

Pantheon Report

Generated at 2021-03-08 00:11:07 (UTC).

Data path: (*local*) → (*remote*).

Repeated the test of 12 congestion control schemes 3 times.

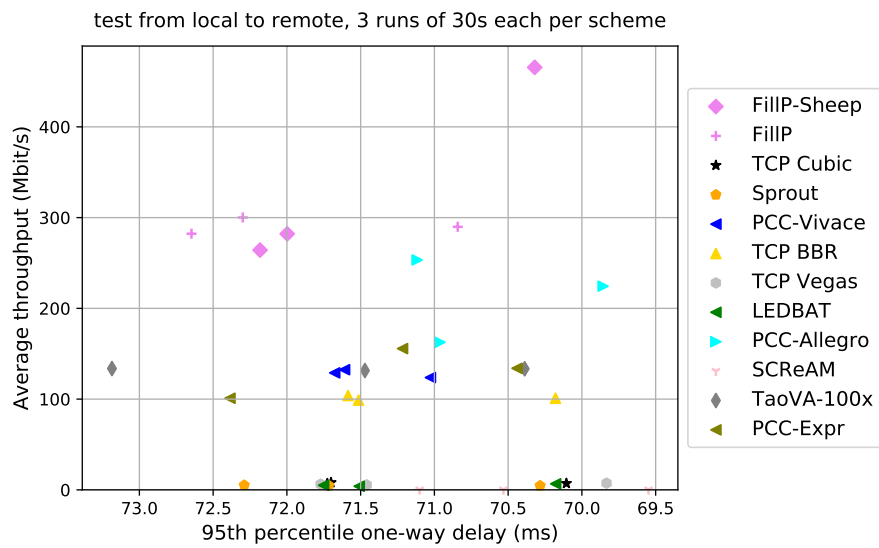
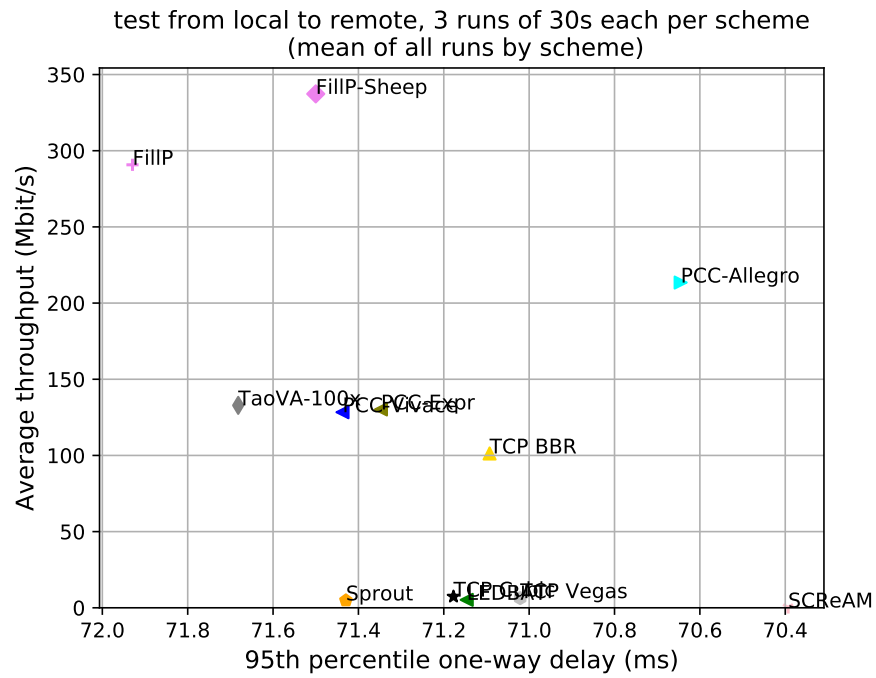
Each test lasted for 30 seconds running 1 flow.

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 @ 1b68c284c774edf48cf9015886c165fa06bf8a88
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 | 101.30 | 71.09 | 1.45 |
| TCP Cubic | 3 | 7.34 | 71.18 | 0.71 |
| FillP | 3 | 290.75 | 71.93 | 10.13 |
| FillP-Sheep | 3 | 337.29 | 71.50 | 6.80 |
| LEDBAT | 3 | 5.22 | 71.15 | 0.64 |
| PCC-Allegro | 3 | 213.47 | 70.64 | 2.61 |
| PCC-Expr | 3 | 130.17 | 71.35 | 2.75 |
| SCReAM | 3 | 0.22 | 70.39 | 0.00 |
| Sprout | 3 | 4.85 | 71.43 | 4.92 |
| TaoVA-100x | 3 | 132.86 | 71.68 | 7.03 |
| TCP Vegas | 3 | 6.35 | 71.02 | 0.73 |
| PCC-Vivace | 3 | 128.36 | 71.44 | 2.02 |

Run 1: Statistics of TCP BBR

Start at: 2021-03-07 23:37:15

End at: 2021-03-07 23:37:45

Below is generated by plot.py at 2021-03-08 00:02:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.91 Mbit/s

95th percentile per-packet one-way delay: 71.514 ms

Loss rate: 1.45%

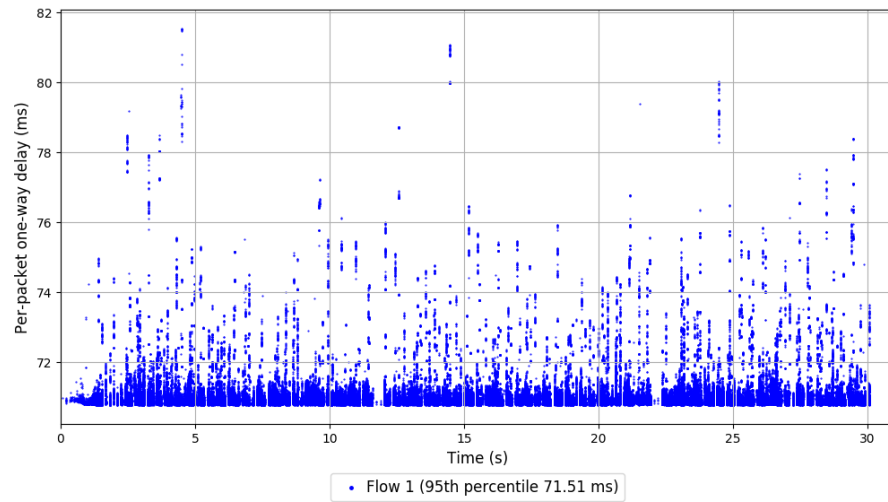
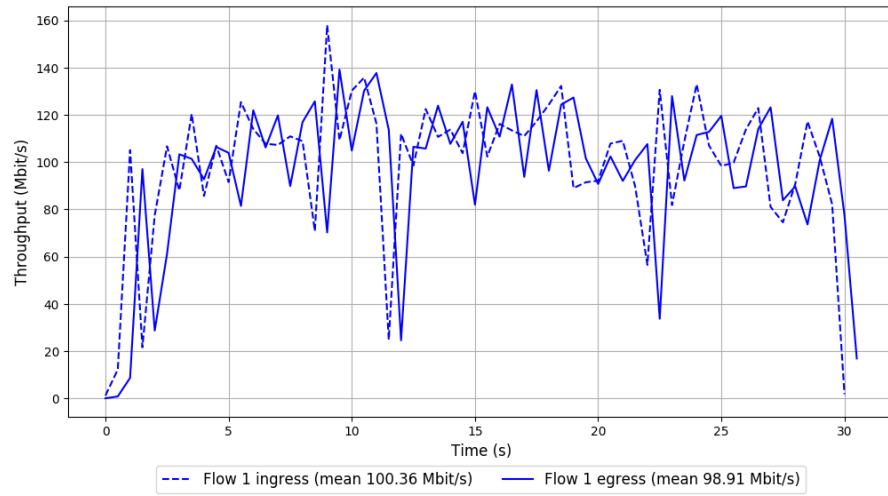
-- Flow 1:

Average throughput: 98.91 Mbit/s

95th percentile per-packet one-way delay: 71.514 ms

Loss rate: 1.45%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2021-03-07 23:46:44

End at: 2021-03-07 23:47:14

Below is generated by plot.py at 2021-03-08 00:02:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.02 Mbit/s

95th percentile per-packet one-way delay: 71.585 ms

Loss rate: 1.09%

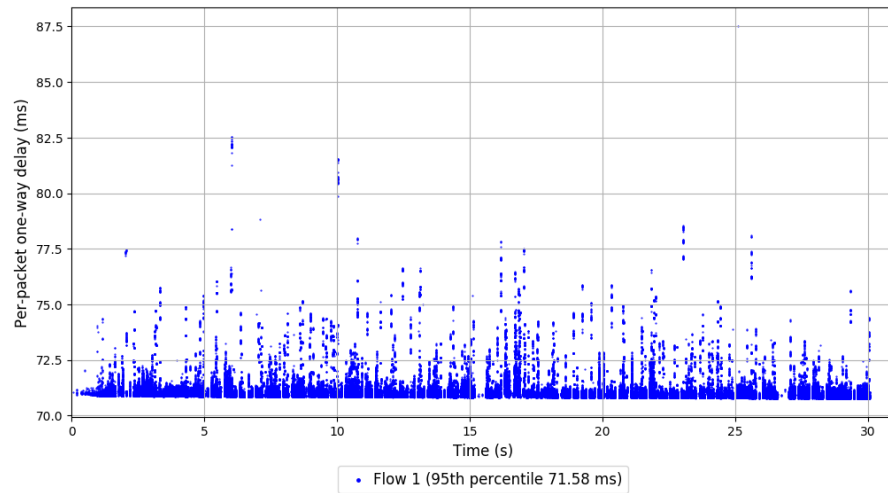
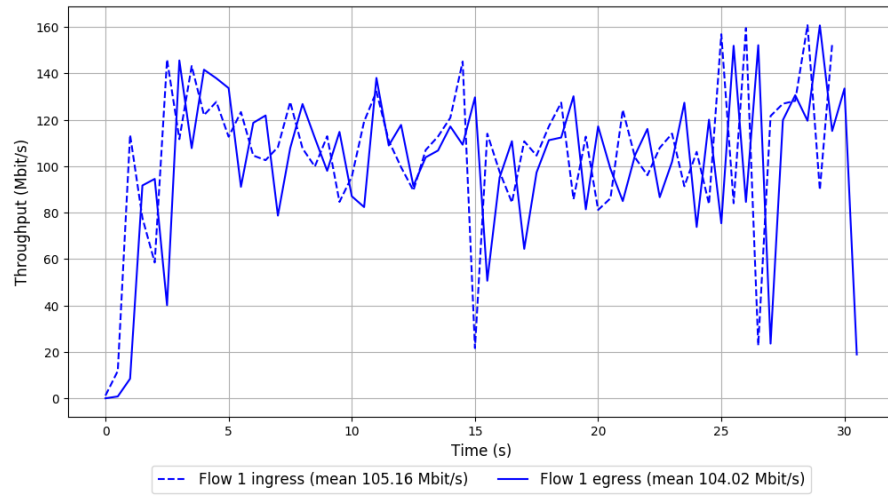
-- Flow 1:

Average throughput: 104.02 Mbit/s

95th percentile per-packet one-way delay: 71.585 ms

Loss rate: 1.09%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2021-03-07 23:56:30

End at: 2021-03-07 23:57:00

Below is generated by plot.py at 2021-03-08 00:02:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.96 Mbit/s

95th percentile per-packet one-way delay: 70.179 ms

Loss rate: 1.82%

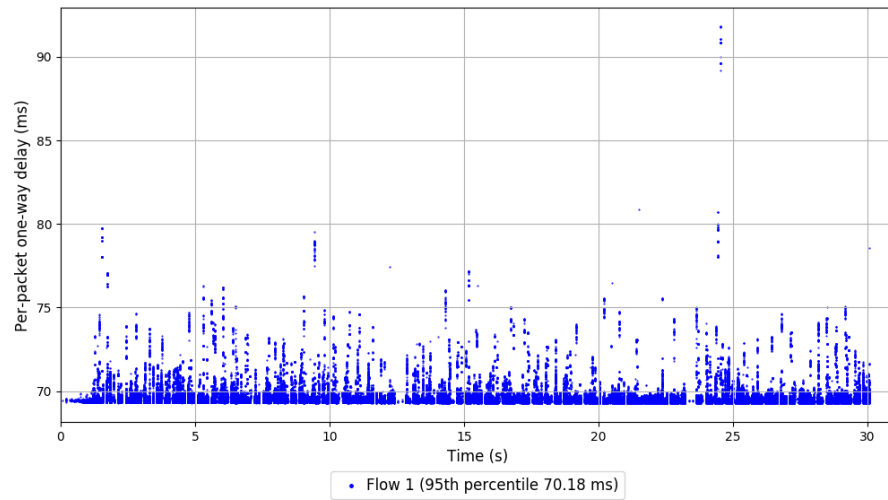
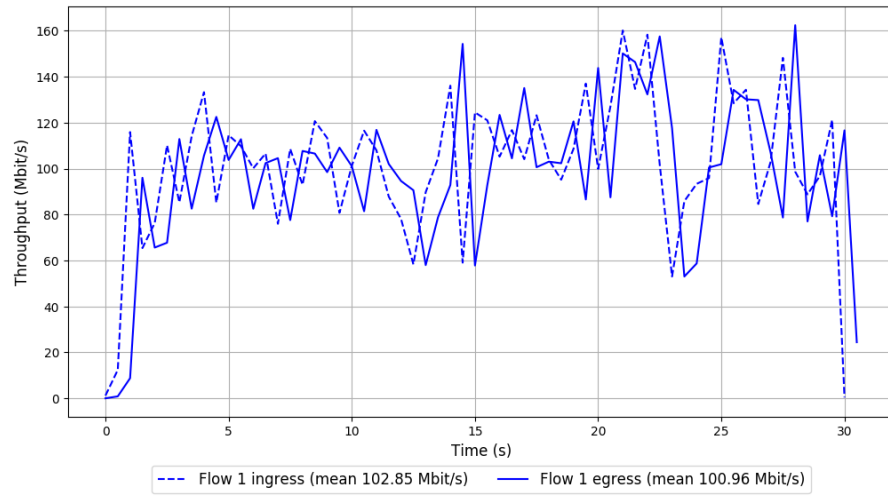
-- Flow 1:

Average throughput: 100.96 Mbit/s

95th percentile per-packet one-way delay: 70.179 ms

Loss rate: 1.82%

Run 3: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2021-03-07 23:34:58

End at: 2021-03-07 23:35:28

Below is generated by plot.py at 2021-03-08 00:02:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 71.701 ms

Loss rate: 0.66%

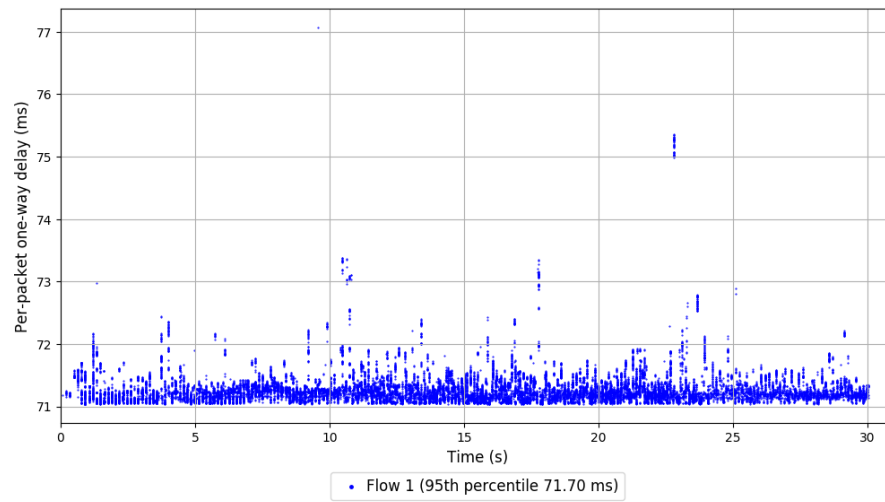
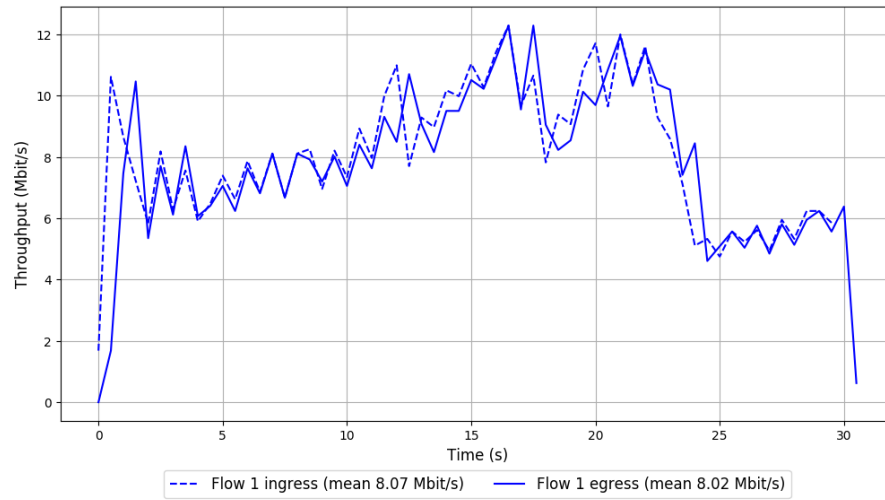
-- Flow 1:

Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 71.701 ms

Loss rate: 0.66%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2021-03-07 23:44:28

End at: 2021-03-07 23:44:58

Below is generated by plot.py at 2021-03-08 00:02:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.85 Mbit/s

95th percentile per-packet one-way delay: 71.726 ms

Loss rate: 0.50%

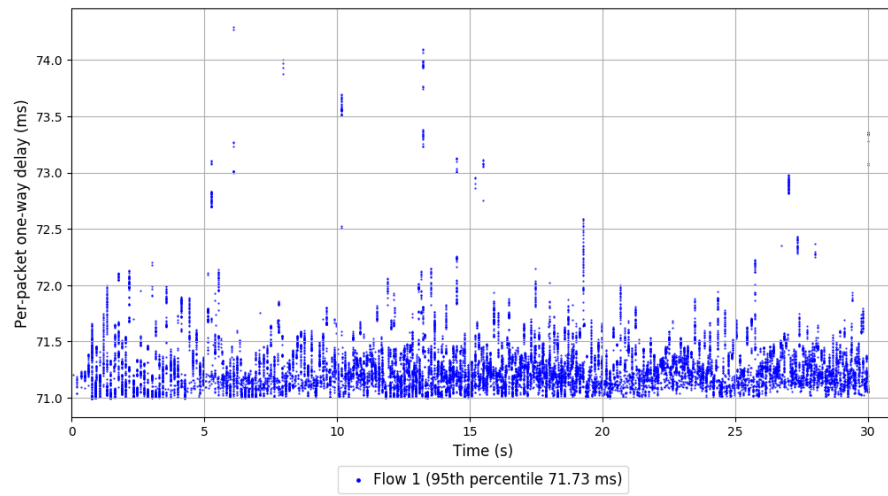
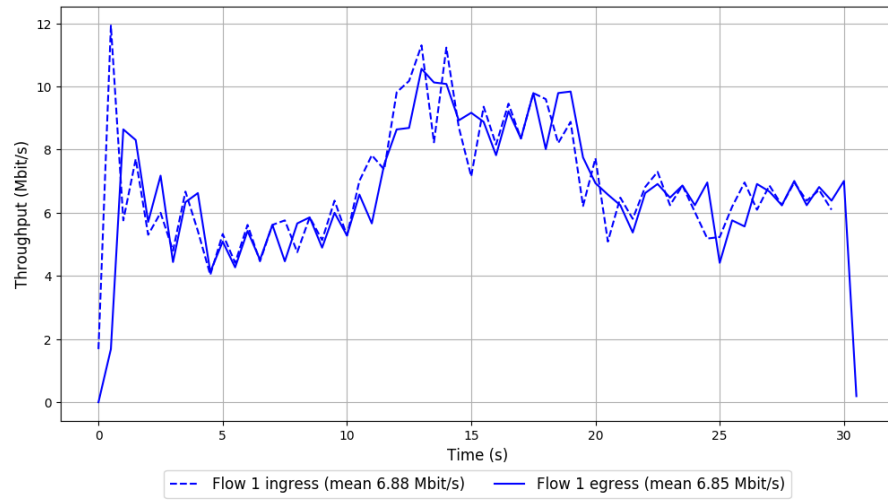
-- Flow 1:

Average throughput: 6.85 Mbit/s

95th percentile per-packet one-way delay: 71.726 ms

Loss rate: 0.50%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2021-03-07 23:54:14

End at: 2021-03-07 23:54:44

Below is generated by plot.py at 2021-03-08 00:02:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 70.105 ms

Loss rate: 0.97%

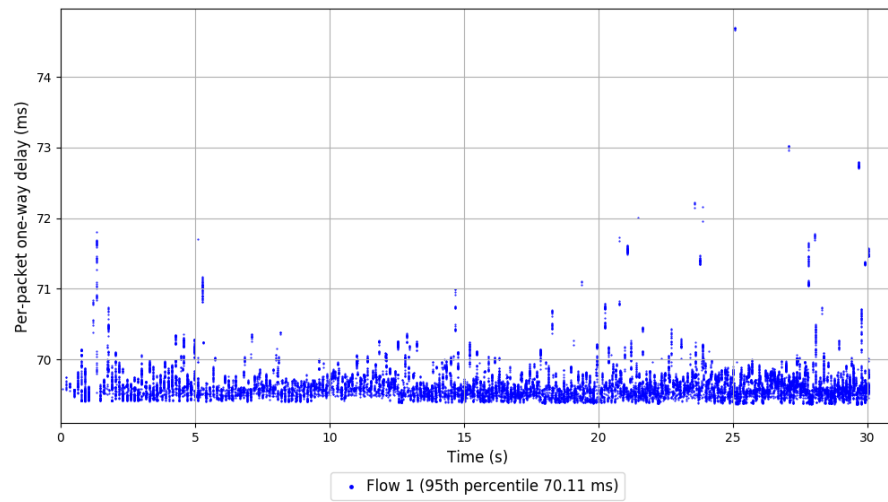
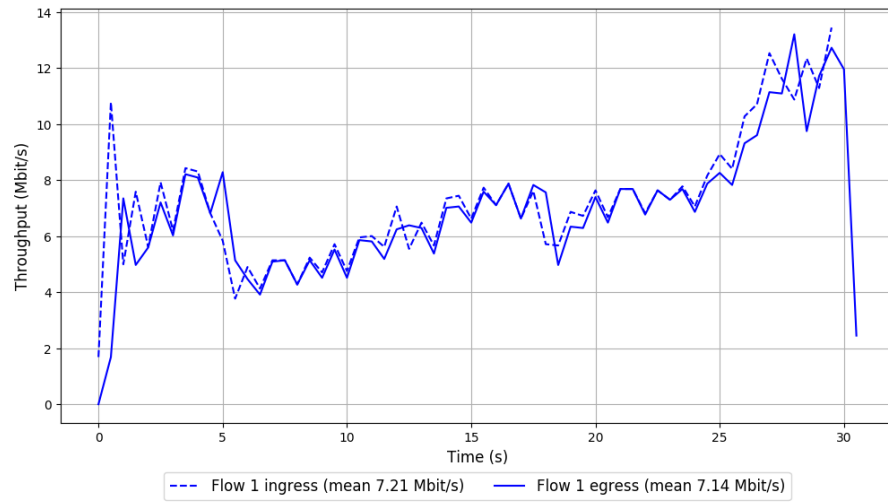
-- Flow 1:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 70.105 ms

Loss rate: 0.97%

Run 3: Report of TCP Cubic — Data Link

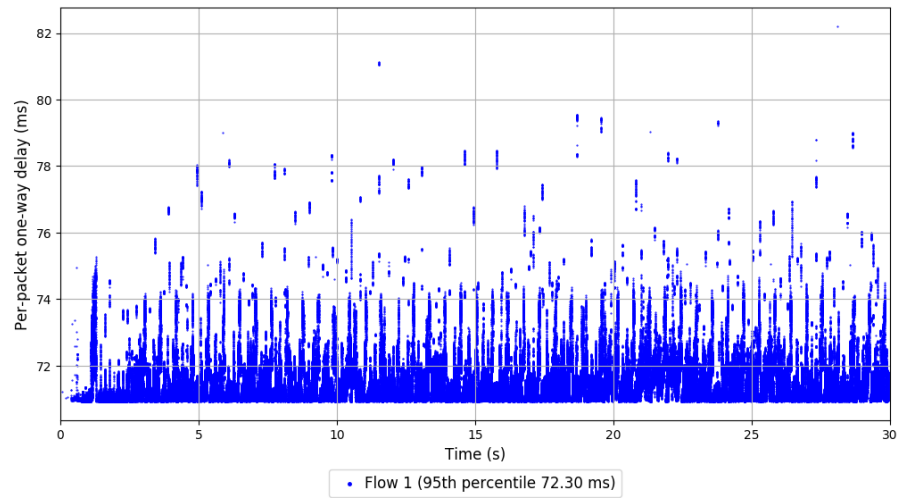
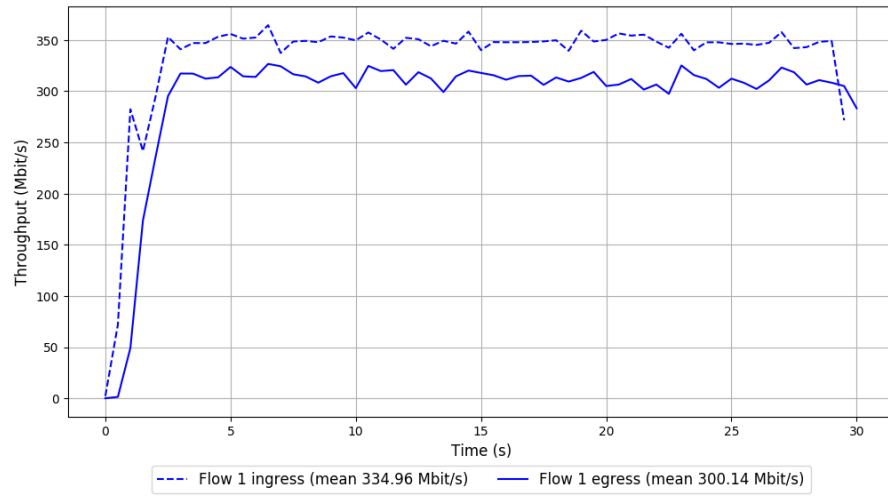


```
Run 1: Statistics of FillP

Start at: 2021-03-07 23:34:04
End at: 2021-03-07 23:34:34

# Below is generated by plot.py at 2021-03-08 00:03:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 300.14 Mbit/s
95th percentile per-packet one-way delay: 72.299 ms
Loss rate: 10.39%
-- Flow 1:
Average throughput: 300.14 Mbit/s
95th percentile per-packet one-way delay: 72.299 ms
Loss rate: 10.39%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2021-03-07 23:43:35

End at: 2021-03-07 23:44:05

Below is generated by plot.py at 2021-03-08 00:03:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 282.26 Mbit/s

95th percentile per-packet one-way delay: 72.647 ms

Loss rate: 10.70%

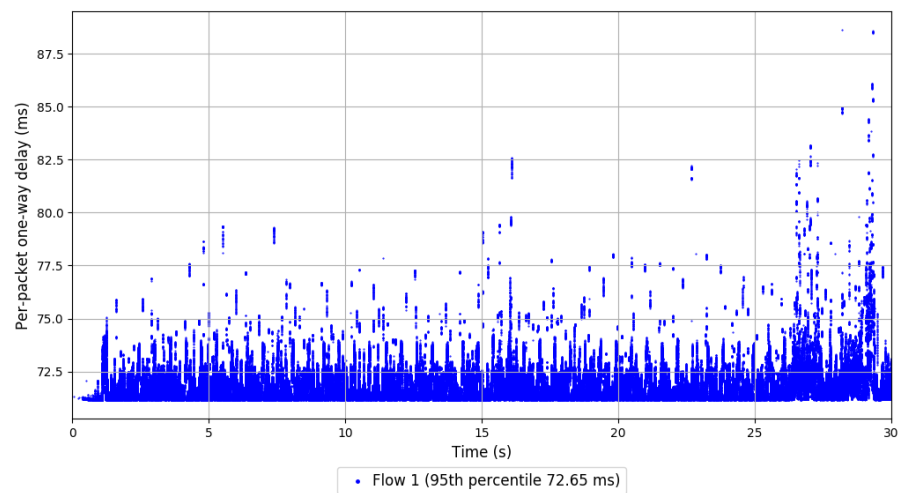
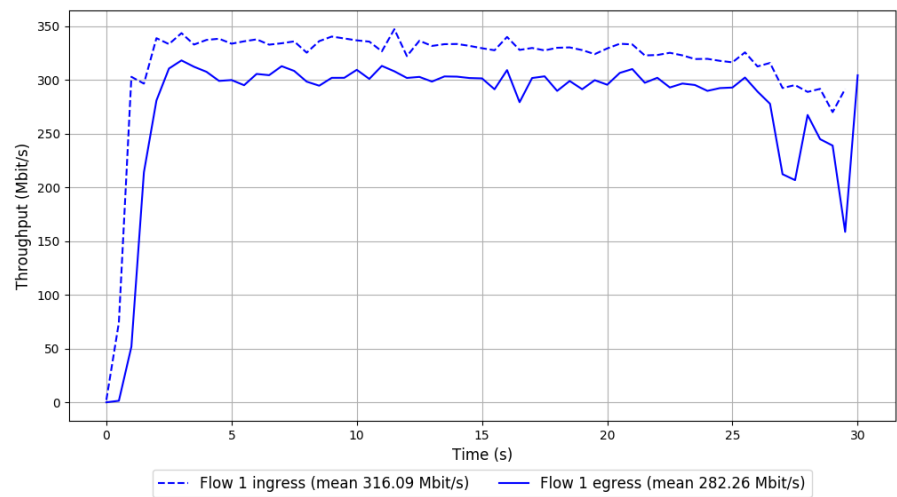
-- Flow 1:

Average throughput: 282.26 Mbit/s

95th percentile per-packet one-way delay: 72.647 ms

Loss rate: 10.70%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2021-03-07 23:53:20

End at: 2021-03-07 23:53:50

Below is generated by plot.py at 2021-03-08 00:05:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 289.86 Mbit/s

95th percentile per-packet one-way delay: 70.842 ms

Loss rate: 9.30%

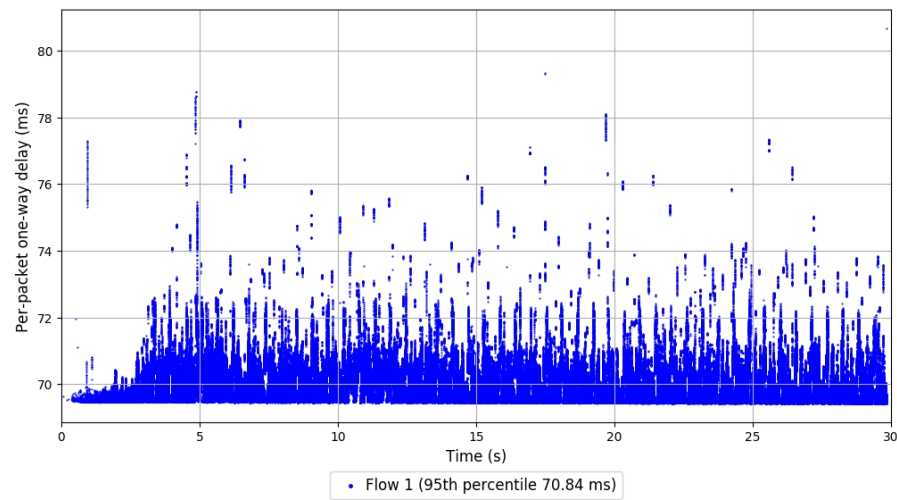
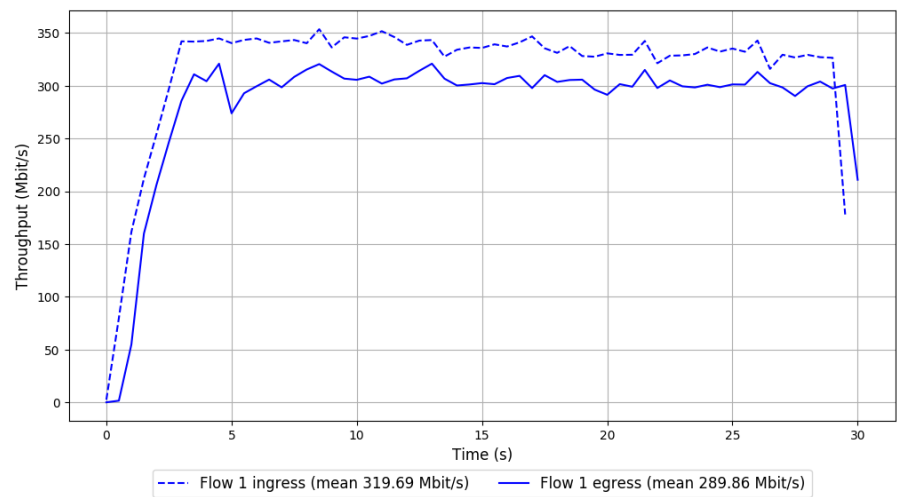
-- Flow 1:

Average throughput: 289.86 Mbit/s

95th percentile per-packet one-way delay: 70.842 ms

Loss rate: 9.30%

Run 3: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2021-03-07 23:33:11

End at: 2021-03-07 23:33:41

Below is generated by plot.py at 2021-03-08 00:05:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 282.10 Mbit/s

95th percentile per-packet one-way delay: 71.998 ms

Loss rate: 7.23%

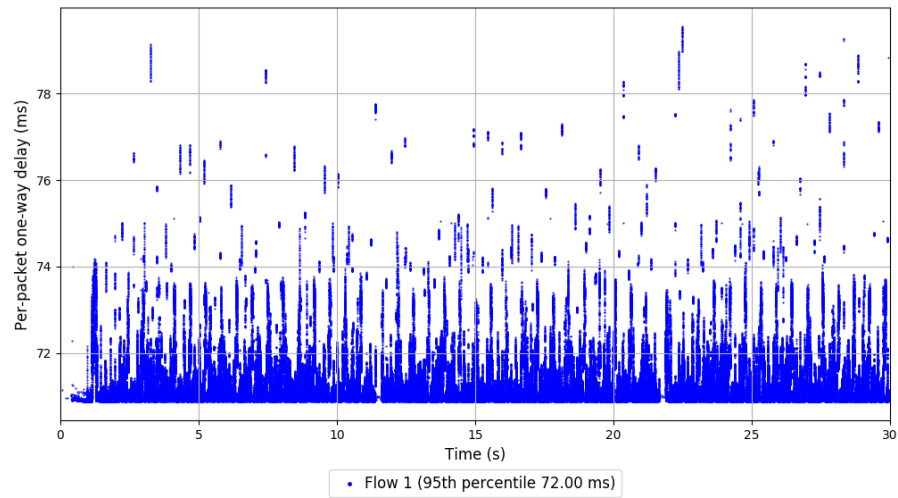
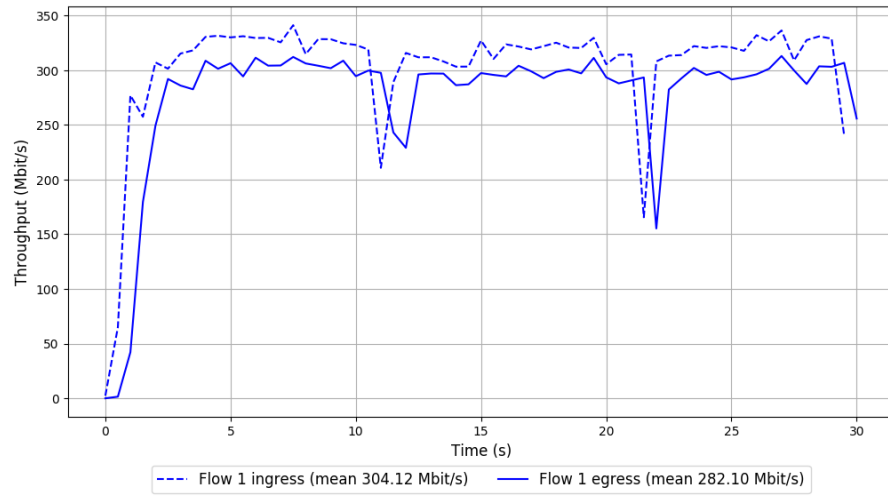
-- Flow 1:

Average throughput: 282.10 Mbit/s

95th percentile per-packet one-way delay: 71.998 ms

Loss rate: 7.23%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2021-03-07 23:42:42

End at: 2021-03-07 23:43:12

Below is generated by plot.py at 2021-03-08 00:05:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 264.22 Mbit/s

95th percentile per-packet one-way delay: 72.182 ms

Loss rate: 7.79%

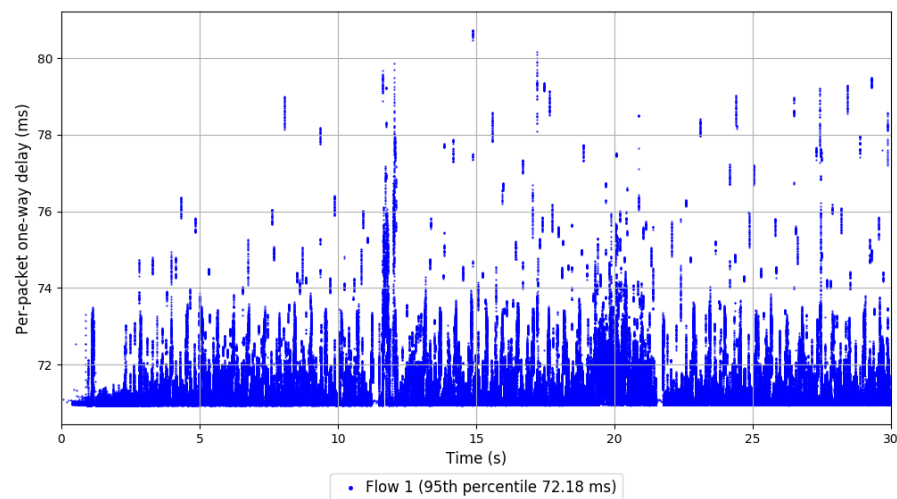
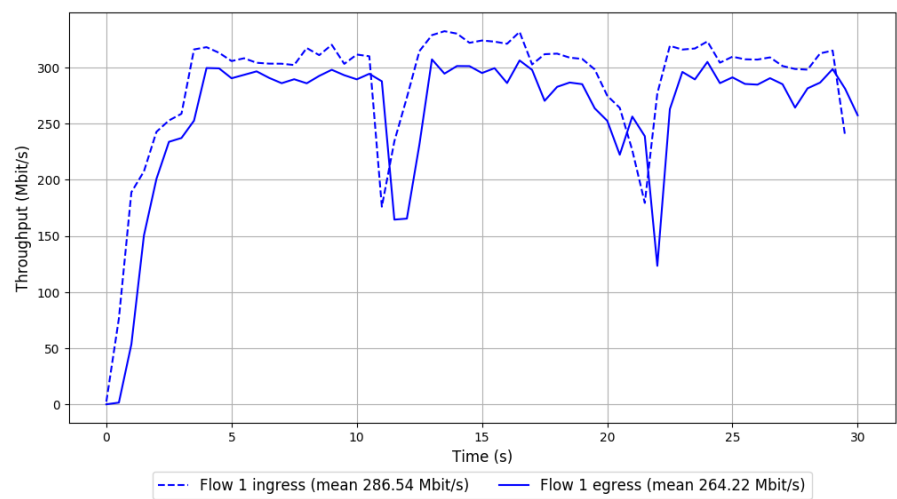
-- Flow 1:

Average throughput: 264.22 Mbit/s

95th percentile per-packet one-way delay: 72.182 ms

Loss rate: 7.79%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2021-03-07 23:52:19

End at: 2021-03-07 23:52:49

Below is generated by plot.py at 2021-03-08 00:06:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 465.56 Mbit/s

95th percentile per-packet one-way delay: 70.320 ms

Loss rate: 5.38%

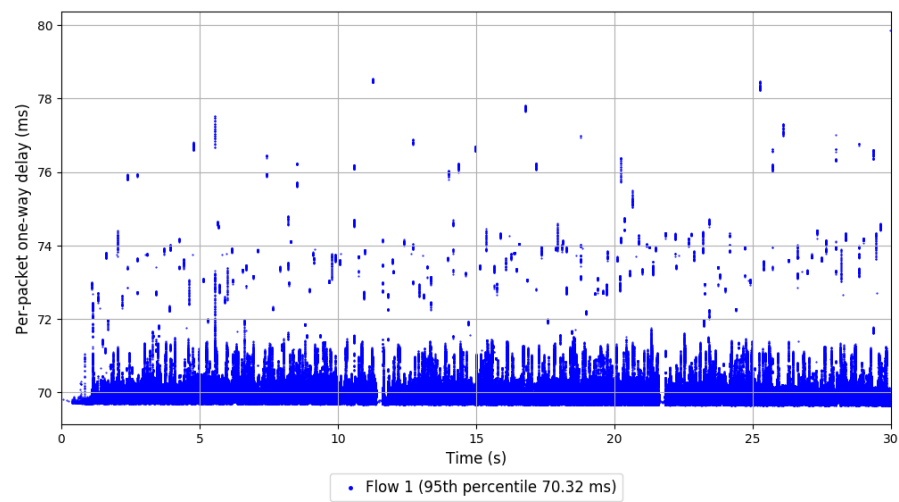
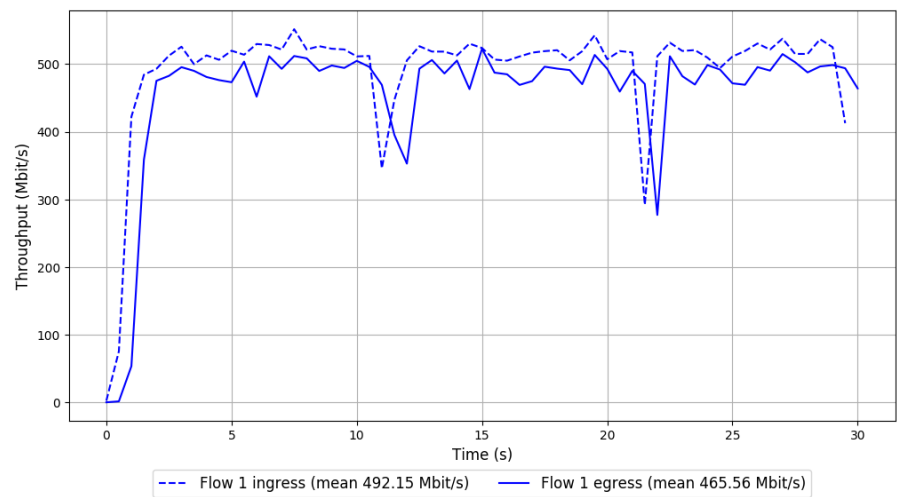
-- Flow 1:

Average throughput: 465.56 Mbit/s

95th percentile per-packet one-way delay: 70.320 ms

Loss rate: 5.38%

Run 3: Report of FillP-Sheep — Data Link

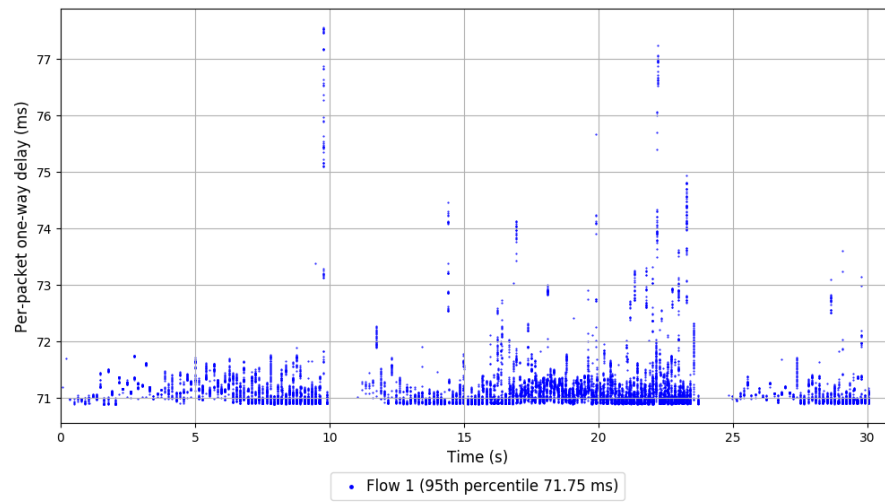
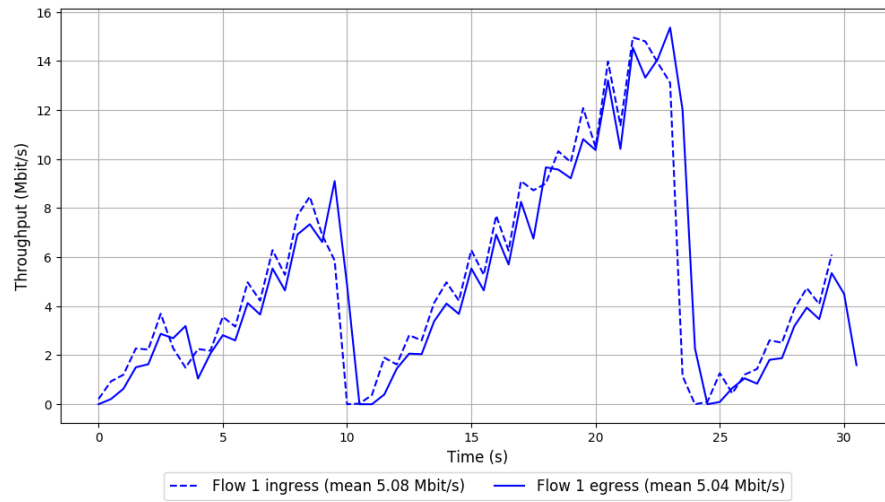


```
Run 1: Statistics of LEDBAT

Start at: 2021-03-07 23:38:44
End at: 2021-03-07 23:39:14

# Below is generated by plot.py at 2021-03-08 00:06:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.04 Mbit/s
95th percentile per-packet one-way delay: 71.751 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 5.04 Mbit/s
95th percentile per-packet one-way delay: 71.751 ms
Loss rate: 0.79%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2021-03-07 23:48:14

End at: 2021-03-07 23:48:44

Below is generated by plot.py at 2021-03-08 00:06:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.98 Mbit/s

95th percentile per-packet one-way delay: 71.510 ms

Loss rate: 0.87%

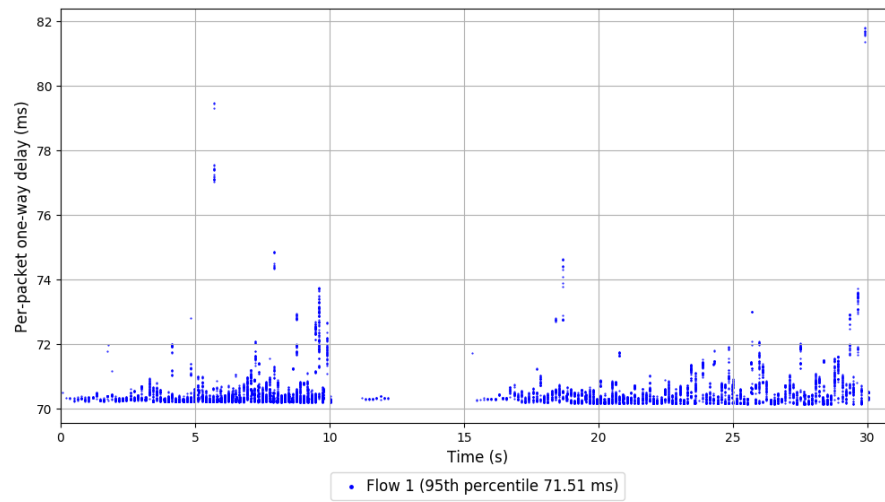
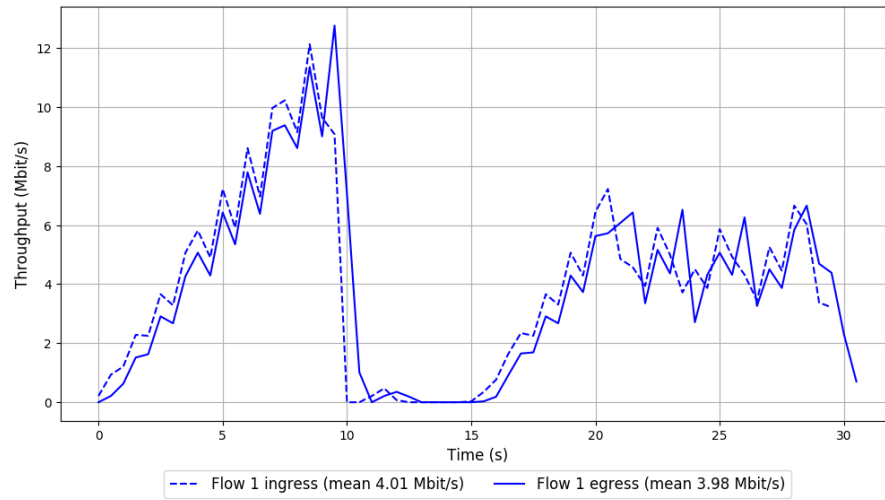
-- Flow 1:

Average throughput: 3.98 Mbit/s

95th percentile per-packet one-way delay: 71.510 ms

Loss rate: 0.87%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2021-03-07 23:58:01

End at: 2021-03-07 23:58:31

Below is generated by plot.py at 2021-03-08 00:06:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.64 Mbit/s

95th percentile per-packet one-way delay: 70.178 ms

Loss rate: 0.26%

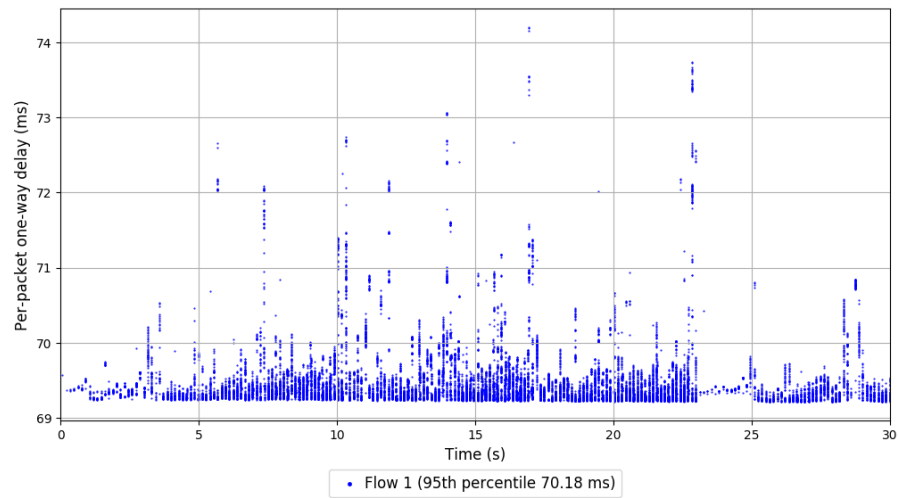
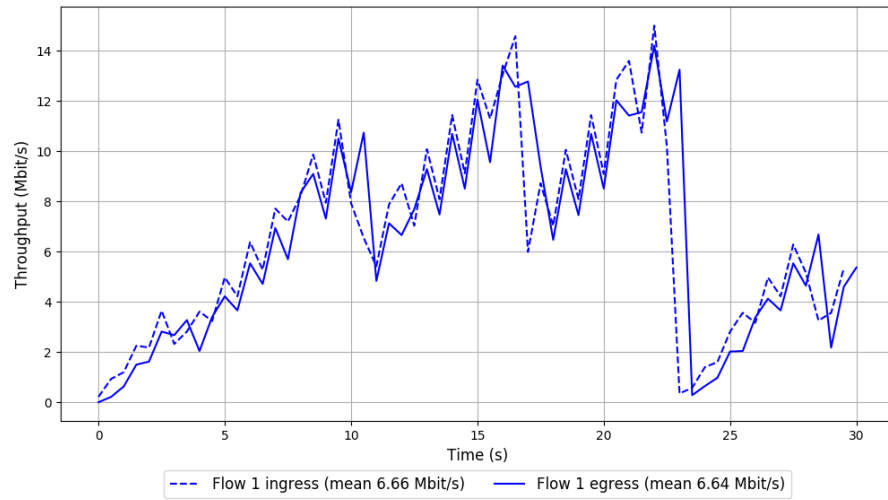
-- Flow 1:

Average throughput: 6.64 Mbit/s

95th percentile per-packet one-way delay: 70.178 ms

Loss rate: 0.26%

Run 3: Report of LEDBAT — Data Link

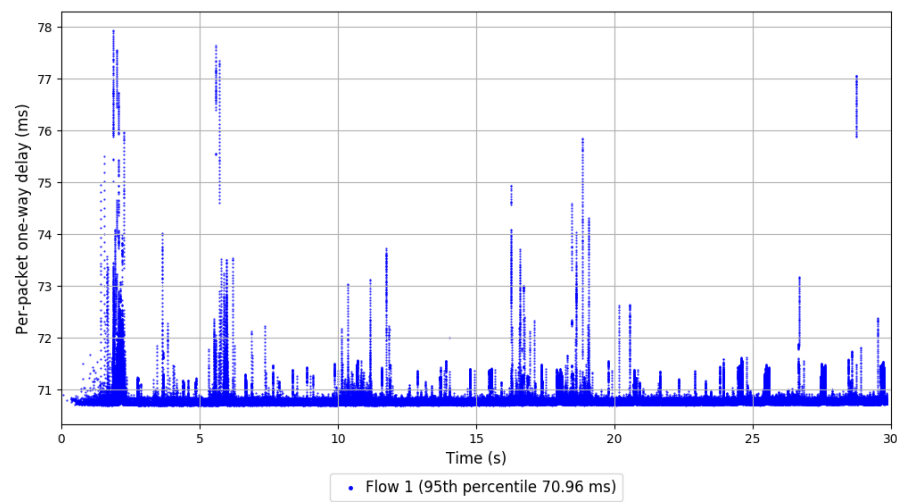
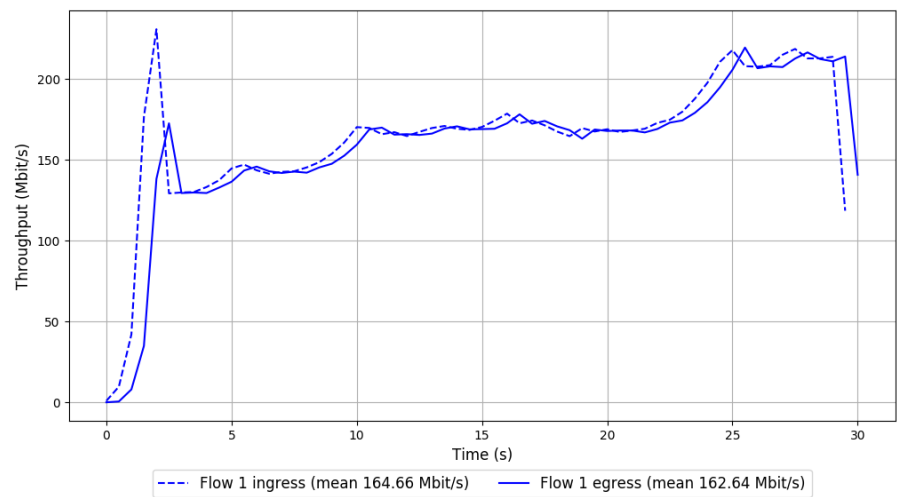


```
Run 1: Statistics of PCC-Allegro

Start at: 2021-03-07 23:39:26
End at: 2021-03-07 23:39:56

# Below is generated by plot.py at 2021-03-08 00:06:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 162.64 Mbit/s
95th percentile per-packet one-way delay: 70.962 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 162.64 Mbit/s
95th percentile per-packet one-way delay: 70.962 ms
Loss rate: 1.23%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2021-03-07 23:48:56

End at: 2021-03-07 23:49:26

Below is generated by plot.py at 2021-03-08 00:07:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.34 Mbit/s

95th percentile per-packet one-way delay: 71.117 ms

Loss rate: 4.11%

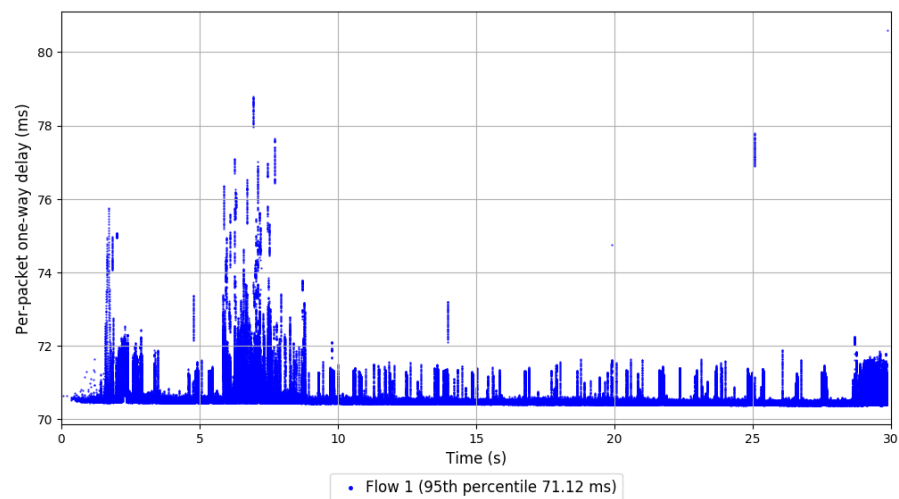
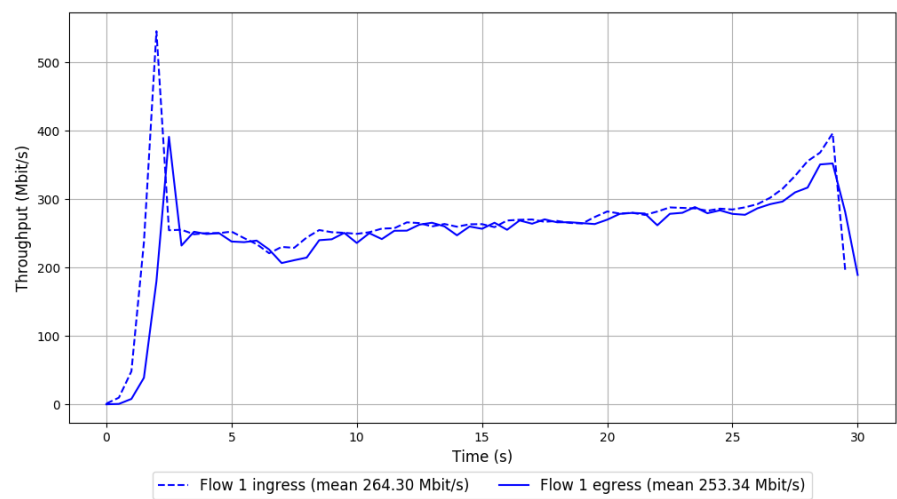
-- Flow 1:

Average throughput: 253.34 Mbit/s

95th percentile per-packet one-way delay: 71.117 ms

Loss rate: 4.11%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2021-03-07 23:58:44

End at: 2021-03-07 23:59:14

Below is generated by plot.py at 2021-03-08 00:07:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.43 Mbit/s

95th percentile per-packet one-way delay: 69.856 ms

Loss rate: 2.50%

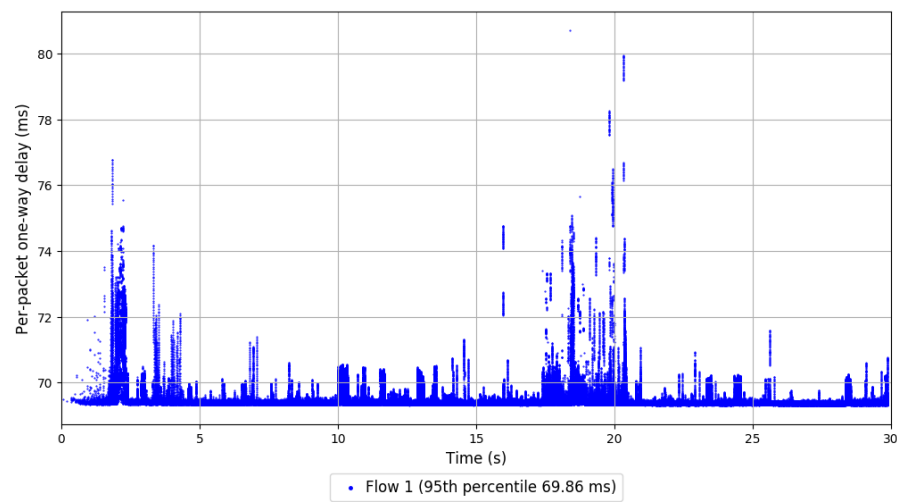
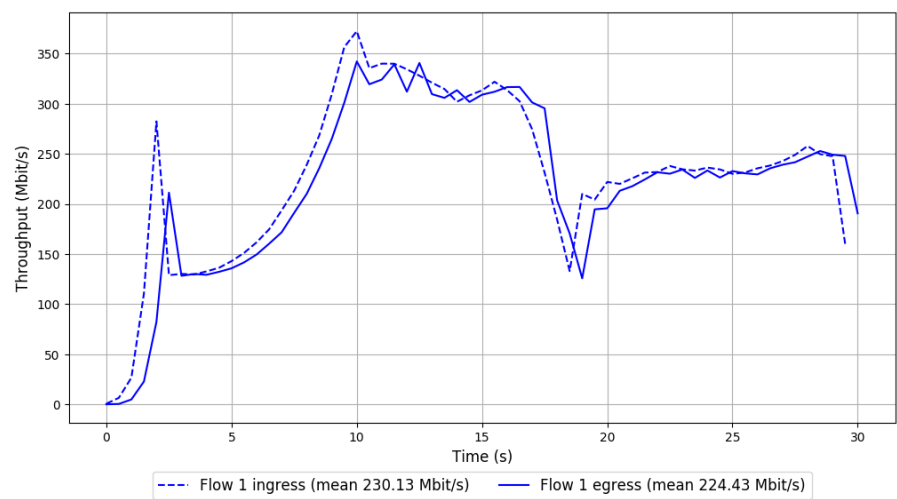
-- Flow 1:

Average throughput: 224.43 Mbit/s

95th percentile per-packet one-way delay: 69.856 ms

Loss rate: 2.50%

Run 3: Report of PCC-Allegro — Data Link

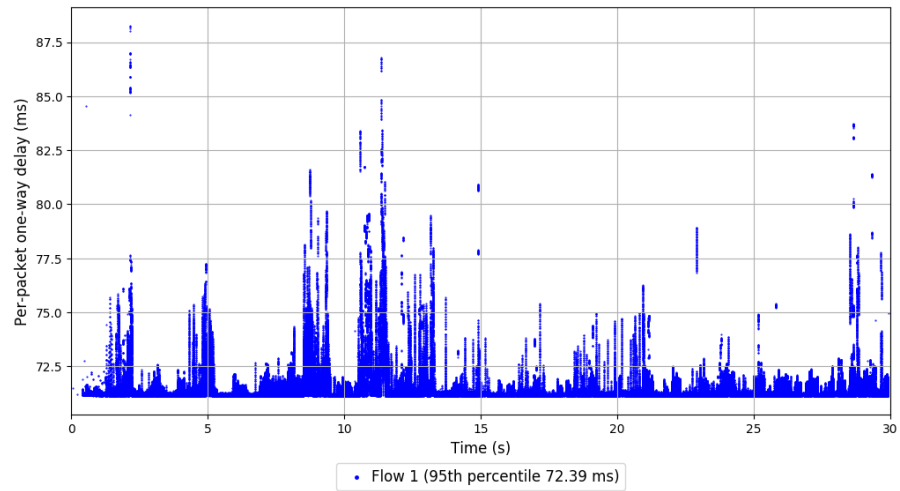
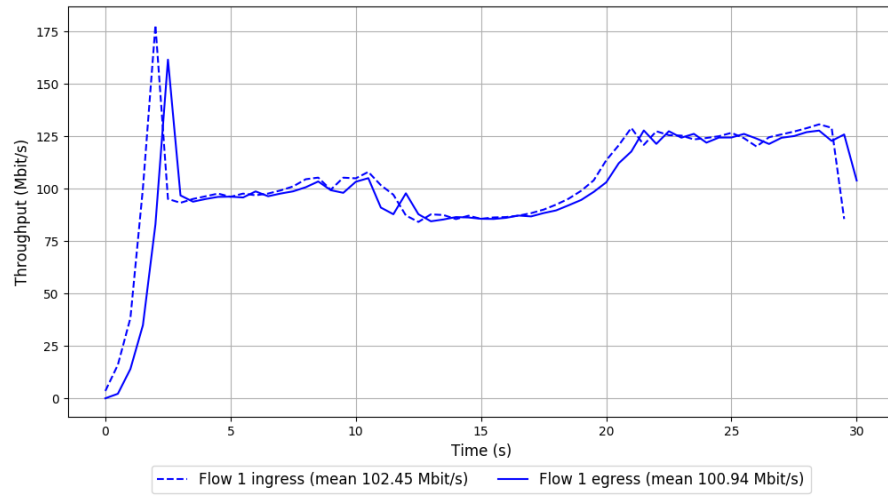


```
Run 1: Statistics of PCC-Expr

Start at: 2021-03-07 23:41:51
End at: 2021-03-07 23:42:21

# Below is generated by plot.py at 2021-03-08 00:08:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 100.94 Mbit/s
95th percentile per-packet one-way delay: 72.386 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 100.94 Mbit/s
95th percentile per-packet one-way delay: 72.386 ms
Loss rate: 1.46%
```


Run 1: Report of PCC-Expr — Data Link

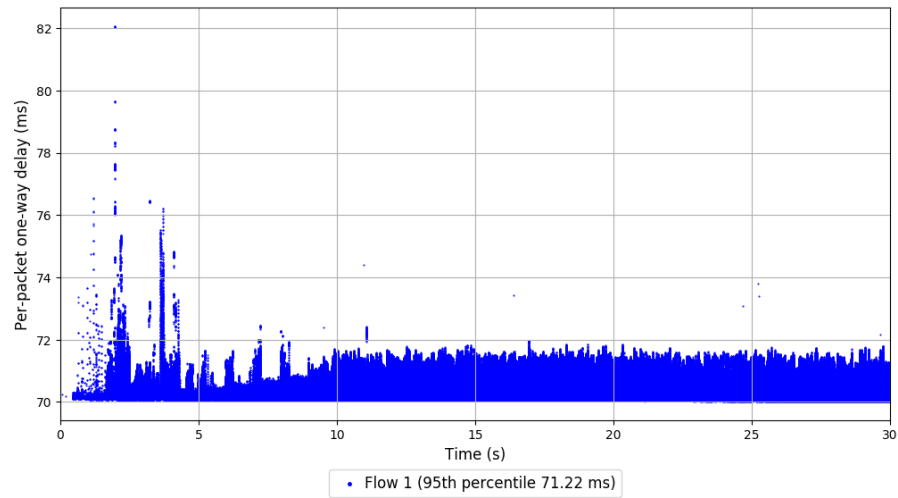
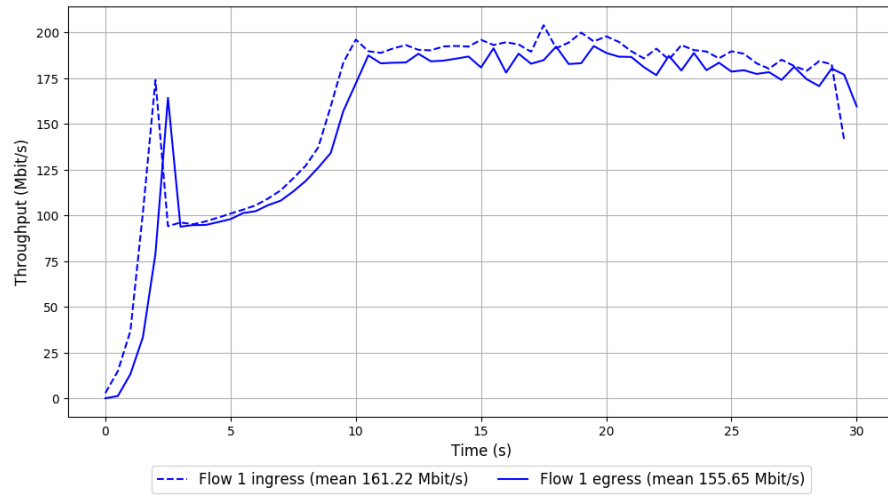


```
Run 2: Statistics of PCC-Expr

Start at: 2021-03-07 23:51:23
End at: 2021-03-07 23:51:53

# Below is generated by plot.py at 2021-03-08 00:08:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 155.65 Mbit/s
95th percentile per-packet one-way delay: 71.216 ms
Loss rate: 3.51%
-- Flow 1:
Average throughput: 155.65 Mbit/s
95th percentile per-packet one-way delay: 71.216 ms
Loss rate: 3.51%
```

Run 2: Report of PCC-Expr — Data Link

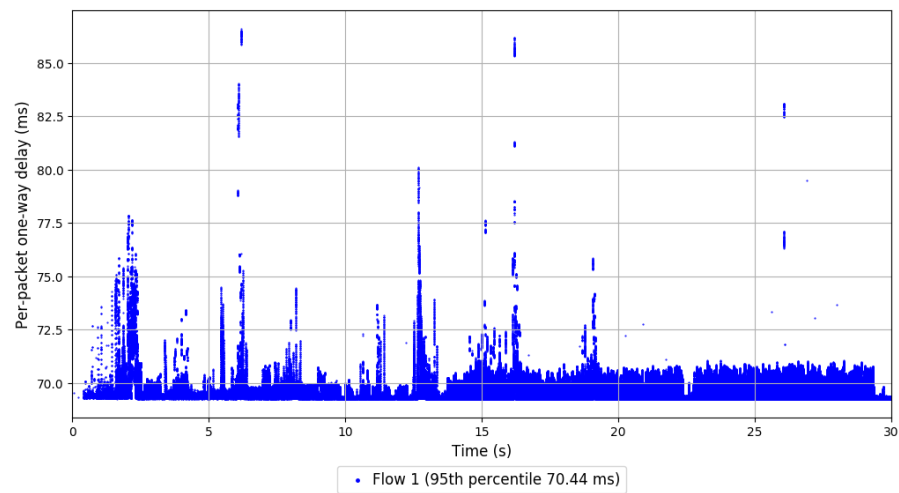
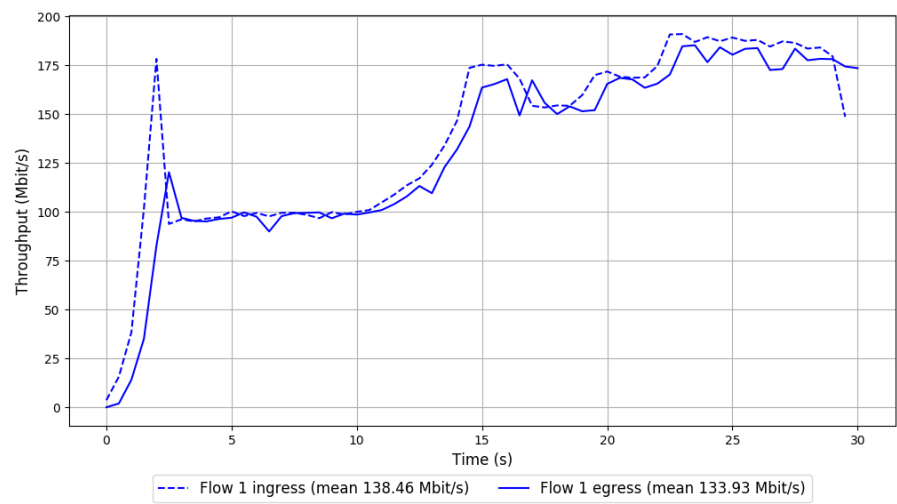


```
Run 3: Statistics of PCC-Expr

Start at: 2021-03-08 00:01:13
End at: 2021-03-08 00:01:43

# Below is generated by plot.py at 2021-03-08 00:09:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 133.93 Mbit/s
95th percentile per-packet one-way delay: 70.440 ms
Loss rate: 3.27%
-- Flow 1:
Average throughput: 133.93 Mbit/s
95th percentile per-packet one-way delay: 70.440 ms
Loss rate: 3.27%
```

Run 3: Report of PCC-Expr — Data Link

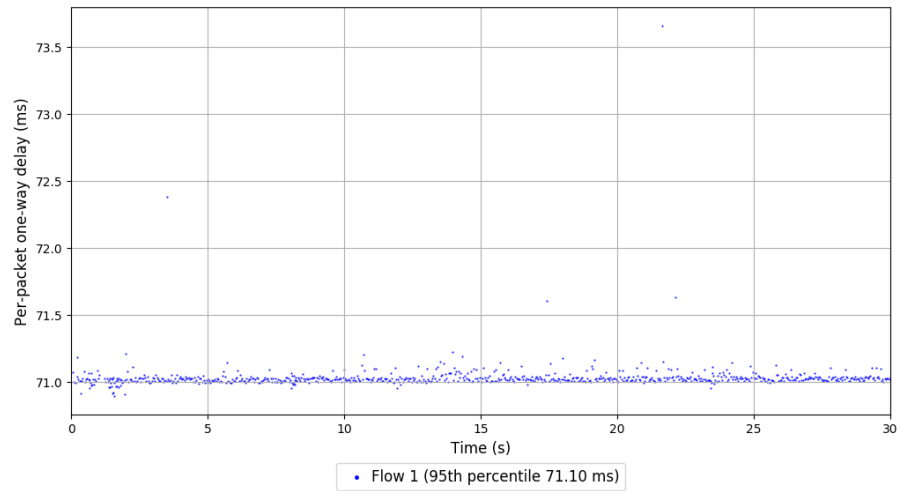
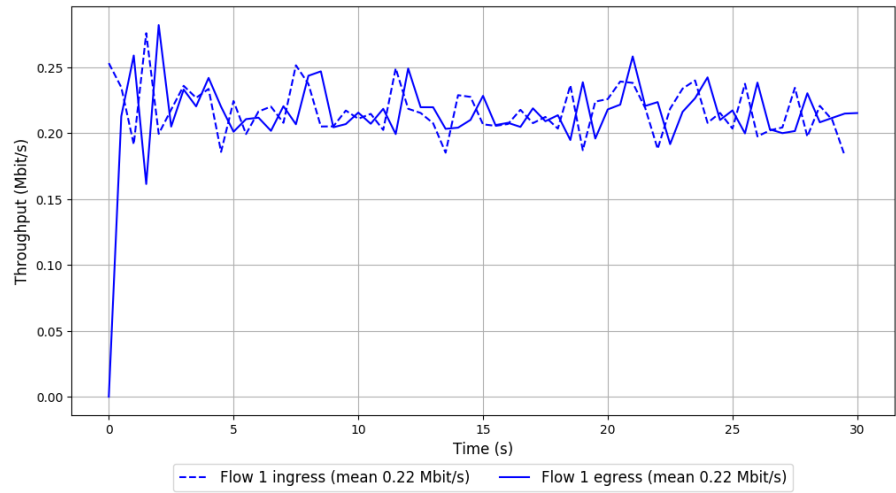


```
Run 1: Statistics of SCReAM

Start at: 2021-03-07 23:40:15
End at: 2021-03-07 23:40:45

# Below is generated by plot.py at 2021-03-08 00:09:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 71.100 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 71.100 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2021-03-07 23:49:47

End at: 2021-03-07 23:50:17

Below is generated by plot.py at 2021-03-08 00:09:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 70.532 ms

Loss rate: 0.00%

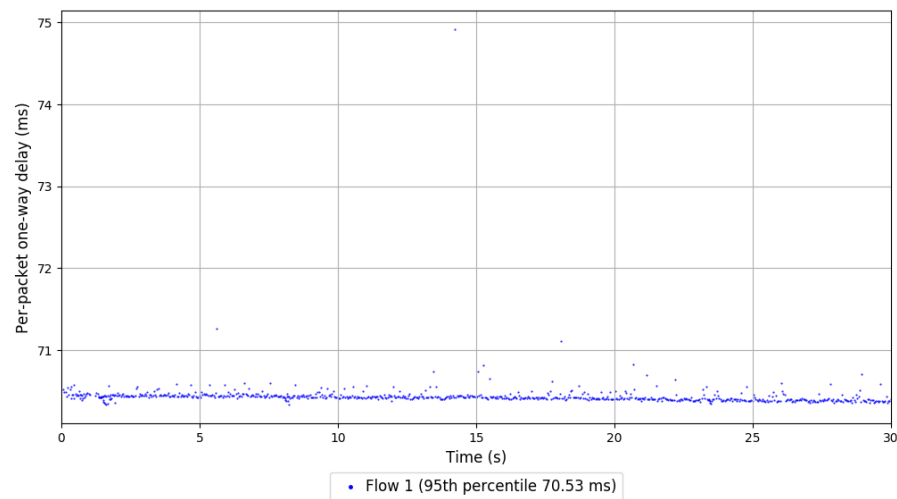
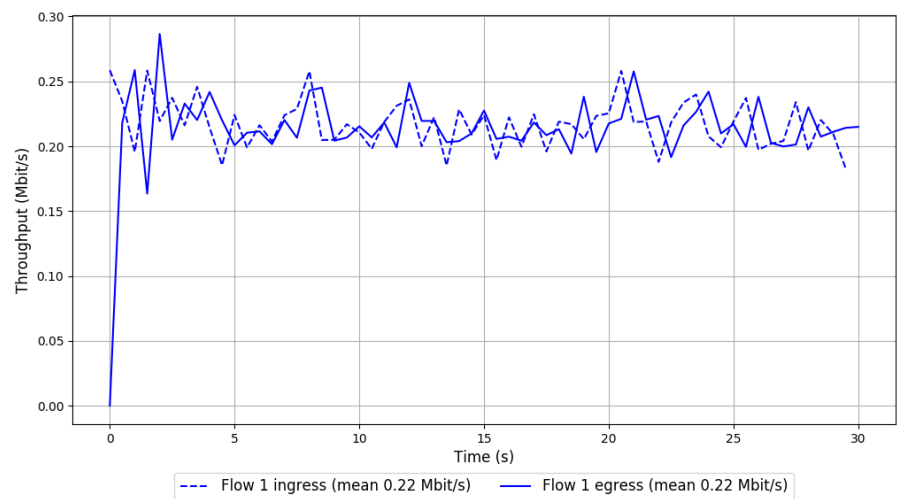
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 70.532 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2021-03-07 23:59:34

End at: 2021-03-08 00:00:04

Below is generated by plot.py at 2021-03-08 00:09:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 69.548 ms

Loss rate: 0.00%

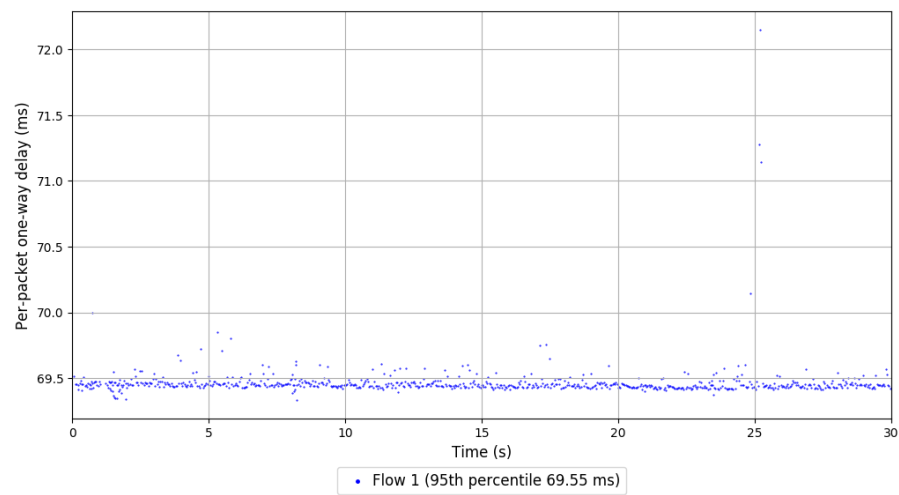
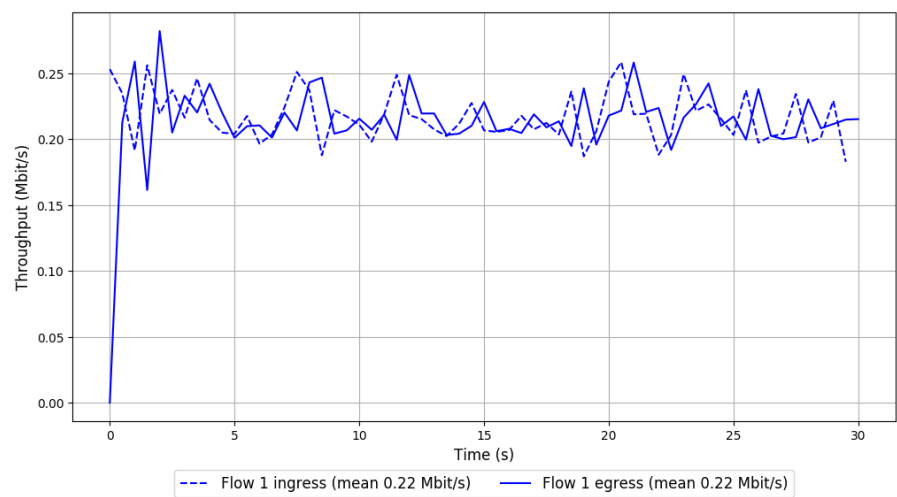
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 69.548 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2021-03-07 23:35:41

End at: 2021-03-07 23:36:11

Below is generated by plot.py at 2021-03-08 00:09:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.80 Mbit/s

95th percentile per-packet one-way delay: 71.716 ms

Loss rate: 5.55%

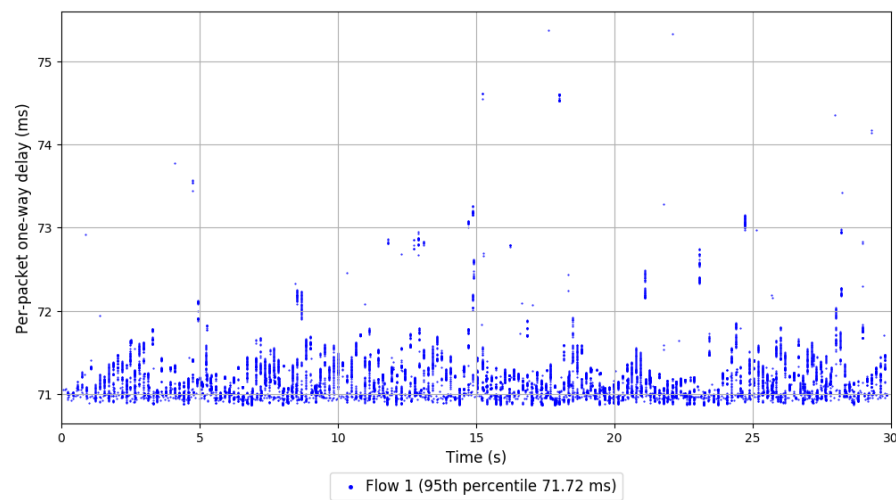
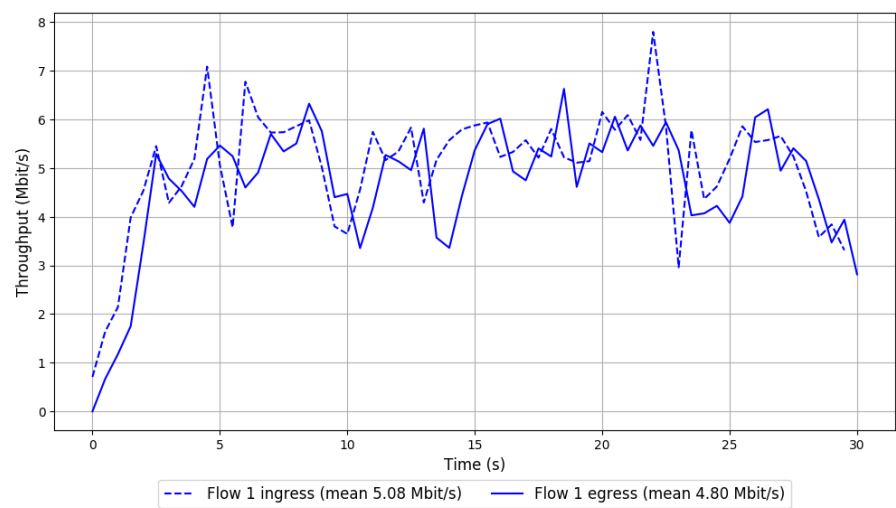
-- Flow 1:

Average throughput: 4.80 Mbit/s

95th percentile per-packet one-way delay: 71.716 ms

Loss rate: 5.55%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2021-03-07 23:45:11

End at: 2021-03-07 23:45:41

Below is generated by plot.py at 2021-03-08 00:09:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.14 Mbit/s

95th percentile per-packet one-way delay: 72.289 ms

Loss rate: 3.74%

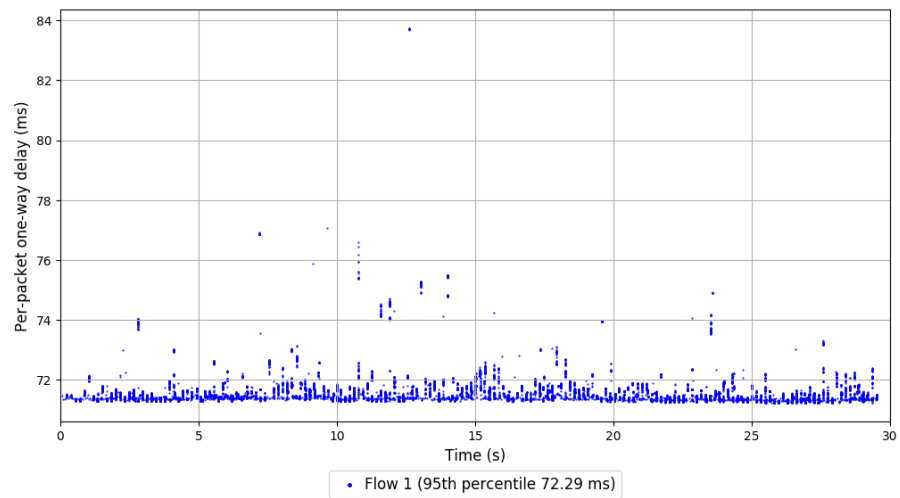
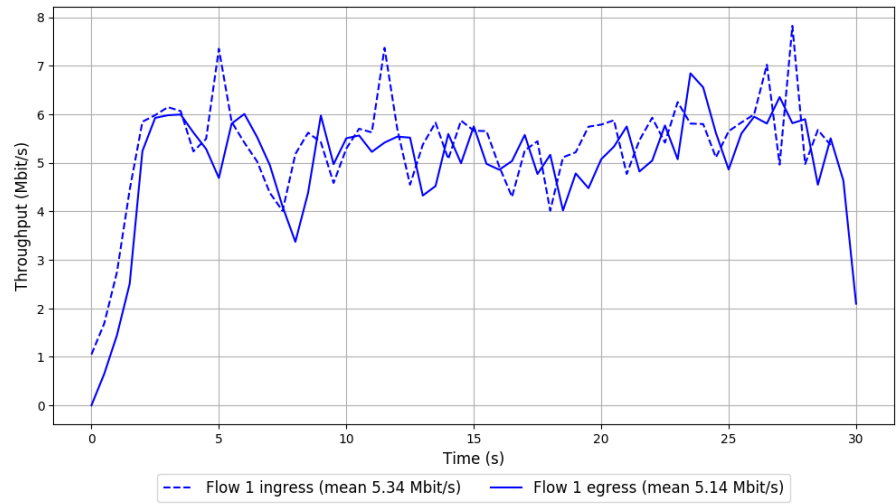
-- Flow 1:

Average throughput: 5.14 Mbit/s

95th percentile per-packet one-way delay: 72.289 ms

Loss rate: 3.74%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2021-03-07 23:54:57

End at: 2021-03-07 23:55:27

Below is generated by plot.py at 2021-03-08 00:09:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.62 Mbit/s

95th percentile per-packet one-way delay: 70.283 ms

Loss rate: 5.47%

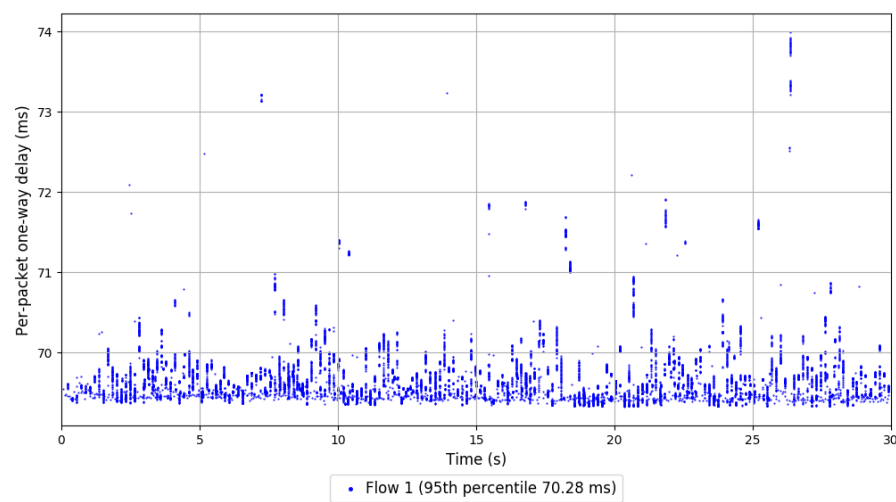
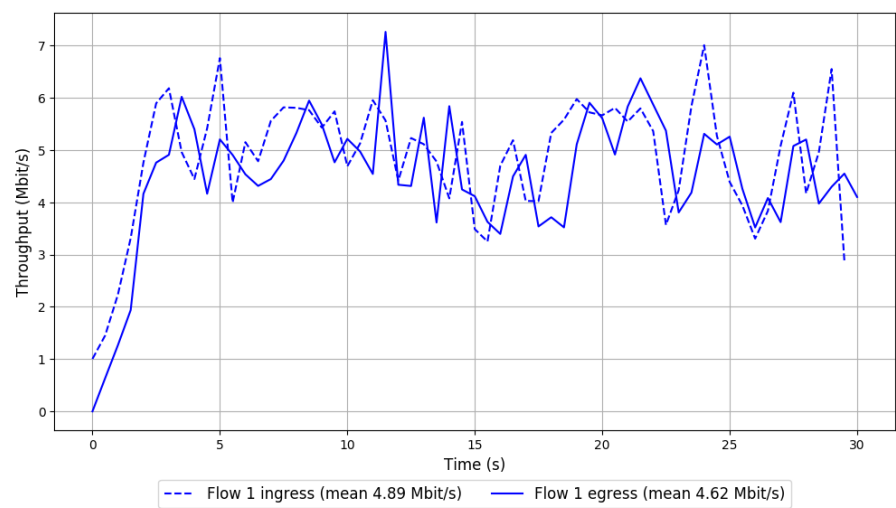
-- Flow 1:

Average throughput: 4.62 Mbit/s

95th percentile per-packet one-way delay: 70.283 ms

Loss rate: 5.47%

Run 3: Report of Sprout — Data Link

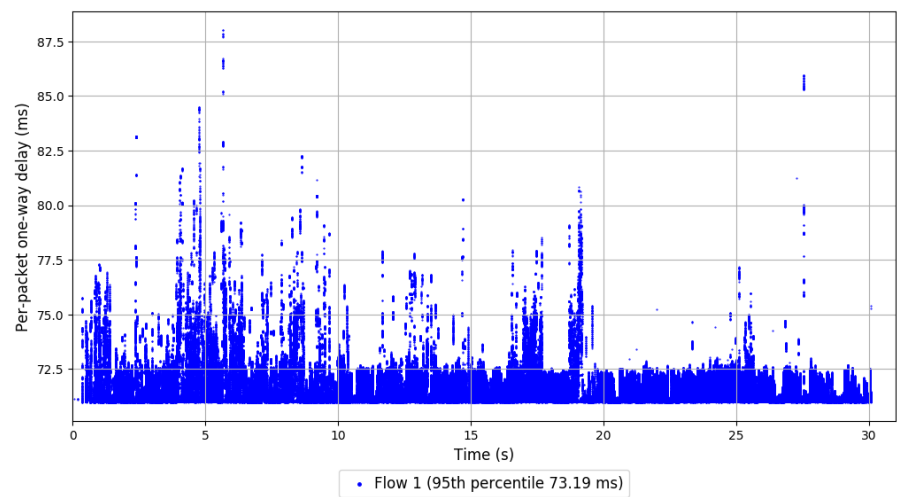
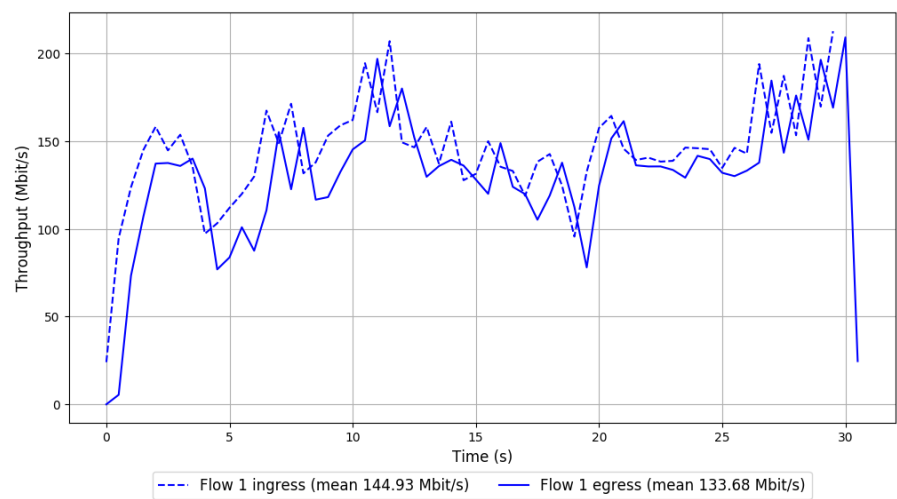


```
Run 1: Statistics of TaoVA-100x

Start at: 2021-03-07 23:40:57
End at: 2021-03-07 23:41:27

# Below is generated by plot.py at 2021-03-08 00:09:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 133.68 Mbit/s
95th percentile per-packet one-way delay: 73.186 ms
Loss rate: 7.76%
-- Flow 1:
Average throughput: 133.68 Mbit/s
95th percentile per-packet one-way delay: 73.186 ms
Loss rate: 7.76%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2021-03-07 23:50:29

End at: 2021-03-07 23:50:59

Below is generated by plot.py at 2021-03-08 00:09:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.47 Mbit/s

95th percentile per-packet one-way delay: 71.471 ms

Loss rate: 7.19%

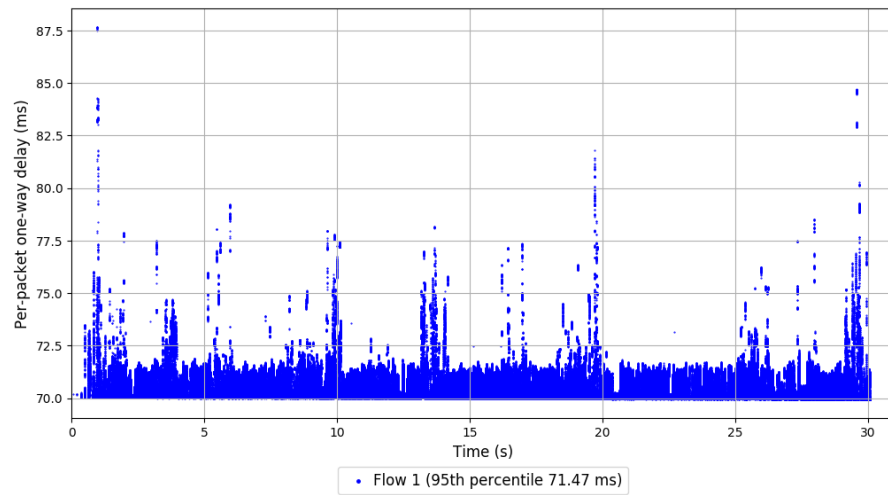
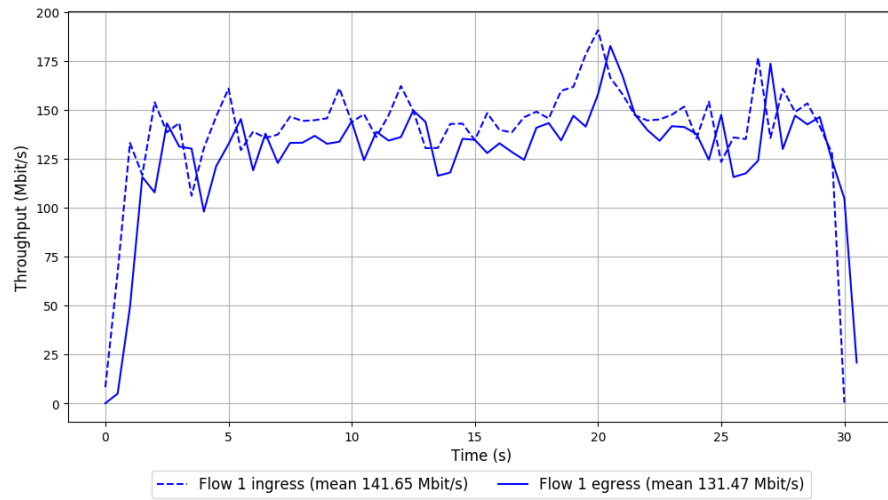
-- Flow 1:

Average throughput: 131.47 Mbit/s

95th percentile per-packet one-way delay: 71.471 ms

Loss rate: 7.19%

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



Run 3: Statistics of TaoVA-100x

Start at: 2021-03-08 00:00:17

End at: 2021-03-08 00:00:47

Below is generated by plot.py at 2021-03-08 00:10:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 133.42 Mbit/s

95th percentile per-packet one-way delay: 70.388 ms

Loss rate: 6.13%

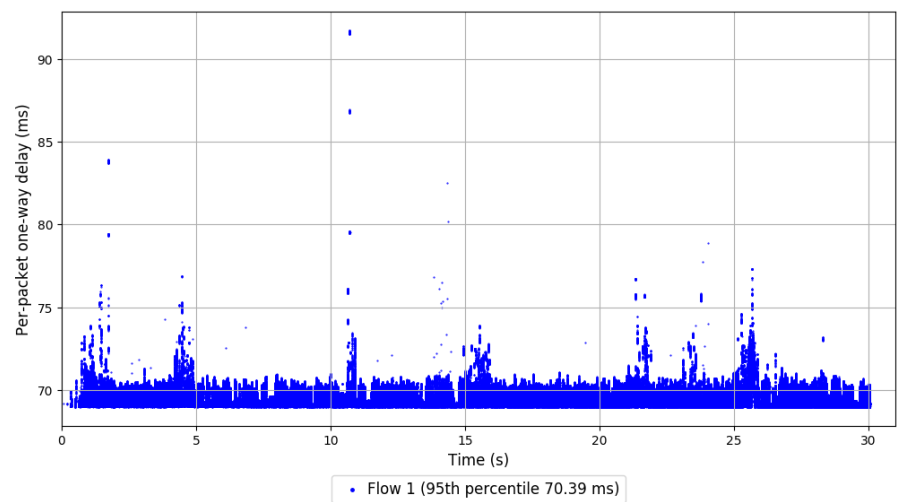
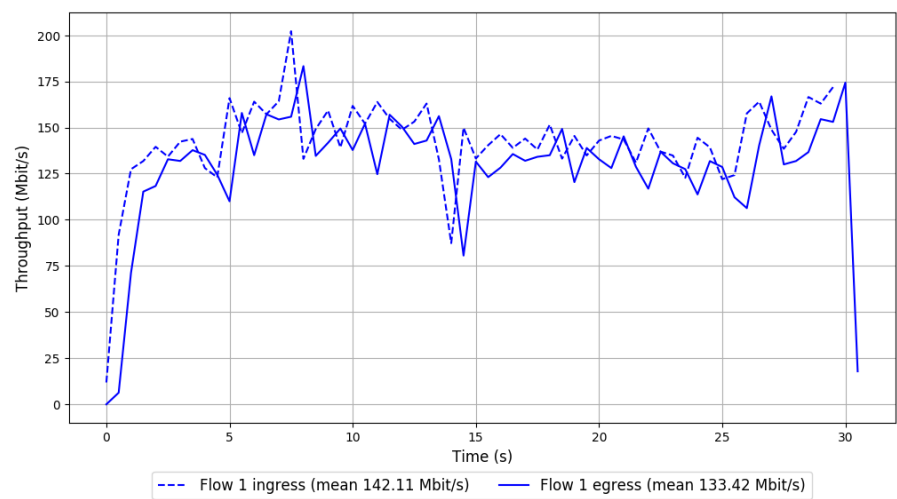
-- Flow 1:

Average throughput: 133.42 Mbit/s

95th percentile per-packet one-way delay: 70.388 ms

Loss rate: 6.13%

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



Run 1: Statistics of TCP Vegas

Start at: 2021-03-07 23:38:02

End at: 2021-03-07 23:38:32

Below is generated by plot.py at 2021-03-08 00:10:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.23 Mbit/s

95th percentile per-packet one-way delay: 71.771 ms

Loss rate: 0.69%

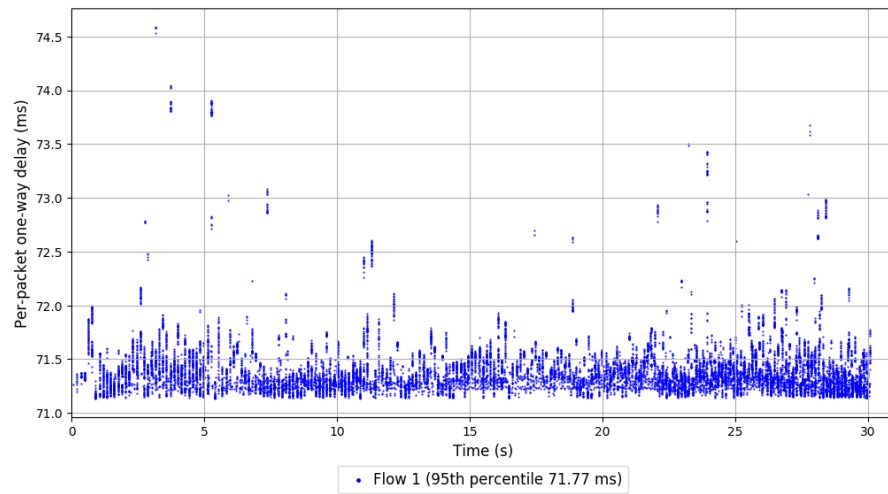
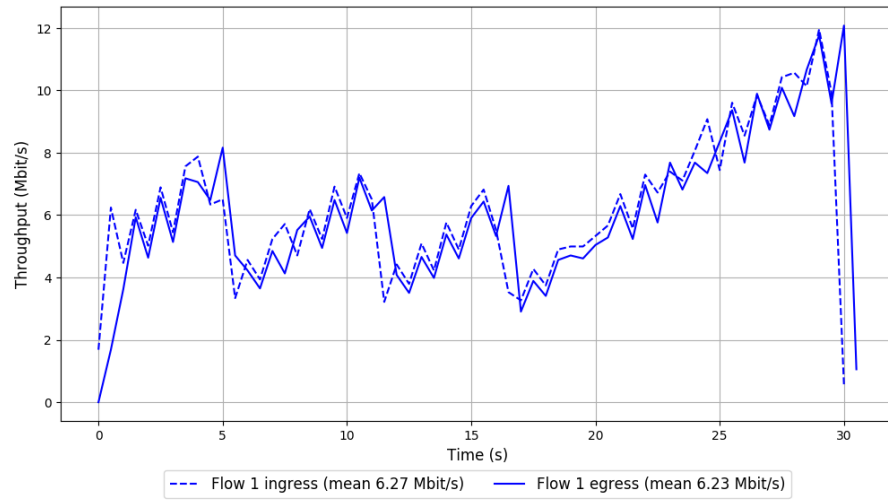
-- Flow 1:

Average throughput: 6.23 Mbit/s

95th percentile per-packet one-way delay: 71.771 ms

Loss rate: 0.69%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2021-03-07 23:47:31

End at: 2021-03-07 23:48:01

Below is generated by plot.py at 2021-03-08 00:10:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.46 Mbit/s

95th percentile per-packet one-way delay: 71.459 ms

Loss rate: 0.93%

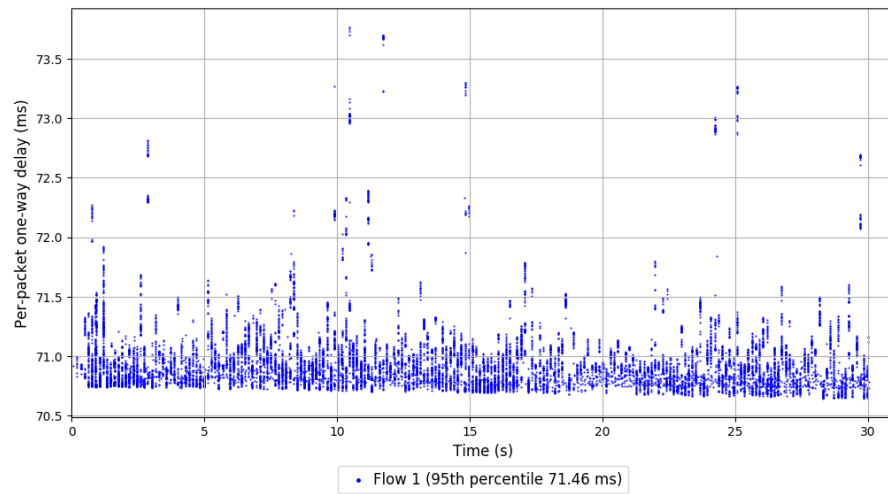
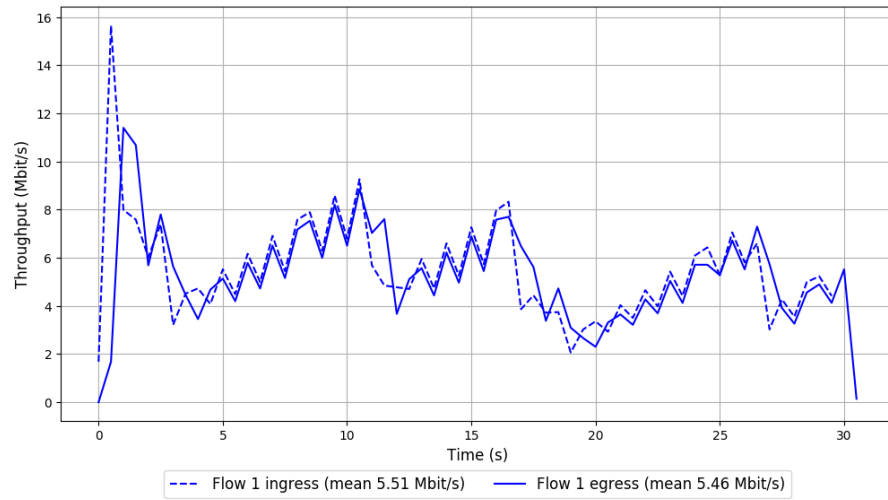
-- Flow 1:

Average throughput: 5.46 Mbit/s

95th percentile per-packet one-way delay: 71.459 ms

Loss rate: 0.93%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2021-03-07 23:57:18

End at: 2021-03-07 23:57:48

Below is generated by plot.py at 2021-03-08 00:10:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.37 Mbit/s

95th percentile per-packet one-way delay: 69.833 ms

Loss rate: 0.57%

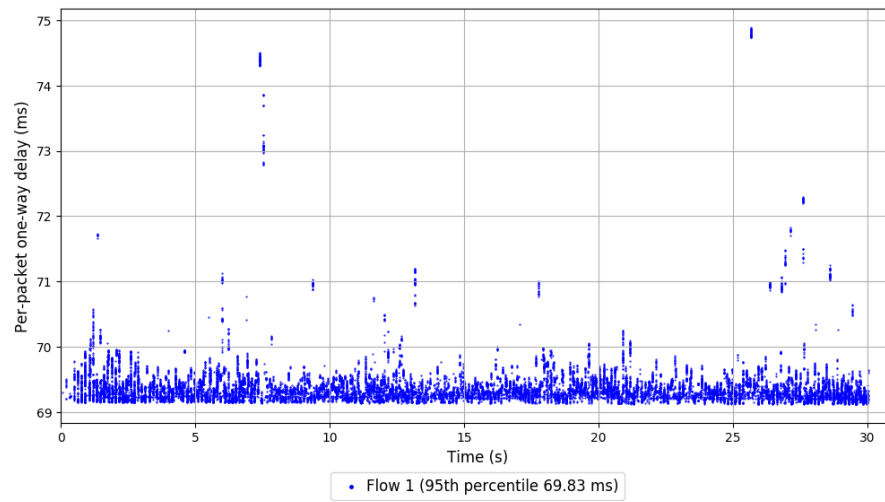
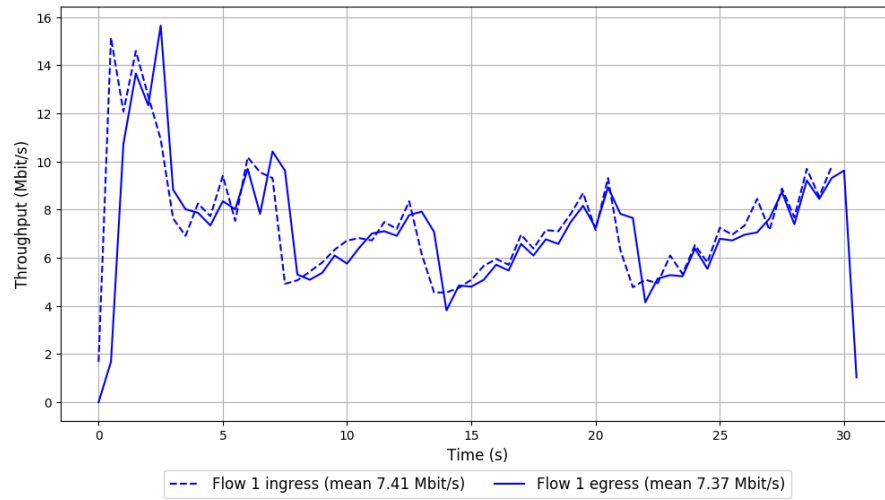
-- Flow 1:

Average throughput: 7.37 Mbit/s

95th percentile per-packet one-way delay: 69.833 ms

Loss rate: 0.57%

Run 3: Report of TCP Vegas — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2021-03-07 23:36:23

End at: 2021-03-07 23:36:53

Below is generated by plot.py at 2021-03-08 00:10:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.41 Mbit/s

95th percentile per-packet one-way delay: 71.609 ms

Loss rate: 1.34%

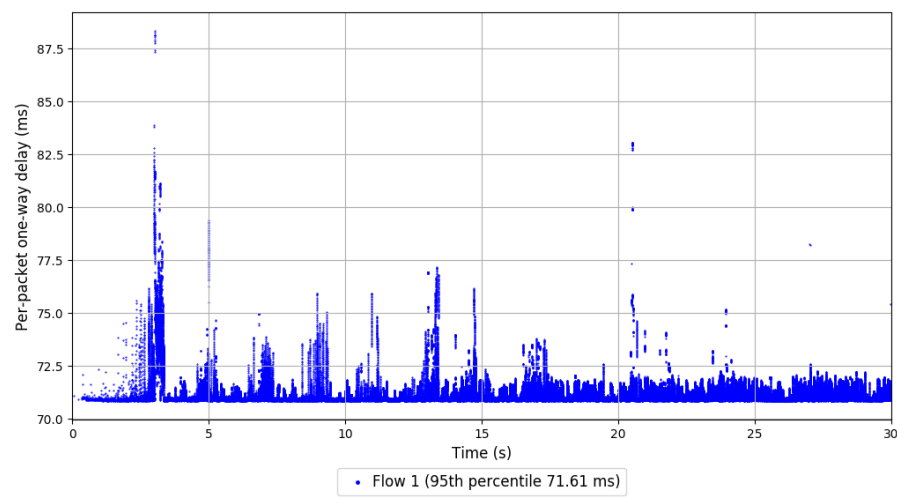
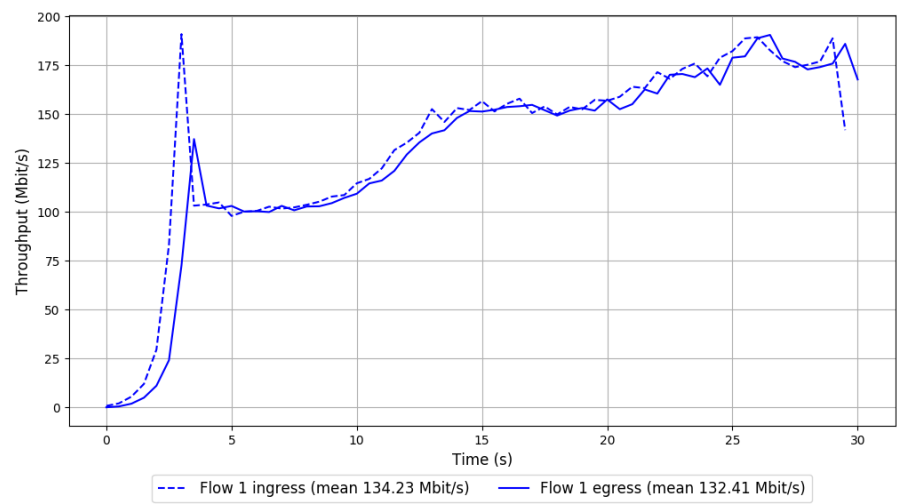
-- Flow 1:

Average throughput: 132.41 Mbit/s

95th percentile per-packet one-way delay: 71.609 ms

Loss rate: 1.34%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2021-03-07 23:45:54

End at: 2021-03-07 23:46:24

Below is generated by plot.py at 2021-03-08 00:11:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.91 Mbit/s

95th percentile per-packet one-way delay: 71.676 ms

Loss rate: 1.16%

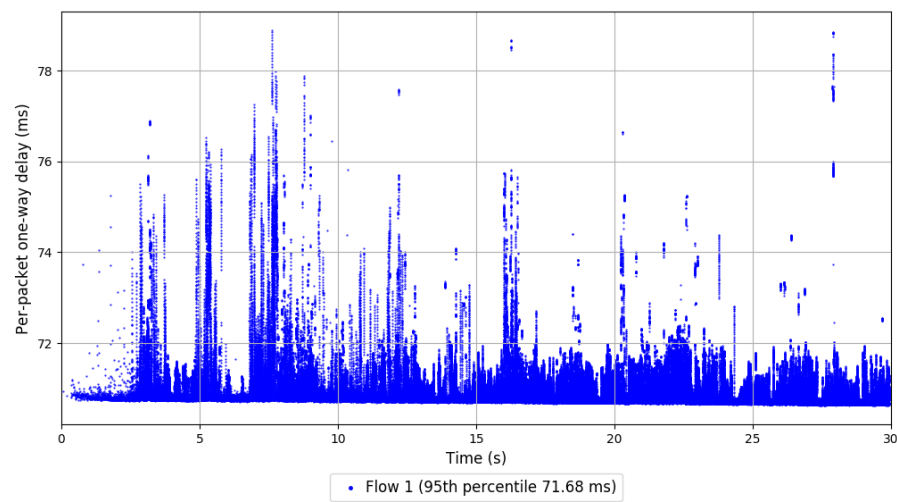
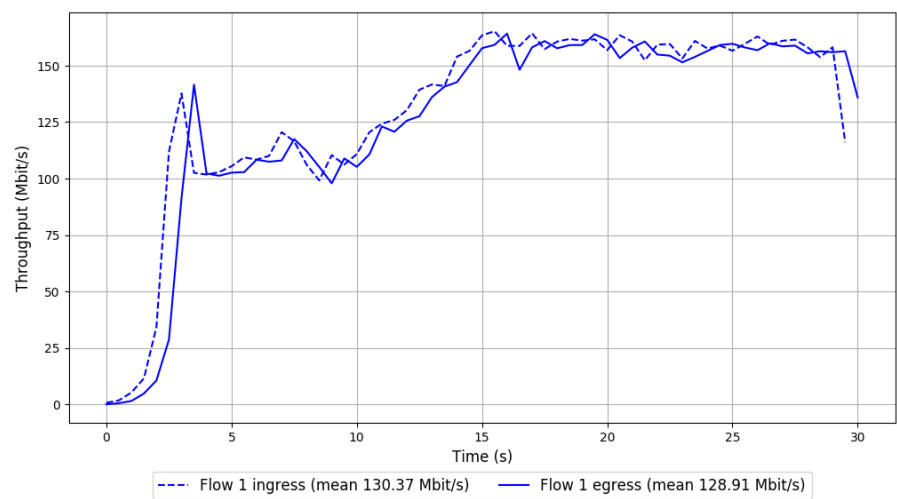
-- Flow 1:

Average throughput: 128.91 Mbit/s

95th percentile per-packet one-way delay: 71.676 ms

Loss rate: 1.16%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2021-03-07 23:55:39

End at: 2021-03-07 23:56:09

Below is generated by plot.py at 2021-03-08 00:11:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 123.76 Mbit/s

95th percentile per-packet one-way delay: 71.027 ms

Loss rate: 3.56%

-- Flow 1:

Average throughput: 123.76 Mbit/s

95th percentile per-packet one-way delay: 71.027 ms

Loss rate: 3.56%

Run 3: Report of PCC-Vivace — Data Link

