

## Pantheon Report

Generated at 2021-03-08 03:11:54 (UTC).

Data path: (*local*) → (*remote*).

Repeated the test of 12 congestion control schemes 3 times.

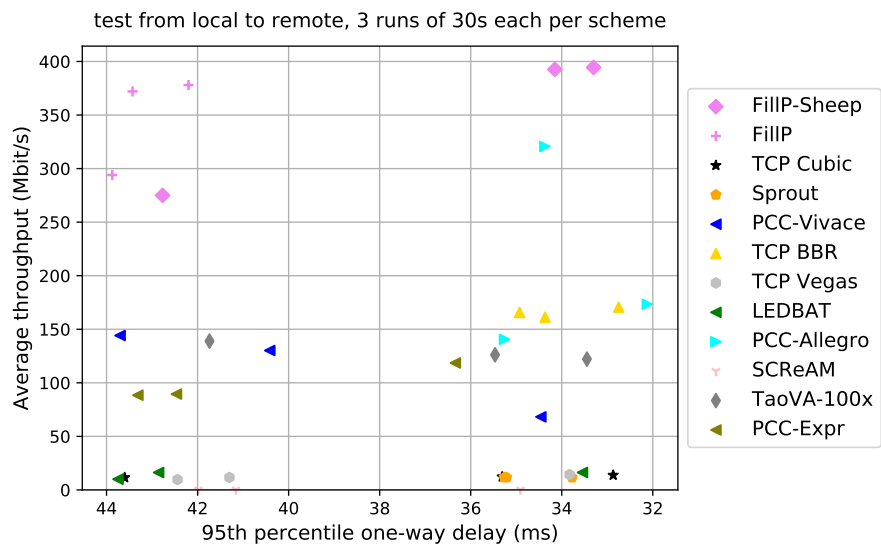
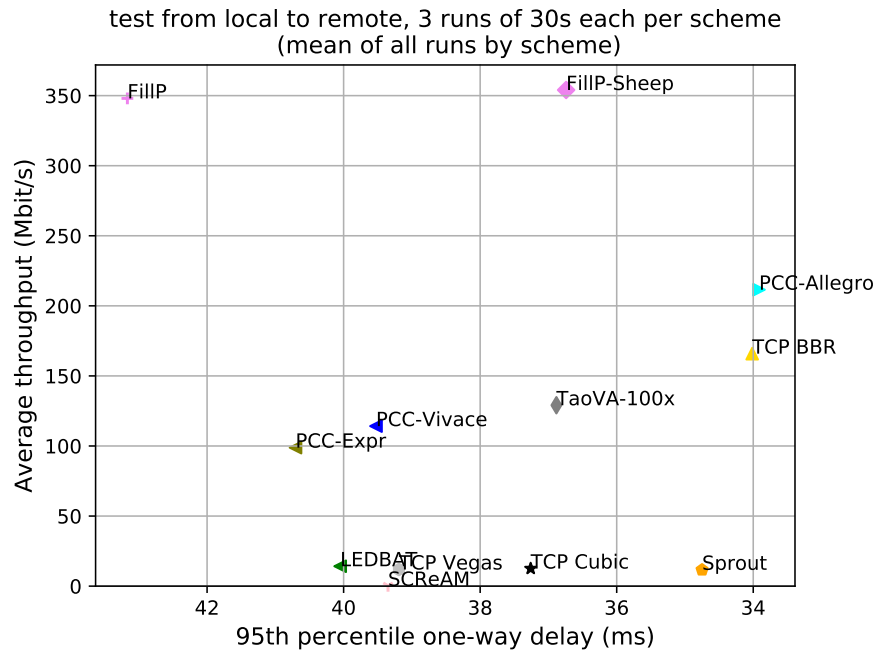
Each test lasted for 30 seconds running 1 flow.

### System info:

```
Linux 5.4.0-1038-aws
net.core.default_qdisc = fq_codel
net.core.rmem_default = 212992
net.core.rmem_max = 212992
net.core.wmem_default = 212992
net.core.wmem_max = 212992
net.ipv4.tcp_rmem = 4096 131072 6291456
net.ipv4.tcp_wmem = 4096 16384 4194304
```

### Git summary:

```
branch: master @ 53321a7ca917f2c286770f1970b3284d87dfdd7e
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfef58e562f4
third_party/indigo @ 463d89b09699a57bfdfbae351646df6a60040b90
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
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-quic @ 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
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	3	165.88	34.02	3.68
TCP Cubic	3	12.54	37.26	0.45
FillP	3	348.03	43.17	5.18
FillP-Sheep	3	354.02	36.74	3.50
LEDBAT	3	14.20	40.05	0.43
PCC-Allegro	3	211.51	33.92	3.02
PCC-Expr	3	98.82	40.71	5.36
SCReAM	3	0.22	39.35	0.00
Sprout	3	11.63	34.75	1.10
TaoVA-100x	3	129.08	36.88	7.73
TCP Vegas	3	11.86	39.19	0.33
PCC-Vivace	3	114.18	39.53	1.77

Run 1: Statistics of TCP BBR

Start at: 2021-03-08 02:39:18

End at: 2021-03-08 02:39:48

# Below is generated by plot.py at 2021-03-08 03:02:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 165.72 Mbit/s

95th percentile per-packet one-way delay: 34.928 ms

Loss rate: 4.82%

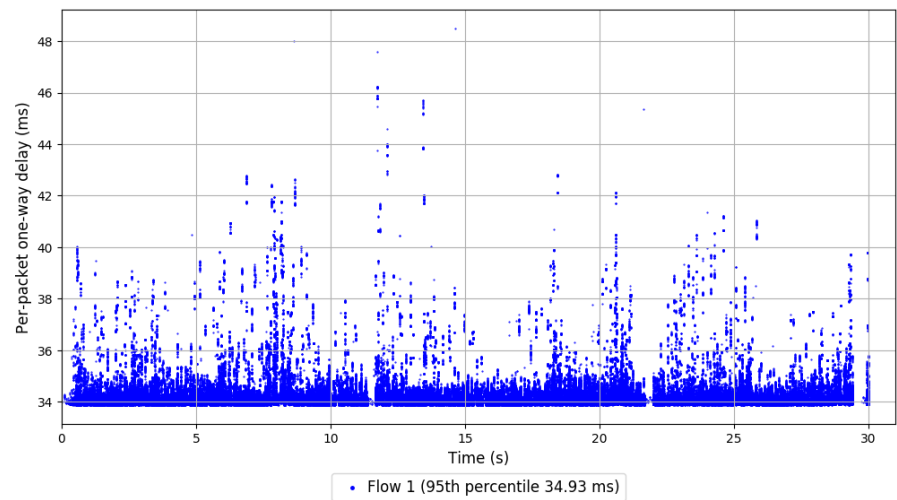
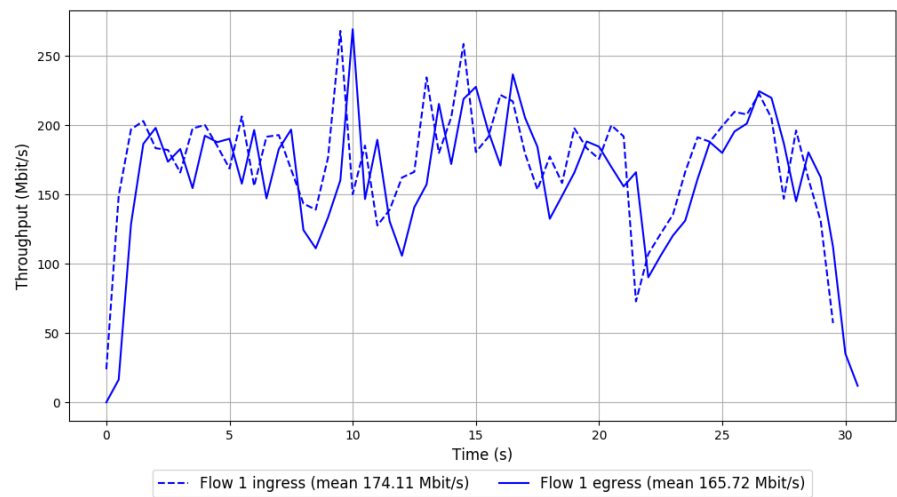
-- Flow 1:

Average throughput: 165.72 Mbit/s

95th percentile per-packet one-way delay: 34.928 ms

Loss rate: 4.82%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2021-03-08 02:48:17

End at: 2021-03-08 02:48:47

# Below is generated by plot.py at 2021-03-08 03:02:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 161.23 Mbit/s

95th percentile per-packet one-way delay: 34.367 ms

Loss rate: 3.01%

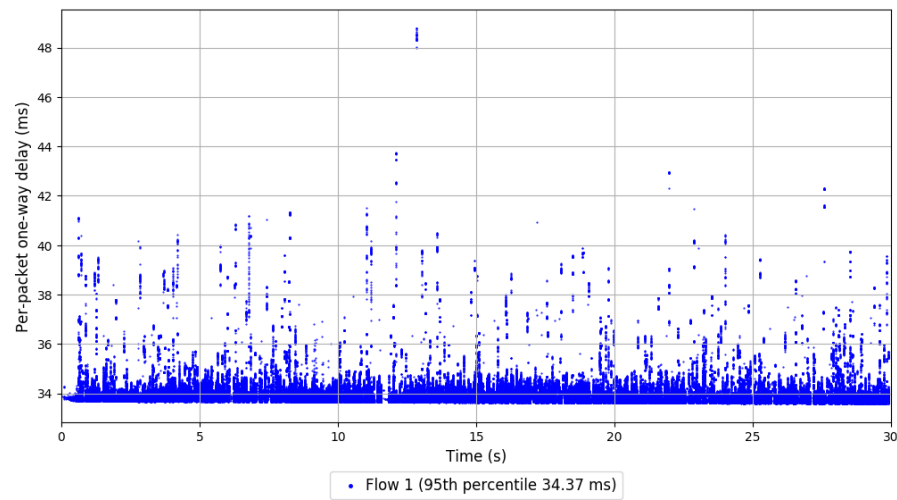
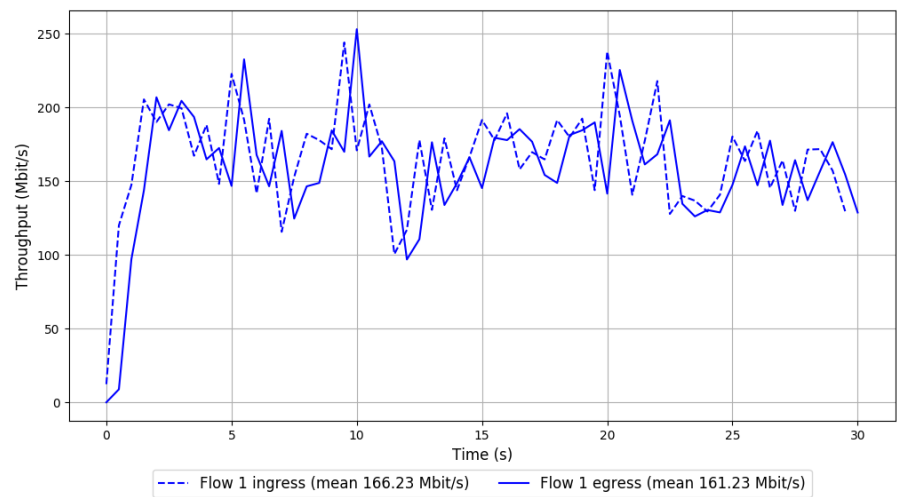
-- Flow 1:

Average throughput: 161.23 Mbit/s

95th percentile per-packet one-way delay: 34.367 ms

Loss rate: 3.01%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2021-03-08 02:57:19

End at: 2021-03-08 02:57:49

# Below is generated by plot.py at 2021-03-08 03:03:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 170.70 Mbit/s

95th percentile per-packet one-way delay: 32.751 ms

Loss rate: 3.22%

-- Flow 1:

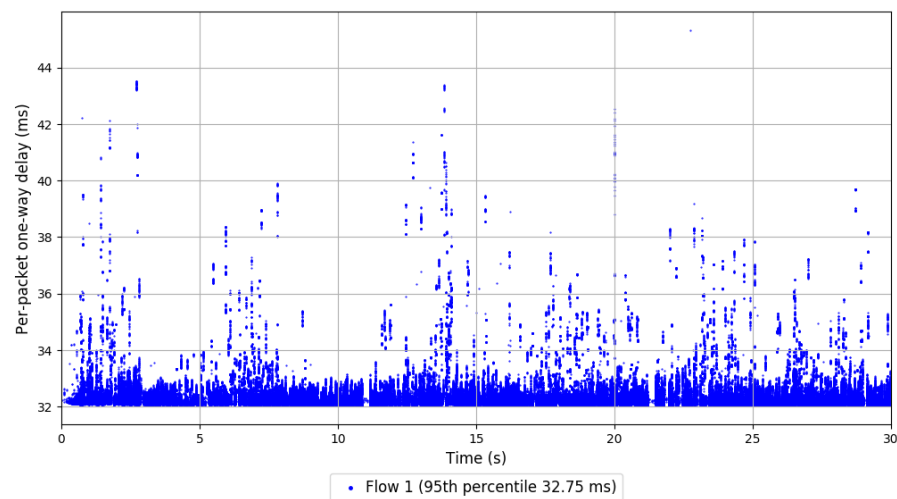
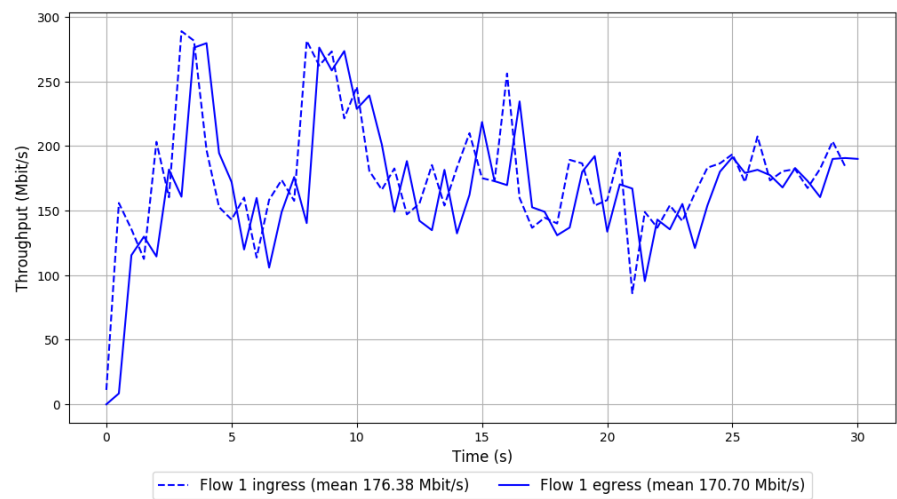
Average throughput: 170.70 Mbit/s

95th percentile per-packet one-way delay: 32.751 ms

Loss rate: 3.22%



Run 3: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2021-03-08 02:37:09

End at: 2021-03-08 02:37:39

# Below is generated by plot.py at 2021-03-08 03:03:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.57 Mbit/s

95th percentile per-packet one-way delay: 43.602 ms

Loss rate: 0.24%

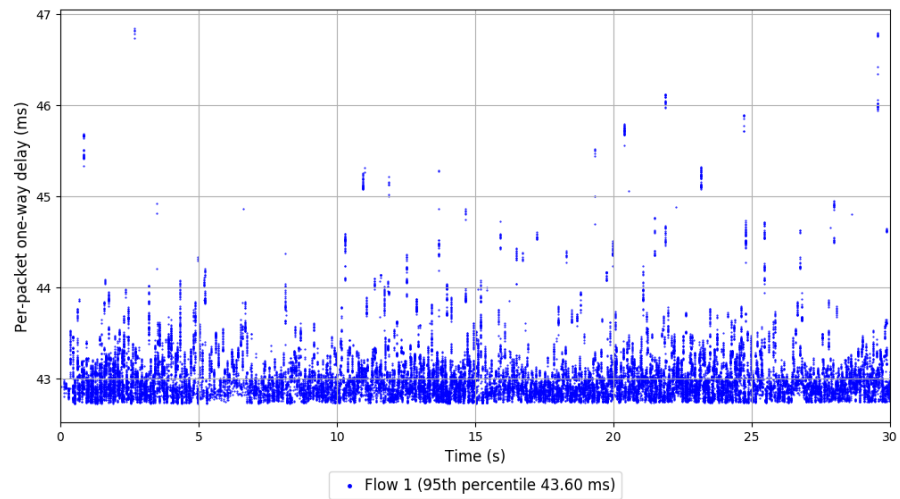
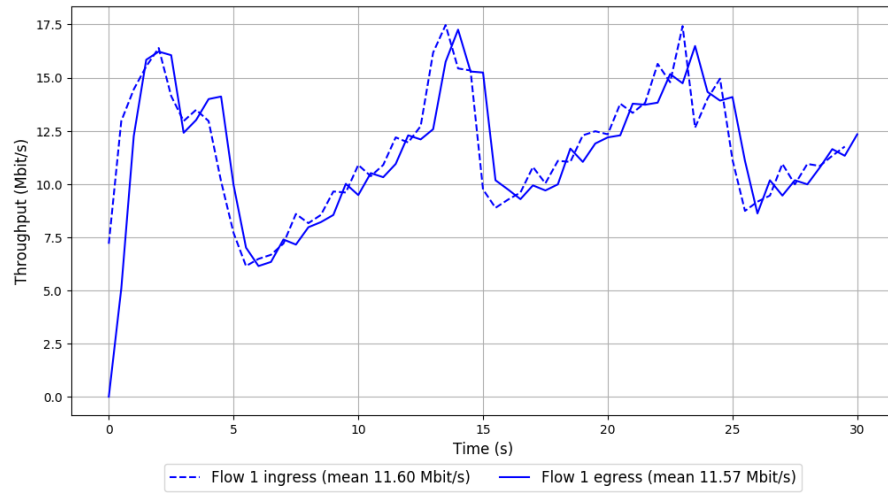
-- Flow 1:

Average throughput: 11.57 Mbit/s

95th percentile per-packet one-way delay: 43.602 ms

Loss rate: 0.24%

# Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2021-03-08 02:46:12

End at: 2021-03-08 02:46:42

# Below is generated by plot.py at 2021-03-08 03:03:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.23 Mbit/s

95th percentile per-packet one-way delay: 35.308 ms

Loss rate: 0.54%

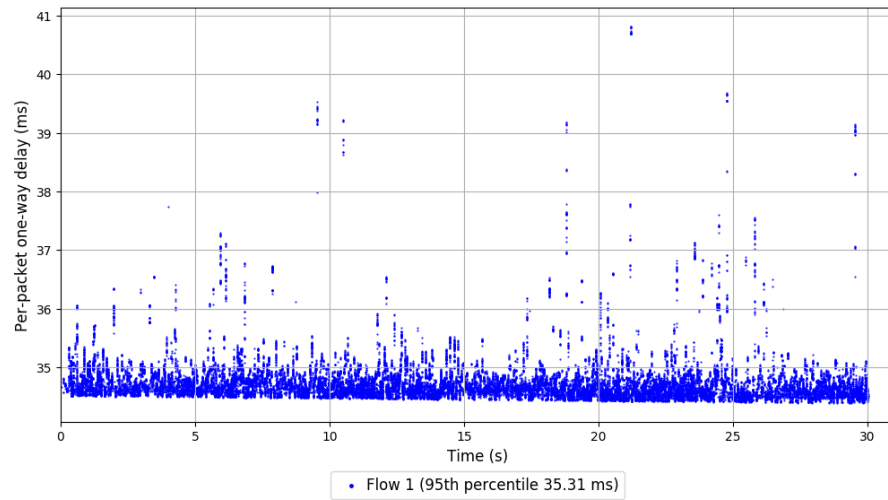
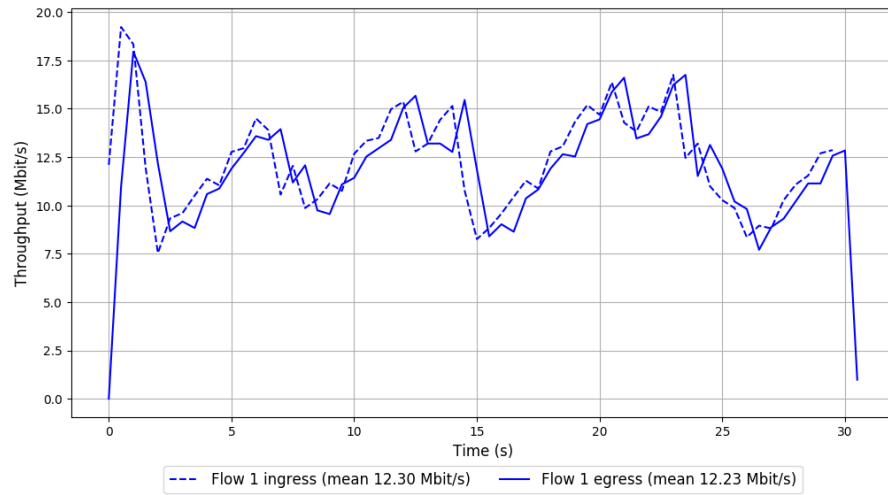
-- Flow 1:

Average throughput: 12.23 Mbit/s

95th percentile per-packet one-way delay: 35.308 ms

Loss rate: 0.54%

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



Run 3: Statistics of TCP Cubic

Start at: 2021-03-08 02:55:11

End at: 2021-03-08 02:55:41

# Below is generated by plot.py at 2021-03-08 03:03:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.81 Mbit/s

95th percentile per-packet one-way delay: 32.870 ms

Loss rate: 0.57%

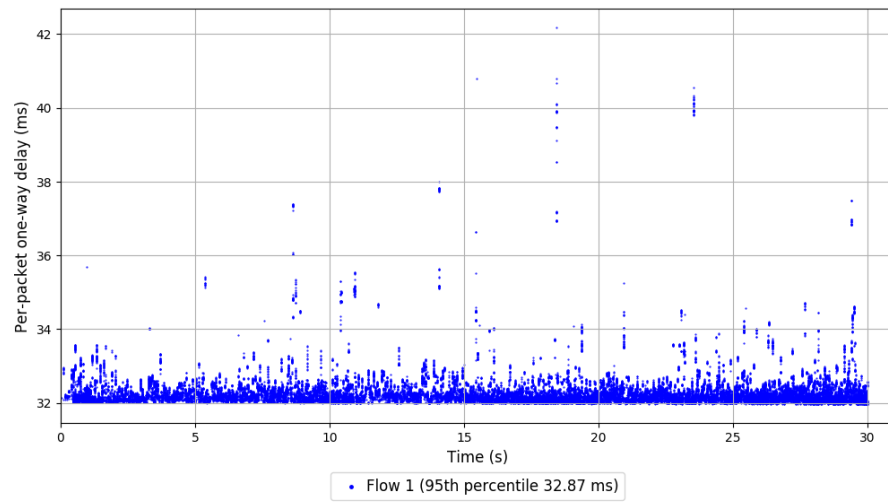
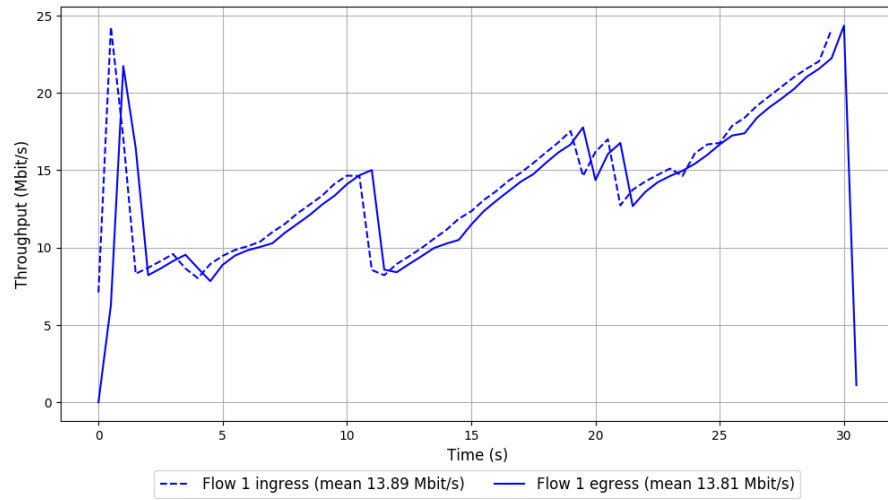
-- Flow 1:

Average throughput: 13.81 Mbit/s

95th percentile per-packet one-way delay: 32.870 ms

Loss rate: 0.57%

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



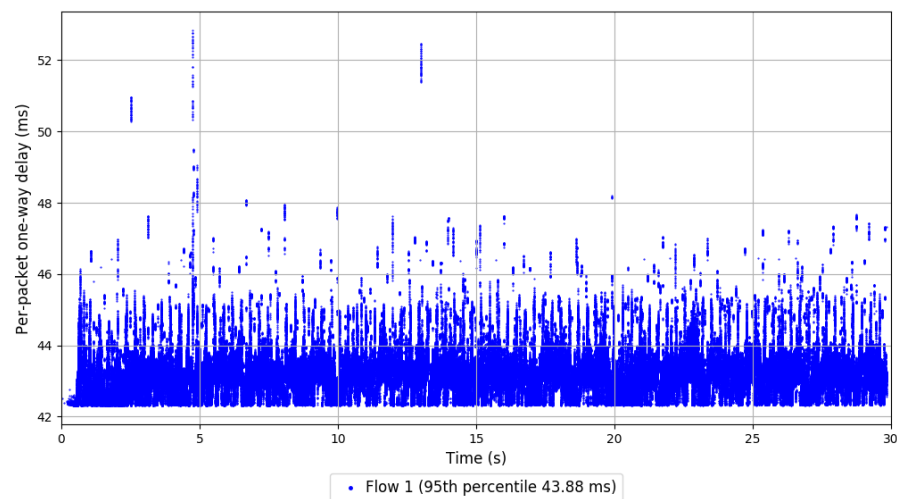
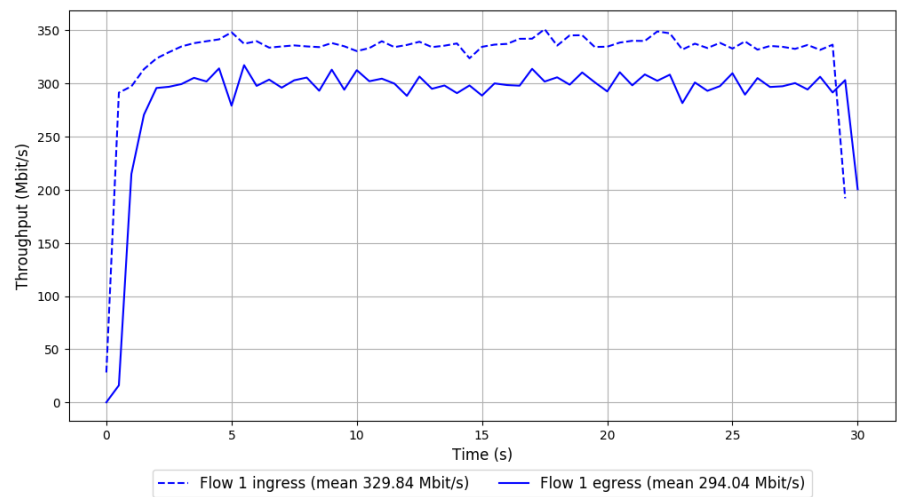
```
Run 1: Statistics of FillP

Start at: 2021-03-08 02:36:18
End at: 2021-03-08 02:36:48

# Below is generated by plot.py at 2021-03-08 03:04:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 294.04 Mbit/s
95th percentile per-packet one-way delay: 43.875 ms
Loss rate: 10.85%
-- Flow 1:
Average throughput: 294.04 Mbit/s
95th percentile per-packet one-way delay: 43.875 ms
Loss rate: 10.85%
```



Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2021-03-08 02:45:19

End at: 2021-03-08 02:45:49

# Below is generated by plot.py at 2021-03-08 03:04:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 372.03 Mbit/s

95th percentile per-packet one-way delay: 43.428 ms

Loss rate: 2.41%

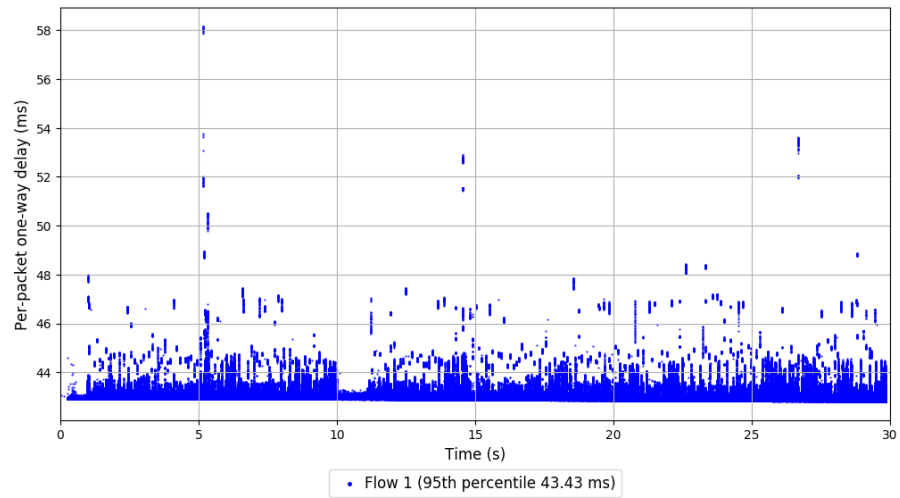
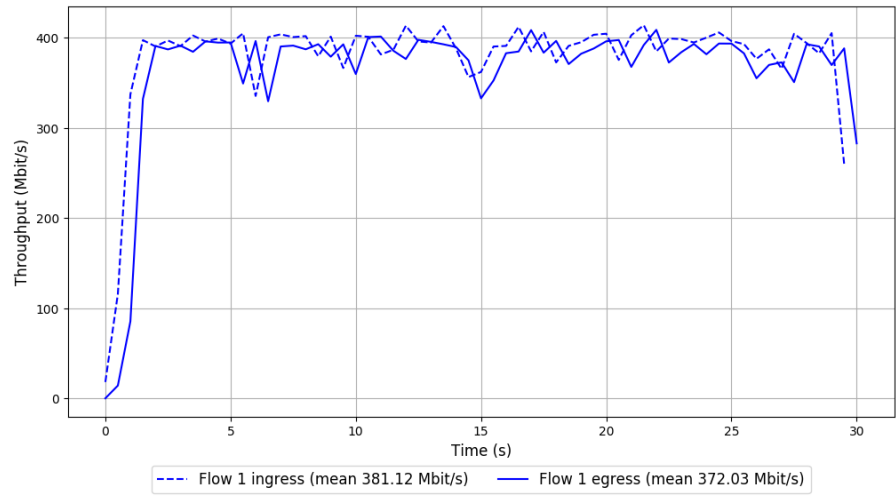
-- Flow 1:

Average throughput: 372.03 Mbit/s

95th percentile per-packet one-way delay: 43.428 ms

Loss rate: 2.41%

## Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2021-03-08 02:54:18

End at: 2021-03-08 02:54:48

# Below is generated by plot.py at 2021-03-08 03:05:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 378.02 Mbit/s

95th percentile per-packet one-way delay: 42.199 ms

Loss rate: 2.27%

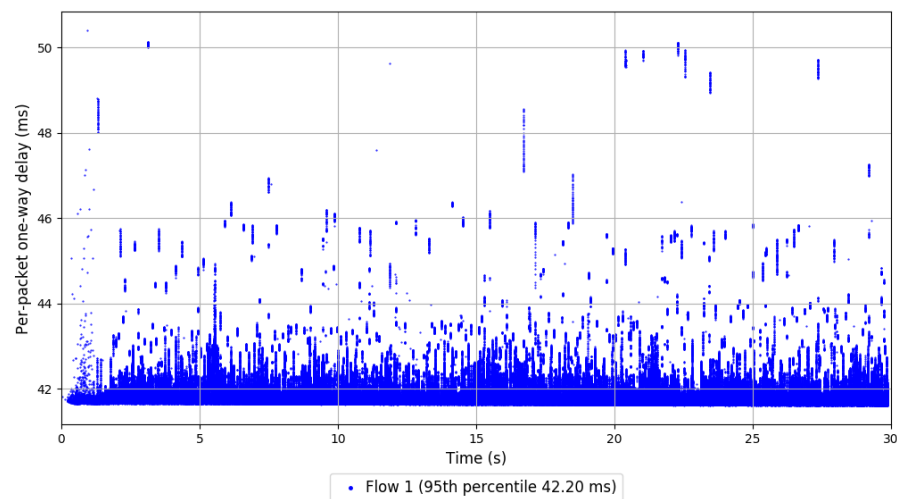
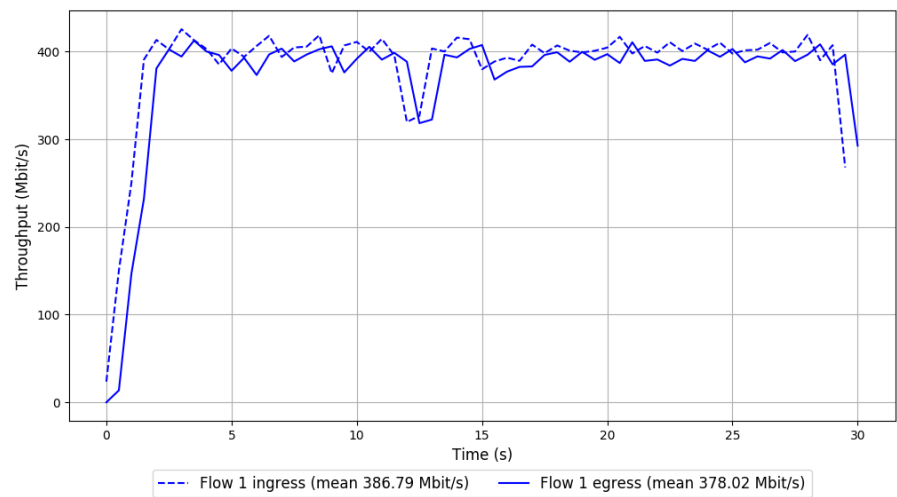
-- Flow 1:

Average throughput: 378.02 Mbit/s

95th percentile per-packet one-way delay: 42.199 ms

Loss rate: 2.27%

Run 3: Report of FillP — Data Link

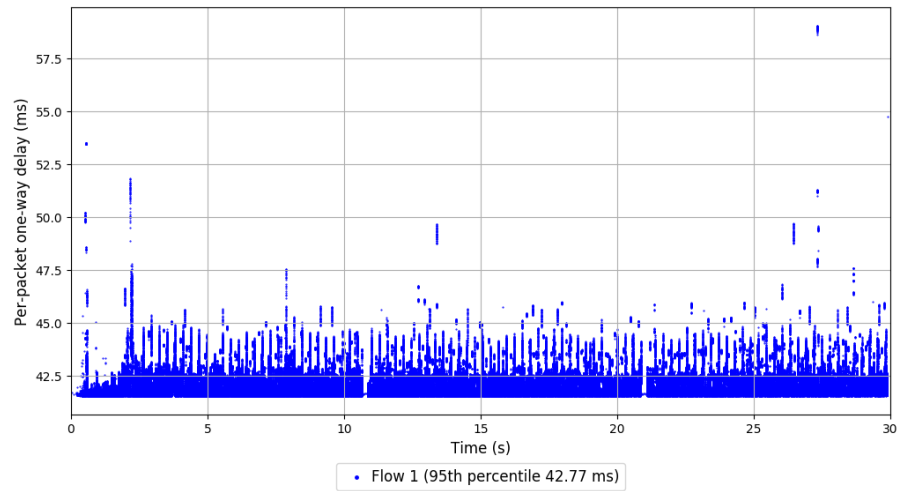
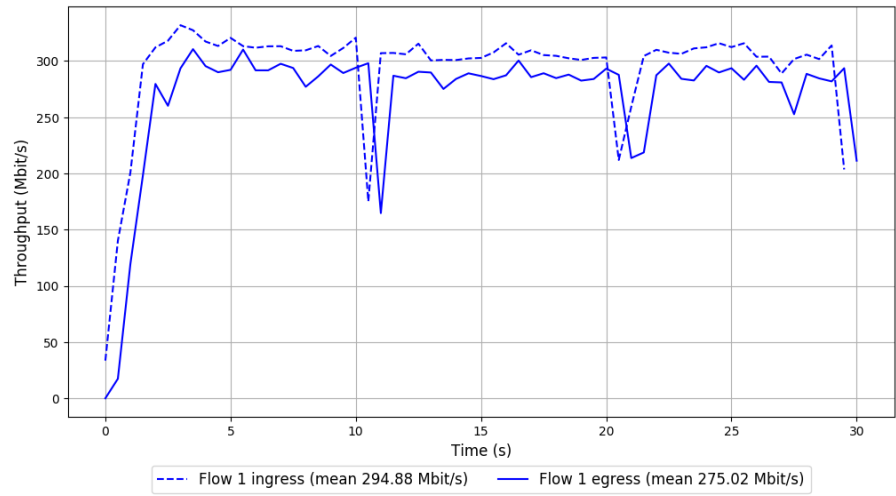


```
Run 1: Statistics of FillP-Sheep

Start at: 2021-03-08 02:35:27
End at: 2021-03-08 02:35:57

# Below is generated by plot.py at 2021-03-08 03:06:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 275.02 Mbit/s
95th percentile per-packet one-way delay: 42.769 ms
Loss rate: 6.70%
-- Flow 1:
Average throughput: 275.02 Mbit/s
95th percentile per-packet one-way delay: 42.769 ms
Loss rate: 6.70%
```

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



Run 2: Statistics of FillP-Sheep

Start at: 2021-03-08 02:44:26

End at: 2021-03-08 02:44:56

# Below is generated by plot.py at 2021-03-08 03:07:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 392.60 Mbit/s

95th percentile per-packet one-way delay: 34.152 ms

Loss rate: 1.62%

-- Flow 1:

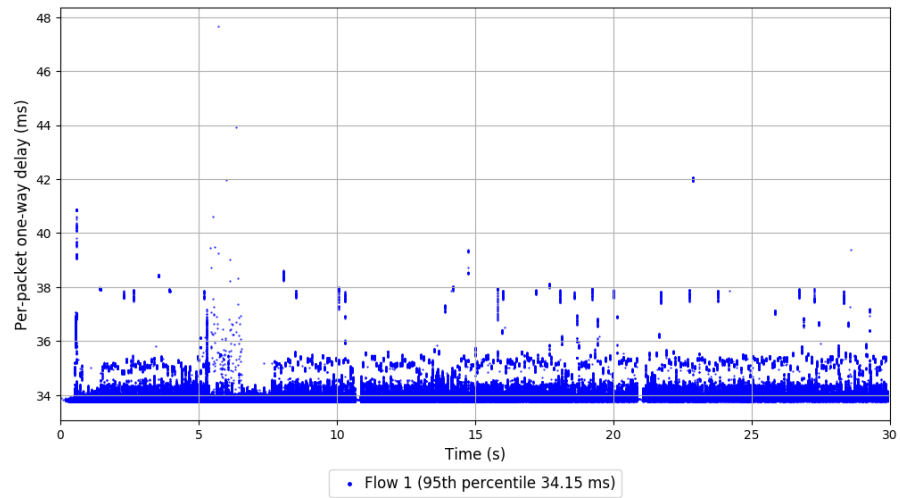
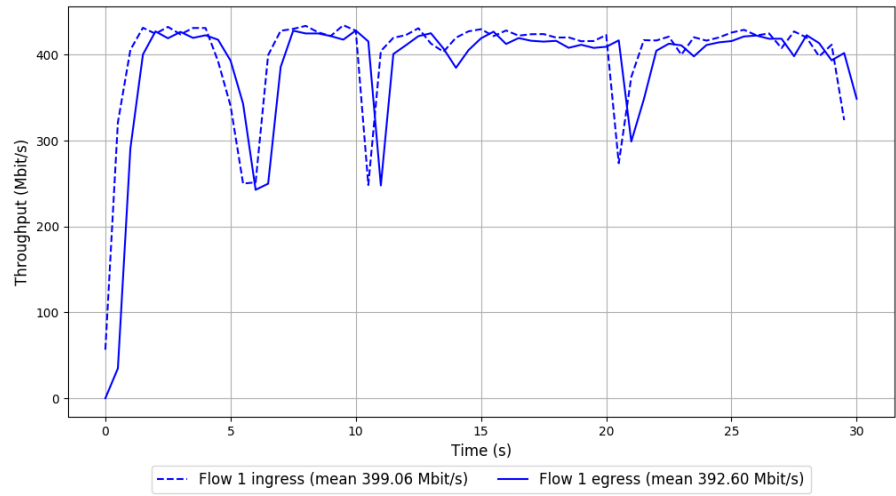
Average throughput: 392.60 Mbit/s

95th percentile per-packet one-way delay: 34.152 ms

Loss rate: 1.62%



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



Run 3: Statistics of FillP-Sheep

Start at: 2021-03-08 02:53:25

End at: 2021-03-08 02:53:55

# Below is generated by plot.py at 2021-03-08 03:07:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 394.44 Mbit/s

95th percentile per-packet one-way delay: 33.301 ms

Loss rate: 2.19%

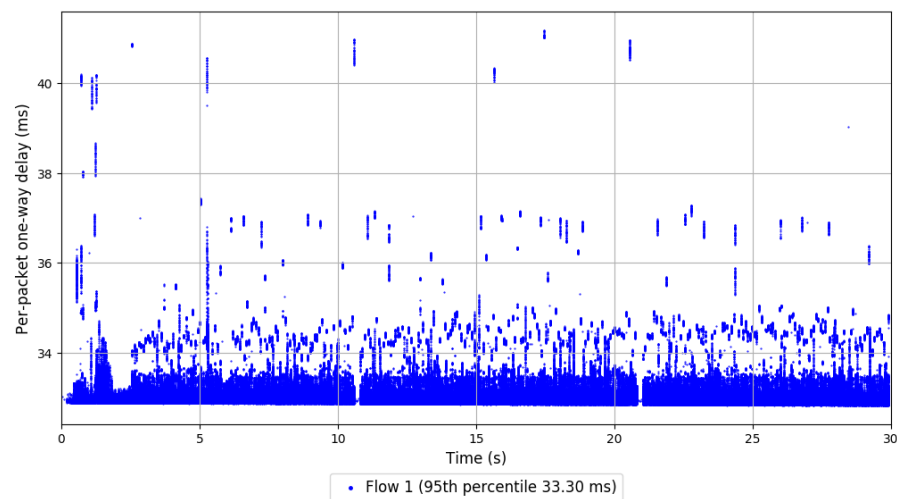
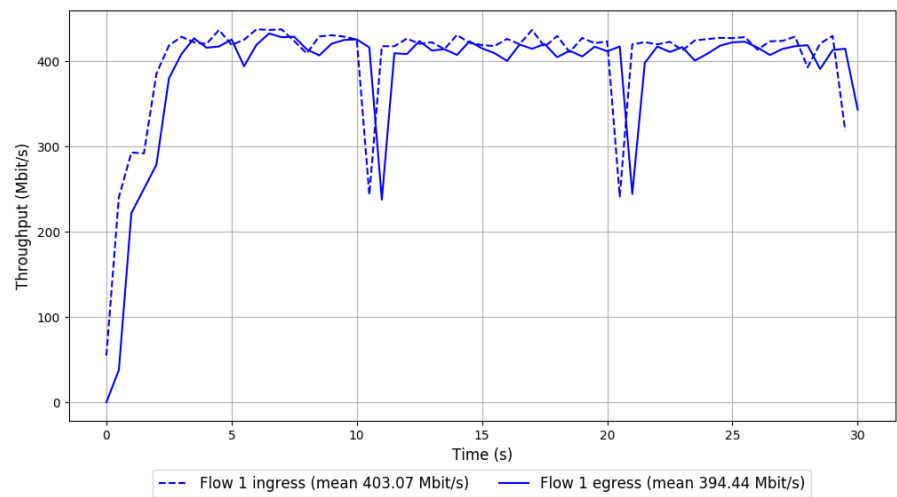
-- Flow 1:

Average throughput: 394.44 Mbit/s

95th percentile per-packet one-way delay: 33.301 ms

Loss rate: 2.19%

Run 3: Report of FillP-Sheep — Data Link

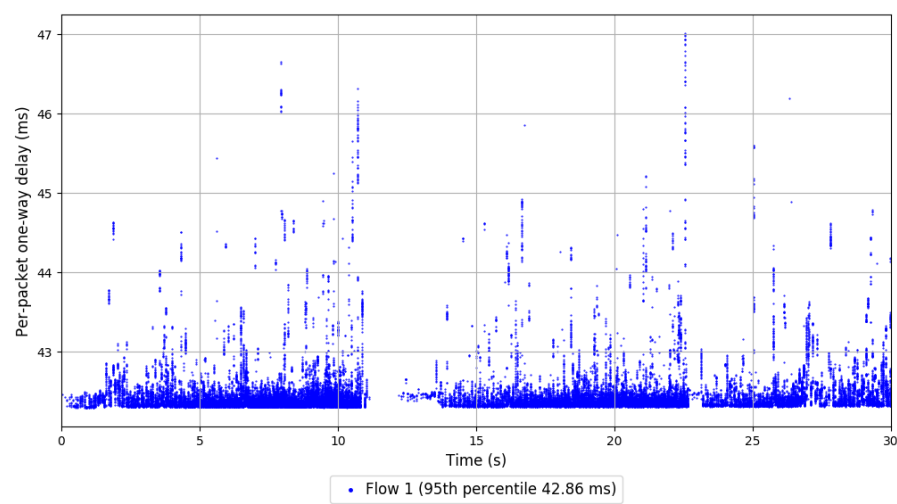
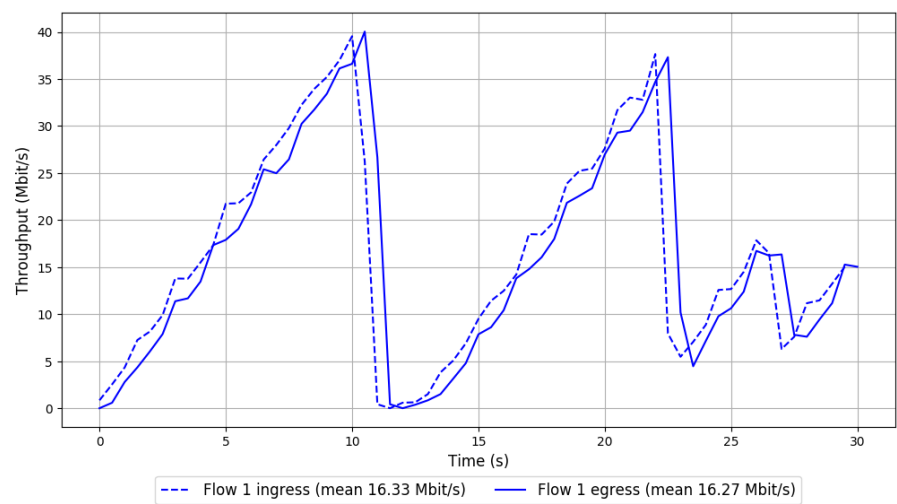


```
Run 1: Statistics of LEDBAT

Start at: 2021-03-08 02:40:43
End at: 2021-03-08 02:41:14

# Below is generated by plot.py at 2021-03-08 03:07:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.27 Mbit/s
95th percentile per-packet one-way delay: 42.857 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 16.27 Mbit/s
95th percentile per-packet one-way delay: 42.857 ms
Loss rate: 0.36%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2021-03-08 02:49:42

End at: 2021-03-08 02:50:12

# Below is generated by plot.py at 2021-03-08 03:07:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 10.01 Mbit/s

95th percentile per-packet one-way delay: 43.749 ms

Loss rate: 0.54%

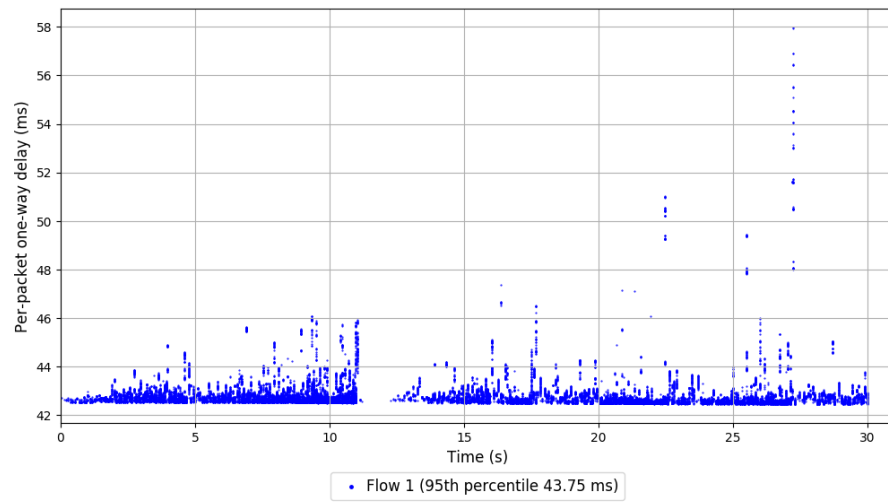
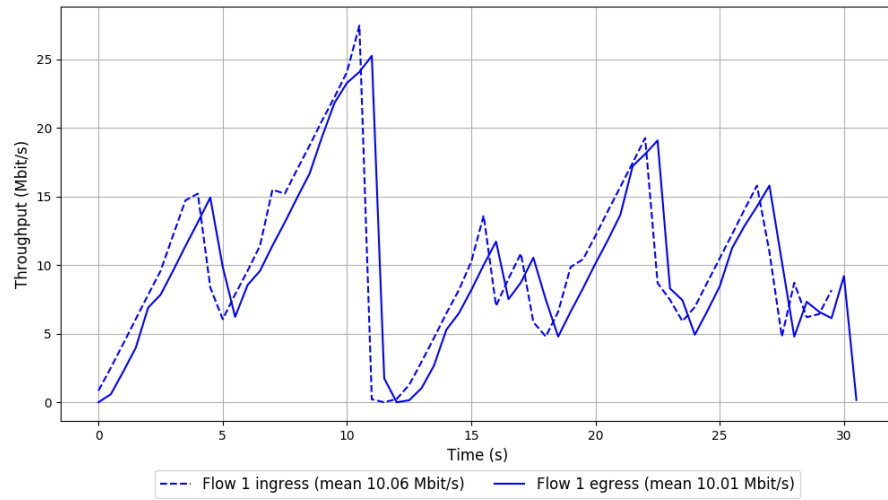
-- Flow 1:

Average throughput: 10.01 Mbit/s

95th percentile per-packet one-way delay: 43.749 ms

Loss rate: 0.54%

## Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2021-03-08 02:58:43

End at: 2021-03-08 02:59:14

# Below is generated by plot.py at 2021-03-08 03:07:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 16.31 Mbit/s

95th percentile per-packet one-way delay: 33.546 ms

Loss rate: 0.39%

-- Flow 1:

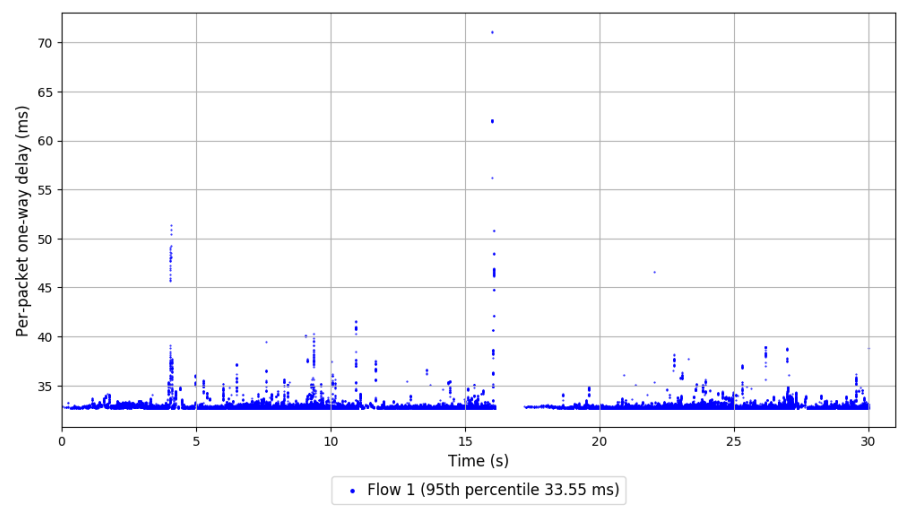
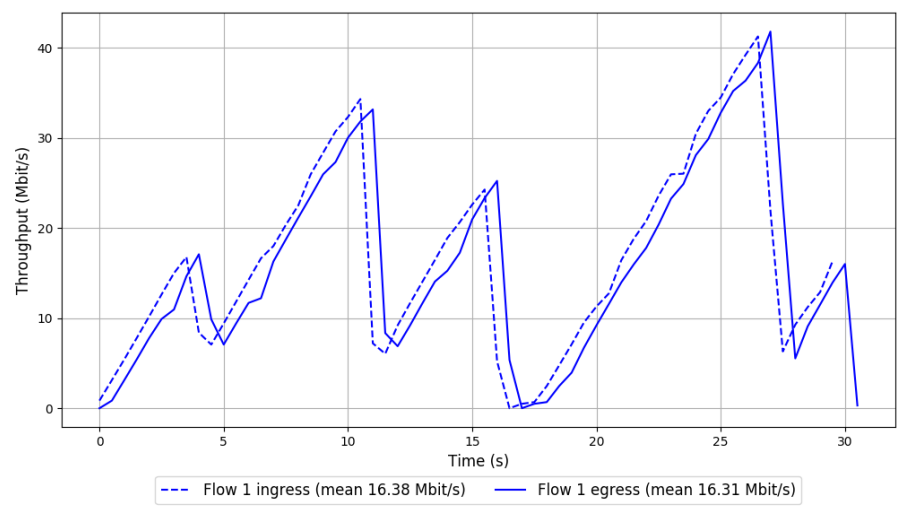
Average throughput: 16.31 Mbit/s

95th percentile per-packet one-way delay: 33.546 ms

Loss rate: 0.39%



Run 3: Report of LEDBAT — Data Link

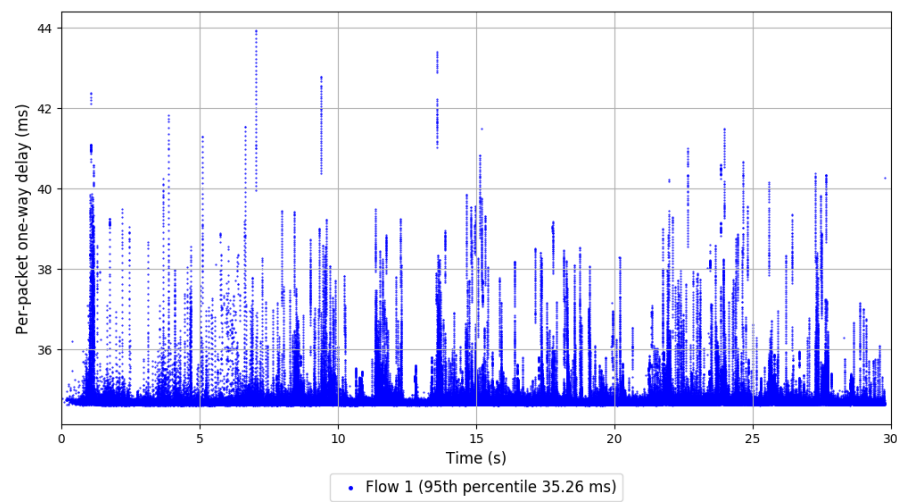
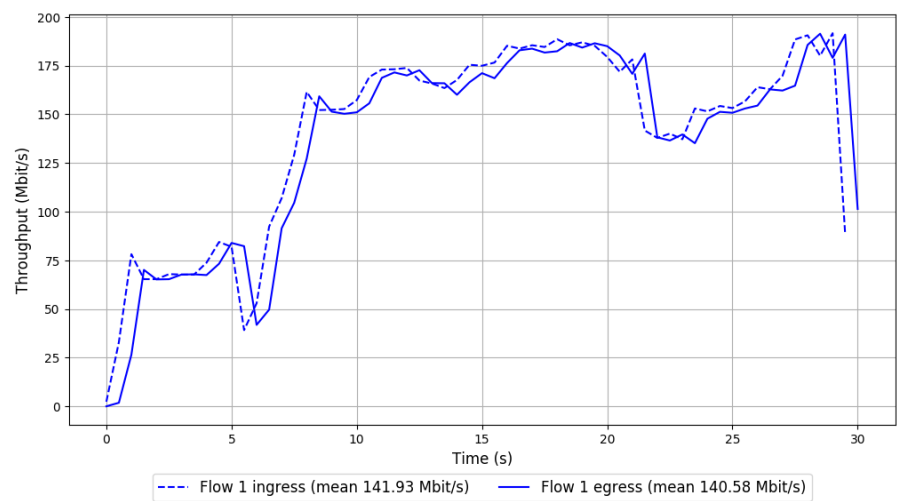


```
Run 1: Statistics of PCC-Allegro

Start at: 2021-03-08 02:41:25
End at: 2021-03-08 02:41:55

# Below is generated by plot.py at 2021-03-08 03:08:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 140.58 Mbit/s
95th percentile per-packet one-way delay: 35.257 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 140.58 Mbit/s
95th percentile per-packet one-way delay: 35.257 ms
Loss rate: 0.94%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2021-03-08 02:50:22

End at: 2021-03-08 02:50:52

# Below is generated by plot.py at 2021-03-08 03:08:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 320.66 Mbit/s

95th percentile per-packet one-way delay: 34.370 ms

Loss rate: 6.27%

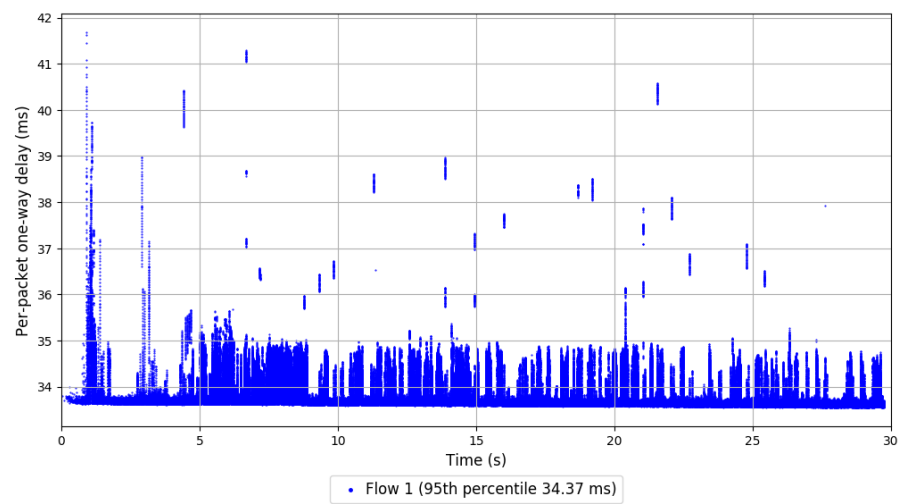
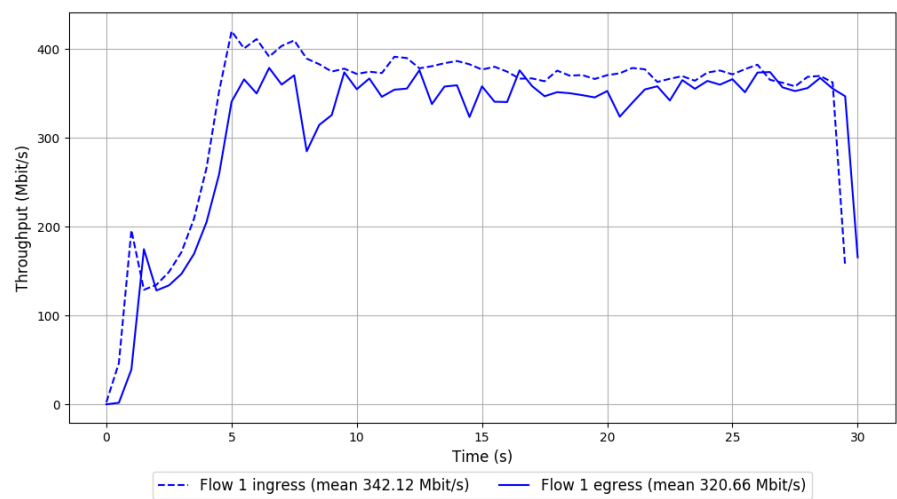
-- Flow 1:

Average throughput: 320.66 Mbit/s

95th percentile per-packet one-way delay: 34.370 ms

Loss rate: 6.27%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2021-03-08 02:59:24

End at: 2021-03-08 02:59:54

# Below is generated by plot.py at 2021-03-08 03:08:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 173.30 Mbit/s

95th percentile per-packet one-way delay: 32.119 ms

Loss rate: 1.85%

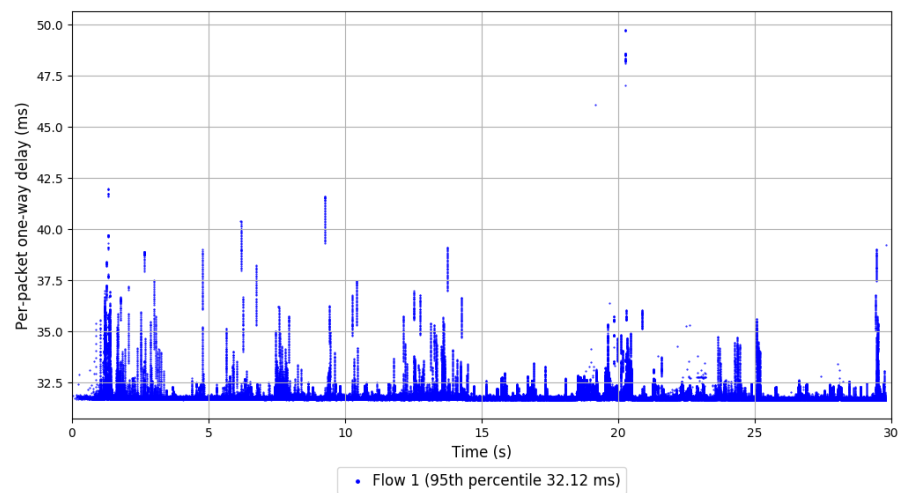
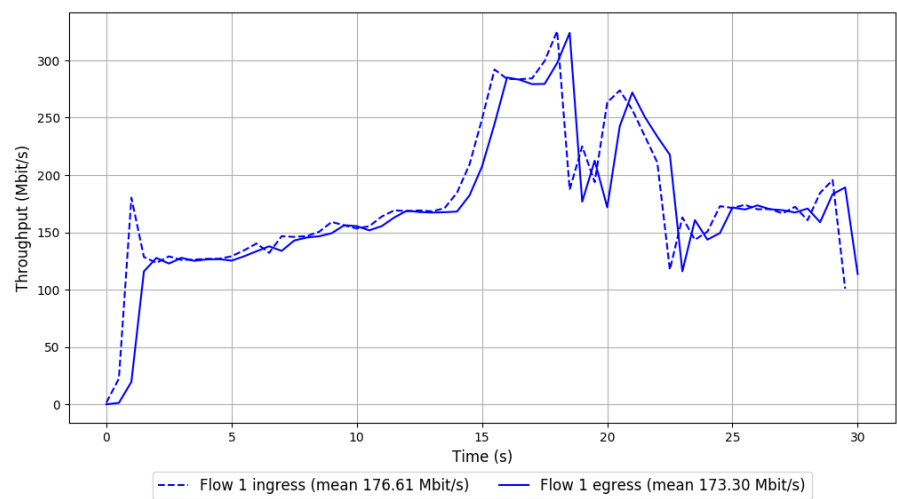
-- Flow 1:

Average throughput: 173.30 Mbit/s

95th percentile per-packet one-way delay: 32.119 ms

Loss rate: 1.85%

Run 3: Report of PCC-Allegro — Data Link



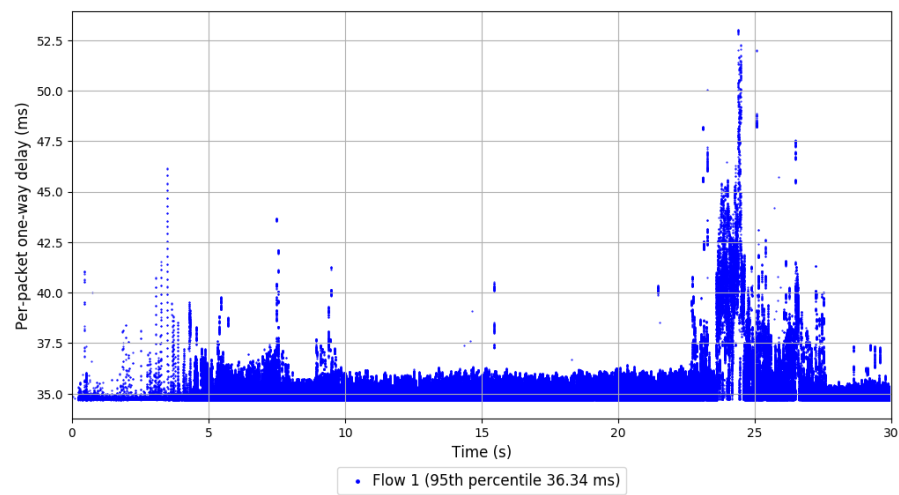
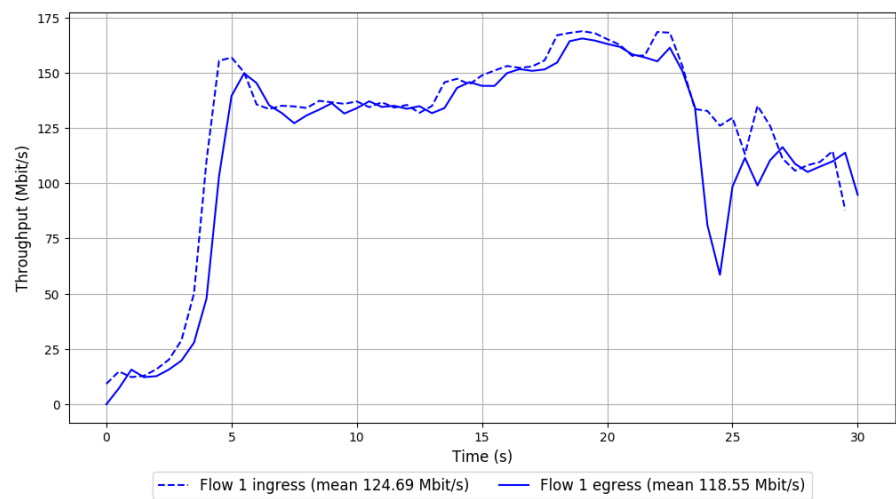
```
Run 1: Statistics of PCC-Expr

Start at: 2021-03-08 02:43:38
End at: 2021-03-08 02:44:08

# Below is generated by plot.py at 2021-03-08 03:09:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 118.55 Mbit/s
95th percentile per-packet one-way delay: 36.338 ms
Loss rate: 4.95%
-- Flow 1:
Average throughput: 118.55 Mbit/s
95th percentile per-packet one-way delay: 36.338 ms
Loss rate: 4.95%
```



Run 1: Report of PCC-Expr — Data Link

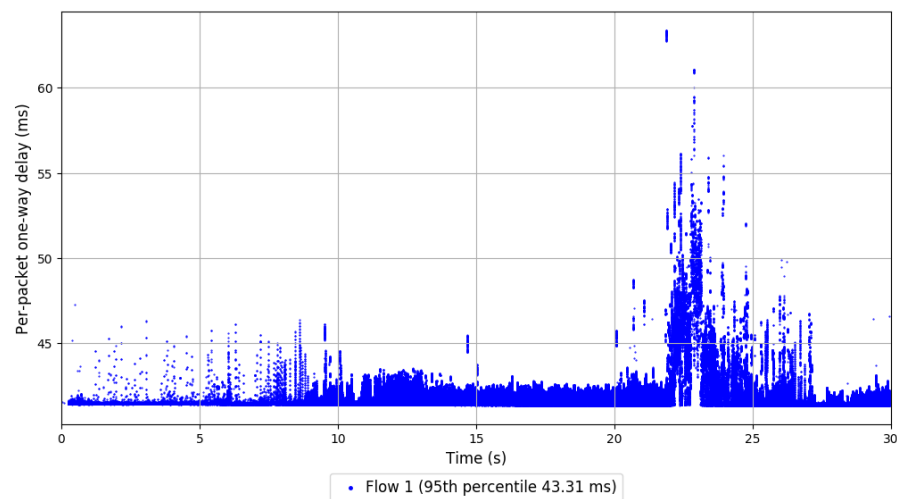
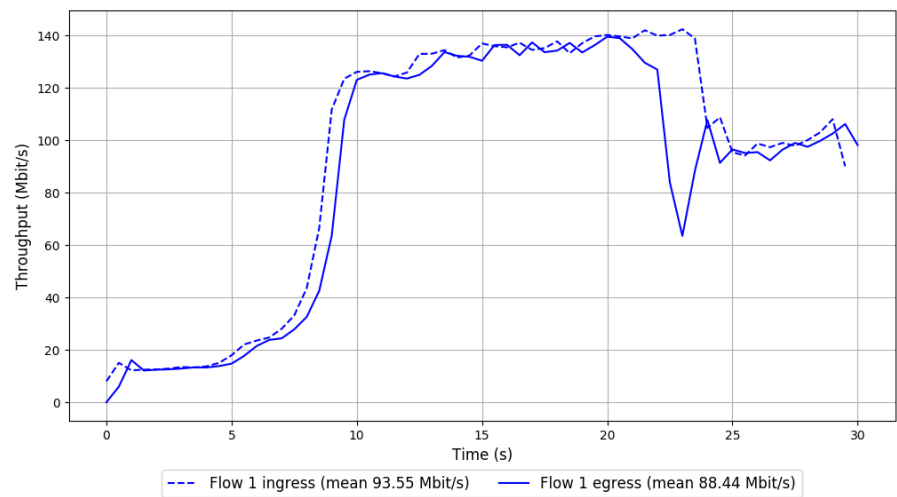


```
Run 2: Statistics of PCC-Expr

Start at: 2021-03-08 02:52:39
End at: 2021-03-08 02:53:09

# Below is generated by plot.py at 2021-03-08 03:09:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.44 Mbit/s
95th percentile per-packet one-way delay: 43.312 ms
Loss rate: 5.45%
-- Flow 1:
Average throughput: 88.44 Mbit/s
95th percentile per-packet one-way delay: 43.312 ms
Loss rate: 5.45%
```

Run 2: Report of PCC-Expr — Data Link

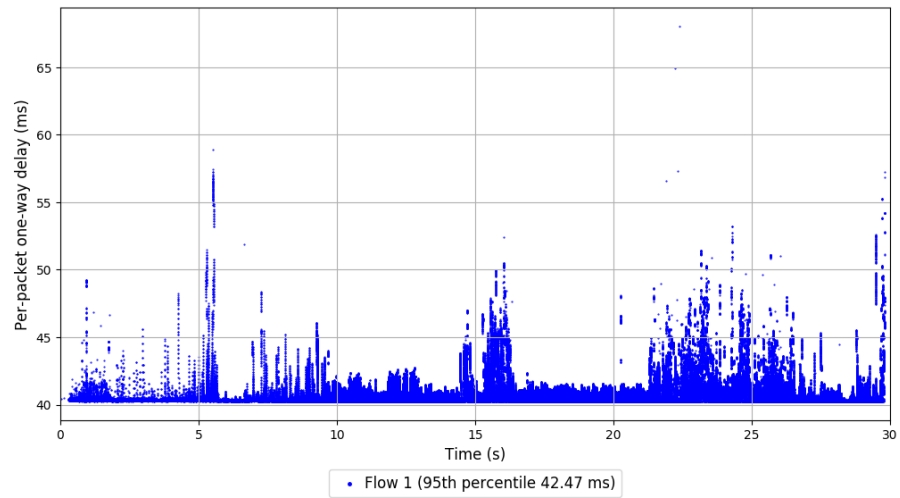
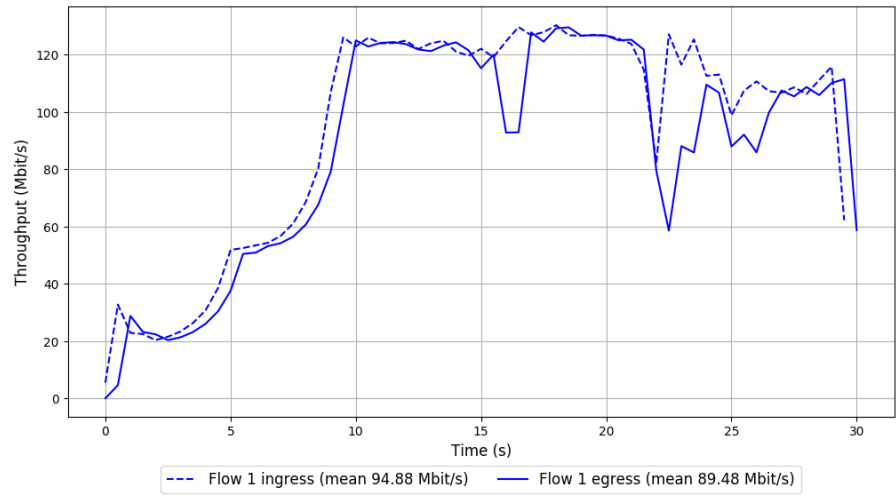


```
Run 3: Statistics of PCC-Expr

Start at: 2021-03-08 03:01:39
End at: 2021-03-08 03:02:09

# Below is generated by plot.py at 2021-03-08 03:10:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.48 Mbit/s
95th percentile per-packet one-way delay: 42.465 ms
Loss rate: 5.69%
-- Flow 1:
Average throughput: 89.48 Mbit/s
95th percentile per-packet one-way delay: 42.465 ms
Loss rate: 5.69%
```

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

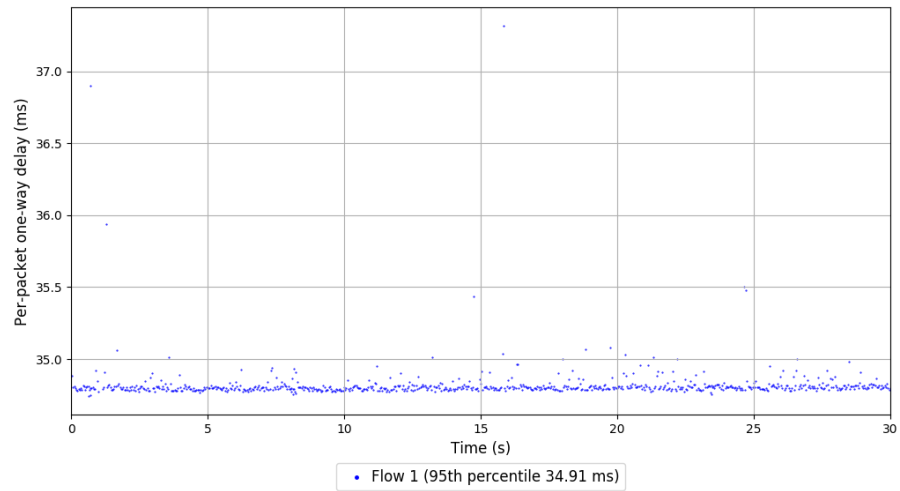
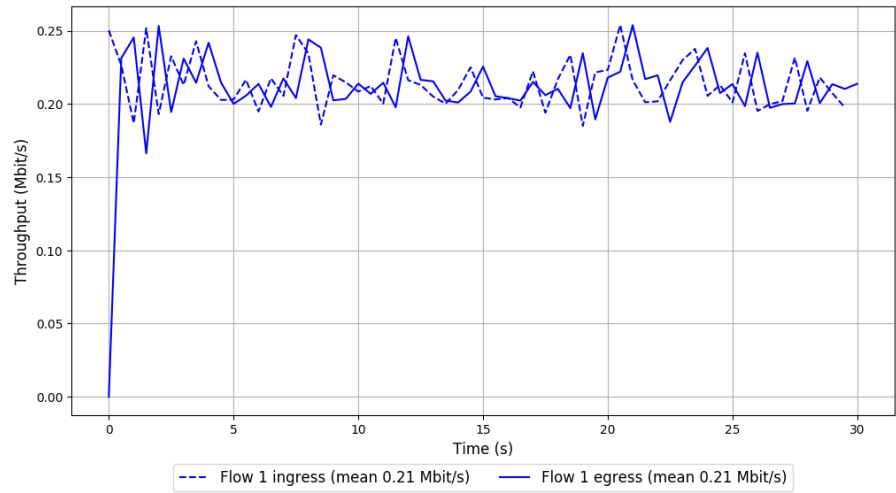


```
Run 1: Statistics of SCReAM

Start at: 2021-03-08 02:42:09
End at: 2021-03-08 02:42:39

# Below is generated by plot.py at 2021-03-08 03:10:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 34.907 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 34.907 ms
Loss rate: 0.00%
```

# Run 1: Report of SReAM — Data Link



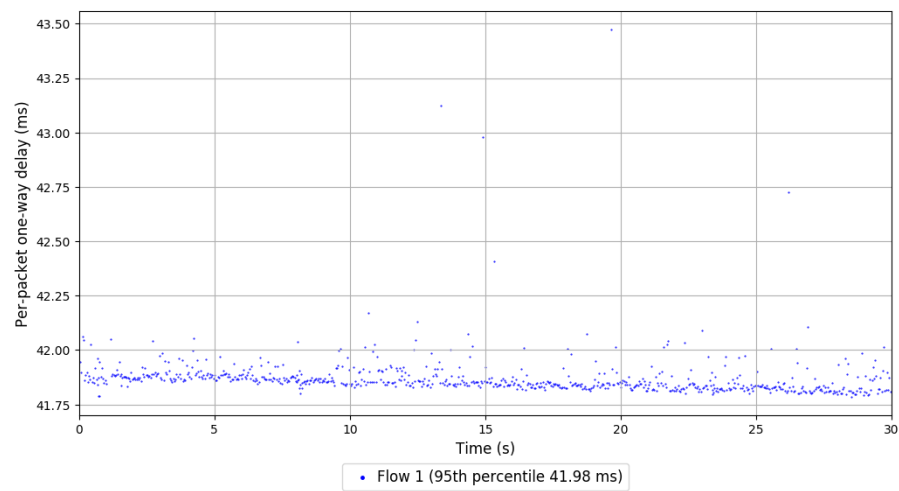
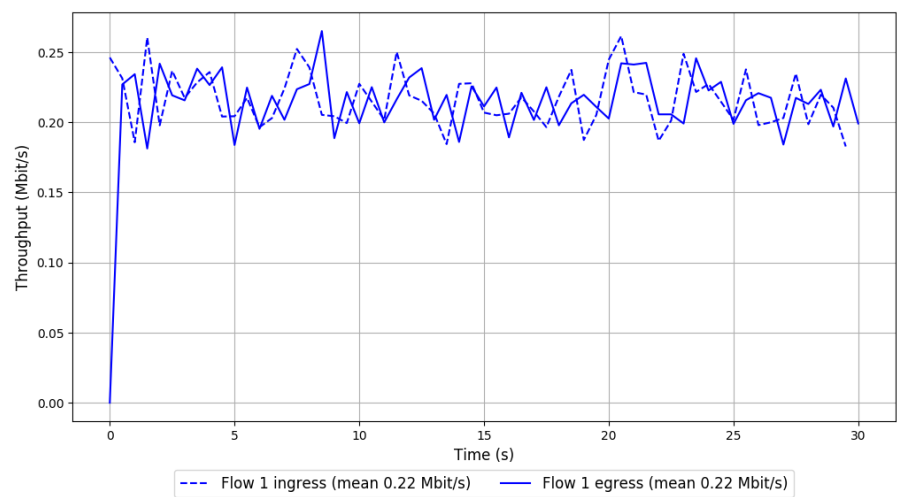
```
Run 2: Statistics of SCReAM

Start at: 2021-03-08 02:51:10
End at: 2021-03-08 02:51:40

# Below is generated by plot.py at 2021-03-08 03:10:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 41.984 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 41.984 ms
Loss rate: 0.00%
```



Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2021-03-08 03:00:11

End at: 2021-03-08 03:00:41

# Below is generated by plot.py at 2021-03-08 03:10:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 41.158 ms

Loss rate: 0.00%

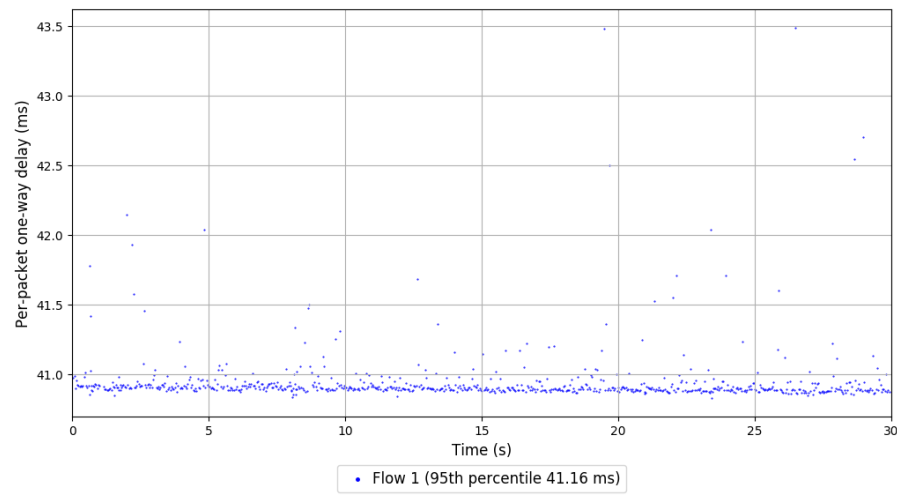
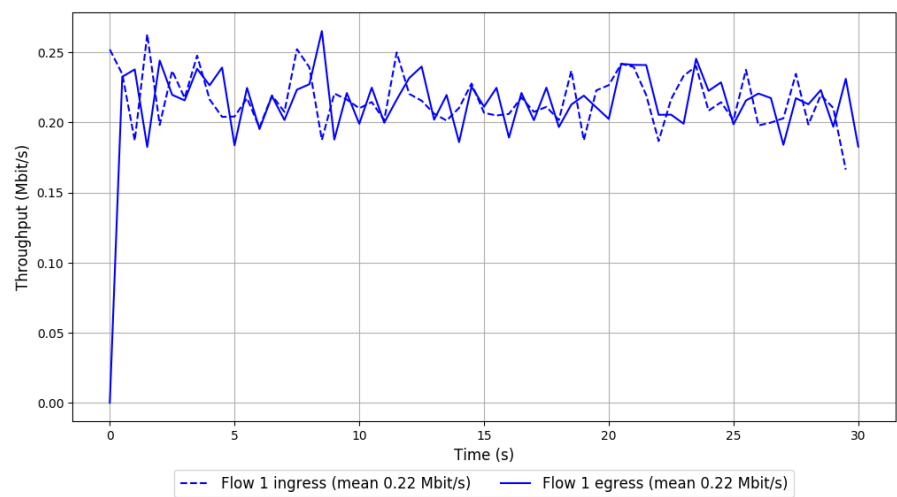
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 41.158 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2021-03-08 02:37:49

End at: 2021-03-08 02:38:19

# Below is generated by plot.py at 2021-03-08 03:10:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.65 Mbit/s

95th percentile per-packet one-way delay: 35.264 ms

Loss rate: 0.68%

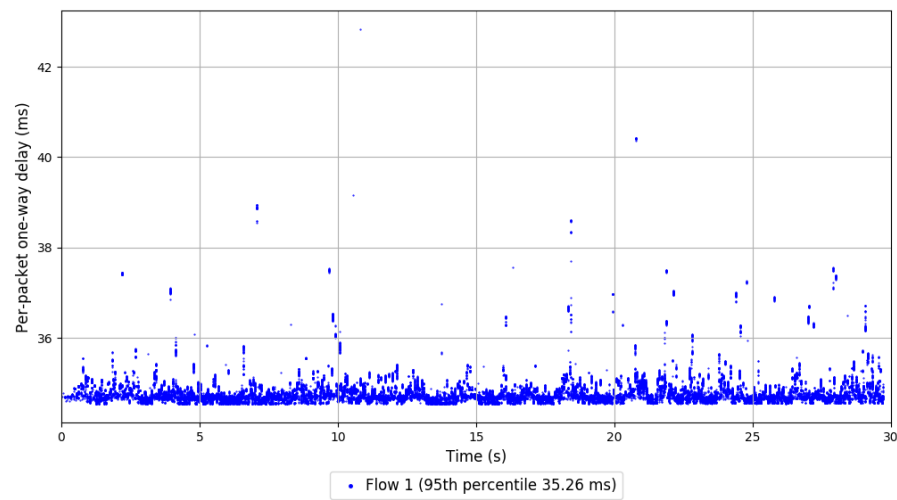
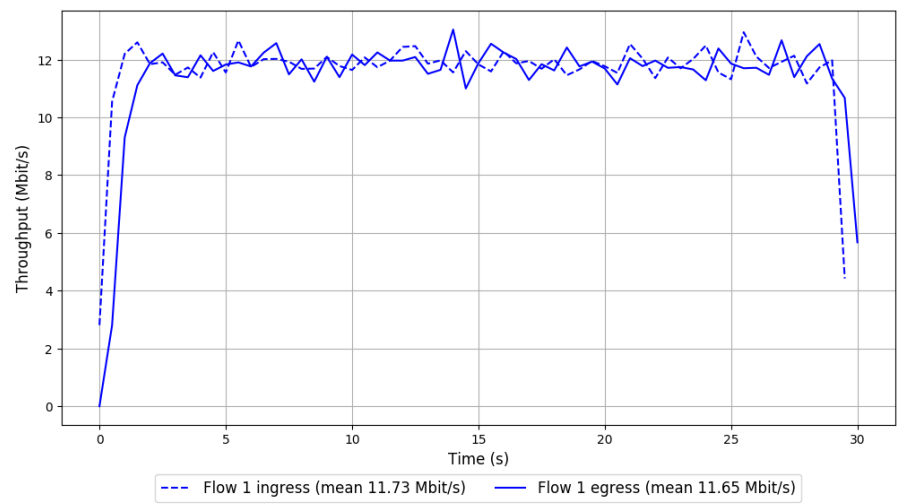
-- Flow 1:

Average throughput: 11.65 Mbit/s

95th percentile per-packet one-way delay: 35.264 ms

Loss rate: 0.68%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2021-03-08 02:46:52

End at: 2021-03-08 02:47:22

# Below is generated by plot.py at 2021-03-08 03:10:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.64 Mbit/s

95th percentile per-packet one-way delay: 35.211 ms

Loss rate: 1.31%

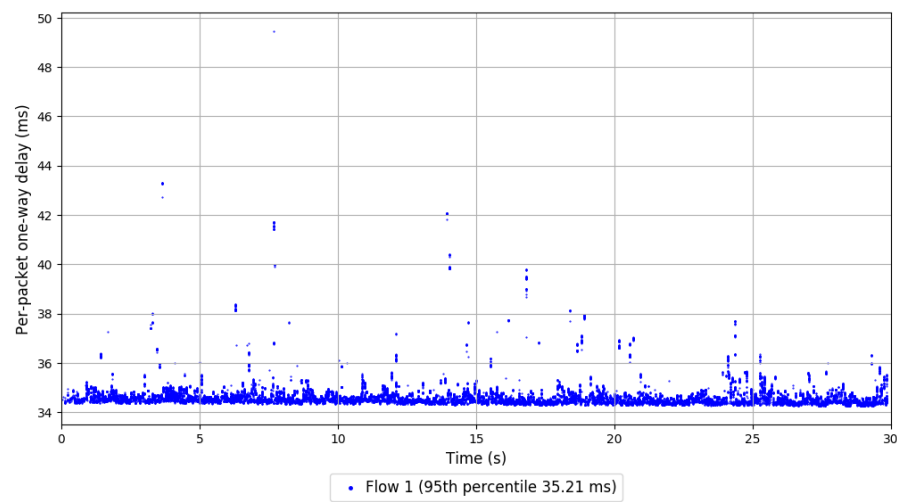
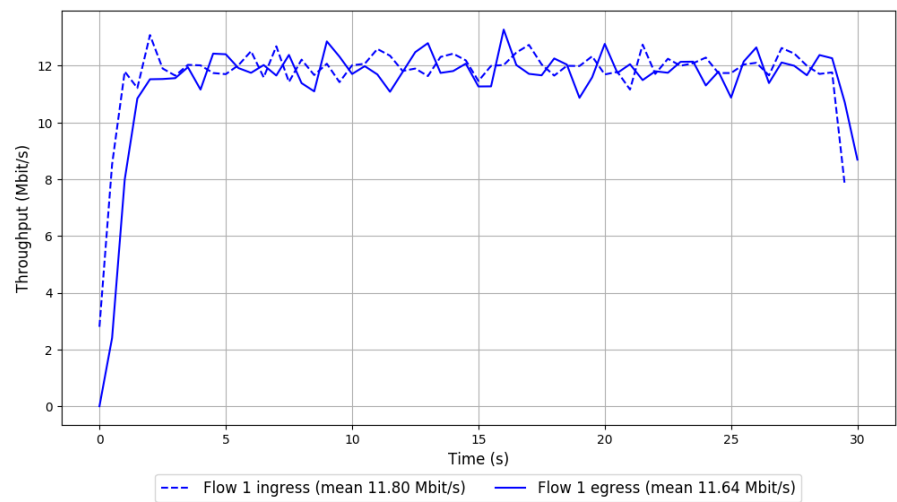
-- Flow 1:

Average throughput: 11.64 Mbit/s

95th percentile per-packet one-way delay: 35.211 ms

Loss rate: 1.31%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2021-03-08 02:55:52

End at: 2021-03-08 02:56:22

# Below is generated by plot.py at 2021-03-08 03:10:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.59 Mbit/s

95th percentile per-packet one-way delay: 33.773 ms

Loss rate: 1.30%

-- Flow 1:

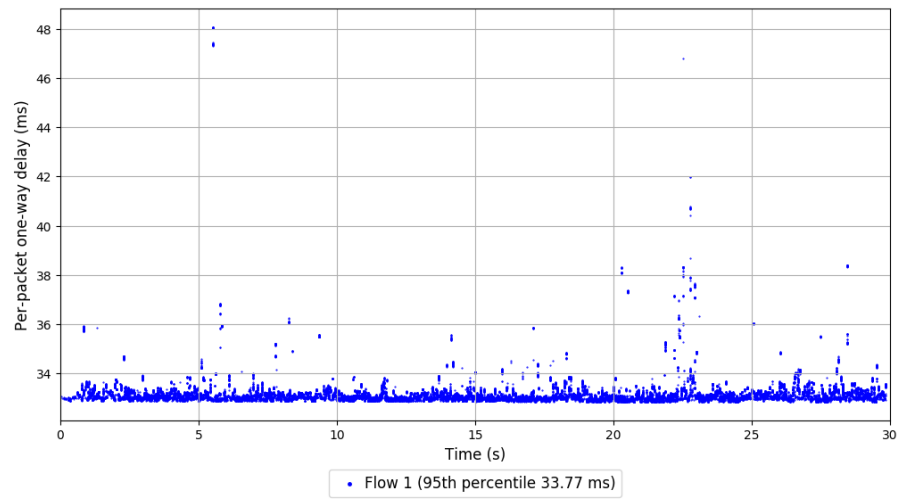
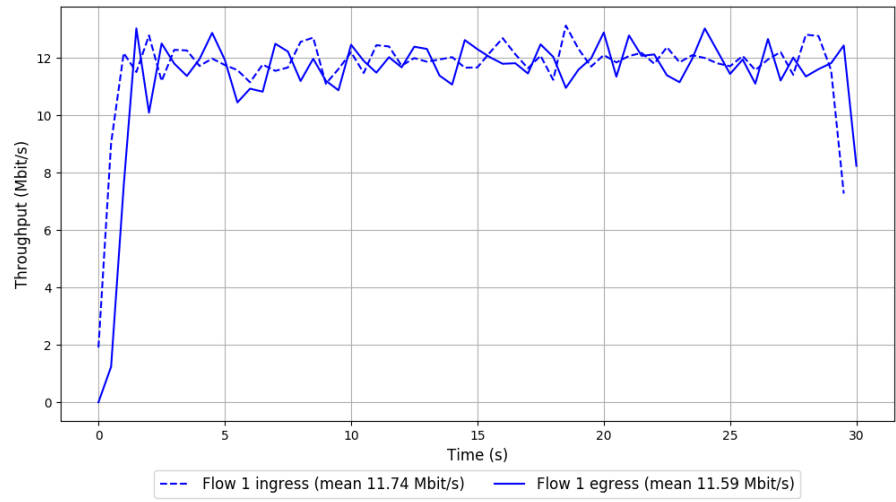
Average throughput: 11.59 Mbit/s

95th percentile per-packet one-way delay: 33.773 ms

Loss rate: 1.30%



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

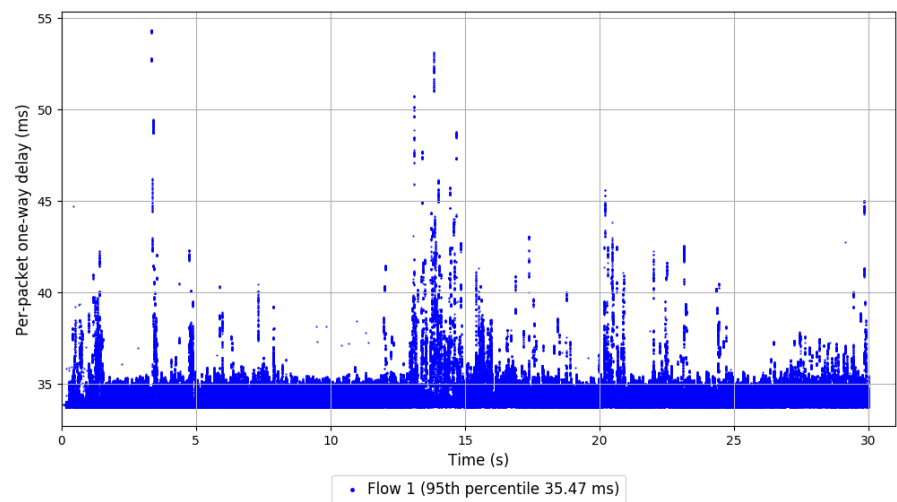
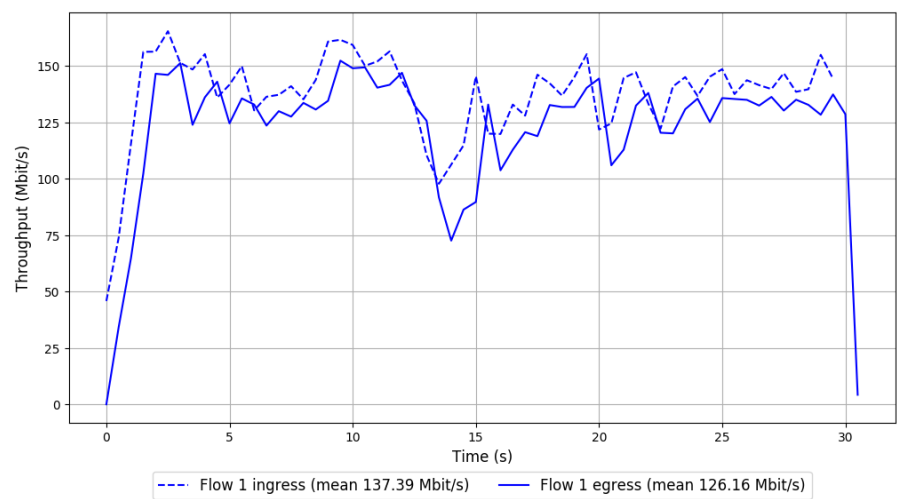


```
Run 1: Statistics of TaoVA-100x

Start at: 2021-03-08 02:42:49
End at: 2021-03-08 02:43:19

# Below is generated by plot.py at 2021-03-08 03:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 126.16 Mbit/s
95th percentile per-packet one-way delay: 35.465 ms
Loss rate: 8.17%
-- Flow 1:
Average throughput: 126.16 Mbit/s
95th percentile per-packet one-way delay: 35.465 ms
Loss rate: 8.17%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2021-03-08 02:51:49

End at: 2021-03-08 02:52:19

# Below is generated by plot.py at 2021-03-08 03:10:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 138.94 Mbit/s

95th percentile per-packet one-way delay: 41.738 ms

Loss rate: 8.26%

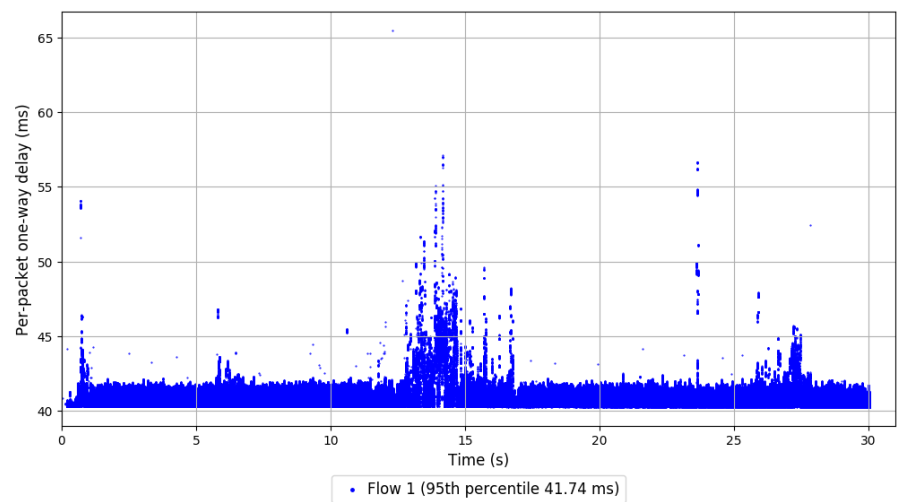
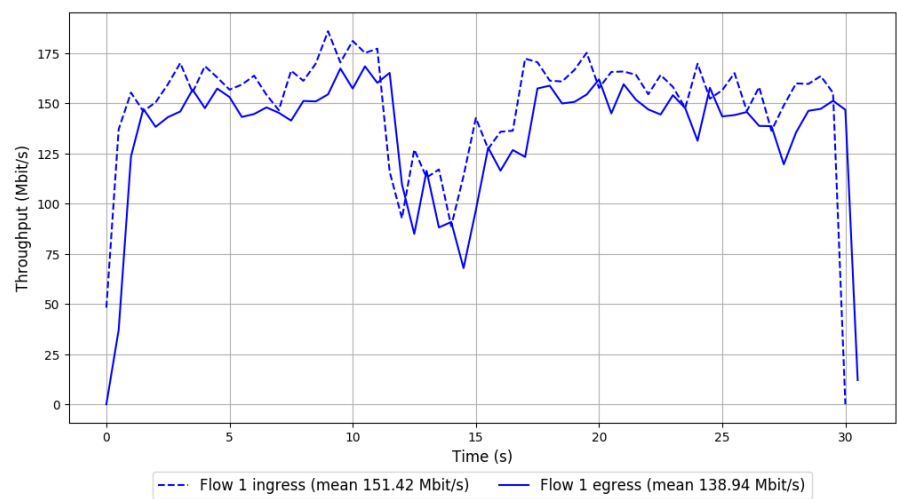
-- Flow 1:

Average throughput: 138.94 Mbit/s

95th percentile per-packet one-way delay: 41.738 ms

Loss rate: 8.26%

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



Run 3: Statistics of TaoVA-100x

Start at: 2021-03-08 03:00:49

End at: 2021-03-08 03:01:19

# Below is generated by plot.py at 2021-03-08 03:11:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 122.13 Mbit/s

95th percentile per-packet one-way delay: 33.447 ms

Loss rate: 6.76%

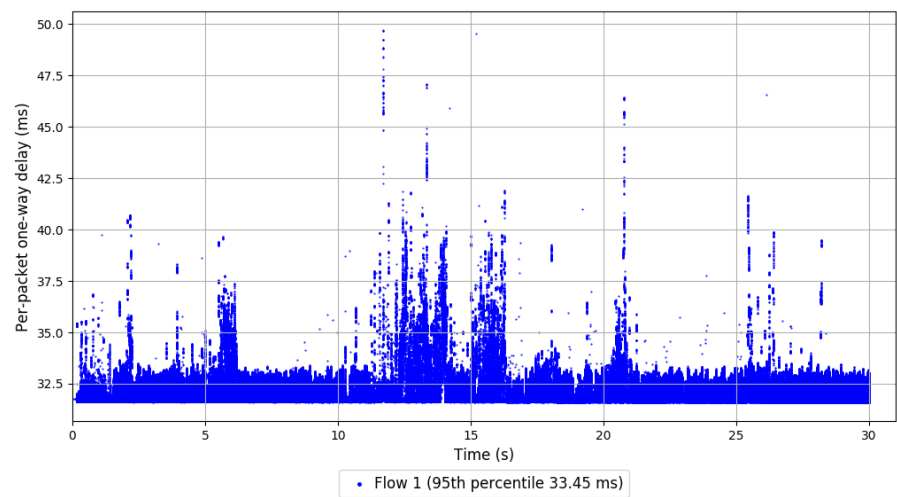
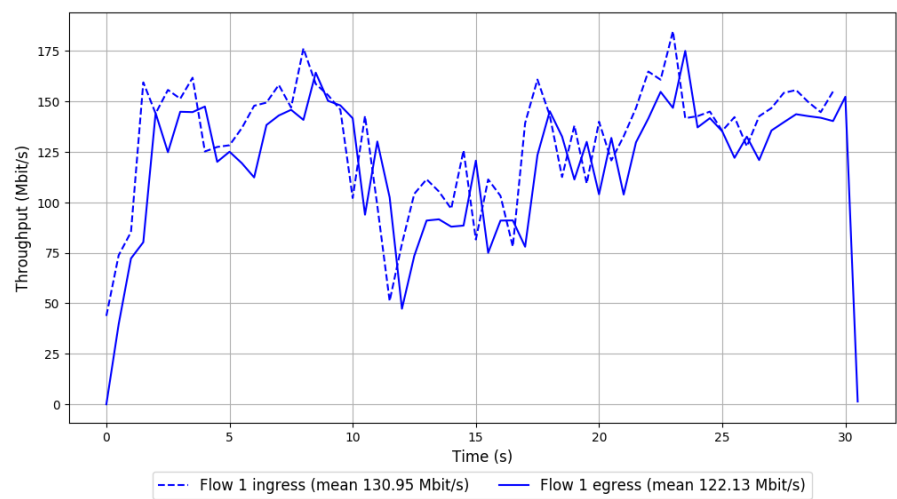
-- Flow 1:

Average throughput: 122.13 Mbit/s

95th percentile per-packet one-way delay: 33.447 ms

Loss rate: 6.76%

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



Run 1: Statistics of TCP Vegas

Start at: 2021-03-08 02:40:04

End at: 2021-03-08 02:40:34

# Below is generated by plot.py at 2021-03-08 03:11:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 9.66 Mbit/s

95th percentile per-packet one-way delay: 42.440 ms

Loss rate: 0.32%

-- Flow 1:

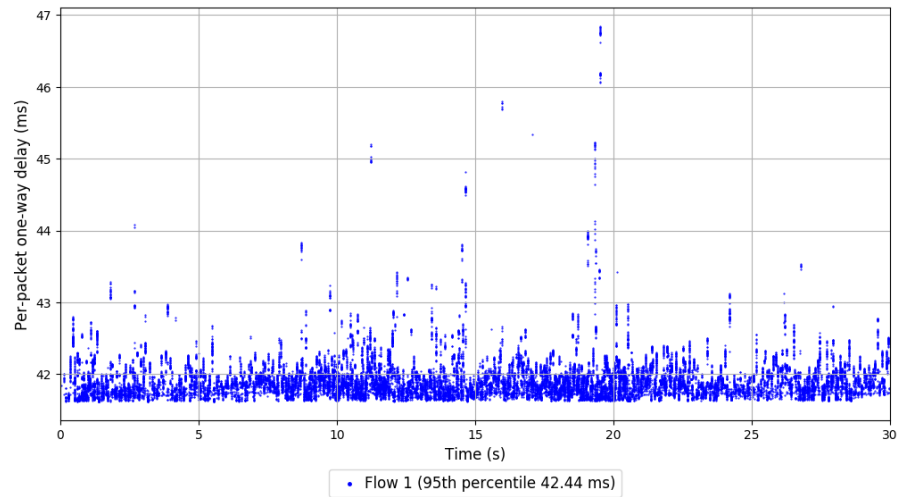
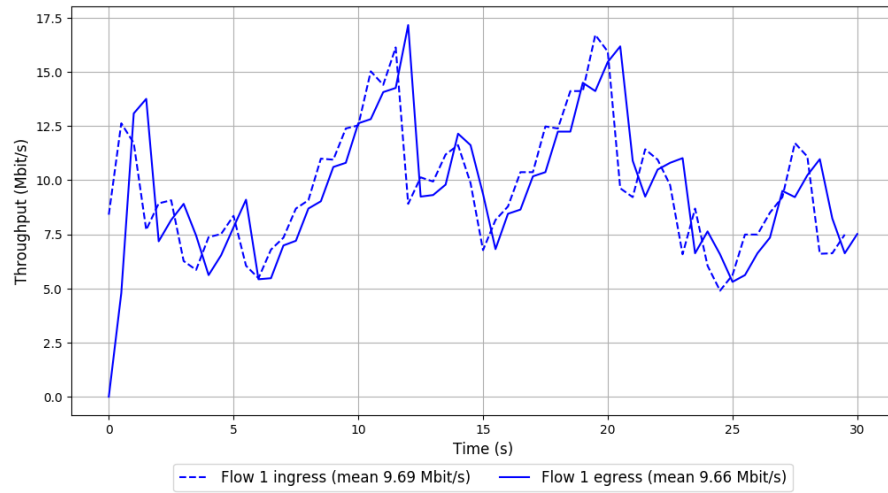
Average throughput: 9.66 Mbit/s

95th percentile per-packet one-way delay: 42.440 ms

Loss rate: 0.32%



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



Run 2: Statistics of TCP Vegas

Start at: 2021-03-08 02:49:02

End at: 2021-03-08 02:49:32

# Below is generated by plot.py at 2021-03-08 03:11:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 14.29 Mbit/s

95th percentile per-packet one-way delay: 33.829 ms

Loss rate: 0.34%

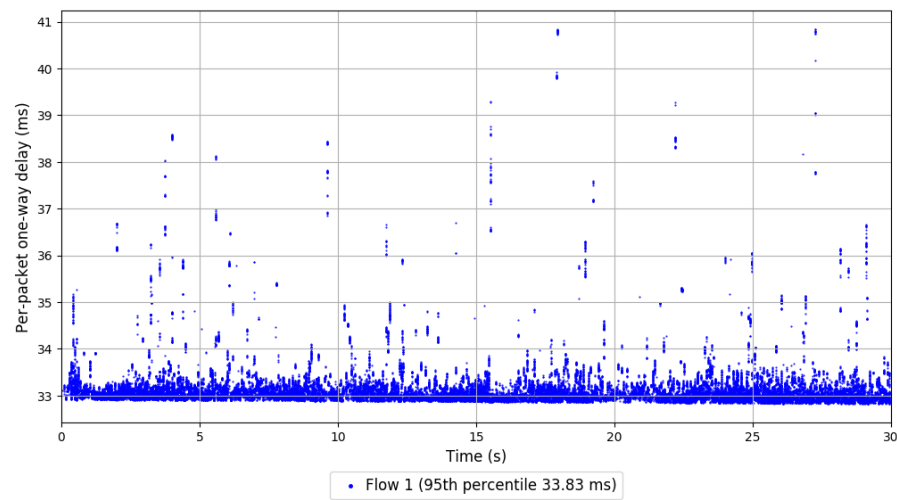
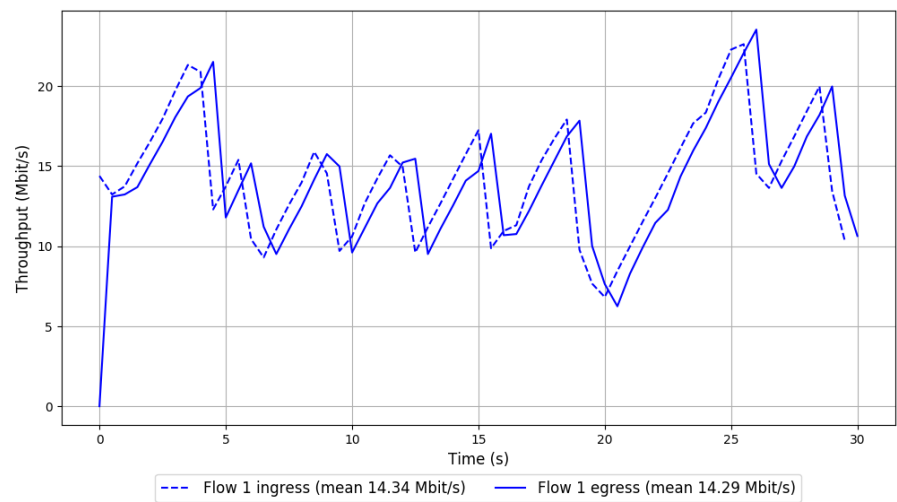
-- Flow 1:

Average throughput: 14.29 Mbit/s

95th percentile per-packet one-way delay: 33.829 ms

Loss rate: 0.34%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2021-03-08 02:58:03

End at: 2021-03-08 02:58:33

# Below is generated by plot.py at 2021-03-08 03:11:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.64 Mbit/s

95th percentile per-packet one-way delay: 41.300 ms

Loss rate: 0.33%

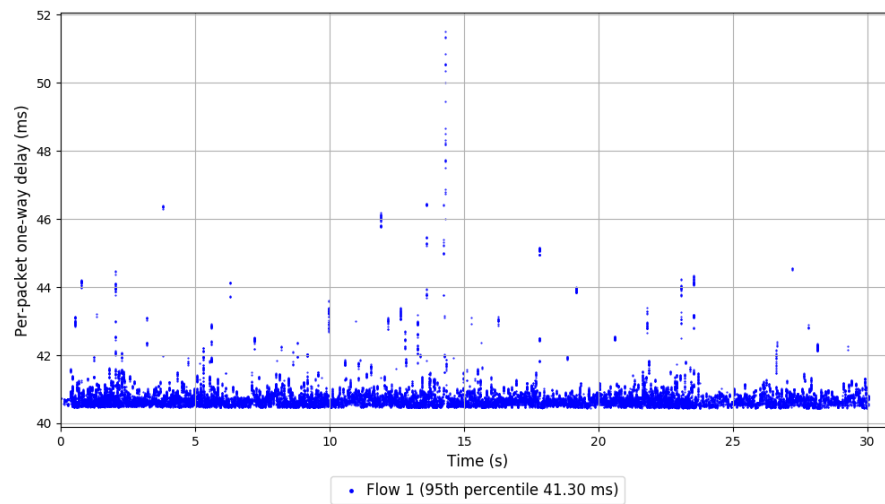
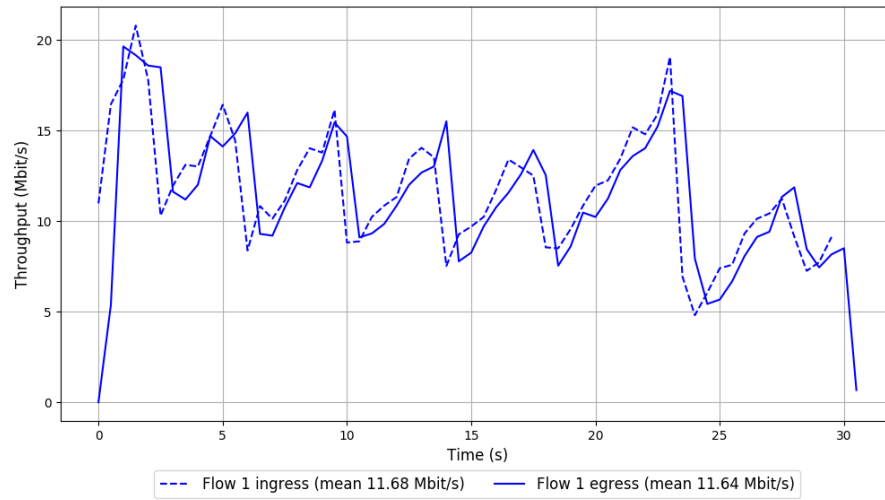
-- Flow 1:

Average throughput: 11.64 Mbit/s

95th percentile per-packet one-way delay: 41.300 ms

Loss rate: 0.33%

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



Run 1: Statistics of PCC-Vivace

Start at: 2021-03-08 02:38:29

End at: 2021-03-08 02:38:59

# Below is generated by plot.py at 2021-03-08 03:11:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 144.18 Mbit/s

95th percentile per-packet one-way delay: 43.703 ms

Loss rate: 3.12%

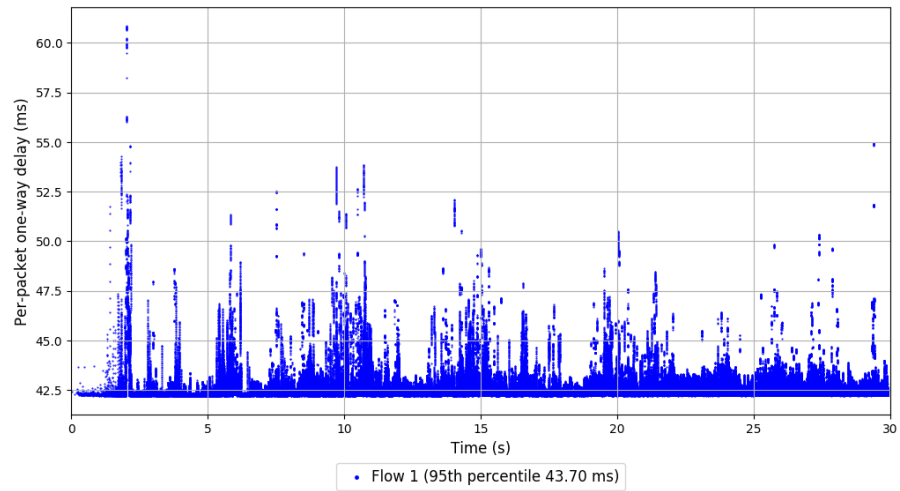
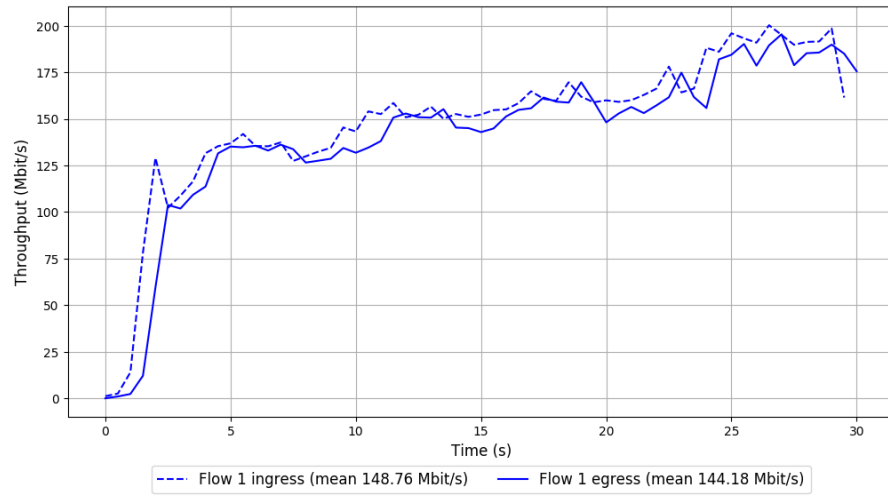
-- Flow 1:

Average throughput: 144.18 Mbit/s

95th percentile per-packet one-way delay: 43.703 ms

Loss rate: 3.12%

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



Run 2: Statistics of PCC-Vivace

Start at: 2021-03-08 02:47:31

End at: 2021-03-08 02:48:01

# Below is generated by plot.py at 2021-03-08 03:11:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 68.19 Mbit/s

95th percentile per-packet one-way delay: 34.460 ms

Loss rate: 0.81%

-- Flow 1:

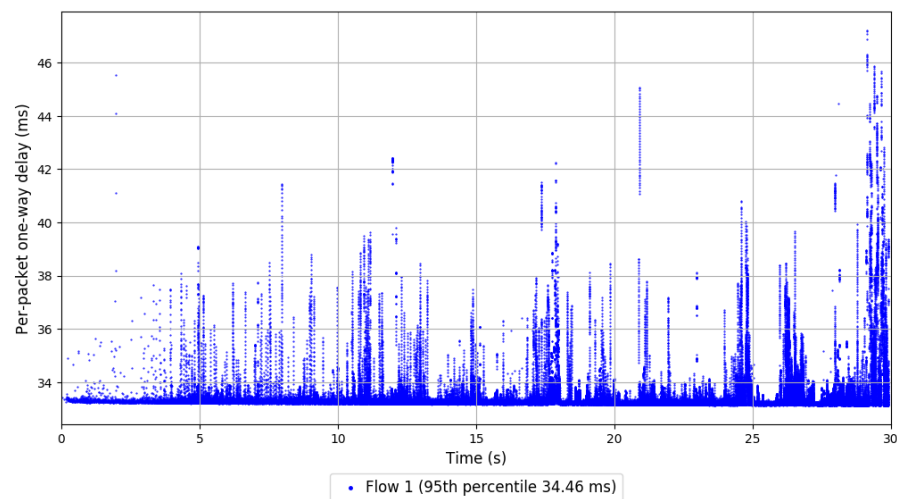
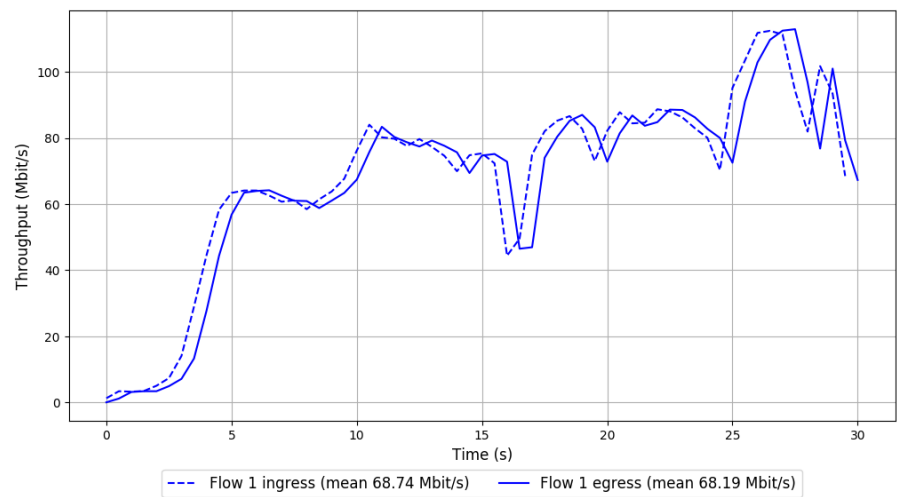
Average throughput: 68.19 Mbit/s

95th percentile per-packet one-way delay: 34.460 ms

Loss rate: 0.81%



Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2021-03-08 02:56:31

End at: 2021-03-08 02:57:01

# Below is generated by plot.py at 2021-03-08 03:11:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 130.17 Mbit/s

95th percentile per-packet one-way delay: 40.415 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 130.17 Mbit/s

95th percentile per-packet one-way delay: 40.415 ms

Loss rate: 1.37%

Run 3: Report of PCC-Vivace — Data Link

