

Pantheon Report

Generated at 2021-03-07 20:03:16 (UTC).

Data path: (*local*) → (*remote*).

Repeated the test of 12 congestion control schemes 3 times.

Each test lasted for 30 seconds running 1 flow.

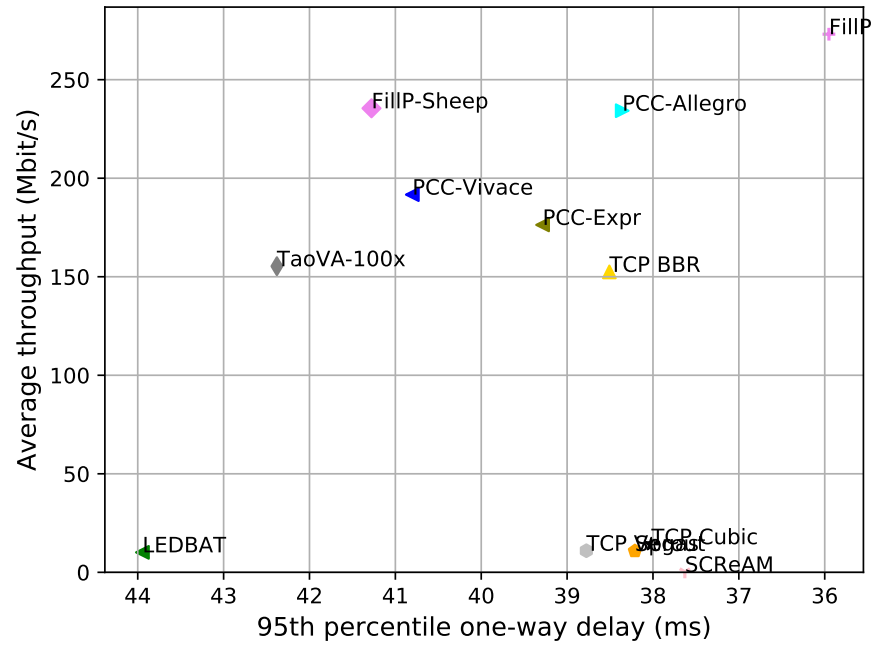
System info:

```
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
```

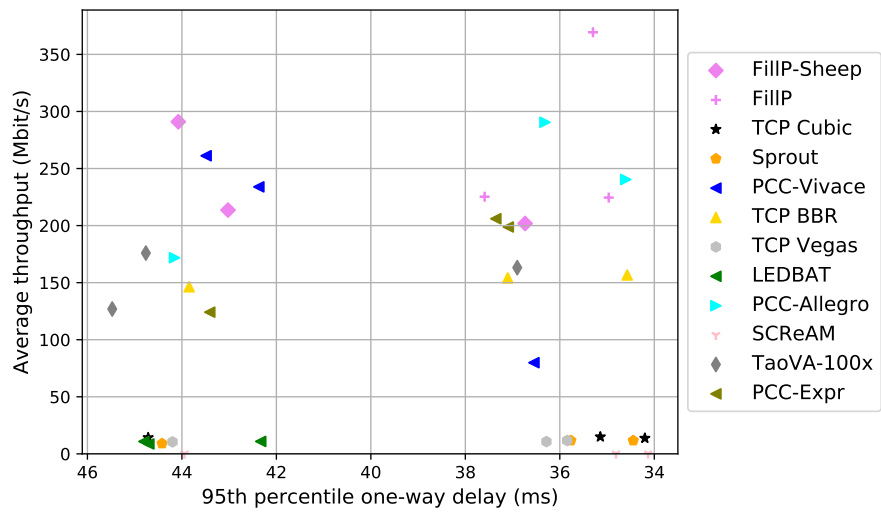
Git summary:

```
branch: master @ dc9827efa3531bf68fe8801eea7d1ae11a9b9899
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
```

test from local to remote, 3 runs of 30s each per scheme
(mean of all runs by scheme)



test from local to remote, 3 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	3	152.46	38.51	4.85
TCP Cubic	3	14.28	38.02	0.45
FillP	3	273.08	35.95	18.31
FillP-Sheep	3	235.47	41.28	13.12
LEDBAT	3	10.14	43.95	0.60
PCC-Allegro	3	234.26	38.36	5.61
PCC-Expr	3	176.31	39.29	5.96
SCReAM	3	0.22	37.63	0.00
Sprout	3	10.82	38.21	1.36
TaoVA-100x	3	155.33	42.38	6.87
TCP Vegas	3	10.96	38.78	0.40
PCC-Vivace	3	191.67	40.80	1.40

Run 1: Statistics of TCP BBR

Start at: 2021-03-07 19:18:18

End at: 2021-03-07 19:18:48

Below is generated by plot.py at 2021-03-07 19:54:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 156.77 Mbit/s

95th percentile per-packet one-way delay: 34.574 ms

Loss rate: 4.89%

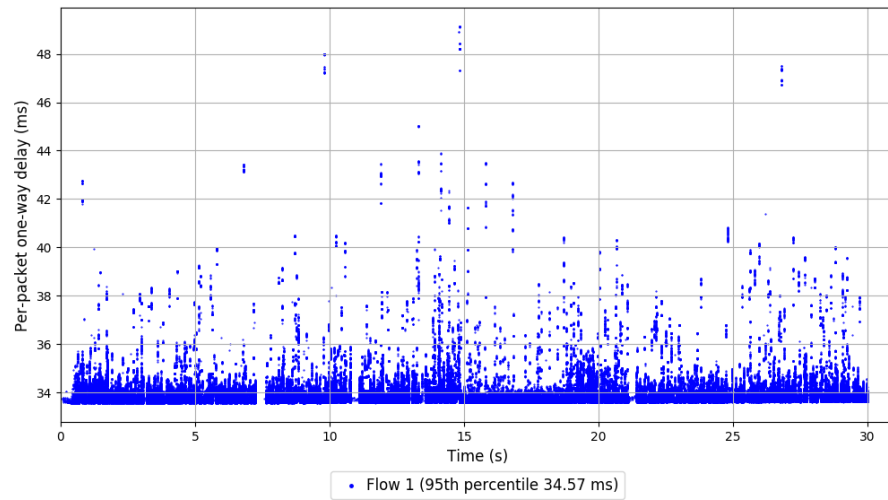
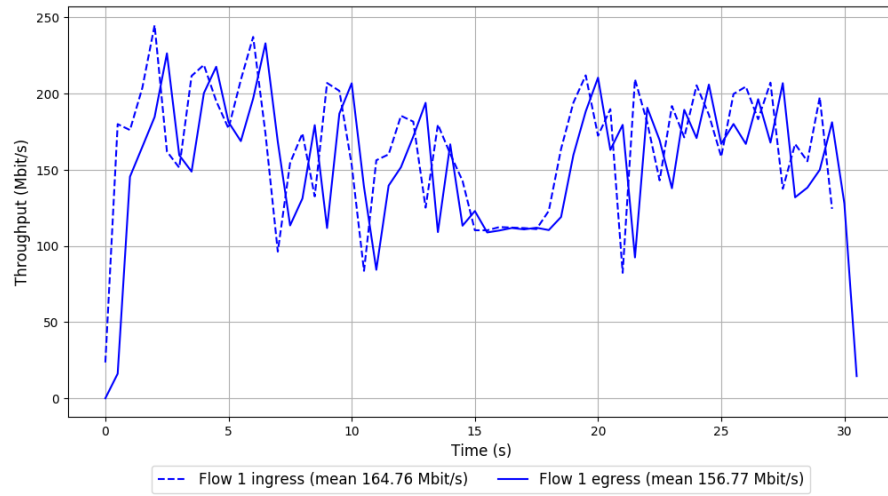
-- Flow 1:

Average throughput: 156.77 Mbit/s

95th percentile per-packet one-way delay: 34.574 ms

Loss rate: 4.89%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2021-03-07 19:27:28

End at: 2021-03-07 19:27:58

Below is generated by plot.py at 2021-03-07 19:54:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.42 Mbit/s

95th percentile per-packet one-way delay: 43.847 ms

Loss rate: 3.99%

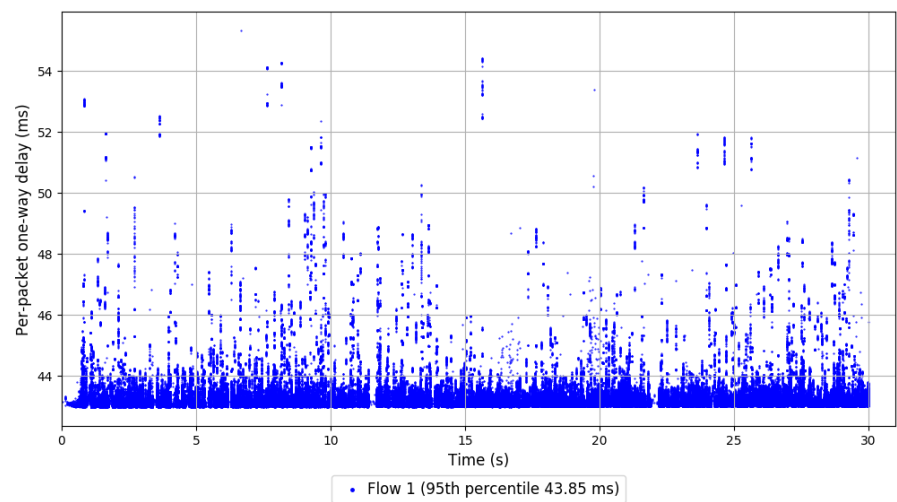
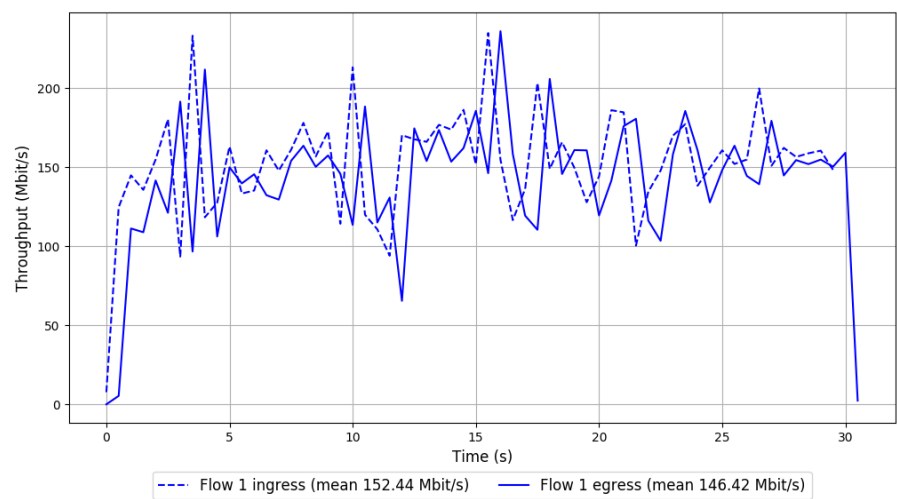
-- Flow 1:

Average throughput: 146.42 Mbit/s

95th percentile per-packet one-way delay: 43.847 ms

Loss rate: 3.99%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2021-03-07 19:36:25

End at: 2021-03-07 19:36:55

Below is generated by plot.py at 2021-03-07 19:55:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.19 Mbit/s

95th percentile per-packet one-way delay: 37.102 ms

Loss rate: 5.66%

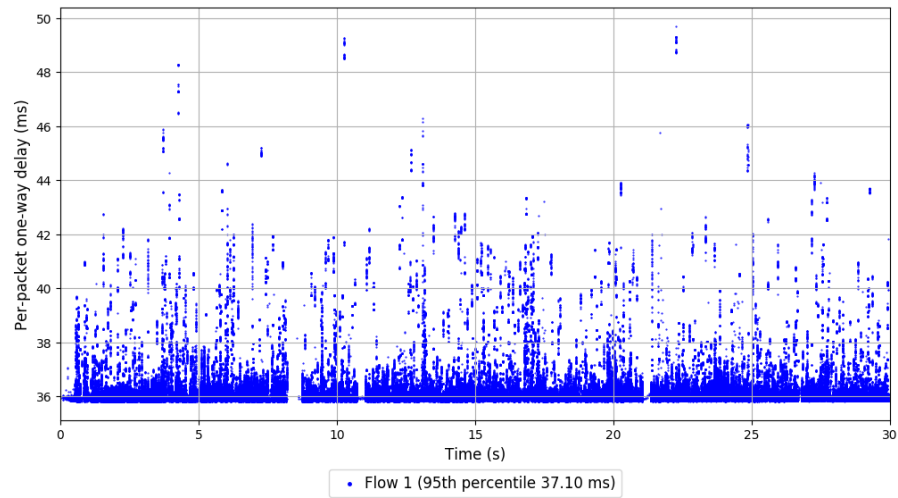
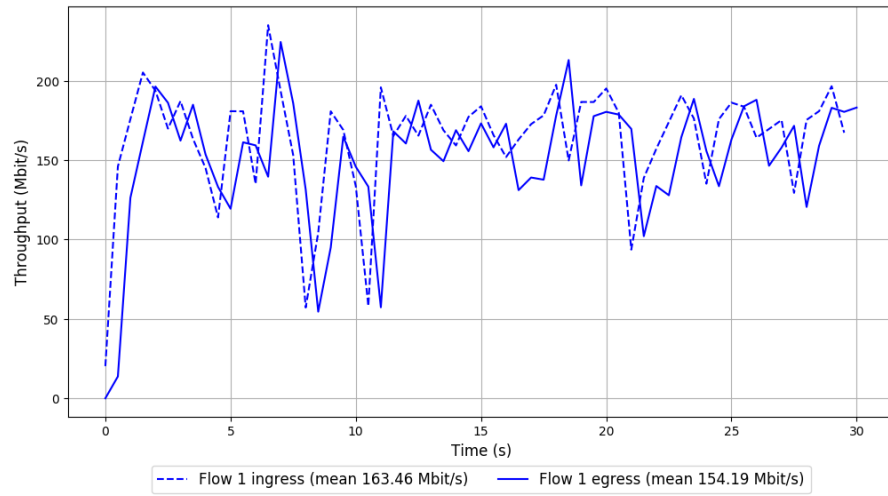
-- Flow 1:

Average throughput: 154.19 Mbit/s

95th percentile per-packet one-way delay: 37.102 ms

Loss rate: 5.66%

Run 3: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2021-03-07 19:16:02

End at: 2021-03-07 19:16:32

Below is generated by plot.py at 2021-03-07 19:55:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.72 Mbit/s

95th percentile per-packet one-way delay: 34.200 ms

Loss rate: 0.29%

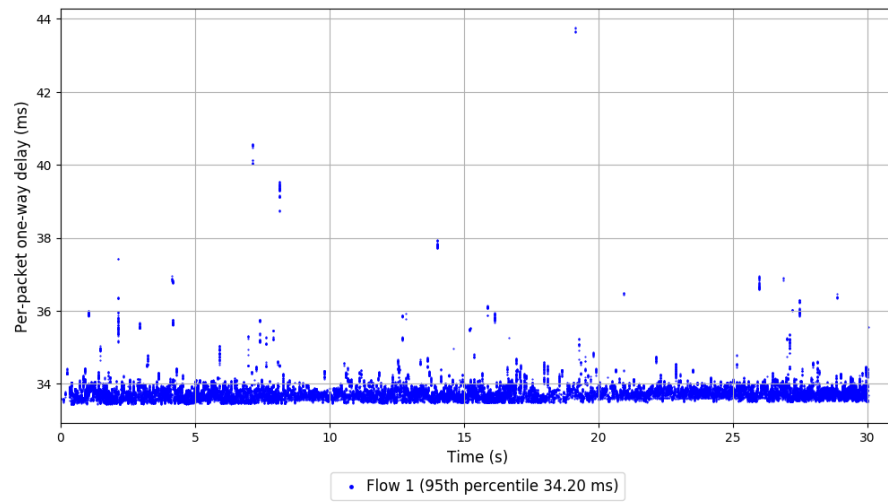
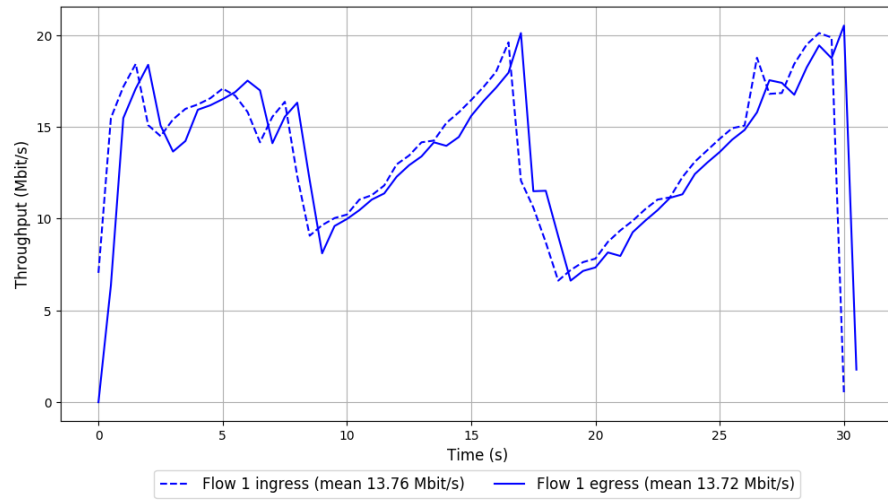
-- Flow 1:

Average throughput: 13.72 Mbit/s

95th percentile per-packet one-way delay: 34.200 ms

Loss rate: 0.29%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2021-03-07 19:25:16

End at: 2021-03-07 19:25:46

Below is generated by plot.py at 2021-03-07 19:55:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.92 Mbit/s

95th percentile per-packet one-way delay: 35.142 ms

Loss rate: 0.25%

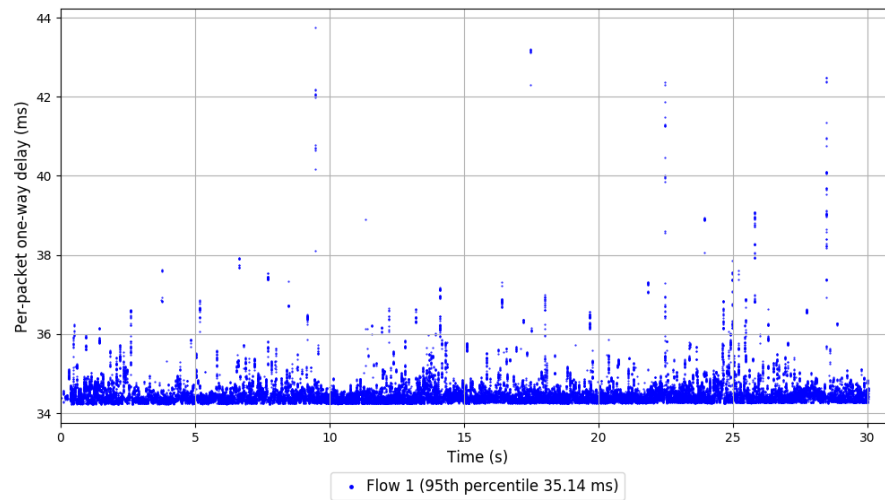
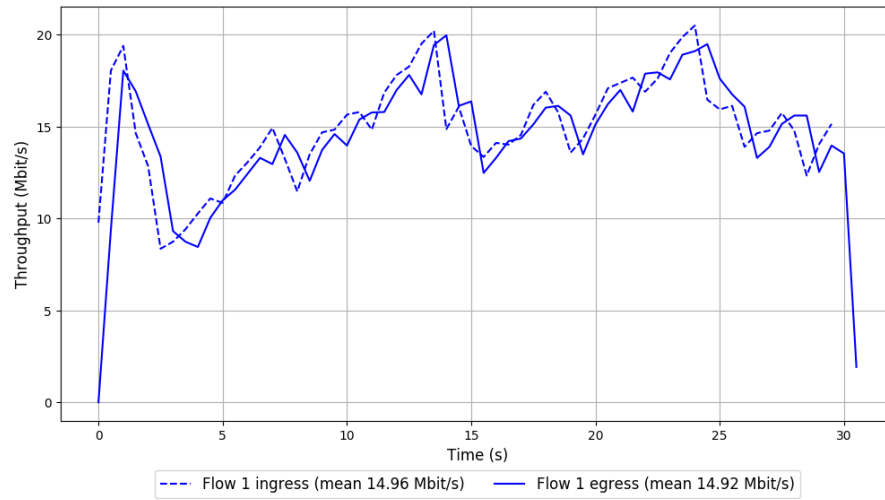
-- Flow 1:

Average throughput: 14.92 Mbit/s

95th percentile per-packet one-way delay: 35.142 ms

Loss rate: 0.25%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2021-03-07 19:34:21

End at: 2021-03-07 19:34:51

Below is generated by plot.py at 2021-03-07 19:55:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.20 Mbit/s

95th percentile per-packet one-way delay: 44.714 ms

Loss rate: 0.81%

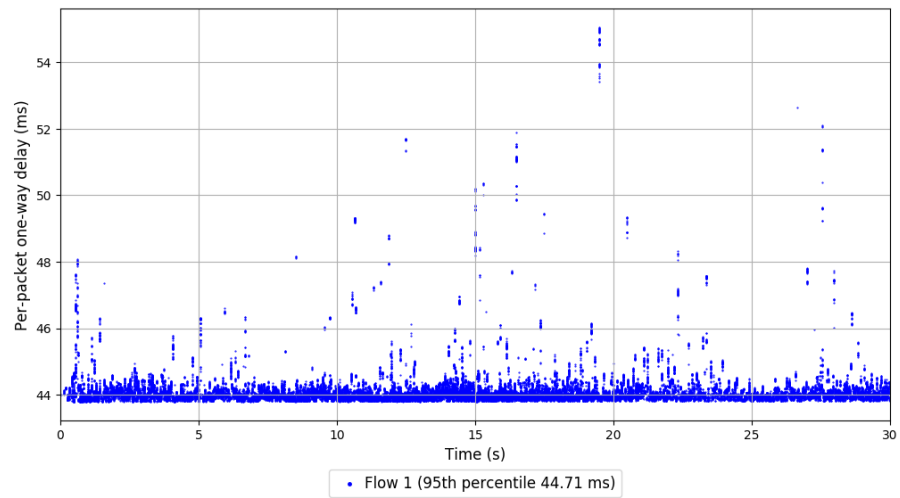
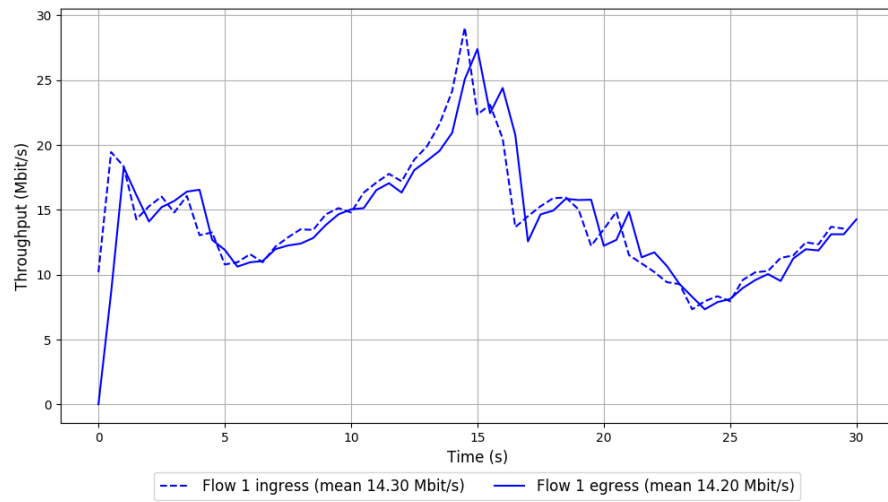
-- Flow 1:

Average throughput: 14.20 Mbit/s

95th percentile per-packet one-way delay: 44.714 ms

Loss rate: 0.81%

Run 3: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2021-03-07 19:15:14

End at: 2021-03-07 19:15:44

Below is generated by plot.py at 2021-03-07 19:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.54 Mbit/s

95th percentile per-packet one-way delay: 34.964 ms

Loss rate: 19.99%

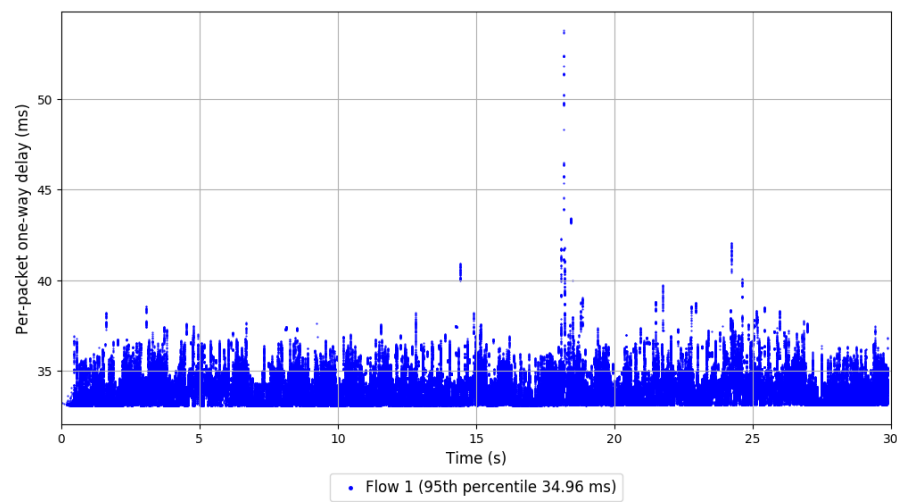
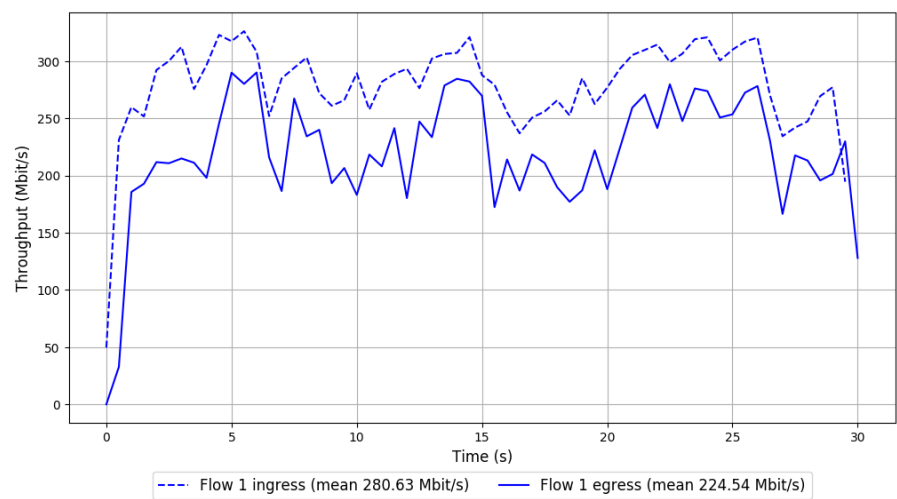
-- Flow 1:

Average throughput: 224.54 Mbit/s

95th percentile per-packet one-way delay: 34.964 ms

Loss rate: 19.99%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2021-03-07 19:24:23

End at: 2021-03-07 19:24:53

Below is generated by plot.py at 2021-03-07 19:56:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 369.40 Mbit/s

95th percentile per-packet one-way delay: 35.298 ms

Loss rate: 13.91%

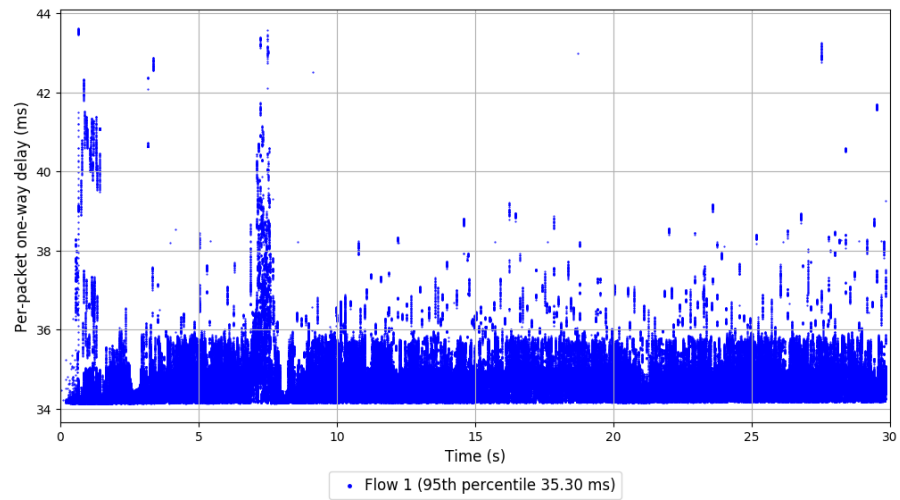
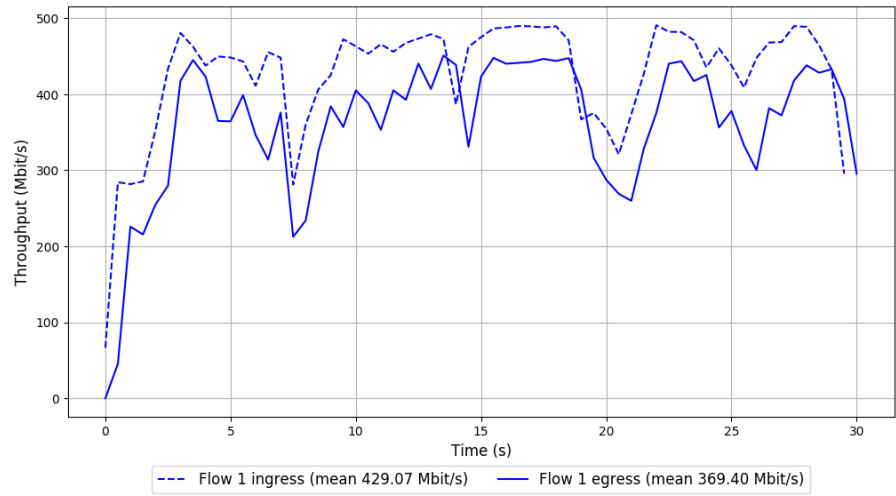
-- Flow 1:

Average throughput: 369.40 Mbit/s

95th percentile per-packet one-way delay: 35.298 ms

Loss rate: 13.91%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2021-03-07 19:33:32

End at: 2021-03-07 19:34:02

Below is generated by plot.py at 2021-03-07 19:56:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.30 Mbit/s

95th percentile per-packet one-way delay: 37.591 ms

Loss rate: 21.03%

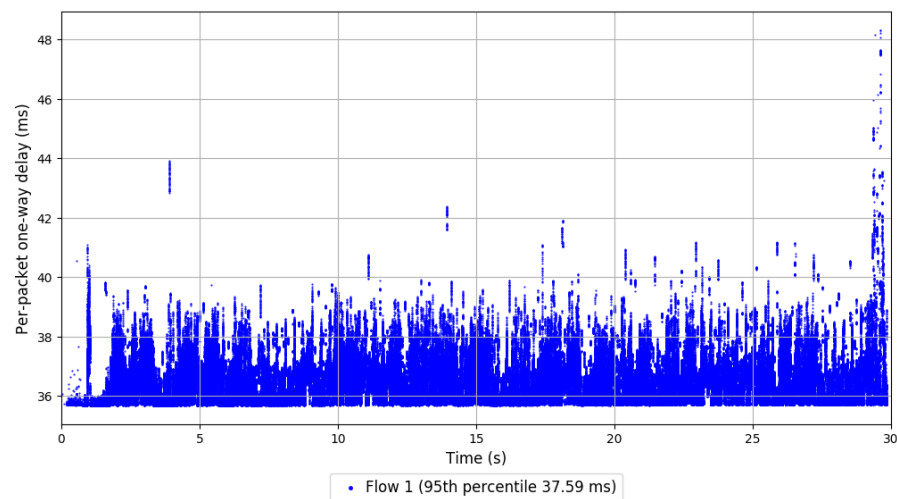
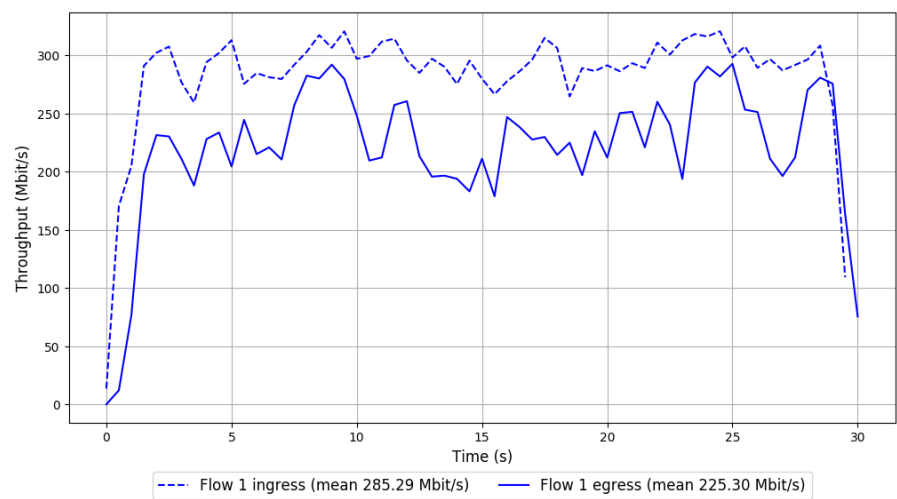
-- Flow 1:

Average throughput: 225.30 Mbit/s

95th percentile per-packet one-way delay: 37.591 ms

Loss rate: 21.03%

Run 3: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2021-03-07 19:14:26

End at: 2021-03-07 19:14:56

Below is generated by plot.py at 2021-03-07 19:57:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.60 Mbit/s

95th percentile per-packet one-way delay: 43.024 ms

Loss rate: 12.64%

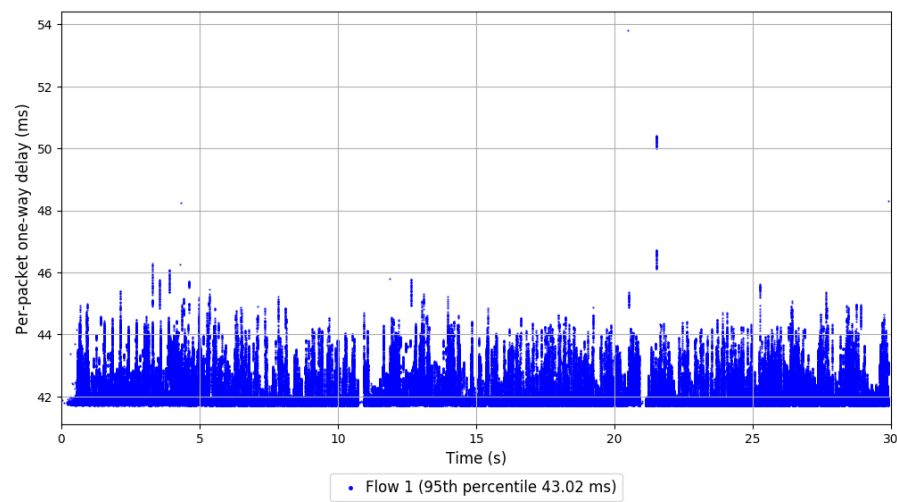
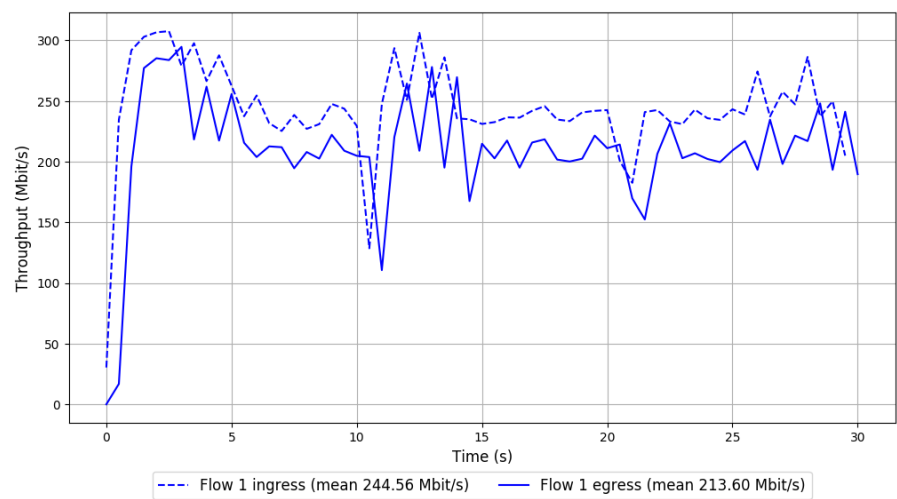
-- Flow 1:

Average throughput: 213.60 Mbit/s

95th percentile per-packet one-way delay: 43.024 ms

Loss rate: 12.64%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2021-03-07 19:23:33

End at: 2021-03-07 19:24:03

Below is generated by plot.py at 2021-03-07 19:57:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 290.98 Mbit/s

95th percentile per-packet one-way delay: 44.076 ms

Loss rate: 13.31%

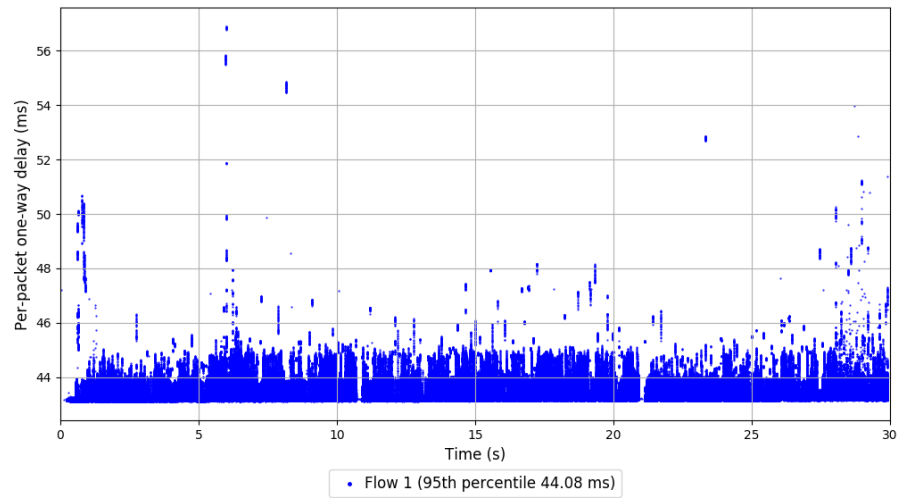
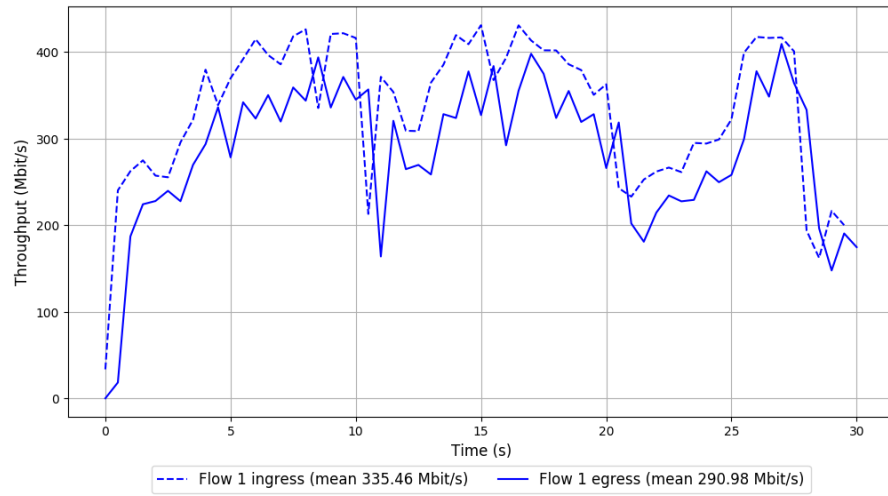
-- Flow 1:

Average throughput: 290.98 Mbit/s

95th percentile per-packet one-way delay: 44.076 ms

Loss rate: 13.31%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2021-03-07 19:32:46

End at: 2021-03-07 19:33:16

Below is generated by plot.py at 2021-03-07 19:58:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.84 Mbit/s

95th percentile per-packet one-way delay: 36.734 ms

Loss rate: 13.41%

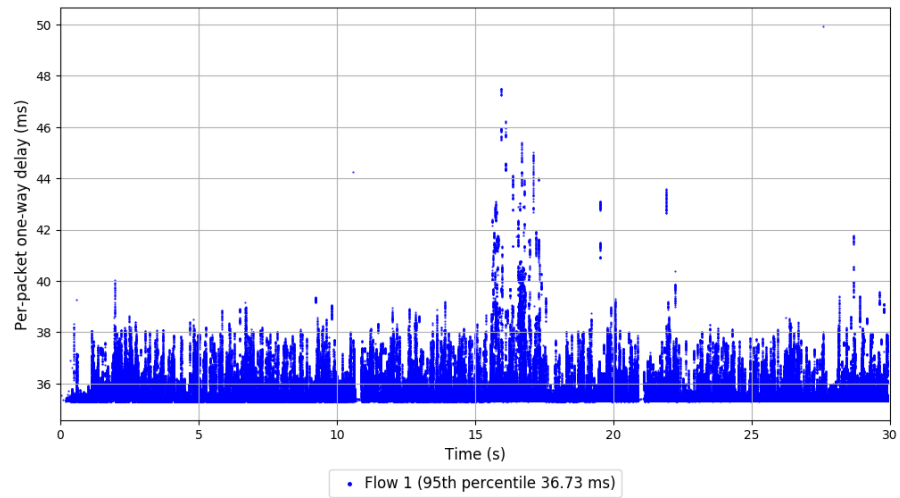
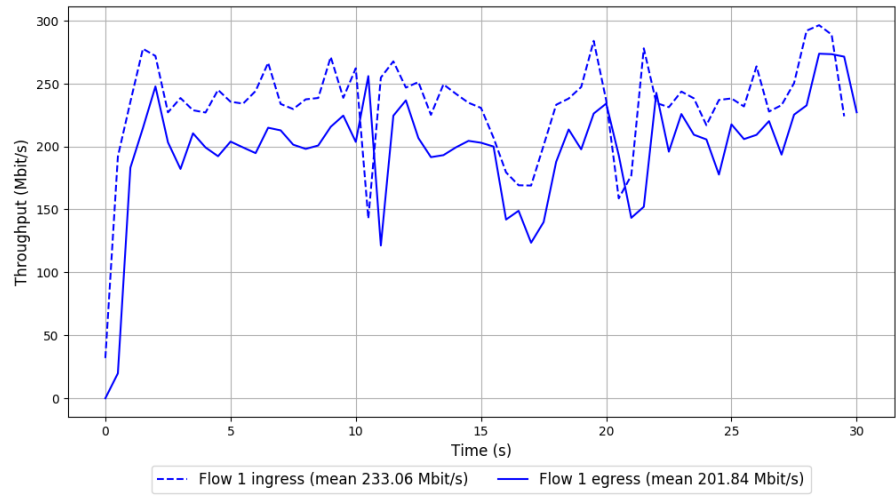
-- Flow 1:

Average throughput: 201.84 Mbit/s

95th percentile per-packet one-way delay: 36.734 ms

Loss rate: 13.41%

Run 3: Report of FillP-Sheep — Data Link



Run 1: Statistics of LEDBAT

Start at: 2021-03-07 19:19:44

End at: 2021-03-07 19:20:14

Below is generated by plot.py at 2021-03-07 19:58:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.89 Mbit/s

95th percentile per-packet one-way delay: 42.332 ms

Loss rate: 0.32%

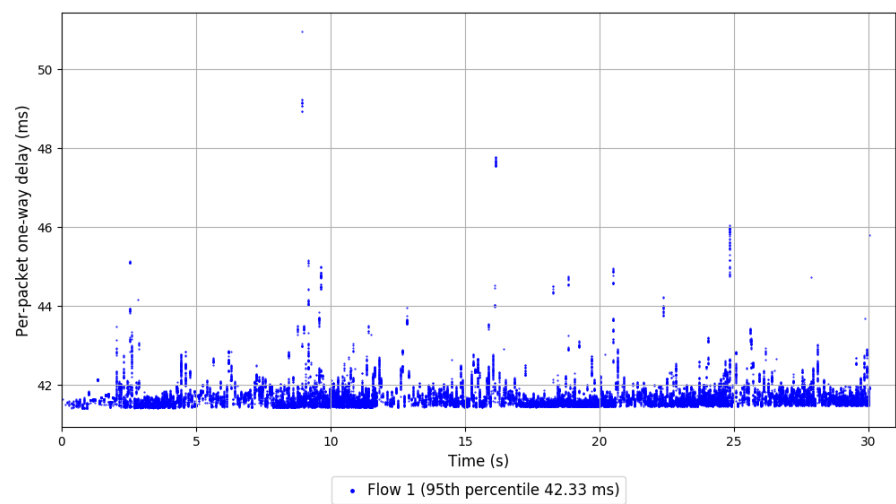
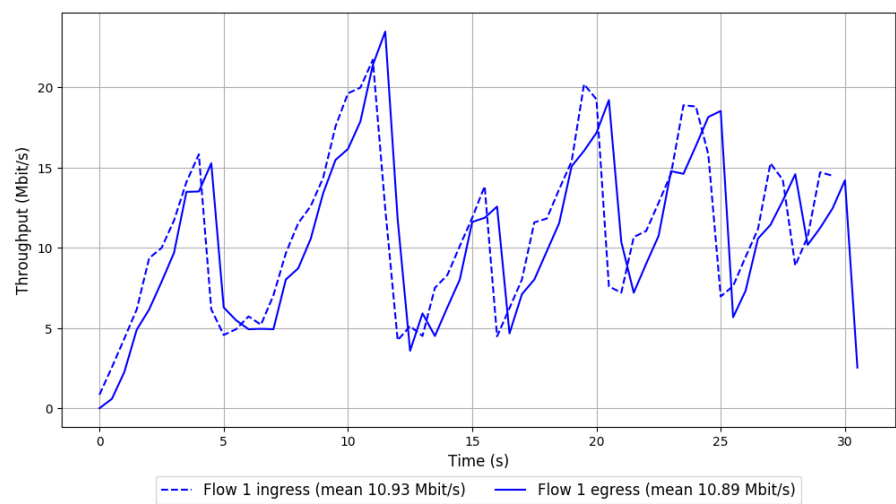
-- Flow 1:

Average throughput: 10.89 Mbit/s

95th percentile per-packet one-way delay: 42.332 ms

Loss rate: 0.32%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2021-03-07 19:28:52

End at: 2021-03-07 19:29:22

Below is generated by plot.py at 2021-03-07 19:58:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.68 Mbit/s

95th percentile per-packet one-way delay: 44.700 ms

Loss rate: 0.88%

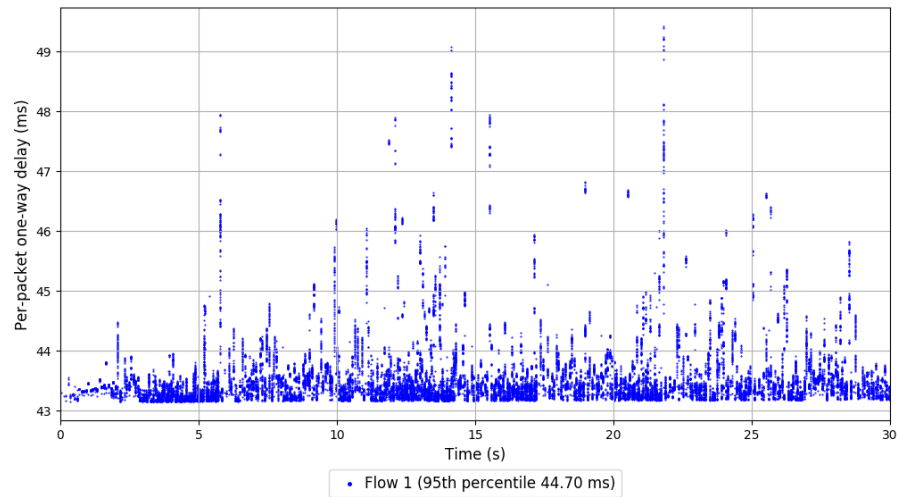
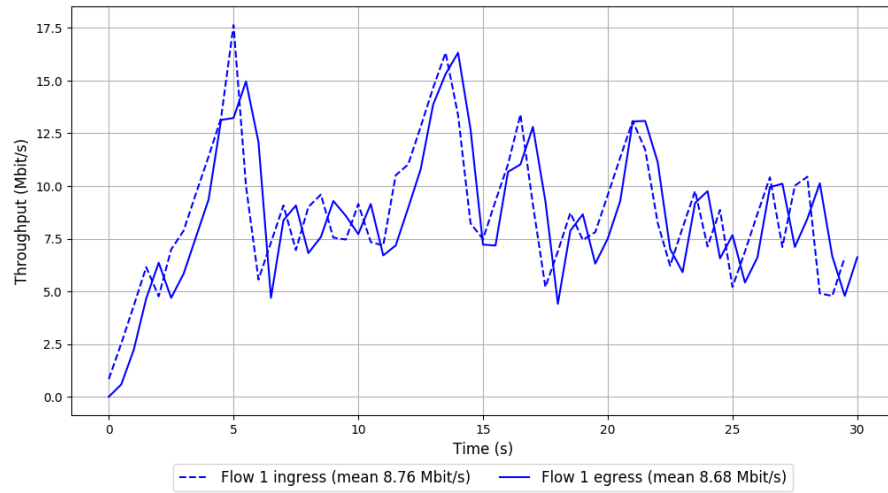
-- Flow 1:

Average throughput: 8.68 Mbit/s

95th percentile per-packet one-way delay: 44.700 ms

Loss rate: 0.88%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2021-03-07 19:37:51

End at: 2021-03-07 19:38:21

Below is generated by plot.py at 2021-03-07 19:58:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.84 Mbit/s

95th percentile per-packet one-way delay: 44.805 ms

Loss rate: 0.60%

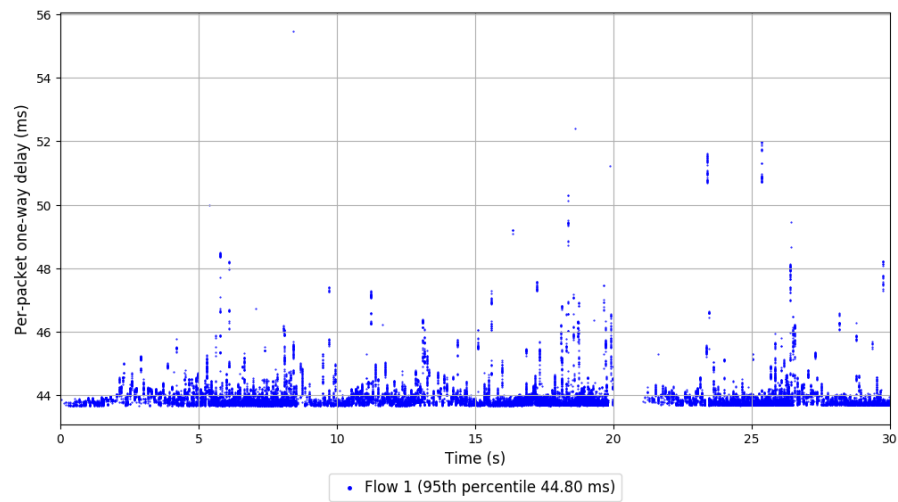
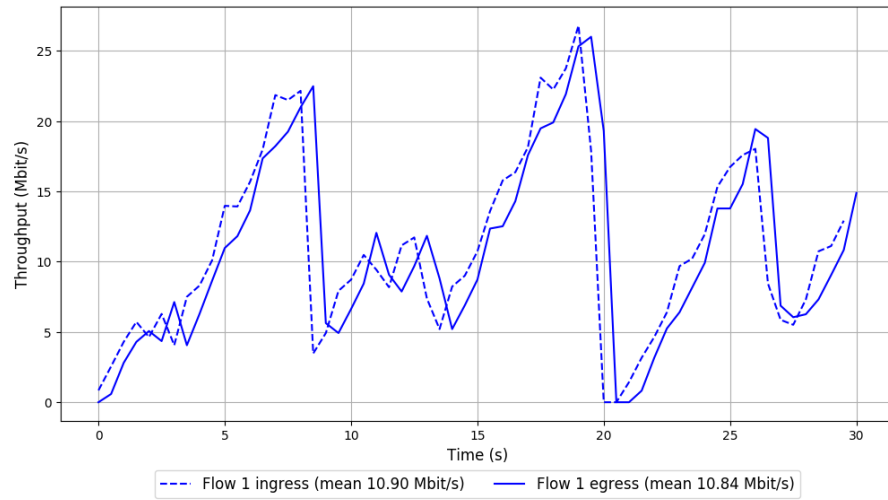
-- Flow 1:

Average throughput: 10.84 Mbit/s

95th percentile per-packet one-way delay: 44.805 ms

Loss rate: 0.60%

Run 3: Report of LEDBAT — Data Link

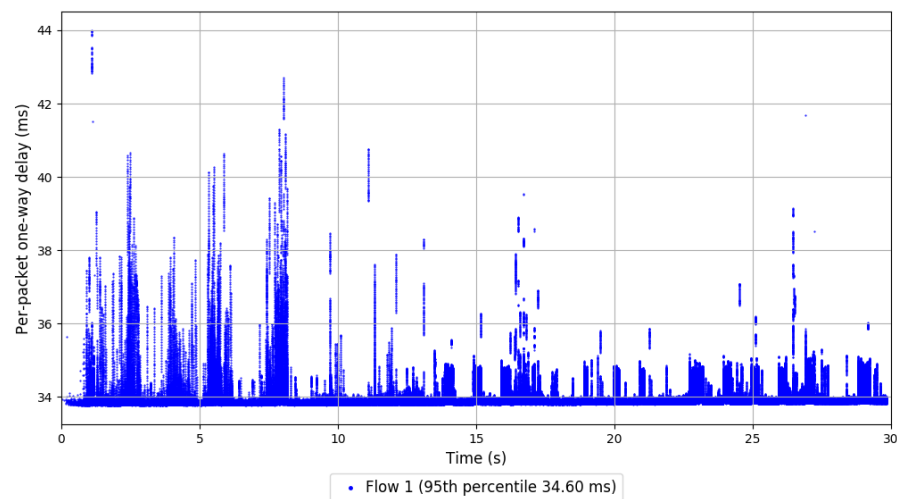
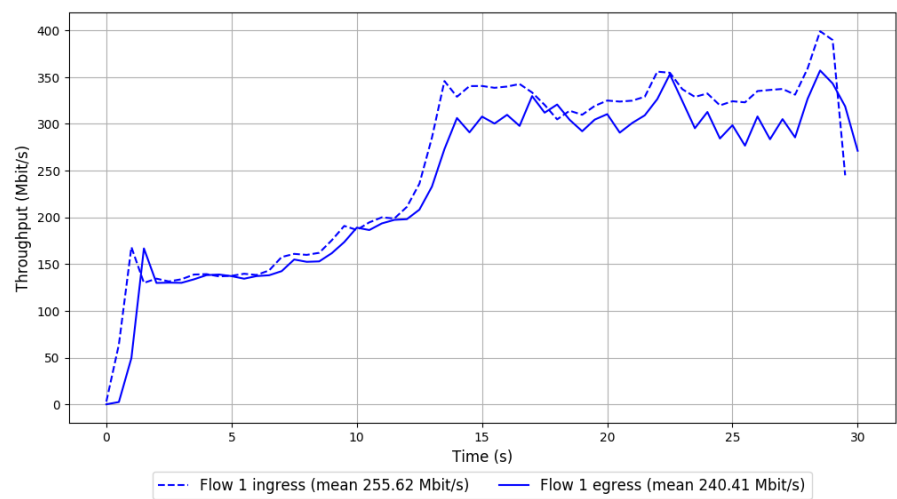


```
Run 1: Statistics of PCC-Allegro

Start at: 2021-03-07 19:20:24
End at: 2021-03-07 19:20:54

# Below is generated by plot.py at 2021-03-07 19:58:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 240.41 Mbit/s
95th percentile per-packet one-way delay: 34.604 ms
Loss rate: 5.95%
-- Flow 1:
Average throughput: 240.41 Mbit/s
95th percentile per-packet one-way delay: 34.604 ms
Loss rate: 5.95%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2021-03-07 19:29:32

End at: 2021-03-07 19:30:02

Below is generated by plot.py at 2021-03-07 19:59:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 290.54 Mbit/s

95th percentile per-packet one-way delay: 36.314 ms

Loss rate: 8.77%

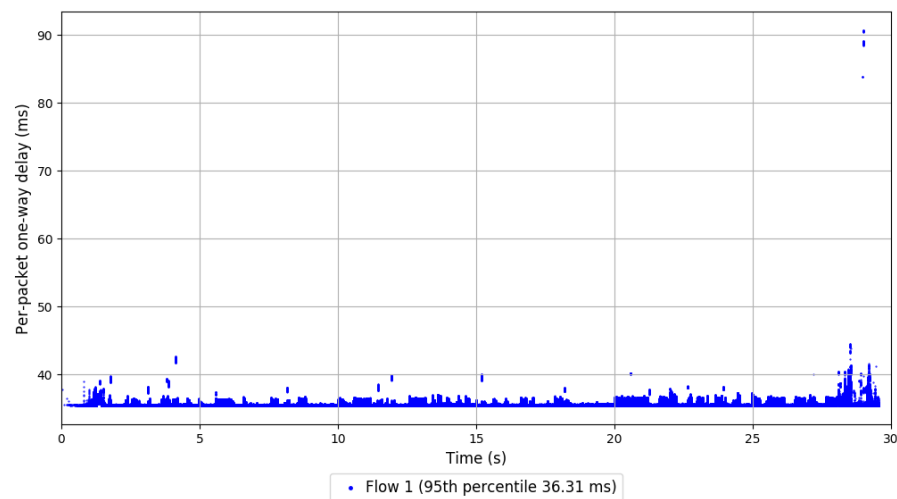
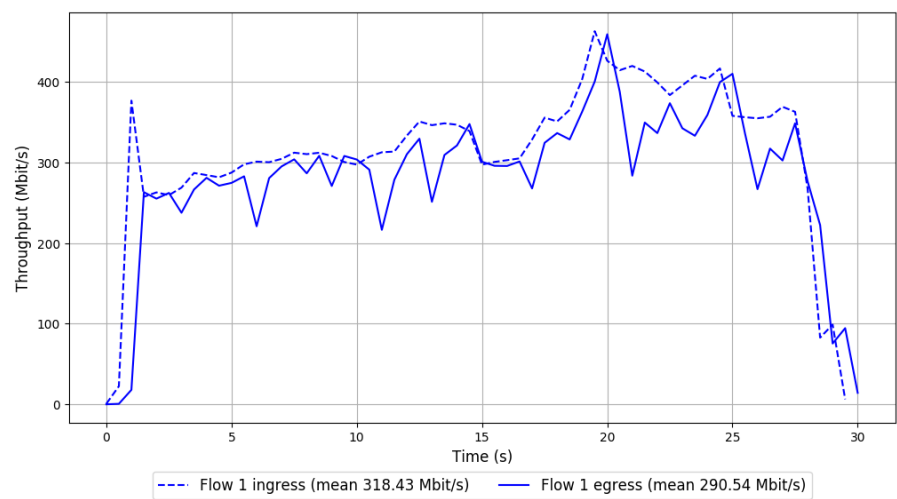
-- Flow 1:

Average throughput: 290.54 Mbit/s

95th percentile per-packet one-way delay: 36.314 ms

Loss rate: 8.77%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2021-03-07 19:38:31

End at: 2021-03-07 19:39:01

Below is generated by plot.py at 2021-03-07 19:59:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.82 Mbit/s

95th percentile per-packet one-way delay: 44.156 ms

Loss rate: 2.11%

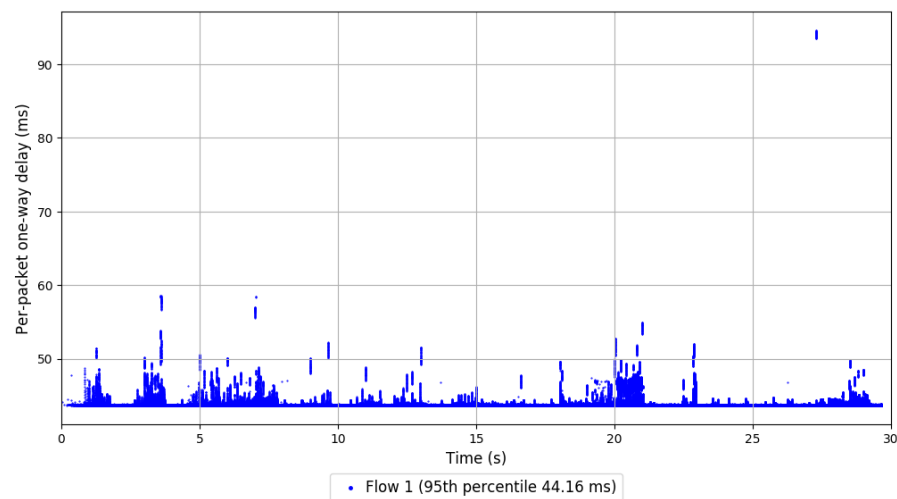
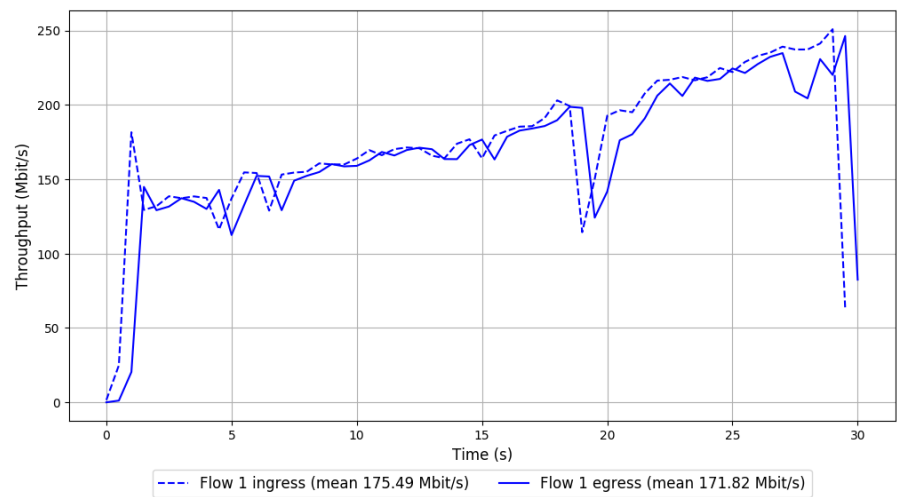
-- Flow 1:

Average throughput: 171.82 Mbit/s

95th percentile per-packet one-way delay: 44.156 ms

Loss rate: 2.11%

Run 3: Report of PCC-Allegro — Data Link

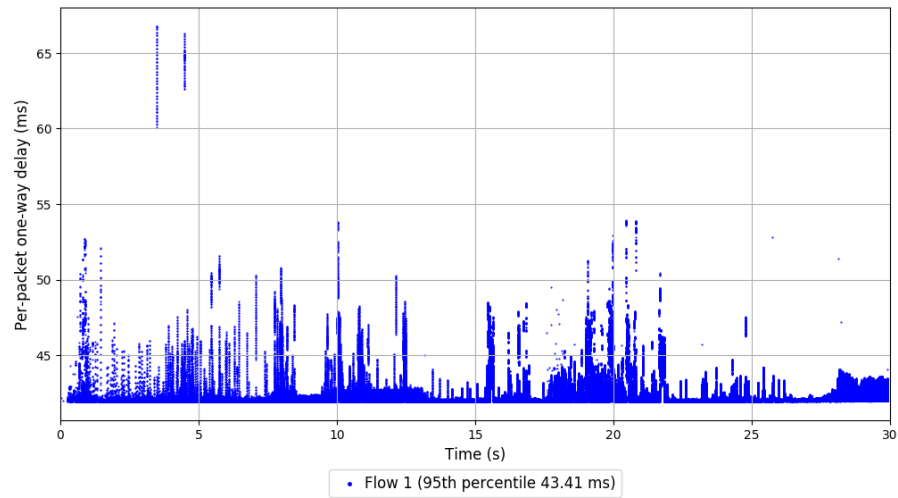
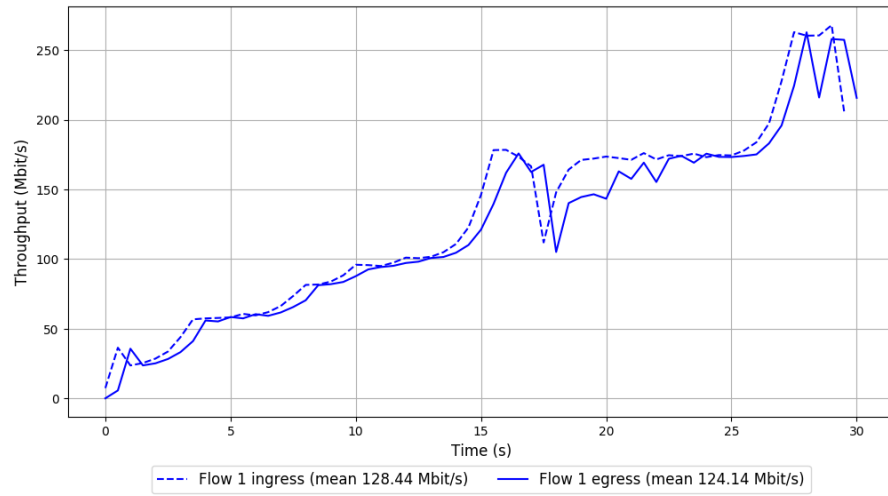


```
Run 1: Statistics of PCC-Expr

Start at: 2021-03-07 19:22:44
End at: 2021-03-07 19:23:14

# Below is generated by plot.py at 2021-03-07 19:59:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 124.14 Mbit/s
95th percentile per-packet one-way delay: 43.411 ms
Loss rate: 3.37%
-- Flow 1:
Average throughput: 124.14 Mbit/s
95th percentile per-packet one-way delay: 43.411 ms
Loss rate: 3.37%
```


Run 1: Report of PCC-Expr — Data Link

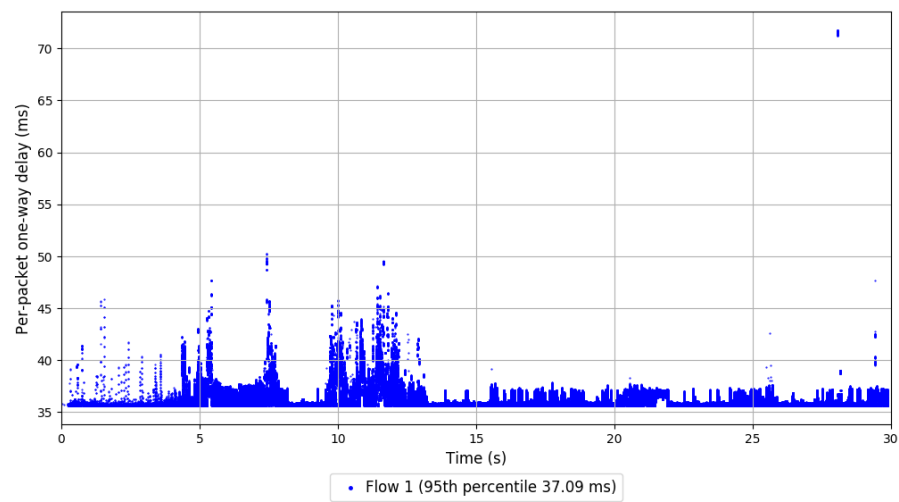
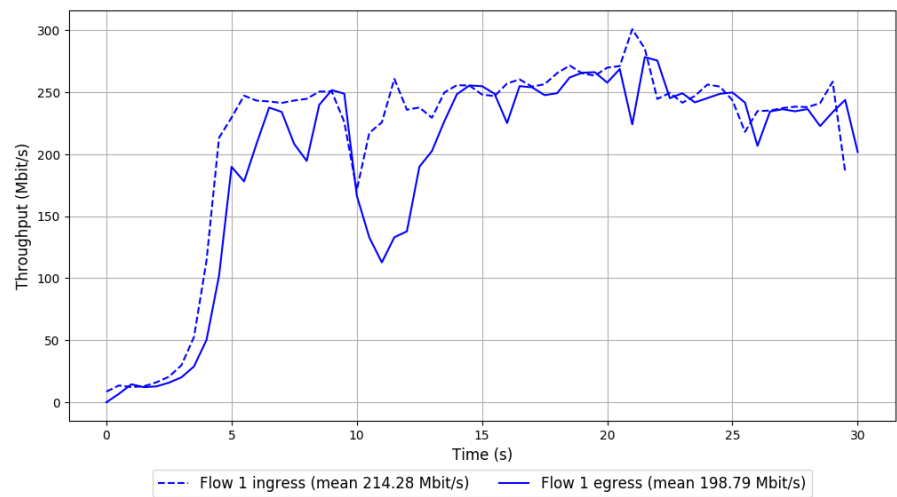


```
Run 2: Statistics of PCC-Expr

Start at: 2021-03-07 19:31:52
End at: 2021-03-07 19:32:22

# Below is generated by plot.py at 2021-03-07 20:00:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 198.79 Mbit/s
95th percentile per-packet one-way delay: 37.091 ms
Loss rate: 7.23%
-- Flow 1:
Average throughput: 198.79 Mbit/s
95th percentile per-packet one-way delay: 37.091 ms
Loss rate: 7.23%
```

Run 2: Report of PCC-Expr — Data Link

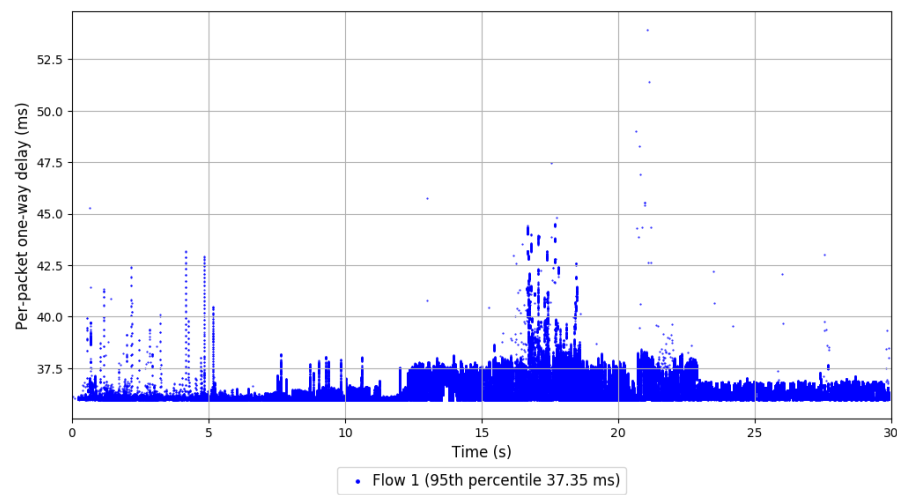
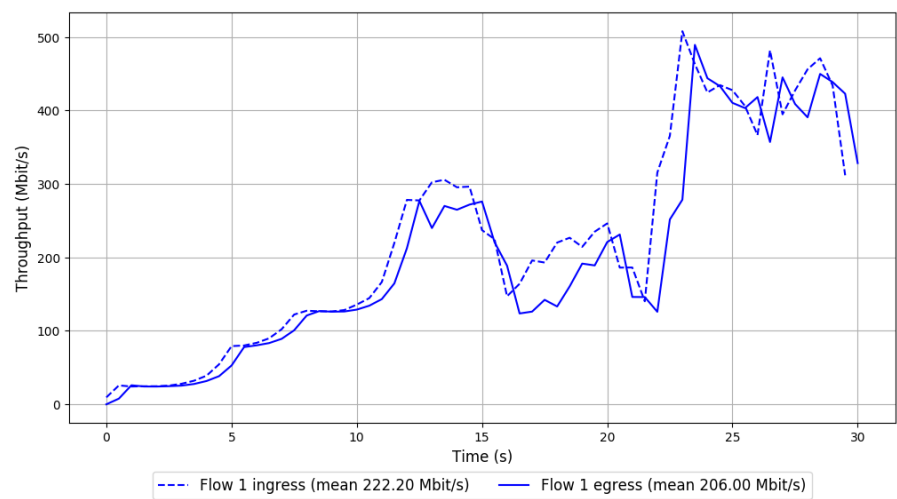


```
Run 3: Statistics of PCC-Expr

Start at: 2021-03-07 19:40:45
End at: 2021-03-07 19:41:15

# Below is generated by plot.py at 2021-03-07 20:01:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 206.00 Mbit/s
95th percentile per-packet one-way delay: 37.355 ms
Loss rate: 7.29%
-- Flow 1:
Average throughput: 206.00 Mbit/s
95th percentile per-packet one-way delay: 37.355 ms
Loss rate: 7.29%
```

Run 3: Report of PCC-Expr — Data Link

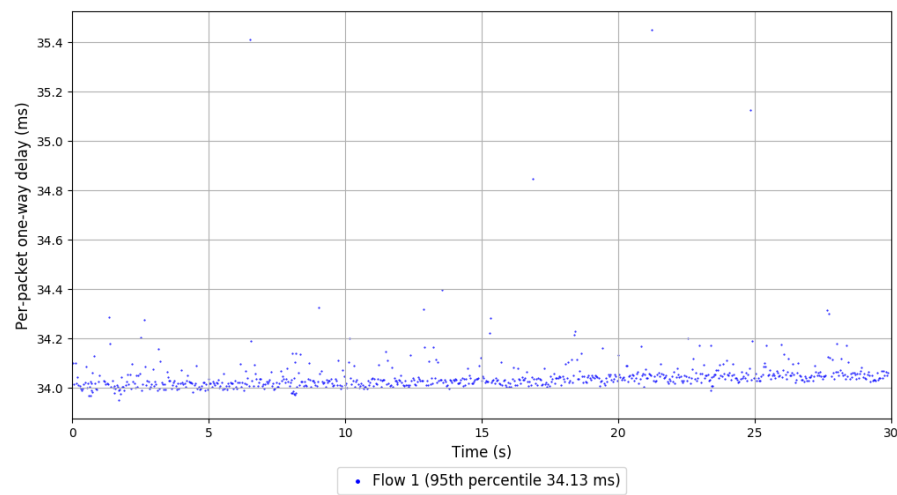
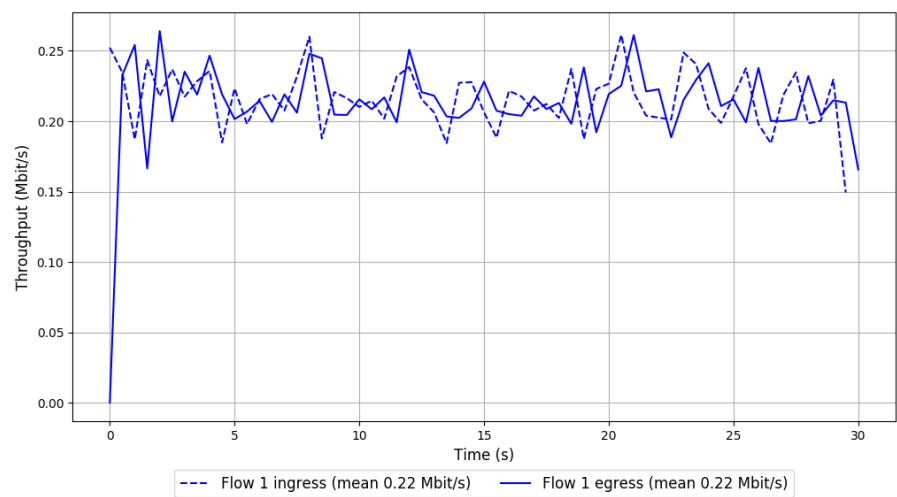


```
Run 1: Statistics of SCReAM

Start at: 2021-03-07 19:21:12
End at: 2021-03-07 19:21:42

# Below is generated by plot.py at 2021-03-07 20:01:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 34.131 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 34.131 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

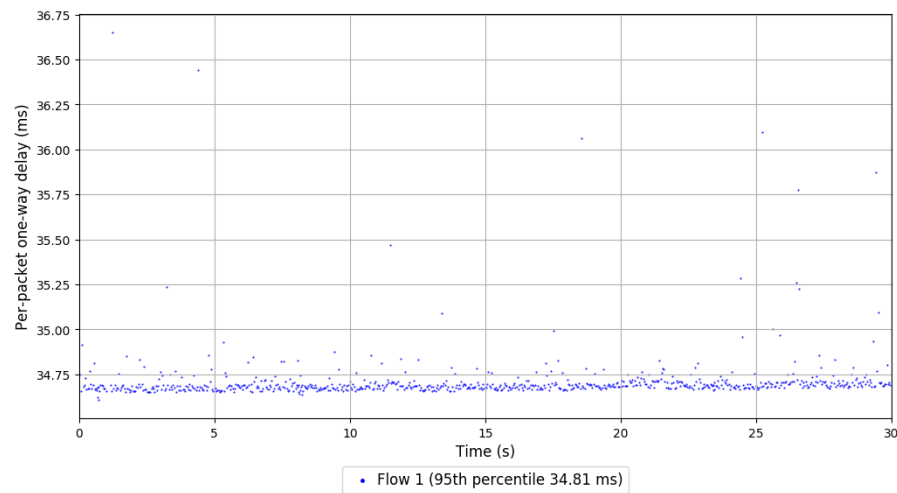
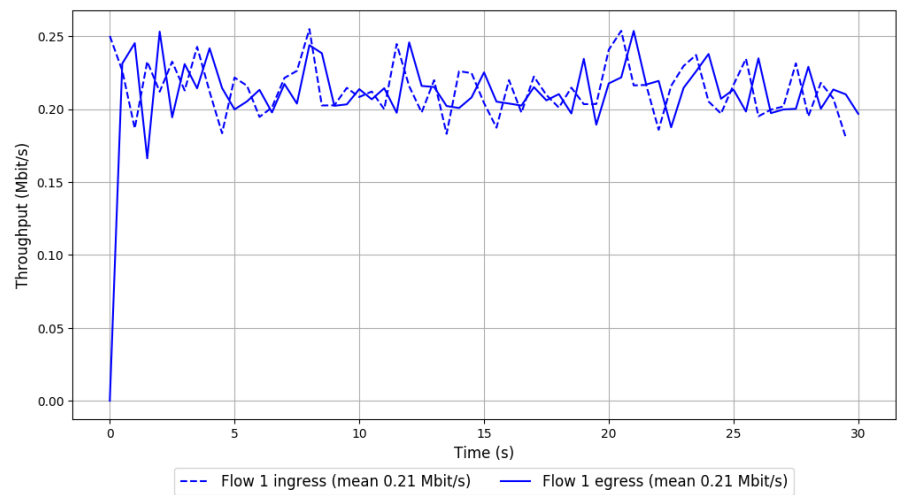


```
Run 2: Statistics of SCReAM

Start at: 2021-03-07 19:30:21
End at: 2021-03-07 19:30:51

# Below is generated by plot.py at 2021-03-07 20:01:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 34.811 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 34.811 ms
Loss rate: 0.00%
```


Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2021-03-07 19:39:16

End at: 2021-03-07 19:39:46

Below is generated by plot.py at 2021-03-07 20:01:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 43.945 ms

Loss rate: 0.00%

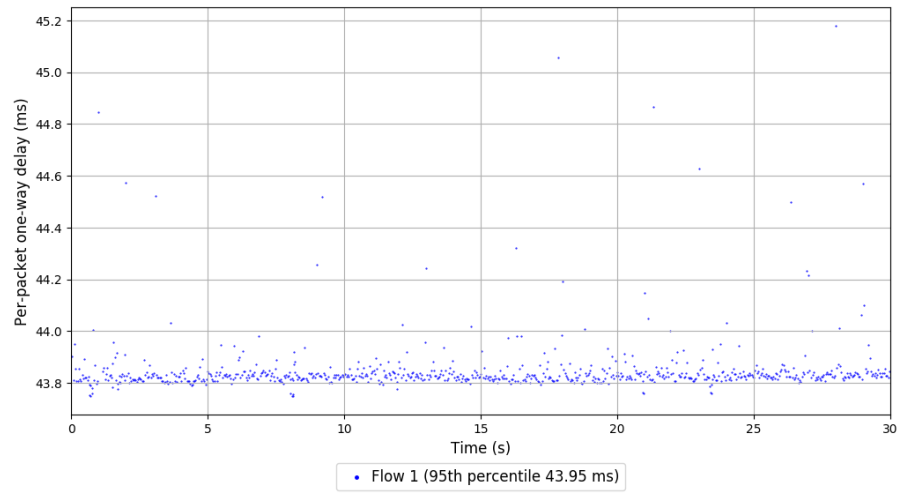
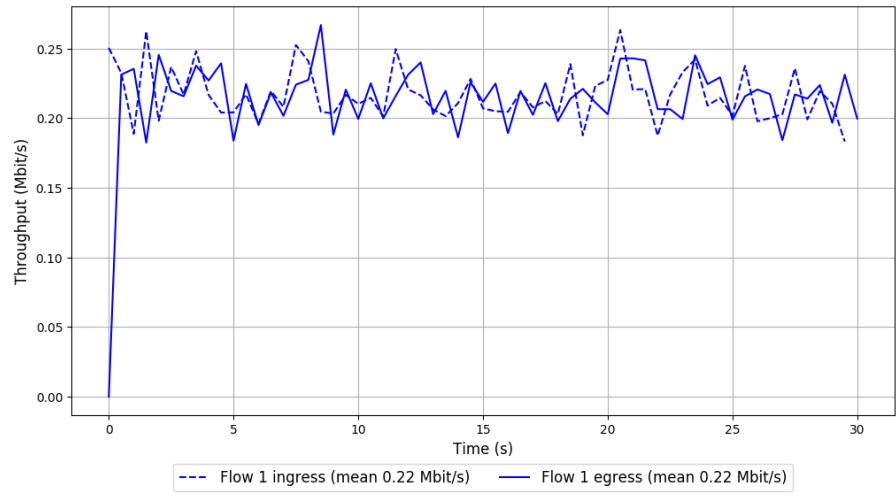
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 43.945 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2021-03-07 19:16:43

End at: 2021-03-07 19:17:13

Below is generated by plot.py at 2021-03-07 20:01:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.67 Mbit/s

95th percentile per-packet one-way delay: 34.445 ms

Loss rate: 1.22%

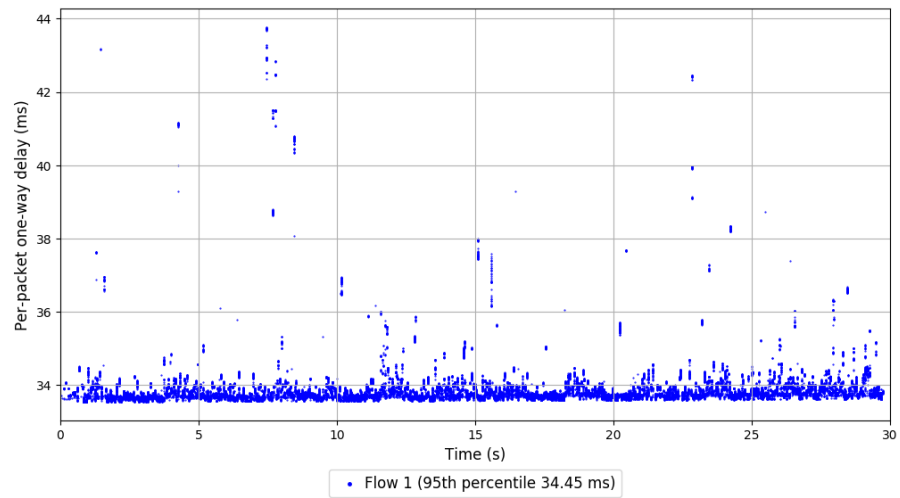
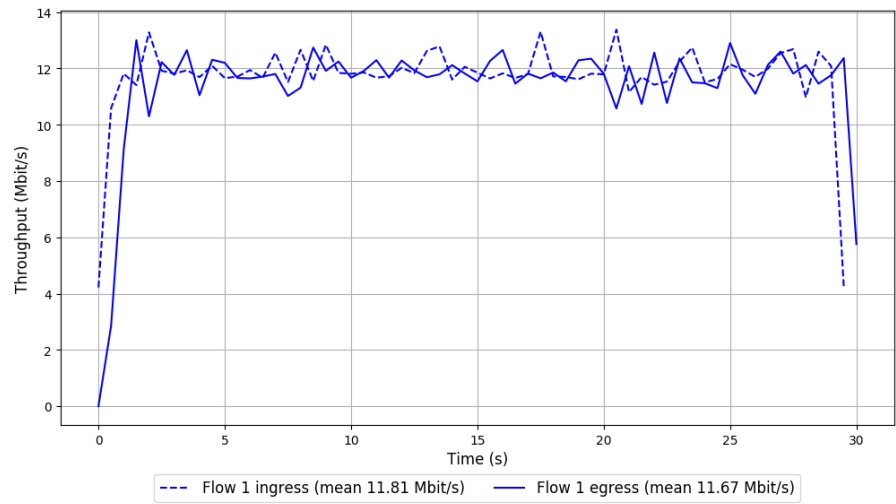
-- Flow 1:

Average throughput: 11.67 Mbit/s

95th percentile per-packet one-way delay: 34.445 ms

Loss rate: 1.22%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2021-03-07 19:25:56

End at: 2021-03-07 19:26:26

Below is generated by plot.py at 2021-03-07 20:01:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.09 Mbit/s

95th percentile per-packet one-way delay: 44.421 ms

Loss rate: 2.29%

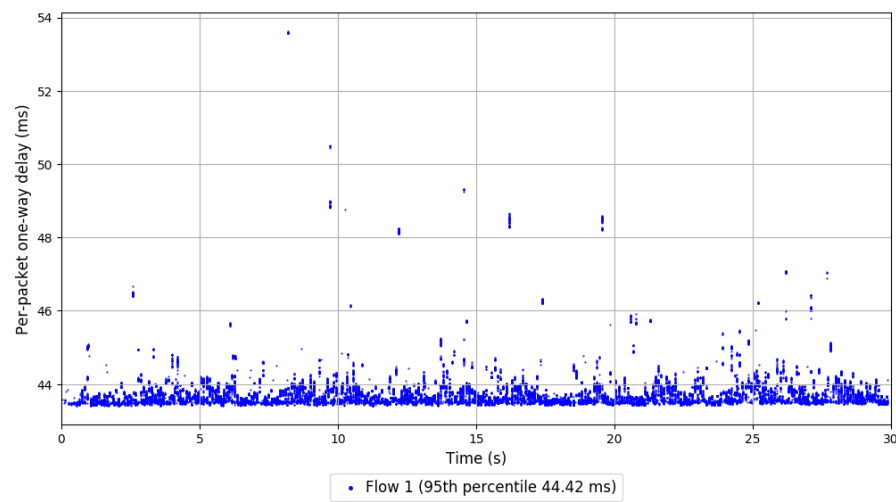
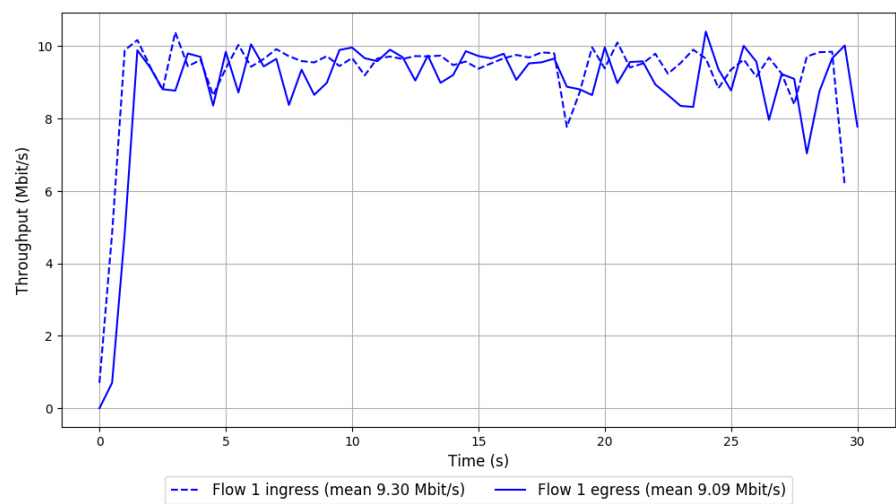
-- Flow 1:

Average throughput: 9.09 Mbit/s

95th percentile per-packet one-way delay: 44.421 ms

Loss rate: 2.29%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2021-03-07 19:35:02

End at: 2021-03-07 19:35:32

Below is generated by plot.py at 2021-03-07 20:01:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.70 Mbit/s

95th percentile per-packet one-way delay: 35.766 ms

Loss rate: 0.57%

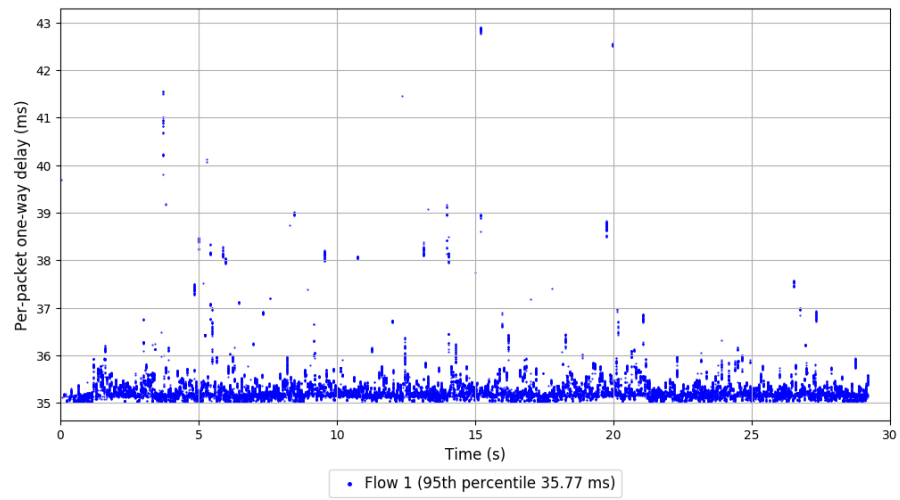
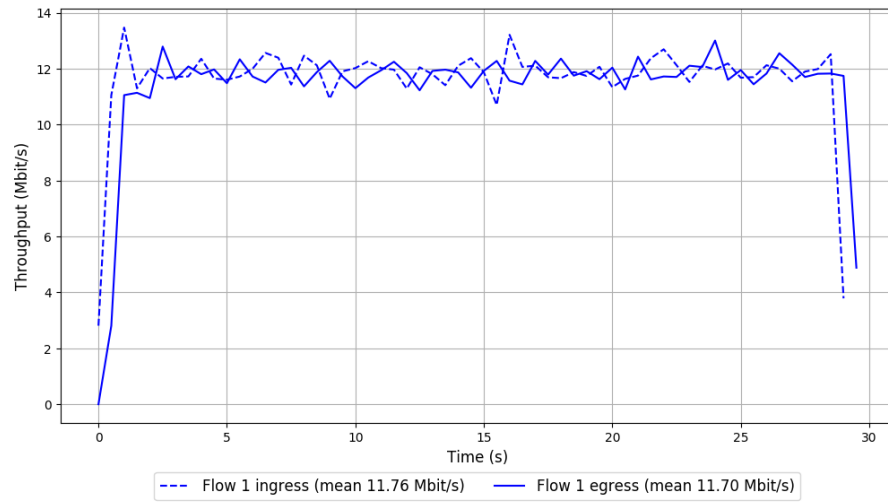
-- Flow 1:

Average throughput: 11.70 Mbit/s

95th percentile per-packet one-way delay: 35.766 ms

Loss rate: 0.57%

Run 3: Report of Sprout — Data Link

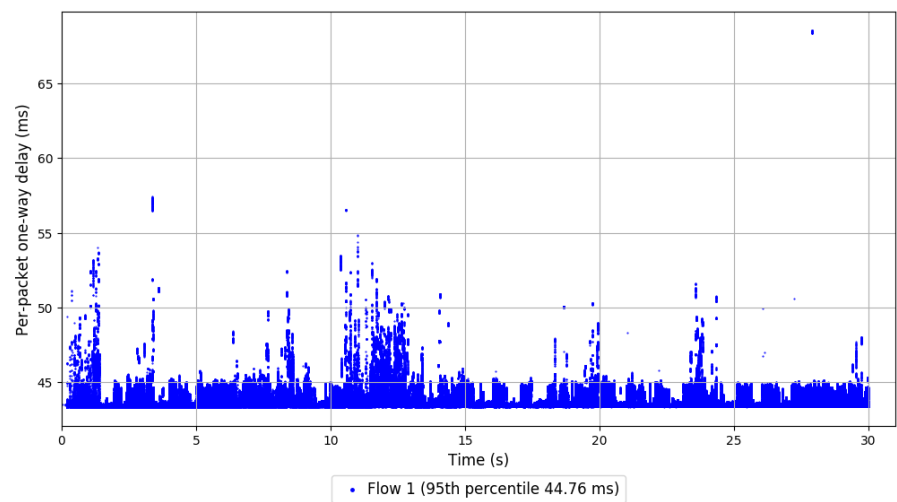
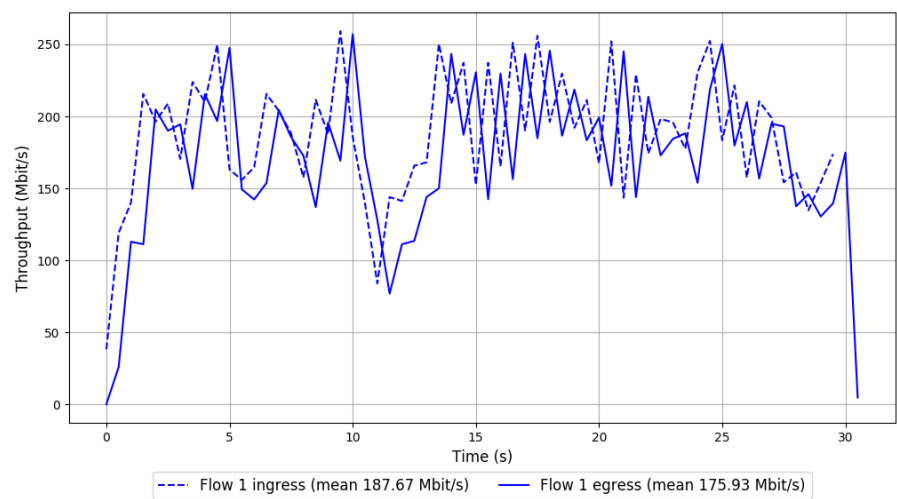


```
Run 1: Statistics of TaoVA-100x

Start at: 2021-03-07 19:21:51
End at: 2021-03-07 19:22:21

# Below is generated by plot.py at 2021-03-07 20:01:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 175.93 Mbit/s
95th percentile per-packet one-way delay: 44.763 ms
Loss rate: 6.26%
-- Flow 1:
Average throughput: 175.93 Mbit/s
95th percentile per-packet one-way delay: 44.763 ms
Loss rate: 6.26%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2021-03-07 19:30:59

End at: 2021-03-07 19:31:29

Below is generated by plot.py at 2021-03-07 20:01:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 163.16 Mbit/s

95th percentile per-packet one-way delay: 36.901 ms

Loss rate: 4.98%

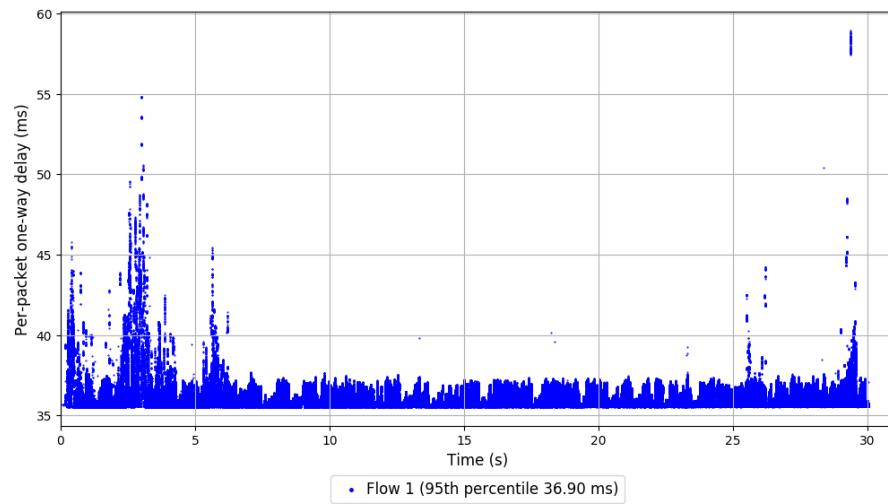
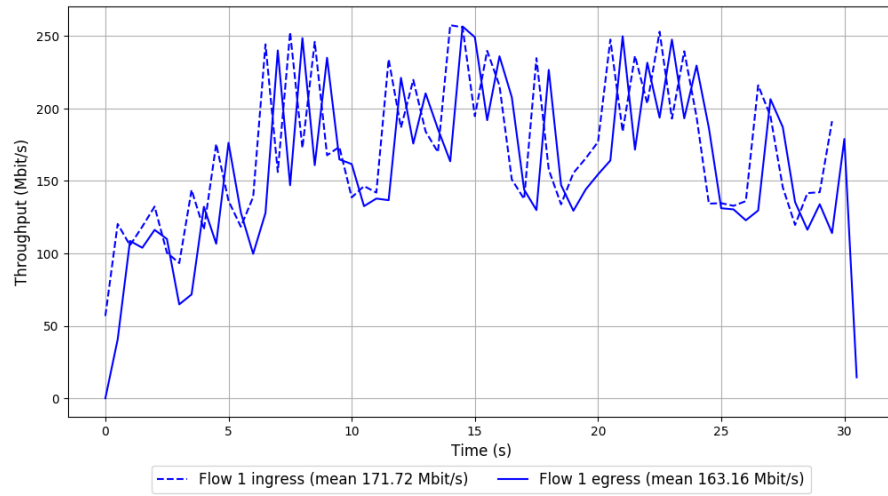
-- Flow 1:

Average throughput: 163.16 Mbit/s

95th percentile per-packet one-way delay: 36.901 ms

Loss rate: 4.98%

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



Run 3: Statistics of TaoVA-100x

Start at: 2021-03-07 19:39:55

End at: 2021-03-07 19:40:26

Below is generated by plot.py at 2021-03-07 20:02:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 126.91 Mbit/s

95th percentile per-packet one-way delay: 45.475 ms

Loss rate: 9.37%

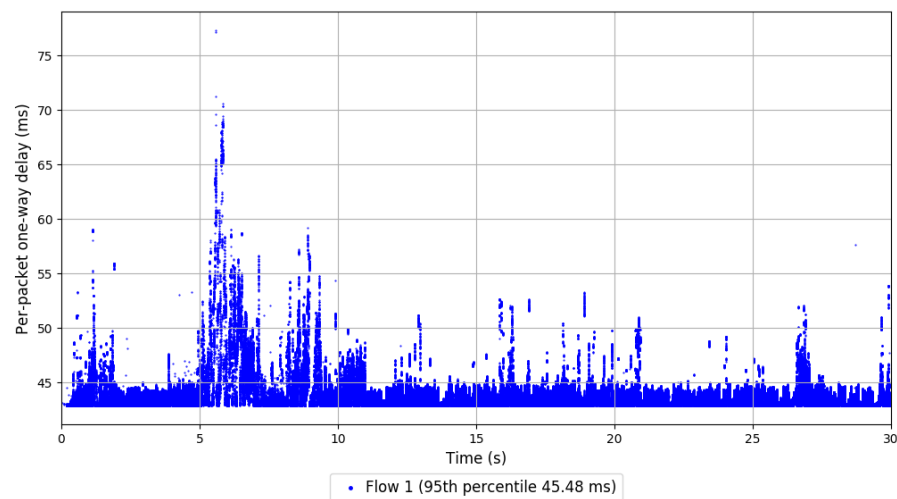
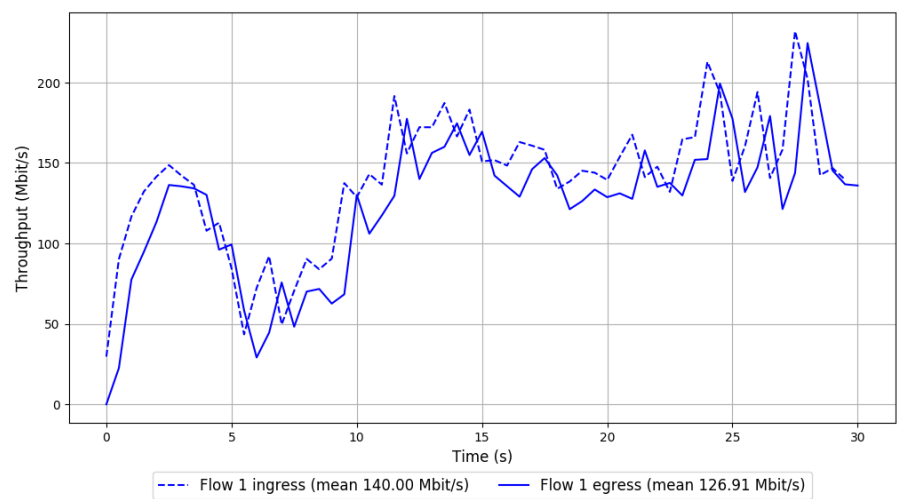
-- Flow 1:

Average throughput: 126.91 Mbit/s

95th percentile per-packet one-way delay: 45.475 ms

Loss rate: 9.37%

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



Run 1: Statistics of TCP Vegas

Start at: 2021-03-07 19:19:03

End at: 2021-03-07 19:19:33

Below is generated by plot.py at 2021-03-07 20:02:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.49 Mbit/s

95th percentile per-packet one-way delay: 44.199 ms

Loss rate: 0.28%

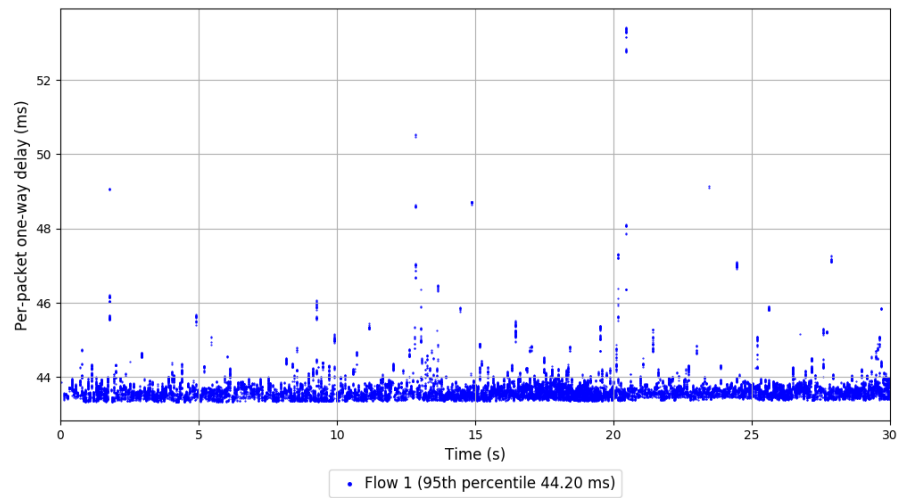
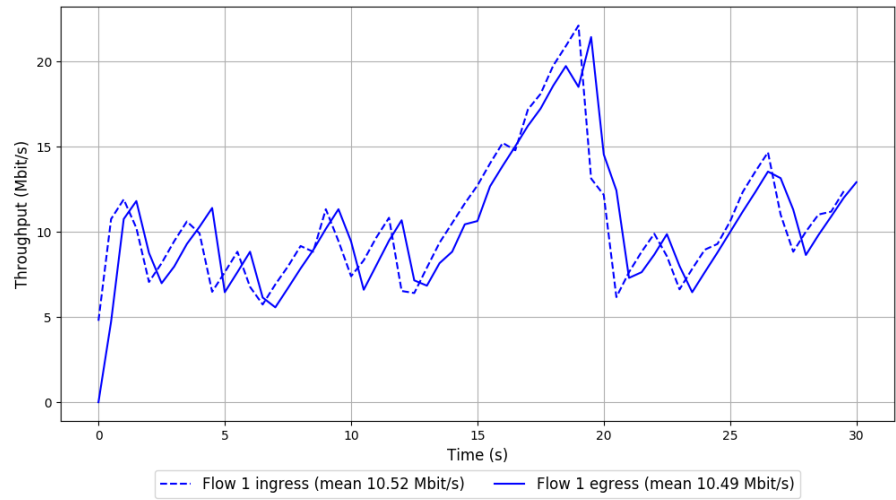
-- Flow 1:

Average throughput: 10.49 Mbit/s

95th percentile per-packet one-way delay: 44.199 ms

Loss rate: 0.28%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2021-03-07 19:28:13

End at: 2021-03-07 19:28:43

Below is generated by plot.py at 2021-03-07 20:02:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.72 Mbit/s

95th percentile per-packet one-way delay: 36.284 ms

Loss rate: 0.56%

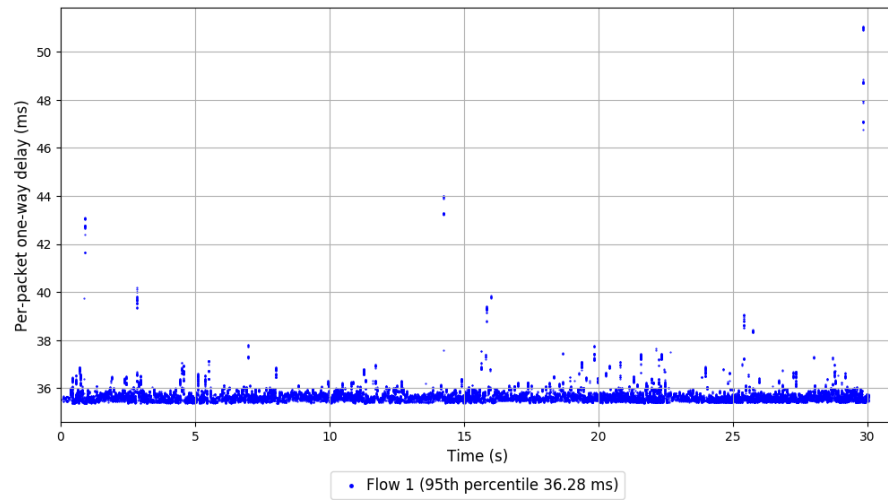
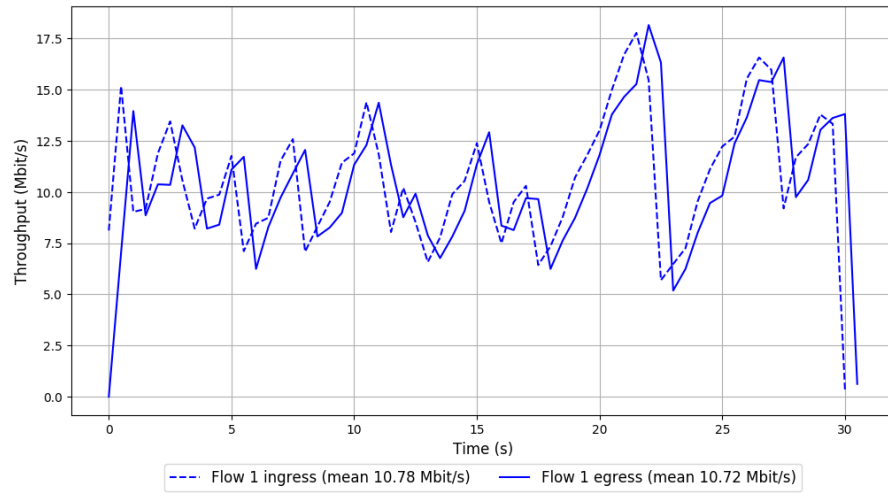
-- Flow 1:

Average throughput: 10.72 Mbit/s

95th percentile per-packet one-way delay: 36.284 ms

Loss rate: 0.56%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2021-03-07 19:37:11

End at: 2021-03-07 19:37:41

Below is generated by plot.py at 2021-03-07 20:02:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.66 Mbit/s

95th percentile per-packet one-way delay: 35.844 ms

Loss rate: 0.35%

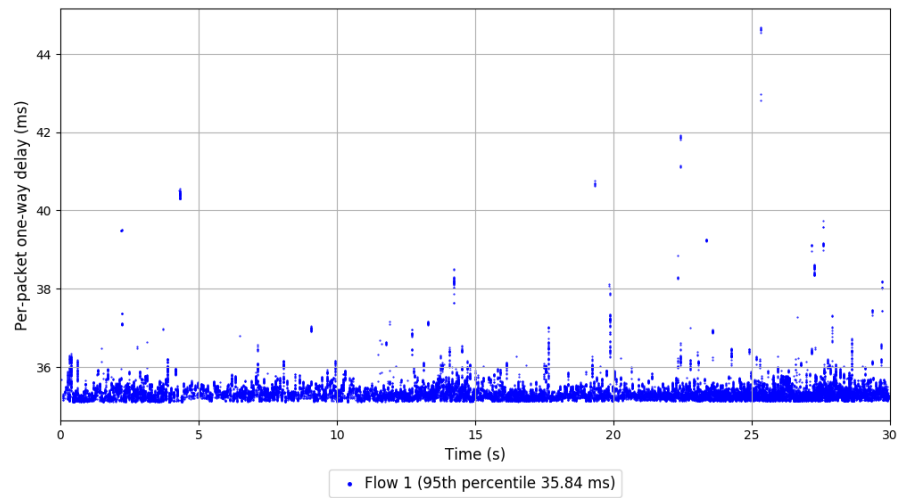
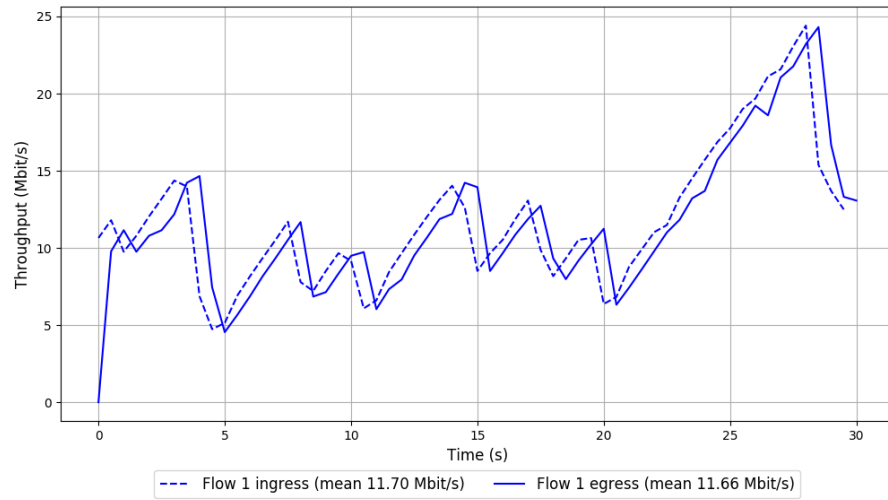
-- Flow 1:

Average throughput: 11.66 Mbit/s

95th percentile per-packet one-way delay: 35.844 ms

Loss rate: 0.35%

Run 3: Report of TCP Vegas — Data Link

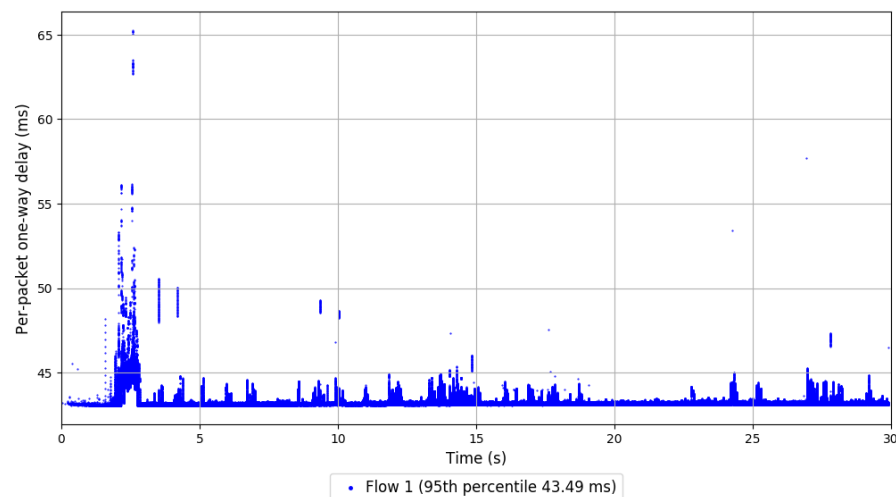
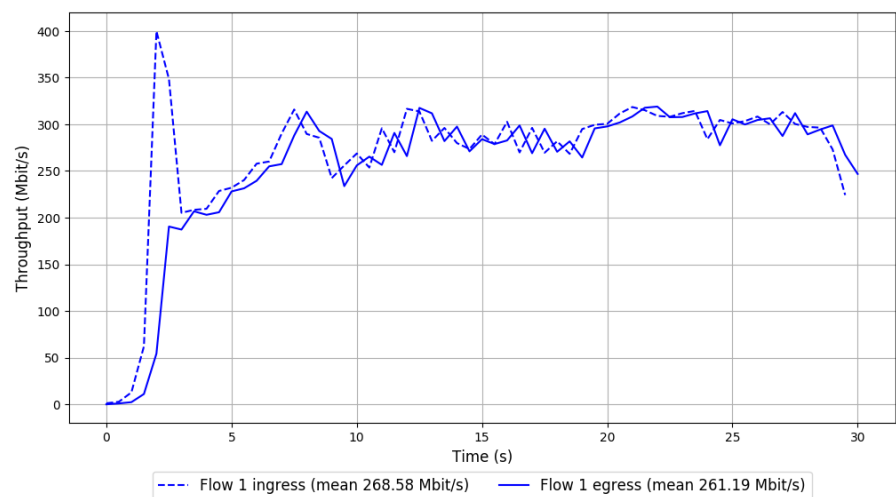


```
Run 1: Statistics of PCC-Vivace

Start at: 2021-03-07 19:17:23
End at: 2021-03-07 19:17:53

# Below is generated by plot.py at 2021-03-07 20:03:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 261.19 Mbit/s
95th percentile per-packet one-way delay: 43.488 ms
Loss rate: 2.79%
-- Flow 1:
Average throughput: 261.19 Mbit/s
95th percentile per-packet one-way delay: 43.488 ms
Loss rate: 2.79%
```

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2021-03-07 19:26:36

End at: 2021-03-07 19:27:06

Below is generated by plot.py at 2021-03-07 20:03:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 233.93 Mbit/s

95th percentile per-packet one-way delay: 42.372 ms

Loss rate: 1.06%

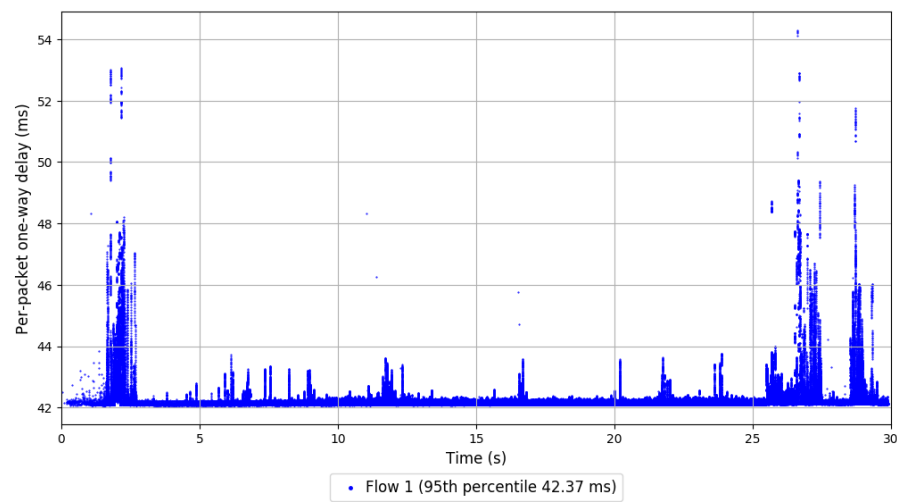
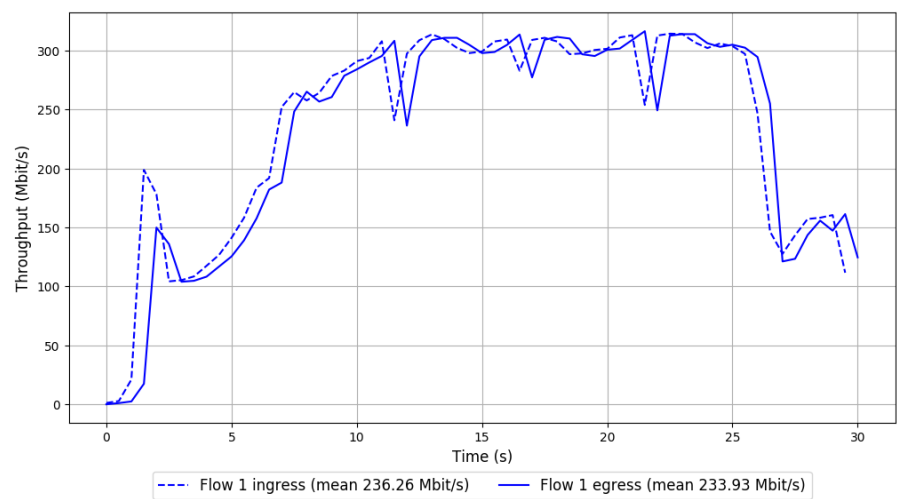
-- Flow 1:

Average throughput: 233.93 Mbit/s

95th percentile per-packet one-way delay: 42.372 ms

Loss rate: 1.06%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2021-03-07 19:35:41

End at: 2021-03-07 19:36:11

Below is generated by plot.py at 2021-03-07 20:03:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.89 Mbit/s

95th percentile per-packet one-way delay: 36.548 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 79.89 Mbit/s

95th percentile per-packet one-way delay: 36.548 ms

Loss rate: 0.36%

Run 3: Report of PCC-Vivace — Data Link

