

Pantheon Report

Generated at 2018-05-22 13:39:40 (UTC).

Data path: Mexico Ethernet (*remote*) → AWS California 2 Ethernet (*local*).

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

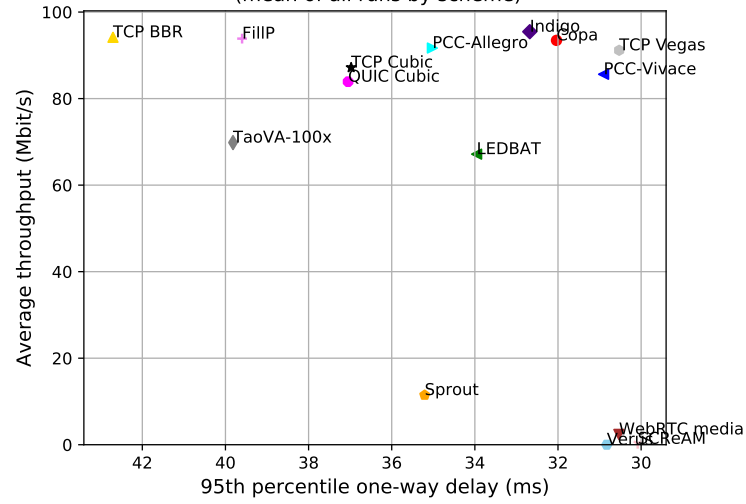
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

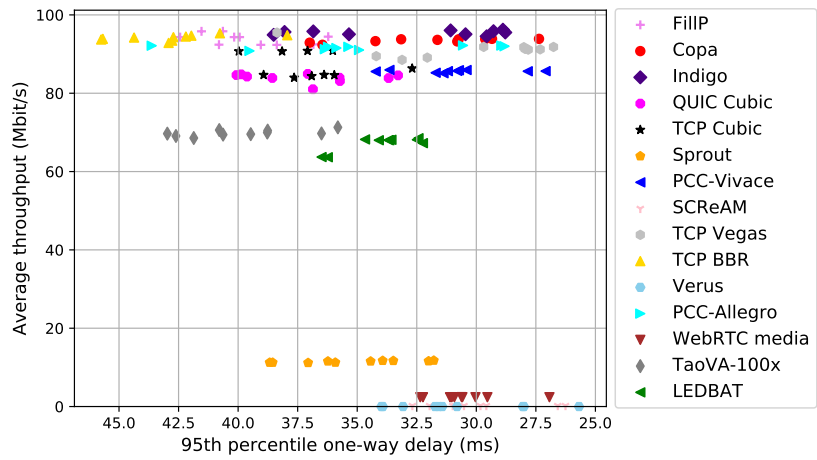
Git summary:

```
branch: master @ 2d1d4407e851ba626e5ca4626a306105793df686
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
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
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from Mexico Ethernet to AWS California 2 Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from Mexico Ethernet to AWS California 2 Ethernet, 10 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	10	94.17	42.71	1.22
Copa	10	93.46	32.04	0.20
TCP Cubic	10	87.17	36.98	0.23
FillP	10	93.86	39.60	0.23
Indigo	10	95.46	32.68	0.21
LEDBAT	10	67.16	33.96	0.27
PCC-Allegro	10	91.69	35.02	0.21
PCC-Expr	0	N/A	N/A	N/A
QUIC Cubic	10	83.91	37.05	0.23
SCReAM	10	0.22	30.08	0.23
Sprout	10	11.48	35.21	0.21
TaoVA-100x	10	69.83	39.82	0.22
TCP Vegas	10	91.16	30.53	0.21
Verus	10	0.00	30.83	0.00
PCC-Vivace	10	85.62	30.90	0.22
WebRTC media	10	2.38	30.54	0.24

Run 1: Statistics of TCP BBR

Start at: 2018-05-22 10:06:21

End at: 2018-05-22 10:06:51

Local clock offset: 1.166 ms

Remote clock offset: 3.39 ms

Below is generated by plot.py at 2018-05-22 13:23:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.32 Mbit/s

95th percentile per-packet one-way delay: 42.716 ms

Loss rate: 1.08%

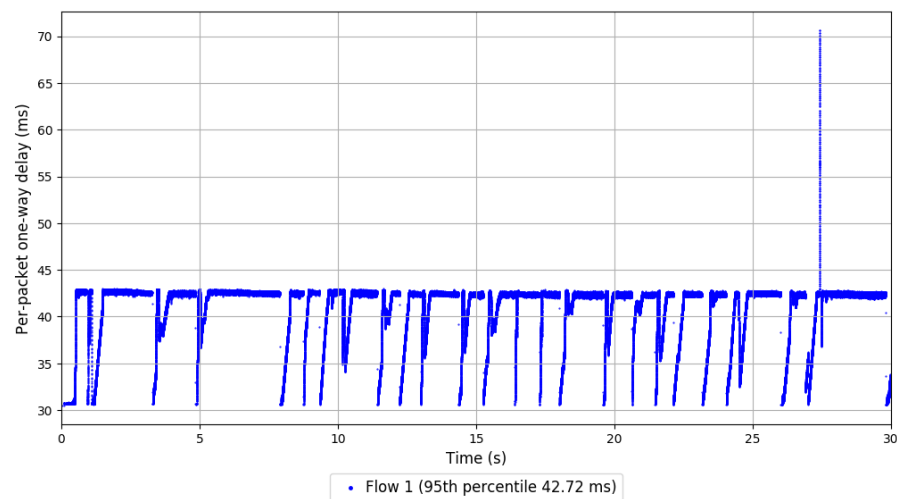
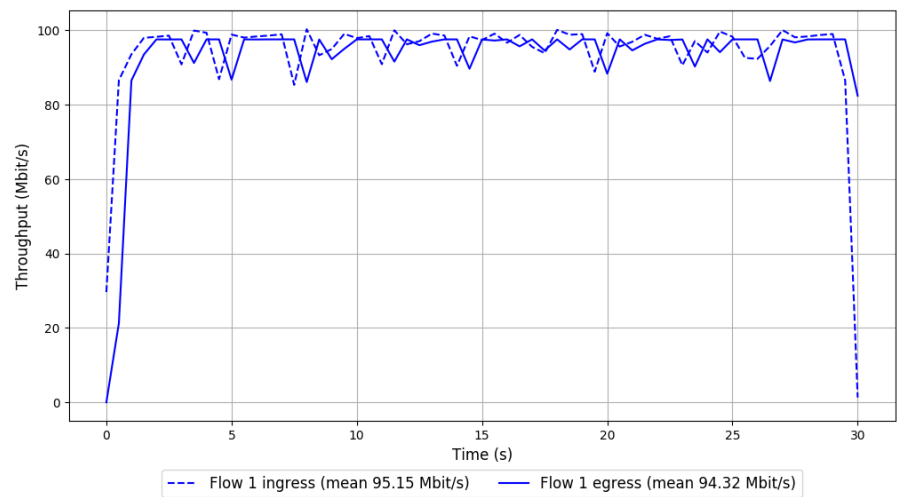
-- Flow 1:

Average throughput: 94.32 Mbit/s

95th percentile per-packet one-way delay: 42.716 ms

Loss rate: 1.08%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-05-22 10:27:05

End at: 2018-05-22 10:27:35

Local clock offset: 1.498 ms

Remote clock offset: 2.956 ms

Below is generated by plot.py at 2018-05-22 13:23:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.81 Mbit/s

95th percentile per-packet one-way delay: 37.937 ms

Loss rate: 1.41%

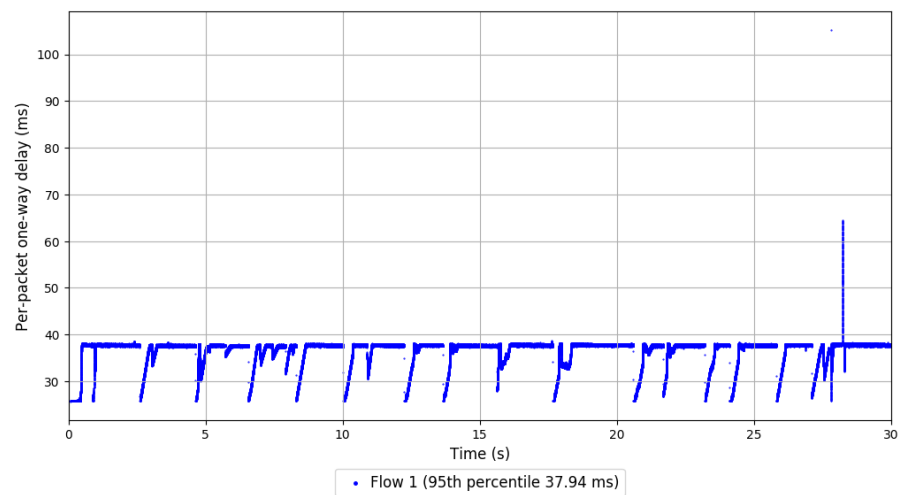
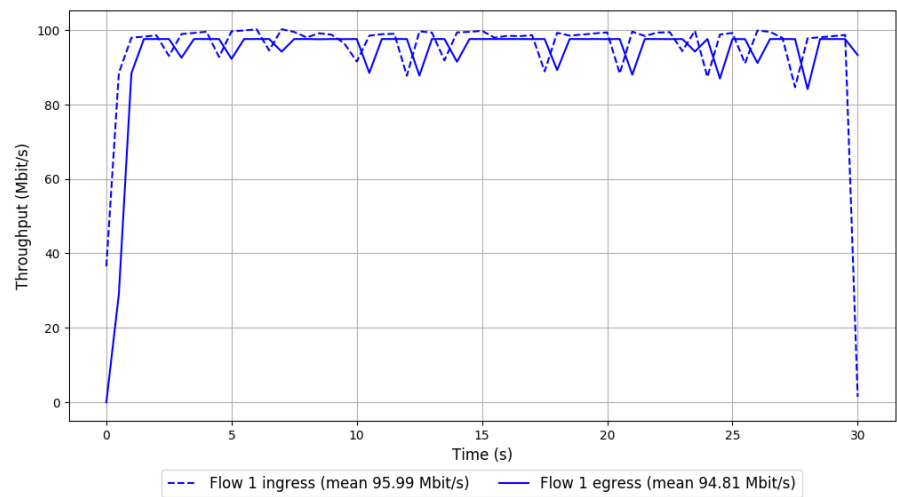
-- Flow 1:

Average throughput: 94.81 Mbit/s

95th percentile per-packet one-way delay: 37.937 ms

Loss rate: 1.41%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-05-22 10:47:50

End at: 2018-05-22 10:48:20

Local clock offset: 0.668 ms

Remote clock offset: 3.605 ms

Below is generated by plot.py at 2018-05-22 13:23:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.48 Mbit/s

95th percentile per-packet one-way delay: 42.194 ms

Loss rate: 1.22%

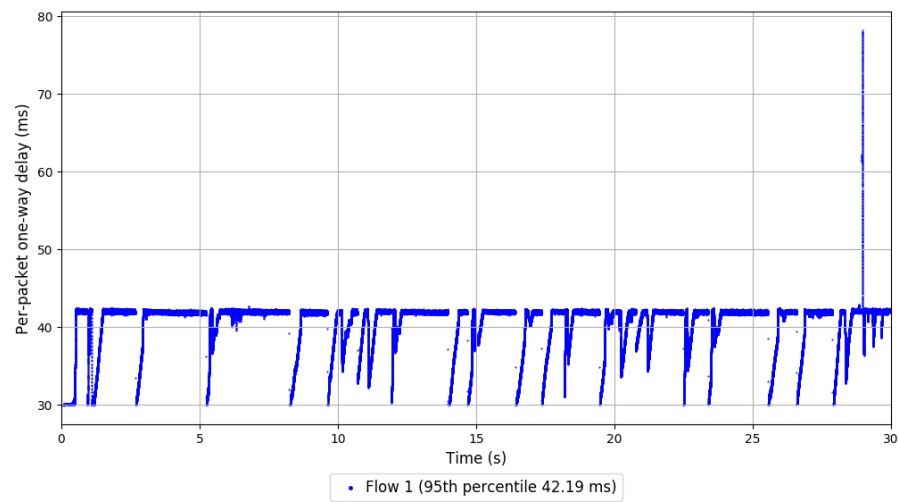
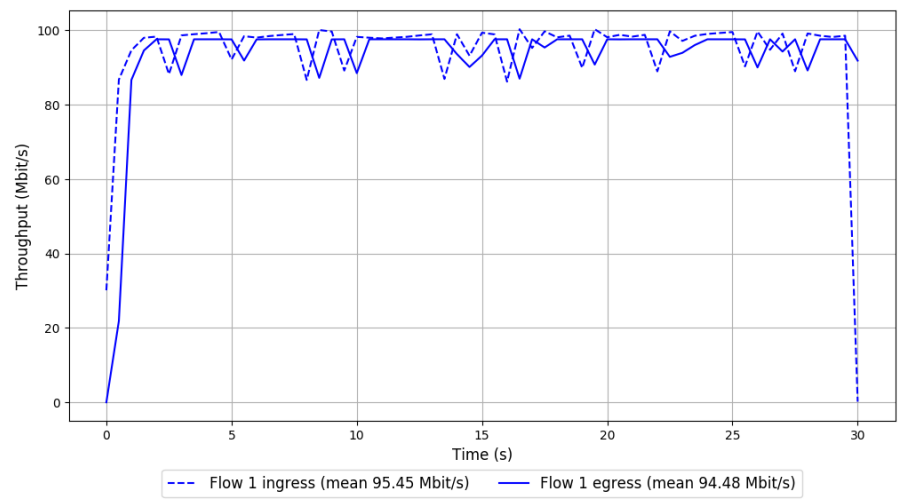
-- Flow 1:

Average throughput: 94.48 Mbit/s

95th percentile per-packet one-way delay: 42.194 ms

Loss rate: 1.22%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-05-22 11:08:37

End at: 2018-05-22 11:09:07

Local clock offset: 5.341 ms

Remote clock offset: 3.818 ms

Below is generated by plot.py at 2018-05-22 13:23:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.85 Mbit/s

95th percentile per-packet one-way delay: 42.918 ms

Loss rate: 1.19%

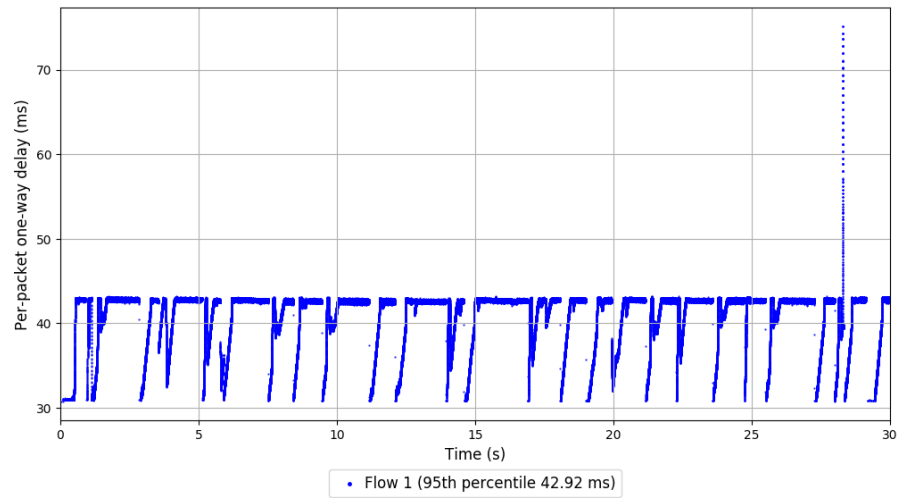
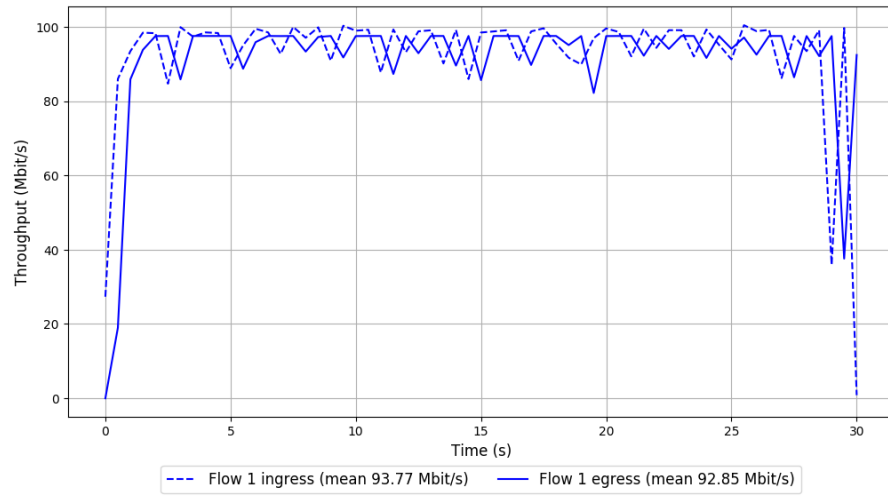
-- Flow 1:

Average throughput: 92.85 Mbit/s

95th percentile per-packet one-way delay: 42.918 ms

Loss rate: 1.19%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-05-22 11:29:22

End at: 2018-05-22 11:29:52

Local clock offset: 5.559 ms

Remote clock offset: 0.746 ms

Below is generated by plot.py at 2018-05-22 13:23:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.22 Mbit/s

95th percentile per-packet one-way delay: 44.368 ms

Loss rate: 1.24%

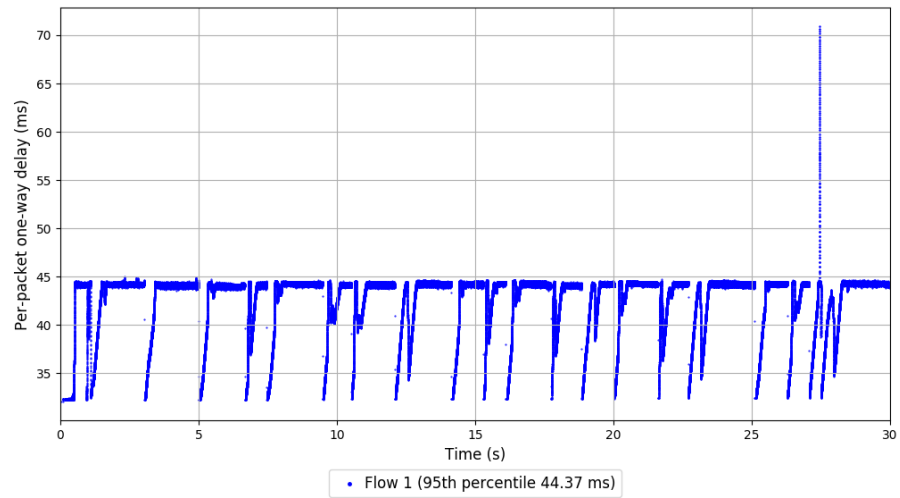
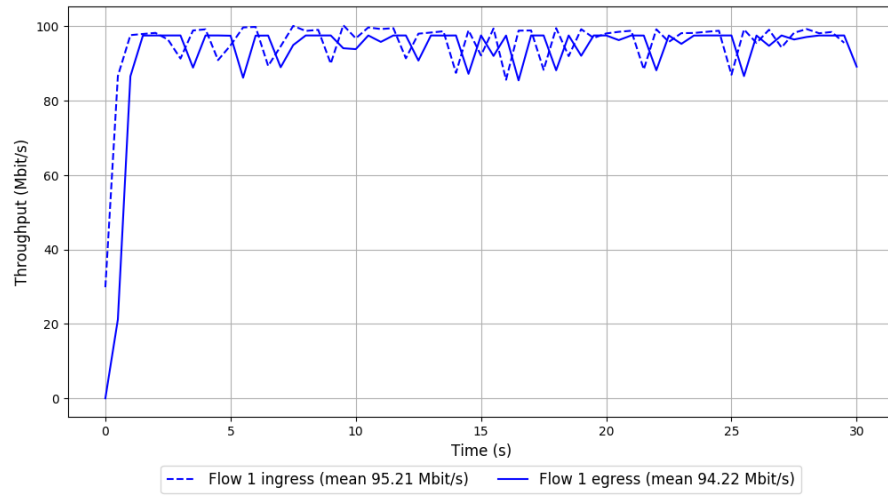
-- Flow 1:

Average throughput: 94.22 Mbit/s

95th percentile per-packet one-way delay: 44.368 ms

Loss rate: 1.24%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-05-22 11:50:12

End at: 2018-05-22 11:50:42

Local clock offset: 0.502 ms

Remote clock offset: 0.341 ms

Below is generated by plot.py at 2018-05-22 13:23:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.31 Mbit/s

95th percentile per-packet one-way delay: 40.764 ms

Loss rate: 1.29%

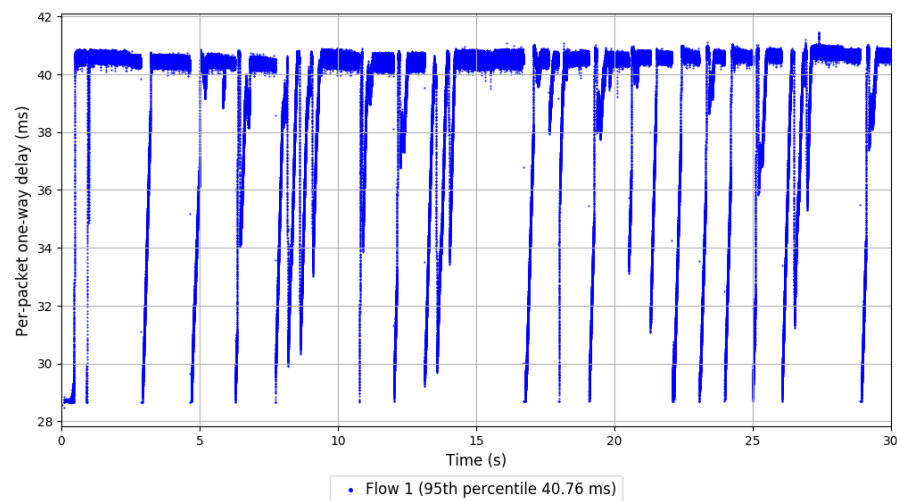
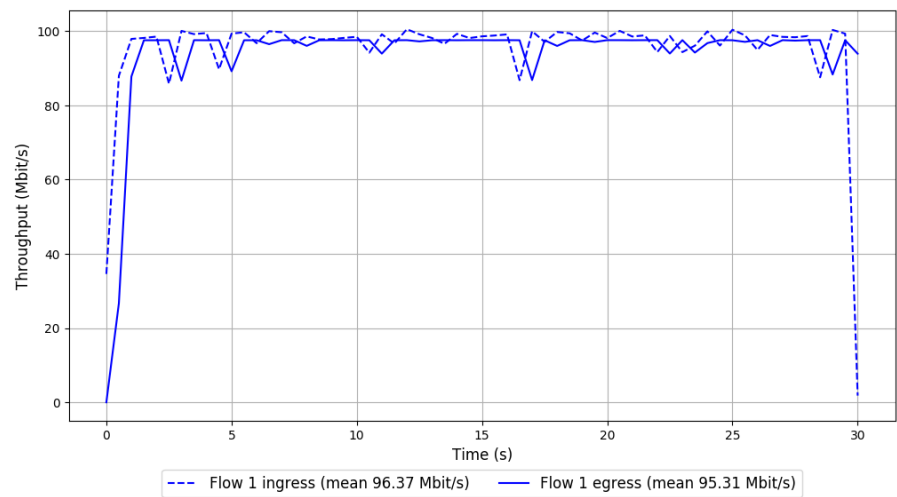
-- Flow 1:

Average throughput: 95.31 Mbit/s

95th percentile per-packet one-way delay: 40.764 ms

Loss rate: 1.29%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-05-22 12:11:17

End at: 2018-05-22 12:11:48

Local clock offset: 0.445 ms

Remote clock offset: 0.094 ms

Below is generated by plot.py at 2018-05-22 13:23:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.88 Mbit/s

95th percentile per-packet one-way delay: 45.680 ms

Loss rate: 1.13%

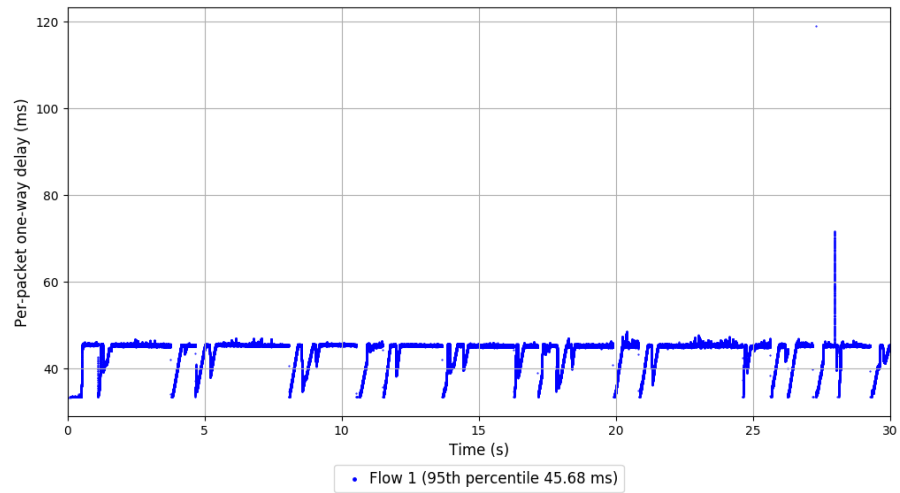
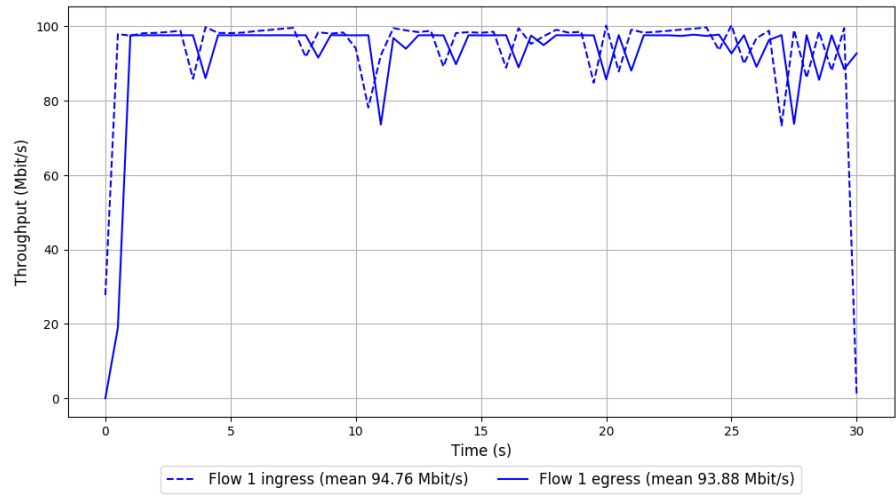
-- Flow 1:

Average throughput: 93.88 Mbit/s

95th percentile per-packet one-way delay: 45.680 ms

Loss rate: 1.13%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-05-22 12:33:20

End at: 2018-05-22 12:33:50

Local clock offset: 0.563 ms

Remote clock offset: 2.872 ms

Below is generated by plot.py at 2018-05-22 13:23:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.44 Mbit/s

95th percentile per-packet one-way delay: 42.768 ms

Loss rate: 1.24%

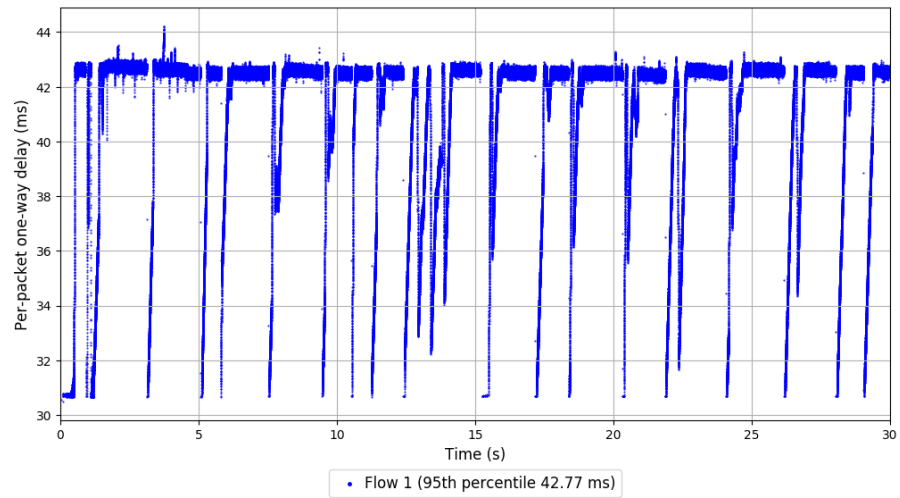
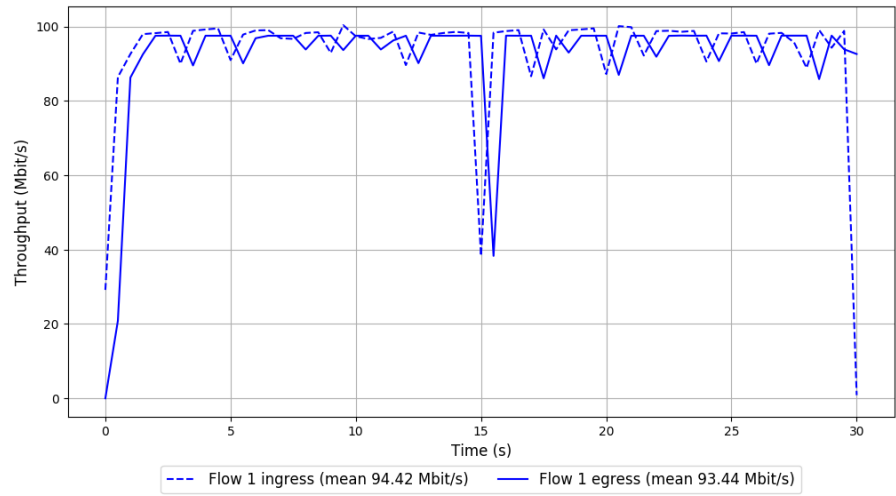
-- Flow 1:

Average throughput: 93.44 Mbit/s

95th percentile per-packet one-way delay: 42.768 ms

Loss rate: 1.24%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-05-22 12:54:27

End at: 2018-05-22 12:54:57

Local clock offset: 0.561 ms

Remote clock offset: 3.321 ms

Below is generated by plot.py at 2018-05-22 13:24:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.70 Mbit/s

95th percentile per-packet one-way delay: 41.963 ms

Loss rate: 1.23%

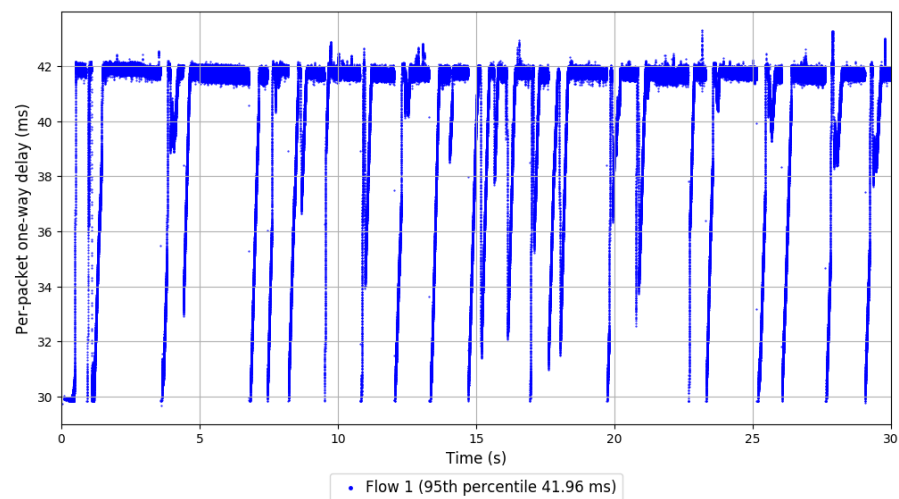
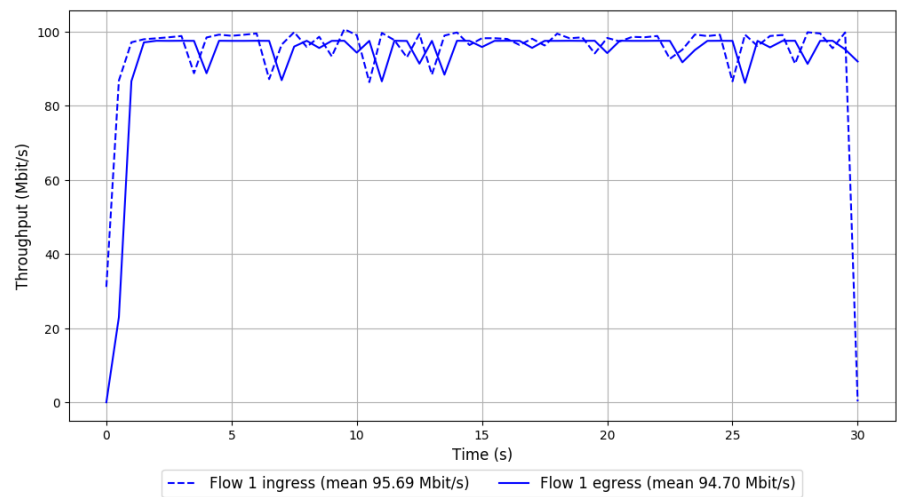
-- Flow 1:

Average throughput: 94.70 Mbit/s

95th percentile per-packet one-way delay: 41.963 ms

Loss rate: 1.23%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-05-22 13:15:29

End at: 2018-05-22 13:15:59

Local clock offset: 0.846 ms

Remote clock offset: 0.221 ms

Below is generated by plot.py at 2018-05-22 13:24:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.72 Mbit/s

95th percentile per-packet one-way delay: 45.749 ms

Loss rate: 1.12%

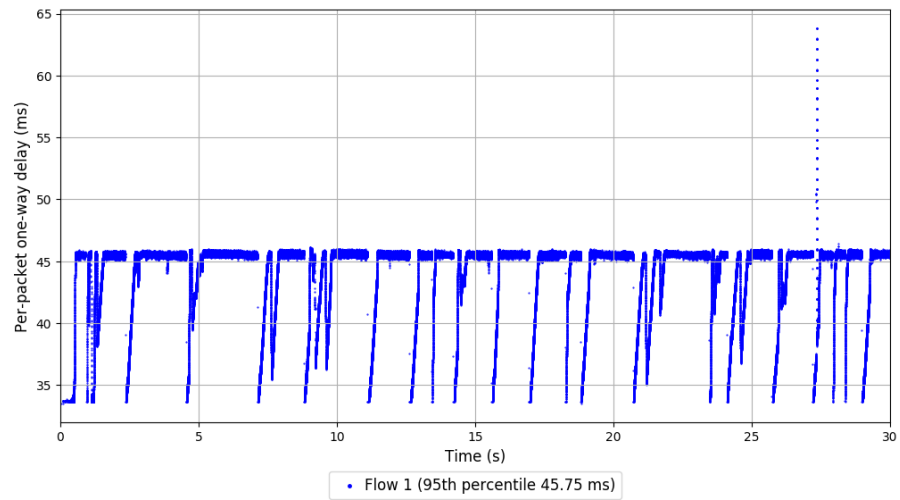
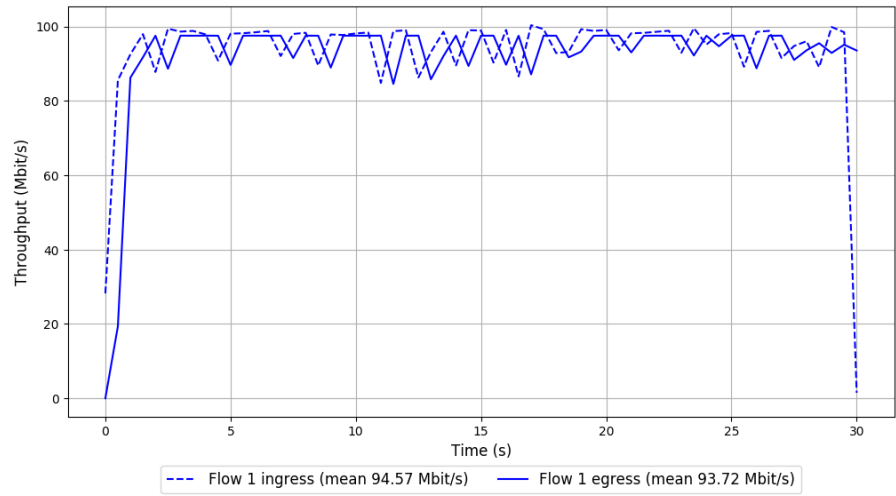
-- Flow 1:

Average throughput: 93.72 Mbit/s

95th percentile per-packet one-way delay: 45.749 ms

Loss rate: 1.12%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-05-22 09:57:14

End at: 2018-05-22 09:57:44

Local clock offset: 0.484 ms

Remote clock offset: 3.391 ms

Below is generated by plot.py at 2018-05-22 13:25:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.91 Mbit/s

95th percentile per-packet one-way delay: 36.994 ms

Loss rate: 0.21%

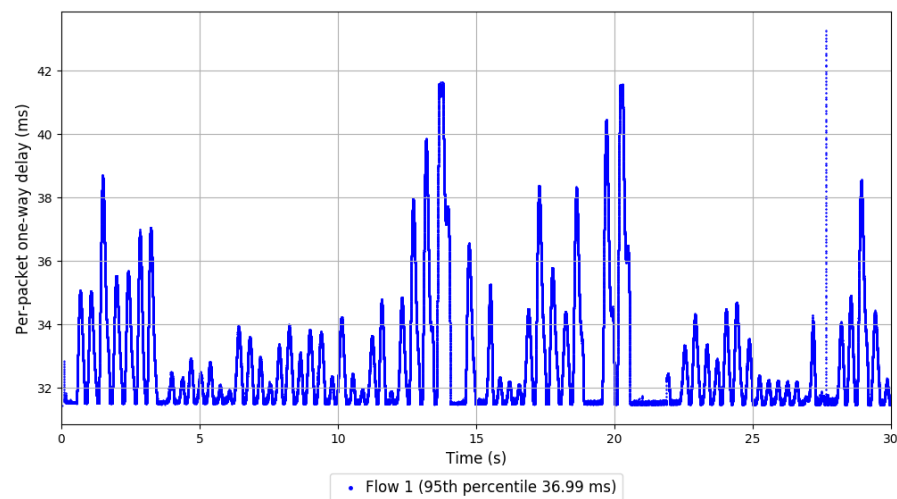
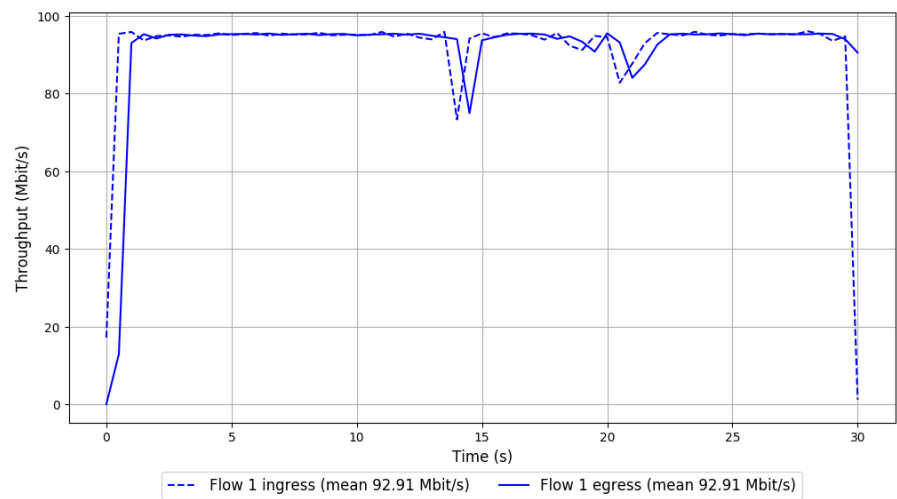
-- Flow 1:

Average throughput: 92.91 Mbit/s

95th percentile per-packet one-way delay: 36.994 ms

Loss rate: 0.21%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-05-22 10:17:58

End at: 2018-05-22 10:18:28

Local clock offset: 1.437 ms

Remote clock offset: 2.997 ms

Below is generated by plot.py at 2018-05-22 13:25:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.37 Mbit/s

95th percentile per-packet one-way delay: 36.461 ms

Loss rate: 0.21%

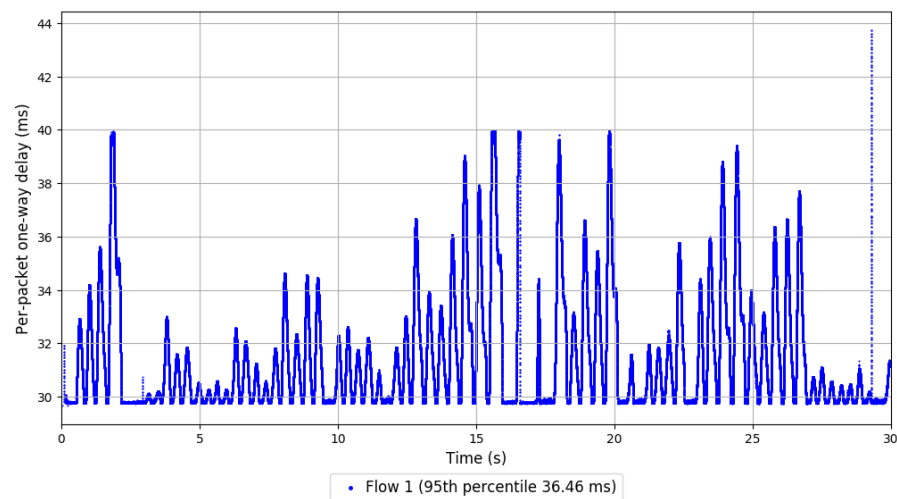
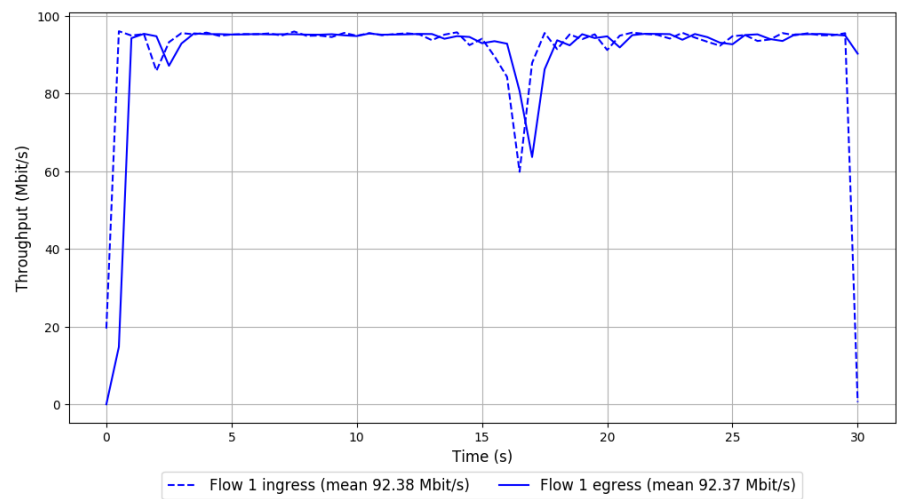
-- Flow 1:

Average throughput: 92.37 Mbit/s

95th percentile per-packet one-way delay: 36.461 ms

Loss rate: 0.21%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-05-22 10:38:43

End at: 2018-05-22 10:39:13

Local clock offset: 0.98 ms

Remote clock offset: 3.101 ms

Below is generated by plot.py at 2018-05-22 13:25:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.84 Mbit/s

95th percentile per-packet one-way delay: 29.627 ms

Loss rate: 0.20%

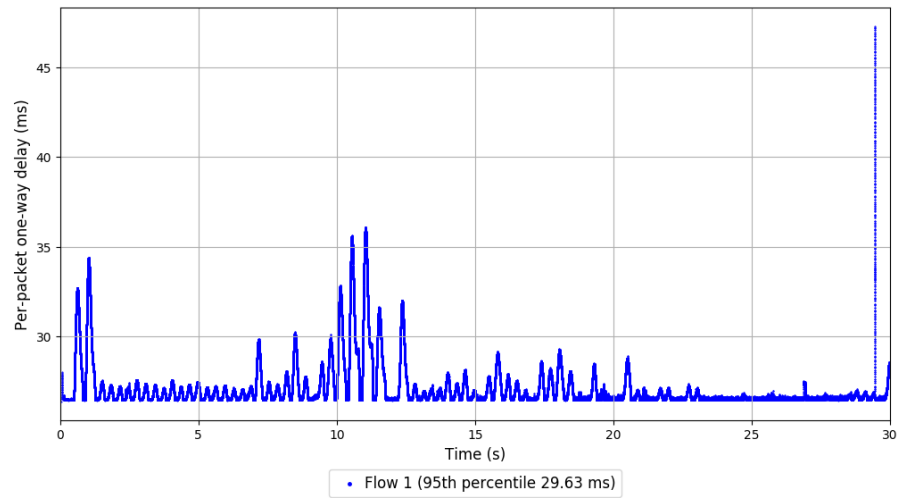
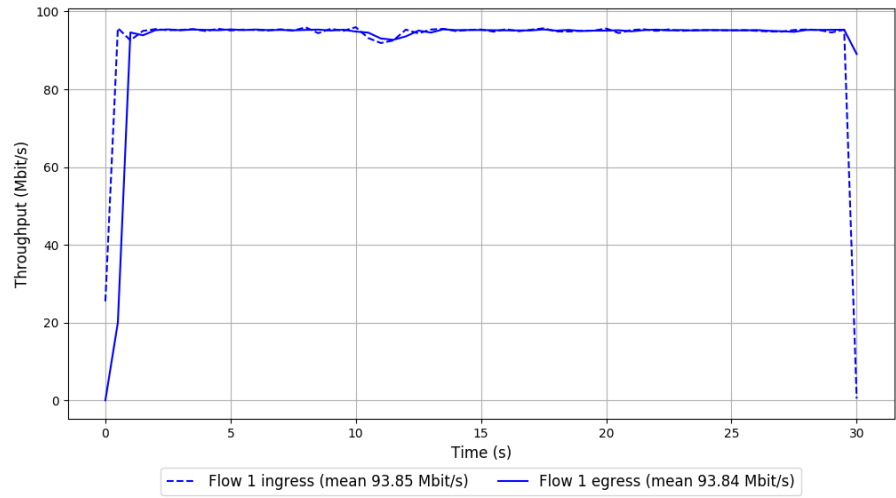
-- Flow 1:

Average throughput: 93.84 Mbit/s

95th percentile per-packet one-way delay: 29.627 ms

Loss rate: 0.20%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-05-22 10:59:28

End at: 2018-05-22 10:59:58

Local clock offset: 2.276 ms

Remote clock offset: 3.771 ms

Below is generated by plot.py at 2018-05-22 13:25:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.88 Mbit/s

95th percentile per-packet one-way delay: 27.368 ms

Loss rate: 0.19%

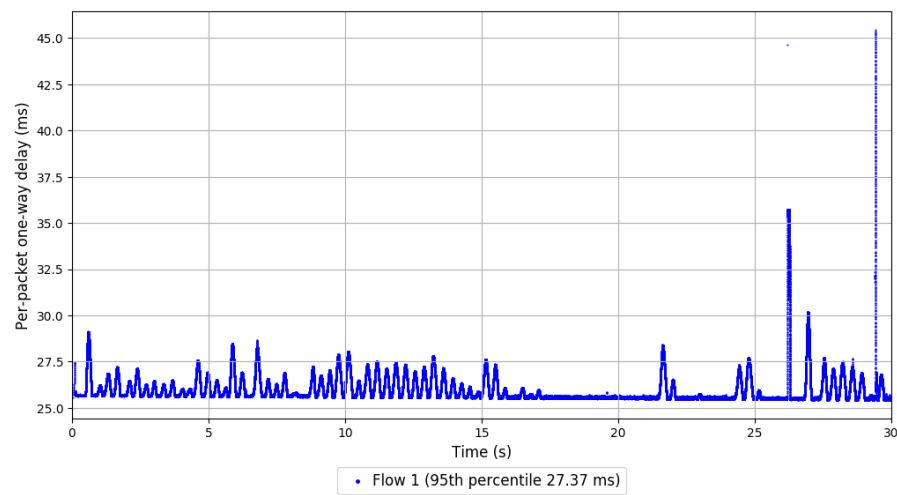
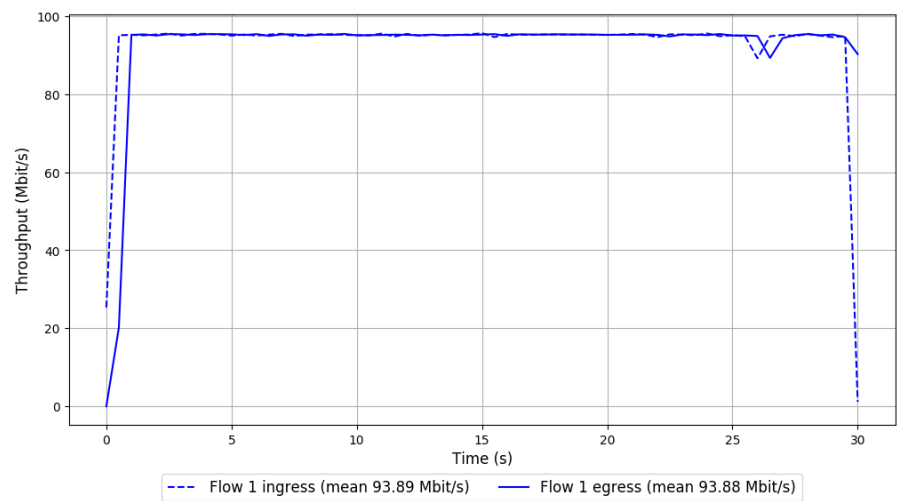
-- Flow 1:

Average throughput: 93.88 Mbit/s

95th percentile per-packet one-way delay: 27.368 ms

Loss rate: 0.19%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-05-22 11:20:14

End at: 2018-05-22 11:20:44

Local clock offset: 7.017 ms

Remote clock offset: 3.12 ms

Below is generated by plot.py at 2018-05-22 13:25:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.62 Mbit/s

95th percentile per-packet one-way delay: 31.632 ms

Loss rate: 0.20%

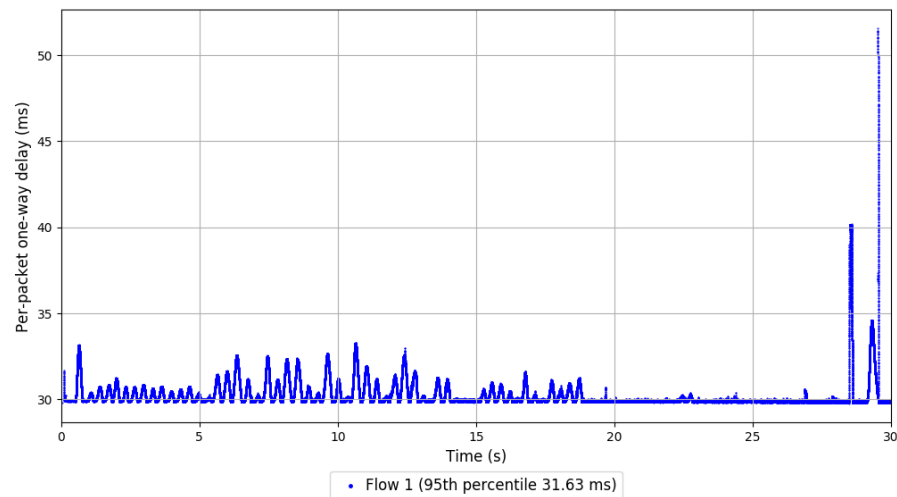
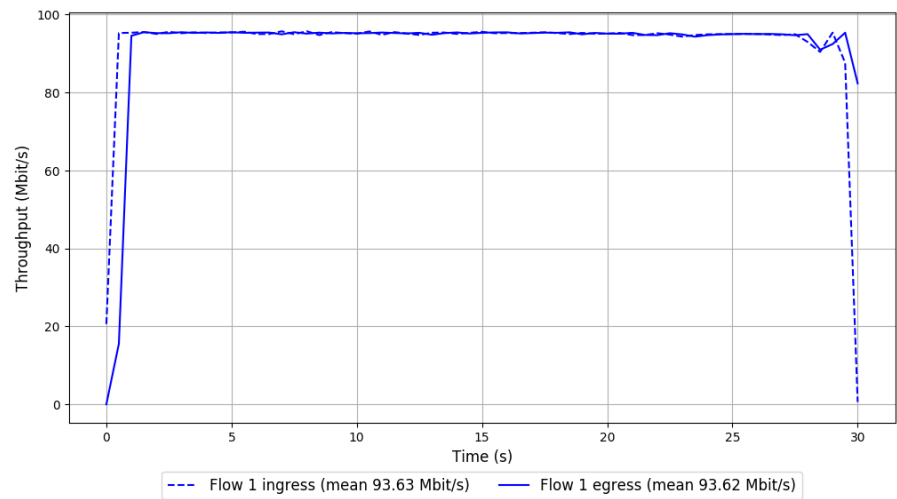
-- Flow 1:

Average throughput: 93.62 Mbit/s

95th percentile per-packet one-way delay: 31.632 ms

Loss rate: 0.20%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-05-22 11:41:01

End at: 2018-05-22 11:41:31

Local clock offset: 1.648 ms

Remote clock offset: 2.494 ms

Below is generated by plot.py at 2018-05-22 13:25:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.89 Mbit/s

95th percentile per-packet one-way delay: 29.341 ms

Loss rate: 0.19%

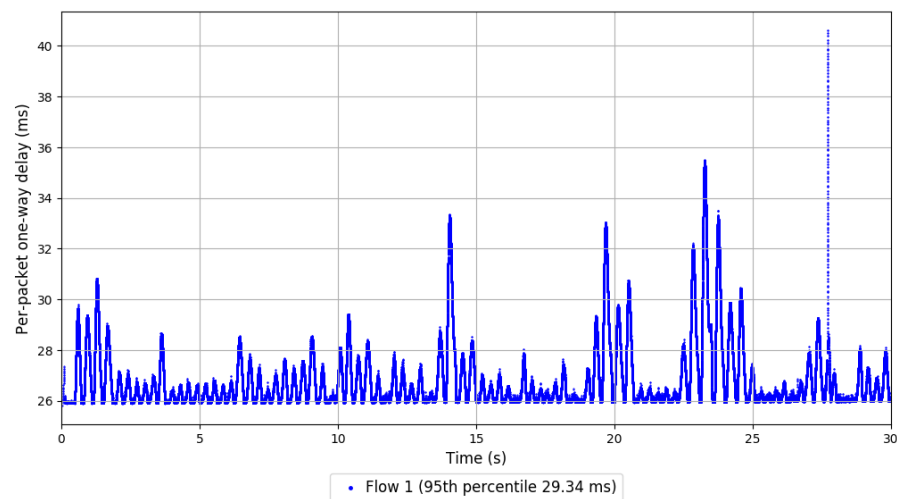
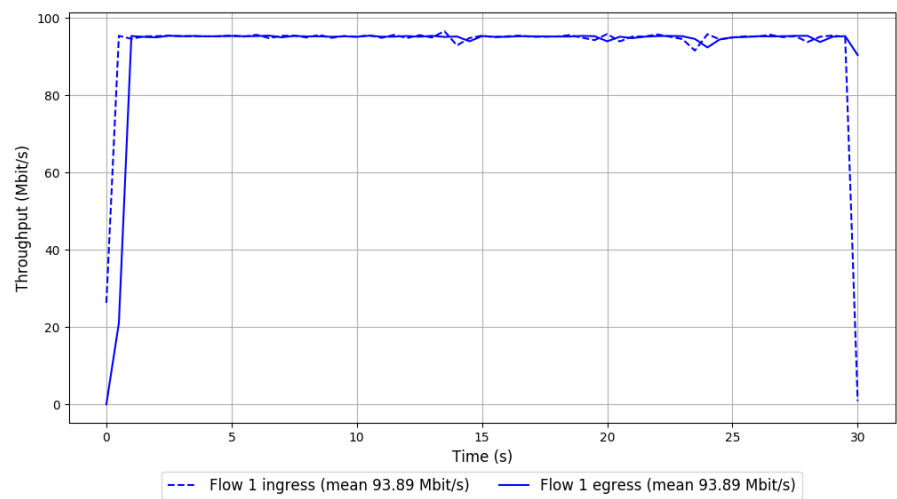
-- Flow 1:

Average throughput: 93.89 Mbit/s

95th percentile per-packet one-way delay: 29.341 ms

Loss rate: 0.19%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-05-22 12:01:53

End at: 2018-05-22 12:02:23

Local clock offset: 0.387 ms

Remote clock offset: 2.439 ms

Below is generated by plot.py at 2018-05-22 13:26:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.78 Mbit/s

95th percentile per-packet one-way delay: 33.156 ms

Loss rate: 0.21%

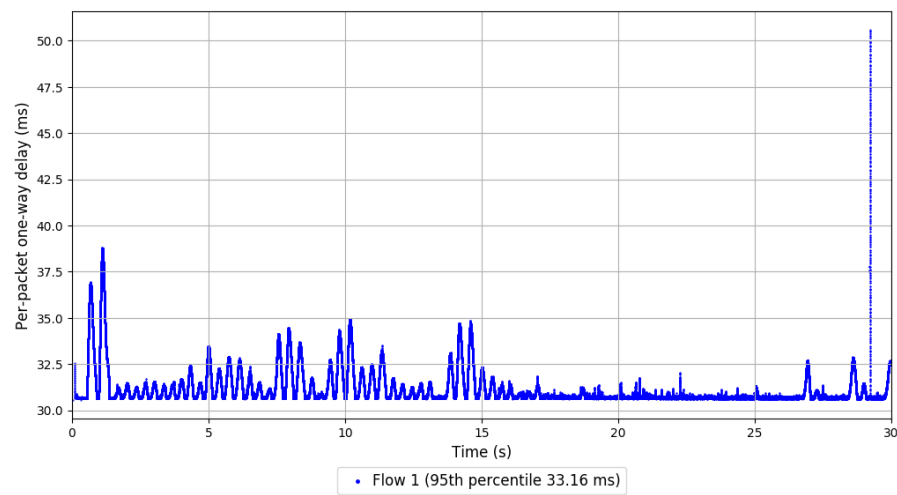
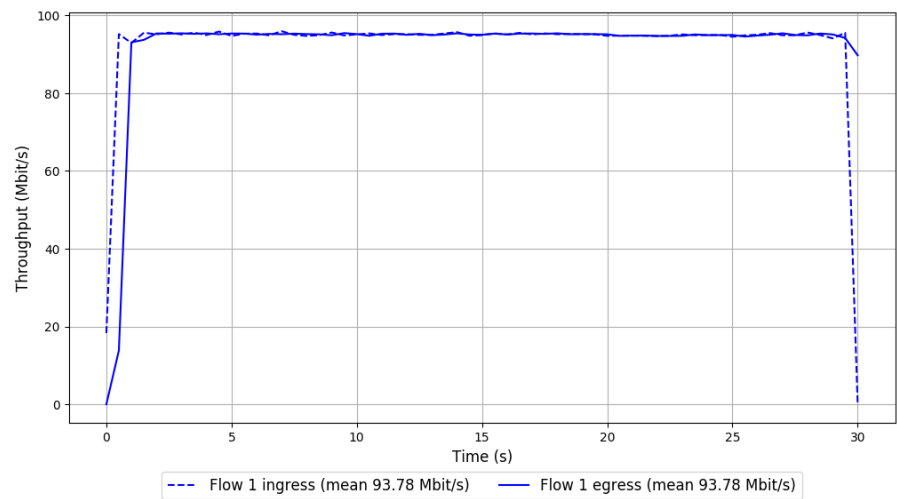
-- Flow 1:

Average throughput: 93.78 Mbit/s

95th percentile per-packet one-way delay: 33.156 ms

Loss rate: 0.21%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-05-22 12:24:08

End at: 2018-05-22 12:24:38

Local clock offset: 0.257 ms

Remote clock offset: 0.229 ms

Below is generated by plot.py at 2018-05-22 13:26:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.77 Mbit/s

95th percentile per-packet one-way delay: 30.743 ms

Loss rate: 0.19%

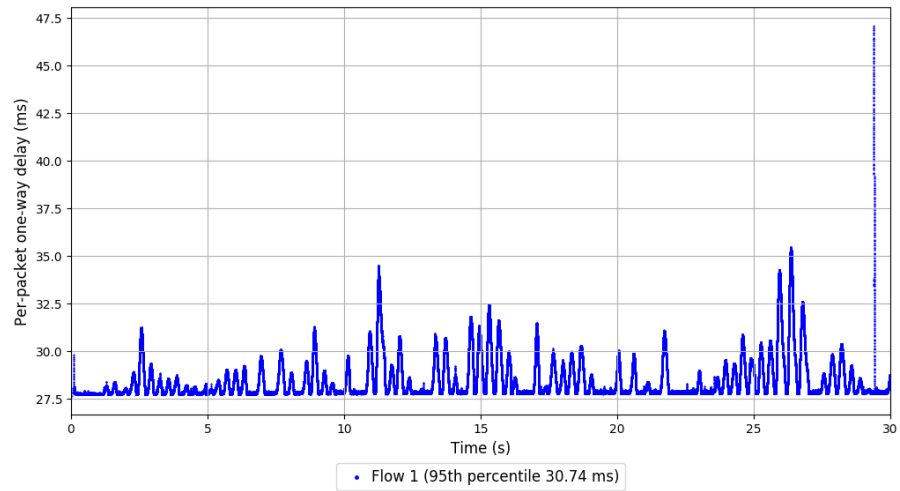
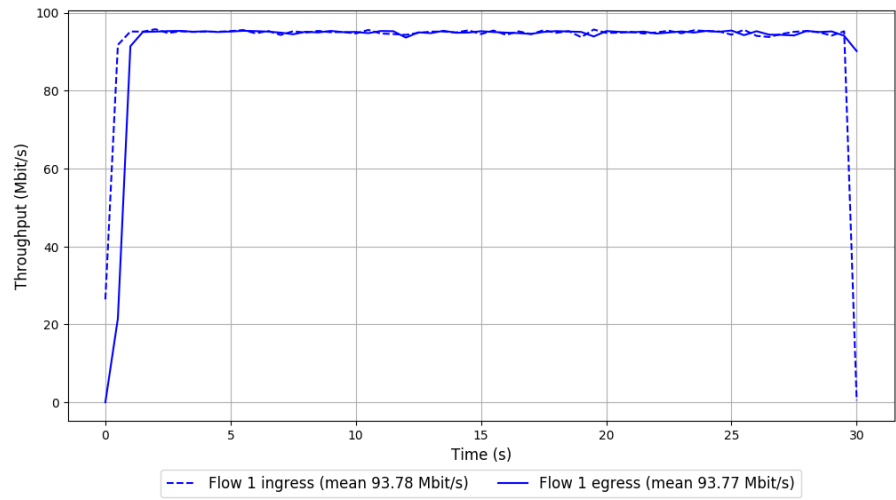
-- Flow 1:

Average throughput: 93.77 Mbit/s

95th percentile per-packet one-way delay: 30.743 ms

Loss rate: 0.19%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-05-22 12:45:03

End at: 2018-05-22 12:45:33

Local clock offset: 0.646 ms

Remote clock offset: 3.238 ms

Below is generated by plot.py at 2018-05-22 13:27:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.30 Mbit/s

95th percentile per-packet one-way delay: 34.235 ms

Loss rate: 0.20%

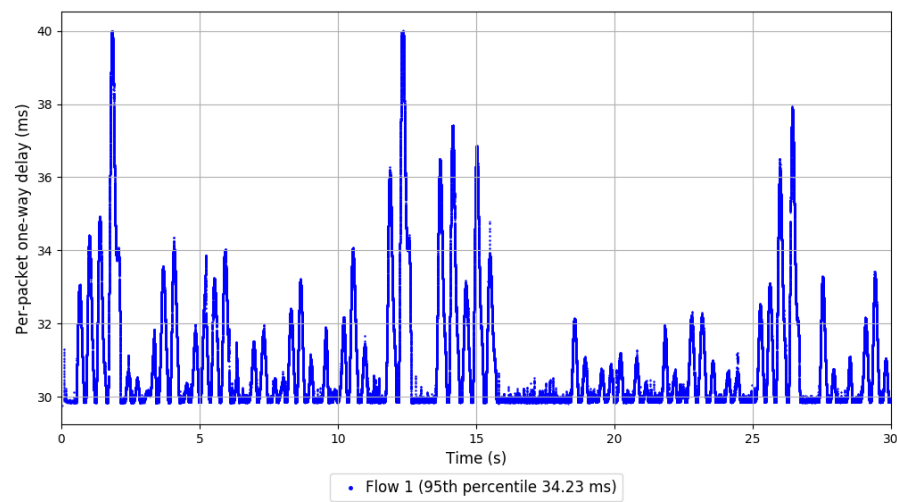
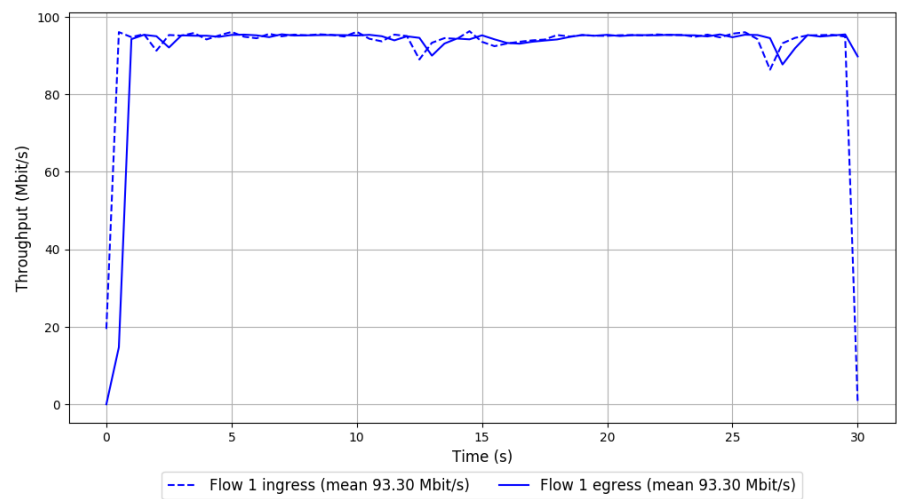
-- Flow 1:

Average throughput: 93.30 Mbit/s

95th percentile per-packet one-way delay: 34.235 ms

Loss rate: 0.20%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-05-22 13:06:22

End at: 2018-05-22 13:06:52

Local clock offset: 0.776 ms

Remote clock offset: 0.487 ms

Below is generated by plot.py at 2018-05-22 13:27:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.23 Mbit/s

95th percentile per-packet one-way delay: 30.799 ms

Loss rate: 0.19%

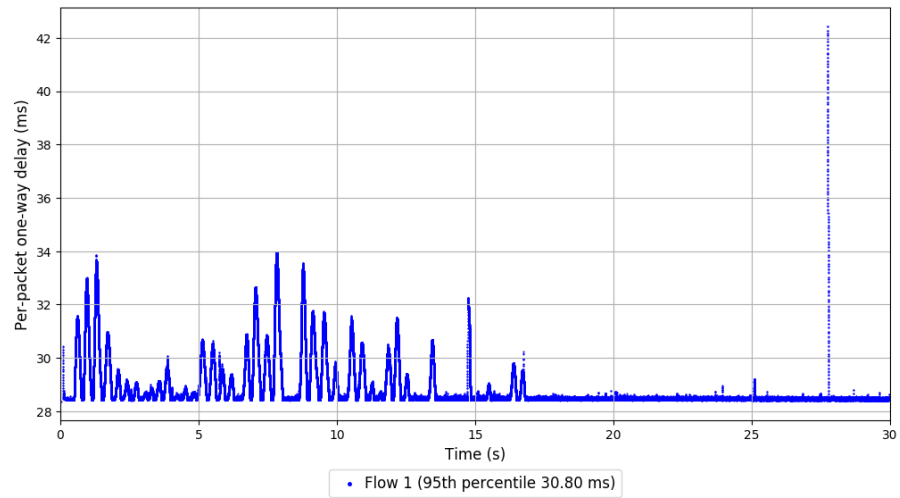
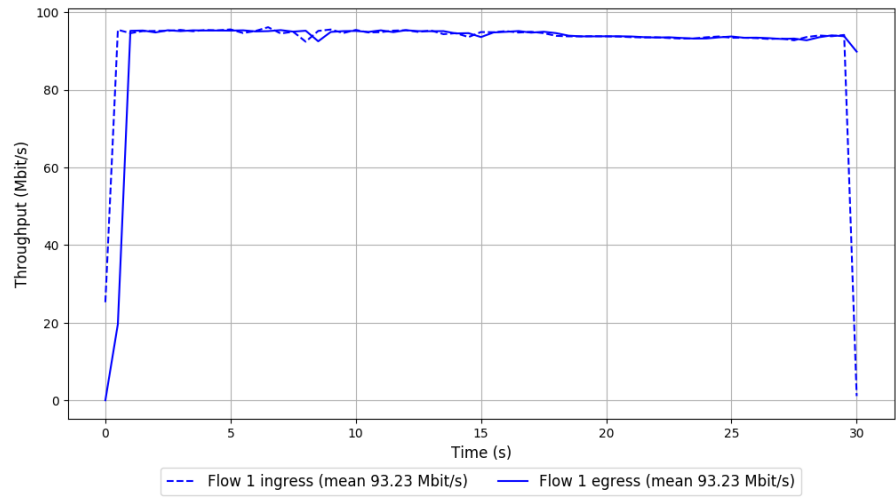
-- Flow 1:

Average throughput: 93.23 Mbit/s

95th percentile per-packet one-way delay: 30.799 ms

Loss rate: 0.19%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-05-22 09:58:35

End at: 2018-05-22 09:59:05

Local clock offset: 0.724 ms

Remote clock offset: 3.924 ms

Below is generated by plot.py at 2018-05-22 13:27:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.86 Mbit/s

95th percentile per-packet one-way delay: 36.025 ms

Loss rate: 0.22%

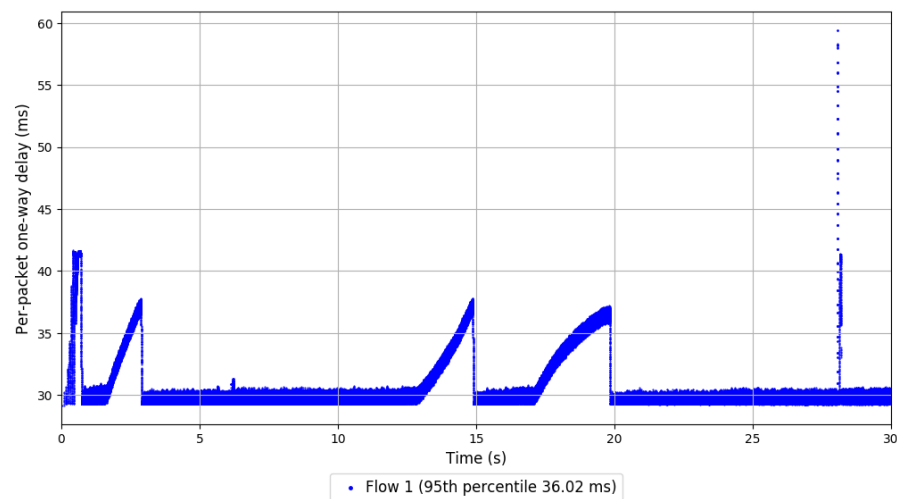
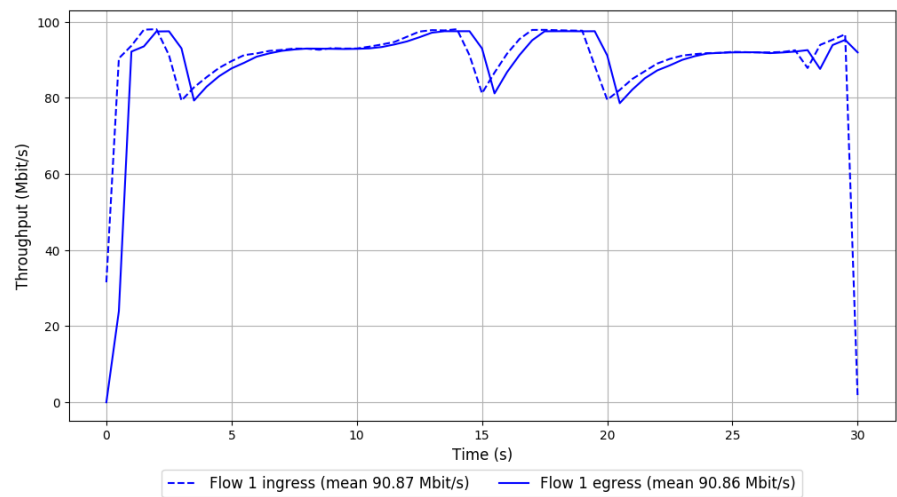
-- Flow 1:

Average throughput: 90.86 Mbit/s

95th percentile per-packet one-way delay: 36.025 ms

Loss rate: 0.22%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-05-22 10:19:19

End at: 2018-05-22 10:19:49

Local clock offset: 1.446 ms

Remote clock offset: 2.966 ms

Below is generated by plot.py at 2018-05-22 13:27:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.37 Mbit/s

95th percentile per-packet one-way delay: 36.911 ms

Loss rate: 0.25%

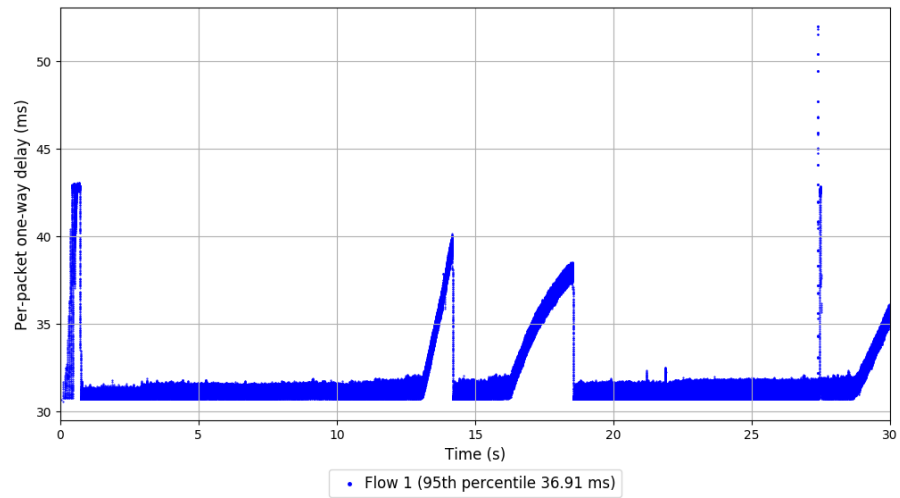
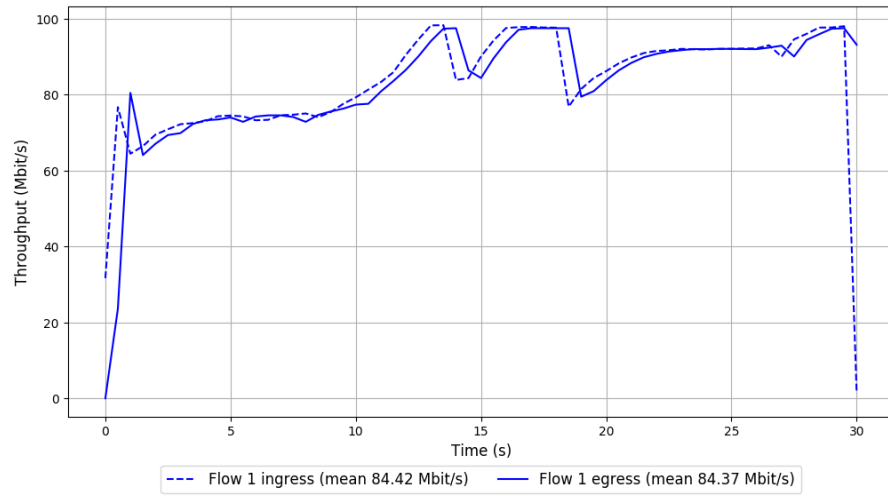
-- Flow 1:

Average throughput: 84.37 Mbit/s

95th percentile per-packet one-way delay: 36.911 ms

Loss rate: 0.25%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-05-22 10:40:05

End at: 2018-05-22 10:40:35

Local clock offset: 0.948 ms

Remote clock offset: 3.547 ms

Below is generated by plot.py at 2018-05-22 13:27:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.33 Mbit/s

95th percentile per-packet one-way delay: 32.692 ms

Loss rate: 0.17%

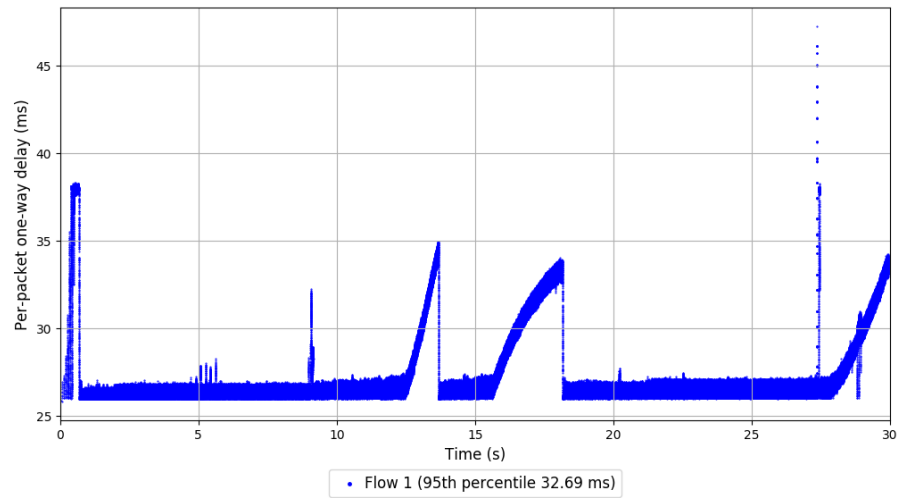
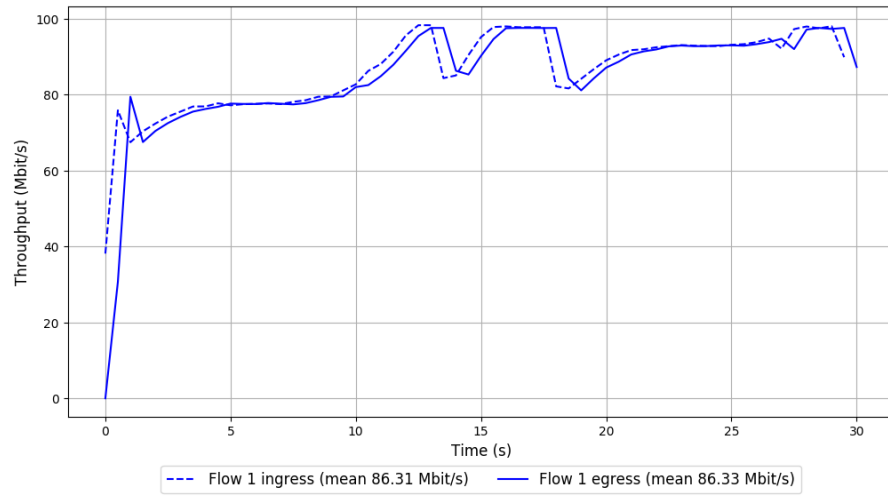
-- Flow 1:

Average throughput: 86.33 Mbit/s

95th percentile per-packet one-way delay: 32.692 ms

Loss rate: 0.17%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-05-22 11:00:50

End at: 2018-05-22 11:01:20

Local clock offset: 2.952 ms

Remote clock offset: 1.244 ms

Below is generated by plot.py at 2018-05-22 13:27:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.70 Mbit/s

95th percentile per-packet one-way delay: 39.968 ms

Loss rate: 0.22%

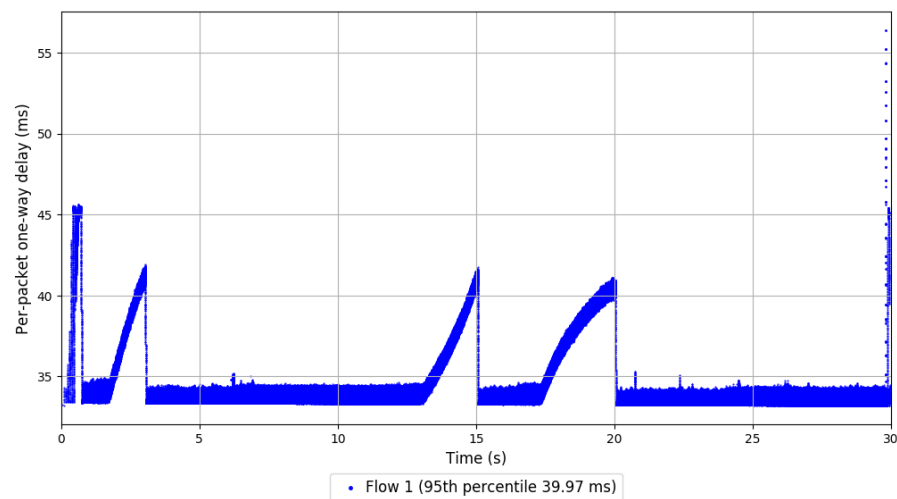
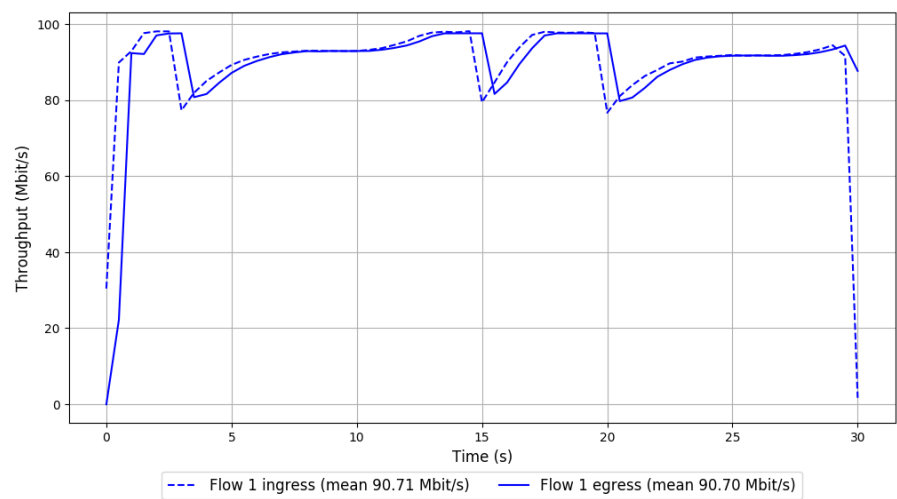
-- Flow 1:

Average throughput: 90.70 Mbit/s

95th percentile per-packet one-way delay: 39.968 ms

Loss rate: 0.22%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-05-22 11:21:36

End at: 2018-05-22 11:22:06

Local clock offset: 7.14 ms

Remote clock offset: 3.413 ms

Below is generated by plot.py at 2018-05-22 13:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.82 Mbit/s

95th percentile per-packet one-way delay: 37.085 ms

Loss rate: 0.22%

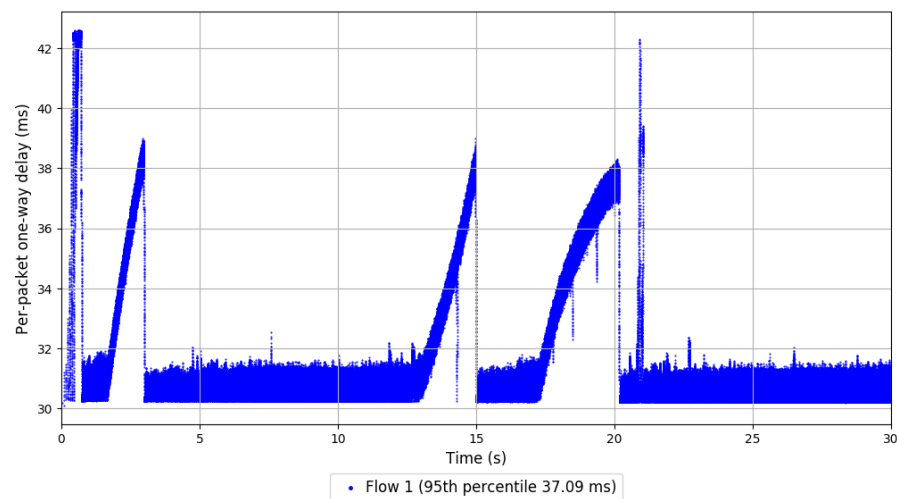
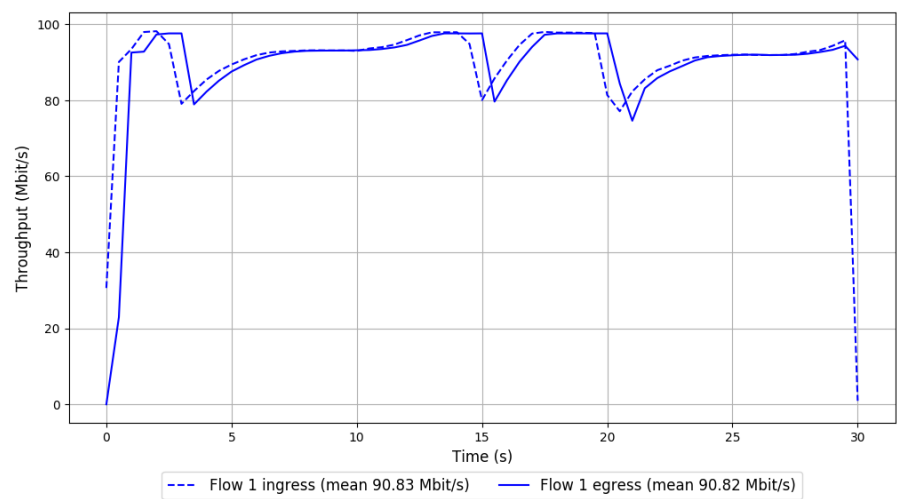
-- Flow 1:

Average throughput: 90.82 Mbit/s

95th percentile per-packet one-way delay: 37.085 ms

Loss rate: 0.22%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-05-22 11:42:23

End at: 2018-05-22 11:42:53

Local clock offset: 1.446 ms

Remote clock offset: 2.476 ms

Below is generated by plot.py at 2018-05-22 13:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.97 Mbit/s

95th percentile per-packet one-way delay: 37.647 ms

Loss rate: 0.25%

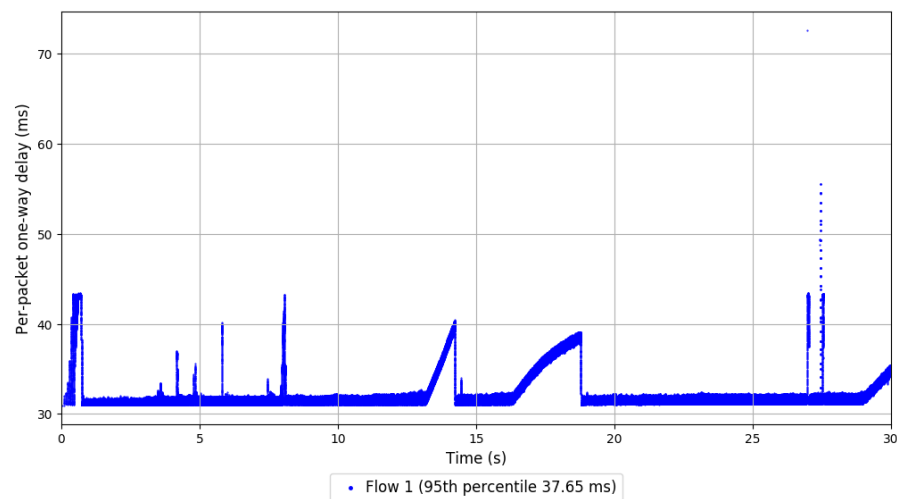
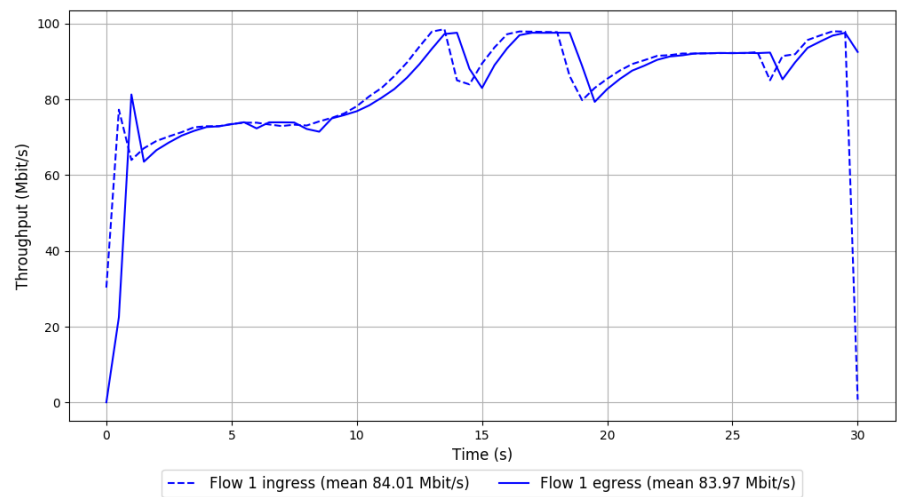
-- Flow 1:

Average throughput: 83.97 Mbit/s

95th percentile per-packet one-way delay: 37.647 ms

Loss rate: 0.25%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-05-22 12:03:15

End at: 2018-05-22 12:03:45

Local clock offset: 0.414 ms

Remote clock offset: 0.259 ms

Below is generated by plot.py at 2018-05-22 13:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.68 Mbit/s

95th percentile per-packet one-way delay: 38.930 ms

Loss rate: 0.25%

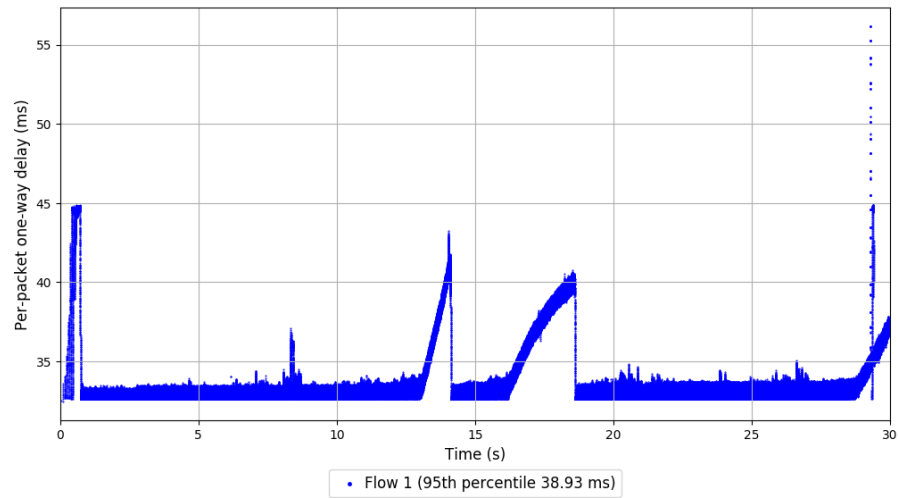
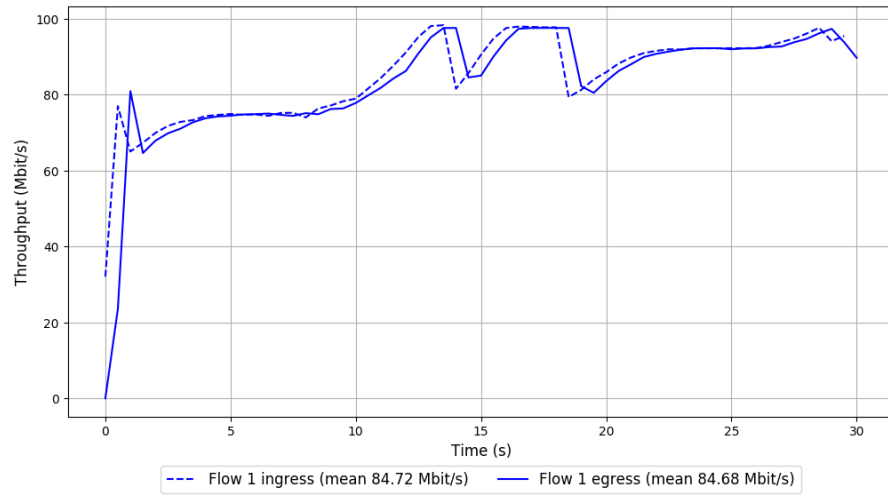
-- Flow 1:

Average throughput: 84.68 Mbit/s

95th percentile per-packet one-way delay: 38.930 ms

Loss rate: 0.25%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-05-22 12:25:31

End at: 2018-05-22 12:26:01

Local clock offset: 0.311 ms

Remote clock offset: 2.848 ms

Below is generated by plot.py at 2018-05-22 13:27:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.70 Mbit/s

95th percentile per-packet one-way delay: 38.154 ms

Loss rate: 0.22%

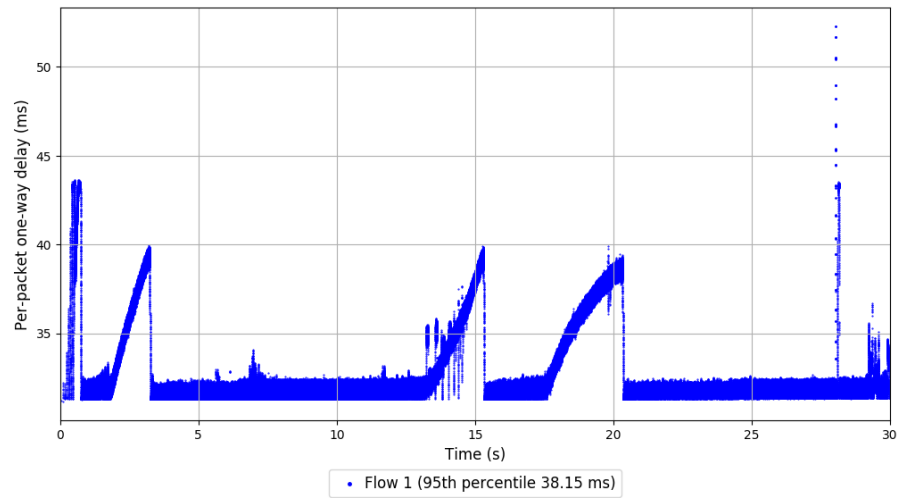
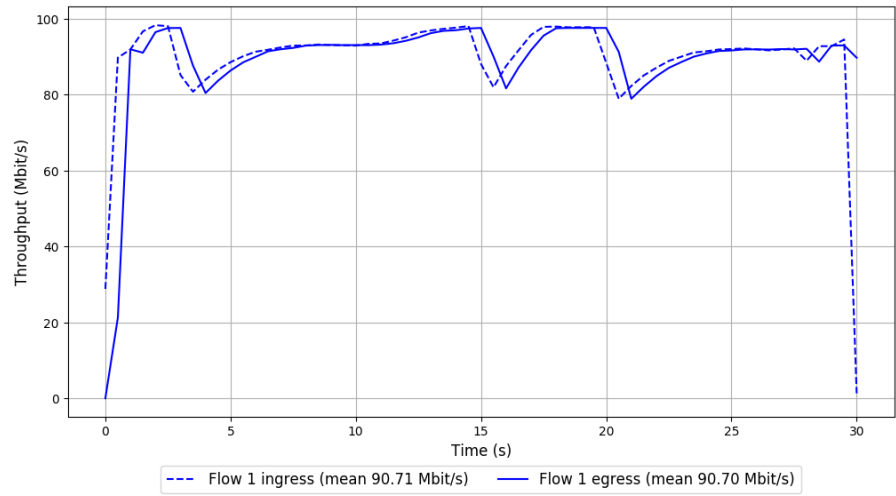
-- Flow 1:

Average throughput: 90.70 Mbit/s

95th percentile per-packet one-way delay: 38.154 ms

Loss rate: 0.22%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-05-22 12:46:28

End at: 2018-05-22 12:46:58

Local clock offset: 0.558 ms

Remote clock offset: 3.271 ms

Below is generated by plot.py at 2018-05-22 13:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.63 Mbit/s

95th percentile per-packet one-way delay: 35.961 ms

Loss rate: 0.25%

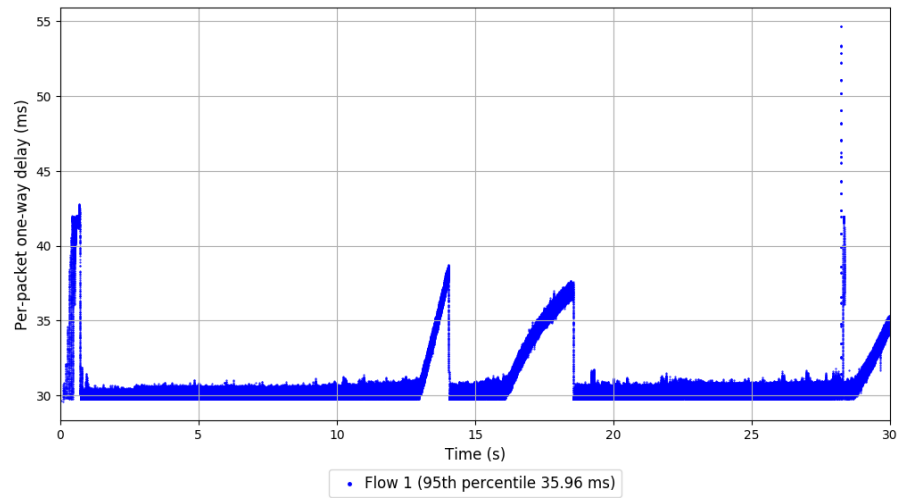
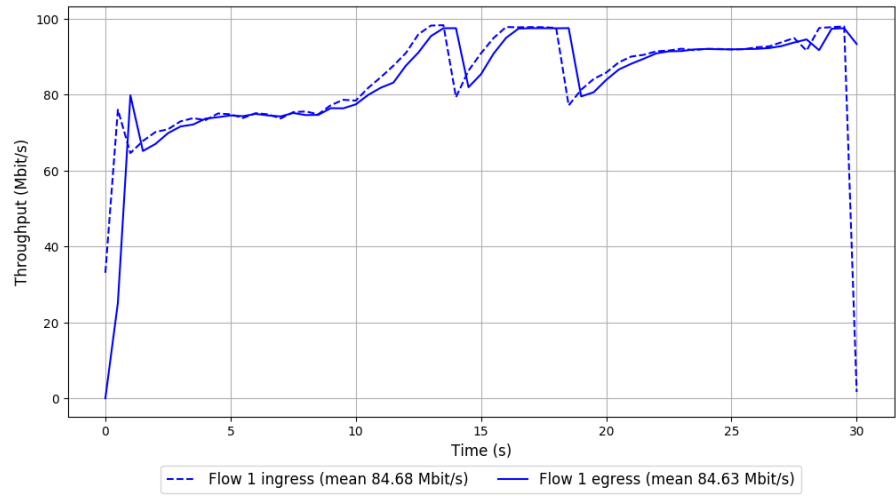
-- Flow 1:

Average throughput: 84.63 Mbit/s

95th percentile per-packet one-way delay: 35.961 ms

Loss rate: 0.25%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-05-22 13:07:43

End at: 2018-05-22 13:08:13

Local clock offset: 0.884 ms

Remote clock offset: 2.474 ms

Below is generated by plot.py at 2018-05-22 13:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.69 Mbit/s

95th percentile per-packet one-way delay: 36.390 ms

Loss rate: 0.25%

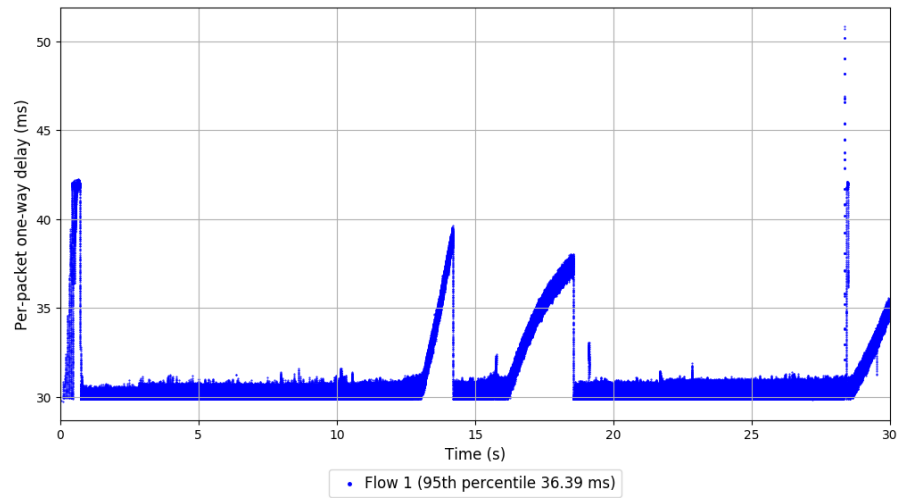
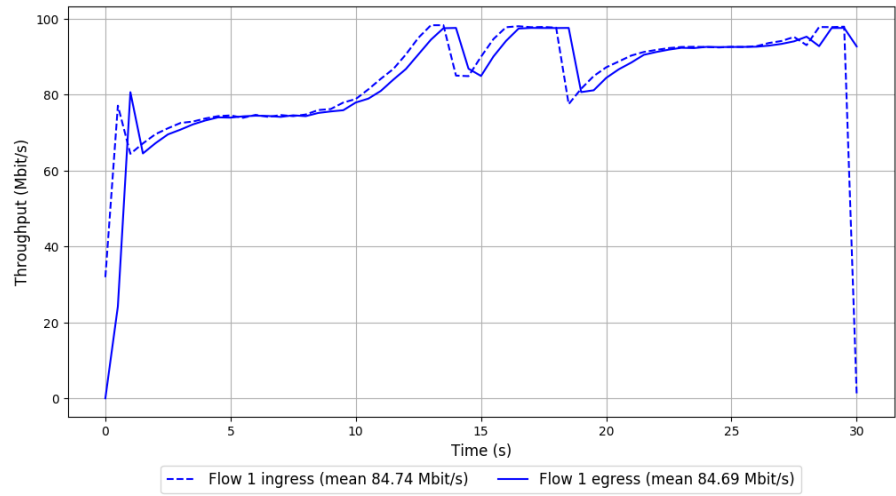
-- Flow 1:

Average throughput: 84.69 Mbit/s

95th percentile per-packet one-way delay: 36.390 ms

Loss rate: 0.25%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-05-22 10:11:28

End at: 2018-05-22 10:11:58

Local clock offset: 1.429 ms

Remote clock offset: 1.015 ms

Below is generated by plot.py at 2018-05-22 13:28:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.35 Mbit/s

95th percentile per-packet one-way delay: 39.048 ms

Loss rate: 0.22%

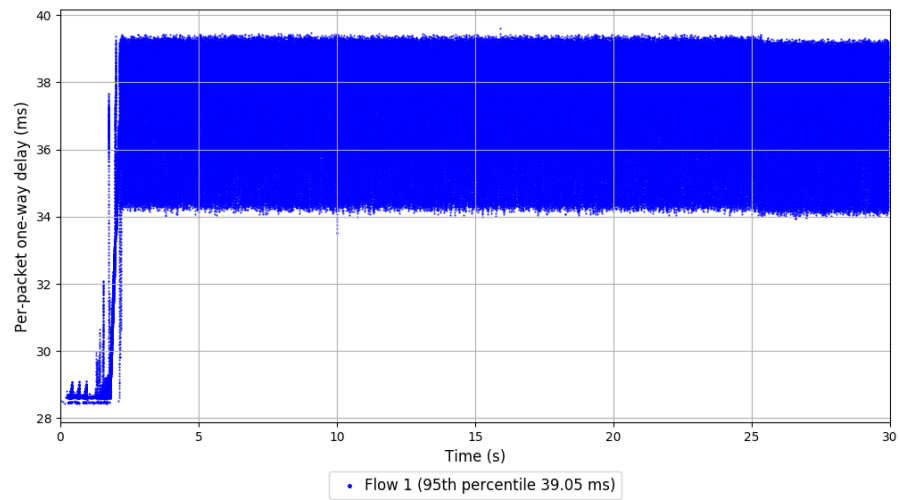
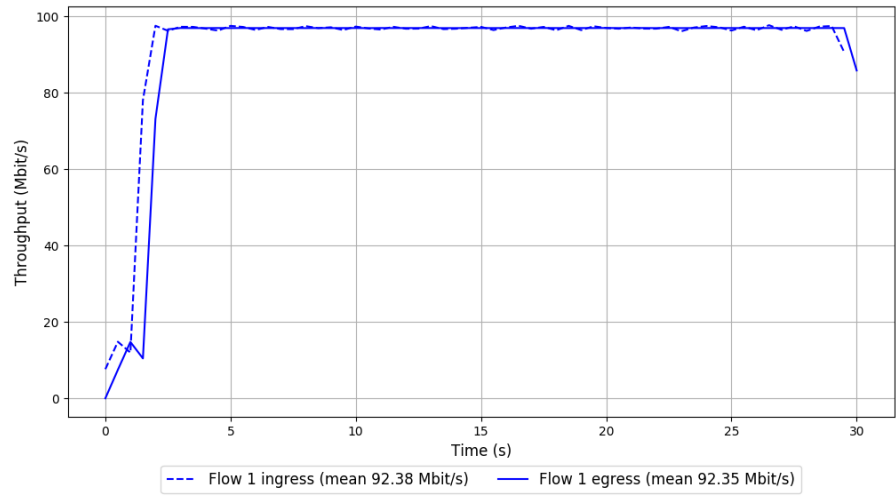
-- Flow 1:

Average throughput: 92.35 Mbit/s

95th percentile per-packet one-way delay: 39.048 ms

Loss rate: 0.22%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-05-22 10:32:13

End at: 2018-05-22 10:32:43

Local clock offset: 1.246 ms

Remote clock offset: 3.421 ms

Below is generated by plot.py at 2018-05-22 13:28:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.33 Mbit/s

95th percentile per-packet one-way delay: 39.937 ms

Loss rate: 0.24%

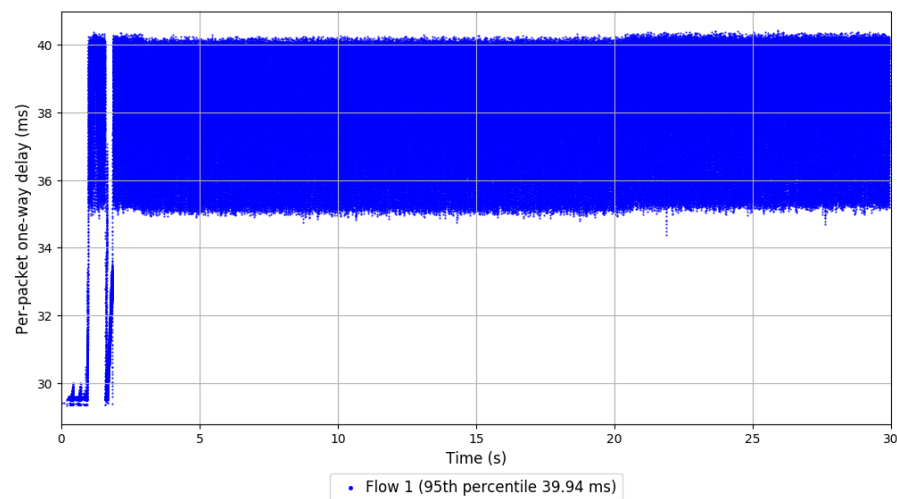
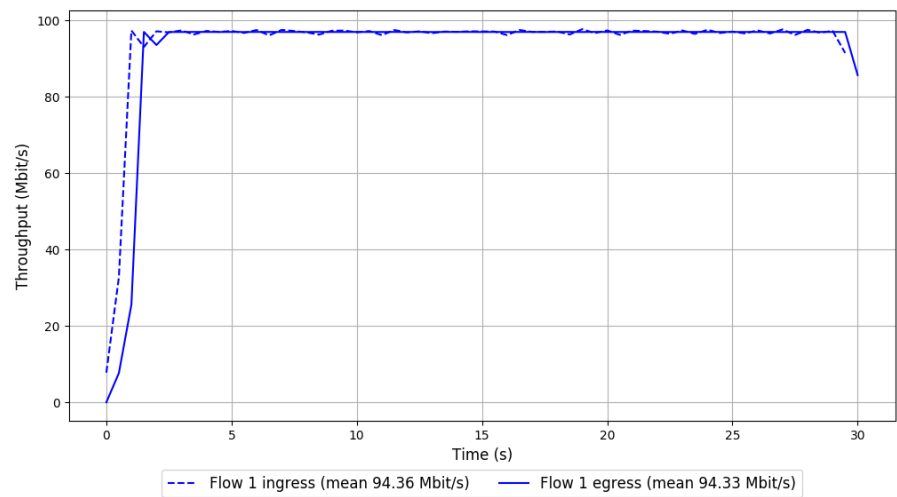
-- Flow 1:

Average throughput: 94.33 Mbit/s

95th percentile per-packet one-way delay: 39.937 ms

Loss rate: 0.24%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-05-22 10:52:58

End at: 2018-05-22 10:53:28

Local clock offset: 0.666 ms

Remote clock offset: 1.151 ms

Below is generated by plot.py at 2018-05-22 13:28:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.33 Mbit/s

95th percentile per-packet one-way delay: 42.434 ms

Loss rate: 0.23%

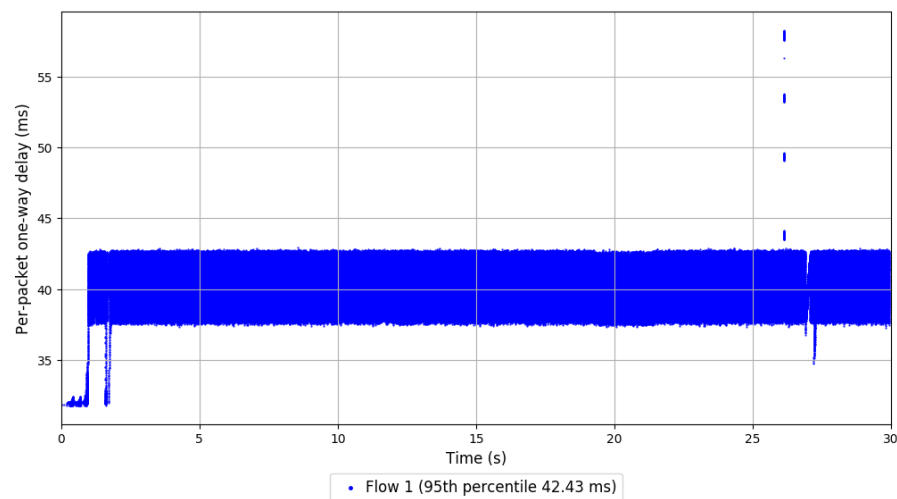
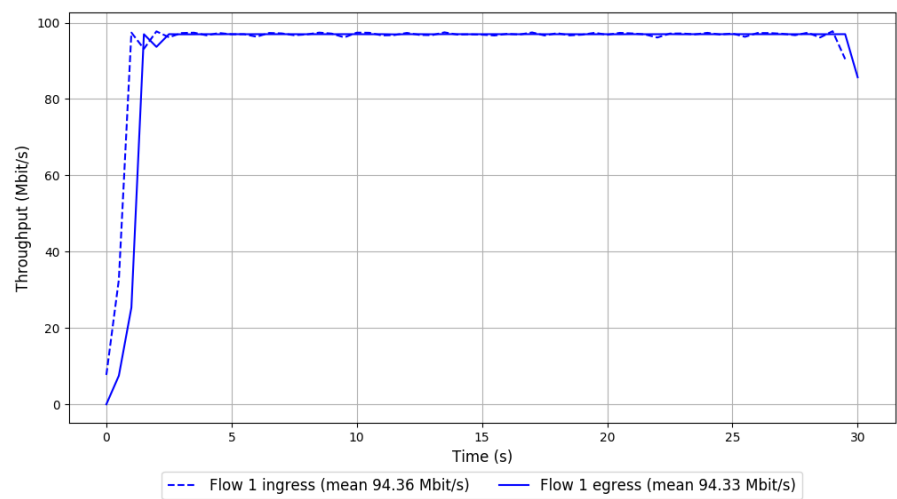
-- Flow 1:

Average throughput: 94.33 Mbit/s

95th percentile per-packet one-way delay: 42.434 ms

Loss rate: 0.23%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-05-22 11:13:45

End at: 2018-05-22 11:14:15

Local clock offset: 6.249 ms

Remote clock offset: 3.767 ms

Below is generated by plot.py at 2018-05-22 13:28:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.44 Mbit/s

95th percentile per-packet one-way delay: 36.217 ms

Loss rate: 0.22%

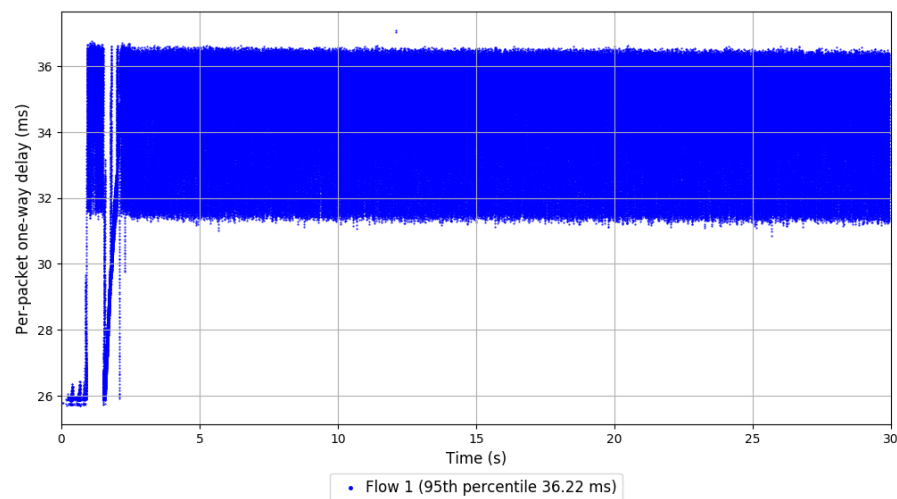
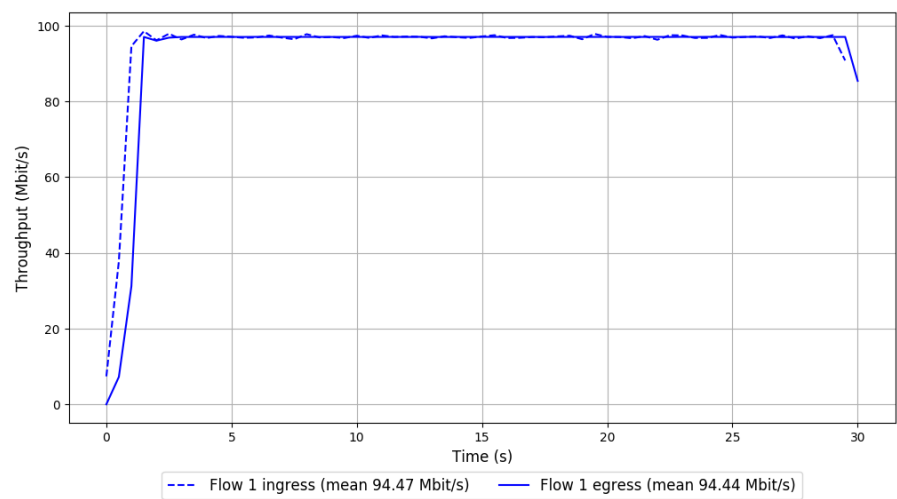
-- Flow 1:

Average throughput: 94.44 Mbit/s

95th percentile per-packet one-way delay: 36.217 ms

Loss rate: 0.22%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-05-22 11:34:31

End at: 2018-05-22 11:35:01

Local clock offset: 3.285 ms

Remote clock offset: 2.637 ms

Below is generated by plot.py at 2018-05-22 13:28:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.40 Mbit/s

95th percentile per-packet one-way delay: 40.804 ms

Loss rate: 0.25%

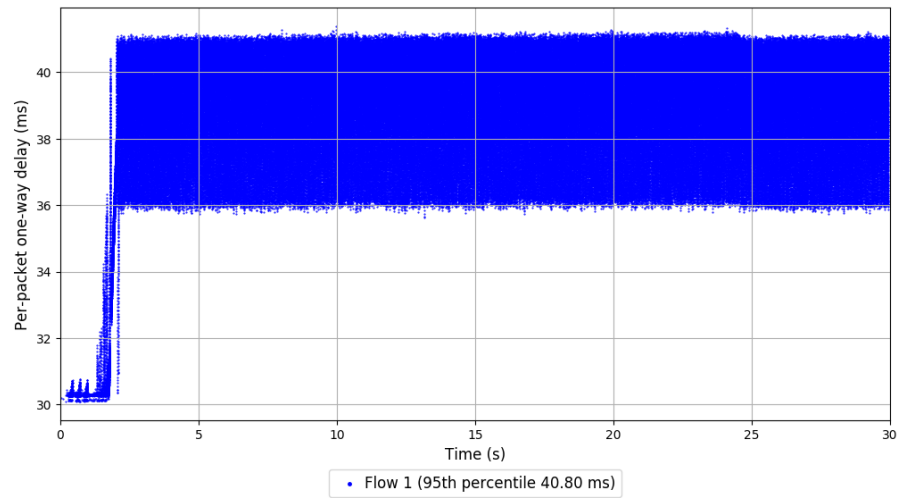
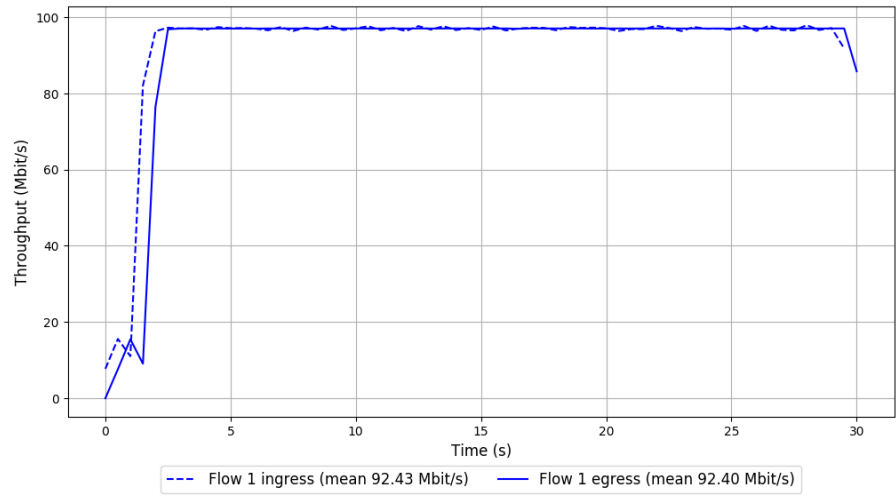
-- Flow 1:

Average throughput: 92.40 Mbit/s

95th percentile per-packet one-way delay: 40.804 ms

Loss rate: 0.25%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-05-22 11:55:21

End at: 2018-05-22 11:55:51

Local clock offset: 0.041 ms

Remote clock offset: 2.467 ms

Below is generated by plot.py at 2018-05-22 13:28:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.47 Mbit/s

95th percentile per-packet one-way delay: 36.840 ms

Loss rate: 0.23%

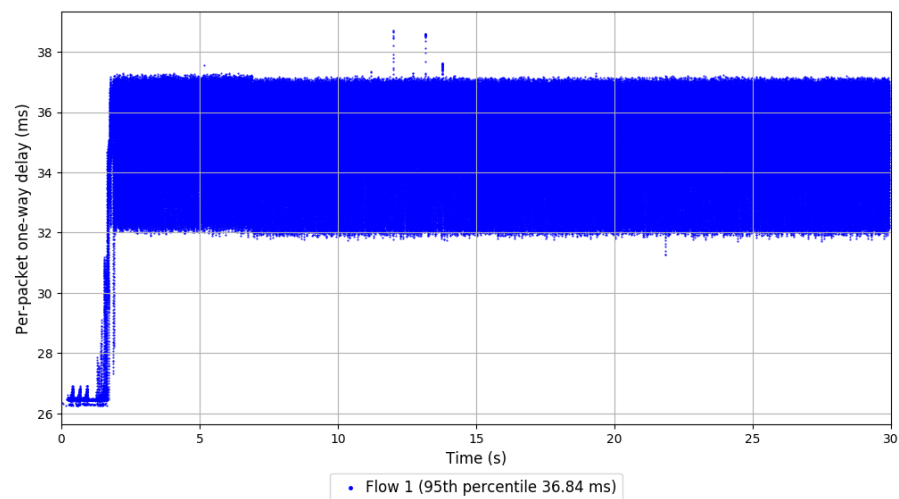
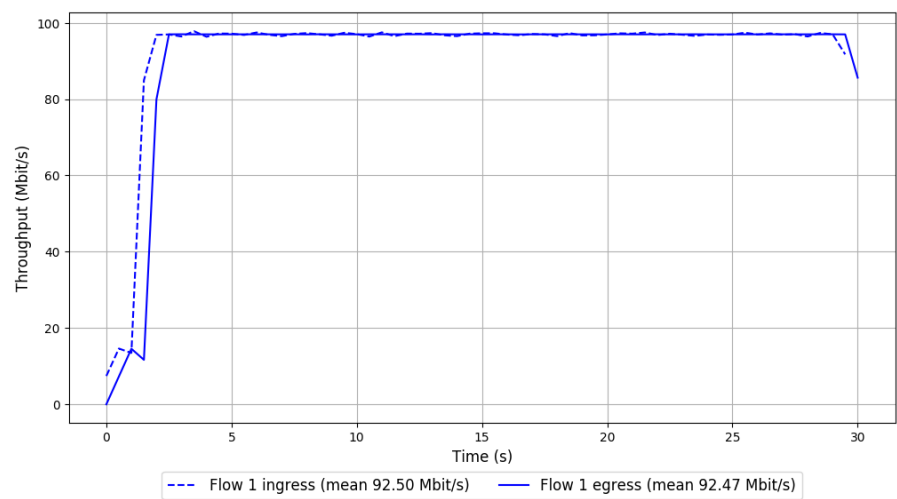
-- Flow 1:

Average throughput: 92.47 Mbit/s

95th percentile per-packet one-way delay: 36.840 ms

Loss rate: 0.23%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-05-22 12:16:49

End at: 2018-05-22 12:17:19

Local clock offset: 0.474 ms

Remote clock offset: 2.404 ms

Below is generated by plot.py at 2018-05-22 13:29:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.82 Mbit/s

95th percentile per-packet one-way delay: 40.639 ms

Loss rate: 0.24%

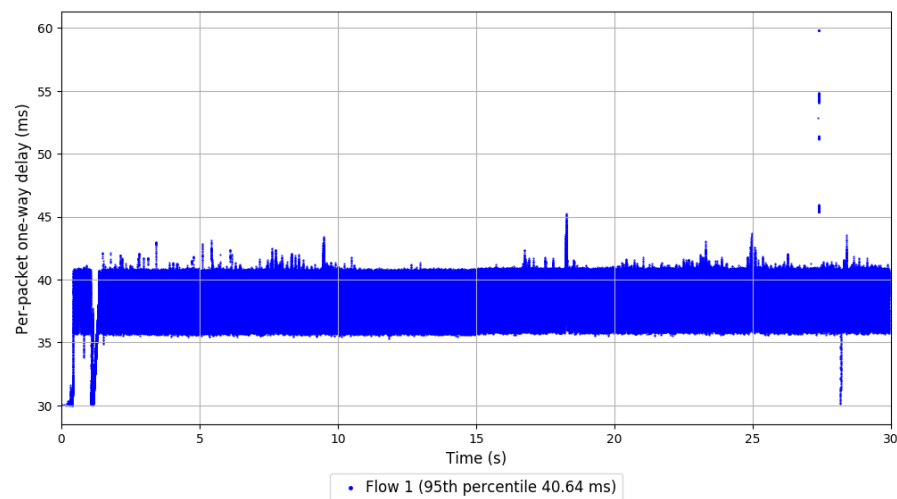
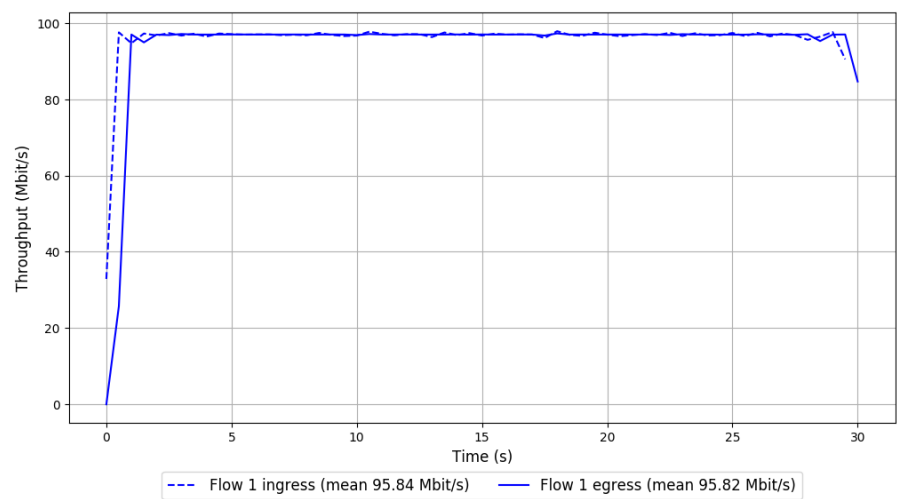
-- Flow 1:

Average throughput: 95.82 Mbit/s

95th percentile per-packet one-way delay: 40.639 ms

Loss rate: 0.24%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-05-22 12:38:29

End at: 2018-05-22 12:38:59

Local clock offset: 0.63 ms

Remote clock offset: 0.979 ms

Below is generated by plot.py at 2018-05-22 13:29:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.34 Mbit/s

95th percentile per-packet one-way delay: 38.376 ms

Loss rate: 0.23%

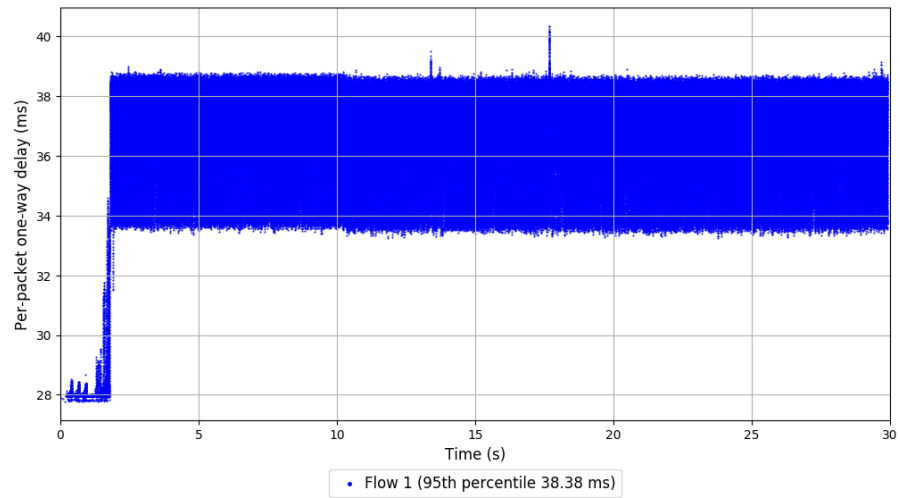
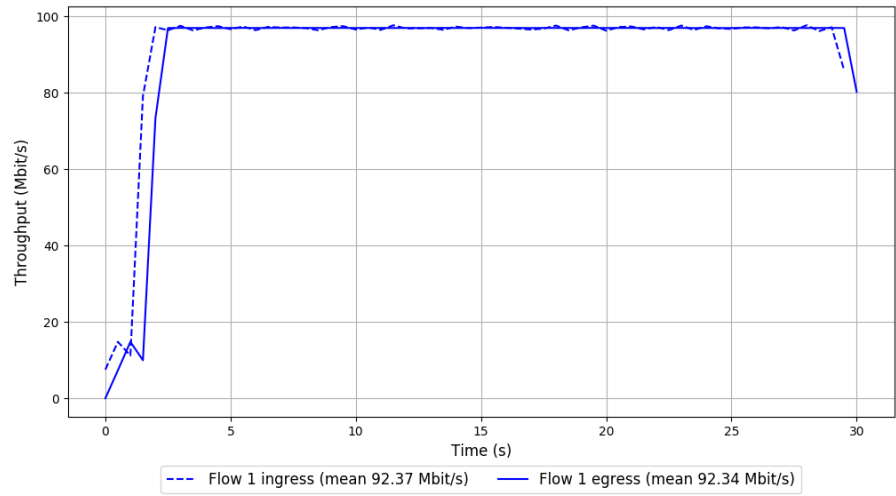
-- Flow 1:

Average throughput: 92.34 Mbit/s

95th percentile per-packet one-way delay: 38.376 ms

Loss rate: 0.23%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-05-22 12:59:46

End at: 2018-05-22 13:00:16

Local clock offset: 0.694 ms

Remote clock offset: 2.891 ms

Below is generated by plot.py at 2018-05-22 13:30:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.33 Mbit/s

95th percentile per-packet one-way delay: 40.166 ms

Loss rate: 0.23%

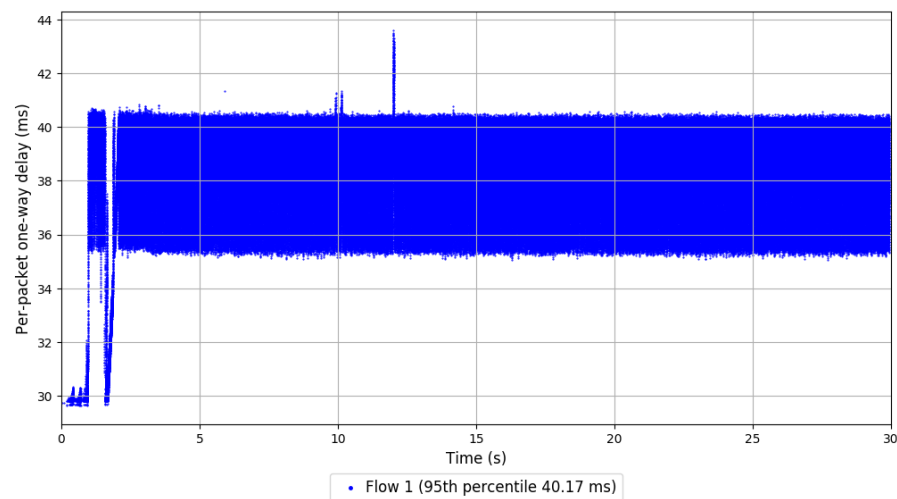
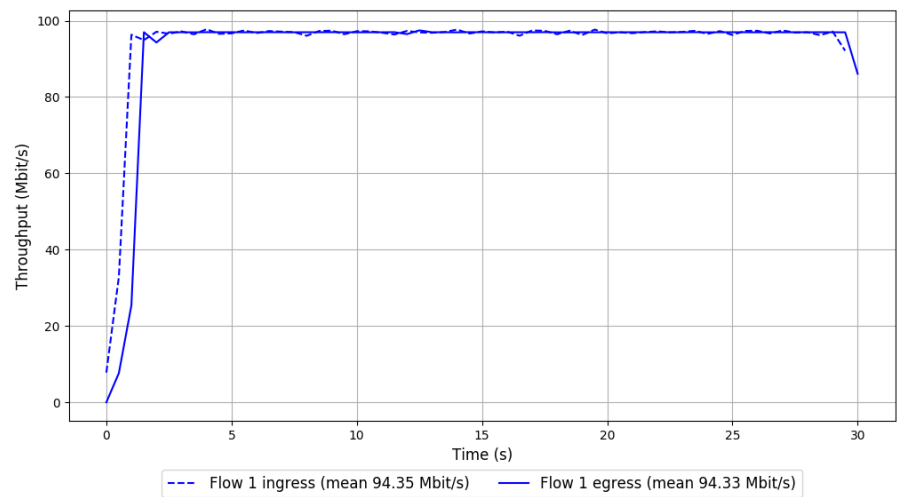
-- Flow 1:

Average throughput: 94.33 Mbit/s

95th percentile per-packet one-way delay: 40.166 ms

Loss rate: 0.23%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-05-22 13:20:36

End at: 2018-05-22 13:21:06

Local clock offset: 0.929 ms

Remote clock offset: 2.659 ms

Below is generated by plot.py at 2018-05-22 13:30:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.81 Mbit/s

95th percentile per-packet one-way delay: 41.537 ms

Loss rate: 0.24%

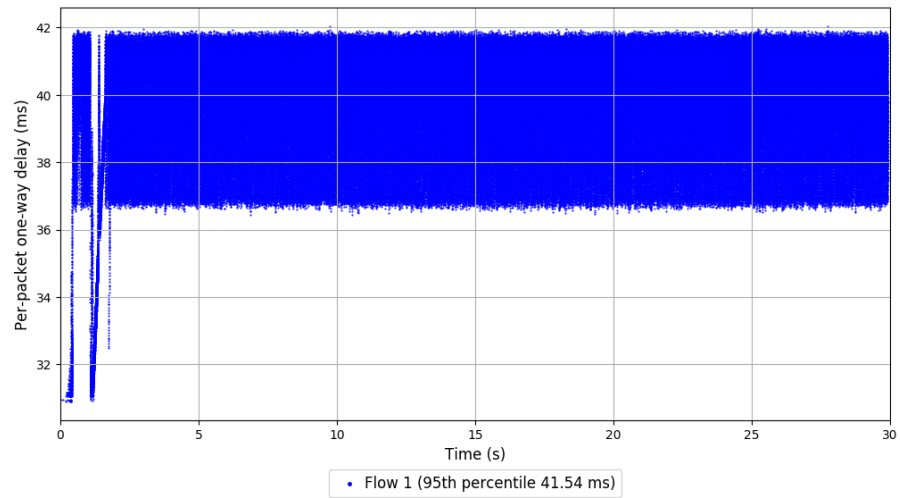
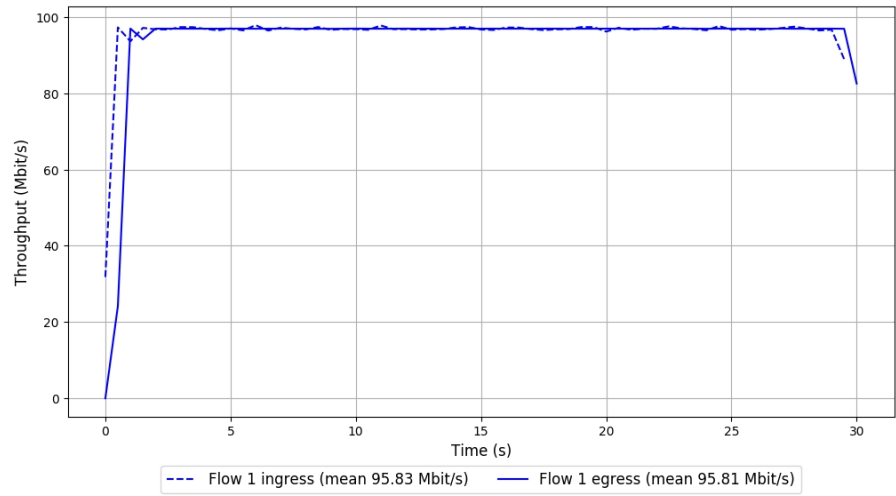
-- Flow 1:

Average throughput: 95.81 Mbit/s

95th percentile per-packet one-way delay: 41.537 ms

Loss rate: 0.24%

Run 10: Report of FillP — Data Link

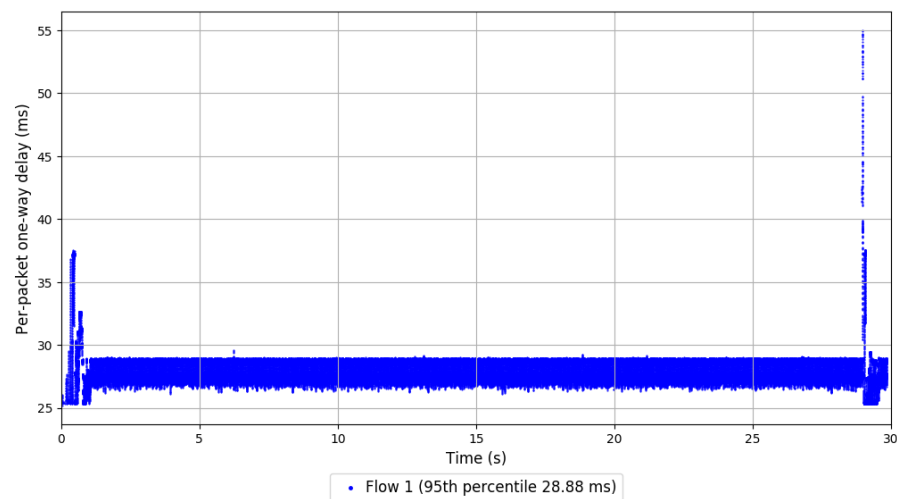
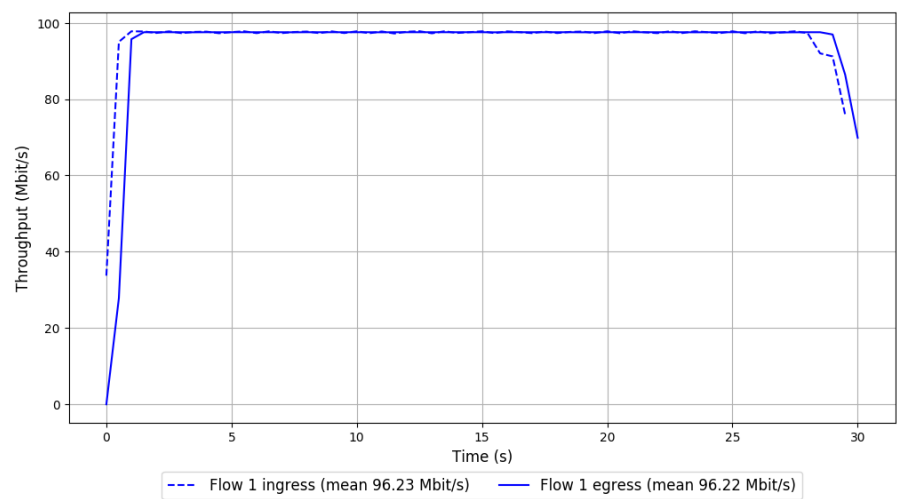


```
Run 1: Statistics of Indigo

Start at: 2018-05-22 09:53:21
End at: 2018-05-22 09:53:51
Local clock offset: 0.515 ms
Remote clock offset: 3.846 ms

# Below is generated by plot.py at 2018-05-22 13:30:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.22 Mbit/s
95th percentile per-packet one-way delay: 28.883 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 96.22 Mbit/s
95th percentile per-packet one-way delay: 28.883 ms
Loss rate: 0.20%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-05-22 10:14:05

End at: 2018-05-22 10:14:35

Local clock offset: 1.407 ms

Remote clock offset: 3.043 ms

Below is generated by plot.py at 2018-05-22 13:30:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.06 Mbit/s

95th percentile per-packet one-way delay: 30.453 ms

Loss rate: 0.20%

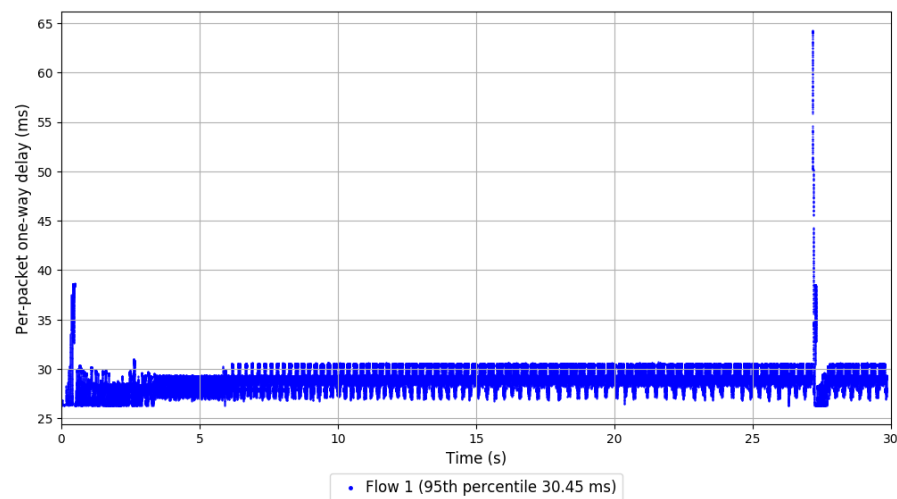
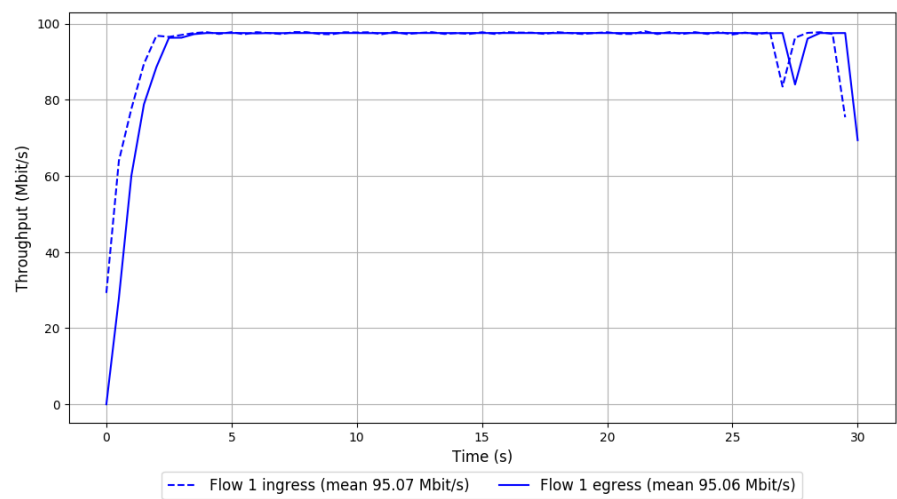
-- Flow 1:

Average throughput: 95.06 Mbit/s

95th percentile per-packet one-way delay: 30.453 ms

Loss rate: 0.20%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-05-22 10:34:50

End at: 2018-05-22 10:35:20

Local clock offset: 1.03 ms

Remote clock offset: 3.025 ms

Below is generated by plot.py at 2018-05-22 13:30:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.04 Mbit/s

95th percentile per-packet one-way delay: 31.079 ms

Loss rate: 0.20%

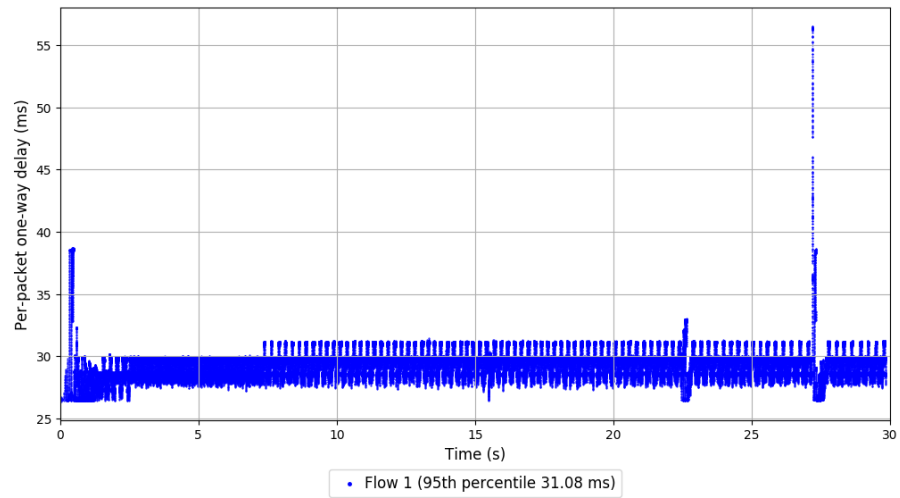
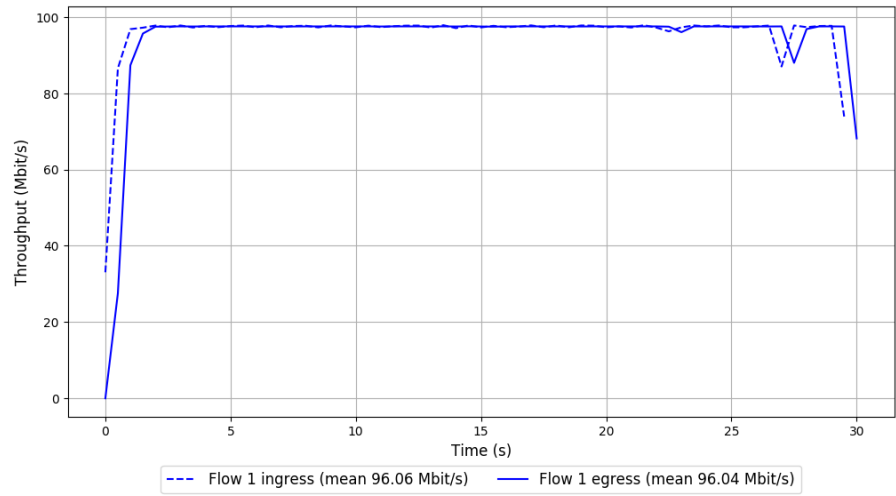
-- Flow 1:

Average throughput: 96.04 Mbit/s

95th percentile per-packet one-way delay: 31.079 ms

Loss rate: 0.20%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-05-22 10:55:35

End at: 2018-05-22 10:56:05

Local clock offset: 0.592 ms

Remote clock offset: 3.262 ms

Below is generated by plot.py at 2018-05-22 13:30:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.05 Mbit/s

95th percentile per-packet one-way delay: 35.347 ms

Loss rate: 0.22%

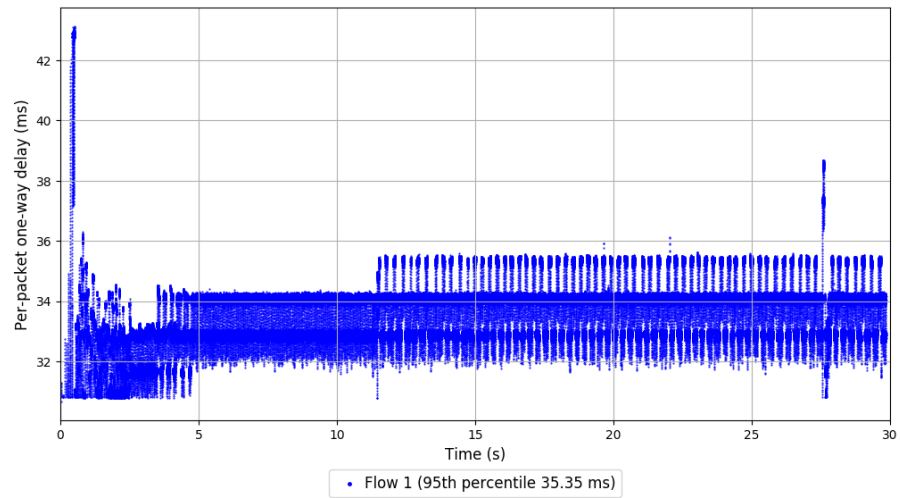
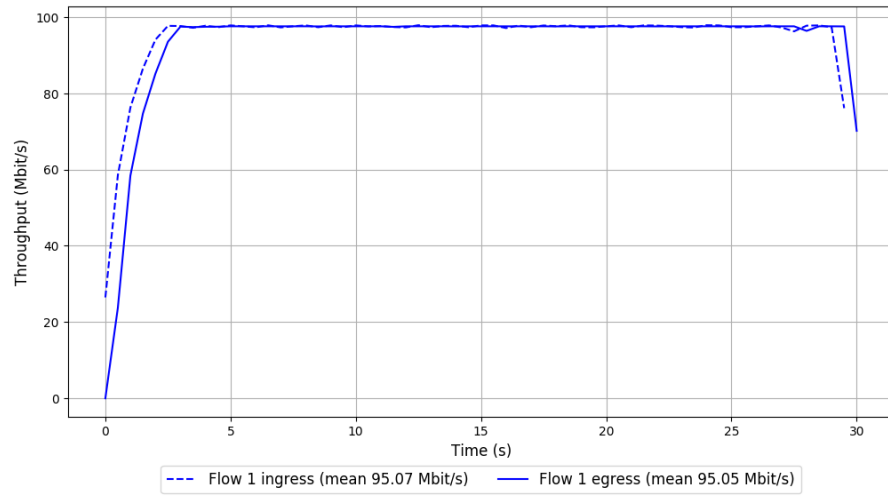
-- Flow 1:

Average throughput: 95.05 Mbit/s

95th percentile per-packet one-way delay: 35.347 ms

Loss rate: 0.22%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-05-22 11:16:21

End at: 2018-05-22 11:16:51

Local clock offset: 6.6 ms

Remote clock offset: 3.644 ms

Below is generated by plot.py at 2018-05-22 13:30:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.84 Mbit/s

95th percentile per-packet one-way delay: 29.278 ms

Loss rate: 0.20%

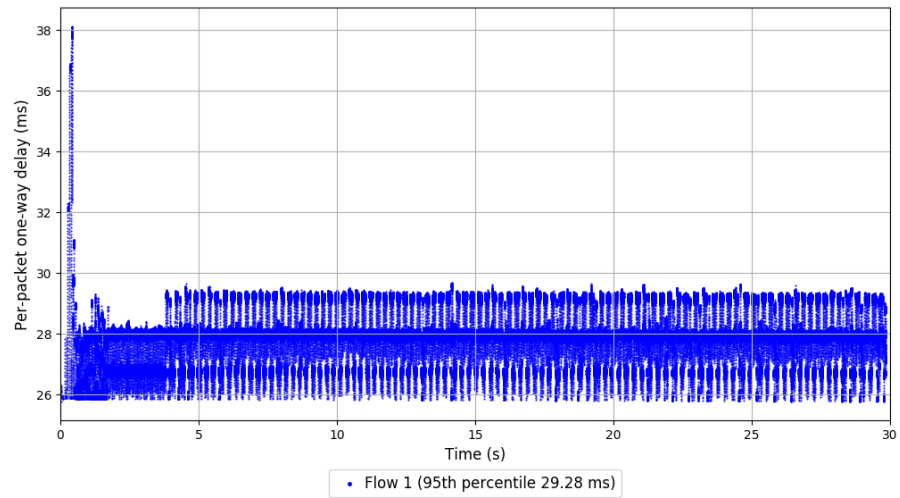
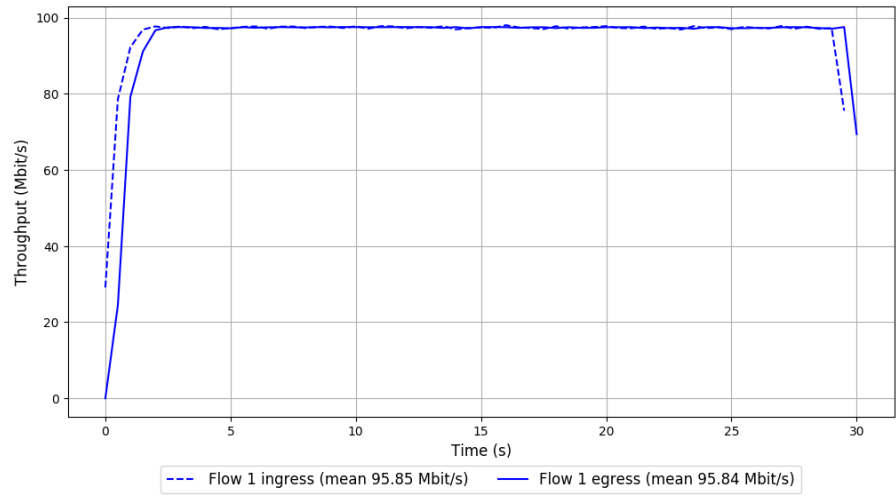
-- Flow 1:

Average throughput: 95.84 Mbit/s

95th percentile per-packet one-way delay: 29.278 ms

Loss rate: 0.20%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-05-22 11:37:08

End at: 2018-05-22 11:37:38

Local clock offset: 2.411 ms

Remote clock offset: 3.104 ms

Below is generated by plot.py at 2018-05-22 13:30:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.53 Mbit/s

95th percentile per-packet one-way delay: 29.567 ms

Loss rate: 0.20%

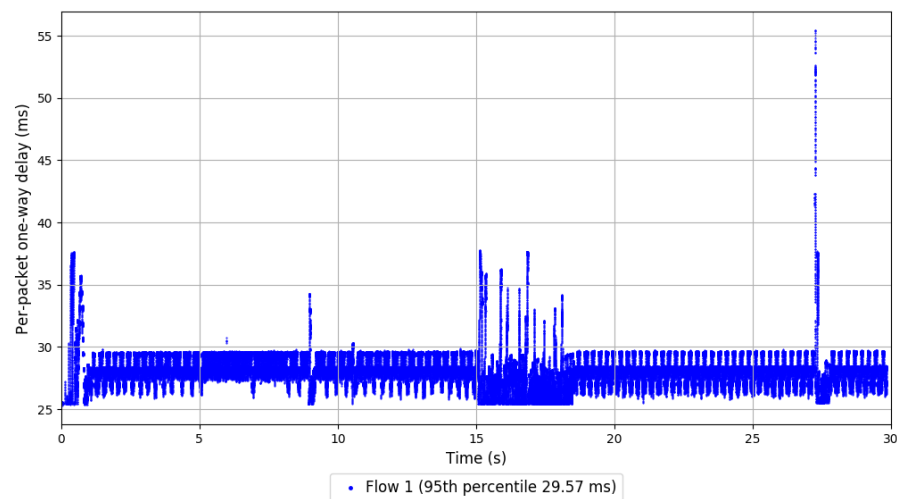
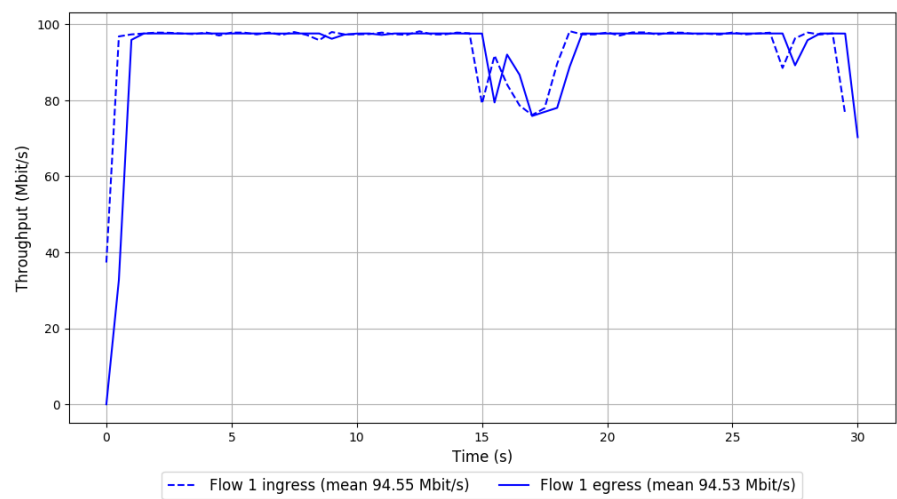
-- Flow 1:

Average throughput: 94.53 Mbit/s

95th percentile per-packet one-way delay: 29.567 ms

Loss rate: 0.20%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-05-22 11:57:58

End at: 2018-05-22 11:58:28

Local clock offset: 0.085 ms

Remote clock offset: 0.341 ms

Below is generated by plot.py at 2018-05-22 13:31:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.91 Mbit/s

95th percentile per-packet one-way delay: 38.508 ms

Loss rate: 0.21%

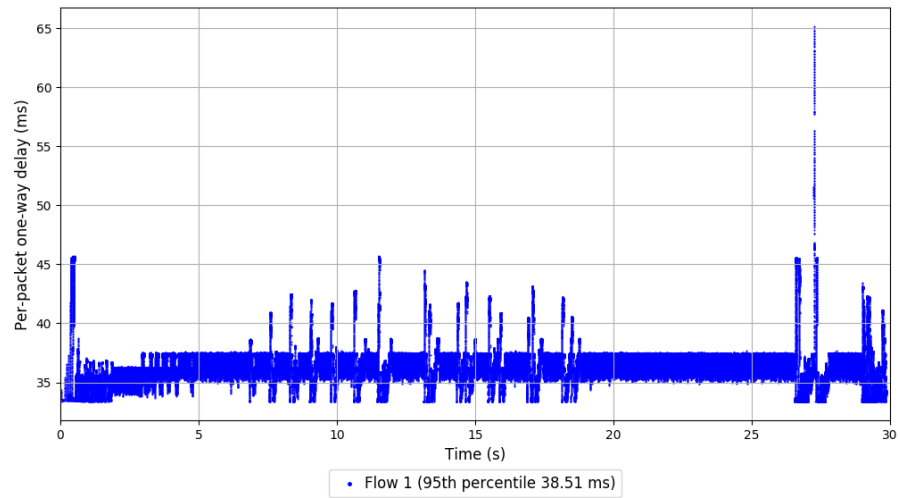
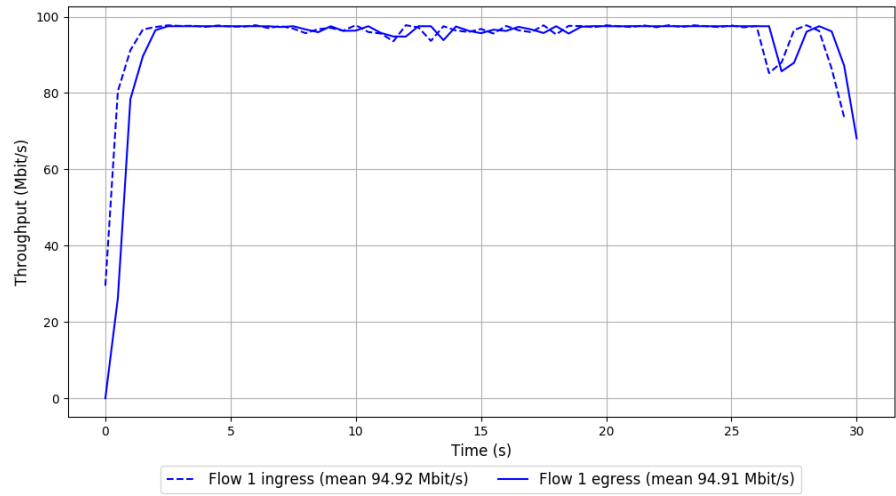
-- Flow 1:

Average throughput: 94.91 Mbit/s

95th percentile per-packet one-way delay: 38.508 ms

Loss rate: 0.21%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-05-22 12:19:56

End at: 2018-05-22 12:20:26

Local clock offset: 0.404 ms

Remote clock offset: 1.886 ms

Below is generated by plot.py at 2018-05-22 13:31:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.52 Mbit/s

95th percentile per-packet one-way delay: 28.783 ms

Loss rate: 0.19%

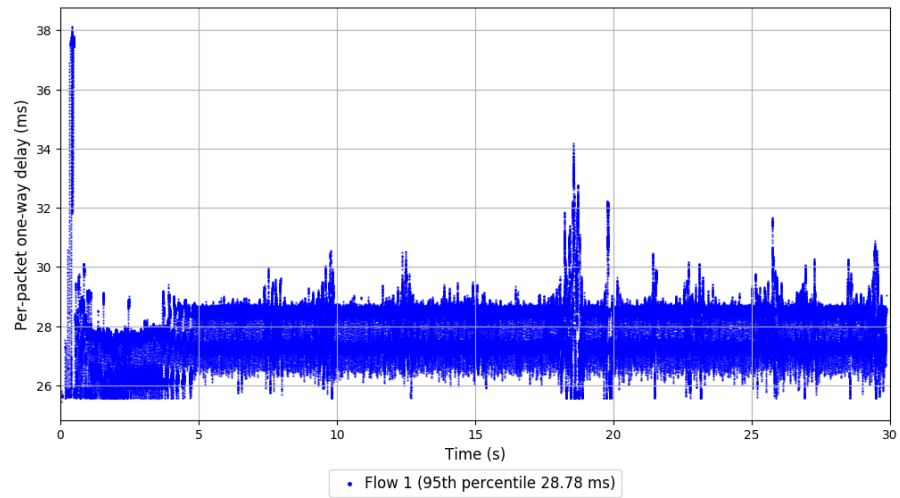
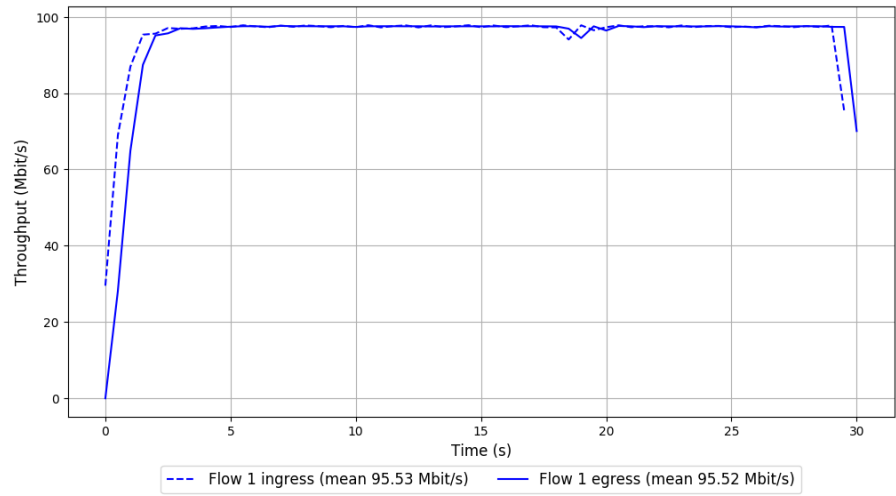
-- Flow 1:

Average throughput: 95.52 Mbit/s

95th percentile per-packet one-way delay: 28.783 ms

Loss rate: 0.19%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-05-22 12:41:07

End at: 2018-05-22 12:41:37

Local clock offset: 0.645 ms

Remote clock offset: 1.133 ms

Below is generated by plot.py at 2018-05-22 13:31:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.79 Mbit/s

95th percentile per-packet one-way delay: 36.843 ms

Loss rate: 0.22%

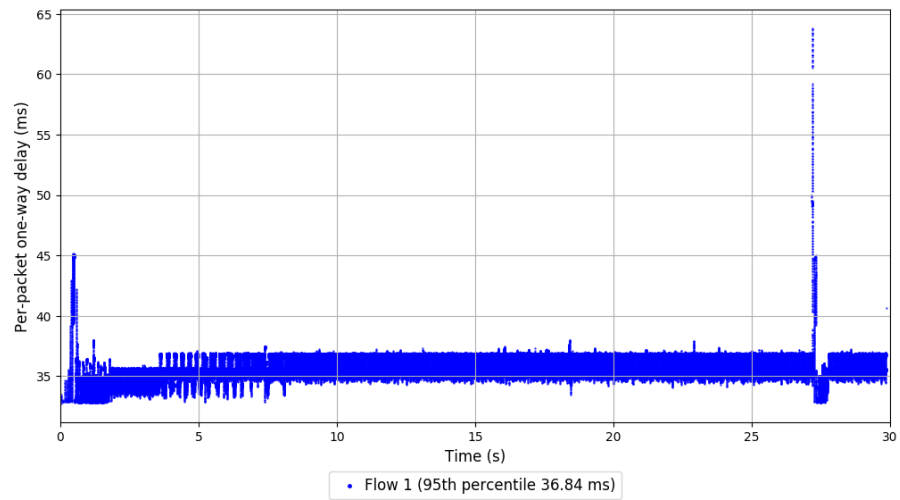
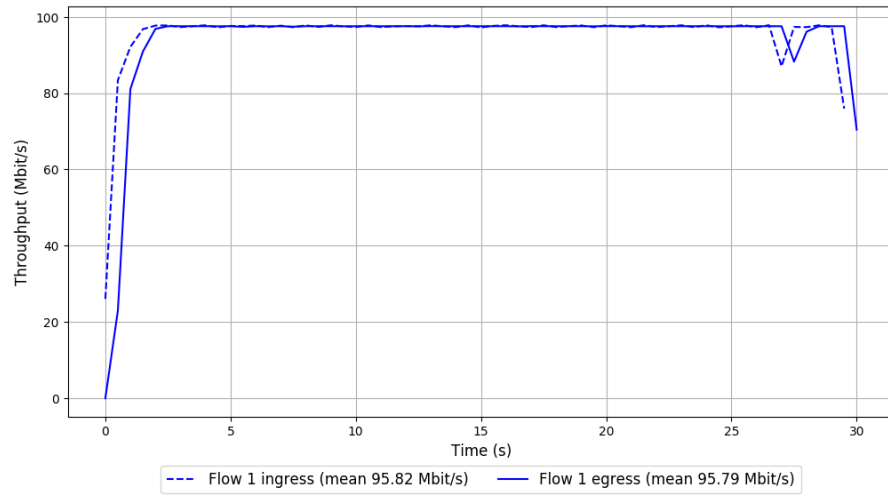
-- Flow 1:

Average throughput: 95.79 Mbit/s

95th percentile per-packet one-way delay: 36.843 ms

Loss rate: 0.22%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-22 13:02:28

End at: 2018-05-22 13:02:58

Local clock offset: 0.751 ms

Remote clock offset: 0.682 ms

Below is generated by plot.py at 2018-05-22 13:31:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.64 Mbit/s

95th percentile per-packet one-way delay: 38.051 ms

Loss rate: 0.22%

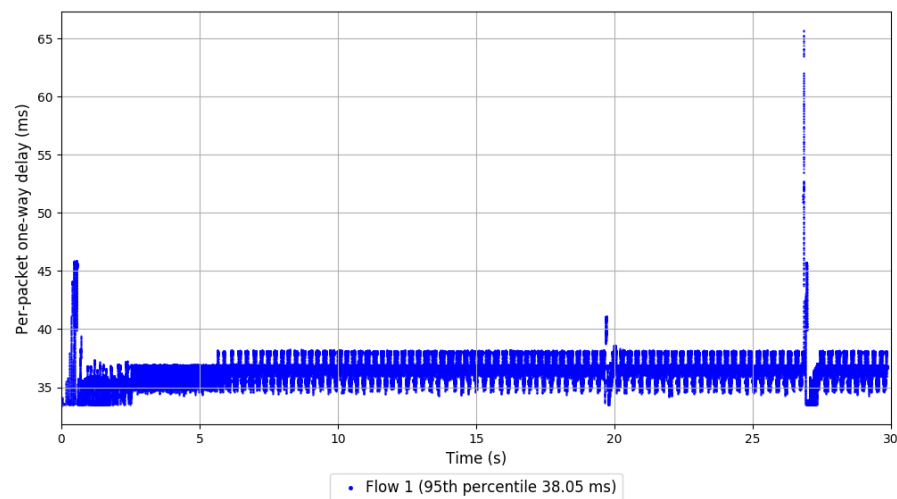
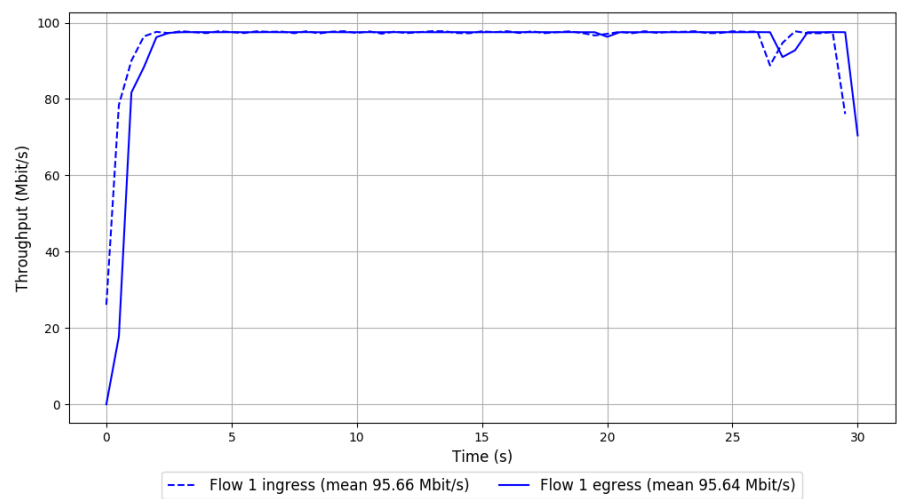
-- Flow 1:

Average throughput: 95.64 Mbit/s

95th percentile per-packet one-way delay: 38.051 ms

Loss rate: 0.22%

Run 10: Report of Indigo — Data Link

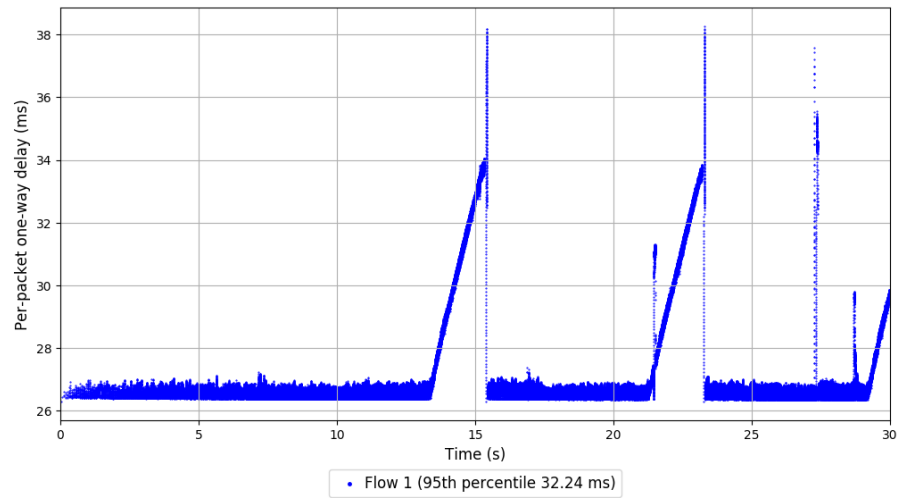
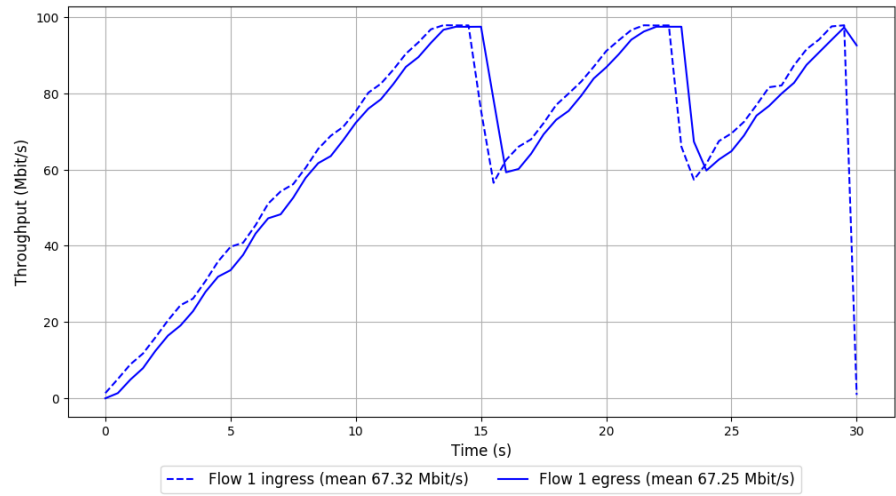


```
Run 1: Statistics of LEDBAT

Start at: 2018-05-22 10:07:40
End at: 2018-05-22 10:08:10
Local clock offset: 1.243 ms
Remote clock offset: 3.292 ms

# Below is generated by plot.py at 2018-05-22 13:31:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.25 Mbit/s
95th percentile per-packet one-way delay: 32.243 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 67.25 Mbit/s
95th percentile per-packet one-way delay: 32.243 ms
Loss rate: 0.29%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-05-22 10:28:25

End at: 2018-05-22 10:28:55

Local clock offset: 1.38 ms

Remote clock offset: 3.432 ms

Below is generated by plot.py at 2018-05-22 13:31:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.66 Mbit/s

95th percentile per-packet one-way delay: 36.237 ms

Loss rate: 0.25%

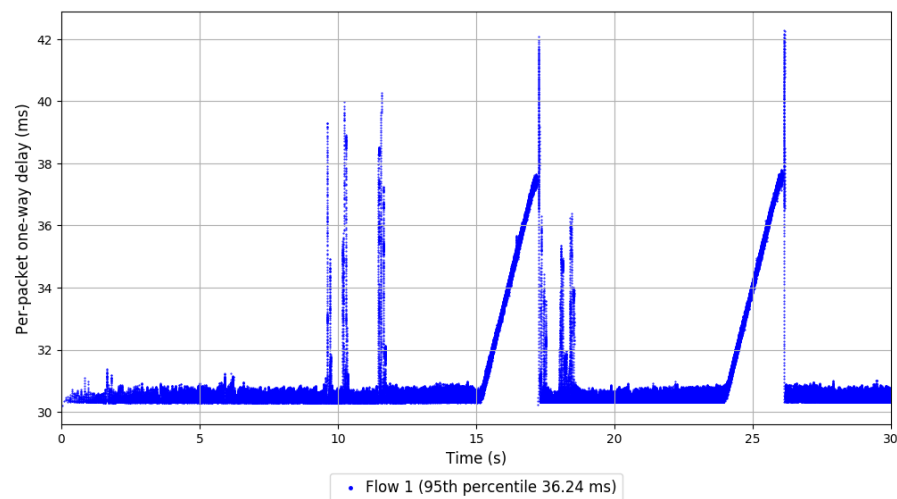
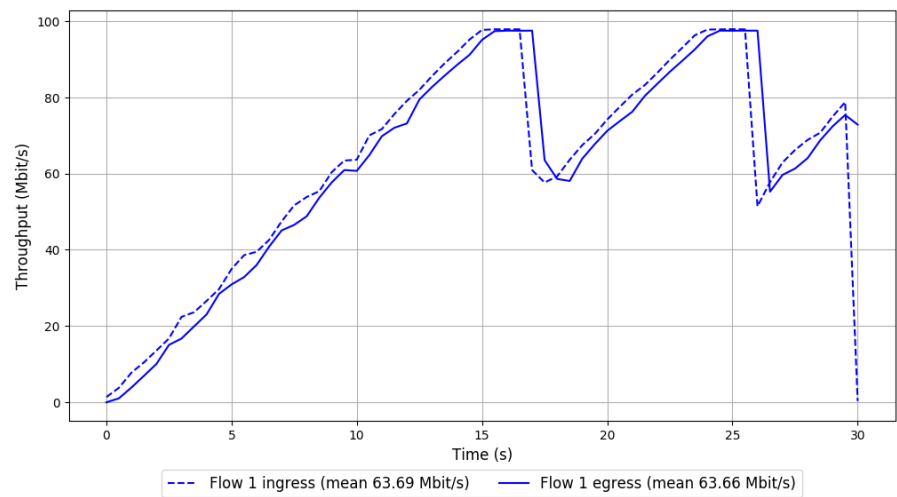
-- Flow 1:

Average throughput: 63.66 Mbit/s

95th percentile per-packet one-way delay: 36.237 ms

Loss rate: 0.25%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-05-22 10:49:10

End at: 2018-05-22 10:49:40

Local clock offset: 0.724 ms

Remote clock offset: 3.188 ms

Below is generated by plot.py at 2018-05-22 13:31:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.71 Mbit/s

95th percentile per-packet one-way delay: 36.498 ms

Loss rate: 0.24%

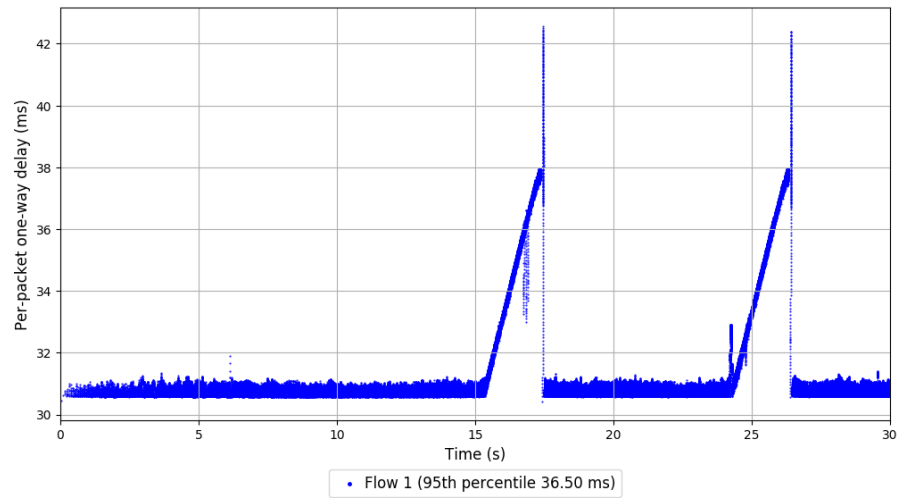
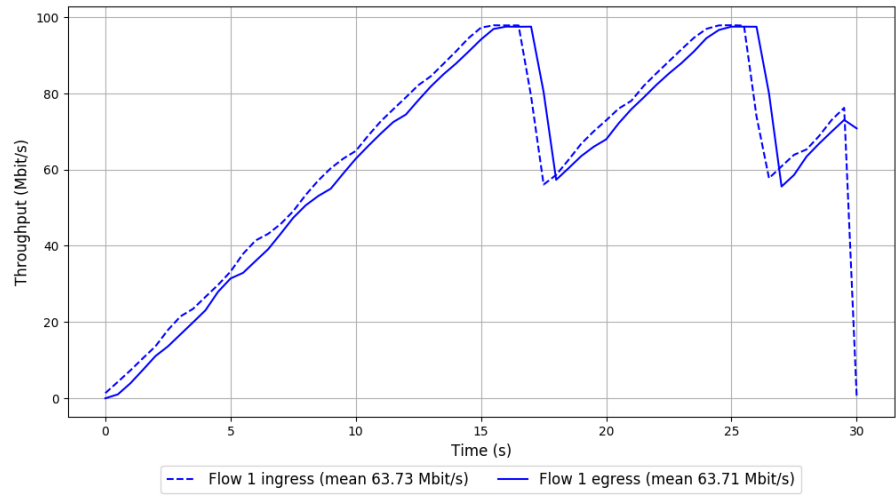
-- Flow 1:

Average throughput: 63.71 Mbit/s

95th percentile per-packet one-way delay: 36.498 ms

Loss rate: 0.24%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-05-22 11:09:57

End at: 2018-05-22 11:10:27

Local clock offset: 5.631 ms

Remote clock offset: 1.364 ms

Below is generated by plot.py at 2018-05-22 13:31:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.12 Mbit/s

95th percentile per-packet one-way delay: 33.565 ms

Loss rate: 0.30%

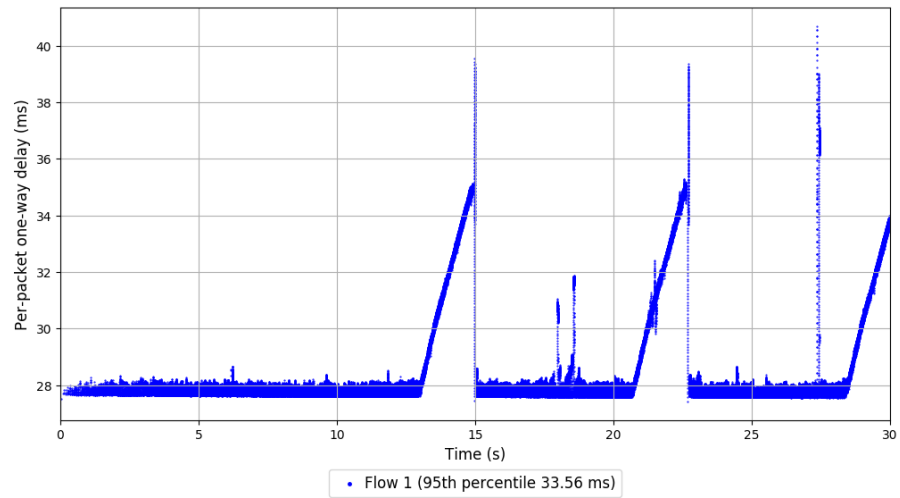
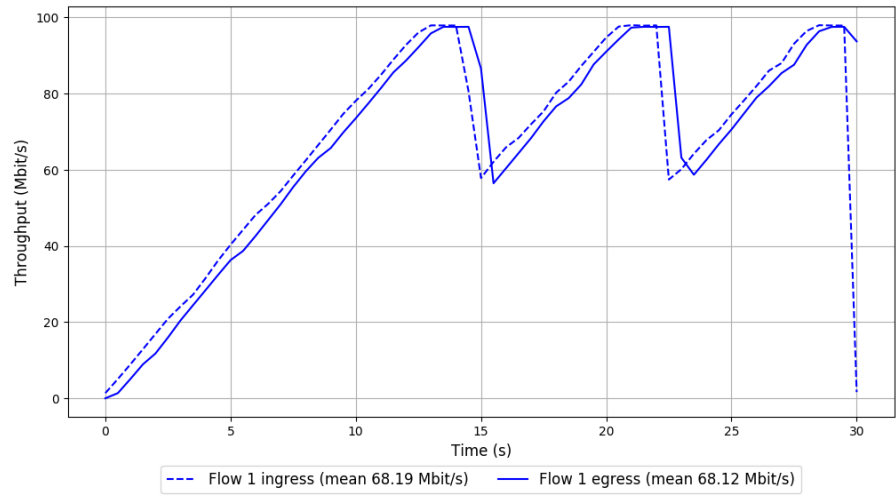
-- Flow 1:

Average throughput: 68.12 Mbit/s

95th percentile per-packet one-way delay: 33.565 ms

Loss rate: 0.30%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-05-22 11:30:42

End at: 2018-05-22 11:31:12

Local clock offset: 4.856 ms

Remote clock offset: 0.645 ms

Below is generated by plot.py at 2018-05-22 13:31:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.00 Mbit/s

95th percentile per-packet one-way delay: 34.095 ms

Loss rate: 0.29%

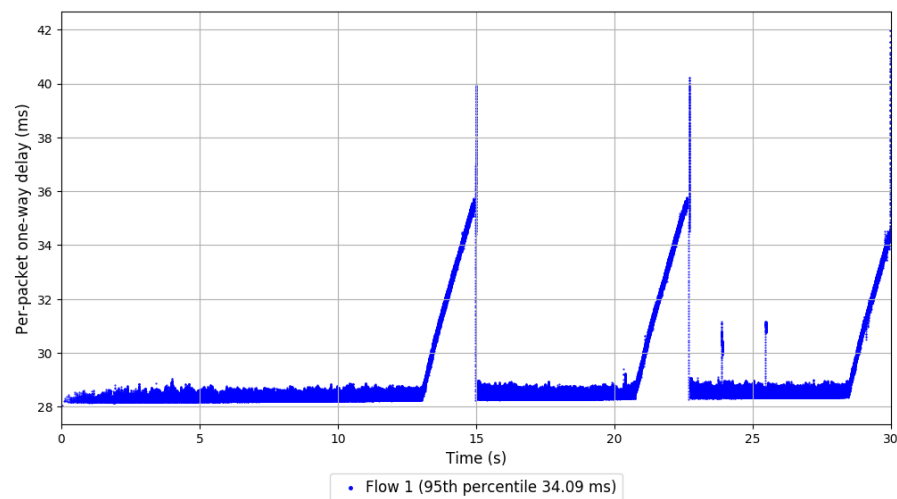
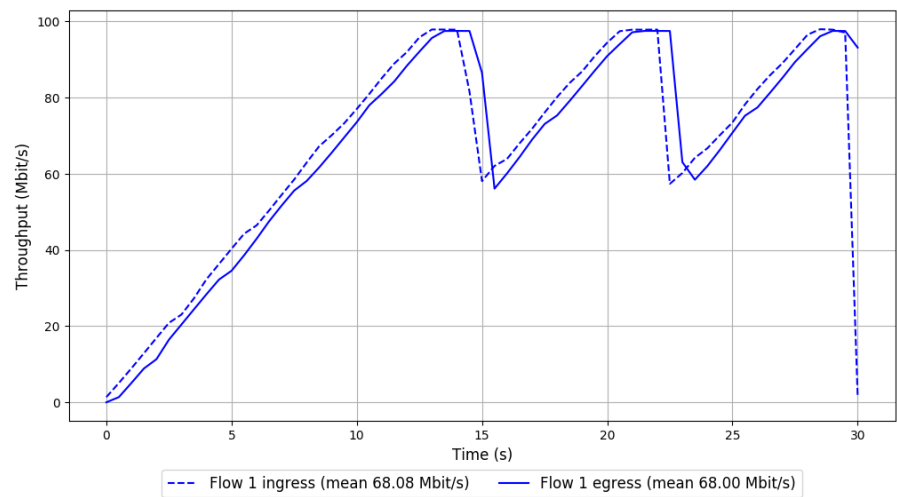
-- Flow 1:

Average throughput: 68.00 Mbit/s

95th percentile per-packet one-way delay: 34.095 ms

Loss rate: 0.29%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-05-22 11:51:32

End at: 2018-05-22 11:52:02

Local clock offset: 0.408 ms

Remote clock offset: 2.439 ms

Below is generated by plot.py at 2018-05-22 13:31:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.13 Mbit/s

95th percentile per-packet one-way delay: 32.497 ms

Loss rate: 0.30%

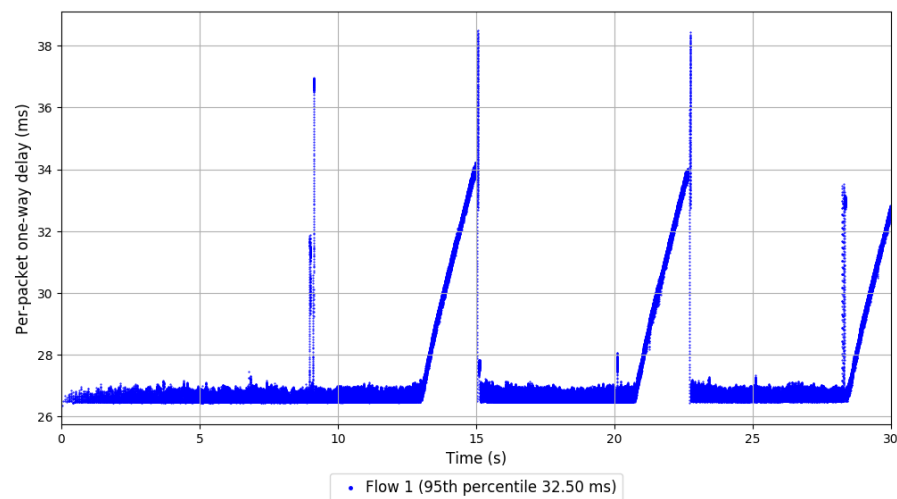
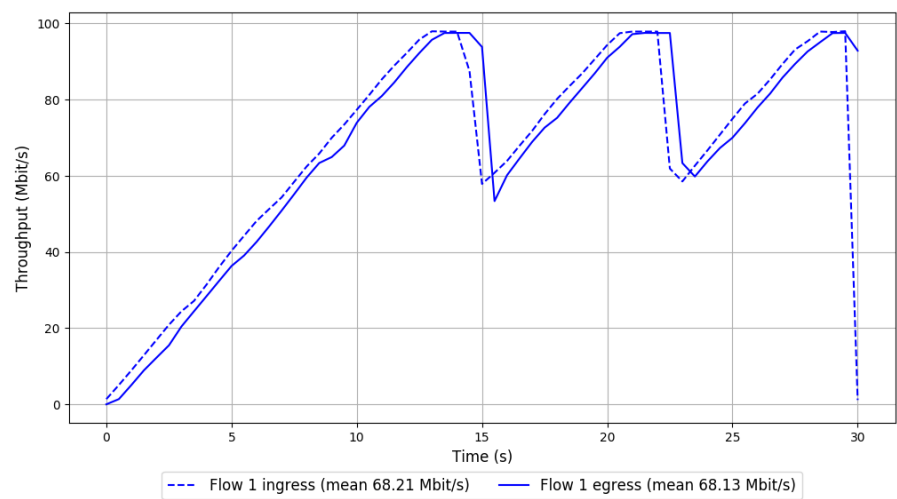
-- Flow 1:

Average throughput: 68.13 Mbit/s

95th percentile per-packet one-way delay: 32.497 ms

Loss rate: 0.30%

Run 6: Report of LEDBAT — Data Link

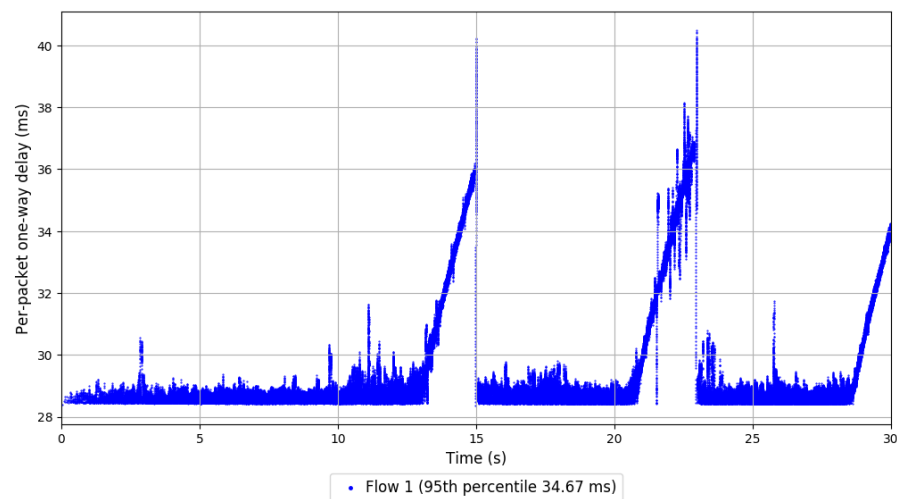
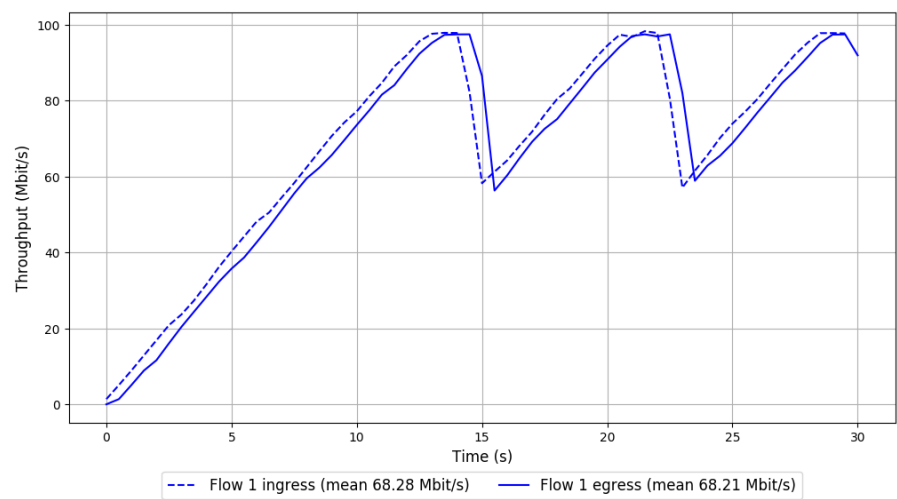


Run 7: Statistics of LEDBAT

Start at: 2018-05-22 12:12:51
End at: 2018-05-22 12:13:21
Local clock offset: 0.429 ms
Remote clock offset: -0.058 ms

Below is generated by plot.py at 2018-05-22 13:31:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 68.21 Mbit/s
95th percentile per-packet one-way delay: 34.673 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 68.21 Mbit/s
95th percentile per-packet one-way delay: 34.673 ms
Loss rate: 0.30%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-05-22 12:34:40

End at: 2018-05-22 12:35:10

Local clock offset: 0.595 ms

Remote clock offset: 0.956 ms

Below is generated by plot.py at 2018-05-22 13:31:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.03 Mbit/s

95th percentile per-packet one-way delay: 33.691 ms

Loss rate: 0.30%

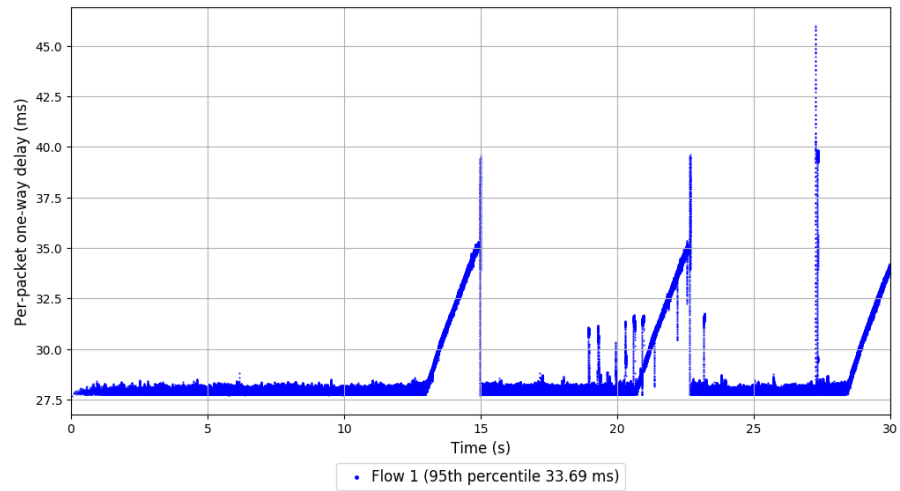
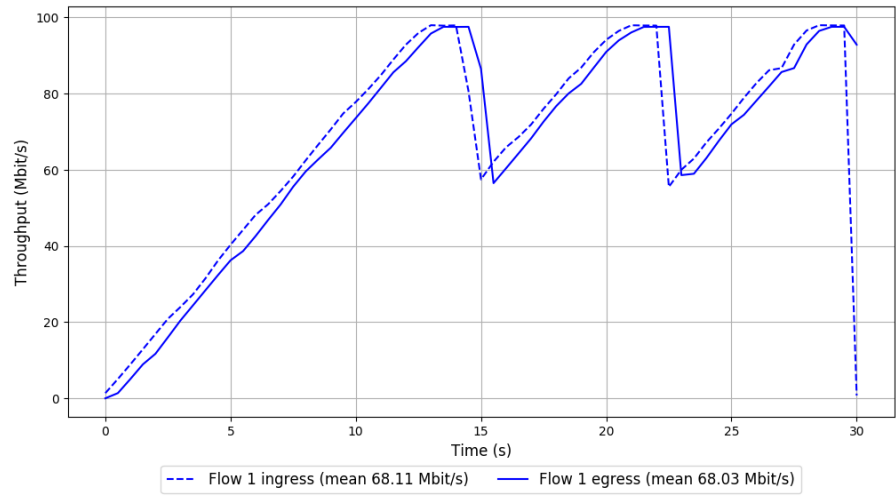
-- Flow 1:

Average throughput: 68.03 Mbit/s

95th percentile per-packet one-way delay: 33.691 ms

Loss rate: 0.30%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-05-22 12:55:53

End at: 2018-05-22 12:56:23

Local clock offset: 0.471 ms

Remote clock offset: 1.099 ms

Below is generated by plot.py at 2018-05-22 13:31:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.01 Mbit/s

95th percentile per-packet one-way delay: 33.651 ms

Loss rate: 0.29%

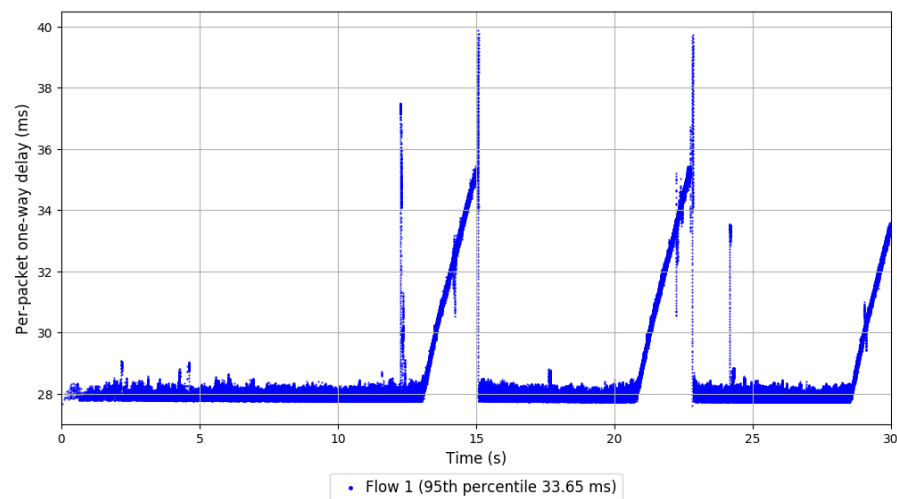
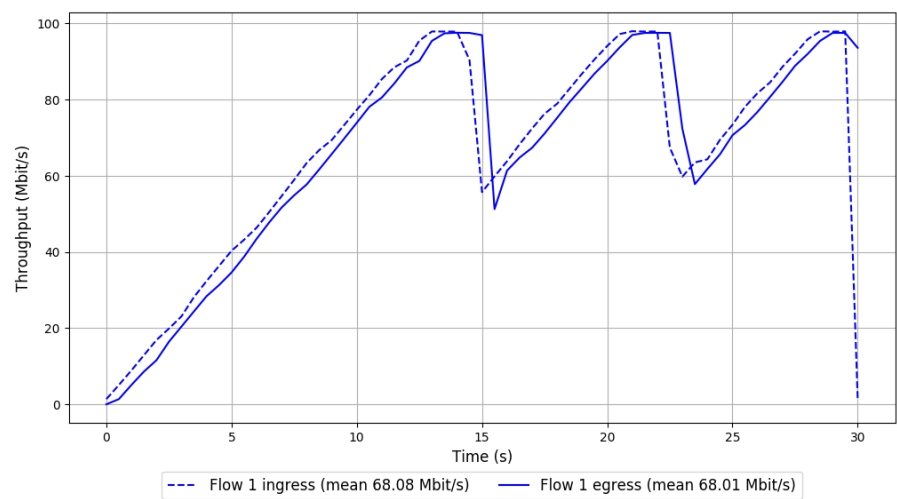
-- Flow 1:

Average throughput: 68.01 Mbit/s

95th percentile per-packet one-way delay: 33.651 ms

Loss rate: 0.29%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-05-22 13:16:48

End at: 2018-05-22 13:17:18

Local clock offset: 0.94 ms

Remote clock offset: 2.269 ms

Below is generated by plot.py at 2018-05-22 13:31:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.51 Mbit/s

95th percentile per-packet one-way delay: 32.429 ms

Loss rate: 0.15%

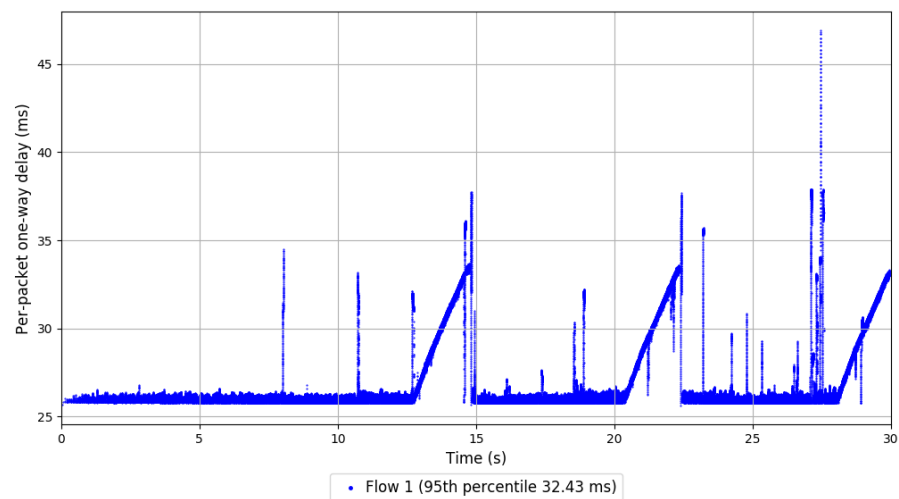
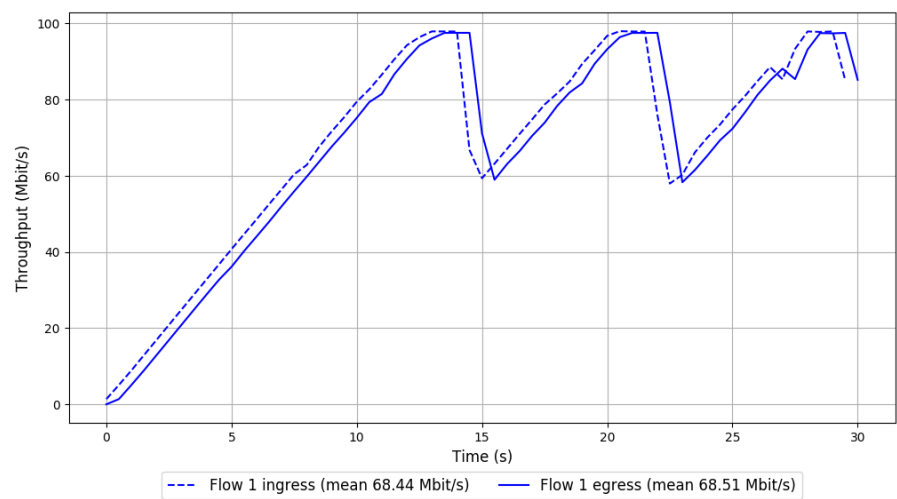
-- Flow 1:

Average throughput: 68.51 Mbit/s

95th percentile per-packet one-way delay: 32.429 ms

Loss rate: 0.15%

Run 10: Report of LEDBAT — Data Link

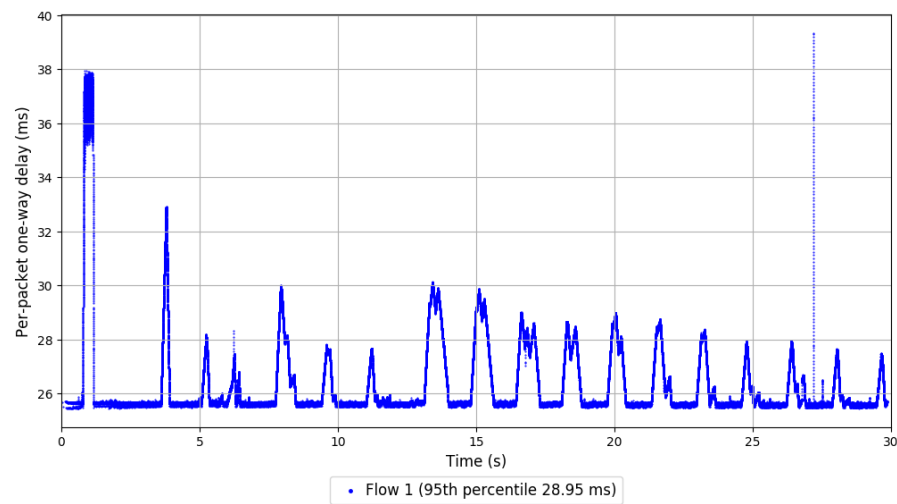
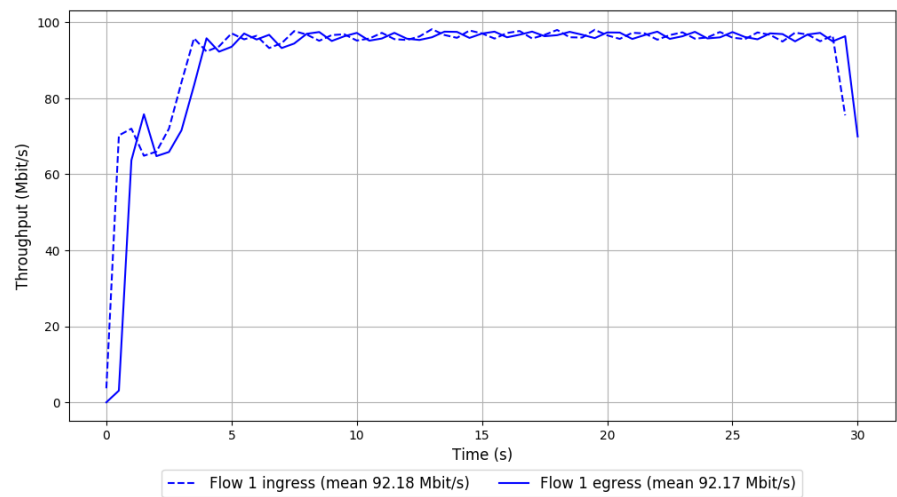


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-05-22 10:05:03
End at: 2018-05-22 10:05:33
Local clock offset: 1.106 ms
Remote clock offset: 3.494 ms

# Below is generated by plot.py at 2018-05-22 13:32:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.17 Mbit/s
95th percentile per-packet one-way delay: 28.948 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 92.17 Mbit/s
95th percentile per-packet one-way delay: 28.948 ms
Loss rate: 0.19%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-22 10:25:48

End at: 2018-05-22 10:26:18

Local clock offset: 1.608 ms

Remote clock offset: 0.795 ms

Below is generated by plot.py at 2018-05-22 13:32:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.14 Mbit/s

95th percentile per-packet one-way delay: 43.627 ms

Loss rate: 0.26%

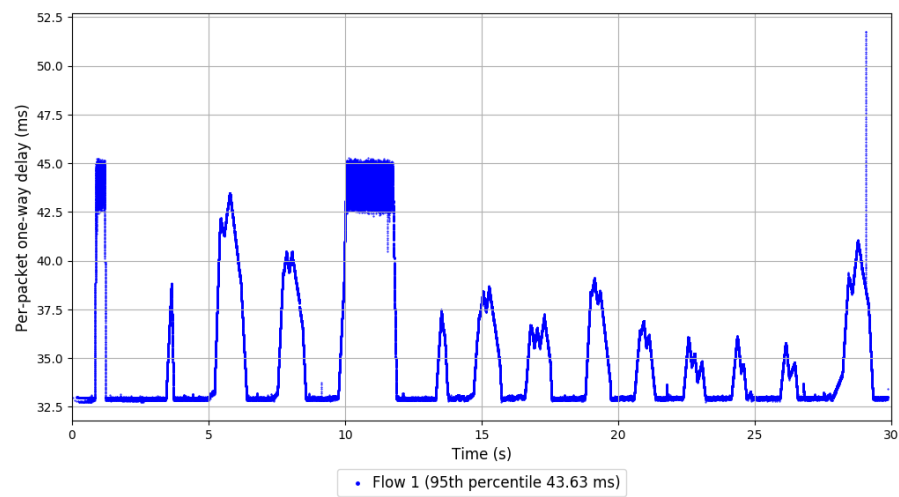
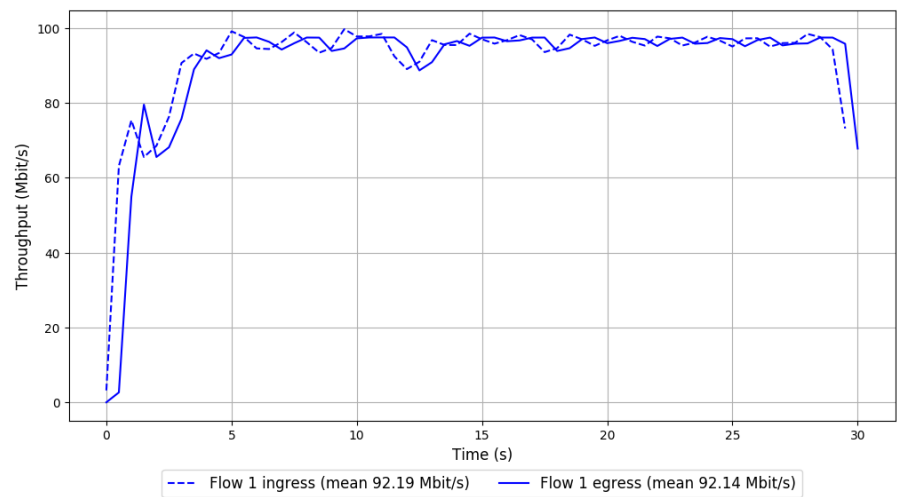
-- Flow 1:

Average throughput: 92.14 Mbit/s

95th percentile per-packet one-way delay: 43.627 ms

Loss rate: 0.26%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-22 10:46:33

End at: 2018-05-22 10:47:03

Local clock offset: 0.783 ms

Remote clock offset: 3.647 ms

Below is generated by plot.py at 2018-05-22 13:32:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.99 Mbit/s

95th percentile per-packet one-way delay: 28.814 ms

Loss rate: 0.19%

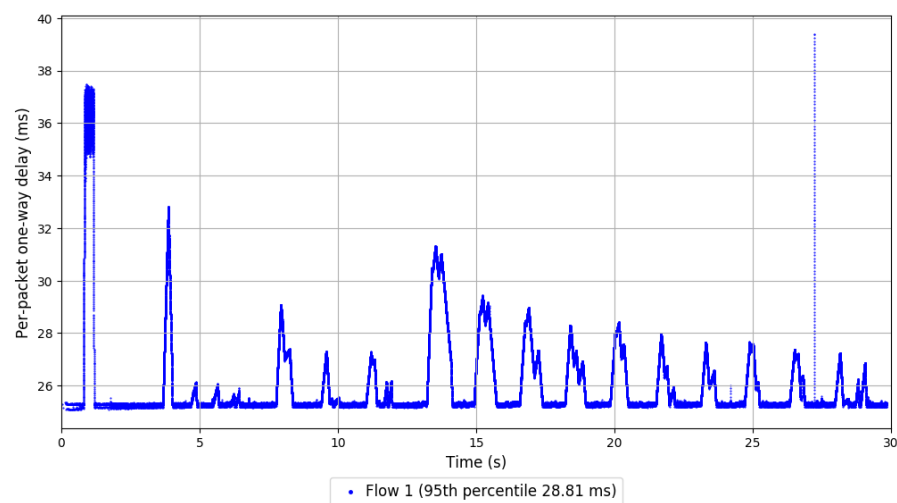
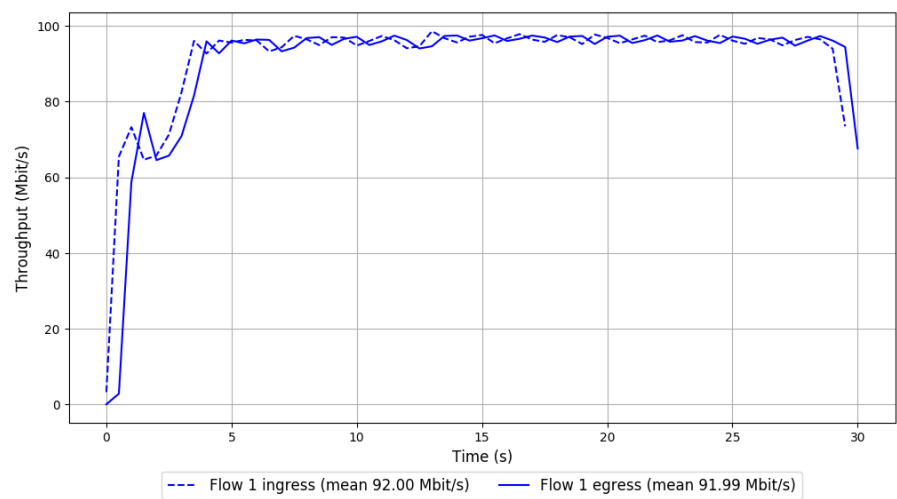
-- Flow 1:

Average throughput: 91.99 Mbit/s

95th percentile per-packet one-way delay: 28.814 ms

Loss rate: 0.19%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-22 11:07:19

End at: 2018-05-22 11:07:49

Local clock offset: 4.953 ms

Remote clock offset: 3.377 ms

Below is generated by plot.py at 2018-05-22 13:32:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.87 Mbit/s

95th percentile per-packet one-way delay: 36.224 ms

Loss rate: 0.21%

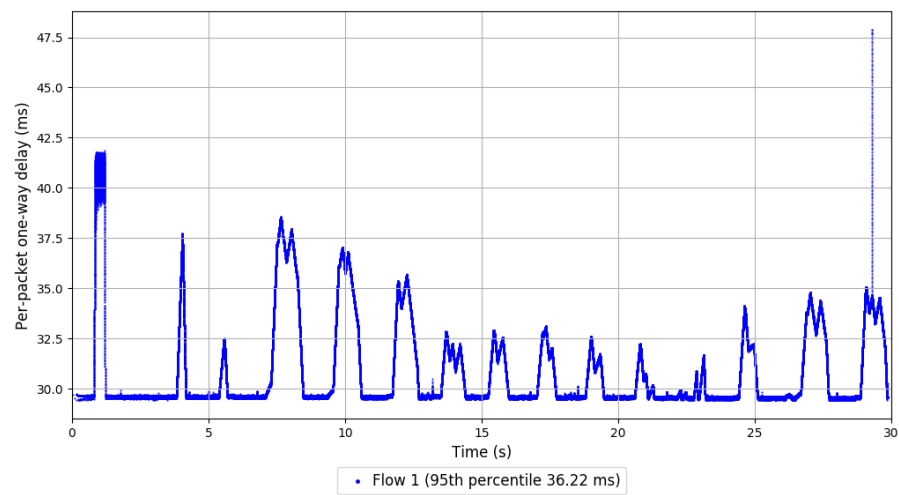
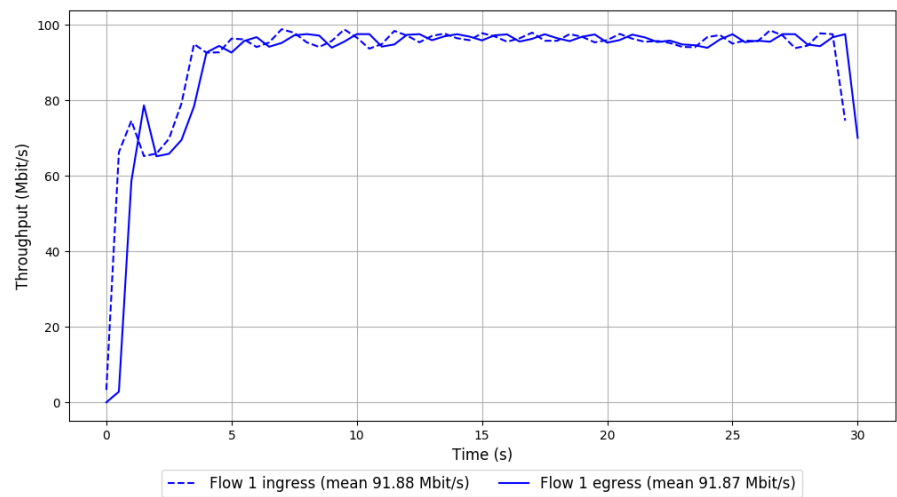
-- Flow 1:

Average throughput: 91.87 Mbit/s

95th percentile per-packet one-way delay: 36.224 ms

Loss rate: 0.21%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-05-22 11:28:05

End at: 2018-05-22 11:28:35

Local clock offset: 6.528 ms

Remote clock offset: 2.792 ms

Below is generated by plot.py at 2018-05-22 13:32:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.86 Mbit/s

95th percentile per-packet one-way delay: 35.370 ms

Loss rate: 0.23%

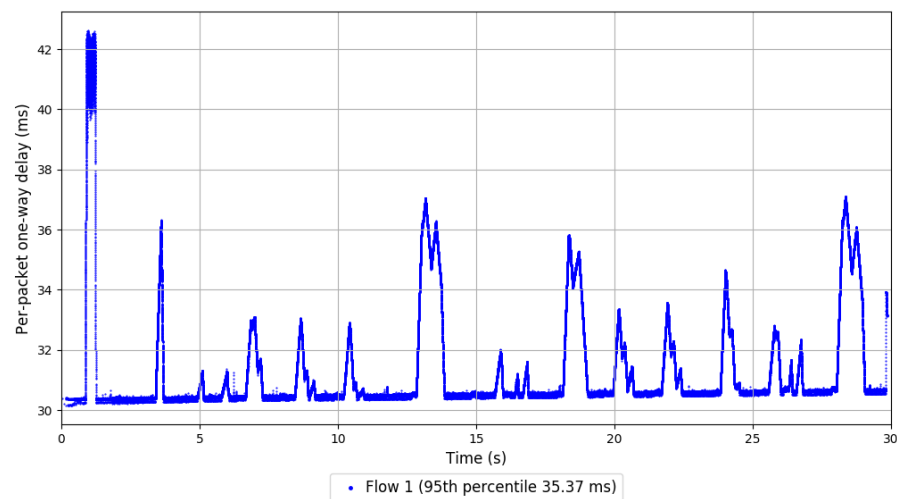
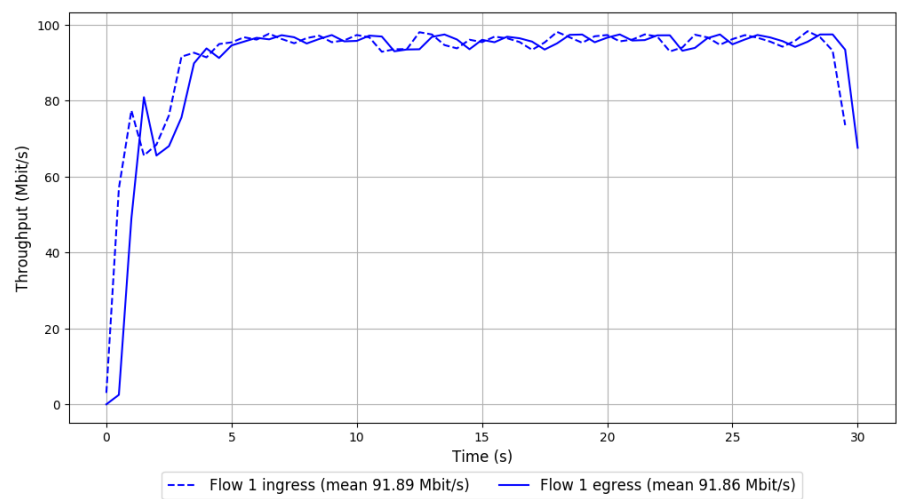
-- Flow 1:

Average throughput: 91.86 Mbit/s

95th percentile per-packet one-way delay: 35.370 ms

Loss rate: 0.23%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-05-22 11:48:54

End at: 2018-05-22 11:49:24

Local clock offset: 0.639 ms

Remote clock offset: 2.404 ms

Below is generated by plot.py at 2018-05-22 13:32:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.54 Mbit/s

95th percentile per-packet one-way delay: 35.872 ms

Loss rate: 0.22%

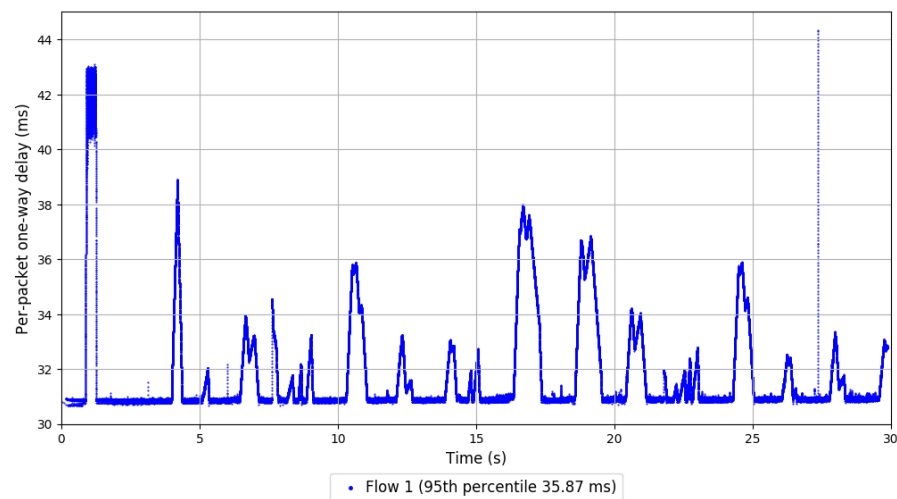
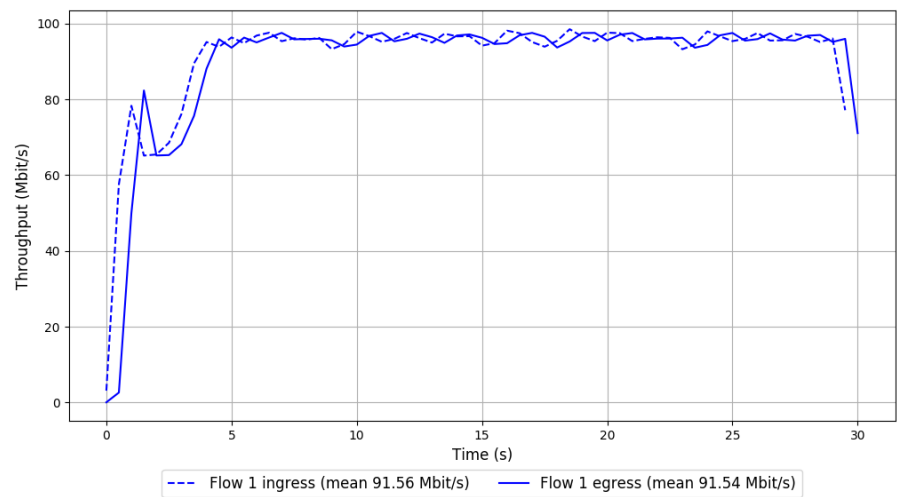
-- Flow 1:

Average throughput: 91.54 Mbit/s

95th percentile per-packet one-way delay: 35.872 ms

Loss rate: 0.22%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-22 12:09:51

End at: 2018-05-22 12:10:21

Local clock offset: 0.435 ms

Remote clock offset: 2.175 ms

Below is generated by plot.py at 2018-05-22 13:32:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.25 Mbit/s

95th percentile per-packet one-way delay: 36.359 ms

Loss rate: 0.22%

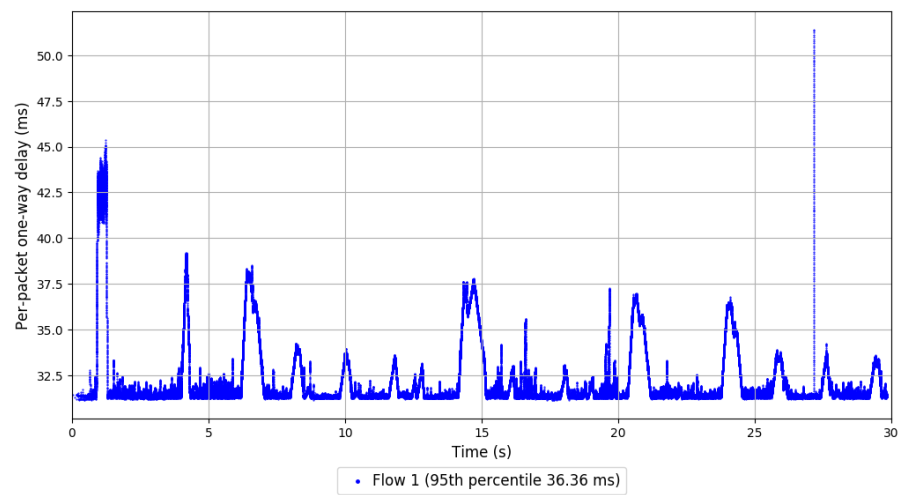
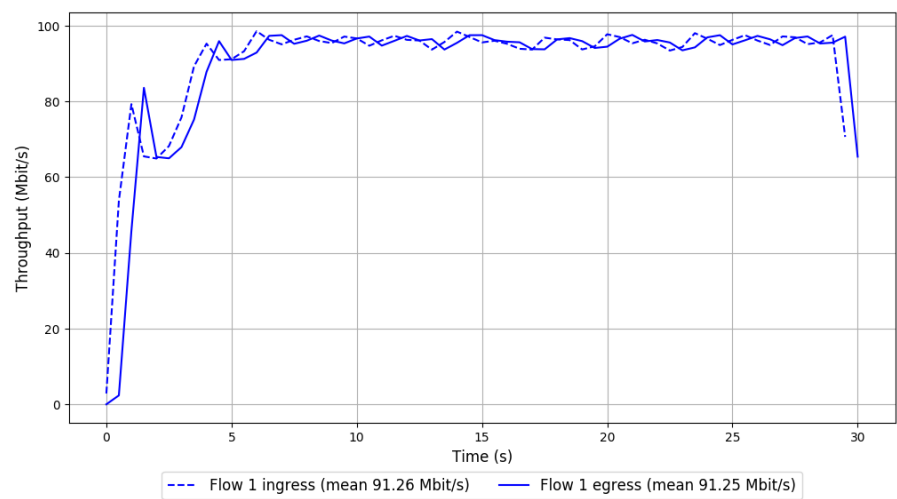
-- Flow 1:

Average throughput: 91.25 Mbit/s

95th percentile per-packet one-way delay: 36.359 ms

Loss rate: 0.22%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-22 12:32:02

End at: 2018-05-22 12:32:32

Local clock offset: 0.547 ms

Remote clock offset: 2.862 ms

Below is generated by plot.py at 2018-05-22 13:32:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.21 Mbit/s

95th percentile per-packet one-way delay: 30.557 ms

Loss rate: 0.19%

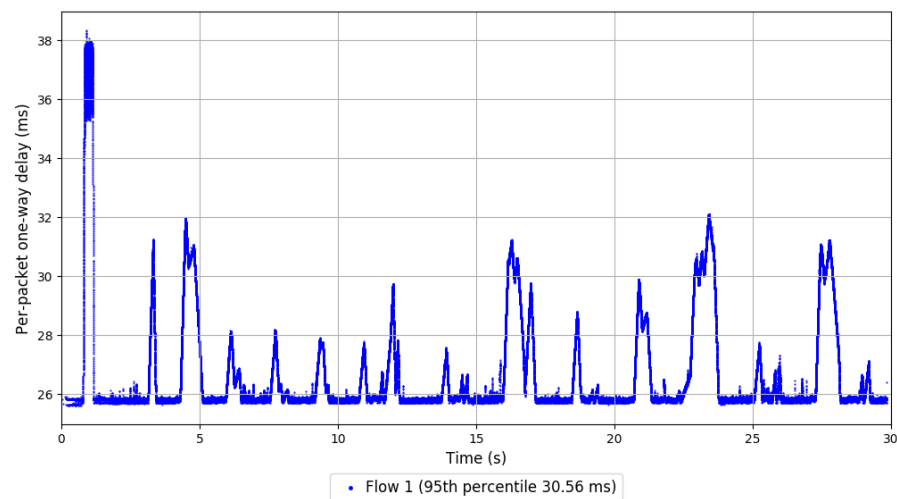
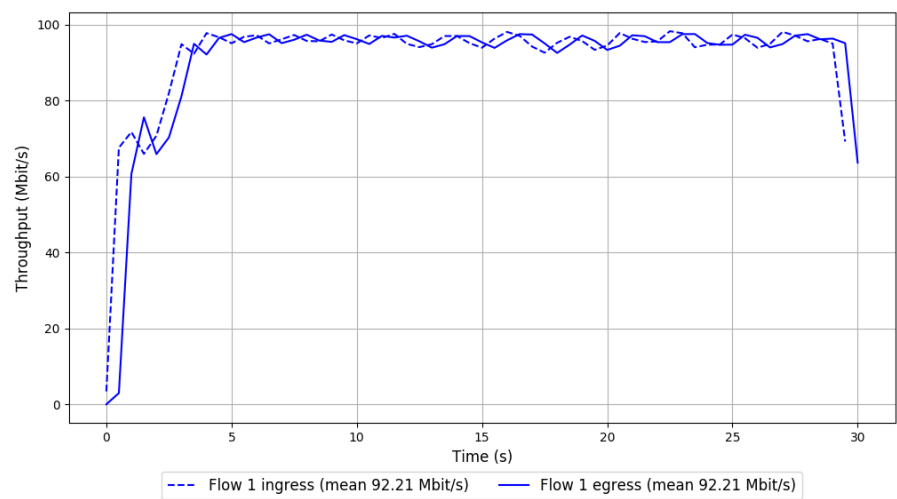
-- Flow 1:

Average throughput: 92.21 Mbit/s

95th percentile per-packet one-way delay: 30.557 ms

Loss rate: 0.19%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-22 12:53:02

End at: 2018-05-22 12:53:32

Local clock offset: 0.599 ms

Remote clock offset: 3.739 ms

Below is generated by plot.py at 2018-05-22 13:33:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.81 Mbit/s

95th percentile per-packet one-way delay: 39.522 ms

Loss rate: 0.22%

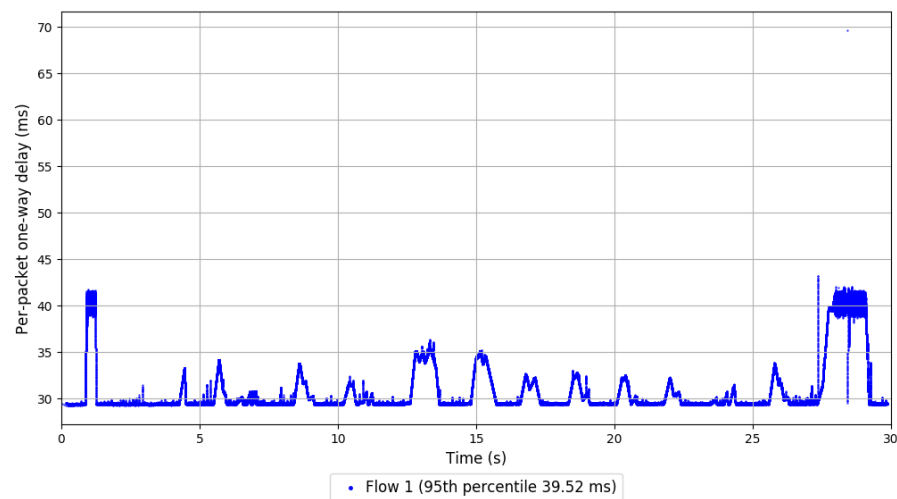
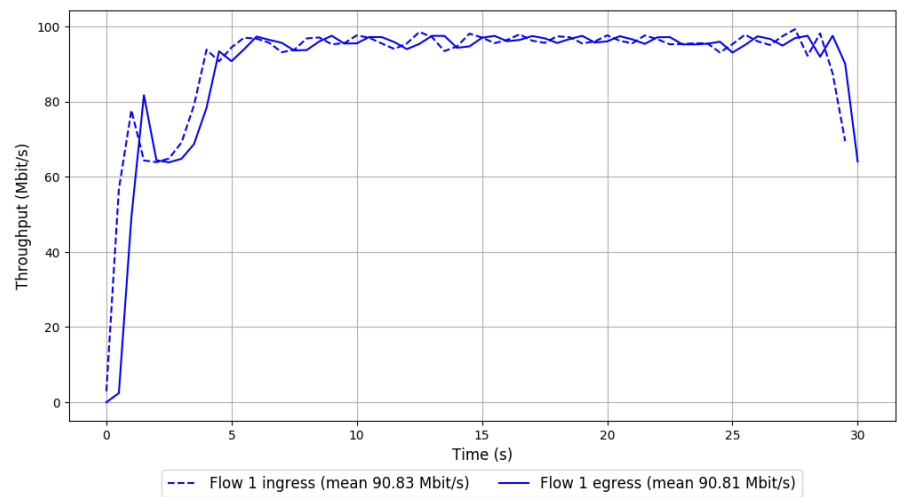
-- Flow 1:

Average throughput: 90.81 Mbit/s

95th percentile per-packet one-way delay: 39.522 ms

Loss rate: 0.22%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-05-22 13:14:11

End at: 2018-05-22 13:14:41

Local clock offset: 0.94 ms

Remote clock offset: 2.764 ms

Below is generated by plot.py at 2018-05-22 13:33:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.04 Mbit/s

95th percentile per-packet one-way delay: 34.924 ms

Loss rate: 0.21%

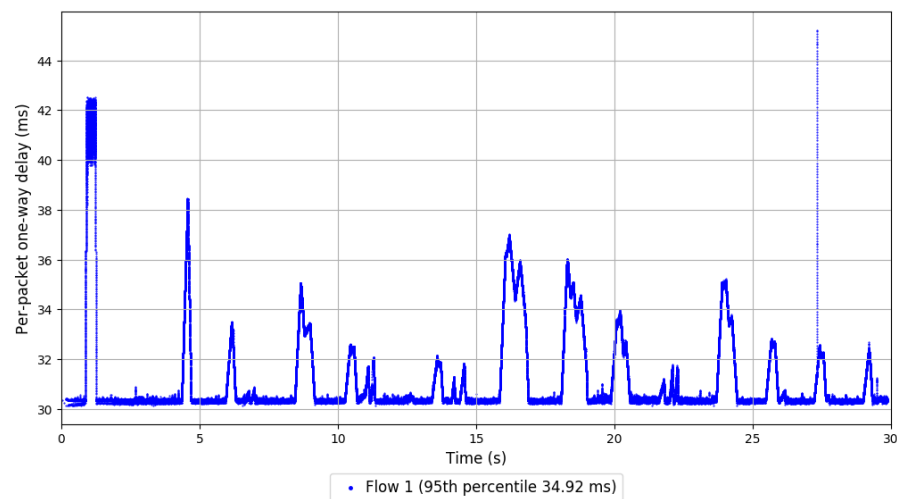
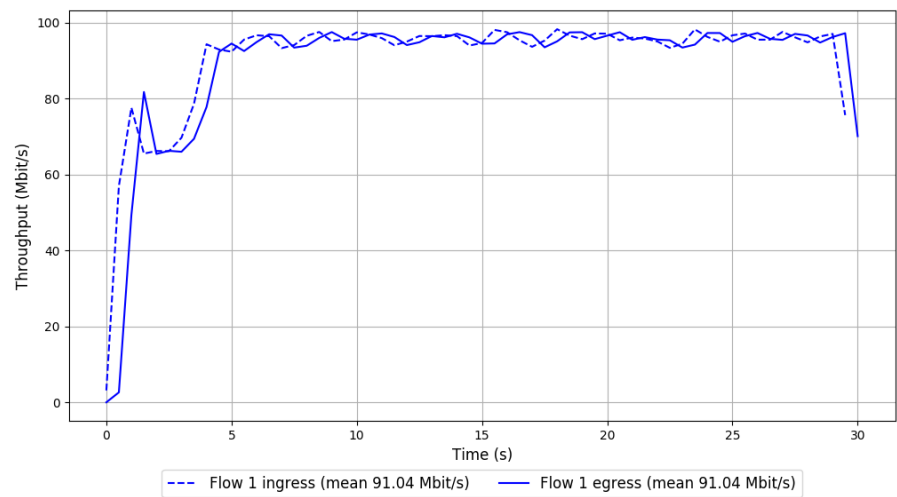
-- Flow 1:

Average throughput: 91.04 Mbit/s

95th percentile per-packet one-way delay: 34.924 ms

Loss rate: 0.21%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-05-22 09:55:59

End at: 2018-05-22 09:56:29

Local clock offset: 0.401 ms

Remote clock offset: 3.37 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-05-22 10:16:43

End at: 2018-05-22 10:17:13

Local clock offset: 1.525 ms

Remote clock offset: 0.934 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-05-22 10:37:28

End at: 2018-05-22 10:37:58

Local clock offset: 1.018 ms

Remote clock offset: 1.016 ms

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-05-22 10:58:14

End at: 2018-05-22 10:58:44

Local clock offset: 1.466 ms

Remote clock offset: 1.246 ms

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-05-22 11:19:00

End at: 2018-05-22 11:19:30

Local clock offset: 6.879 ms

Remote clock offset: 3.065 ms

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-05-22 11:39:46

End at: 2018-05-22 11:40:16

Local clock offset: 1.803 ms

Remote clock offset: 3.046 ms

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-05-22 12:00:38

End at: 2018-05-22 12:01:08

Local clock offset: 0.328 ms

Remote clock offset: 2.376 ms

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-05-22 12:22:53

End at: 2018-05-22 12:23:23

Local clock offset: 0.27 ms

Remote clock offset: 2.086 ms

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-05-22 12:43:48

End at: 2018-05-22 12:44:18

Local clock offset: 0.659 ms

Remote clock offset: 1.126 ms

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-05-22 13:05:07

End at: 2018-05-22 13:05:37

Local clock offset: 0.743 ms

Remote clock offset: 3.045 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of QUIC Cubic

Start at: 2018-05-22 09:52:03

End at: 2018-05-22 09:52:33

Local clock offset: 0.455 ms

Remote clock offset: 1.301 ms

Below is generated by plot.py at 2018-05-22 13:33:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.82 Mbit/s

95th percentile per-packet one-way delay: 39.873 ms

Loss rate: 0.25%

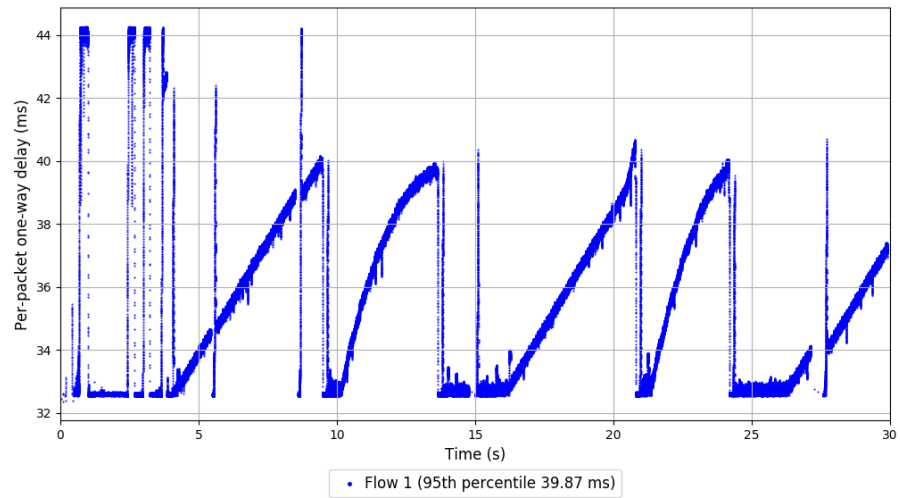
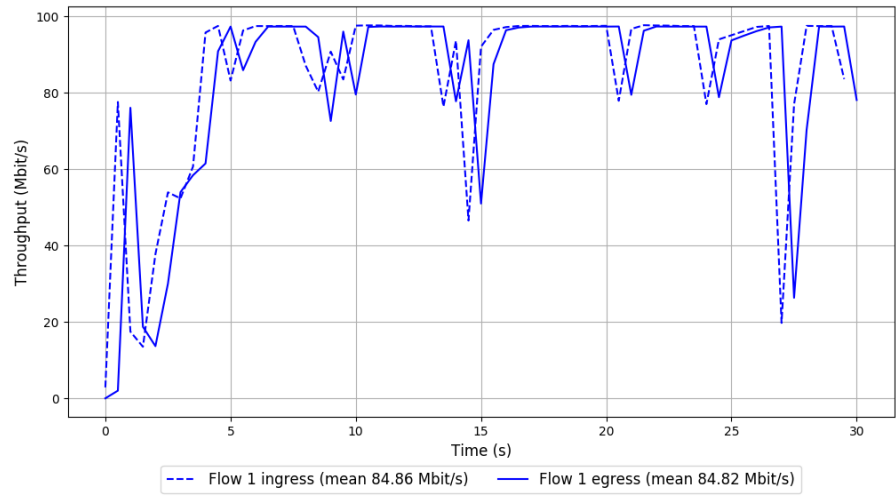
-- Flow 1:

Average throughput: 84.82 Mbit/s

95th percentile per-packet one-way delay: 39.873 ms

Loss rate: 0.25%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-22 10:12:46

End at: 2018-05-22 10:13:16

Local clock offset: 1.471 ms

Remote clock offset: 0.997 ms

Below is generated by plot.py at 2018-05-22 13:33:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.26 Mbit/s

95th percentile per-packet one-way delay: 39.626 ms

Loss rate: 0.23%

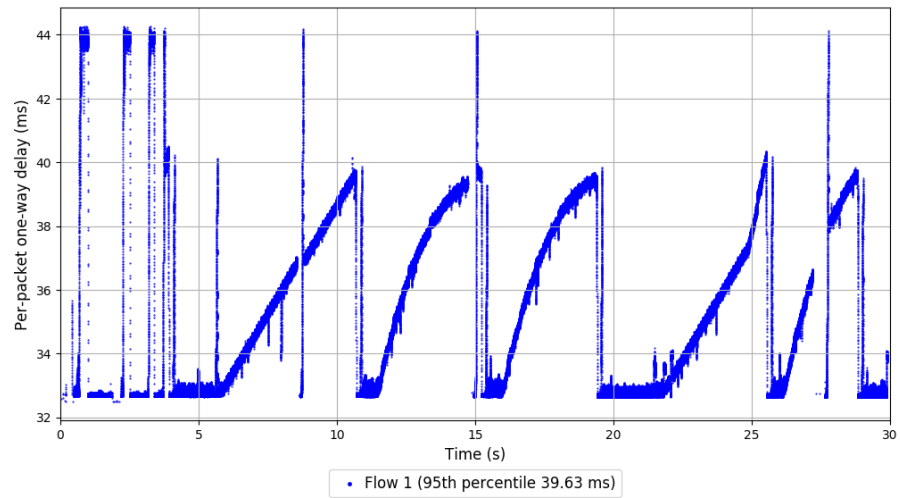
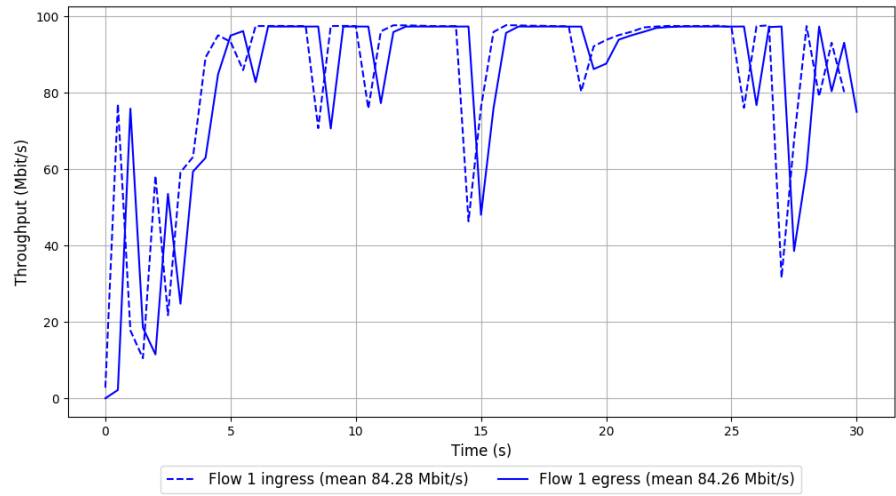
-- Flow 1:

Average throughput: 84.26 Mbit/s

95th percentile per-packet one-way delay: 39.626 ms

Loss rate: 0.23%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-05-22 10:33:31

End at: 2018-05-22 10:34:01

Local clock offset: 1.192 ms

Remote clock offset: 3.609 ms

Below is generated by plot.py at 2018-05-22 13:33:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.94 Mbit/s

95th percentile per-packet one-way delay: 37.075 ms

Loss rate: 0.26%

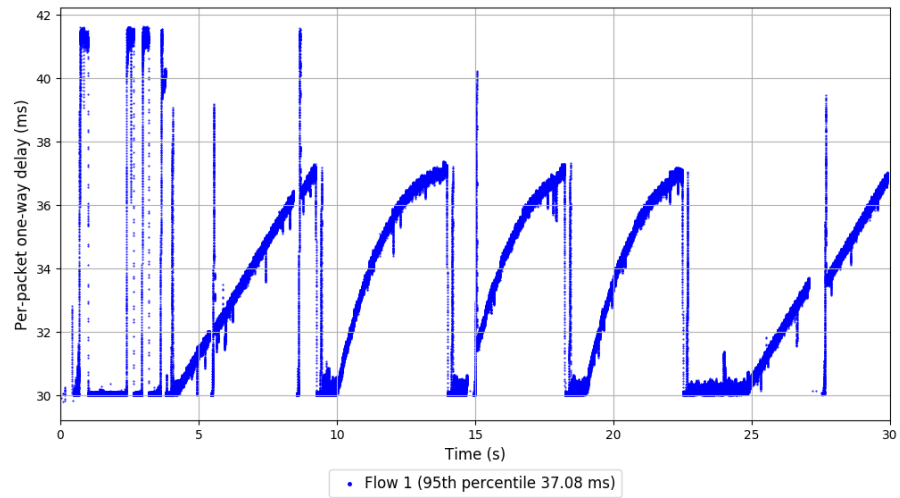
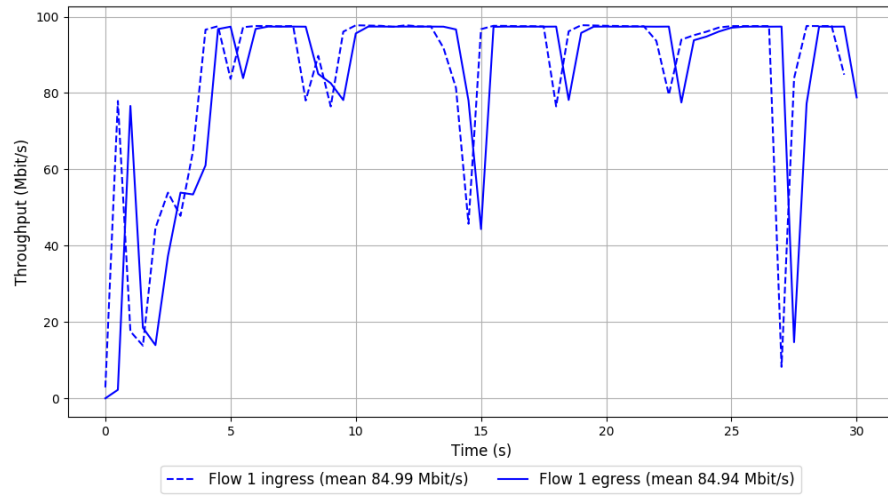
-- Flow 1:

Average throughput: 84.94 Mbit/s

95th percentile per-packet one-way delay: 37.075 ms

Loss rate: 0.26%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-22 10:54:16

End at: 2018-05-22 10:54:46

Local clock offset: 0.631 ms

Remote clock offset: 1.171 ms

Below is generated by plot.py at 2018-05-22 13:33:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.12 Mbit/s

95th percentile per-packet one-way delay: 35.726 ms

Loss rate: 0.24%

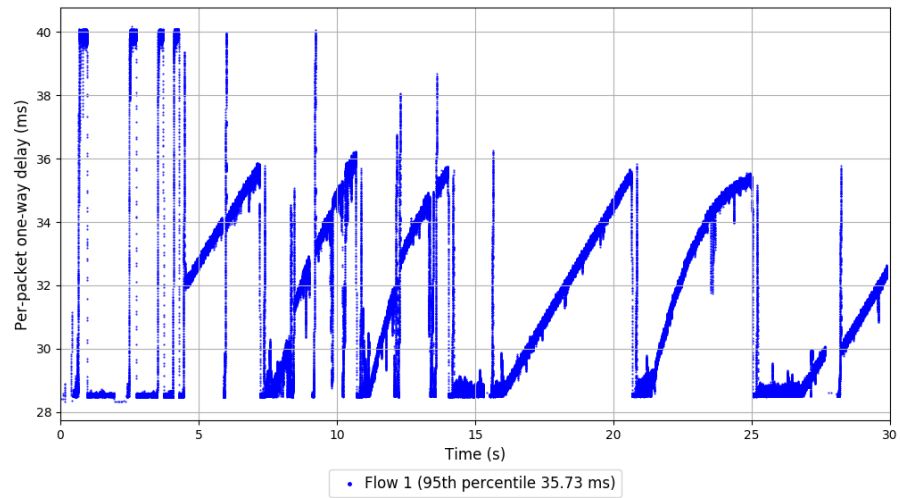
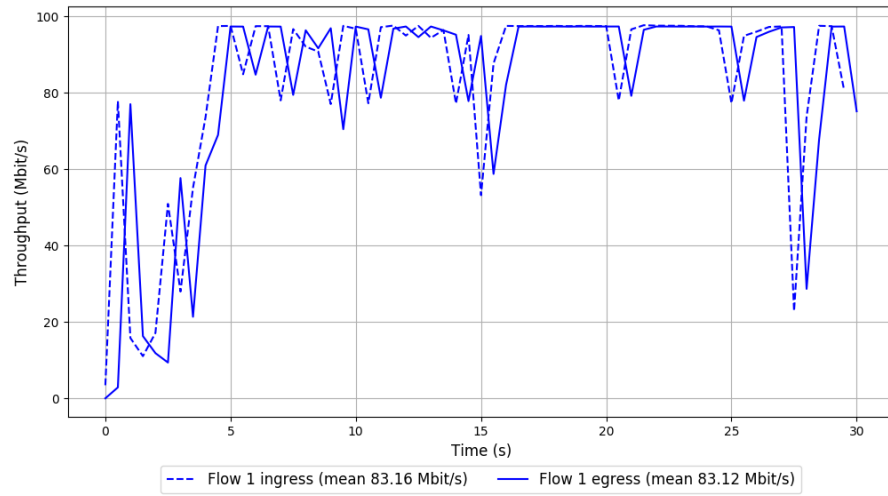
-- Flow 1:

Average throughput: 83.12 Mbit/s

95th percentile per-packet one-way delay: 35.726 ms

Loss rate: 0.24%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-05-22 11:15:03

End at: 2018-05-22 11:15:33

Local clock offset: 6.435 ms

Remote clock offset: 1.164 ms

Below is generated by plot.py at 2018-05-22 13:34:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.64 Mbit/s

95th percentile per-packet one-way delay: 40.068 ms

Loss rate: 0.25%

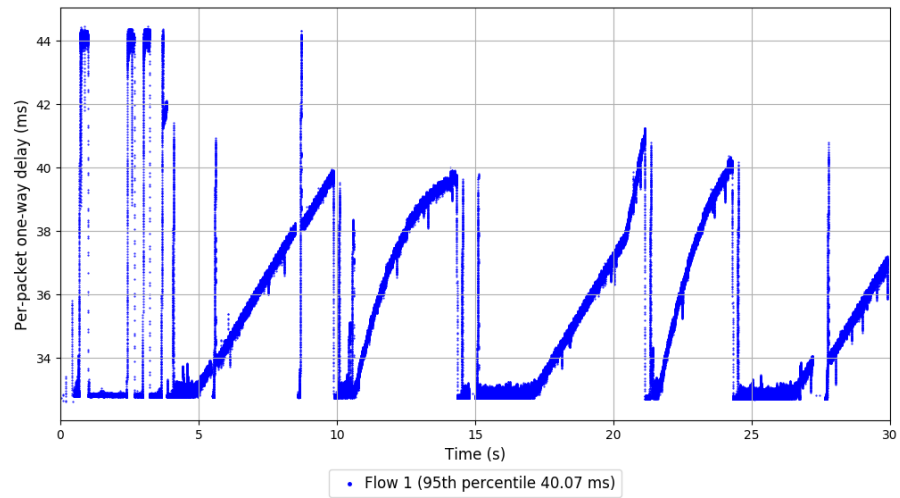
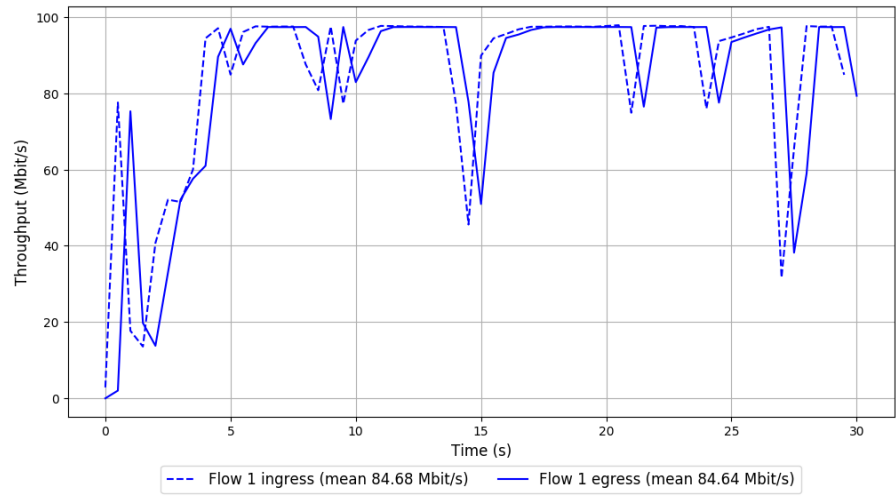
-- Flow 1:

Average throughput: 84.64 Mbit/s

95th percentile per-packet one-way delay: 40.068 ms

Loss rate: 0.25%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-22 11:35:49

End at: 2018-05-22 11:36:19

Local clock offset: 2.778 ms

Remote clock offset: 2.652 ms

Below is generated by plot.py at 2018-05-22 13:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.02 Mbit/s

95th percentile per-packet one-way delay: 36.859 ms

Loss rate: 0.28%

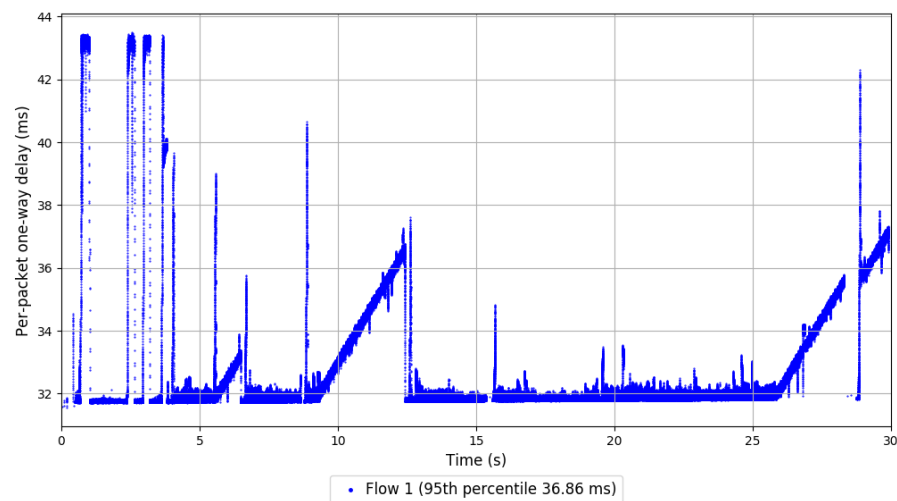
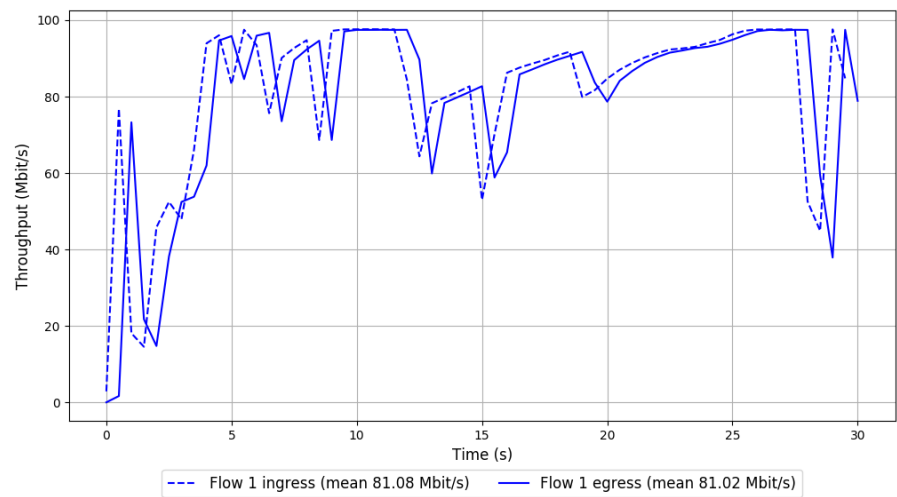
-- Flow 1:

Average throughput: 81.02 Mbit/s

95th percentile per-packet one-way delay: 36.859 ms

Loss rate: 0.28%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-05-22 11:56:39

End at: 2018-05-22 11:57:09

Local clock offset: 0.054 ms

Remote clock offset: 0.401 ms

Below is generated by plot.py at 2018-05-22 13:34:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.96 Mbit/s

95th percentile per-packet one-way delay: 35.741 ms

Loss rate: 0.07%

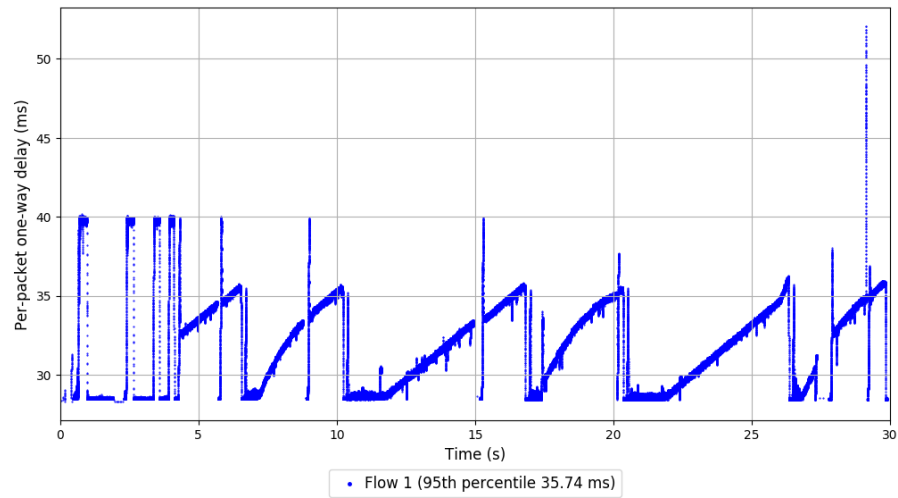
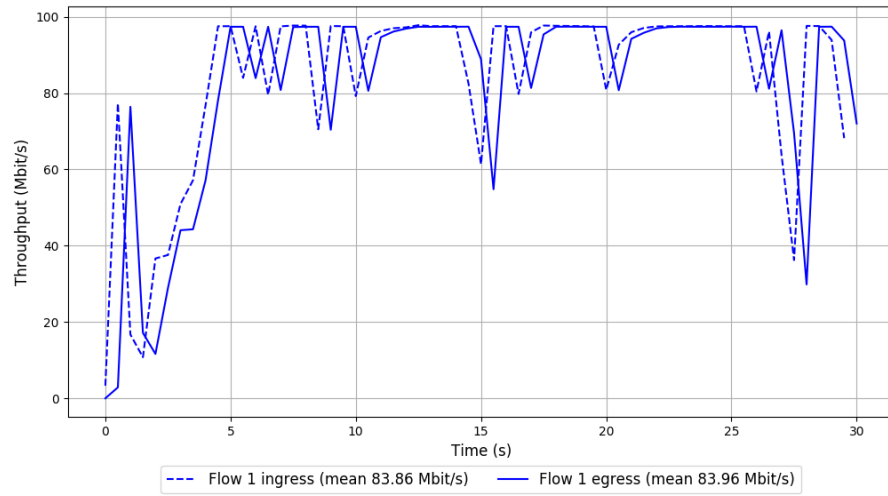
-- Flow 1:

Average throughput: 83.96 Mbit/s

95th percentile per-packet one-way delay: 35.741 ms

Loss rate: 0.07%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-22 12:18:20

End at: 2018-05-22 12:18:50

Local clock offset: 0.444 ms

Remote clock offset: 1.918 ms

Below is generated by plot.py at 2018-05-22 13:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.56 Mbit/s

95th percentile per-packet one-way delay: 33.285 ms

Loss rate: 0.23%

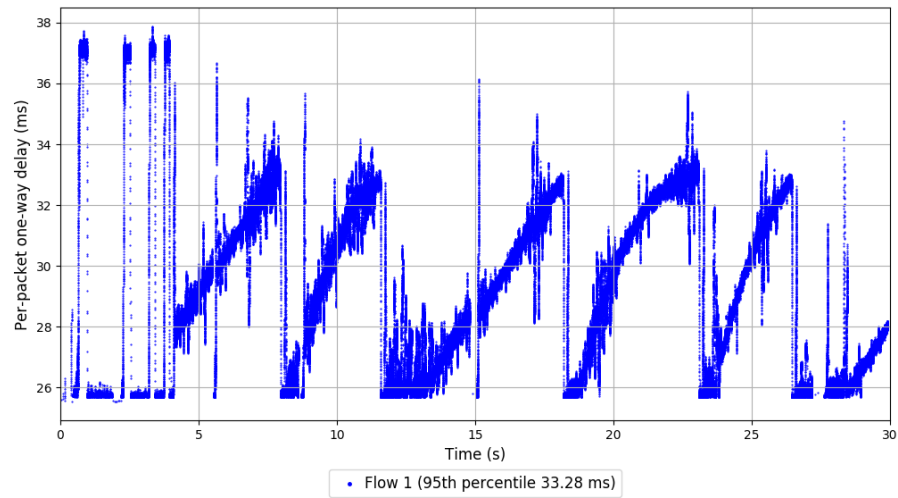
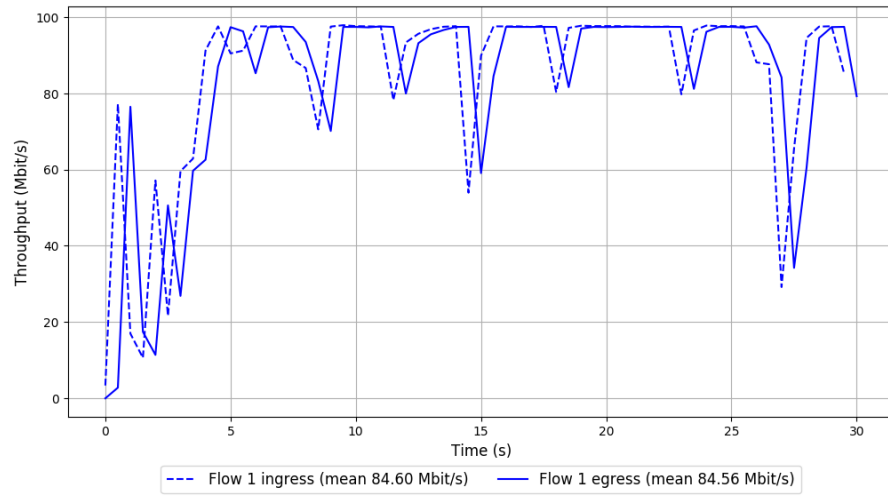
-- Flow 1:

Average throughput: 84.56 Mbit/s

95th percentile per-packet one-way delay: 33.285 ms

Loss rate: 0.23%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-05-22 12:39:48

End at: 2018-05-22 12:40:18

Local clock offset: 0.654 ms

Remote clock offset: 3.138 ms

Below is generated by plot.py at 2018-05-22 13:35:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.88 Mbit/s

95th percentile per-packet one-way delay: 33.681 ms

Loss rate: 0.23%

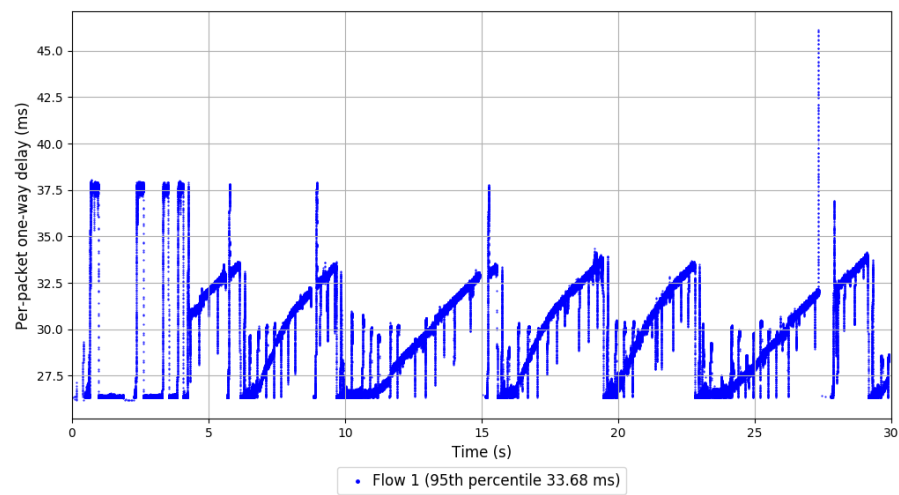
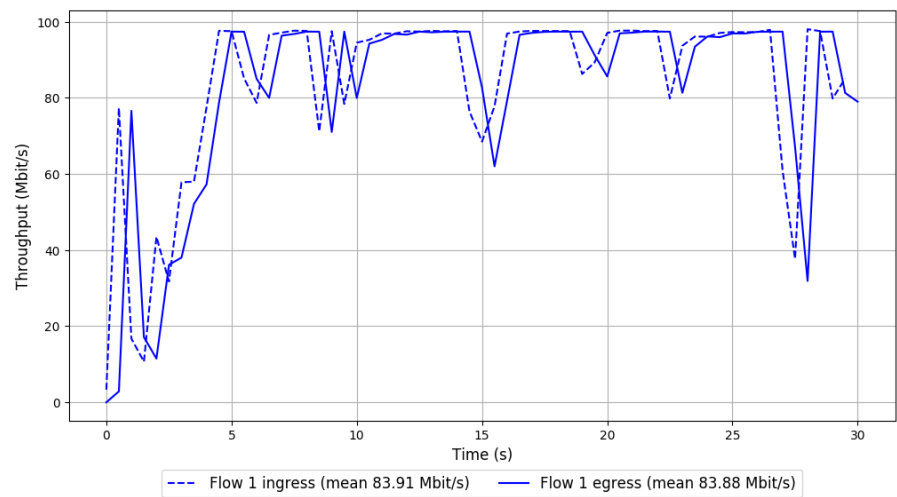
-- Flow 1:

Average throughput: 83.88 Mbit/s

95th percentile per-packet one-way delay: 33.681 ms

Loss rate: 0.23%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-22 13:01:07

End at: 2018-05-22 13:01:37

Local clock offset: 0.731 ms

Remote clock offset: 2.798 ms

Below is generated by plot.py at 2018-05-22 13:35:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.89 Mbit/s

95th percentile per-packet one-way delay: 38.564 ms

Loss rate: 0.25%

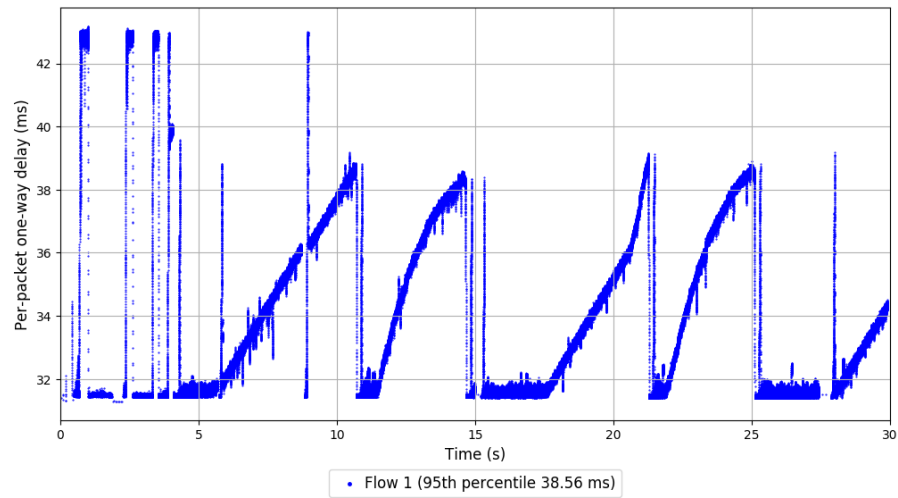
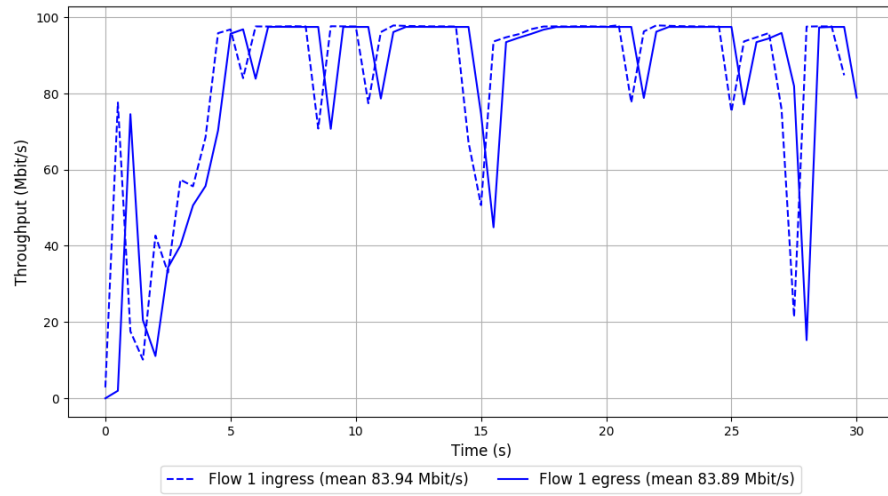
-- Flow 1:

Average throughput: 83.89 Mbit/s

95th percentile per-packet one-way delay: 38.564 ms

Loss rate: 0.25%

Run 10: Report of QUIC Cubic — Data Link

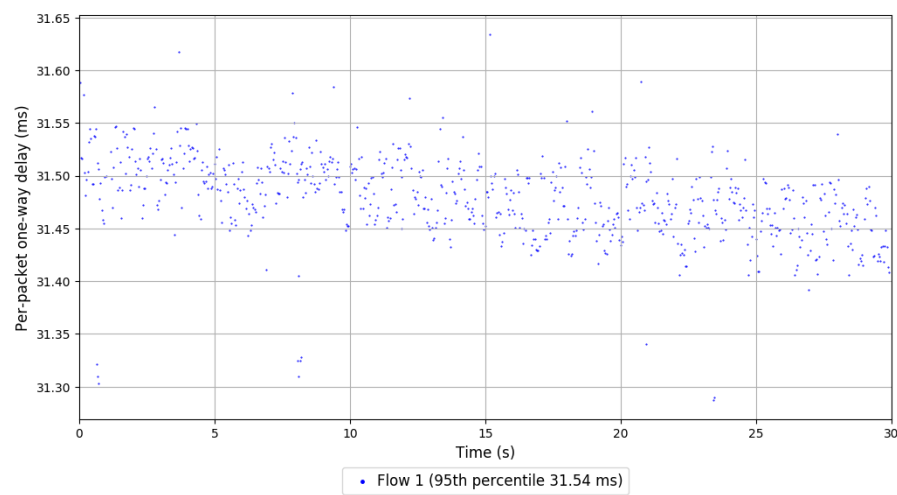
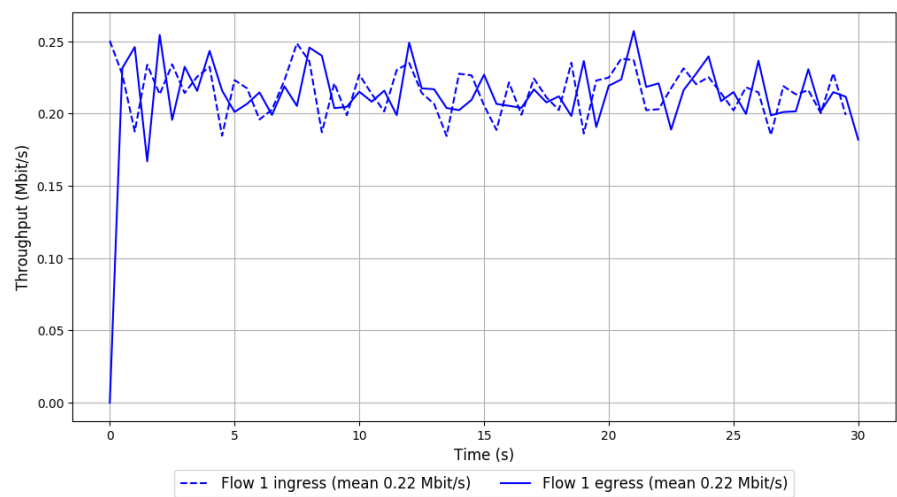


```
Run 1: Statistics of SCReAM

Start at: 2018-05-22 10:03:49
End at: 2018-05-22 10:04:19
Local clock offset: 1.11 ms
Remote clock offset: 3.497 ms

# Below is generated by plot.py at 2018-05-22 13:35:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.535 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.535 ms
Loss rate: 0.26%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-05-22 10:24:33

End at: 2018-05-22 10:25:03

Local clock offset: 1.512 ms

Remote clock offset: 3.434 ms

Below is generated by plot.py at 2018-05-22 13:35:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.990 ms

Loss rate: 0.26%

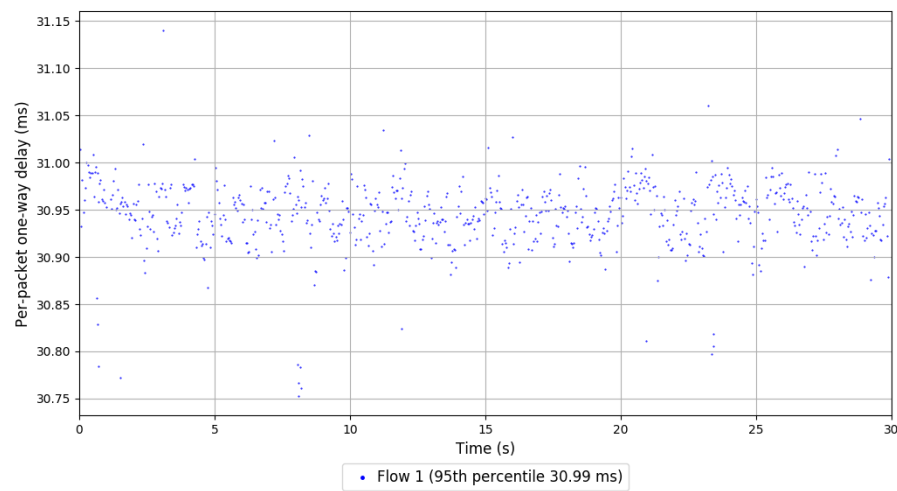
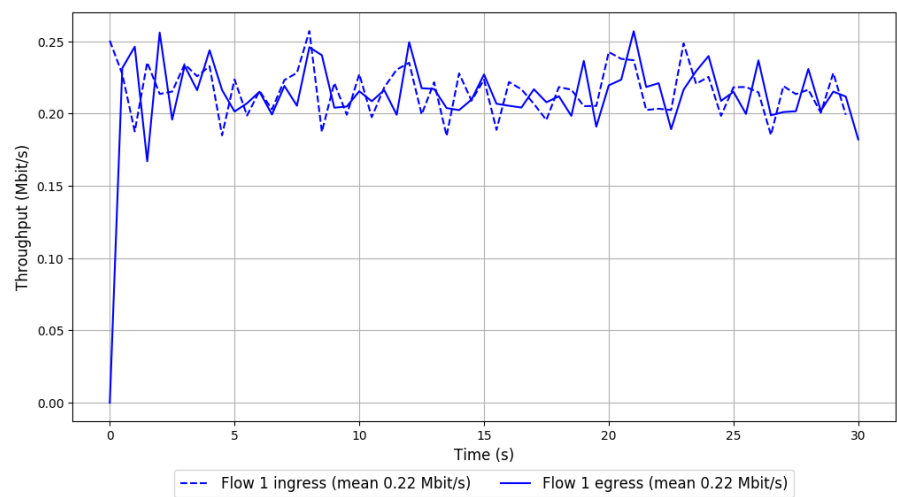
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.990 ms

Loss rate: 0.26%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-05-22 10:45:18

End at: 2018-05-22 10:45:48

Local clock offset: 0.718 ms

Remote clock offset: 3.162 ms

Below is generated by plot.py at 2018-05-22 13:35:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.827 ms

Loss rate: 0.13%

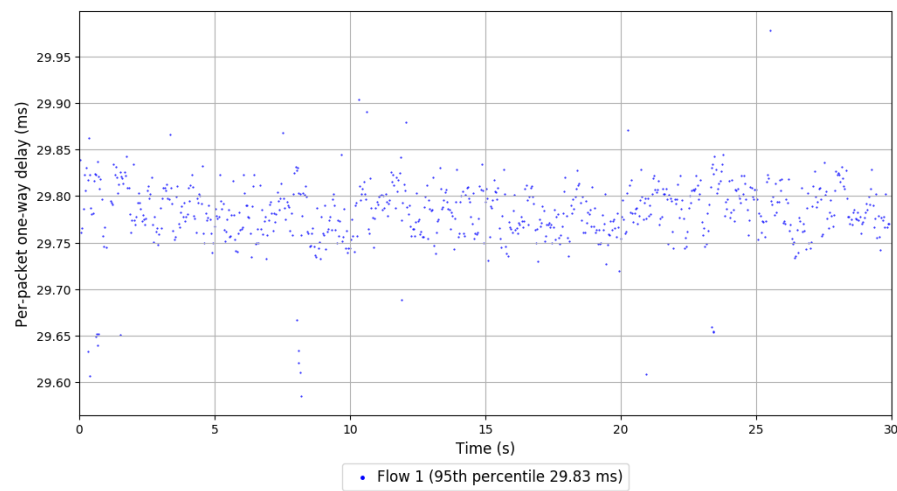
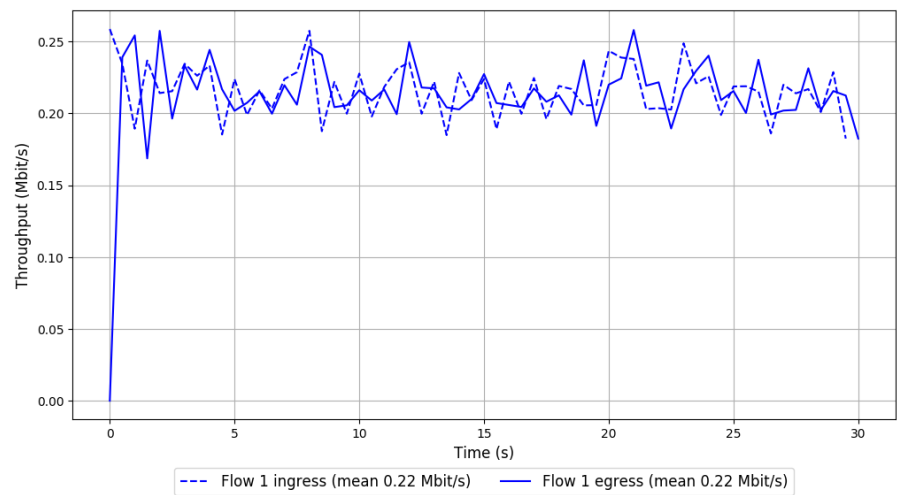
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.827 ms

Loss rate: 0.13%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-05-22 11:06:04

End at: 2018-05-22 11:06:34

Local clock offset: 4.64 ms

Remote clock offset: 3.411 ms

Below is generated by plot.py at 2018-05-22 13:35:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 26.256 ms

Loss rate: 0.13%

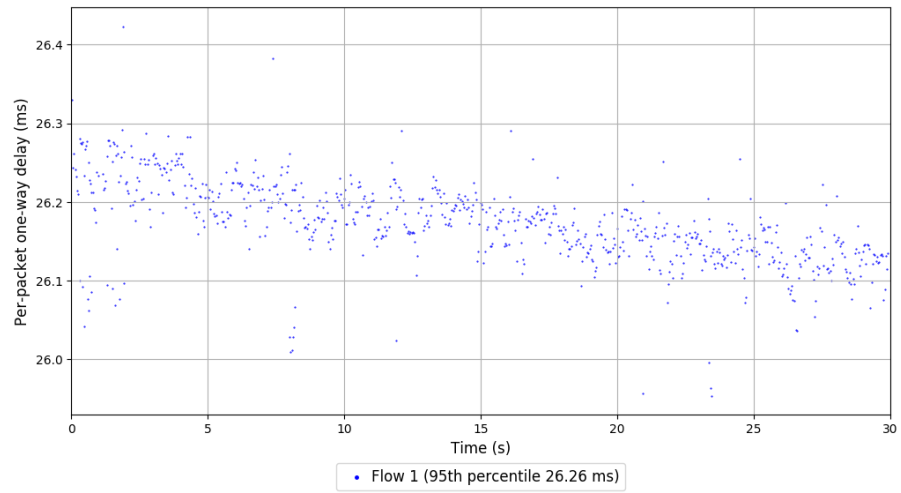
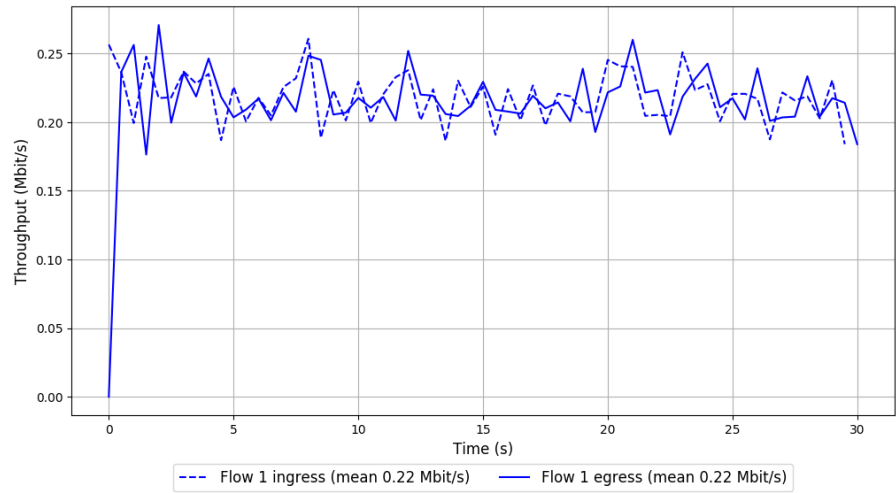
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 26.256 ms

Loss rate: 0.13%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-05-22 11:26:50

End at: 2018-05-22 11:27:20

Local clock offset: 7.23 ms

Remote clock offset: 2.812 ms

Below is generated by plot.py at 2018-05-22 13:35:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.517 ms

Loss rate: 0.26%

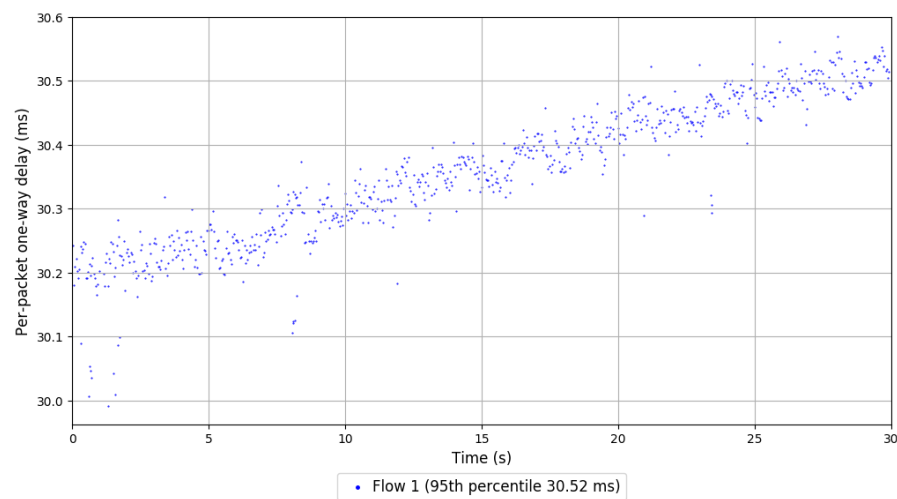
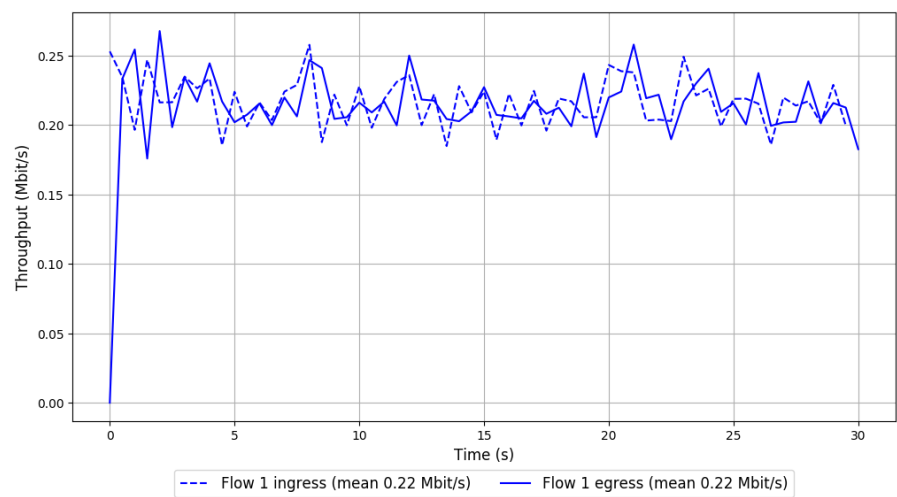
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.517 ms

Loss rate: 0.26%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-05-22 11:47:39

End at: 2018-05-22 11:48:09

Local clock offset: 0.748 ms

Remote clock offset: 2.829 ms

Below is generated by plot.py at 2018-05-22 13:35:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.579 ms

Loss rate: 0.26%

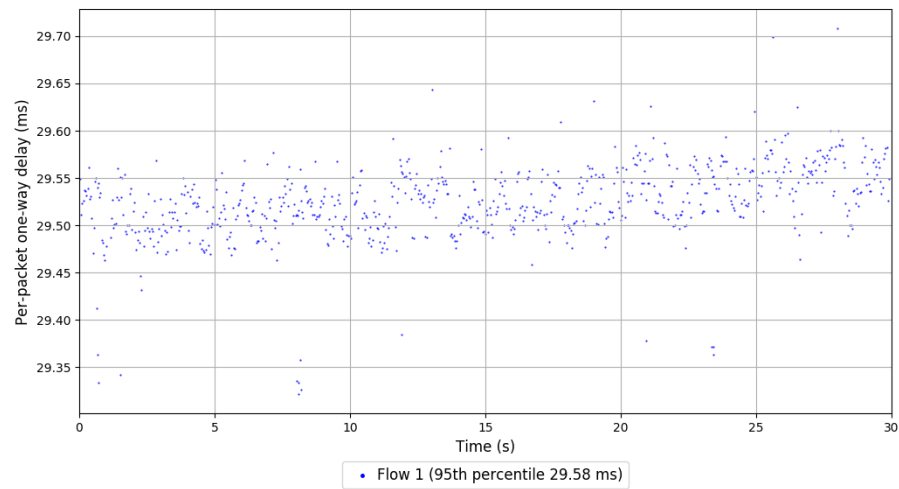
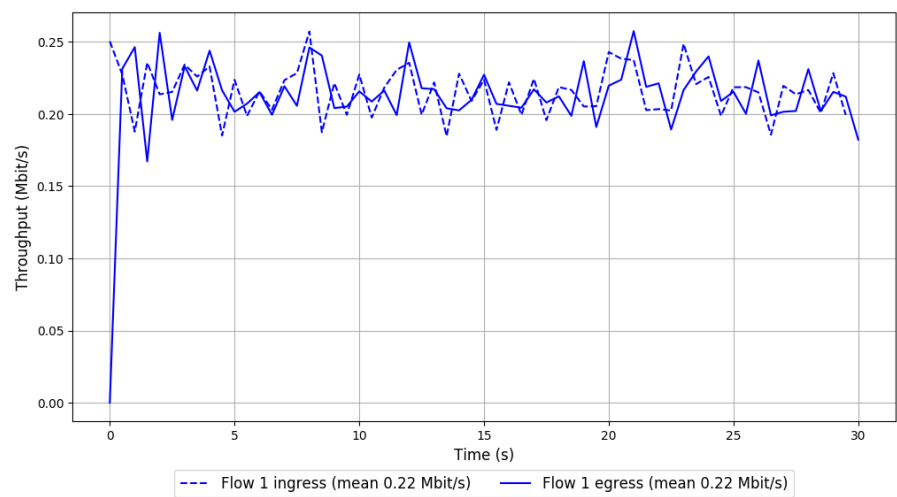
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.579 ms

Loss rate: 0.26%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-05-22 12:08:36

End at: 2018-05-22 12:09:06

Local clock offset: 0.439 ms

Remote clock offset: 0.137 ms

Below is generated by plot.py at 2018-05-22 13:35:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 32.685 ms

Loss rate: 0.26%

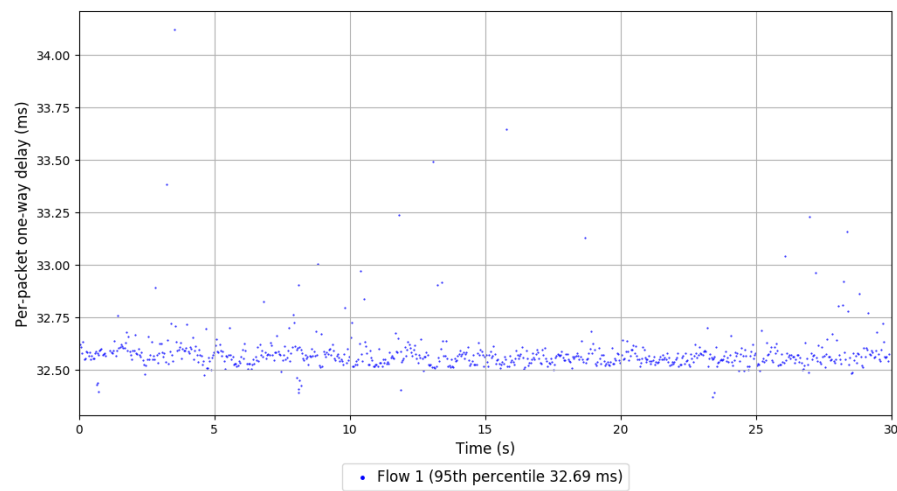
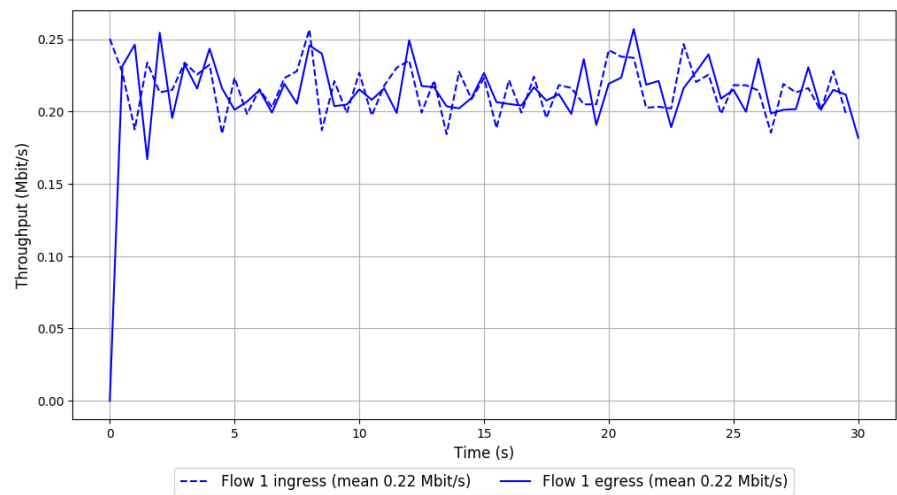
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 32.685 ms

Loss rate: 0.26%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-05-22 12:30:47

End at: 2018-05-22 12:31:17

Local clock offset: 0.417 ms

Remote clock offset: 0.708 ms

Below is generated by plot.py at 2018-05-22 13:35:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.960 ms

Loss rate: 0.26%

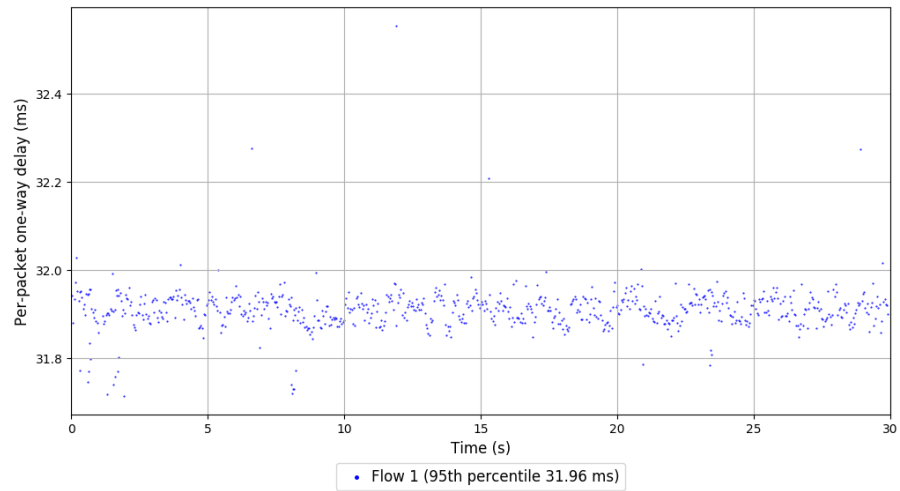
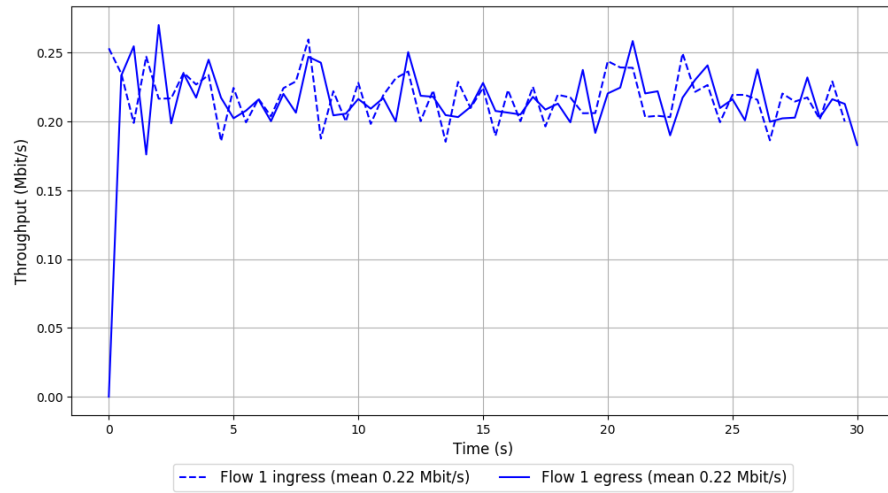
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.960 ms

Loss rate: 0.26%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-05-22 12:51:47

End at: 2018-05-22 12:52:17

Local clock offset: 0.604 ms

Remote clock offset: 3.28 ms

Below is generated by plot.py at 2018-05-22 13:35:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.894 ms

Loss rate: 0.26%

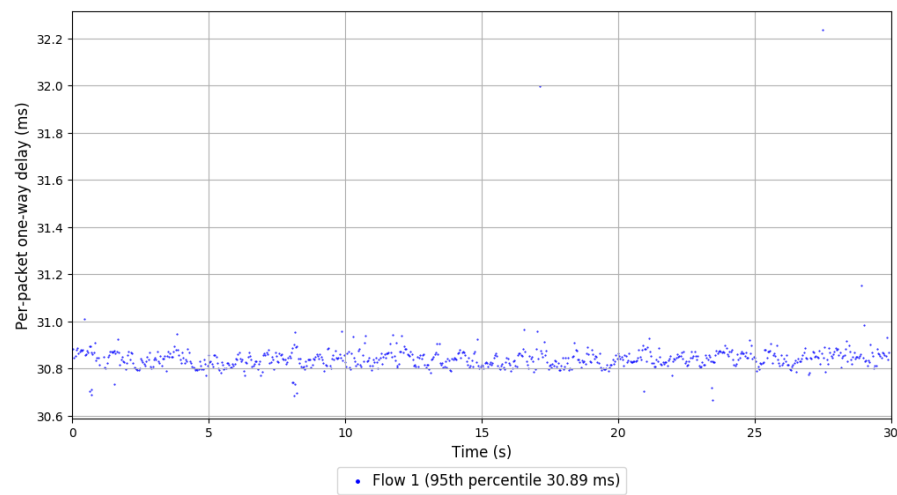
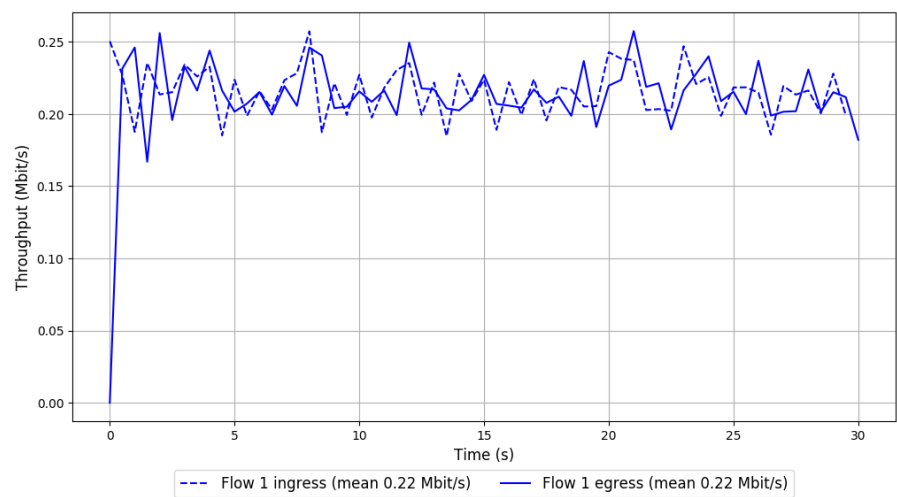
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.894 ms

Loss rate: 0.26%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-05-22 13:12:57

End at: 2018-05-22 13:13:27

Local clock offset: 0.937 ms

Remote clock offset: 2.308 ms

Below is generated by plot.py at 2018-05-22 13:35:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 26.580 ms

Loss rate: 0.26%

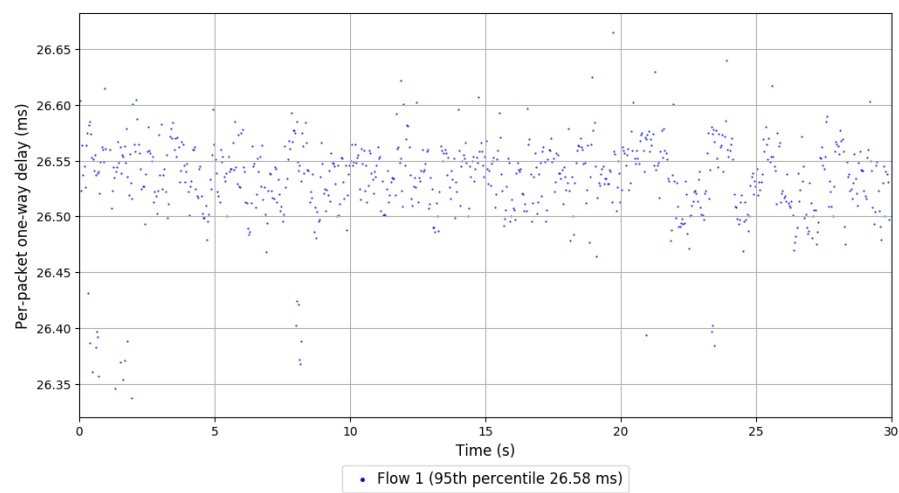
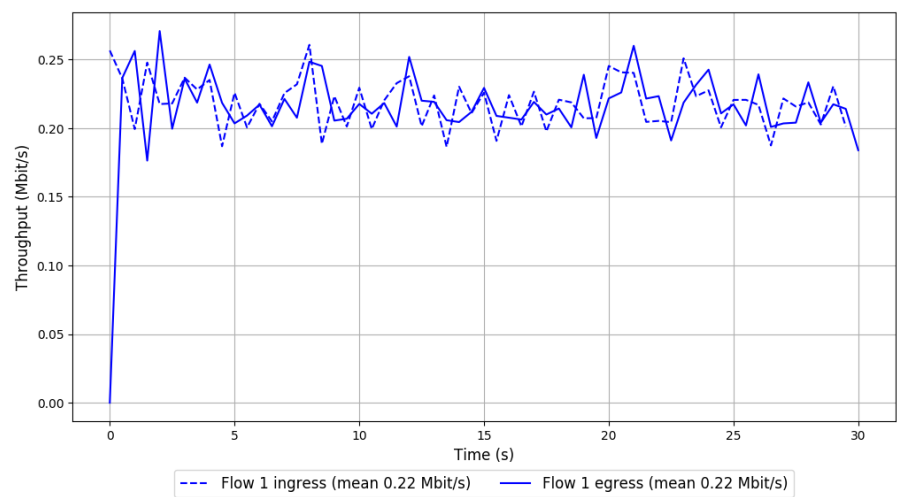
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 26.580 ms

Loss rate: 0.26%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-05-22 09:59:53

End at: 2018-05-22 10:00:23

Local clock offset: 0.741 ms

Remote clock offset: 1.425 ms

Below is generated by plot.py at 2018-05-22 13:35:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.69 Mbit/s

95th percentile per-packet one-way delay: 33.484 ms

Loss rate: 0.28%

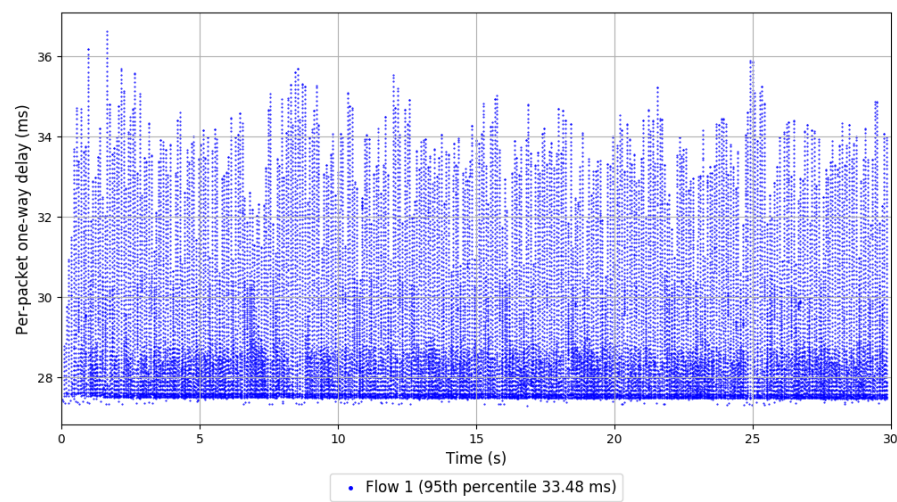
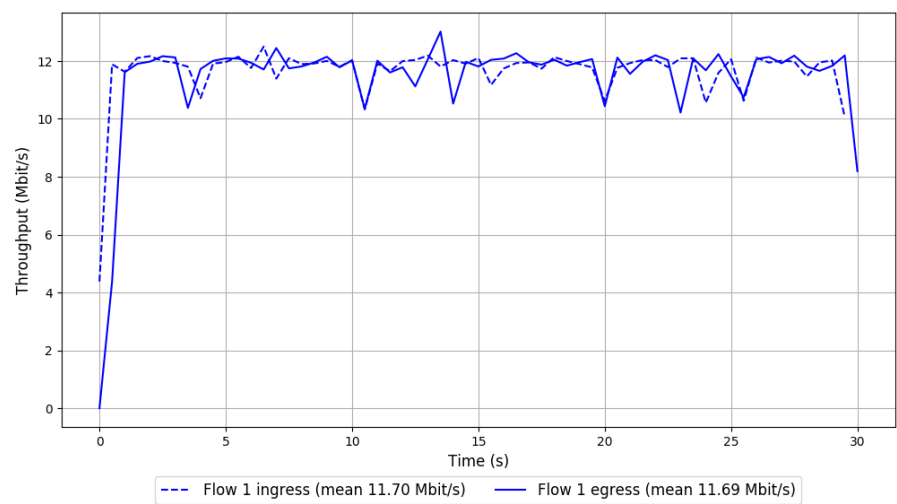
-- Flow 1:

Average throughput: 11.69 Mbit/s

95th percentile per-packet one-way delay: 33.484 ms

Loss rate: 0.28%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-05-22 10:20:37

End at: 2018-05-22 10:21:08

Local clock offset: 1.472 ms

Remote clock offset: 2.96 ms

Below is generated by plot.py at 2018-05-22 13:35:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.56 Mbit/s

95th percentile per-packet one-way delay: 36.230 ms

Loss rate: 0.14%

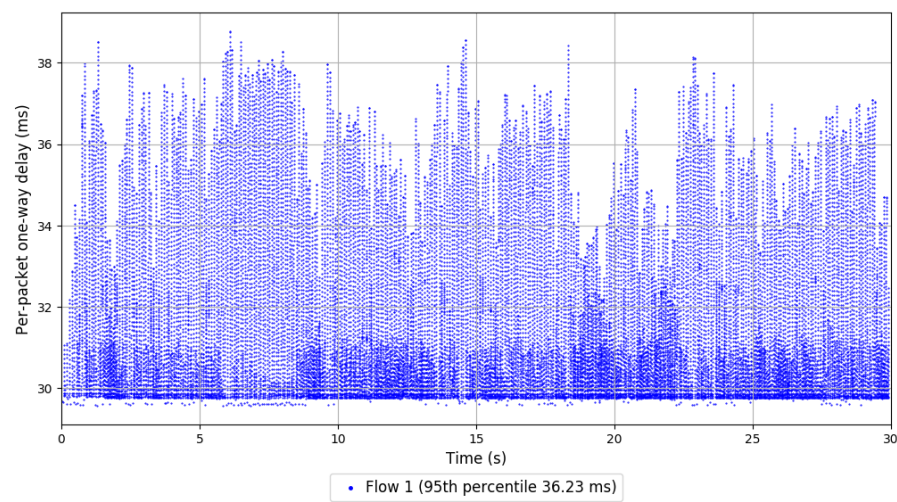
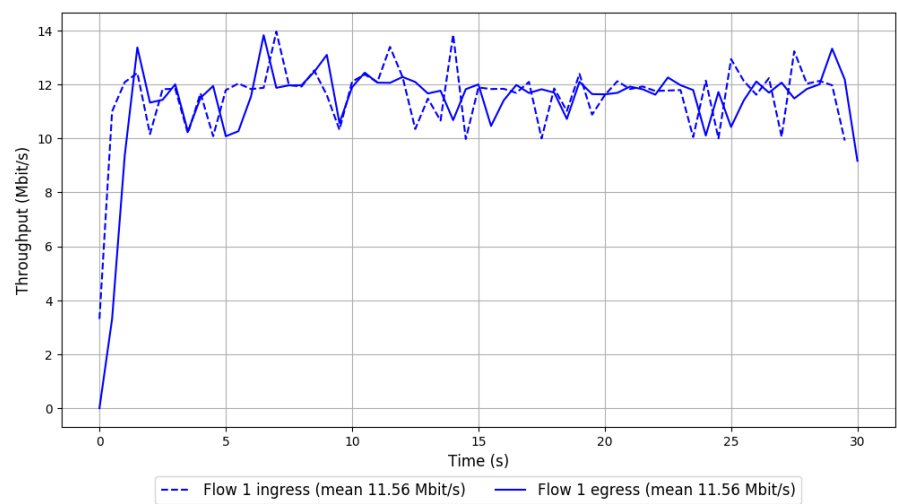
-- Flow 1:

Average throughput: 11.56 Mbit/s

95th percentile per-packet one-way delay: 36.230 ms

Loss rate: 0.14%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-05-22 10:41:23

End at: 2018-05-22 10:41:53

Local clock offset: 0.908 ms

Remote clock offset: 1.064 ms

Below is generated by plot.py at 2018-05-22 13:35:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.55 Mbit/s

95th percentile per-packet one-way delay: 34.437 ms

Loss rate: 0.28%

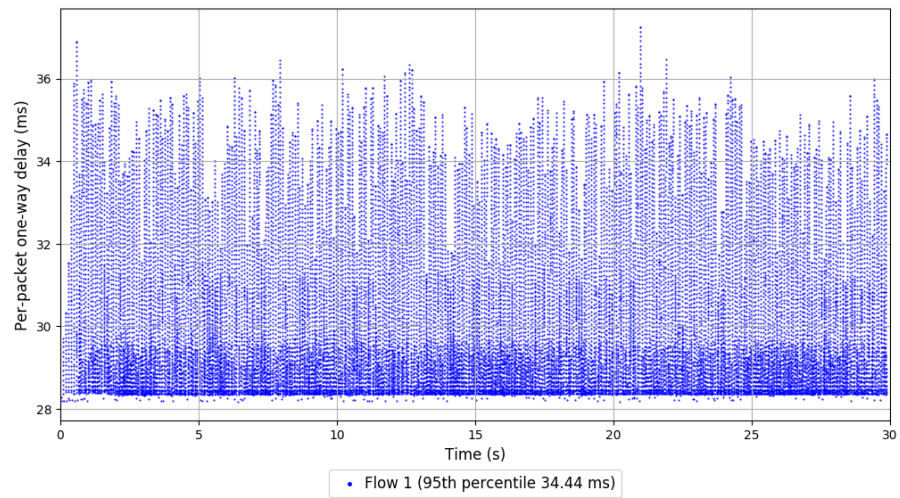
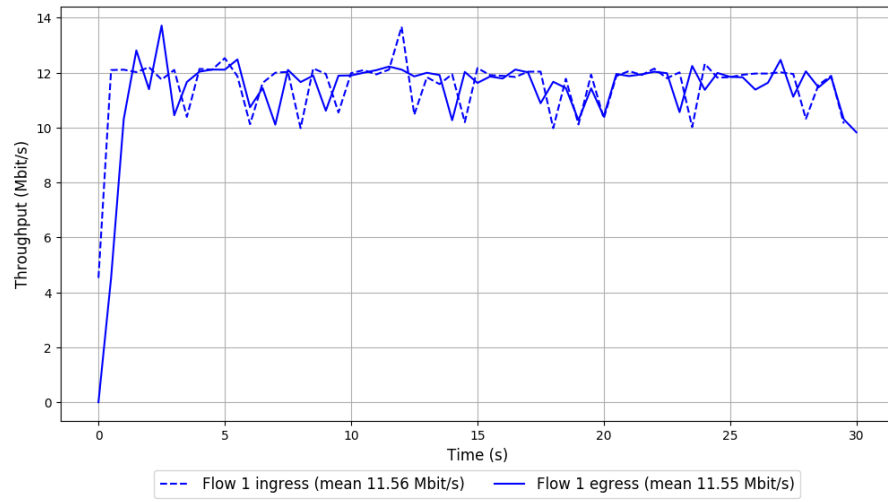
-- Flow 1:

Average throughput: 11.55 Mbit/s

95th percentile per-packet one-way delay: 34.437 ms

Loss rate: 0.28%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-05-22 11:02:09

End at: 2018-05-22 11:02:39

Local clock offset: 3.437 ms

Remote clock offset: 1.296 ms

Below is generated by plot.py at 2018-05-22 13:35:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.24 Mbit/s

95th percentile per-packet one-way delay: 38.551 ms

Loss rate: 0.24%

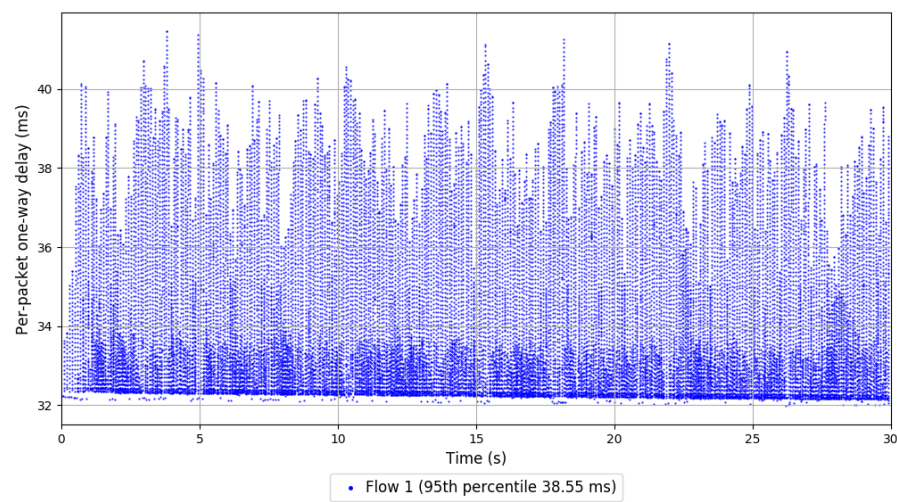
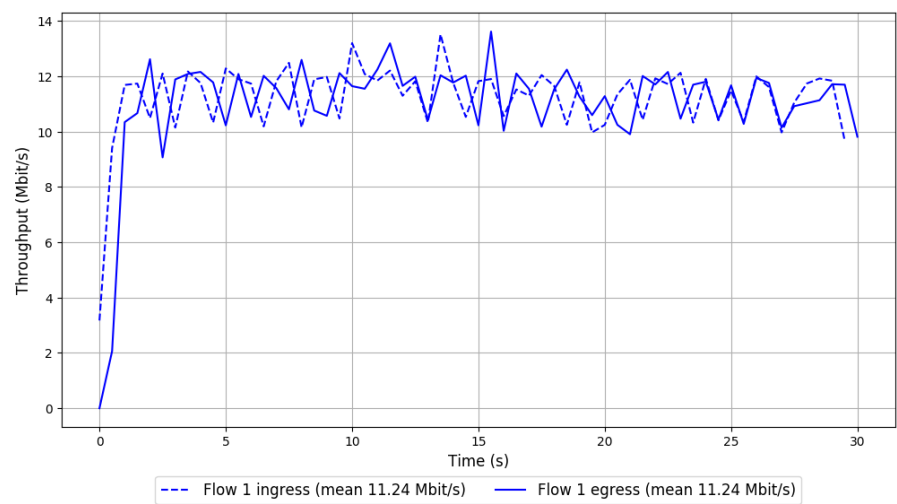
-- Flow 1:

Average throughput: 11.24 Mbit/s

95th percentile per-packet one-way delay: 38.551 ms

Loss rate: 0.24%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-05-22 11:22:55

End at: 2018-05-22 11:23:25

Local clock offset: 7.165 ms

Remote clock offset: 2.911 ms

Below is generated by plot.py at 2018-05-22 13:35:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.76 Mbit/s

95th percentile per-packet one-way delay: 31.786 ms

Loss rate: 0.25%

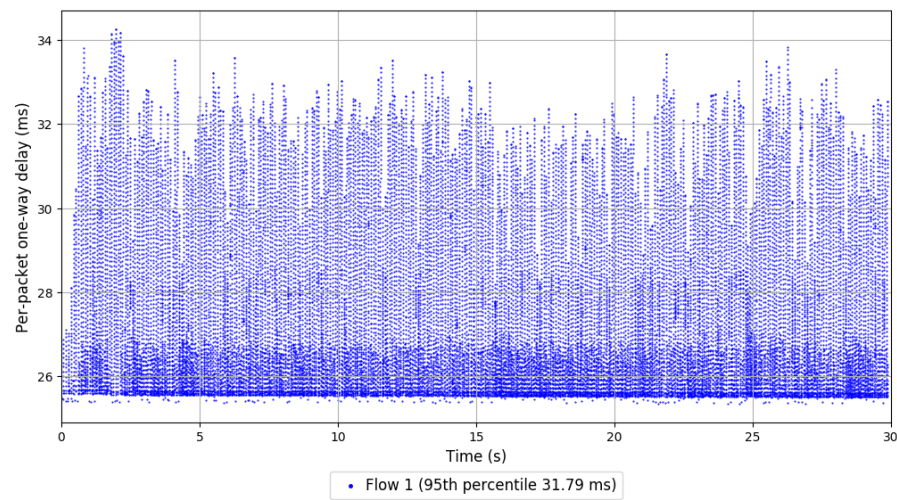
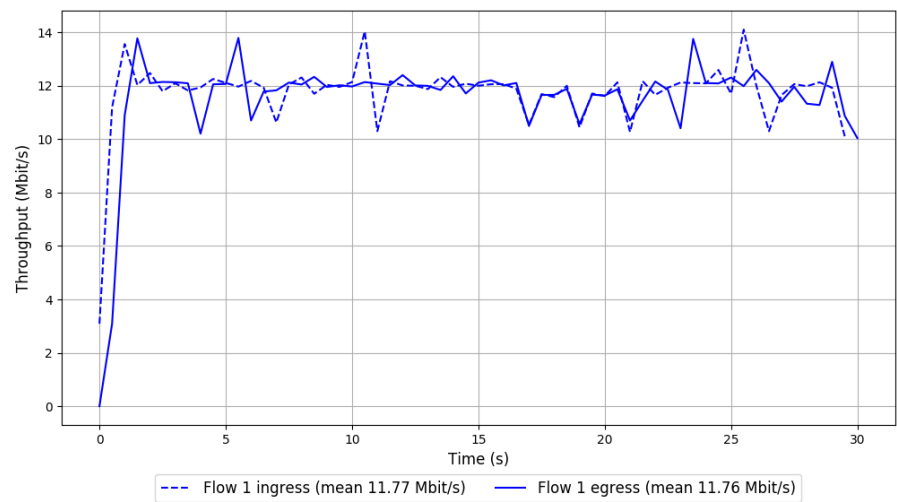
-- Flow 1:

Average throughput: 11.76 Mbit/s

95th percentile per-packet one-way delay: 31.786 ms

Loss rate: 0.25%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-05-22 11:43:42

End at: 2018-05-22 11:44:12

Local clock offset: 1.241 ms

Remote clock offset: 2.416 ms

Below is generated by plot.py at 2018-05-22 13:35:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.61 Mbit/s

95th percentile per-packet one-way delay: 32.003 ms

Loss rate: 0.05%

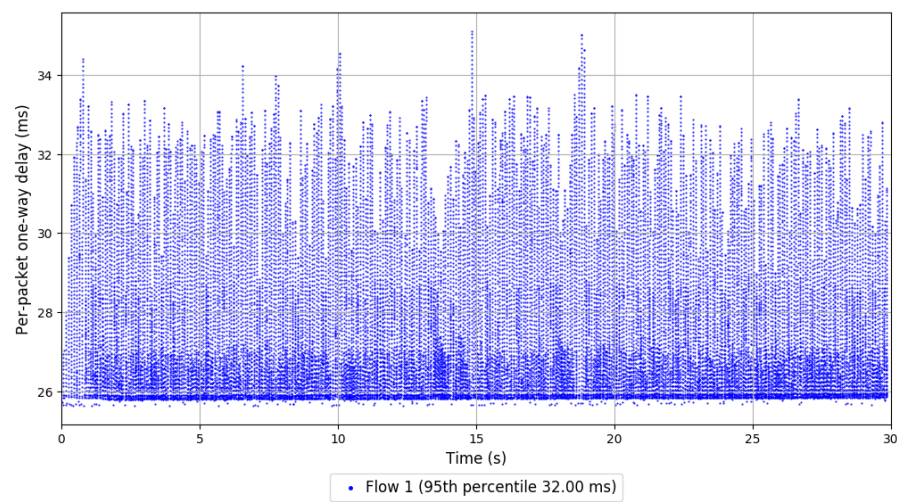
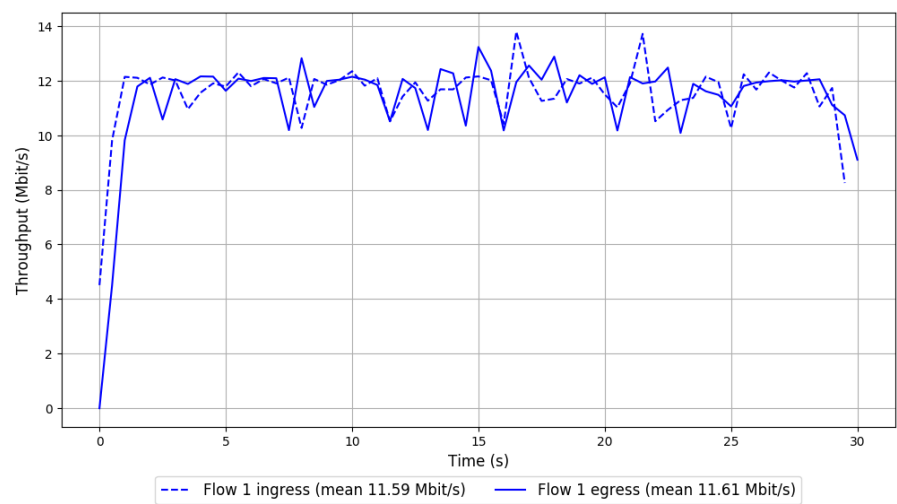
-- Flow 1:

Average throughput: 11.61 Mbit/s

95th percentile per-packet one-way delay: 32.003 ms

Loss rate: 0.05%

Run 6: Report of Sprout — Data Link

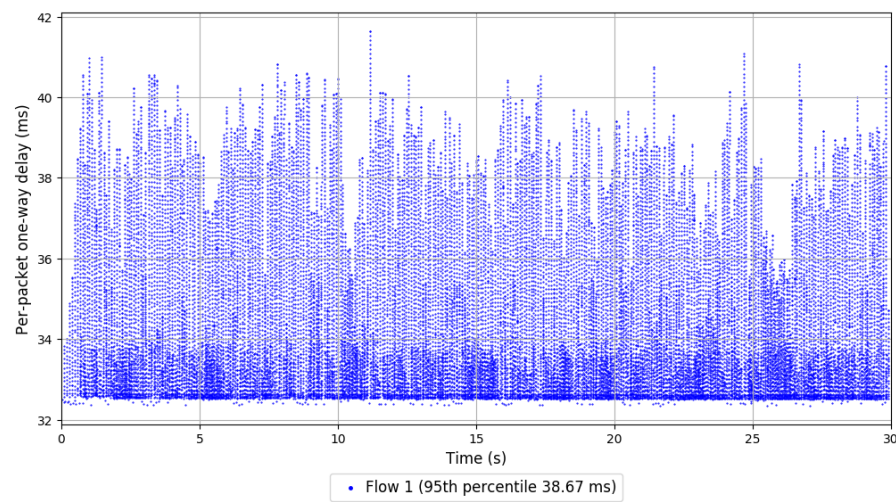
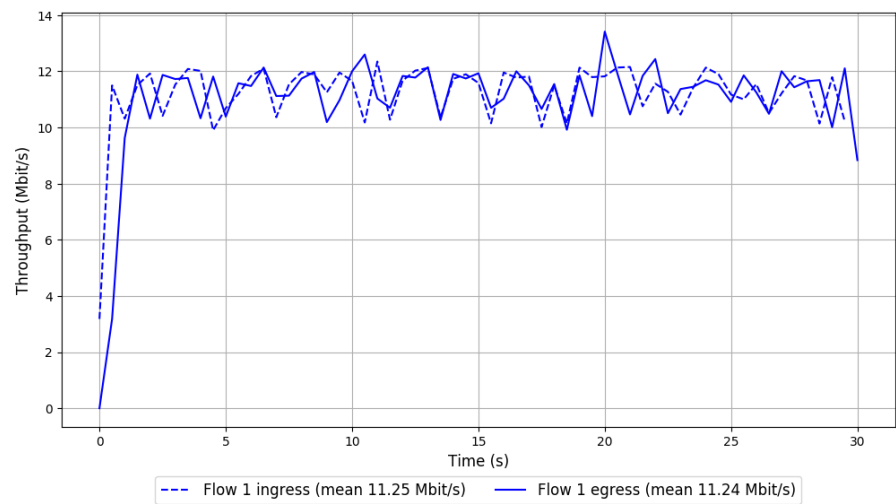


Run 7: Statistics of Sprout

Start at: 2018-05-22 12:04:34
End at: 2018-05-22 12:05:04
Local clock offset: 0.446 ms
Remote clock offset: 0.283 ms

Below is generated by plot.py at 2018-05-22 13:35:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.24 Mbit/s
95th percentile per-packet one-way delay: 38.674 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 11.24 Mbit/s
95th percentile per-packet one-way delay: 38.674 ms
Loss rate: 0.21%

Run 7: Report of Sprout — Data Link

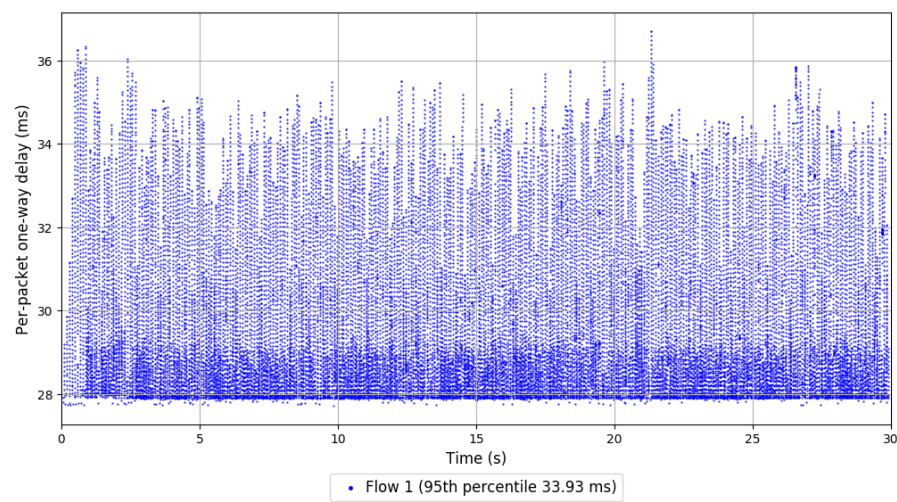
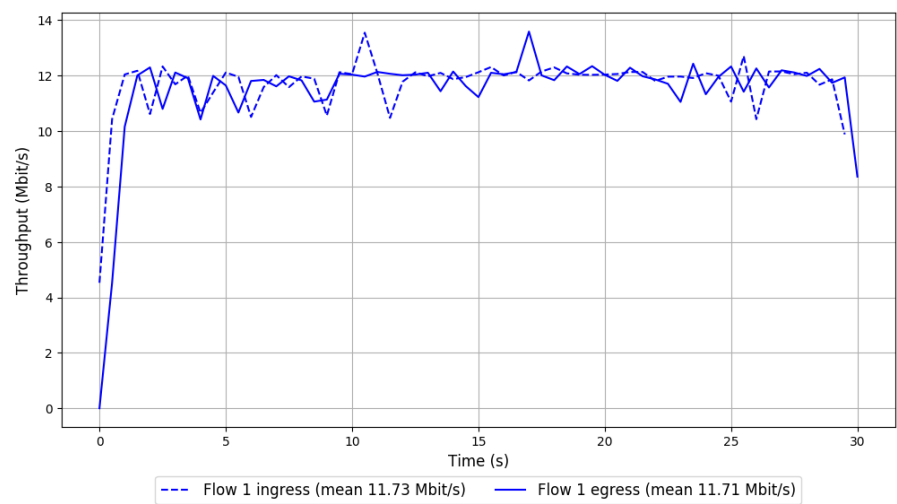


Run 8: Statistics of Sprout

Start at: 2018-05-22 12:26:50
End at: 2018-05-22 12:27:20
Local clock offset: 0.296 ms
Remote clock offset: 0.439 ms

Below is generated by plot.py at 2018-05-22 13:35:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.71 Mbit/s
95th percentile per-packet one-way delay: 33.931 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 11.71 Mbit/s
95th percentile per-packet one-way delay: 33.931 ms
Loss rate: 0.23%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-05-22 12:47:48

End at: 2018-05-22 12:48:18

Local clock offset: 0.532 ms

Remote clock offset: 3.272 ms

Below is generated by plot.py at 2018-05-22 13:35:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.17 Mbit/s

95th percentile per-packet one-way delay: 37.061 ms

Loss rate: 0.29%

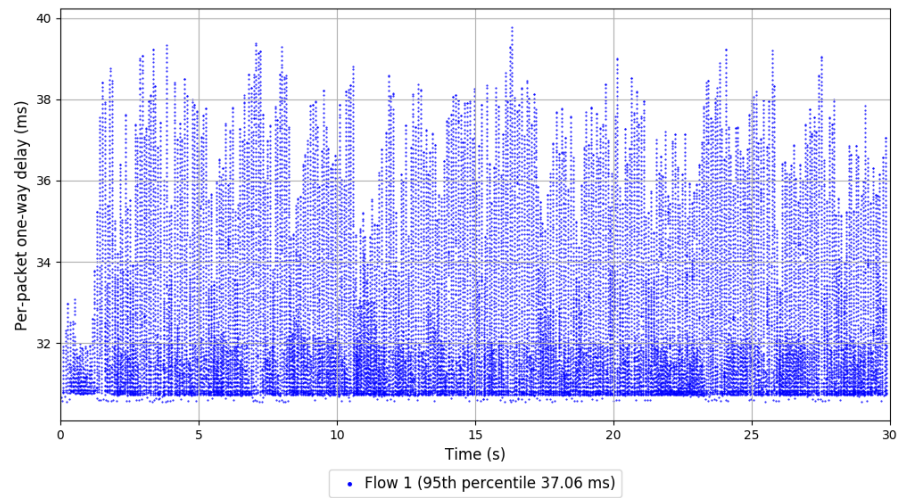
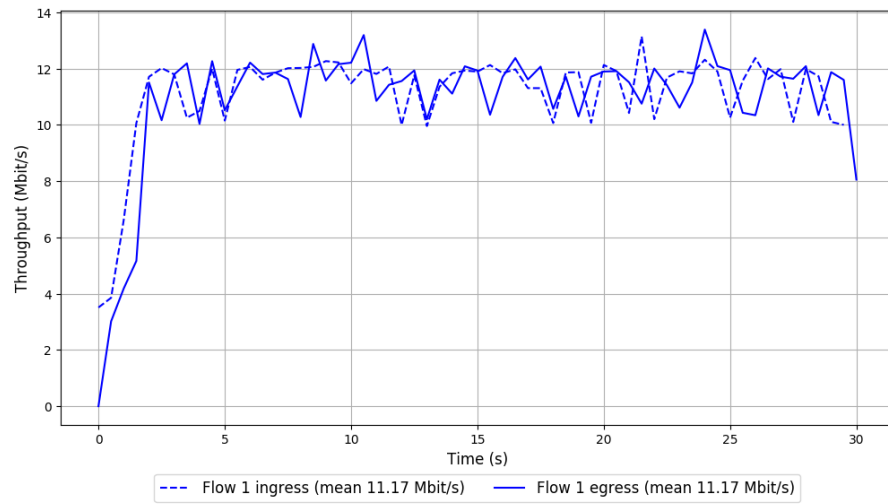
-- Flow 1:

Average throughput: 11.17 Mbit/s

95th percentile per-packet one-way delay: 37.061 ms

Loss rate: 0.29%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-05-22 13:09:02

End at: 2018-05-22 13:09:32

Local clock offset: 0.901 ms

Remote clock offset: 2.436 ms

Below is generated by plot.py at 2018-05-22 13:35:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.26 Mbit/s

95th percentile per-packet one-way delay: 35.919 ms

Loss rate: 0.09%

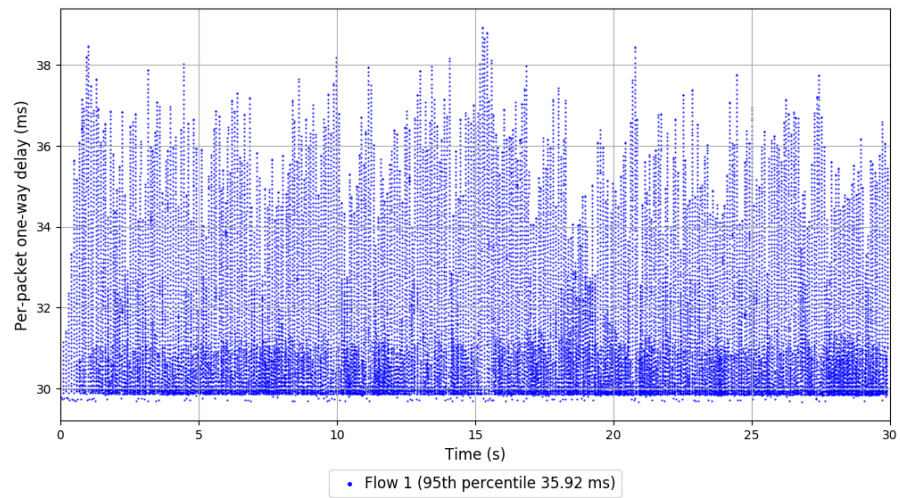
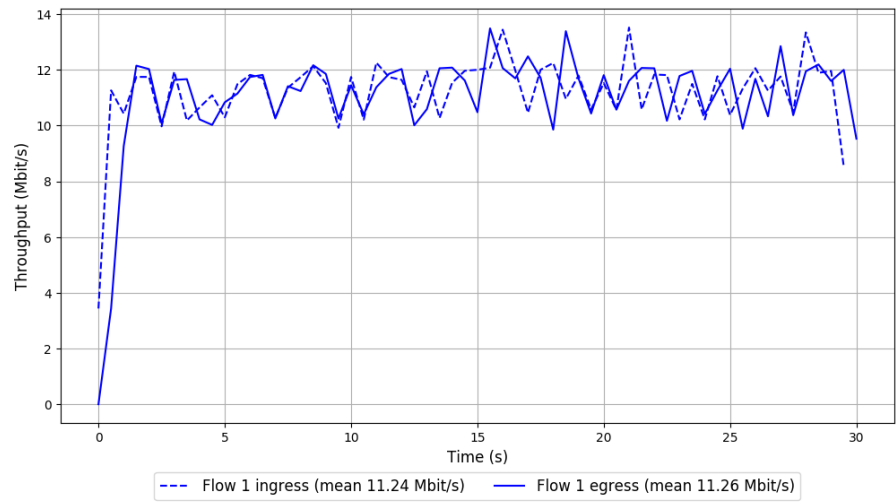
-- Flow 1:

Average throughput: 11.26 Mbit/s

95th percentile per-packet one-way delay: 35.919 ms

Loss rate: 0.09%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-05-22 10:01:09

End at: 2018-05-22 10:01:39

Local clock offset: 0.852 ms

Remote clock offset: 1.417 ms

Below is generated by plot.py at 2018-05-22 13:35:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.08 Mbit/s

95th percentile per-packet one-way delay: 42.611 ms

Loss rate: 0.25%

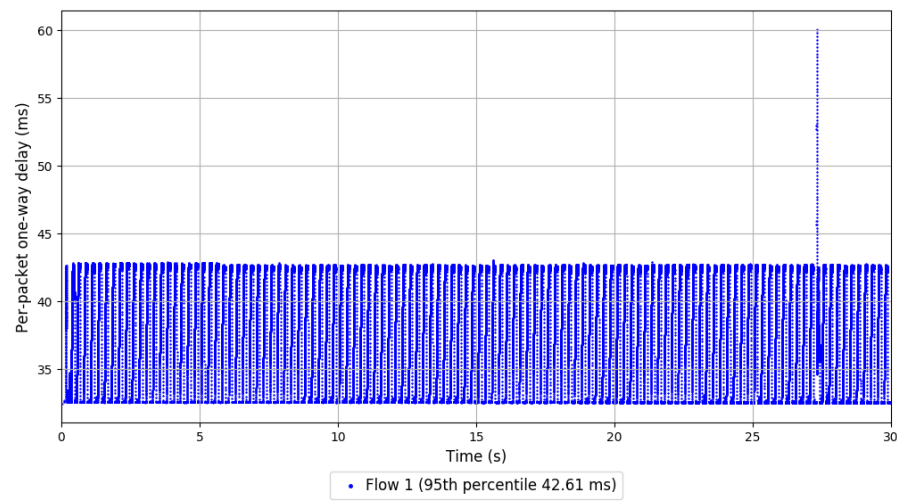
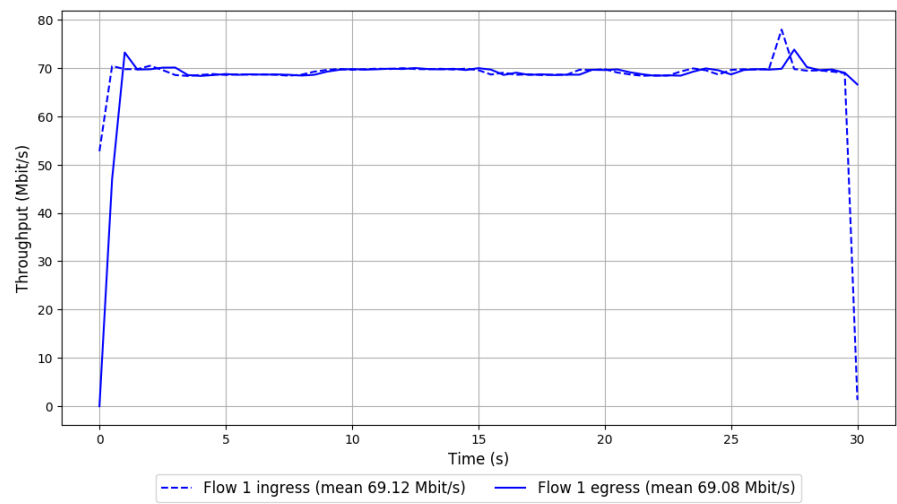
-- Flow 1:

Average throughput: 69.08 Mbit/s

95th percentile per-packet one-way delay: 42.611 ms

Loss rate: 0.25%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-05-22 10:21:53

End at: 2018-05-22 10:22:23

Local clock offset: 1.487 ms

Remote clock offset: 0.926 ms

Below is generated by plot.py at 2018-05-22 13:35:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.56 Mbit/s

95th percentile per-packet one-way delay: 41.862 ms

Loss rate: 0.13%

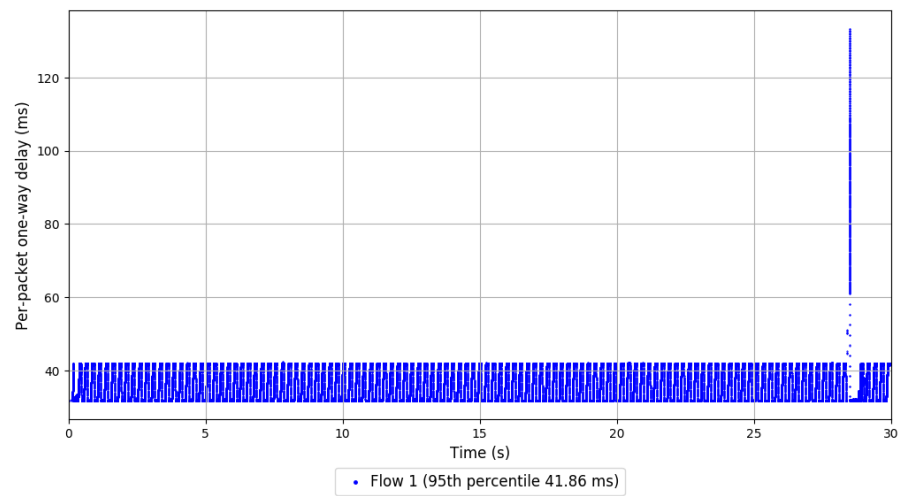
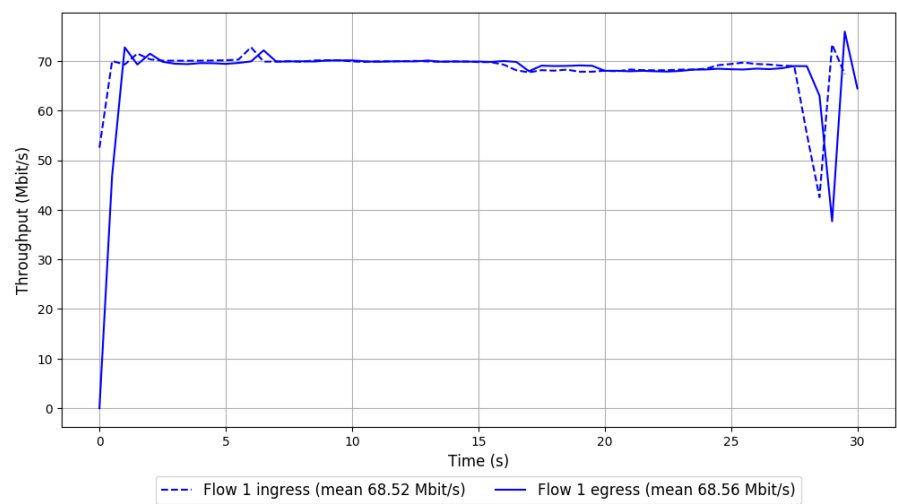
-- Flow 1:

Average throughput: 68.56 Mbit/s

95th percentile per-packet one-way delay: 41.862 ms

Loss rate: 0.13%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-22 10:42:38

End at: 2018-05-22 10:43:09

Local clock offset: 0.861 ms

Remote clock offset: 1.1 ms

Below is generated by plot.py at 2018-05-22 13:36:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.68 Mbit/s

95th percentile per-packet one-way delay: 42.971 ms

Loss rate: 0.29%

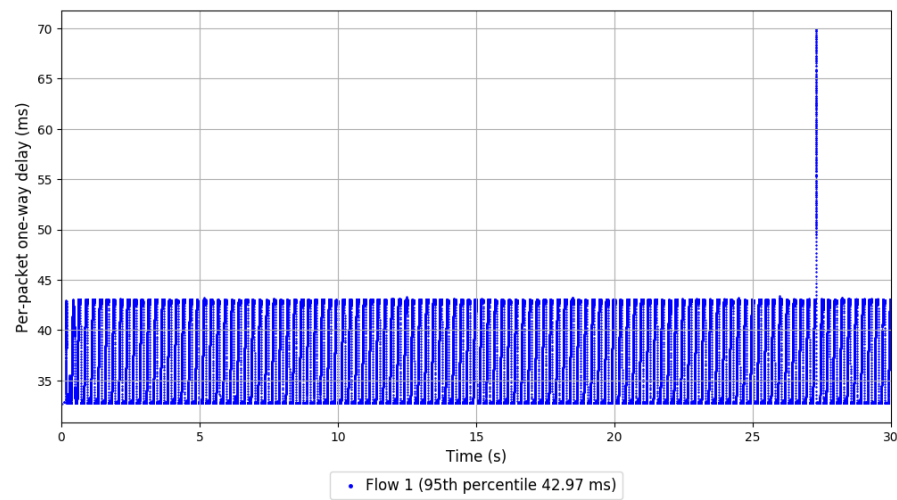
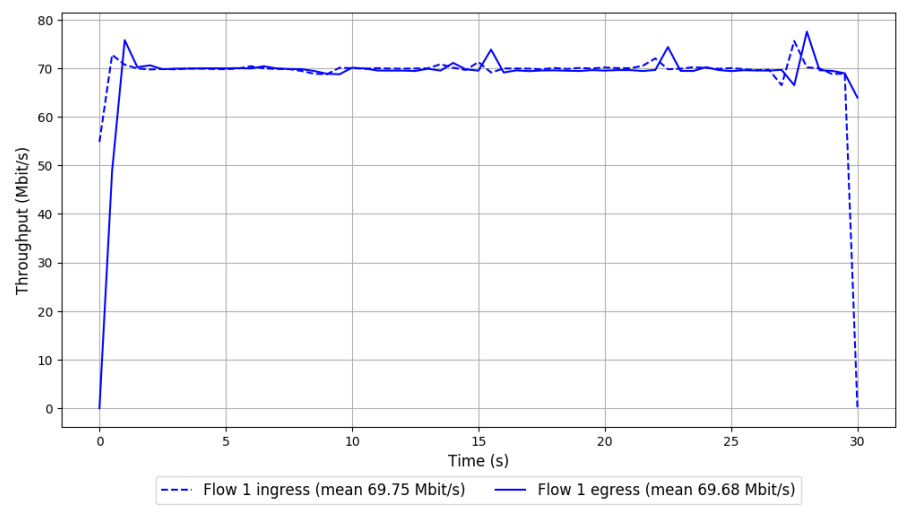
-- Flow 1:

Average throughput: 69.68 Mbit/s

95th percentile per-packet one-way delay: 42.971 ms

Loss rate: 0.29%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-05-22 11:03:24

End at: 2018-05-22 11:03:55

Local clock offset: 3.91 ms

Remote clock offset: 3.325 ms

Below is generated by plot.py at 2018-05-22 13:36:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.43 Mbit/s

95th percentile per-packet one-way delay: 40.631 ms

Loss rate: 0.21%

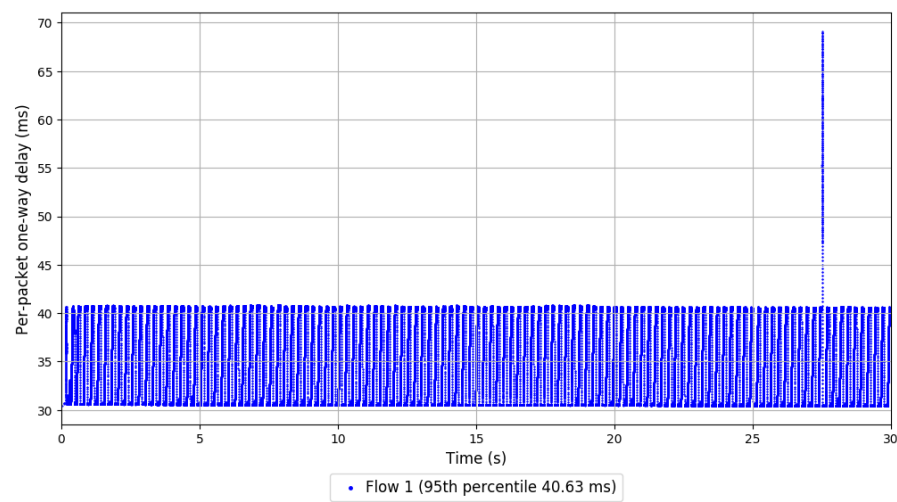
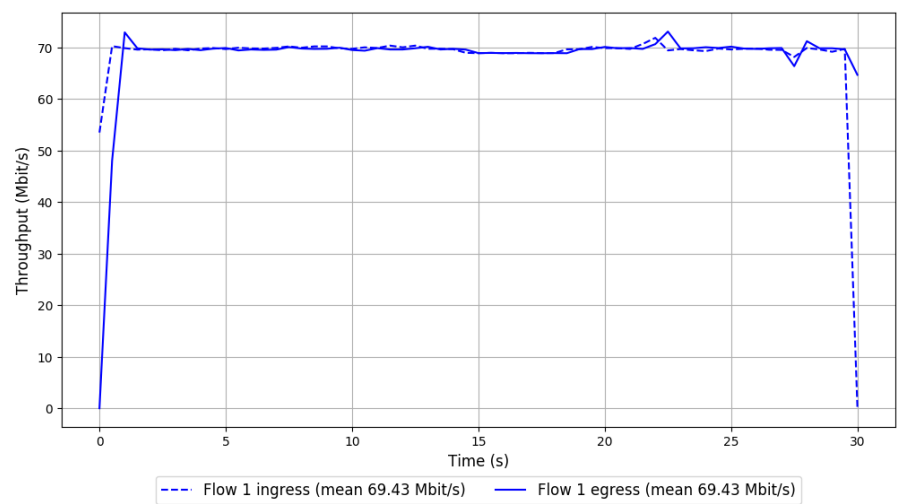
-- Flow 1:

Average throughput: 69.43 Mbit/s

95th percentile per-packet one-way delay: 40.631 ms

Loss rate: 0.21%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-22 11:24:10

End at: 2018-05-22 11:24:40

Local clock offset: 7.355 ms

Remote clock offset: 2.881 ms

Below is generated by plot.py at 2018-05-22 13:36:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.73 Mbit/s

95th percentile per-packet one-way delay: 36.499 ms

Loss rate: 0.28%

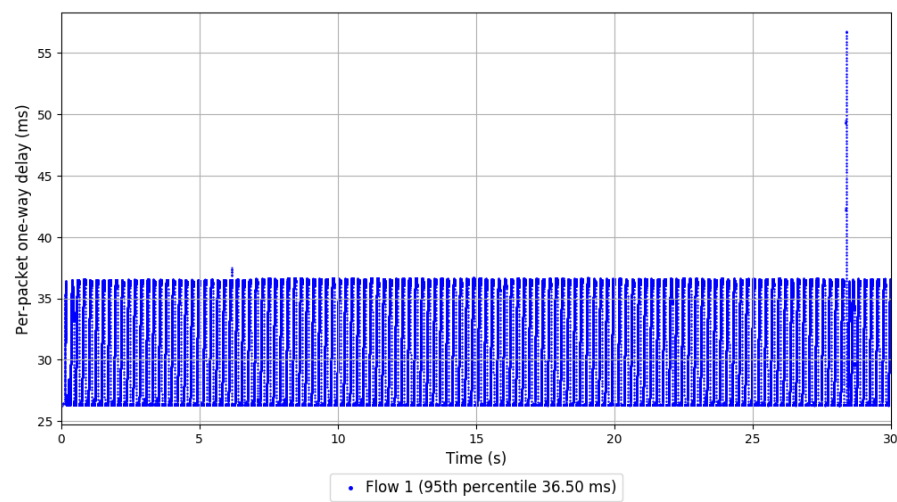
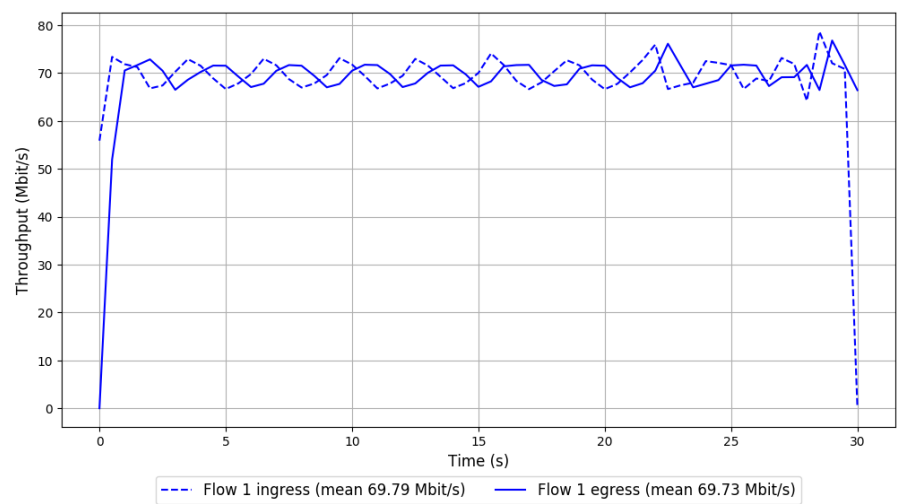
-- Flow 1:

Average throughput: 69.73 Mbit/s

95th percentile per-packet one-way delay: 36.499 ms

Loss rate: 0.28%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-05-22 11:44:58

End at: 2018-05-22 11:45:28

Local clock offset: 0.974 ms

Remote clock offset: 2.919 ms

Below is generated by plot.py at 2018-05-22 13:36:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.55 Mbit/s

95th percentile per-packet one-way delay: 39.470 ms

Loss rate: 0.32%

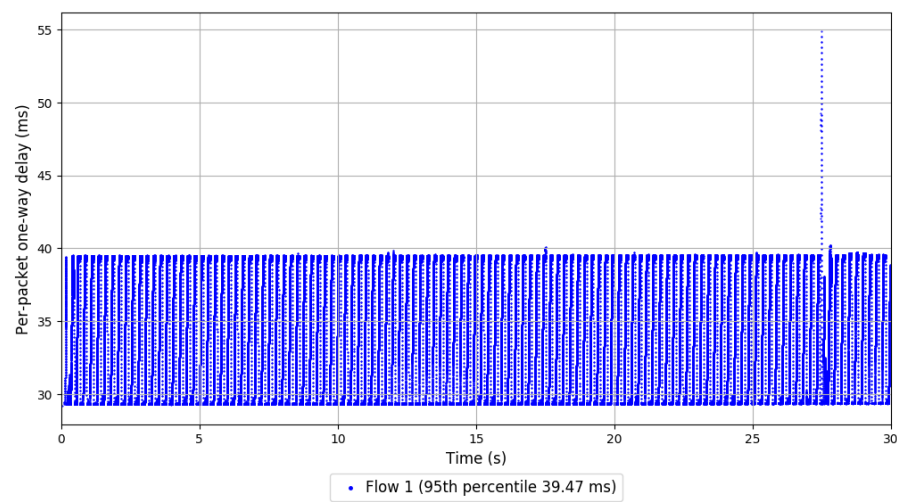
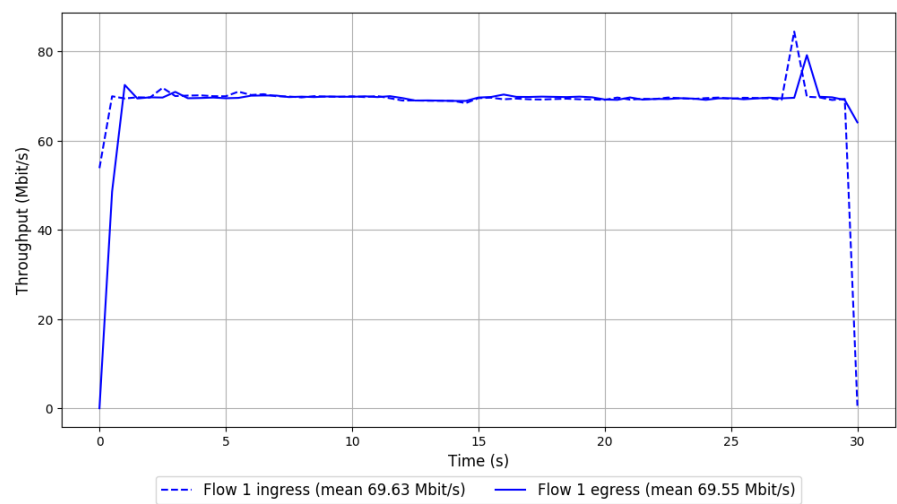
-- Flow 1:

Average throughput: 69.55 Mbit/s

95th percentile per-packet one-way delay: 39.470 ms

Loss rate: 0.32%

Run 6: Report of TaoVA-100x — Data Link



Run 7: Statistics of TaoVA-100x

Start at: 2018-05-22 12:05:50

End at: 2018-05-22 12:06:20

Local clock offset: 0.398 ms

Remote clock offset: 2.25 ms

Below is generated by plot.py at 2018-05-22 13:36:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.60 Mbit/s

95th percentile per-packet one-way delay: 40.791 ms

Loss rate: 0.12%

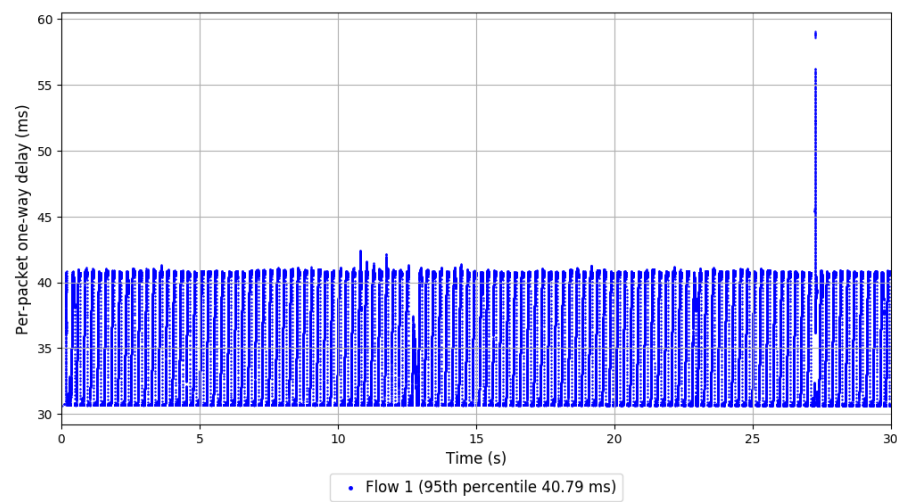
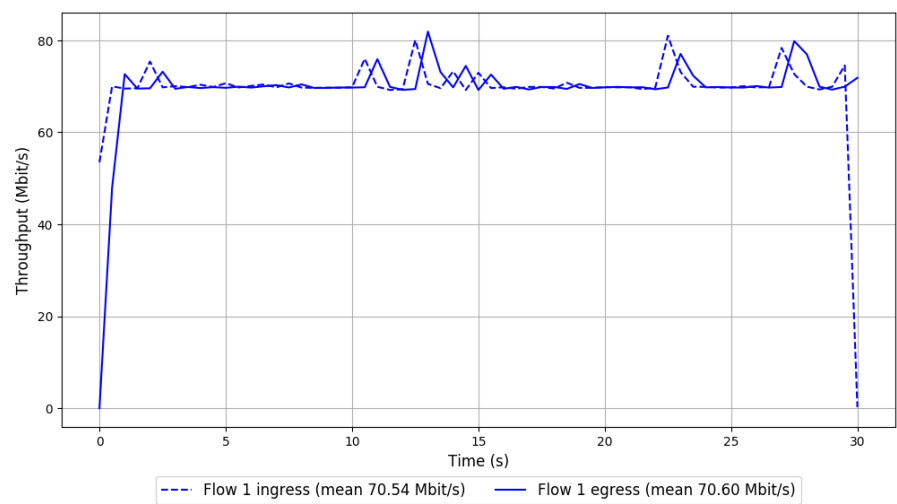
-- Flow 1:

Average throughput: 70.60 Mbit/s

95th percentile per-packet one-way delay: 40.791 ms

Loss rate: 0.12%

Run 7: Report of TaoVA-100x — Data Link



Run 8: Statistics of TaoVA-100x

Start at: 2018-05-22 12:28:06

End at: 2018-05-22 12:28:36

Local clock offset: 0.375 ms

Remote clock offset: 2.646 ms

Below is generated by plot.py at 2018-05-22 13:36:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.29 Mbit/s

95th percentile per-packet one-way delay: 35.813 ms

Loss rate: 0.20%

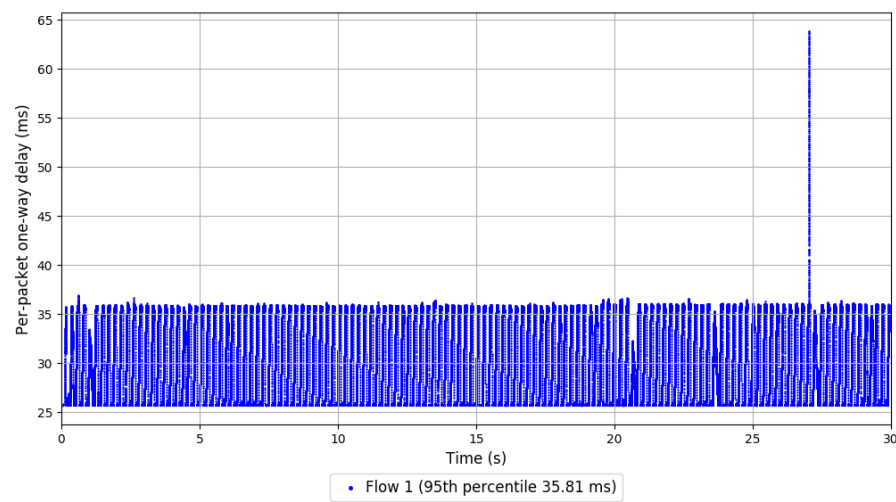
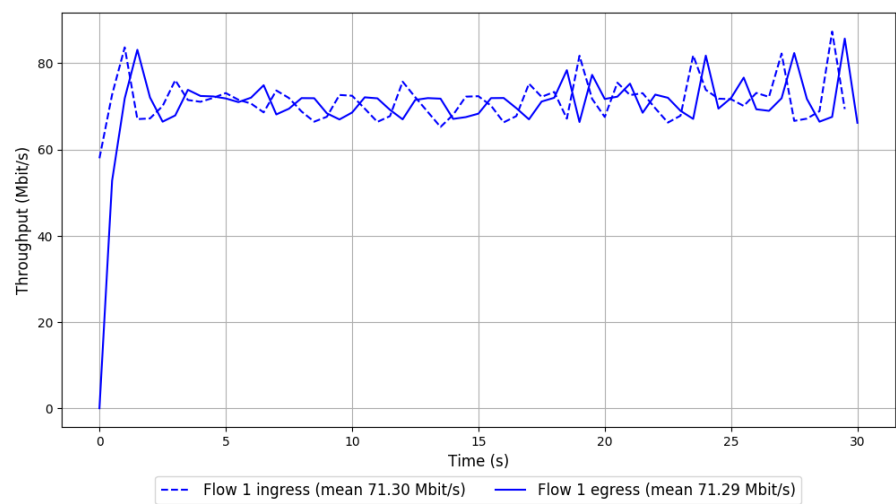
-- Flow 1:

Average throughput: 71.29 Mbit/s

95th percentile per-packet one-way delay: 35.813 ms

Loss rate: 0.20%

Run 8: Report of TaoVA-100x — Data Link



Run 9: Statistics of TaoVA-100x

Start at: 2018-05-22 12:49:04

End at: 2018-05-22 12:49:34

Local clock offset: 0.623 ms

Remote clock offset: 1.077 ms

Below is generated by plot.py at 2018-05-22 13:37:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.96 Mbit/s

95th percentile per-packet one-way delay: 38.774 ms

Loss rate: 0.18%

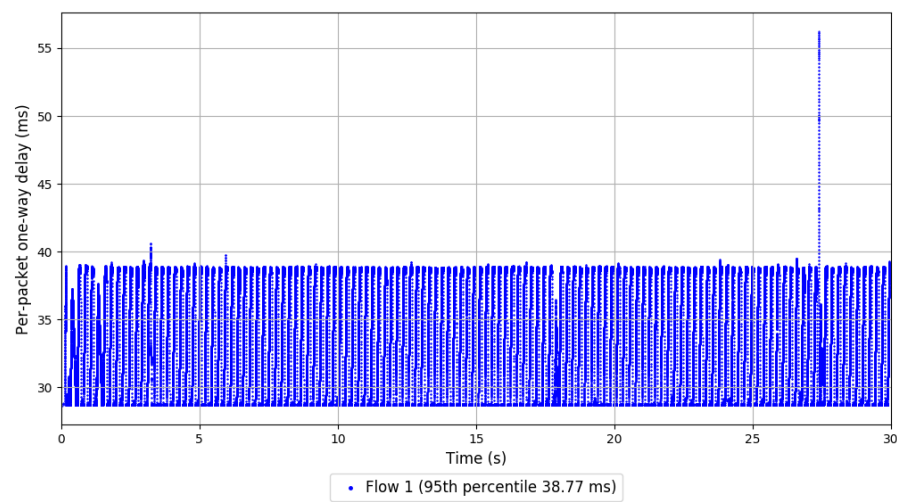
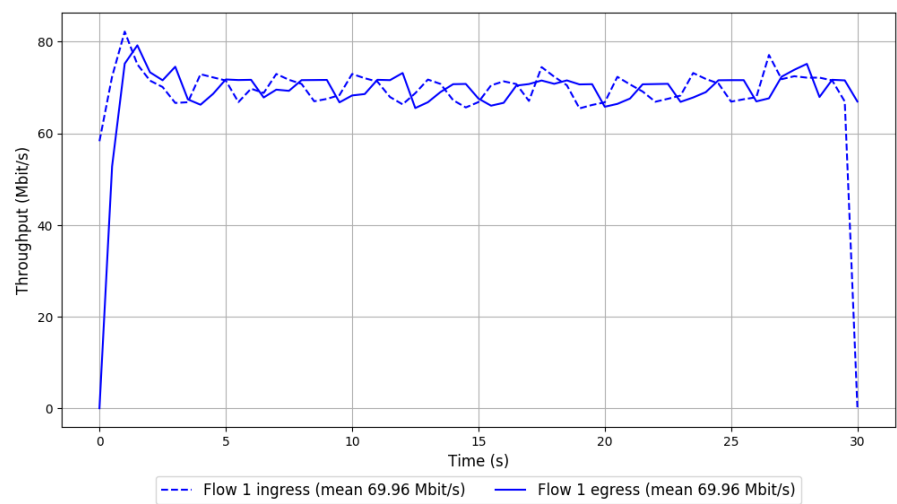
-- Flow 1:

Average throughput: 69.96 Mbit/s

95th percentile per-packet one-way delay: 38.774 ms

Loss rate: 0.18%

Run 9: Report of TaoVA-100x — Data Link



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-22 13:10:18

End at: 2018-05-22 13:10:48

Local clock offset: 0.916 ms

Remote clock offset: 0.298 ms

Below is generated by plot.py at 2018-05-22 13:37:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.46 Mbit/s

95th percentile per-packet one-way delay: 38.760 ms

Loss rate: 0.25%

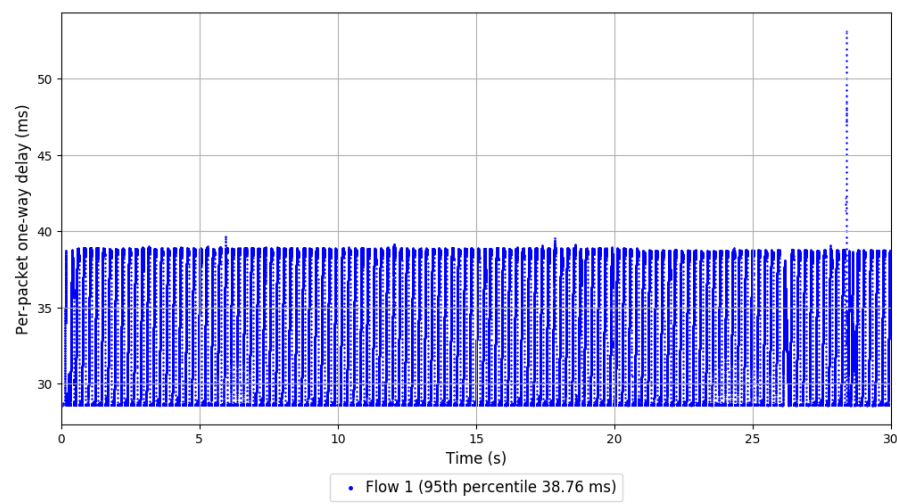
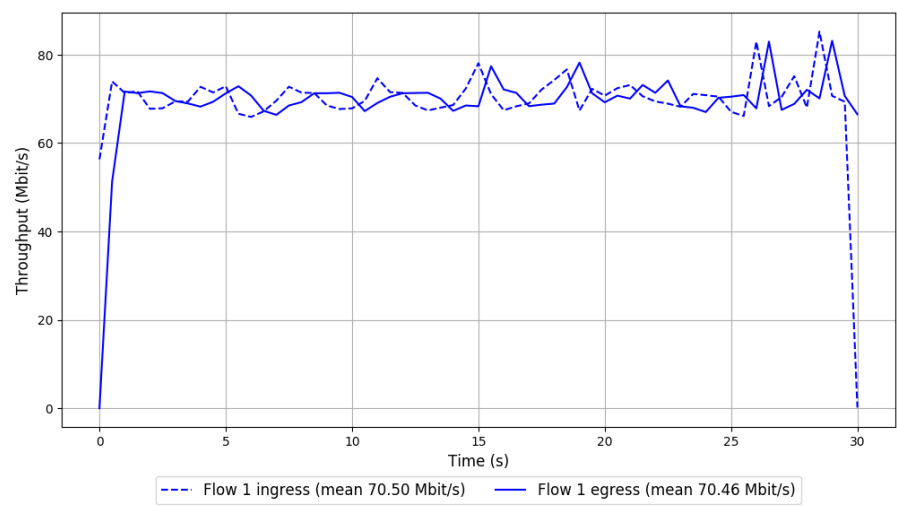
-- Flow 1:

Average throughput: 70.46 Mbit/s

95th percentile per-packet one-way delay: 38.760 ms

Loss rate: 0.25%

Run 10: Report of TaoVA-100x — Data Link



Run 1: Statistics of TCP Vegas

Start at: 2018-05-22 09:54:40

End at: 2018-05-22 09:55:10

Local clock offset: 0.411 ms

Remote clock offset: 1.274 ms

Below is generated by plot.py at 2018-05-22 13:37:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.46 Mbit/s

95th percentile per-packet one-way delay: 34.201 ms

Loss rate: 0.22%

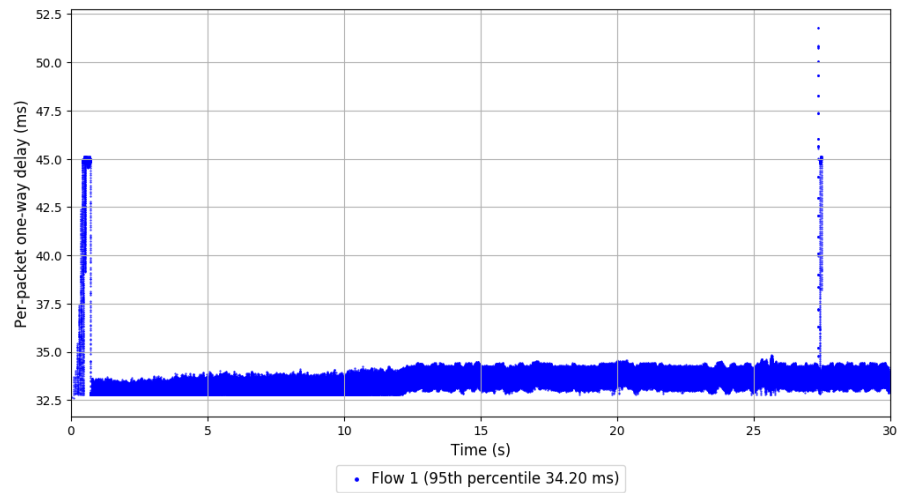
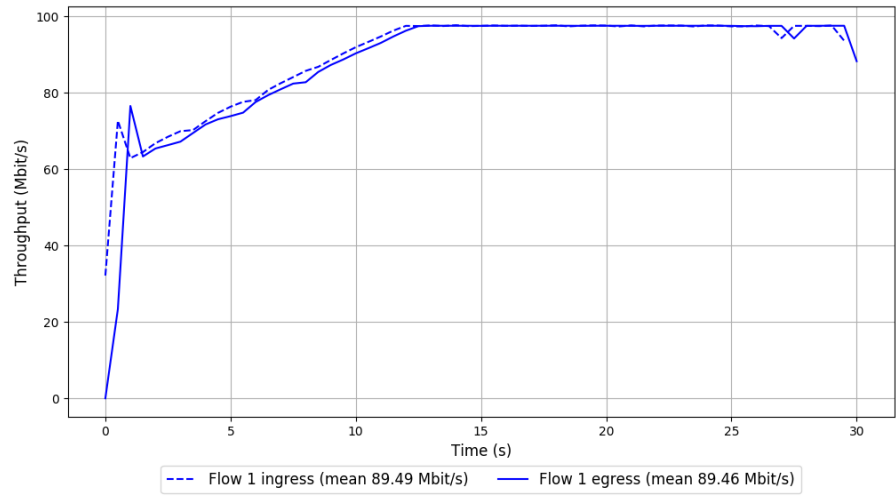
-- Flow 1:

Average throughput: 89.46 Mbit/s

95th percentile per-packet one-way delay: 34.201 ms

Loss rate: 0.22%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-05-22 10:15:25

End at: 2018-05-22 10:15:55

Local clock offset: 1.498 ms

Remote clock offset: 3.466 ms

Below is generated by plot.py at 2018-05-22 13:37:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.20 Mbit/s

95th percentile per-packet one-way delay: 27.319 ms

Loss rate: 0.20%

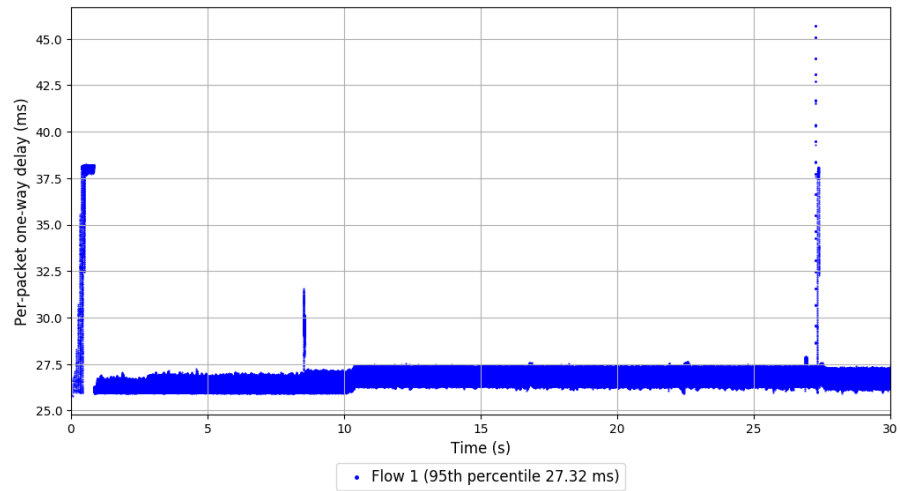
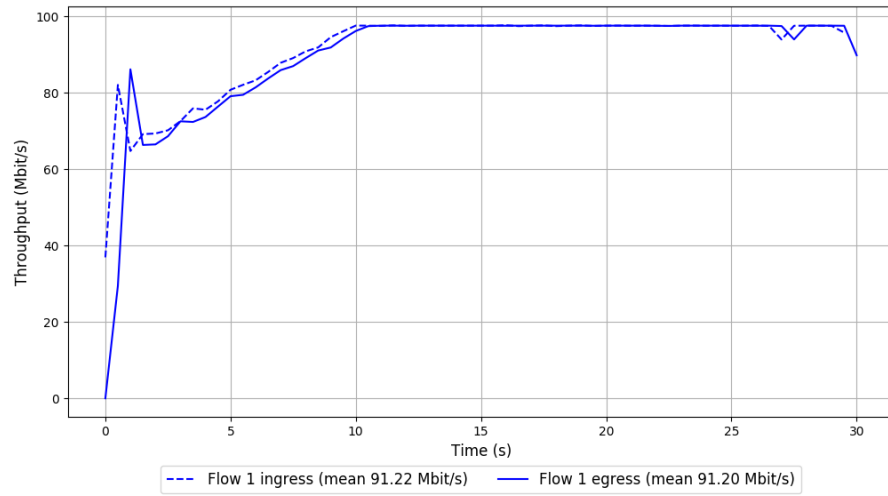
-- Flow 1:

Average throughput: 91.20 Mbit/s

95th percentile per-packet one-way delay: 27.319 ms

Loss rate: 0.20%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-05-22 10:36:10

End at: 2018-05-22 10:36:40

Local clock offset: 1.073 ms

Remote clock offset: 3.048 ms

Below is generated by plot.py at 2018-05-22 13:37:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.76 Mbit/s

95th percentile per-packet one-way delay: 28.004 ms

Loss rate: 0.20%

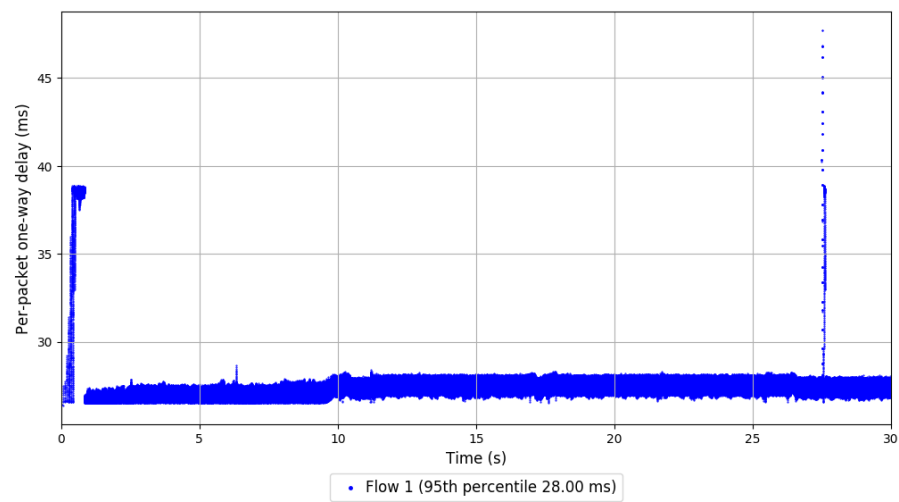
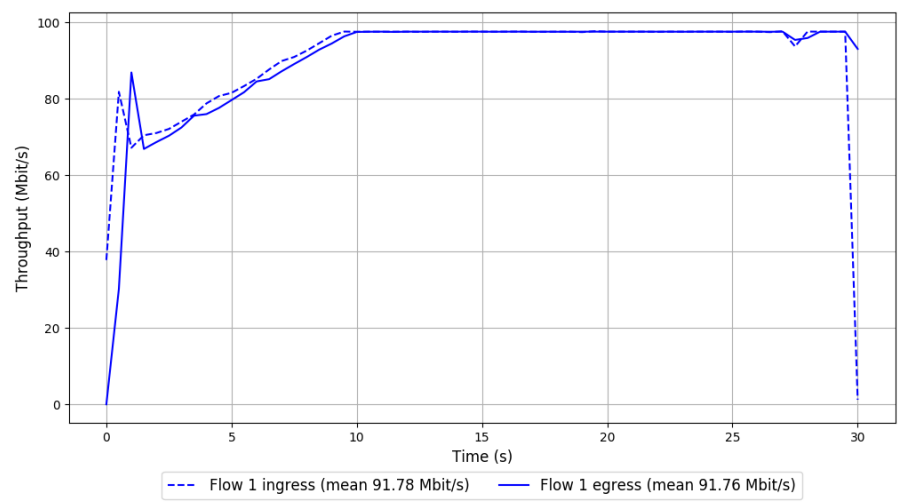
-- Flow 1:

Average throughput: 91.76 Mbit/s

95th percentile per-packet one-way delay: 28.004 ms

Loss rate: 0.20%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-05-22 10:56:55

End at: 2018-05-22 10:57:25

Local clock offset: 0.775 ms

Remote clock offset: 3.277 ms

Below is generated by plot.py at 2018-05-22 13:37:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.82 Mbit/s

95th percentile per-packet one-way delay: 26.759 ms

Loss rate: 0.20%

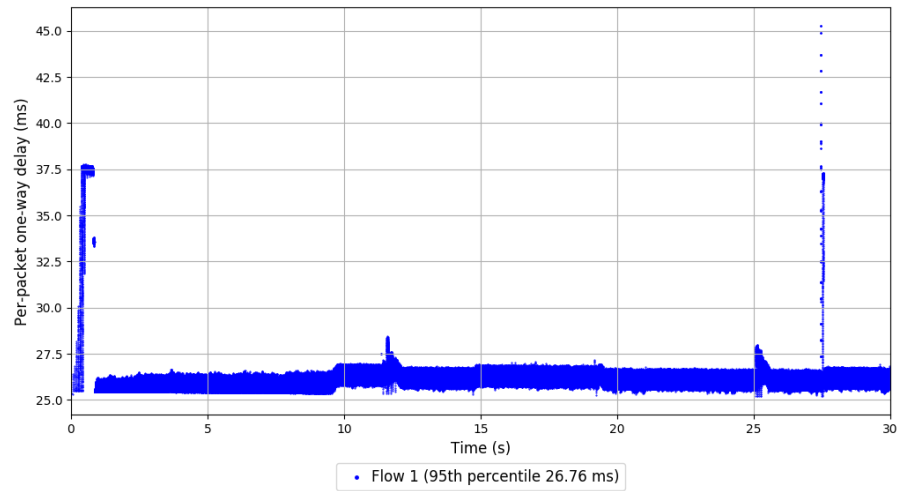
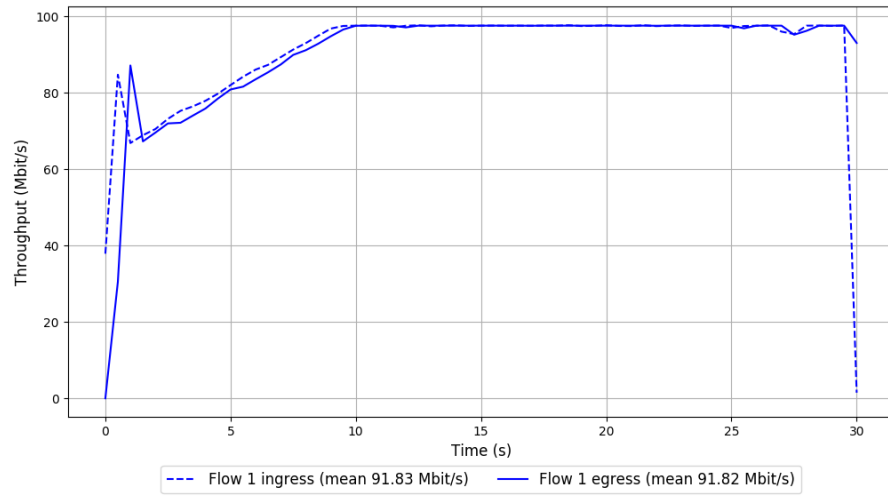
-- Flow 1:

Average throughput: 91.82 Mbit/s

95th percentile per-packet one-way delay: 26.759 ms

Loss rate: 0.20%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-05-22 11:17:41

End at: 2018-05-22 11:18:11

Local clock offset: 6.665 ms

Remote clock offset: 1.028 ms

Below is generated by plot.py at 2018-05-22 13:37:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.82 Mbit/s

95th percentile per-packet one-way delay: 29.690 ms

Loss rate: 0.20%

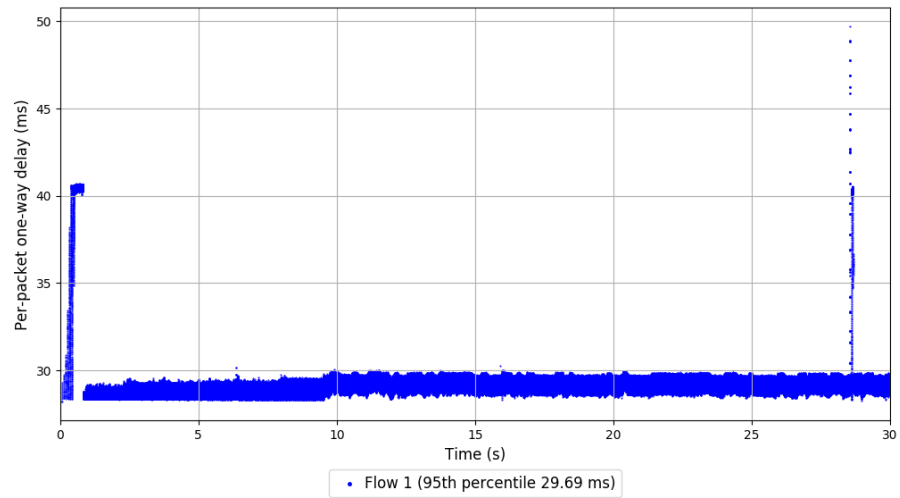
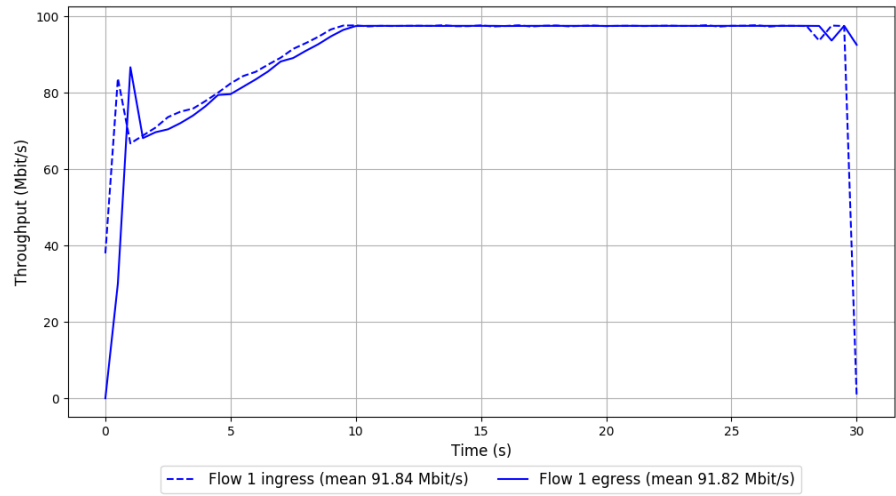
-- Flow 1:

Average throughput: 91.82 Mbit/s

95th percentile per-packet one-way delay: 29.690 ms

Loss rate: 0.20%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-05-22 11:38:28

End at: 2018-05-22 11:38:58

Local clock offset: 2.152 ms

Remote clock offset: 2.548 ms

Below is generated by plot.py at 2018-05-22 13:37:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.52 Mbit/s

95th percentile per-packet one-way delay: 33.116 ms

Loss rate: 0.23%

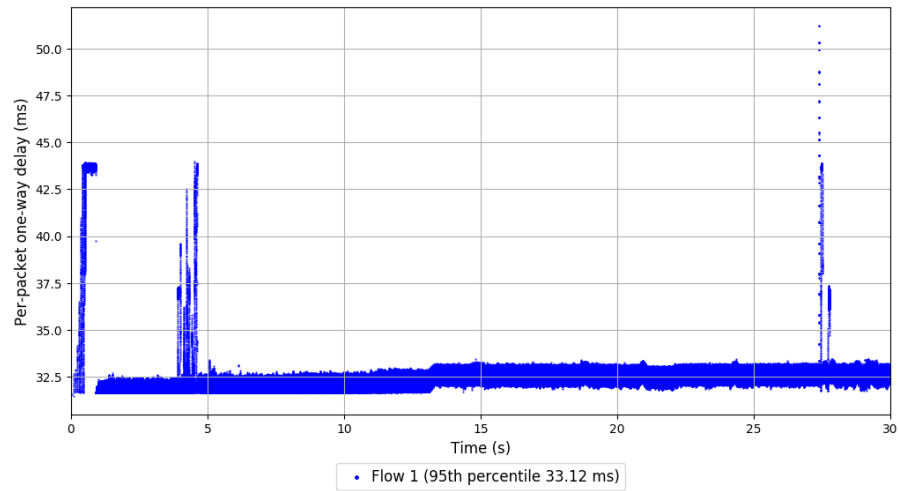
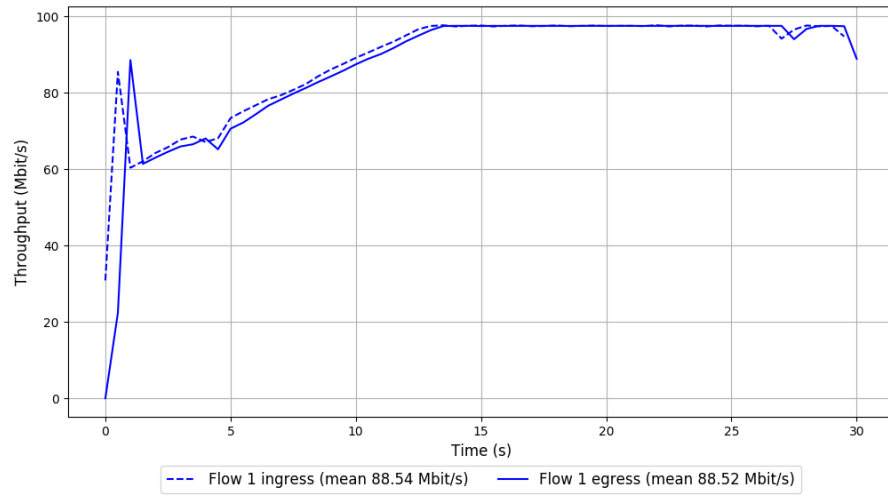
-- Flow 1:

Average throughput: 88.52 Mbit/s

95th percentile per-packet one-way delay: 33.116 ms

Loss rate: 0.23%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-05-22 11:59:19

End at: 2018-05-22 11:59:49

Local clock offset: 0.255 ms

Remote clock offset: 2.402 ms

Below is generated by plot.py at 2018-05-22 13:38:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.49 Mbit/s

95th percentile per-packet one-way delay: 38.368 ms

Loss rate: 0.21%

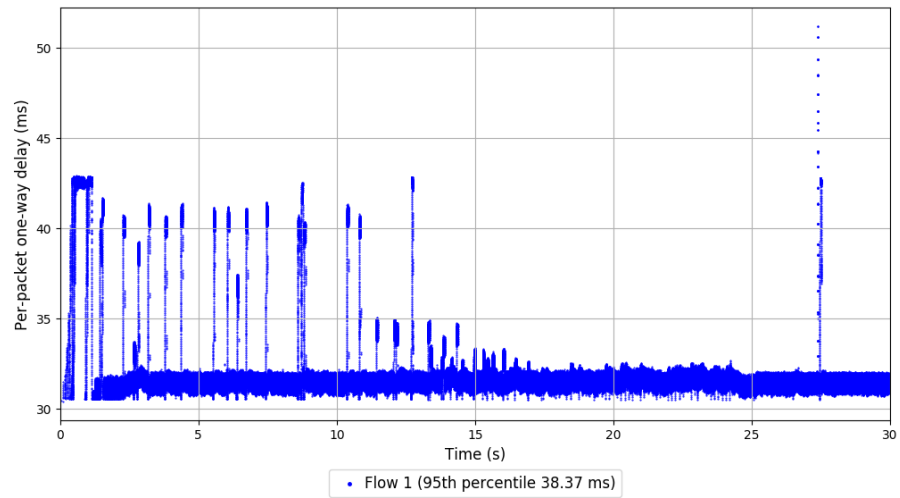
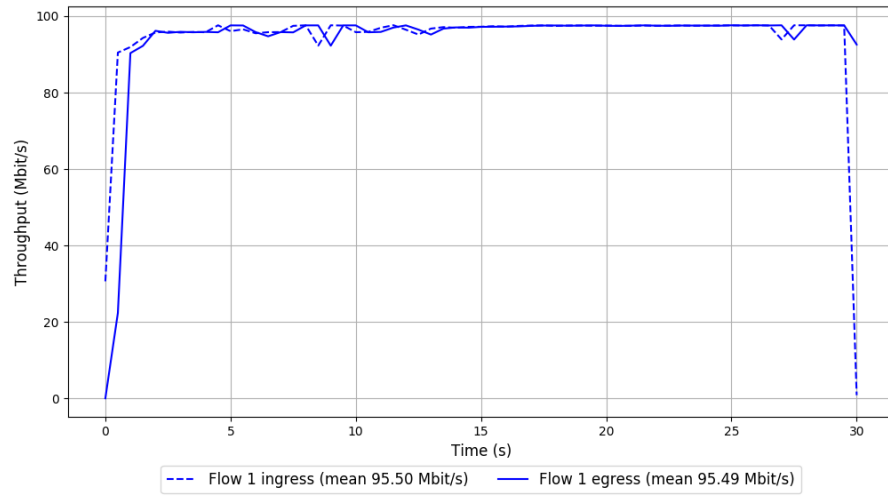
-- Flow 1:

Average throughput: 95.49 Mbit/s

95th percentile per-packet one-way delay: 38.368 ms

Loss rate: 0.21%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-05-22 12:21:29

End at: 2018-05-22 12:21:59

Local clock offset: 0.318 ms

Remote clock offset: 1.968 ms

Below is generated by plot.py at 2018-05-22 13:38:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.09 Mbit/s

95th percentile per-packet one-way delay: 32.058 ms

Loss rate: 0.22%

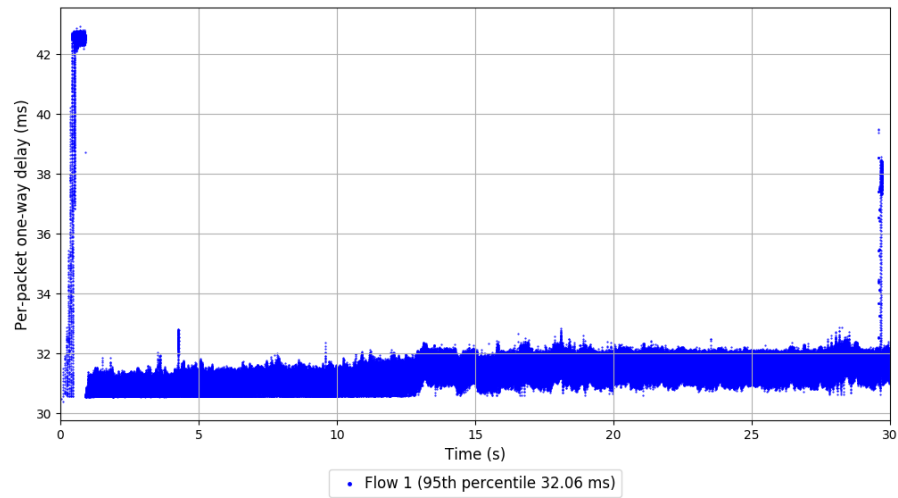
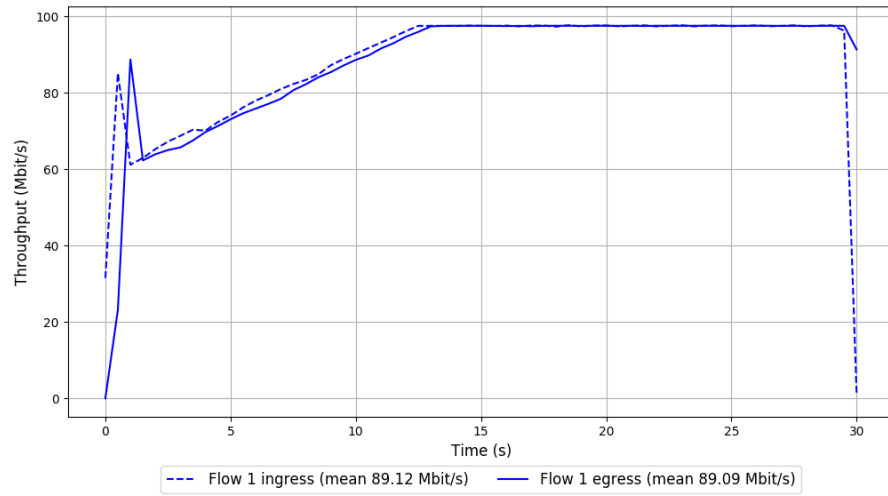
-- Flow 1:

Average throughput: 89.09 Mbit/s

95th percentile per-packet one-way delay: 32.058 ms

Loss rate: 0.22%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-05-22 12:42:28

End at: 2018-05-22 12:42:58

Local clock offset: 0.559 ms

Remote clock offset: 3.135 ms

Below is generated by plot.py at 2018-05-22 13:38:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.13 Mbit/s

95th percentile per-packet one-way delay: 27.821 ms

Loss rate: 0.20%

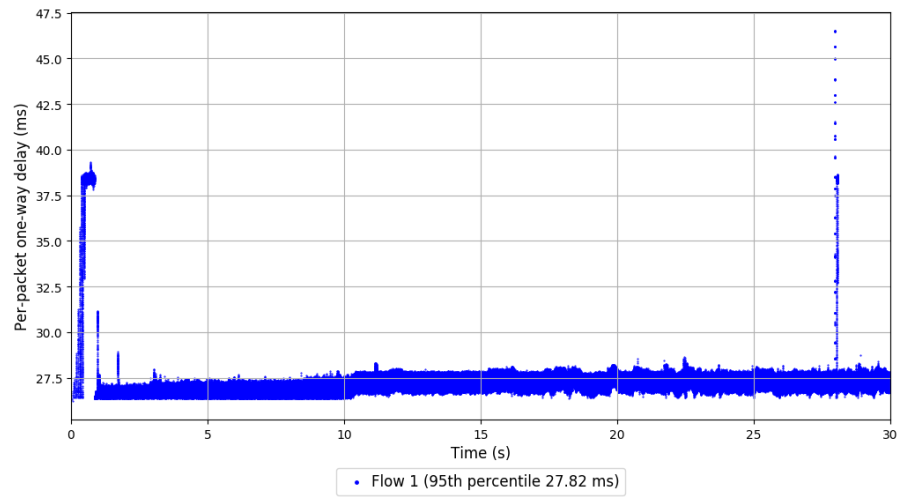
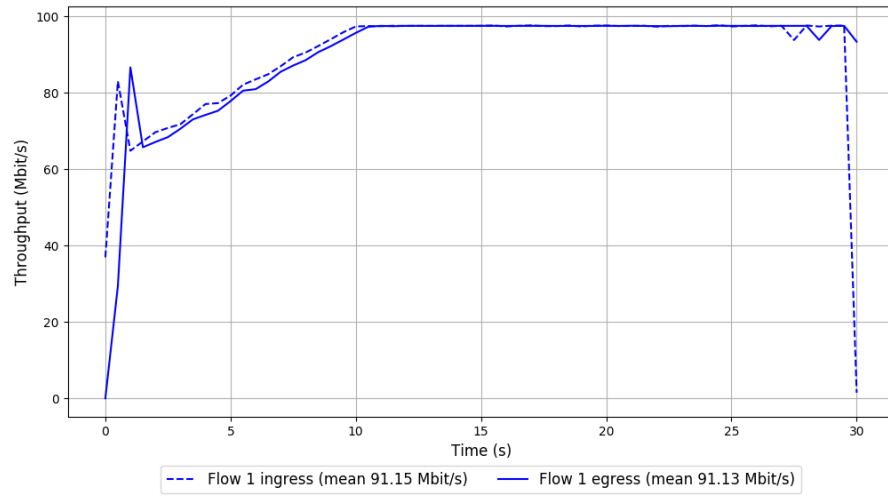
-- Flow 1:

Average throughput: 91.13 Mbit/s

95th percentile per-packet one-way delay: 27.821 ms

Loss rate: 0.20%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-05-22 13:03:49

End at: 2018-05-22 13:04:19

Local clock offset: 0.711 ms

Remote clock offset: 2.668 ms

Below is generated by plot.py at 2018-05-22 13:38:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.32 Mbit/s

95th percentile per-packet one-way delay: 27.951 ms

Loss rate: 0.20%

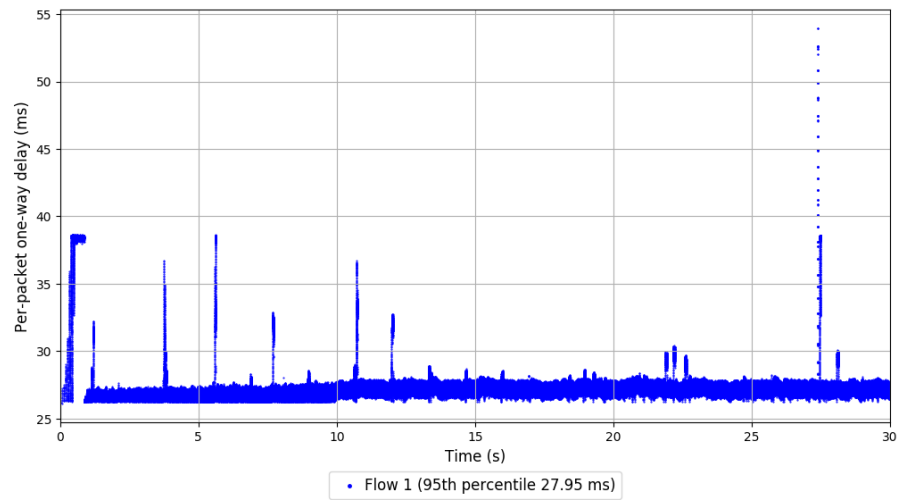
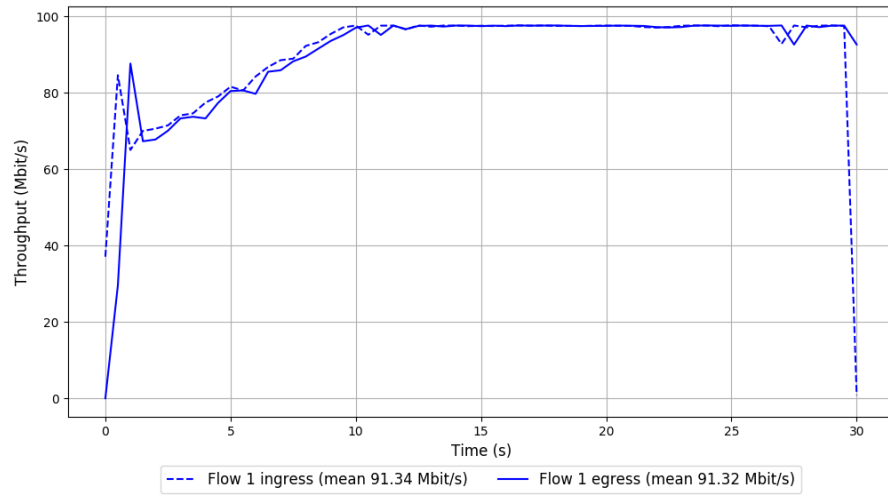
-- Flow 1:

Average throughput: 91.32 Mbit/s

95th percentile per-packet one-way delay: 27.951 ms

Loss rate: 0.20%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-22 10:10:13

End at: 2018-05-22 10:10:43

Local clock offset: 1.315 ms

Remote clock offset: 1.099 ms

Below is generated by plot.py at 2018-05-22 13:38:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 28.001 ms

Loss rate: 0.00%

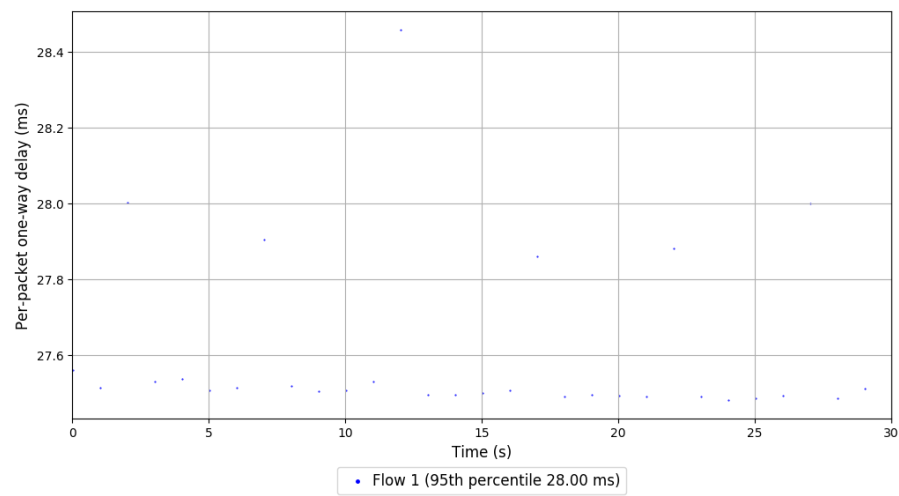
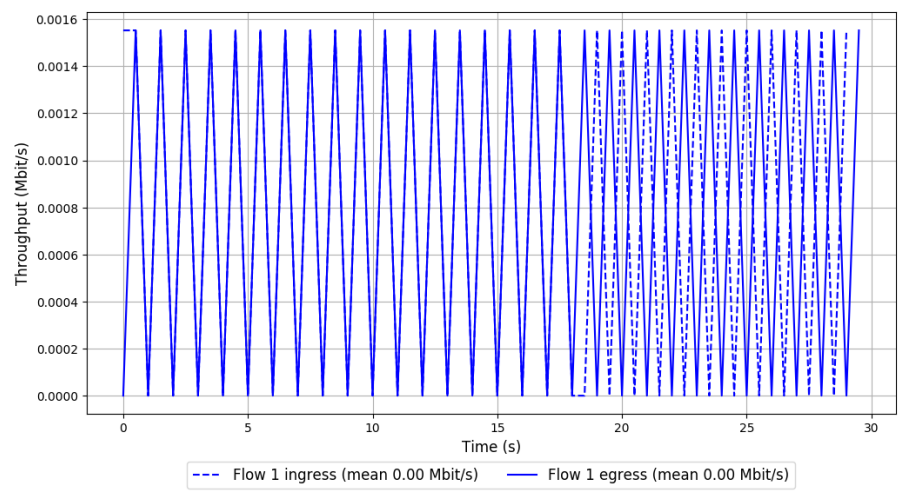
-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 28.001 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-05-22 10:30:58

End at: 2018-05-22 10:31:28

Local clock offset: 1.313 ms

Remote clock offset: 3.508 ms

Below is generated by plot.py at 2018-05-22 13:38:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 31.429 ms

Loss rate: 0.00%

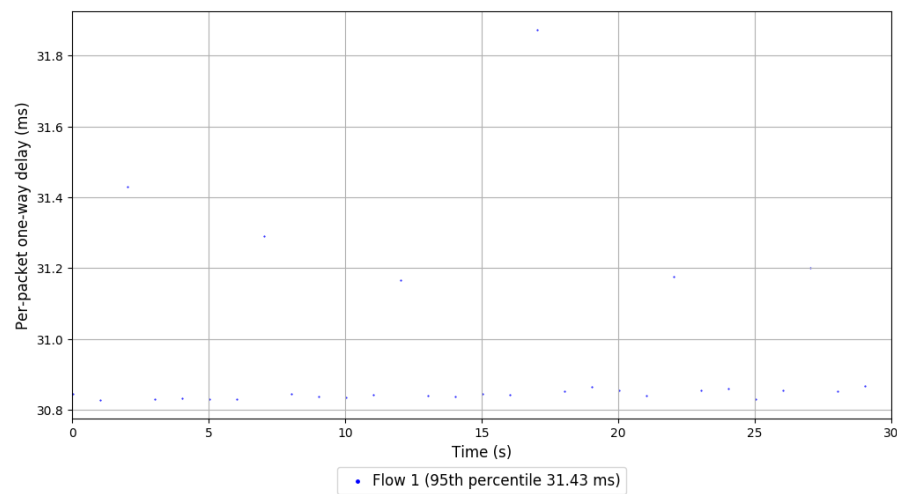
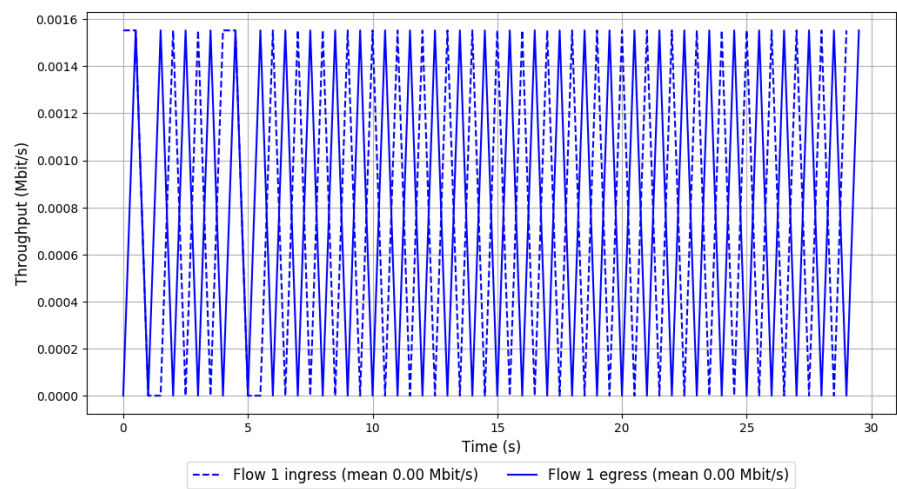
-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 31.429 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-05-22 10:51:43

End at: 2018-05-22 10:52:13

Local clock offset: 0.673 ms

Remote clock offset: 1.039 ms

Below is generated by plot.py at 2018-05-22 13:38:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 33.925 ms

Loss rate: 0.00%

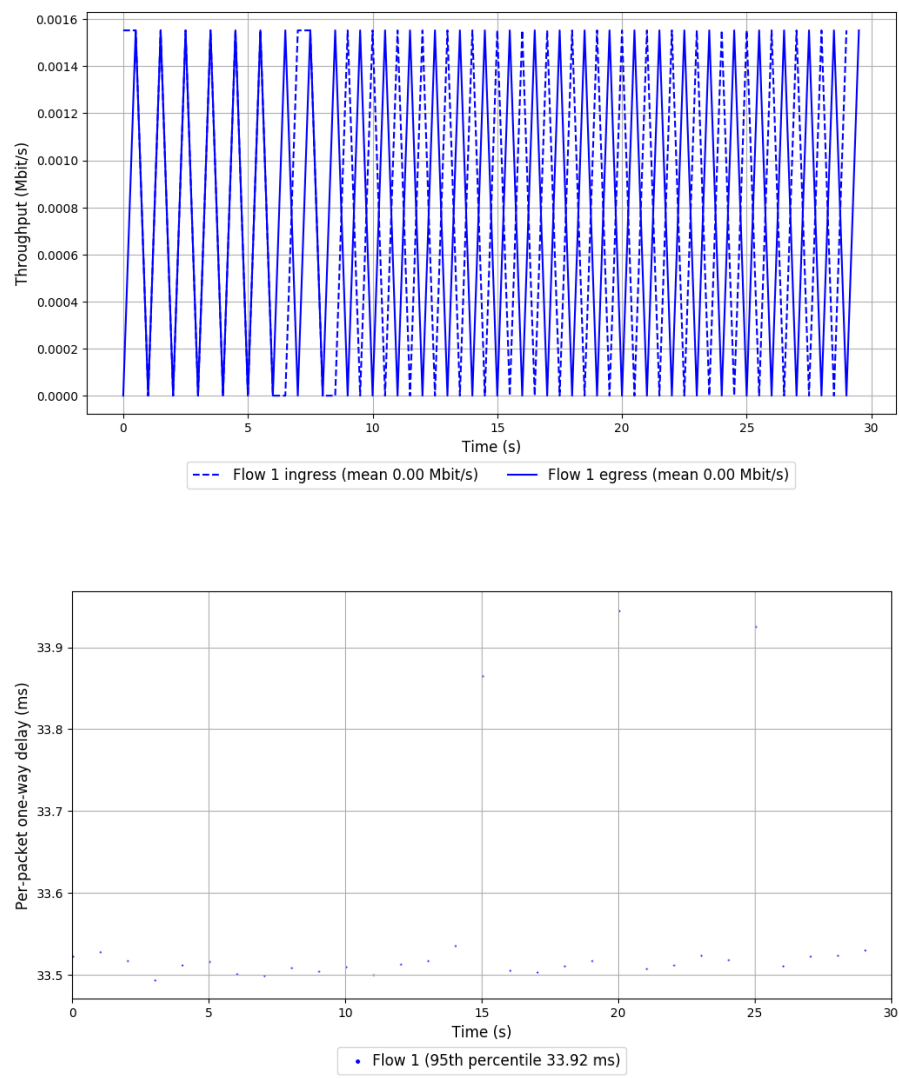
-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 33.925 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-05-22 11:12:30

End at: 2018-05-22 11:13:00

Local clock offset: 6.052 ms

Remote clock offset: 1.412 ms

Below is generated by plot.py at 2018-05-22 13:38:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 28.046 ms

Loss rate: 0.00%

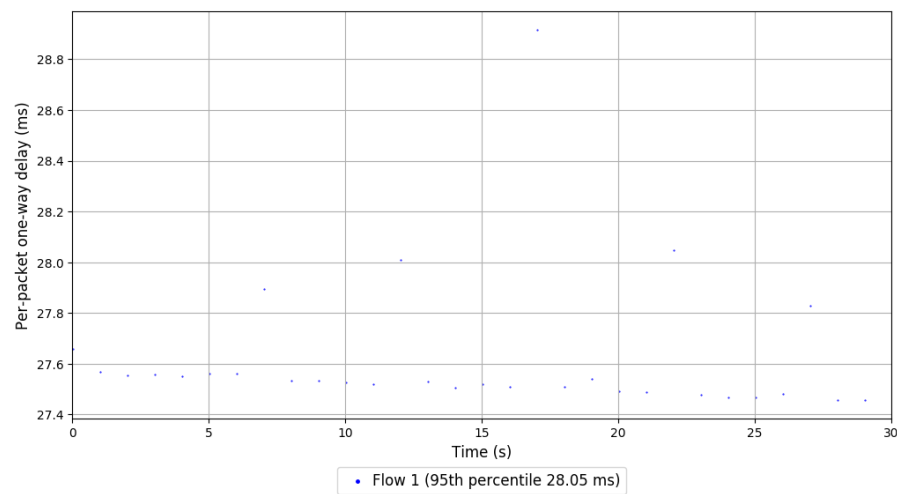
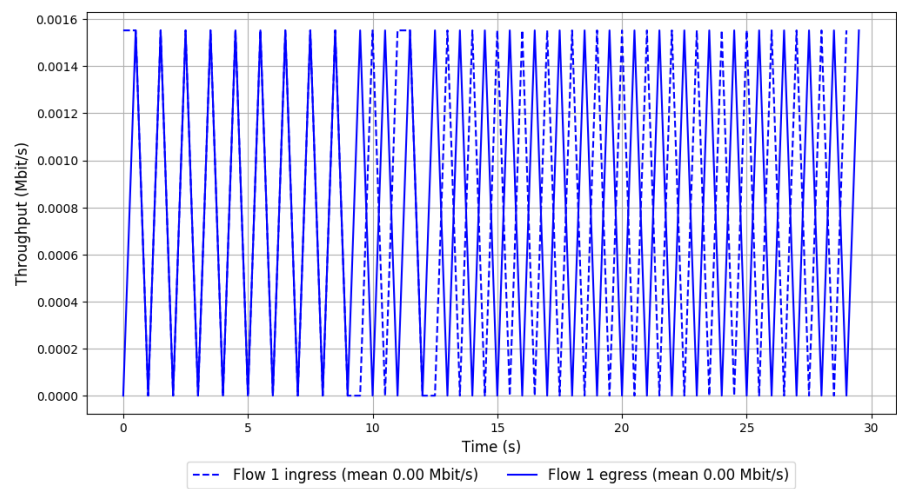
-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 28.046 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-05-22 11:33:16

End at: 2018-05-22 11:33:46

Local clock offset: 3.761 ms

Remote clock offset: 2.708 ms

Below is generated by plot.py at 2018-05-22 13:38:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 31.575 ms

Loss rate: 0.00%

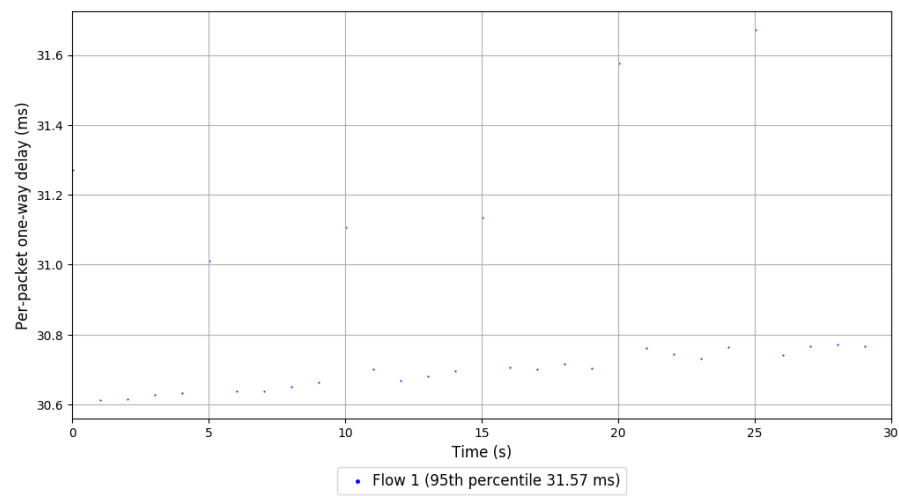
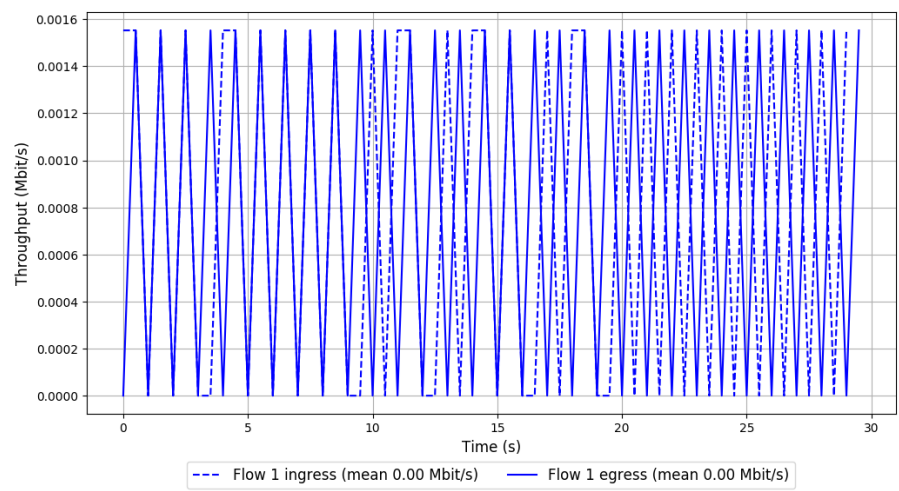
-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 31.575 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-05-22 11:54:06

End at: 2018-05-22 11:54:36

Local clock offset: 0.227 ms

Remote clock offset: 0.394 ms

Below is generated by plot.py at 2018-05-22 13:38:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 33.984 ms

Loss rate: 0.00%

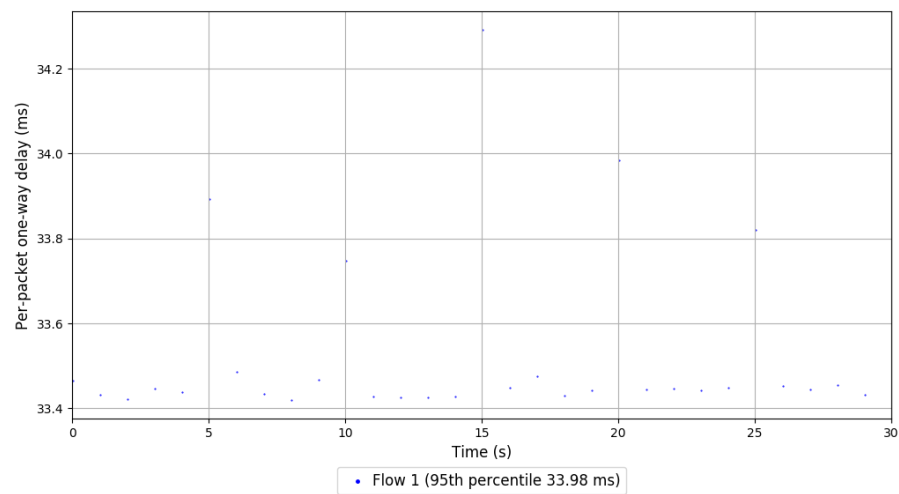
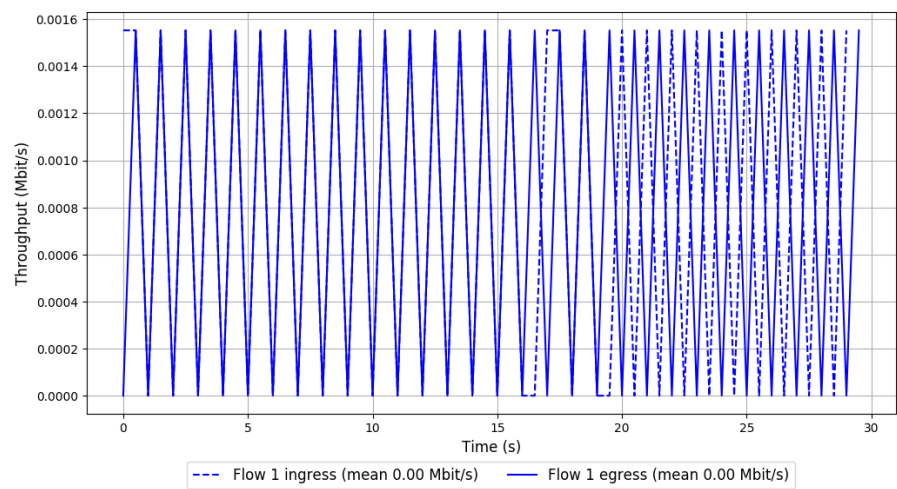
-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 33.984 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-05-22 12:15:34

End at: 2018-05-22 12:16:04

Local clock offset: 0.493 ms

Remote clock offset: 2.033 ms

Below is generated by plot.py at 2018-05-22 13:38:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 30.810 ms

Loss rate: 0.00%

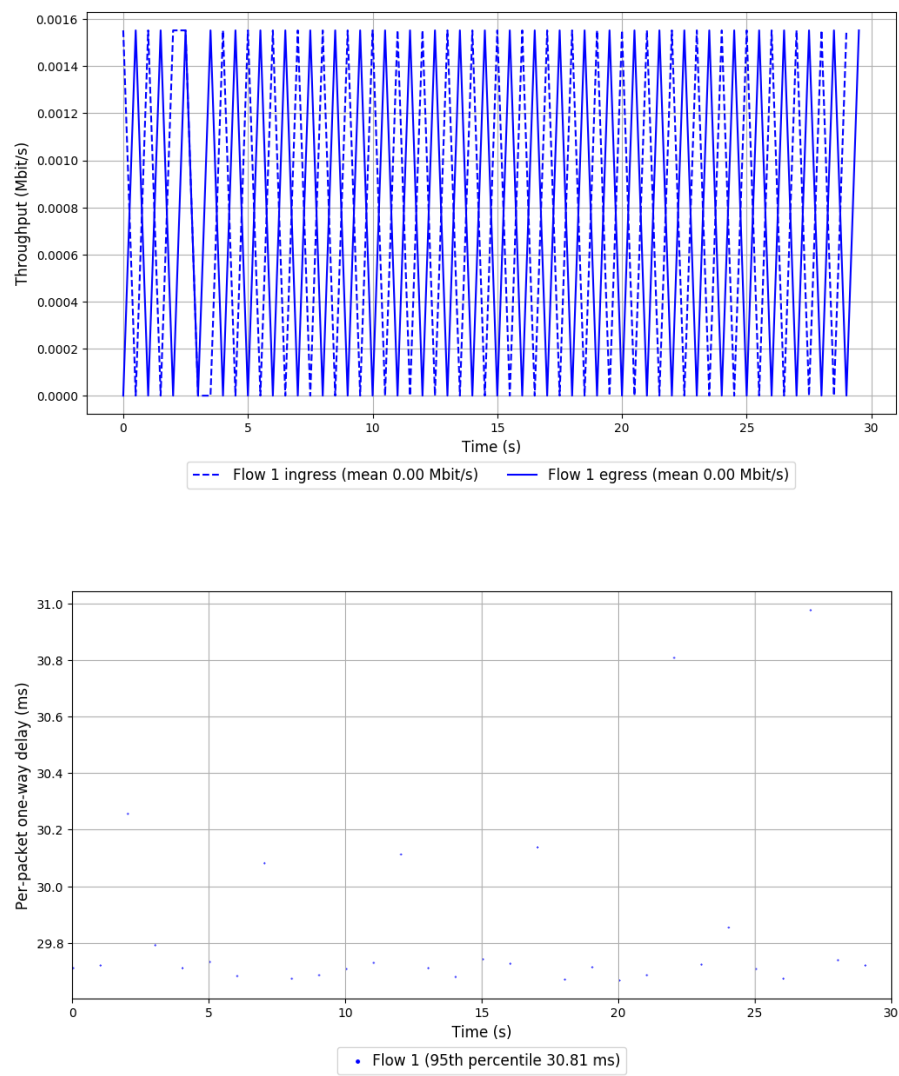
-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 30.810 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-05-22 12:37:14

End at: 2018-05-22 12:37:44

Local clock offset: 0.538 ms

Remote clock offset: 1.034 ms

Below is generated by plot.py at 2018-05-22 13:38:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 33.075 ms

Loss rate: 0.00%

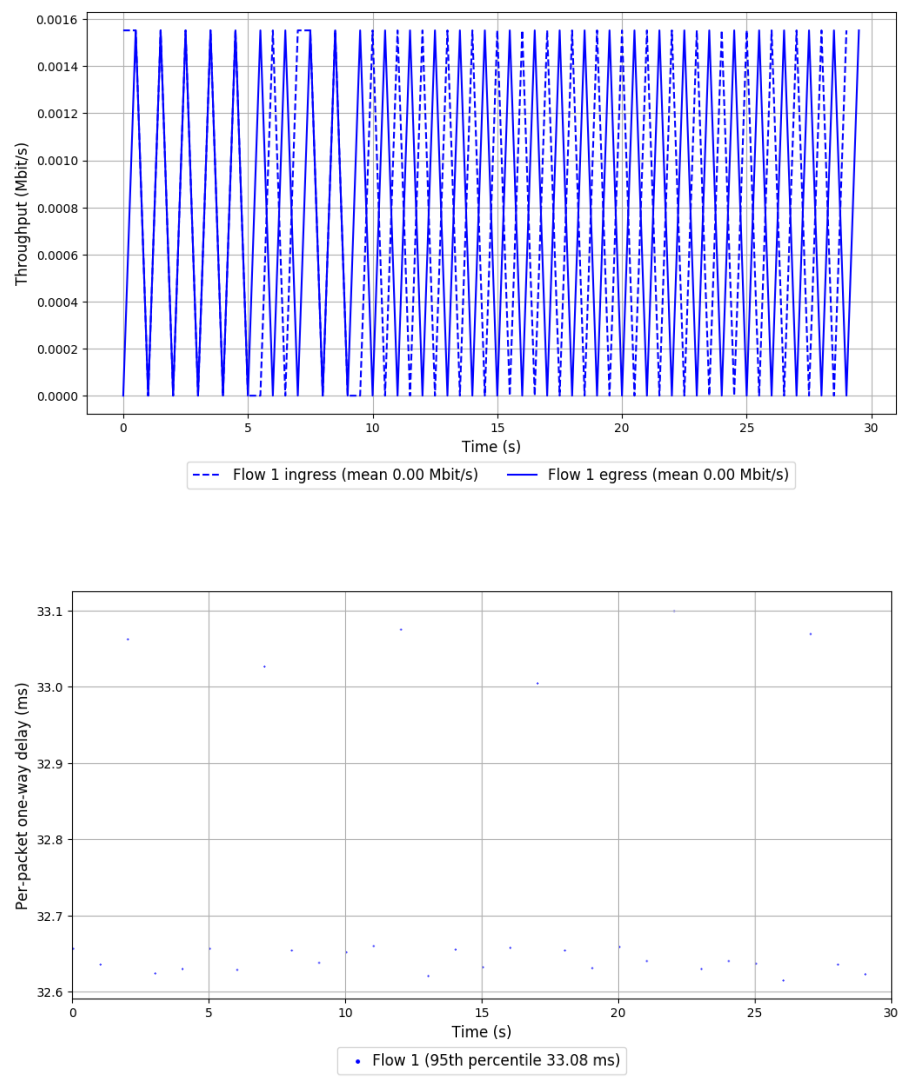
-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 33.075 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-05-22 12:58:31

End at: 2018-05-22 12:59:01

Local clock offset: 0.557 ms

Remote clock offset: 2.975 ms

Below is generated by plot.py at 2018-05-22 13:38:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 31.731 ms

Loss rate: 0.00%

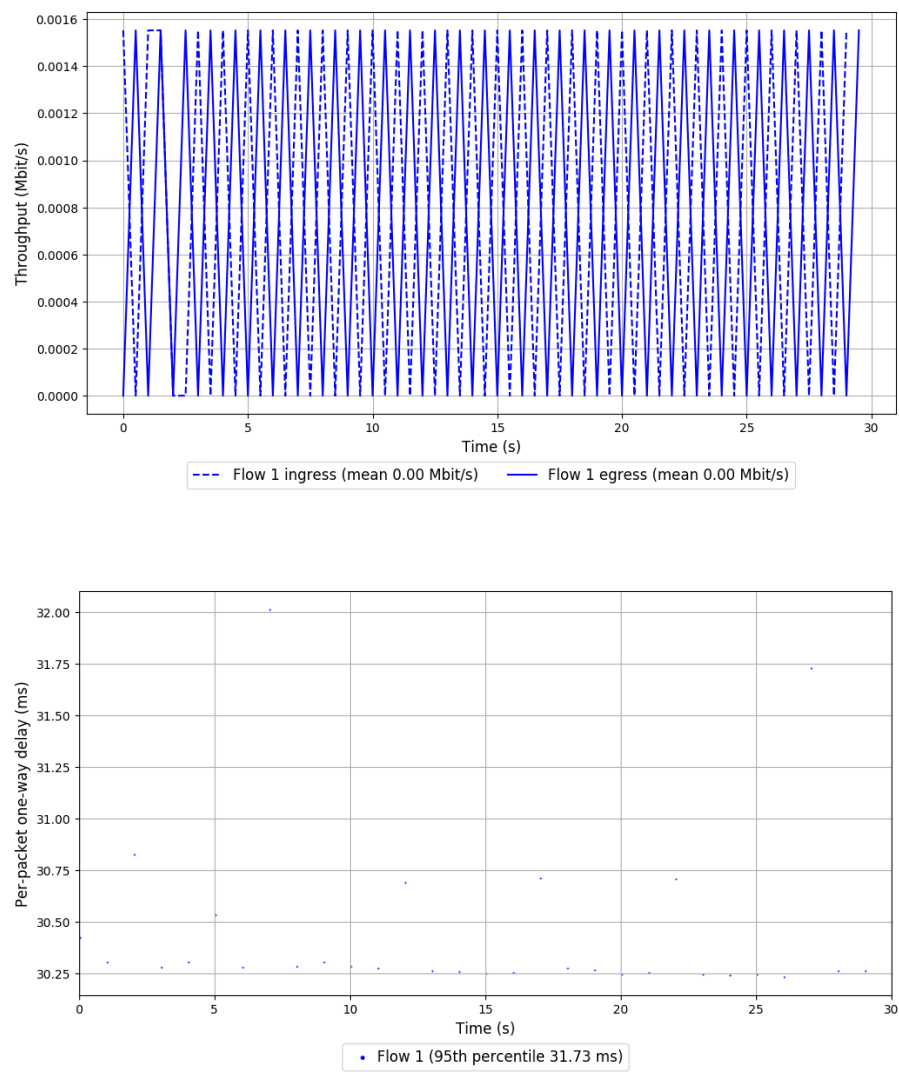
-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 31.731 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-05-22 13:19:21

End at: 2018-05-22 13:19:51

Local clock offset: 0.946 ms

Remote clock offset: 2.699 ms

Below is generated by plot.py at 2018-05-22 13:38:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 25.687 ms

Loss rate: 0.00%

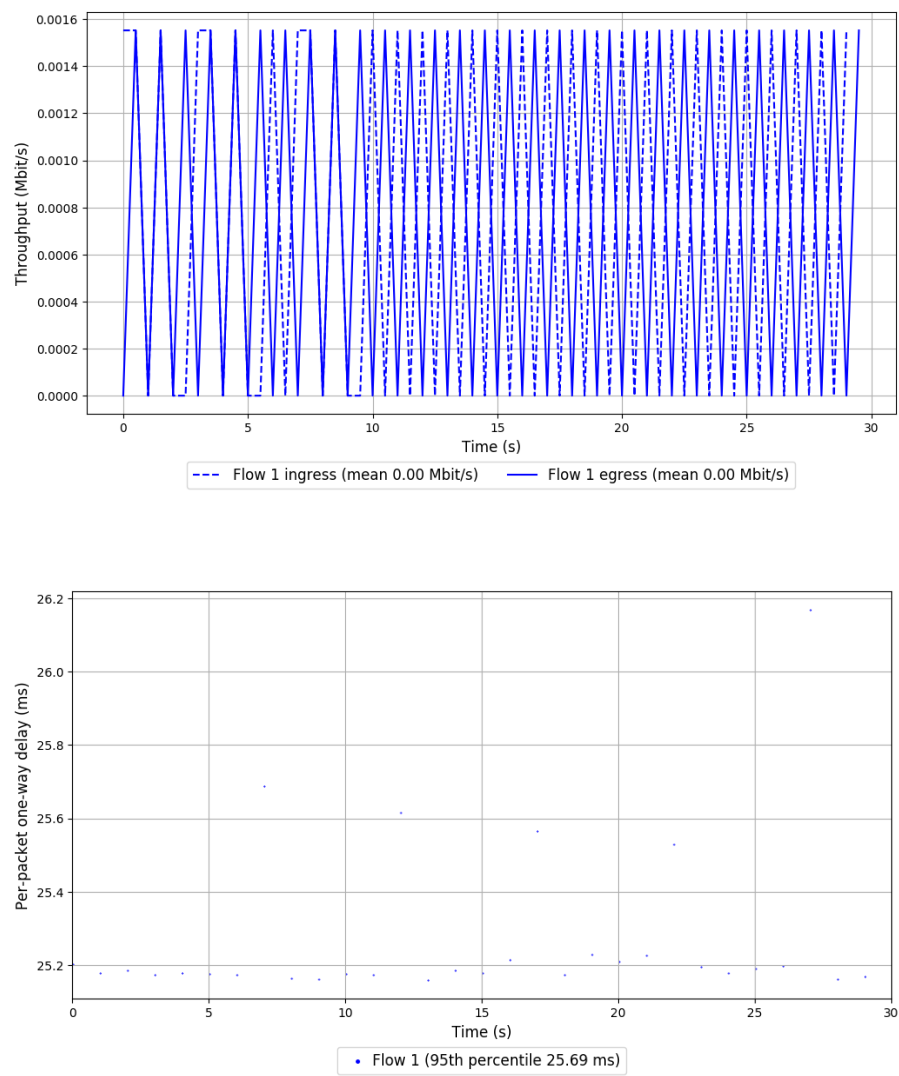
-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 25.687 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-05-22 10:02:29

End at: 2018-05-22 10:02:59

Local clock offset: 0.945 ms

Remote clock offset: 3.963 ms

Below is generated by plot.py at 2018-05-22 13:38:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.93 Mbit/s

95th percentile per-packet one-way delay: 30.410 ms

Loss rate: 0.22%

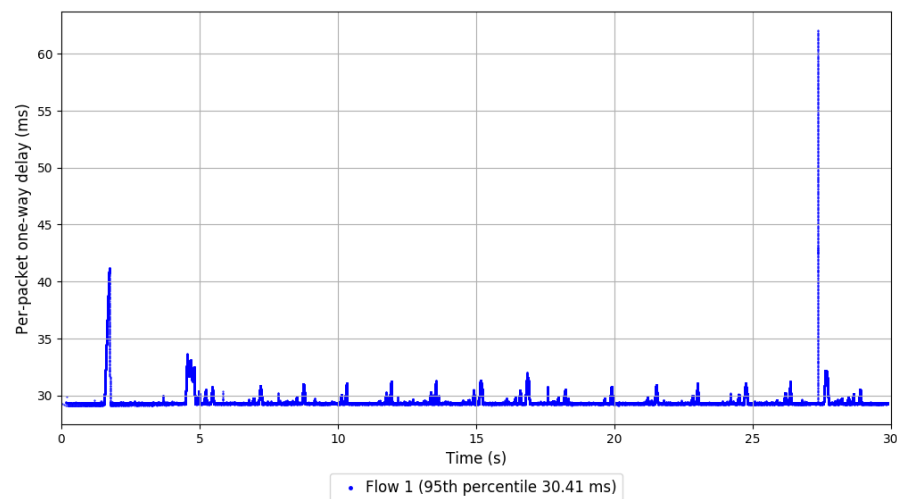
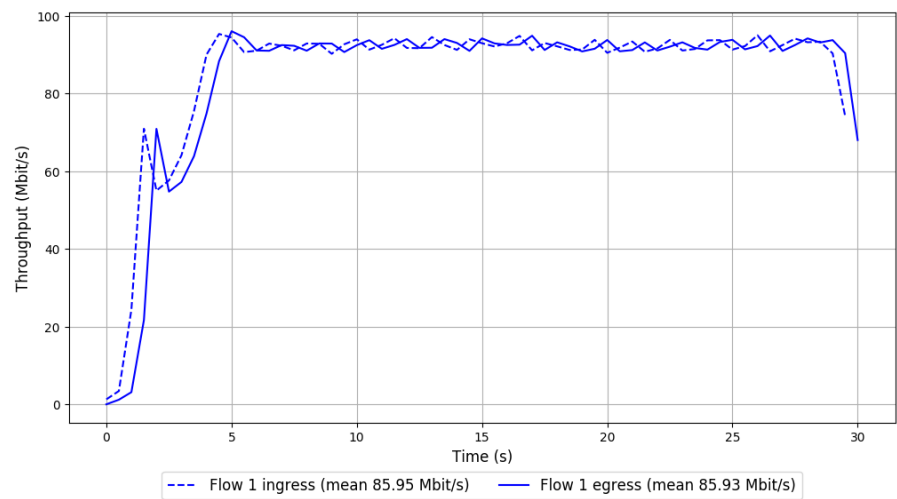
-- Flow 1:

Average throughput: 85.93 Mbit/s

95th percentile per-packet one-way delay: 30.410 ms

Loss rate: 0.22%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-05-22 10:23:13

End at: 2018-05-22 10:23:43

Local clock offset: 1.58 ms

Remote clock offset: 3.408 ms

Below is generated by plot.py at 2018-05-22 13:38:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.23 Mbit/s

95th percentile per-packet one-way delay: 31.709 ms

Loss rate: 0.22%

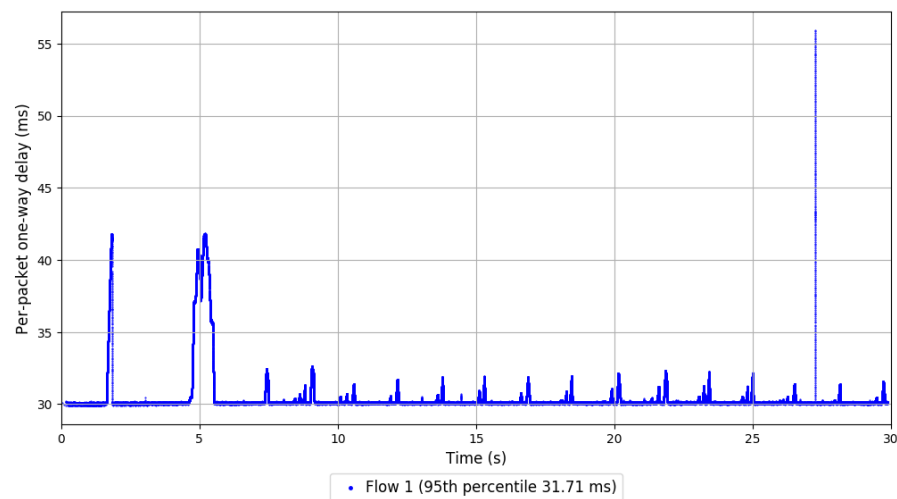
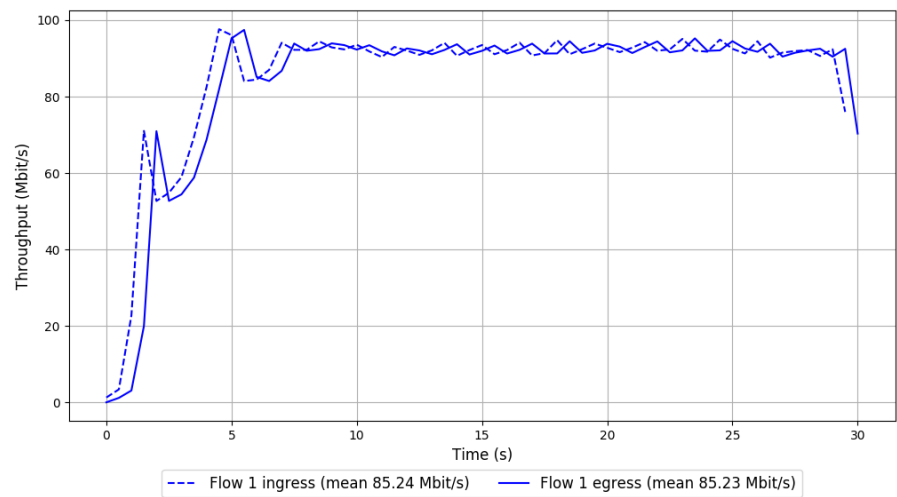
-- Flow 1:

Average throughput: 85.23 Mbit/s

95th percentile per-packet one-way delay: 31.709 ms

Loss rate: 0.22%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-05-22 10:43:58

End at: 2018-05-22 10:44:28

Local clock offset: 0.745 ms

Remote clock offset: 3.118 ms

Below is generated by plot.py at 2018-05-22 13:38:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.88 Mbit/s

95th percentile per-packet one-way delay: 30.731 ms

Loss rate: 0.21%

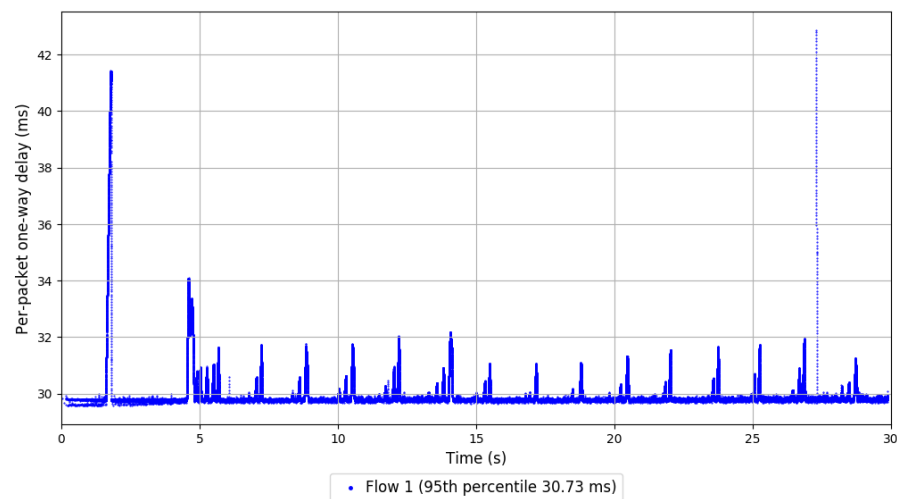
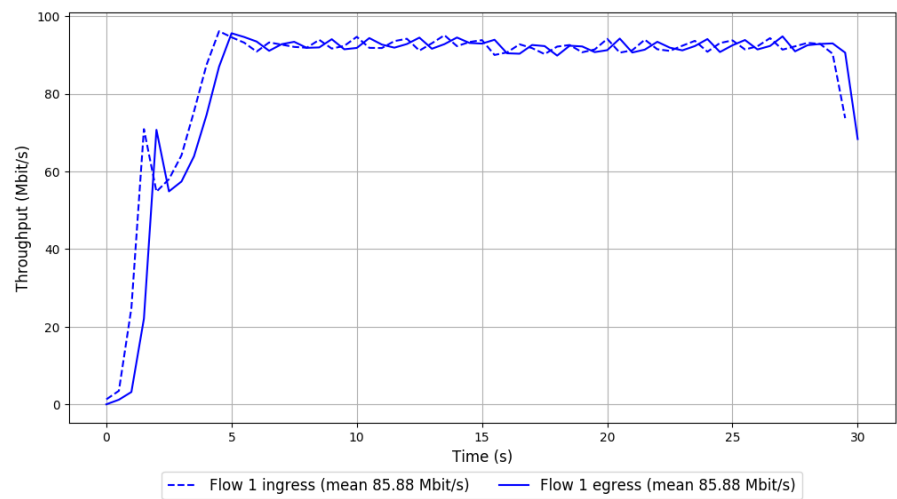
-- Flow 1:

Average throughput: 85.88 Mbit/s

95th percentile per-packet one-way delay: 30.731 ms

Loss rate: 0.21%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-05-22 11:04:44

End at: 2018-05-22 11:05:14

Local clock offset: 4.362 ms

Remote clock offset: 3.311 ms

Below is generated by plot.py at 2018-05-22 13:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.64 Mbit/s

95th percentile per-packet one-way delay: 27.093 ms

Loss rate: 0.22%

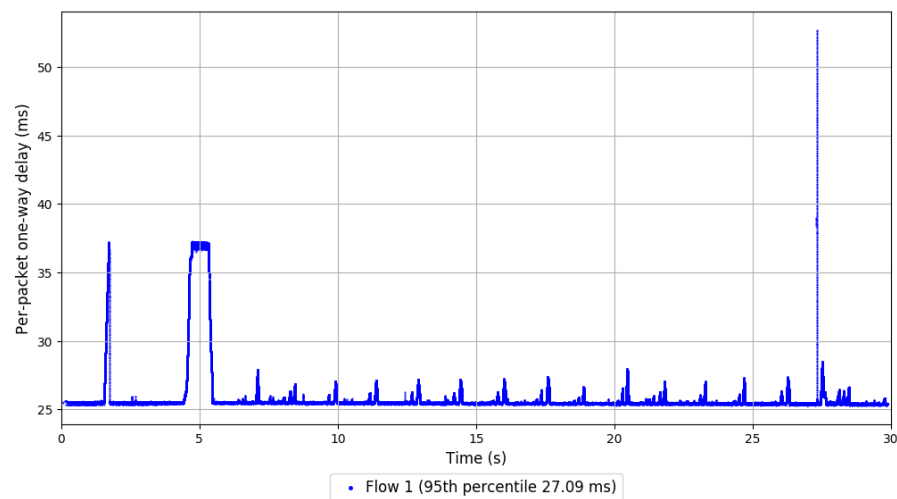
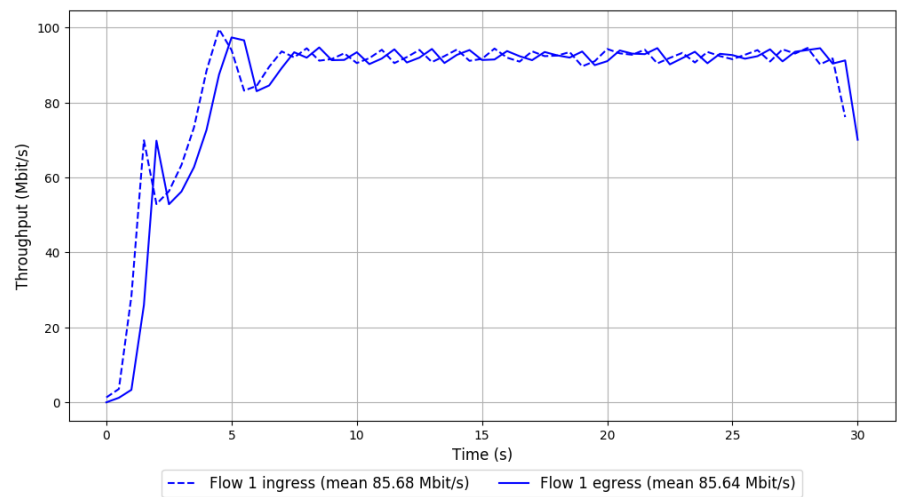
-- Flow 1:

Average throughput: 85.64 Mbit/s

95th percentile per-packet one-way delay: 27.093 ms

Loss rate: 0.22%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-05-22 11:25:30

End at: 2018-05-22 11:26:00

Local clock offset: 7.473 ms

Remote clock offset: 2.843 ms

Below is generated by plot.py at 2018-05-22 13:39:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.70 Mbit/s

95th percentile per-packet one-way delay: 30.801 ms

Loss rate: 0.21%

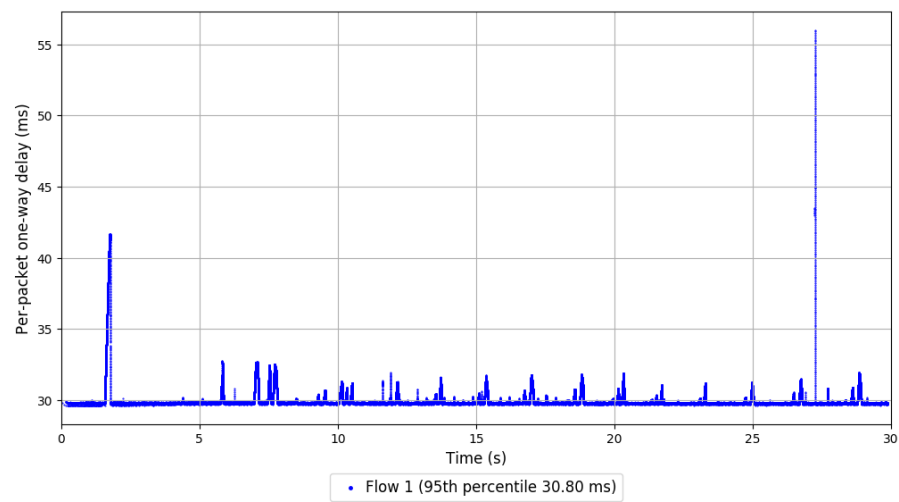
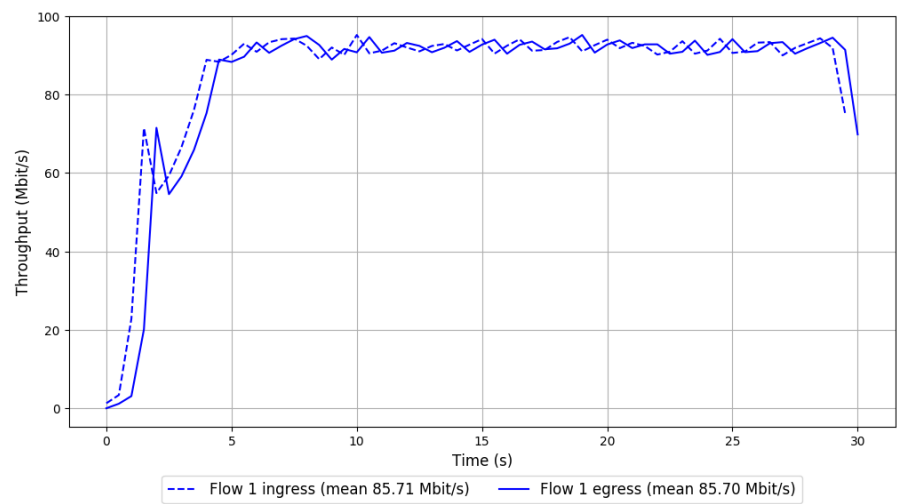
-- Flow 1:

Average throughput: 85.70 Mbit/s

95th percentile per-packet one-way delay: 30.801 ms

Loss rate: 0.21%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-05-22 11:46:18

End at: 2018-05-22 11:46:48

Local clock offset: 0.907 ms

Remote clock offset: 0.306 ms

Below is generated by plot.py at 2018-05-22 13:39:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.55 Mbit/s

95th percentile per-packet one-way delay: 34.226 ms

Loss rate: 0.21%

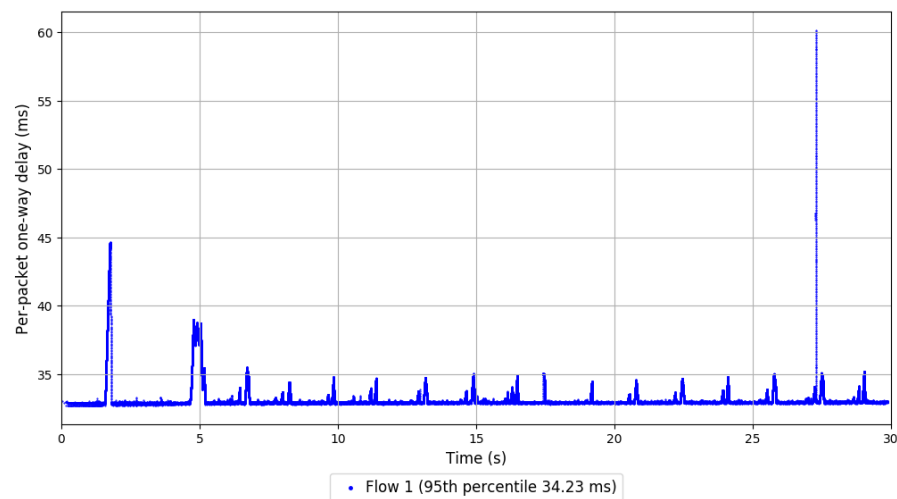
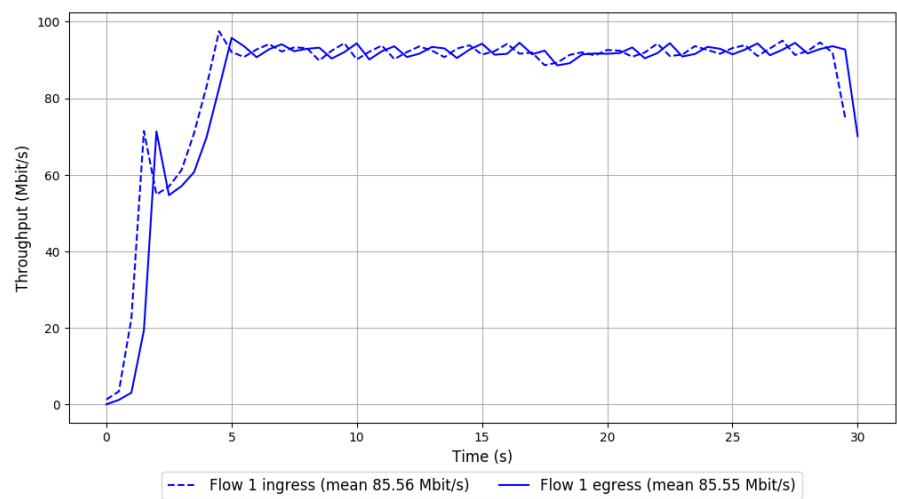
-- Flow 1:

Average throughput: 85.55 Mbit/s

95th percentile per-packet one-way delay: 34.226 ms

Loss rate: 0.21%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-05-22 12:07:12

End at: 2018-05-22 12:07:42

Local clock offset: 0.51 ms

Remote clock offset: 0.191 ms

Below is generated by plot.py at 2018-05-22 13:39:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.95 Mbit/s

95th percentile per-packet one-way delay: 33.648 ms

Loss rate: 0.23%

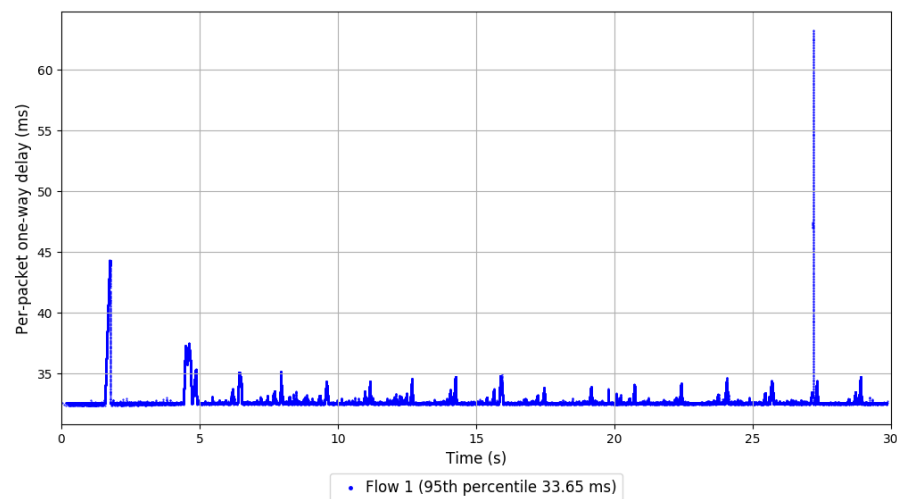
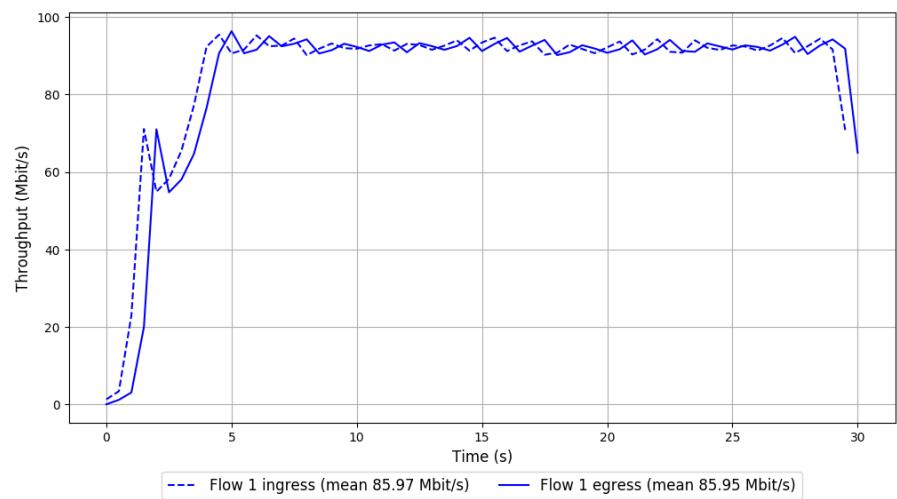
-- Flow 1:

Average throughput: 85.95 Mbit/s

95th percentile per-packet one-way delay: 33.648 ms

Loss rate: 0.23%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-05-22 12:29:26

End at: 2018-05-22 12:29:56

Local clock offset: 0.351 ms

Remote clock offset: 3.209 ms

Below is generated by plot.py at 2018-05-22 13:39:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.64 Mbit/s

95th percentile per-packet one-way delay: 31.195 ms

Loss rate: 0.23%

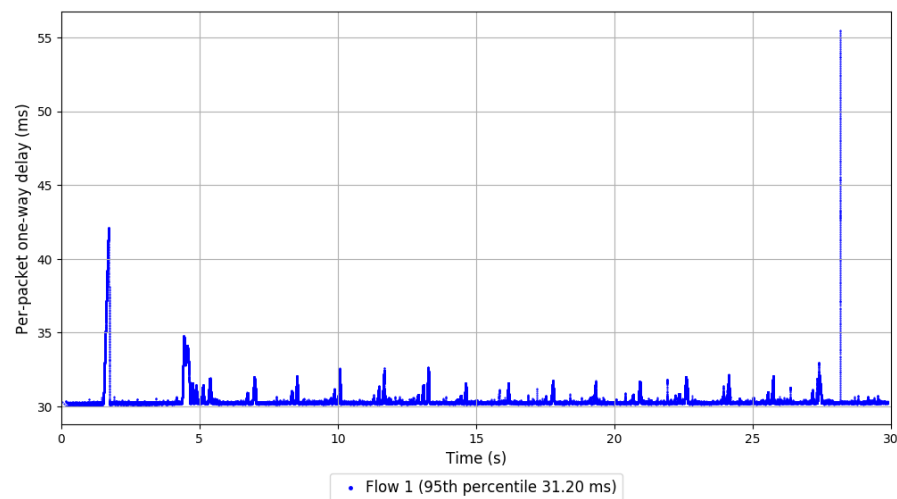
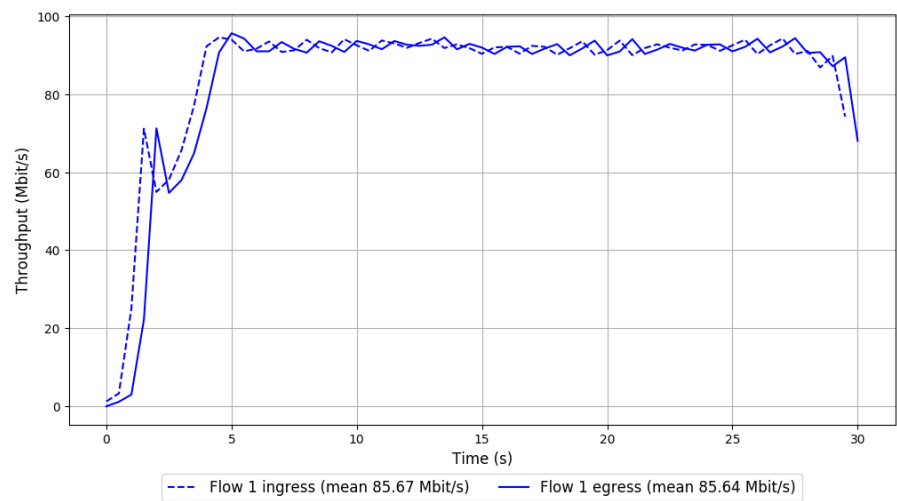
-- Flow 1:

Average throughput: 85.64 Mbit/s

95th percentile per-packet one-way delay: 31.195 ms

Loss rate: 0.23%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-05-22 12:50:26

End at: 2018-05-22 12:50:56

Local clock offset: 0.61 ms

Remote clock offset: 3.241 ms

Below is generated by plot.py at 2018-05-22 13:39:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.61 Mbit/s

95th percentile per-packet one-way delay: 27.843 ms

Loss rate: 0.23%

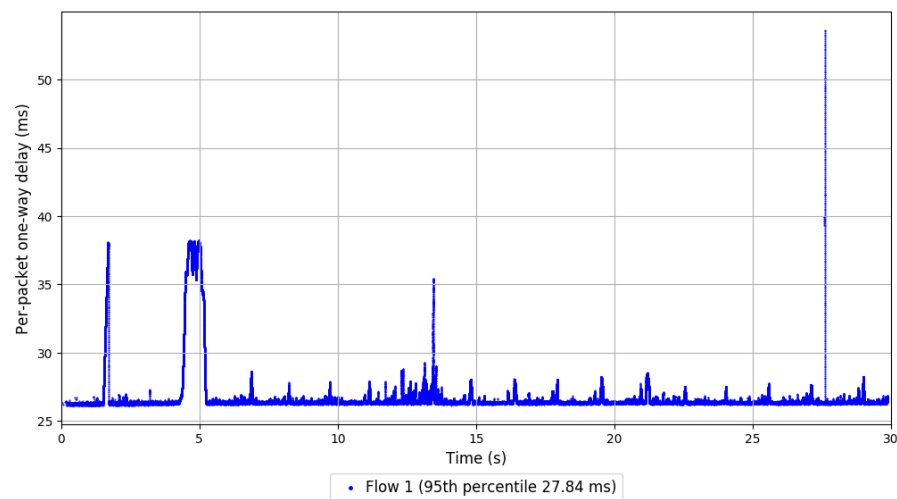
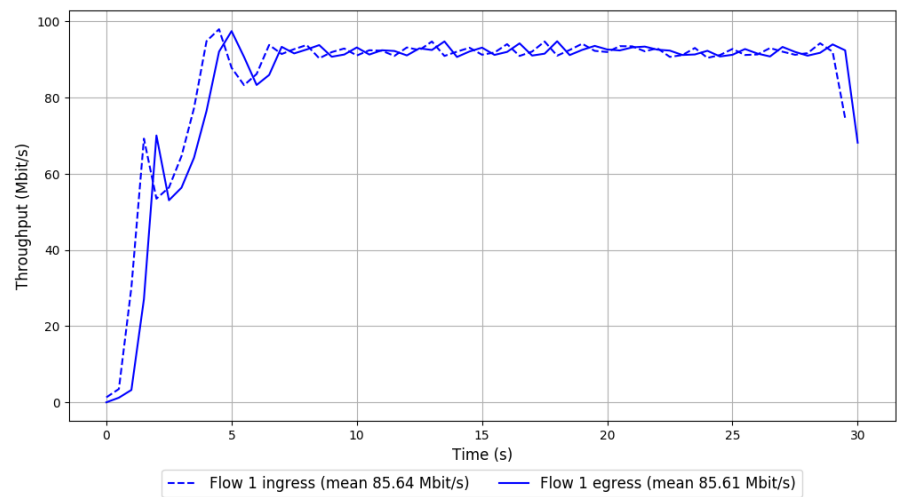
-- Flow 1:

Average throughput: 85.61 Mbit/s

95th percentile per-packet one-way delay: 27.843 ms

Loss rate: 0.23%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-05-22 13:11:38

End at: 2018-05-22 13:12:08

Local clock offset: 0.907 ms

Remote clock offset: 2.823 ms

Below is generated by plot.py at 2018-05-22 13:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.11 Mbit/s

95th percentile per-packet one-way delay: 31.378 ms

Loss rate: 0.23%

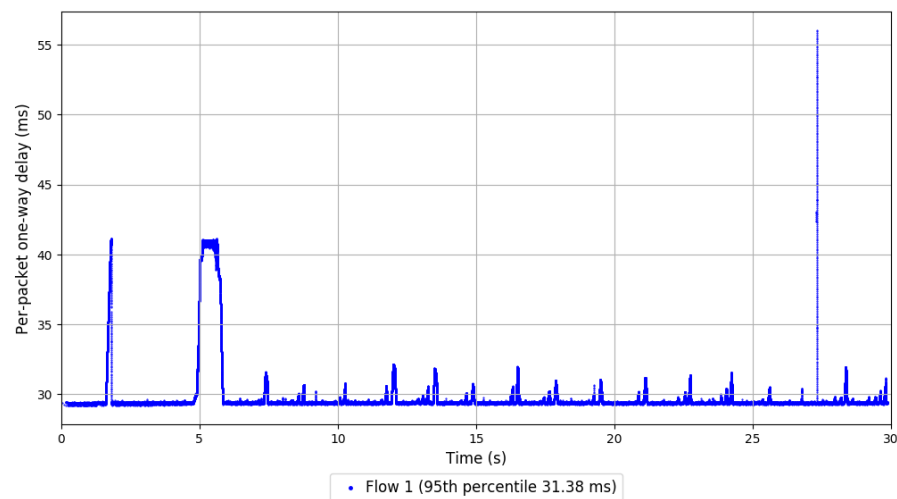
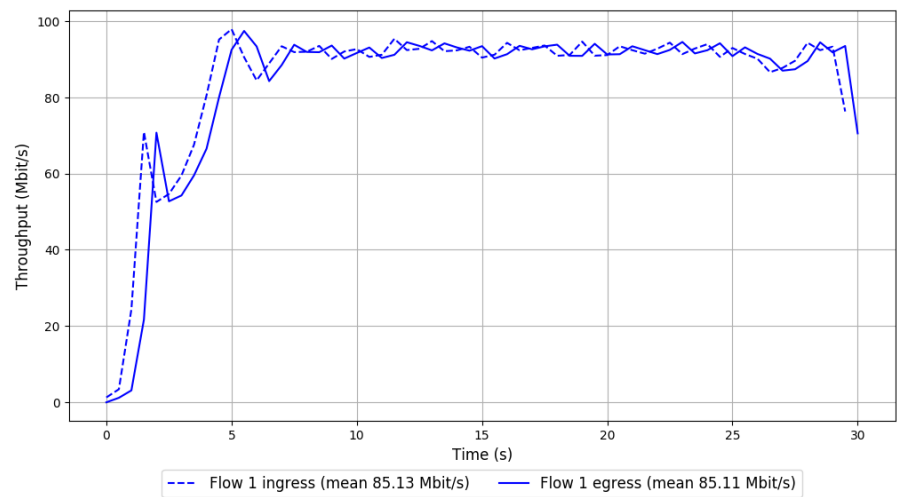
-- Flow 1:

Average throughput: 85.11 Mbit/s

95th percentile per-packet one-way delay: 31.378 ms

Loss rate: 0.23%

Run 10: Report of PCC-Vivace — Data Link

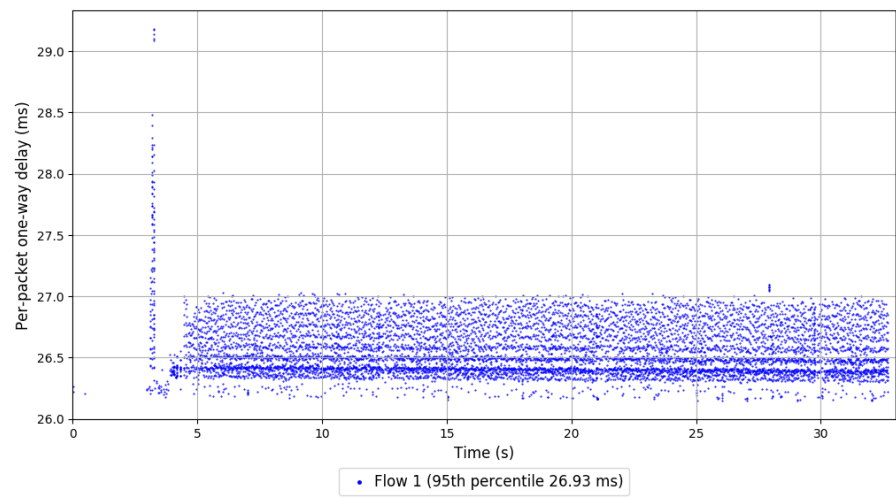
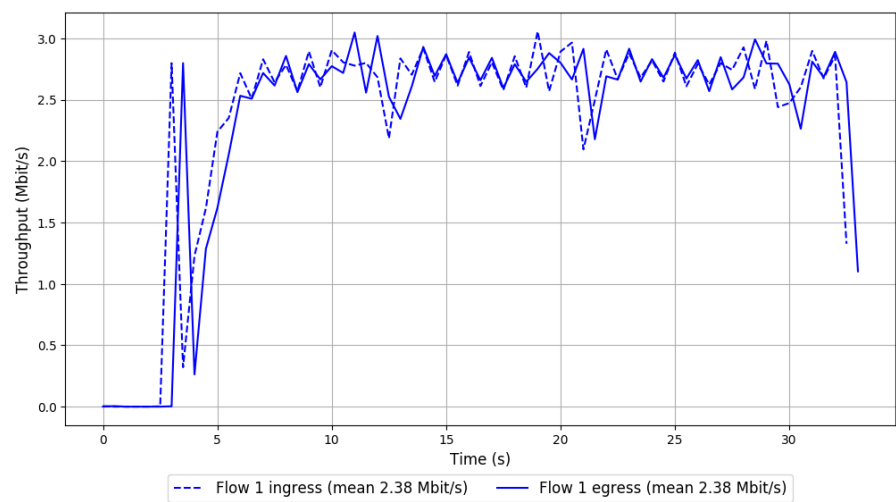


```
Run 1: Statistics of WebRTC media

Start at: 2018-05-22 10:08:58
End at: 2018-05-22 10:09:28
Local clock offset: 1.264 ms
Remote clock offset: 3.226 ms

# Below is generated by plot.py at 2018-05-22 13:39:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 26.930 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 26.930 ms
Loss rate: 0.28%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-05-22 10:29:43

End at: 2018-05-22 10:30:13

Local clock offset: 1.385 ms

Remote clock offset: 3.455 ms

Below is generated by plot.py at 2018-05-22 13:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 30.922 ms

Loss rate: 0.19%

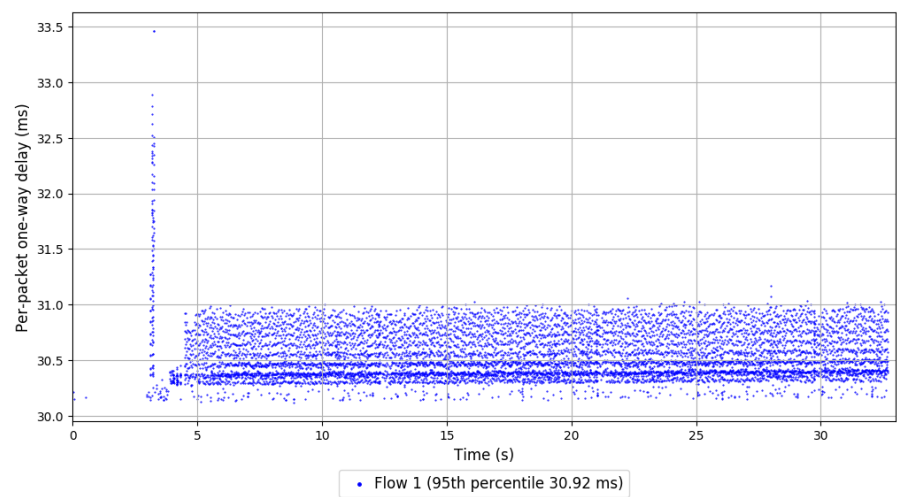
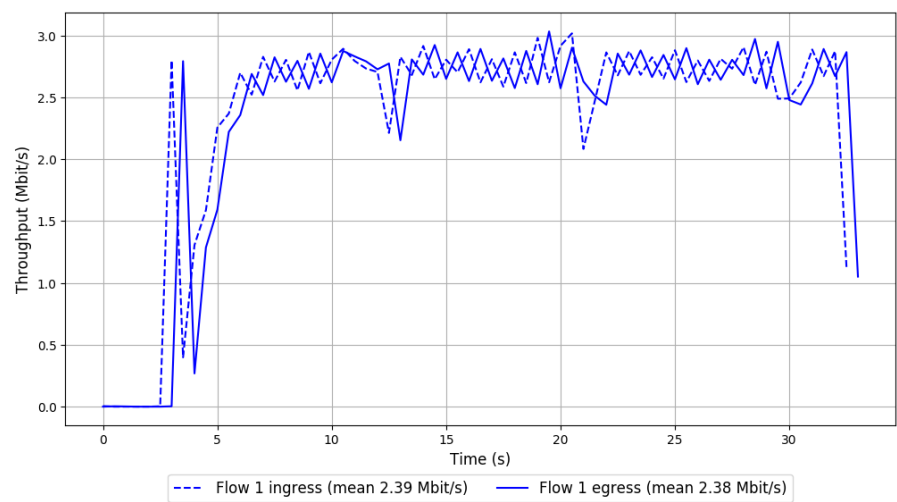
-- Flow 1:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 30.922 ms

Loss rate: 0.19%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-05-22 10:50:28

End at: 2018-05-22 10:50:58

Local clock offset: 0.694 ms

Remote clock offset: 3.219 ms

Below is generated by plot.py at 2018-05-22 13:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 31.102 ms

Loss rate: 0.18%

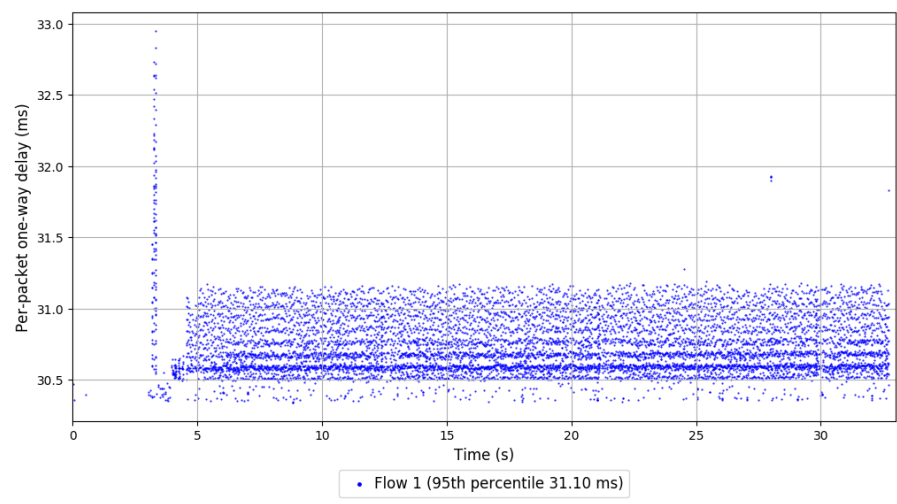
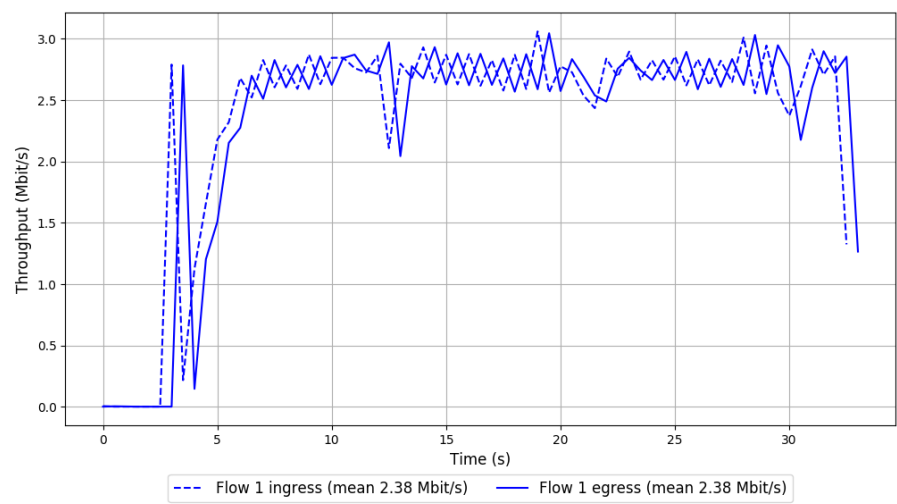
-- Flow 1:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 31.102 ms

Loss rate: 0.18%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-05-22 11:11:15

End at: 2018-05-22 11:11:45

Local clock offset: 5.776 ms

Remote clock offset: 1.291 ms

Below is generated by plot.py at 2018-05-22 13:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 32.352 ms

Loss rate: 0.25%

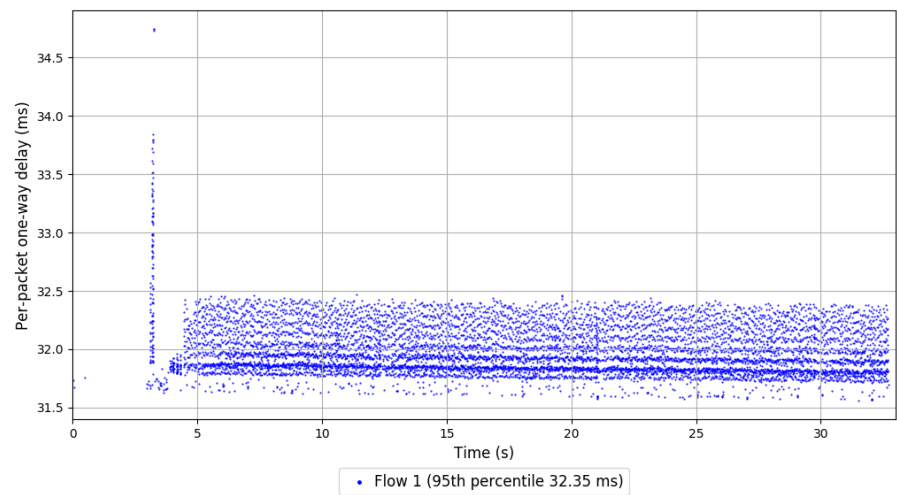
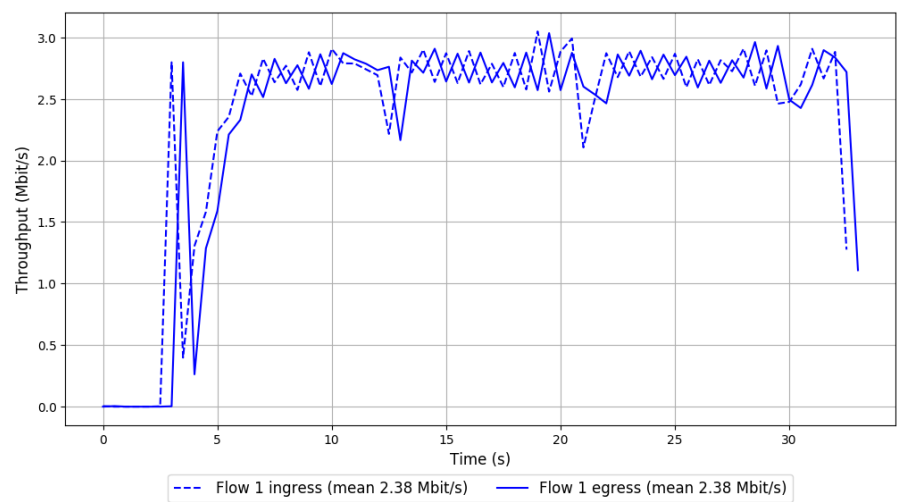
-- Flow 1:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 32.352 ms

Loss rate: 0.25%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-05-22 11:32:01

End at: 2018-05-22 11:32:31

Local clock offset: 4.223 ms

Remote clock offset: 0.616 ms

Below is generated by plot.py at 2018-05-22 13:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 29.535 ms

Loss rate: 0.13%

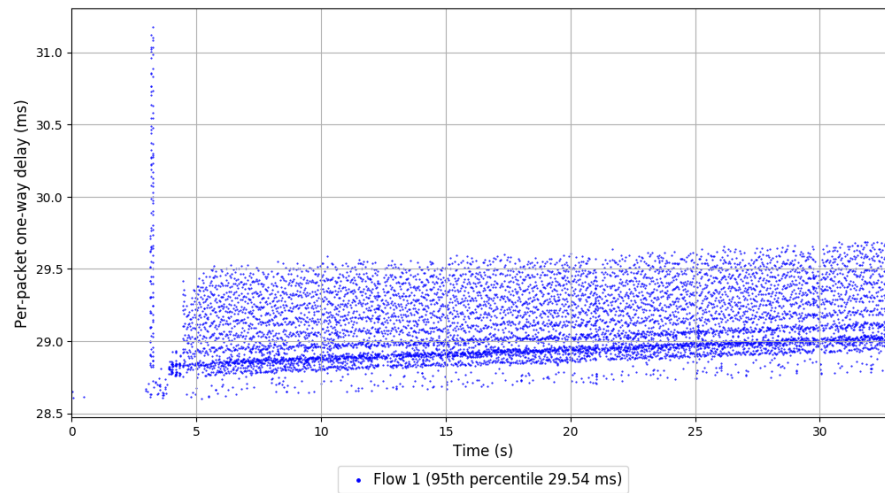
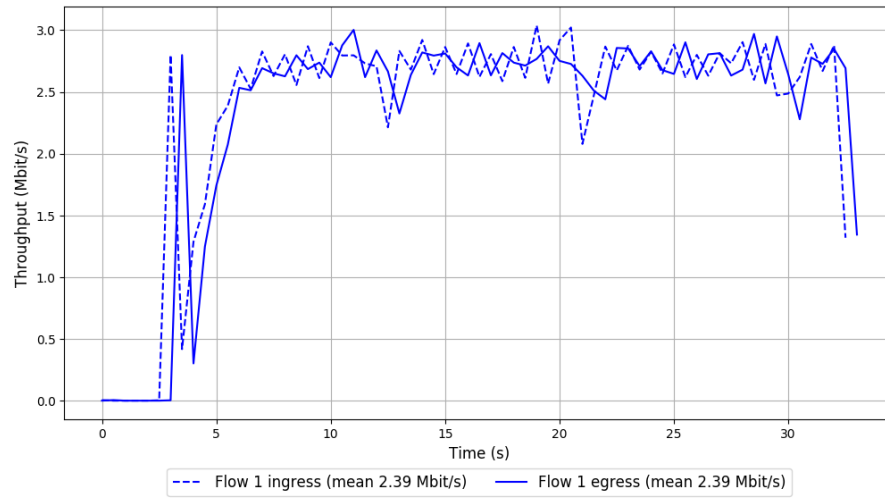
-- Flow 1:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 29.535 ms

Loss rate: 0.13%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-05-22 11:52:51

End at: 2018-05-22 11:53:21

Local clock offset: 0.277 ms

Remote clock offset: 2.416 ms

Below is generated by plot.py at 2018-05-22 13:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 32.241 ms

Loss rate: 0.28%

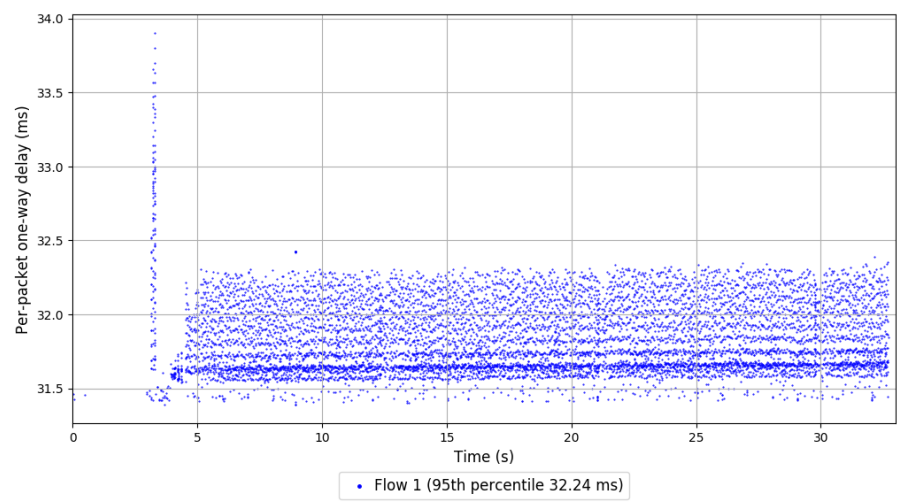
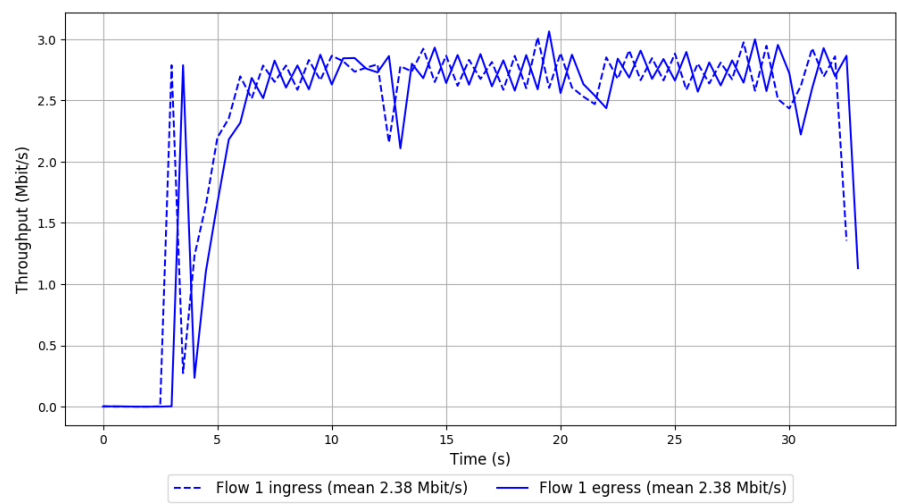
-- Flow 1:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 32.241 ms

Loss rate: 0.28%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-05-22 12:14:19

End at: 2018-05-22 12:14:49

Local clock offset: 0.411 ms

Remote clock offset: 2.021 ms

Below is generated by plot.py at 2018-05-22 13:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 31.030 ms

Loss rate: 0.28%

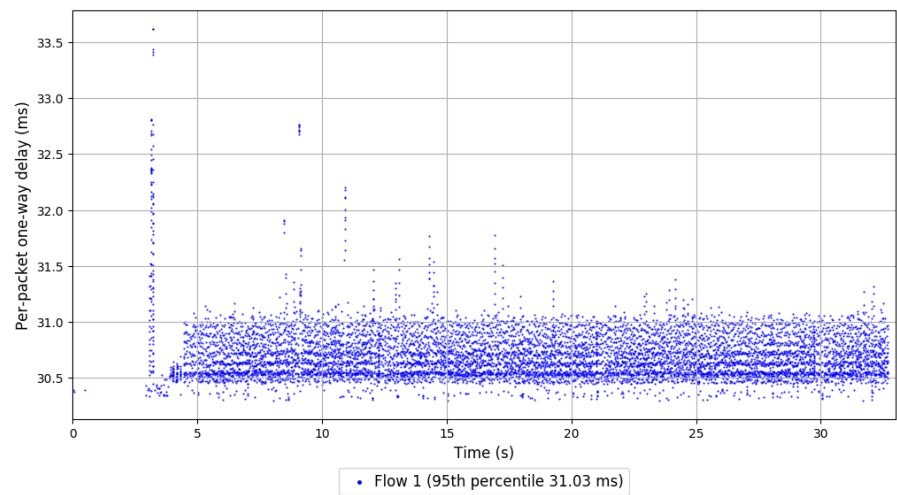
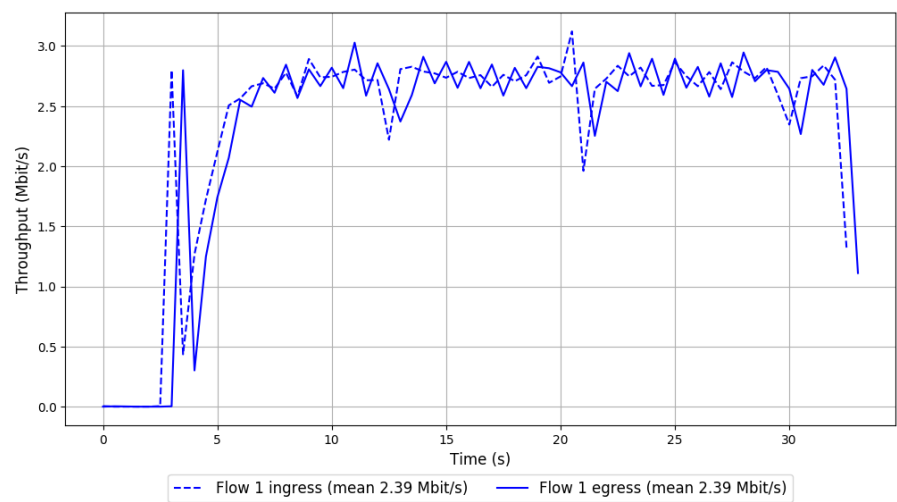
-- Flow 1:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 31.030 ms

Loss rate: 0.28%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-05-22 12:35:59

End at: 2018-05-22 12:36:29

Local clock offset: 0.627 ms

Remote clock offset: 3.485 ms

Below is generated by plot.py at 2018-05-22 13:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 30.035 ms

Loss rate: 0.28%

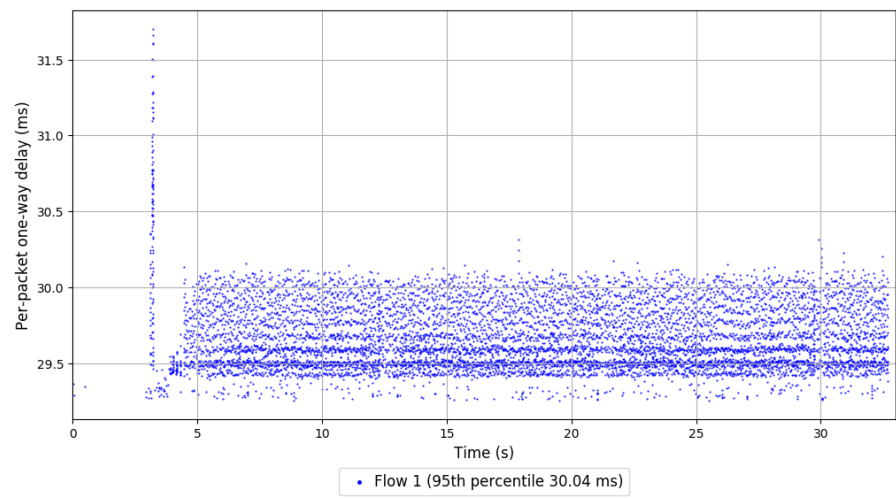
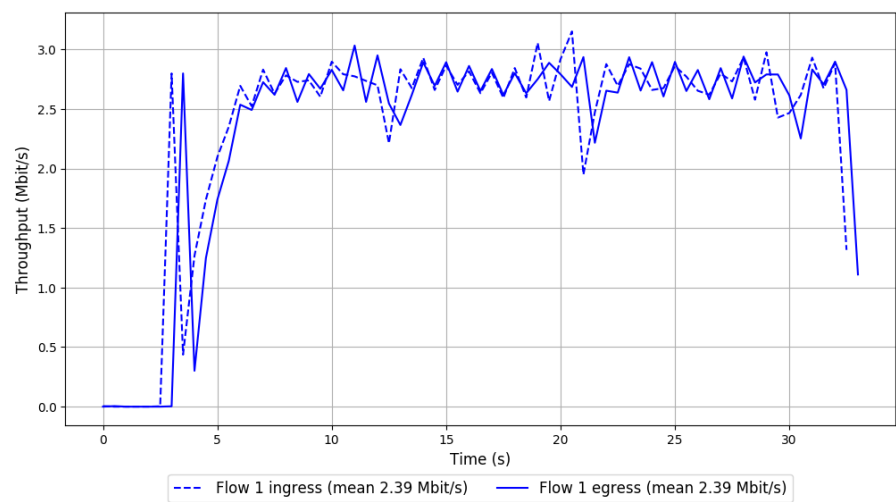
-- Flow 1:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 30.035 ms

Loss rate: 0.28%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-05-22 12:57:16

End at: 2018-05-22 12:57:46

Local clock offset: 0.576 ms

Remote clock offset: 3.551 ms

Below is generated by plot.py at 2018-05-22 13:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 30.584 ms

Loss rate: 0.29%

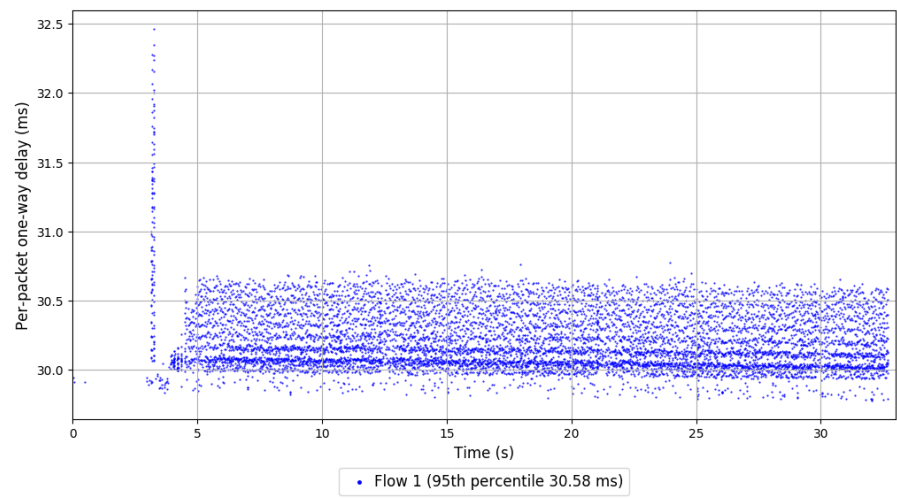
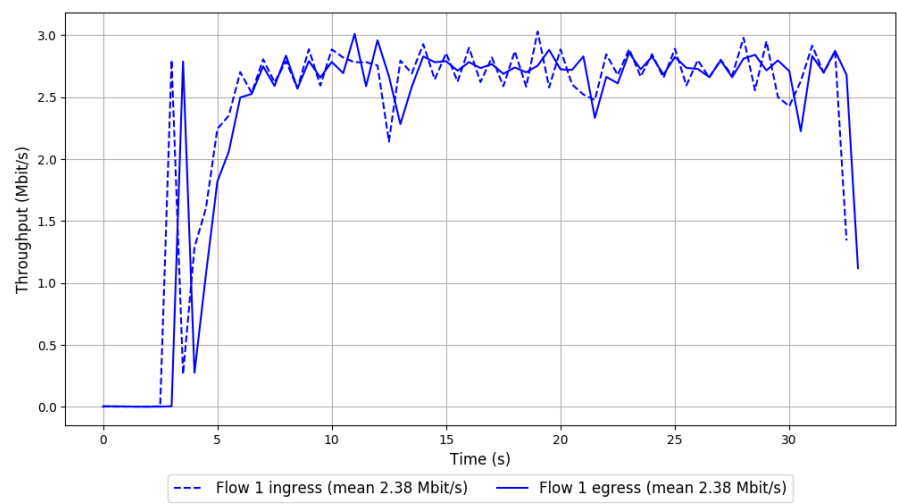
-- Flow 1:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 30.584 ms

Loss rate: 0.29%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-22 13:18:06

End at: 2018-05-22 13:18:36

Local clock offset: 0.949 ms

Remote clock offset: 2.773 ms

Below is generated by plot.py at 2018-05-22 13:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 30.619 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 30.619 ms

Loss rate: 0.28%

Run 10: Report of WebRTC media — Data Link

