

Pantheon Report

Generated at 2018-05-30 11:39:23 (UTC).

Data path: AWS India 1 Ethernet (*local*) → India Ethernet (*remote*).

Repeated the test of 16 congestion control schemes 10 times.

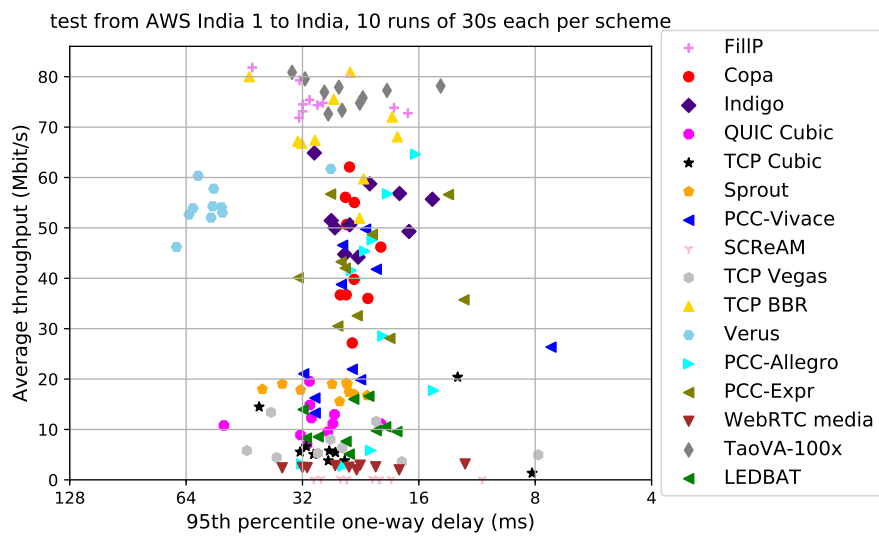
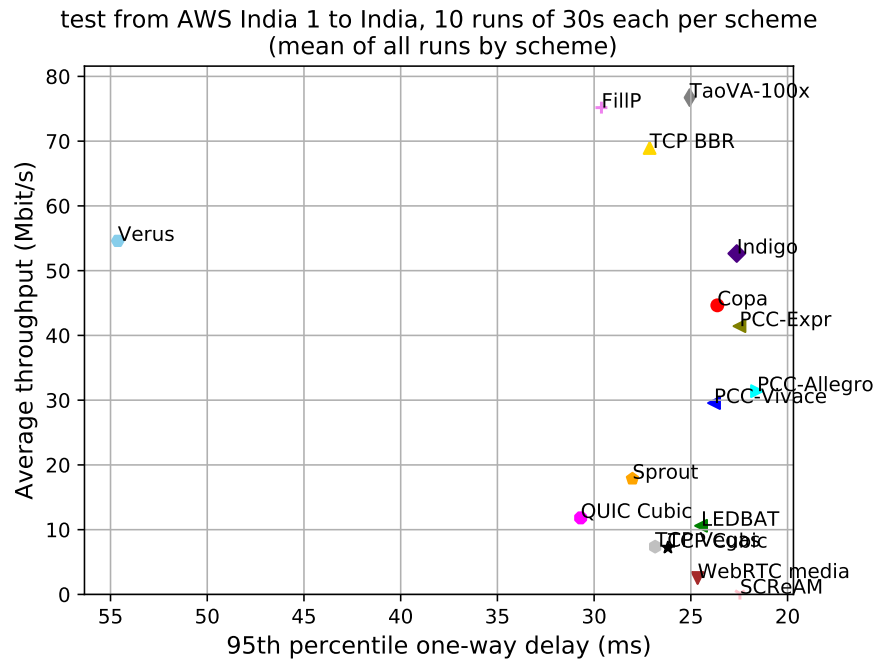
Each test lasted for 30 seconds running 1 flow.

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

NTP offsets were measured against nets.org.sg and have been applied to correct the timestamps in logs.

Git summary:

```
branch: master @ 227fdf9a3757f17b88537cceed5743a33037a3d2
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-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webRTC @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	68.95	27.13	12.86
Copa	10	44.64	23.63	11.80
TCP Cubic	10	7.23	26.19	2.53
FillP	10	75.17	29.62	16.86
Indigo	10	52.64	22.63	11.62
LEDBAT	10	10.60	24.47	1.26
PCC-Allegro	10	31.39	21.58	6.55
PCC-Expr	10	41.43	22.49	7.69
QUIC Cubic	10	11.82	30.70	2.95
SCReAM	10	0.13	22.46	1.78
Sprout	10	17.87	28.02	5.74
TaoVA-100x	10	76.72	25.06	13.17
TCP Vegas	10	7.38	26.84	2.70
Verus	10	54.60	54.63	33.27
PCC-Vivace	10	29.56	23.80	6.66
WebRTC media	10	2.53	24.65	1.81

Run 1: Statistics of TCP BBR

Start at: 2018-05-30 08:27:43

End at: 2018-05-30 08:28:13

Local clock offset: 0.785 ms

Remote clock offset: -9.385 ms

Below is generated by plot.py at 2018-05-30 11:28:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.07 Mbit/s

95th percentile per-packet one-way delay: 18.179 ms

Loss rate: 14.29%

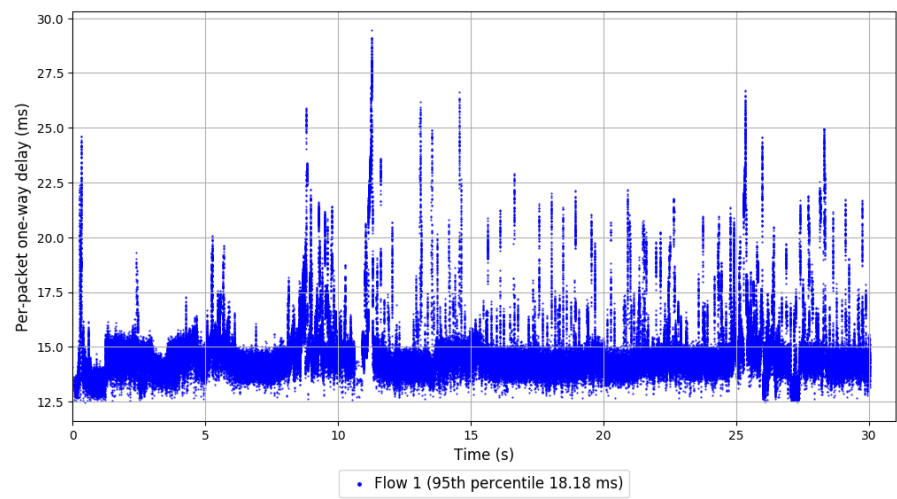
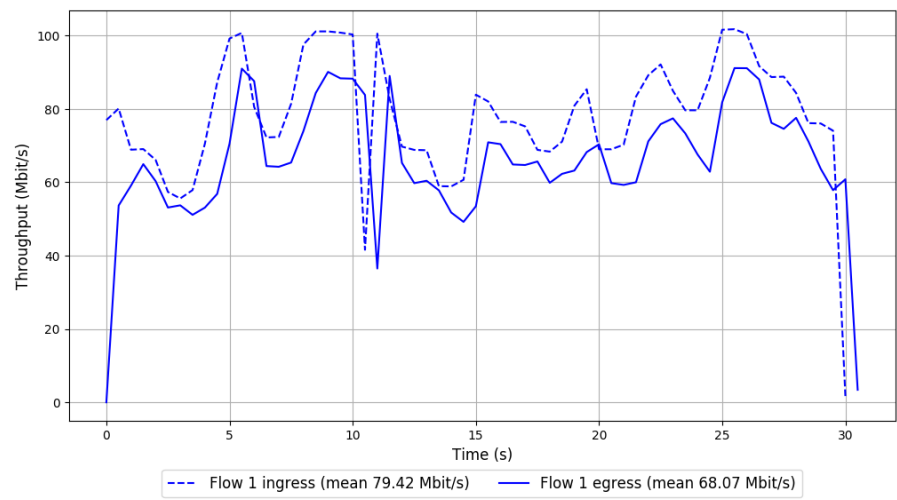
-- Flow 1:

Average throughput: 68.07 Mbit/s

95th percentile per-packet one-way delay: 18.179 ms

Loss rate: 14.29%

Run 1: Report of TCP BBR — Data Link

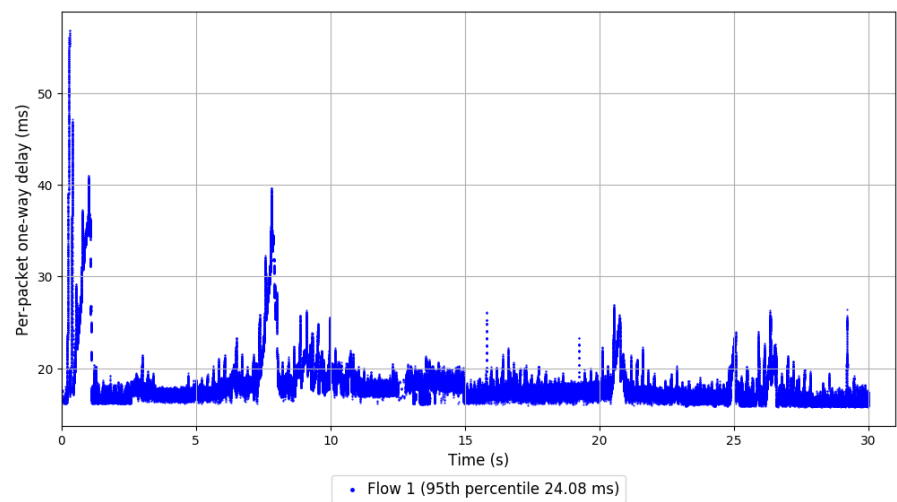
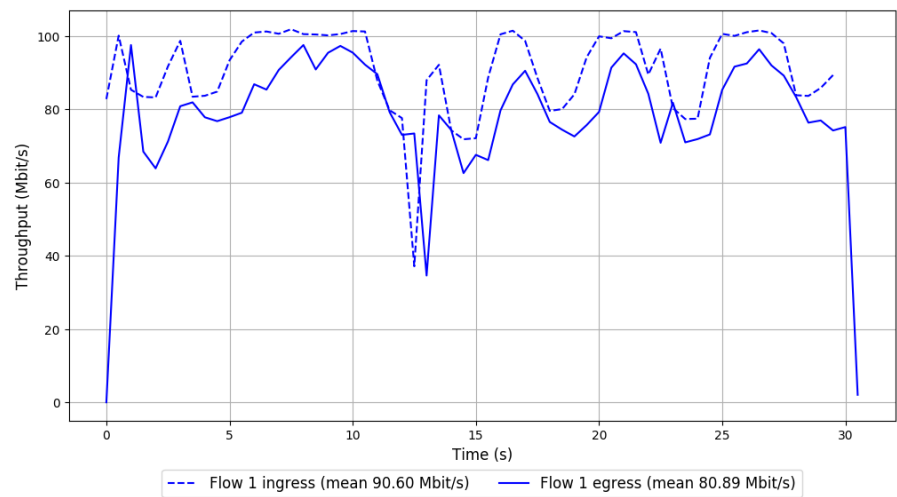


Run 2: Statistics of TCP BBR

Start at: 2018-05-30 08:46:19
End at: 2018-05-30 08:46:49
Local clock offset: 2.189 ms
Remote clock offset: -3.393 ms

Below is generated by plot.py at 2018-05-30 11:28:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 80.89 Mbit/s
95th percentile per-packet one-way delay: 24.078 ms
Loss rate: 10.72%
-- Flow 1:
Average throughput: 80.89 Mbit/s
95th percentile per-packet one-way delay: 24.078 ms
Loss rate: 10.72%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-05-30 09:04:16

End at: 2018-05-30 09:04:46

Local clock offset: 1.046 ms

Remote clock offset: 7.552 ms

Below is generated by plot.py at 2018-05-30 11:28:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.53 Mbit/s

95th percentile per-packet one-way delay: 26.561 ms

Loss rate: 12.73%

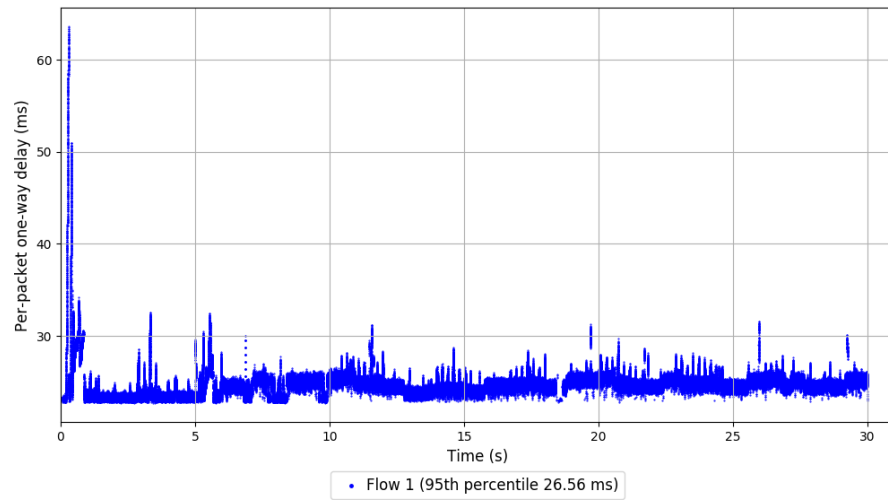
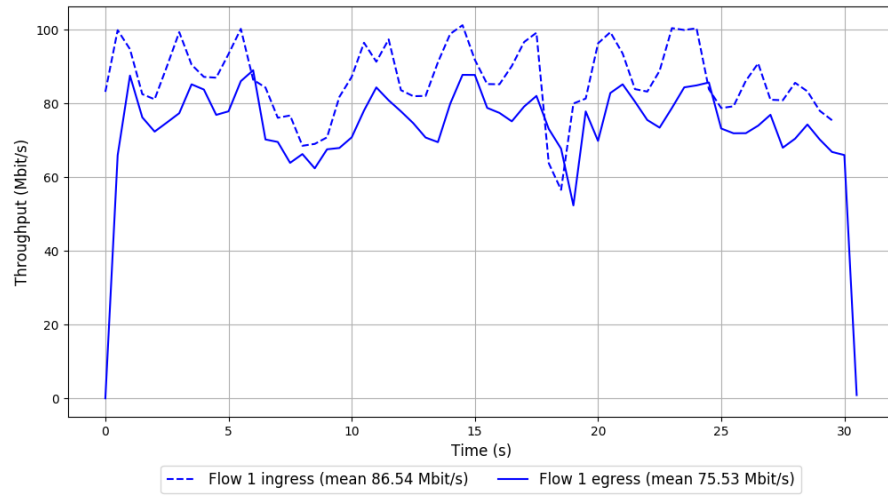
-- Flow 1:

Average throughput: 75.53 Mbit/s

95th percentile per-packet one-way delay: 26.561 ms

Loss rate: 12.73%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-05-30 09:22:18

End at: 2018-05-30 09:22:48

Local clock offset: -2.971 ms

Remote clock offset: 9.373 ms

Below is generated by plot.py at 2018-05-30 11:28:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.17 Mbit/s

95th percentile per-packet one-way delay: 32.911 ms

Loss rate: 12.90%

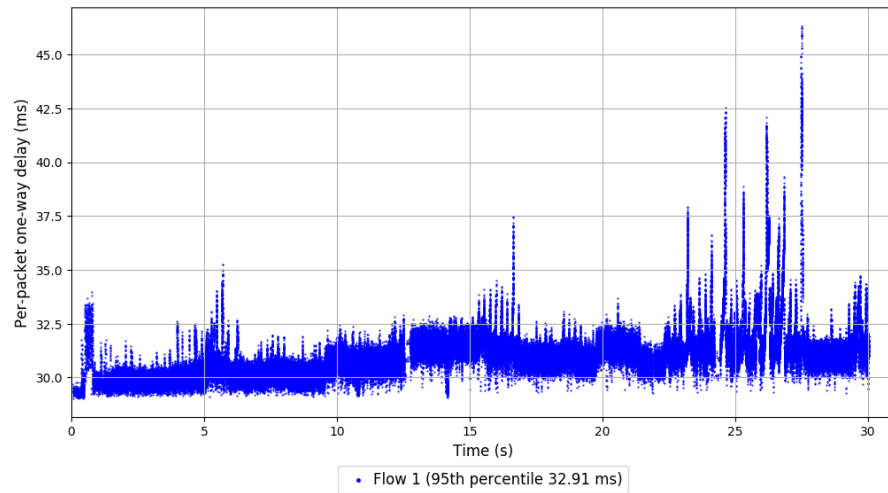
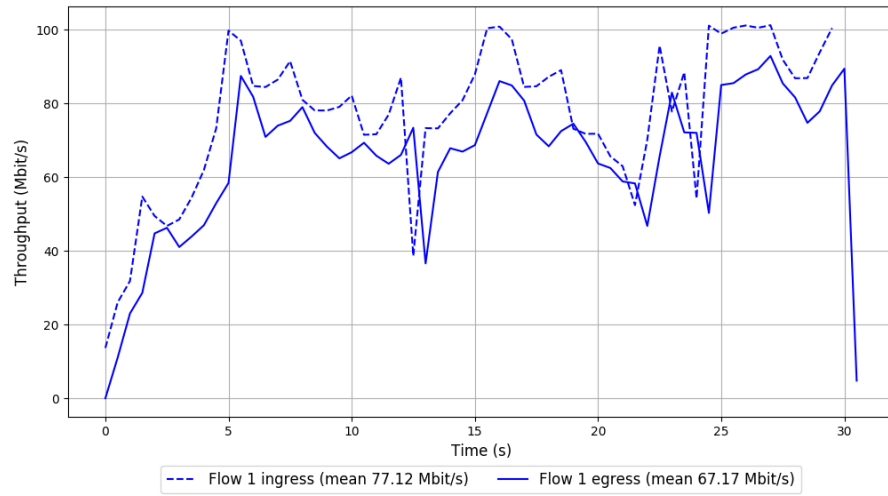
-- Flow 1:

Average throughput: 67.17 Mbit/s

95th percentile per-packet one-way delay: 32.911 ms

Loss rate: 12.90%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-05-30 09:40:22

End at: 2018-05-30 09:40:52

Local clock offset: -6.129 ms

Remote clock offset: 1.71 ms

Below is generated by plot.py at 2018-05-30 11:28:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.39 Mbit/s

95th percentile per-packet one-way delay: 29.712 ms

Loss rate: 12.86%

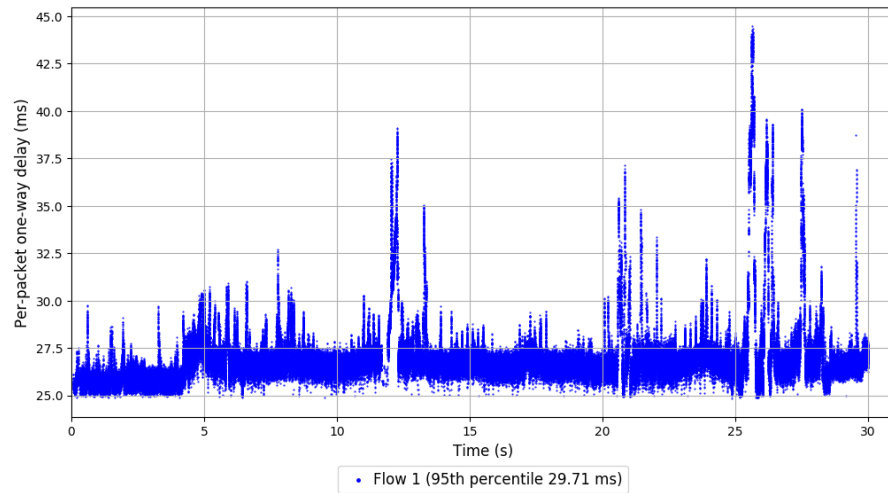
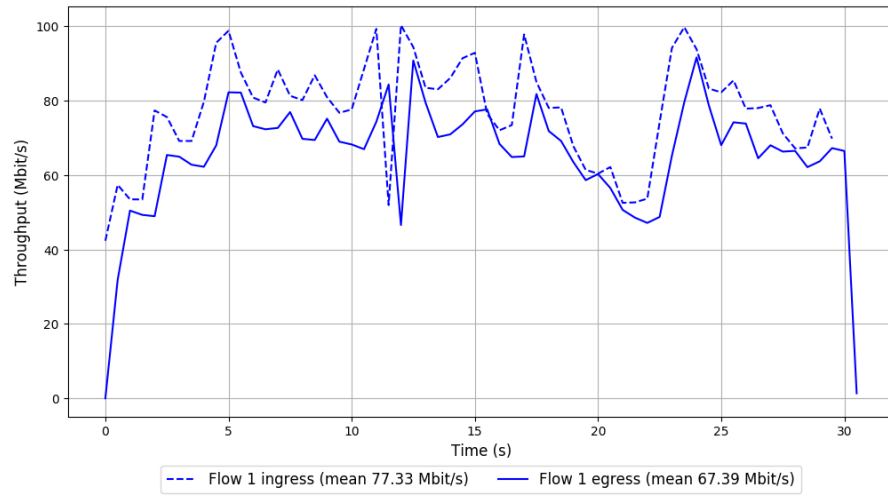
-- Flow 1:

Average throughput: 67.39 Mbit/s

95th percentile per-packet one-way delay: 29.712 ms

Loss rate: 12.86%

Run 5: Report of TCP BBR — Data Link

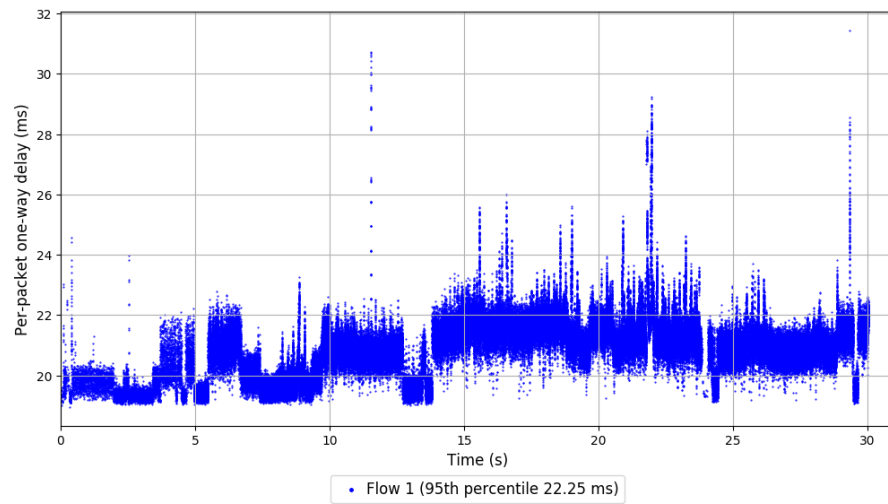
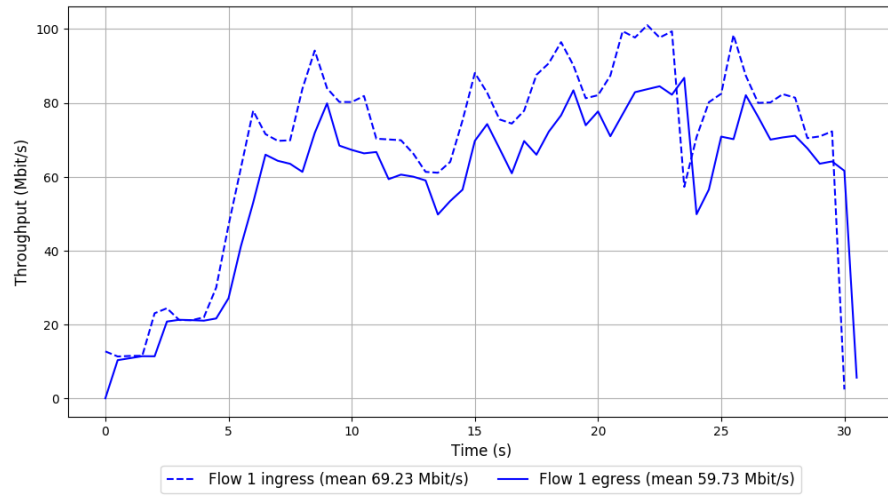


Run 6: Statistics of TCP BBR

Start at: 2018-05-30 09:58:28
End at: 2018-05-30 09:58:58
Local clock offset: -2.962 ms
Remote clock offset: -4.779 ms

Below is generated by plot.py at 2018-05-30 11:28:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 59.73 Mbit/s
95th percentile per-packet one-way delay: 22.250 ms
Loss rate: 13.72%
-- Flow 1:
Average throughput: 59.73 Mbit/s
95th percentile per-packet one-way delay: 22.250 ms
Loss rate: 13.72%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-05-30 10:16:26

End at: 2018-05-30 10:16:56

Local clock offset: -0.734 ms

Remote clock offset: -1.32 ms

Below is generated by plot.py at 2018-05-30 11:28:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.91 Mbit/s

95th percentile per-packet one-way delay: 22.778 ms

Loss rate: 15.82%

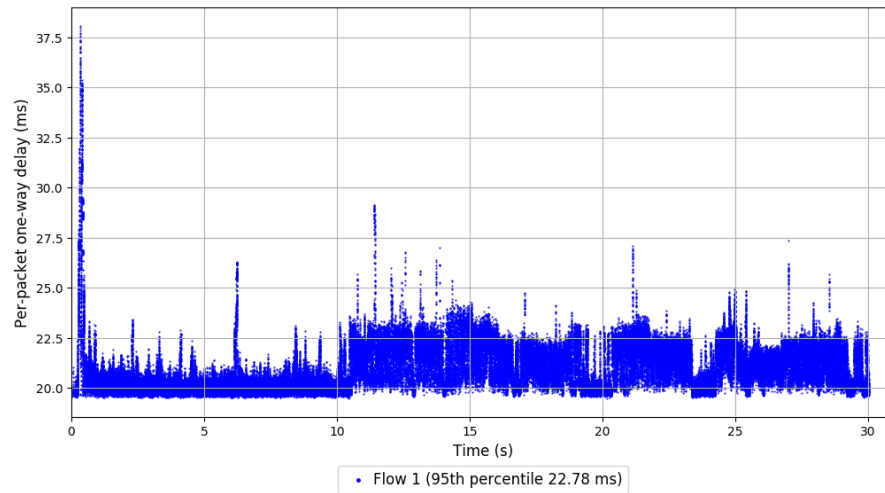
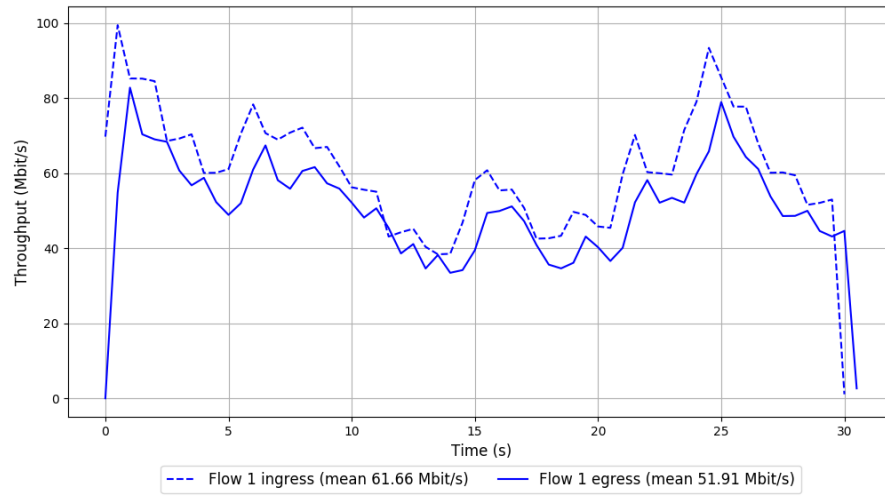
-- Flow 1:

Average throughput: 51.91 Mbit/s

95th percentile per-packet one-way delay: 22.778 ms

Loss rate: 15.82%

Run 7: Report of TCP BBR — Data Link

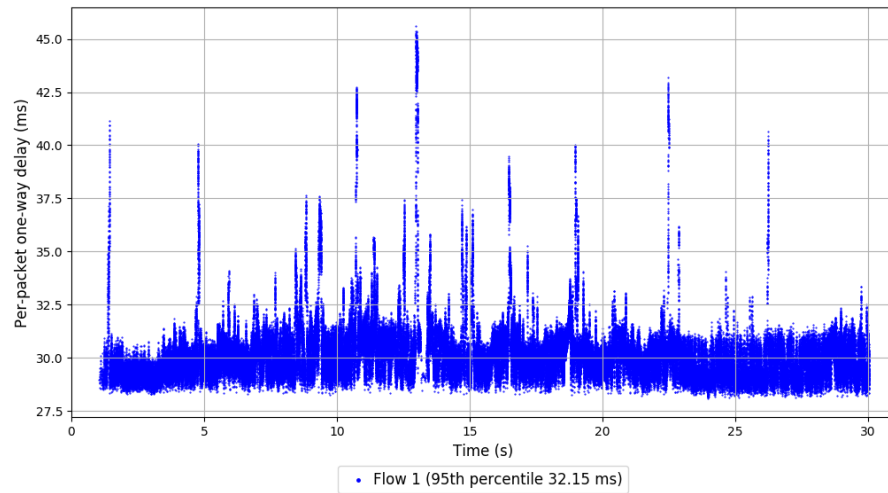
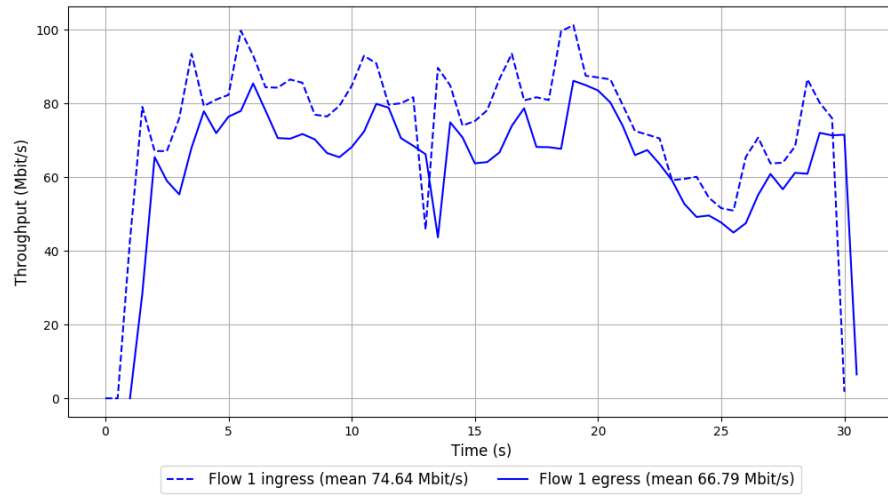


Run 8: Statistics of TCP BBR

Start at: 2018-05-30 10:34:12
End at: 2018-05-30 10:34:42
Local clock offset: -1.947 ms
Remote clock offset: 11.214 ms

Below is generated by plot.py at 2018-05-30 11:28:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 66.79 Mbit/s
95th percentile per-packet one-way delay: 32.153 ms
Loss rate: 13.55%
-- Flow 1:
Average throughput: 66.79 Mbit/s
95th percentile per-packet one-way delay: 32.153 ms
Loss rate: 13.55%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-05-30 10:52:05

End at: 2018-05-30 10:52:35

Local clock offset: -0.698 ms

Remote clock offset: 4.26 ms

Below is generated by plot.py at 2018-05-30 11:28:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.01 Mbit/s

95th percentile per-packet one-way delay: 43.935 ms

Loss rate: 9.45%

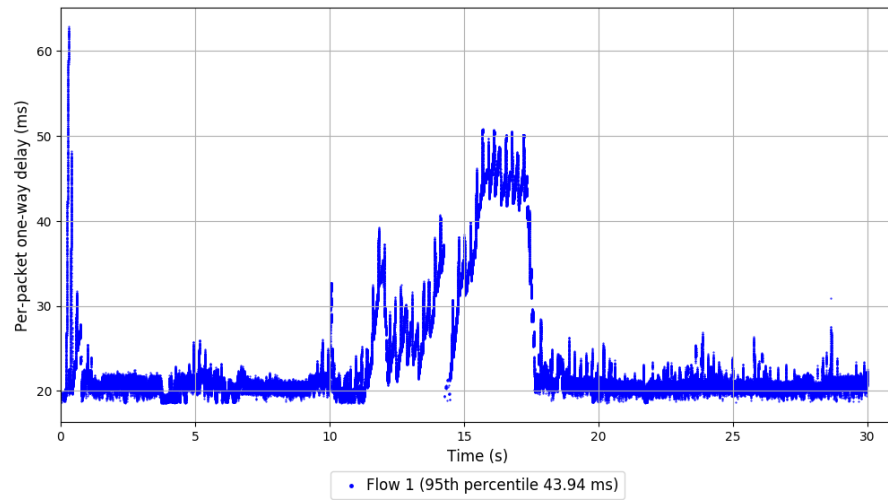
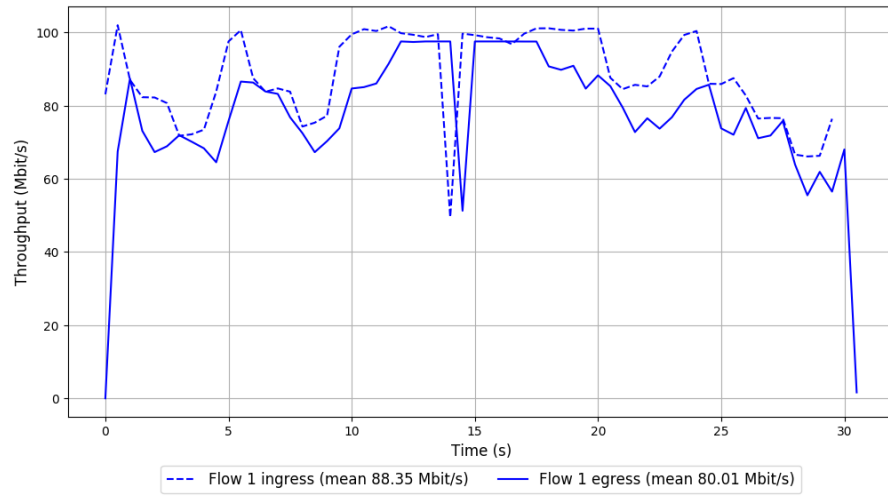
-- Flow 1:

Average throughput: 80.01 Mbit/s

95th percentile per-packet one-way delay: 43.935 ms

Loss rate: 9.45%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-05-30 11:10:11

End at: 2018-05-30 11:10:41

Local clock offset: 2.653 ms

Remote clock offset: 1.017 ms

Below is generated by plot.py at 2018-05-30 11:28:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.00 Mbit/s

95th percentile per-packet one-way delay: 18.749 ms

Loss rate: 12.54%

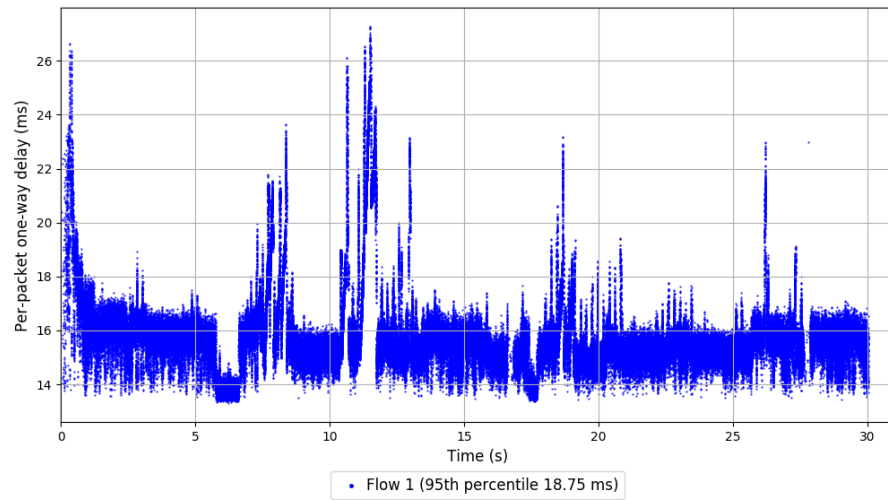
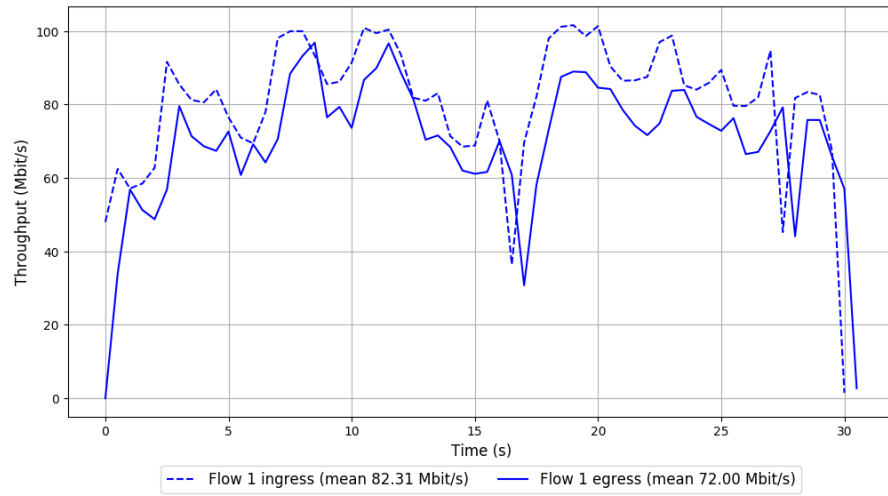
-- Flow 1:

Average throughput: 72.00 Mbit/s

95th percentile per-packet one-way delay: 18.749 ms

Loss rate: 12.54%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-05-30 08:41:40

End at: 2018-05-30 08:42:10

Local clock offset: -0.798 ms

Remote clock offset: -7.31 ms

Below is generated by plot.py at 2018-05-30 11:28:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.00 Mbit/s

95th percentile per-packet one-way delay: 21.673 ms

Loss rate: 12.29%

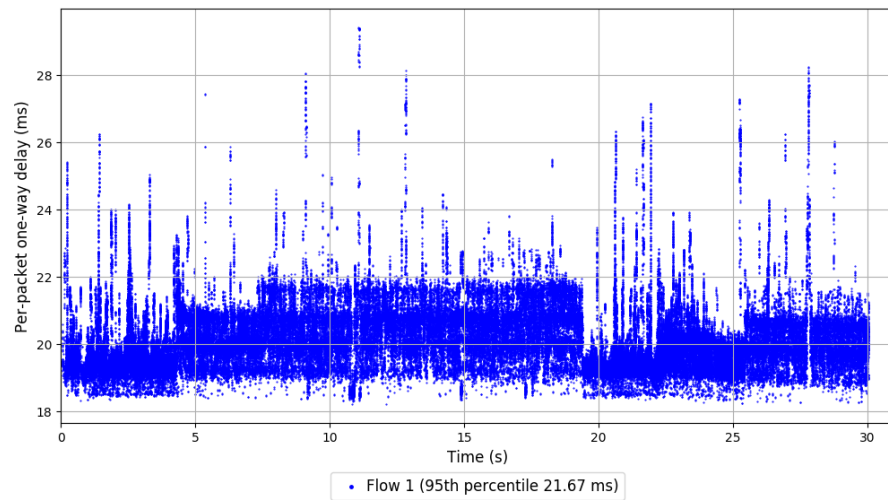
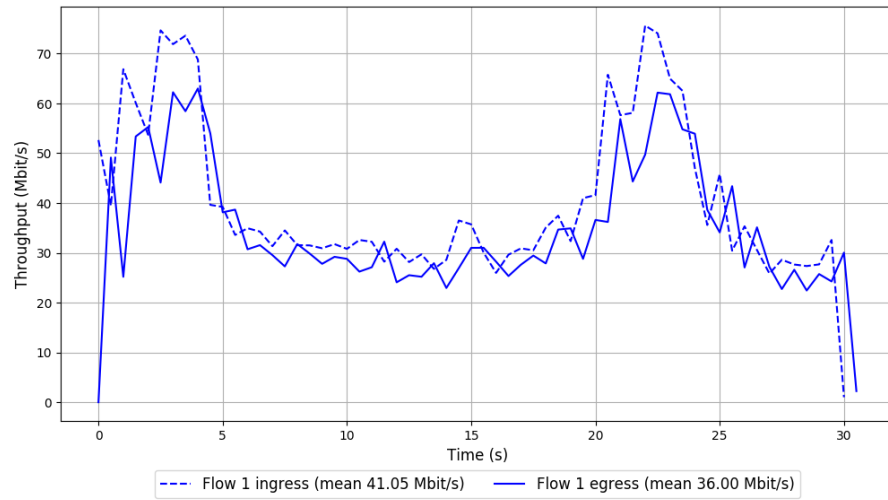
-- Flow 1:

Average throughput: 36.00 Mbit/s

95th percentile per-packet one-way delay: 21.673 ms

Loss rate: 12.29%

Run 1: Report of Copa — Data Link

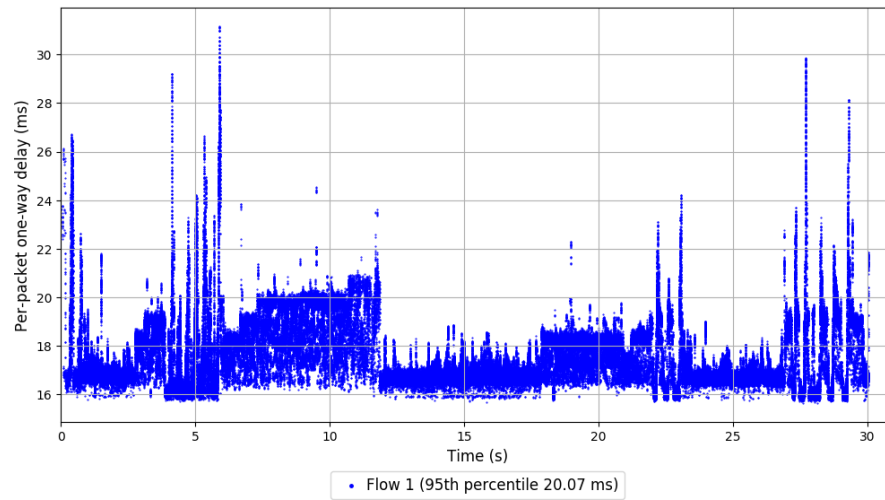
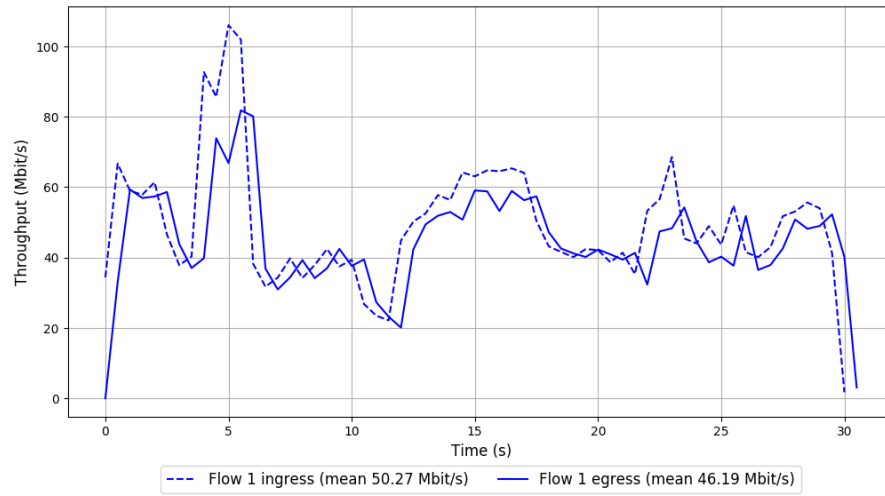


Run 2: Statistics of Copa

Start at: 2018-05-30 08:59:40
End at: 2018-05-30 09:00:10
Local clock offset: 0.397 ms
Remote clock offset: -0.596 ms

Below is generated by plot.py at 2018-05-30 11:29:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 46.19 Mbit/s
95th percentile per-packet one-way delay: 20.069 ms
Loss rate: 8.12%
-- Flow 1:
Average throughput: 46.19 Mbit/s
95th percentile per-packet one-way delay: 20.069 ms
Loss rate: 8.12%

Run 2: Report of Copa — Data Link

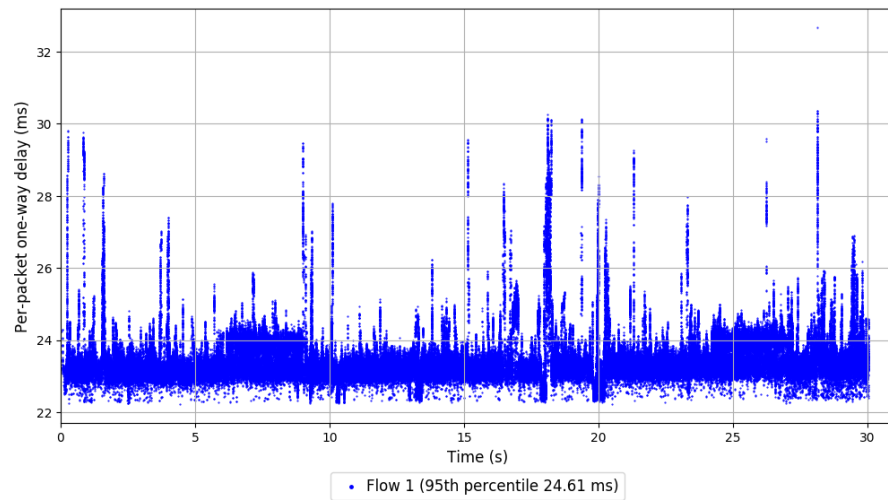
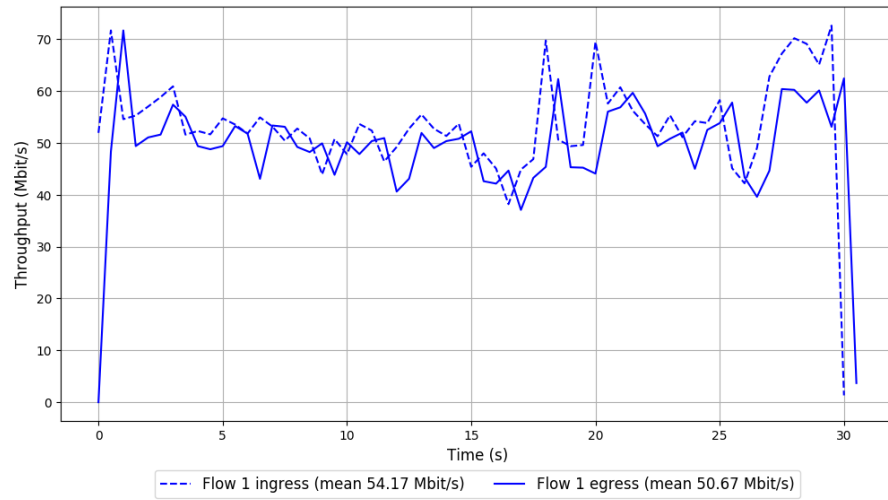


Run 3: Statistics of Copa

Start at: 2018-05-30 09:17:44
End at: 2018-05-30 09:18:14
Local clock offset: -2.288 ms
Remote clock offset: 4.356 ms

Below is generated by plot.py at 2018-05-30 11:29:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.67 Mbit/s
95th percentile per-packet one-way delay: 24.607 ms
Loss rate: 6.46%
-- Flow 1:
Average throughput: 50.67 Mbit/s
95th percentile per-packet one-way delay: 24.607 ms
Loss rate: 6.46%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-05-30 09:35:42

End at: 2018-05-30 09:36:12

Local clock offset: -1.346 ms

Remote clock offset: 2.675 ms

Below is generated by plot.py at 2018-05-30 11:29:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.70 Mbit/s

95th percentile per-packet one-way delay: 25.550 ms

Loss rate: 4.26%

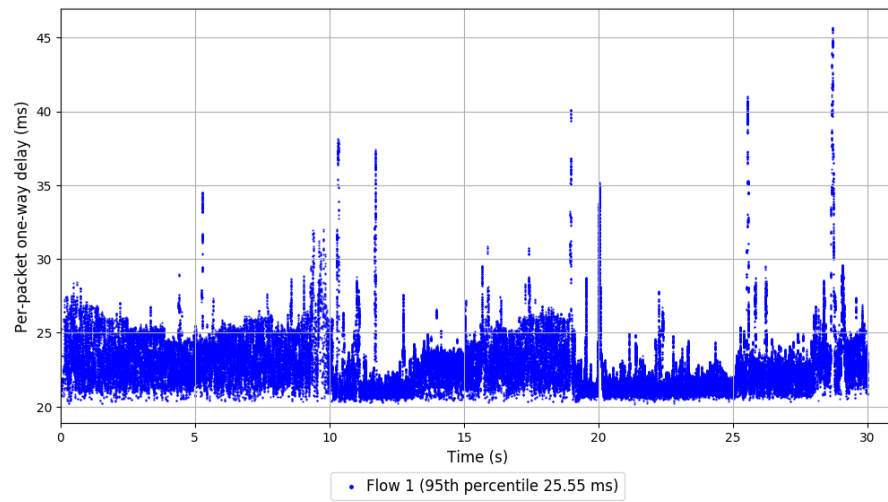
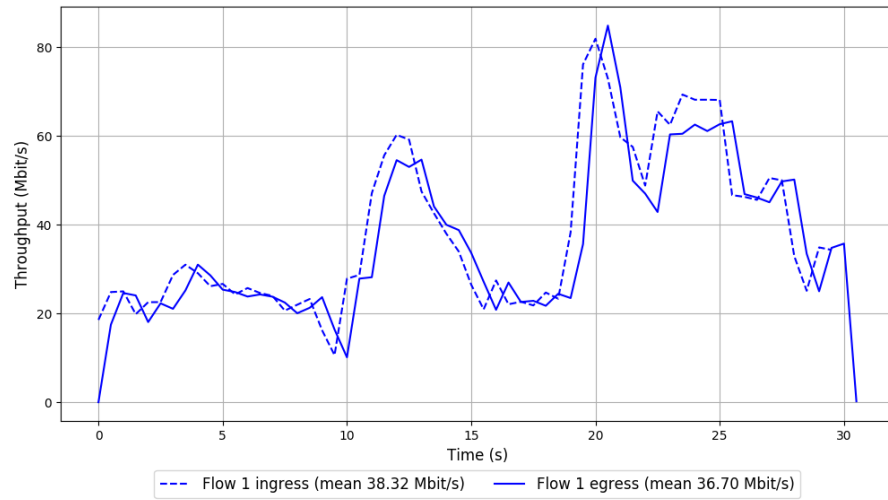
-- Flow 1:

Average throughput: 36.70 Mbit/s

95th percentile per-packet one-way delay: 25.550 ms

Loss rate: 4.26%

Run 4: Report of Copa — Data Link

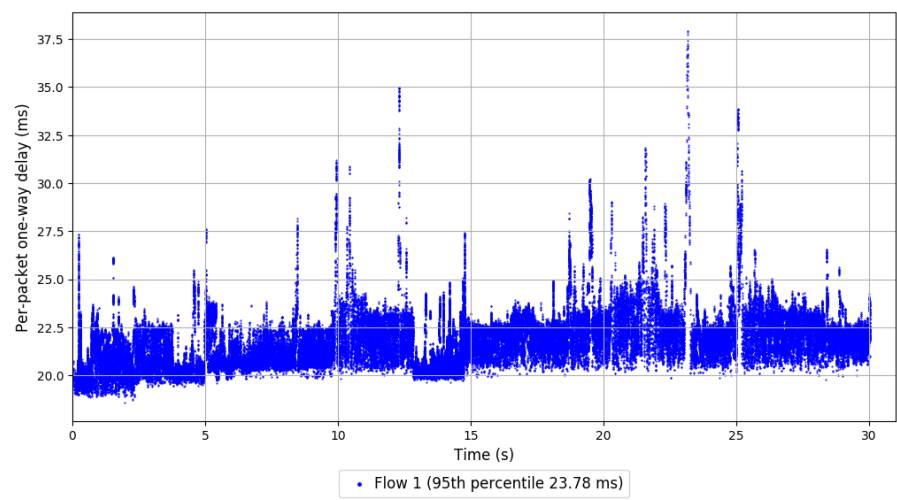
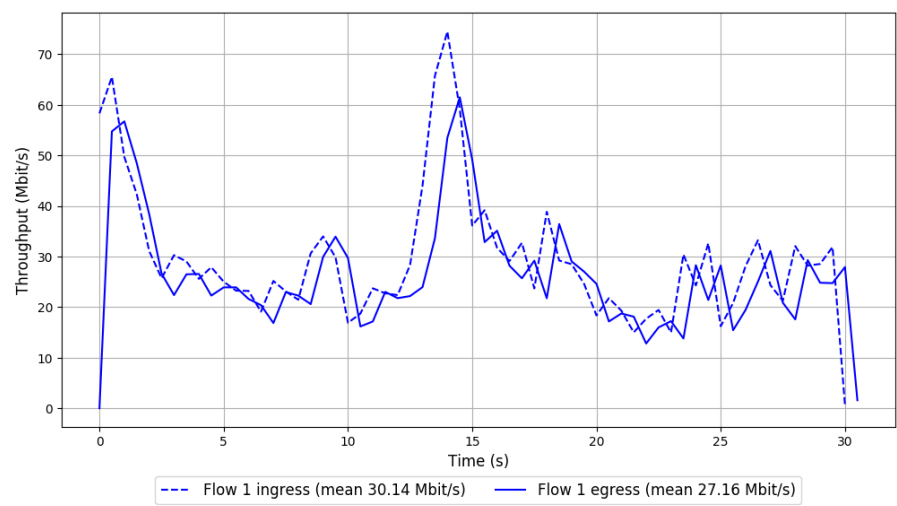


Run 5: Statistics of Copa

Start at: 2018-05-30 09:53:53
End at: 2018-05-30 09:54:23
Local clock offset: -2.259 ms
Remote clock offset: -2.099 ms

Below is generated by plot.py at 2018-05-30 11:29:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 27.16 Mbit/s
95th percentile per-packet one-way delay: 23.784 ms
Loss rate: 9.89%
-- Flow 1:
Average throughput: 27.16 Mbit/s
95th percentile per-packet one-way delay: 23.784 ms
Loss rate: 9.89%

Run 5: Report of Copa — Data Link

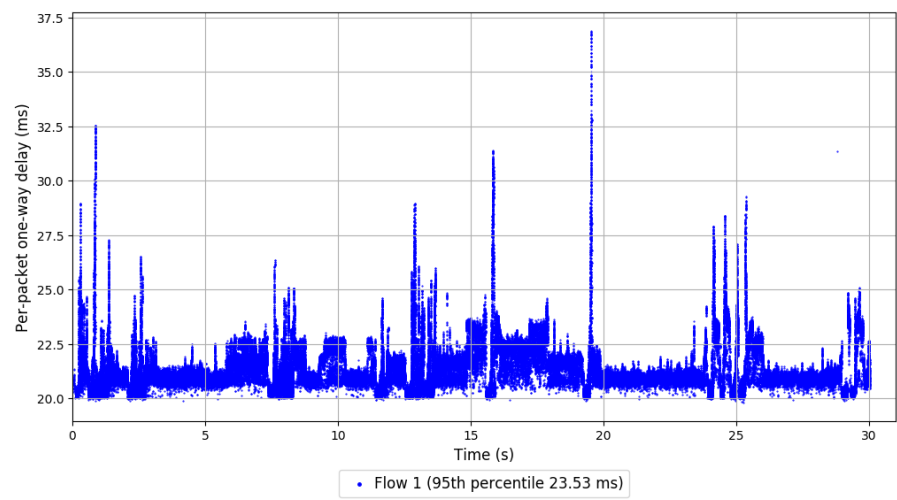
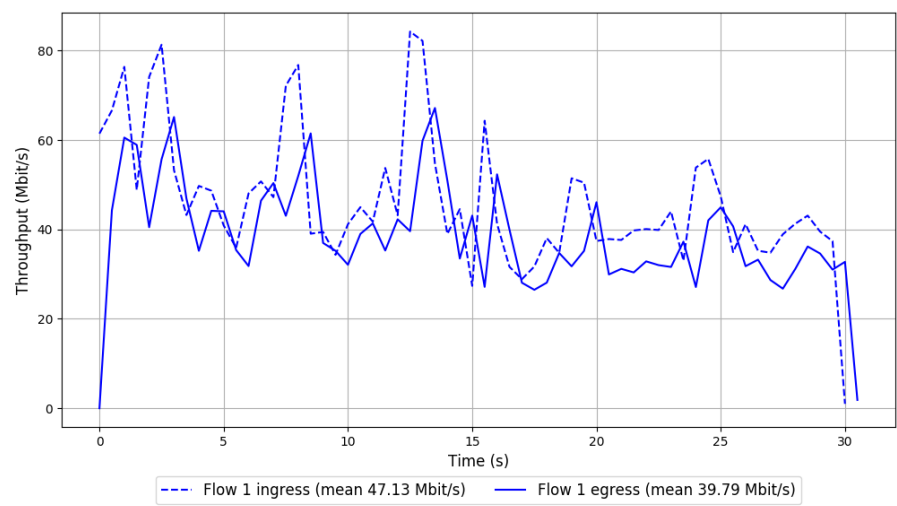


Run 6: Statistics of Copa

Start at: 2018-05-30 10:11:53
End at: 2018-05-30 10:12:23
Local clock offset: -2.128 ms
Remote clock offset: -3.551 ms

Below is generated by plot.py at 2018-05-30 11:29:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 39.79 Mbit/s
95th percentile per-packet one-way delay: 23.526 ms
Loss rate: 15.59%
-- Flow 1:
Average throughput: 39.79 Mbit/s
95th percentile per-packet one-way delay: 23.526 ms
Loss rate: 15.59%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-05-30 10:29:37

End at: 2018-05-30 10:30:07

Local clock offset: 0.763 ms

Remote clock offset: 1.111 ms

Below is generated by plot.py at 2018-05-30 11:30:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.04 Mbit/s

95th percentile per-packet one-way delay: 23.487 ms

Loss rate: 12.66%

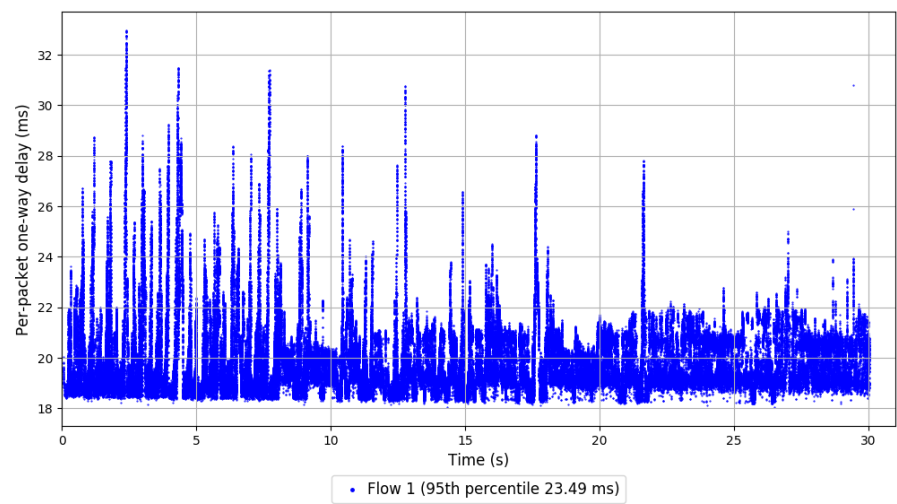
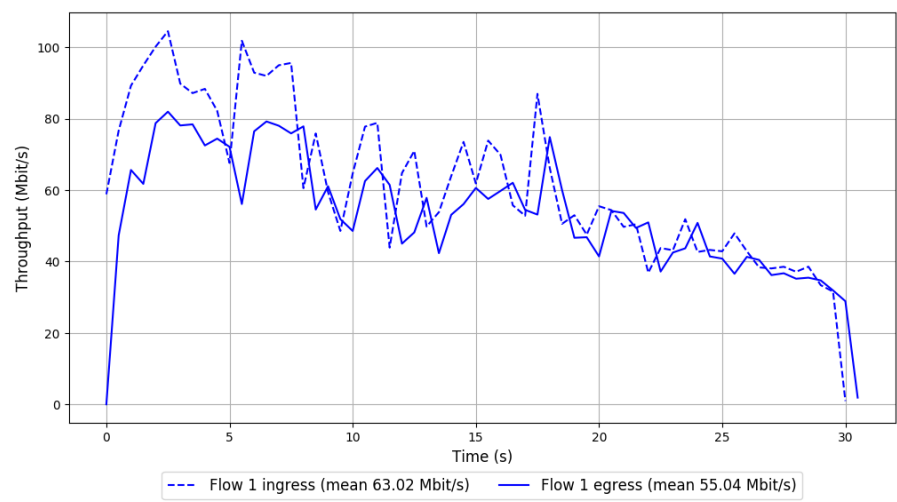
-- Flow 1:

Average throughput: 55.04 Mbit/s

95th percentile per-packet one-way delay: 23.487 ms

Loss rate: 12.66%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-05-30 10:47:27

End at: 2018-05-30 10:47:57

Local clock offset: 3.22 ms

Remote clock offset: 9.294 ms

Below is generated by plot.py at 2018-05-30 11:30:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.08 Mbit/s

95th percentile per-packet one-way delay: 24.177 ms

Loss rate: 16.57%

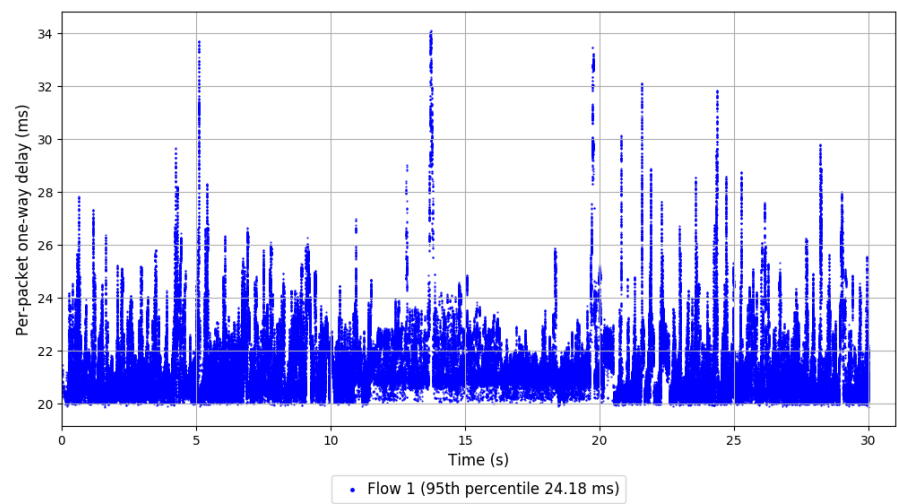
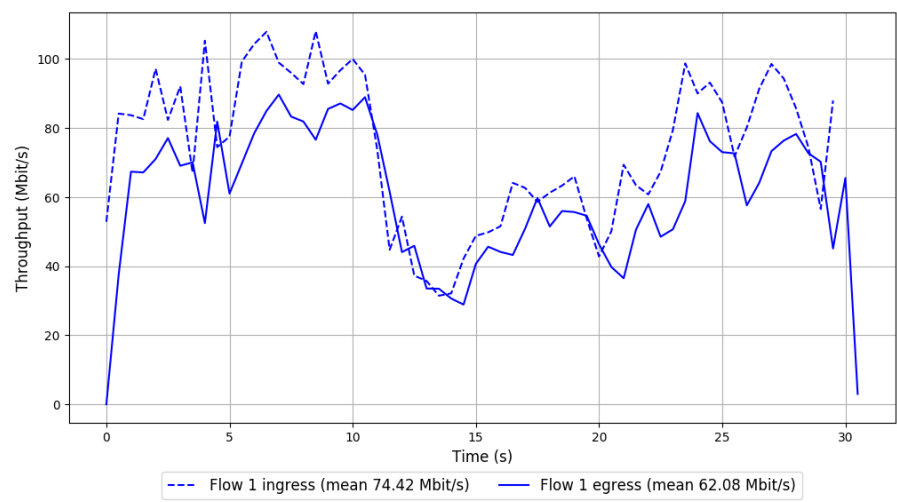
-- Flow 1:

Average throughput: 62.08 Mbit/s

95th percentile per-packet one-way delay: 24.177 ms

Loss rate: 16.57%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-05-30 11:05:26

End at: 2018-05-30 11:05:56

Local clock offset: 0.36 ms

Remote clock offset: 6.094 ms

Below is generated by plot.py at 2018-05-30 11:30:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.06 Mbit/s

95th percentile per-packet one-way delay: 24.775 ms

Loss rate: 17.99%

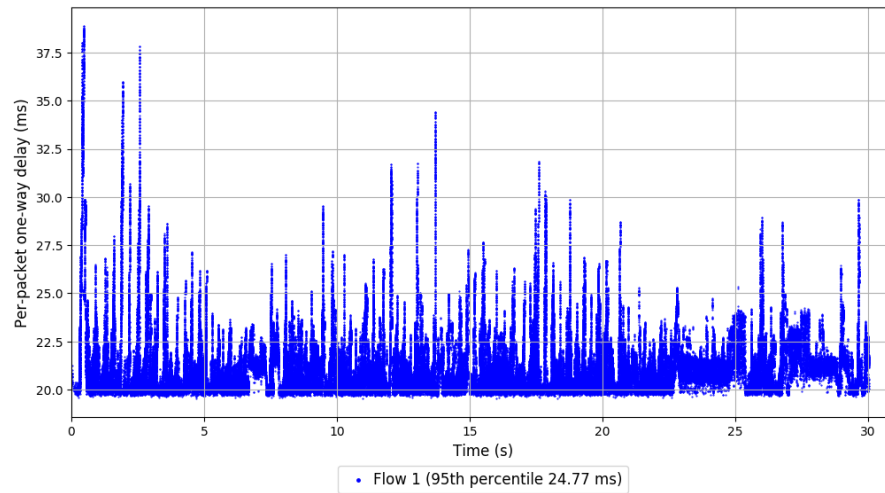
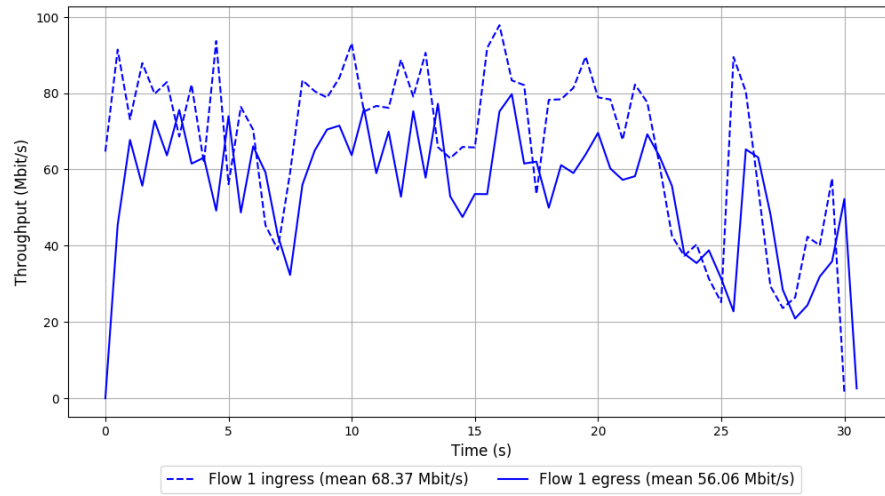
-- Flow 1:

Average throughput: 56.06 Mbit/s

95th percentile per-packet one-way delay: 24.775 ms

Loss rate: 17.99%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-05-30 11:23:35

End at: 2018-05-30 11:24:05

Local clock offset: 4.174 ms

Remote clock offset: 9.598 ms

Below is generated by plot.py at 2018-05-30 11:30:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.73 Mbit/s

95th percentile per-packet one-way delay: 24.664 ms

Loss rate: 14.20%

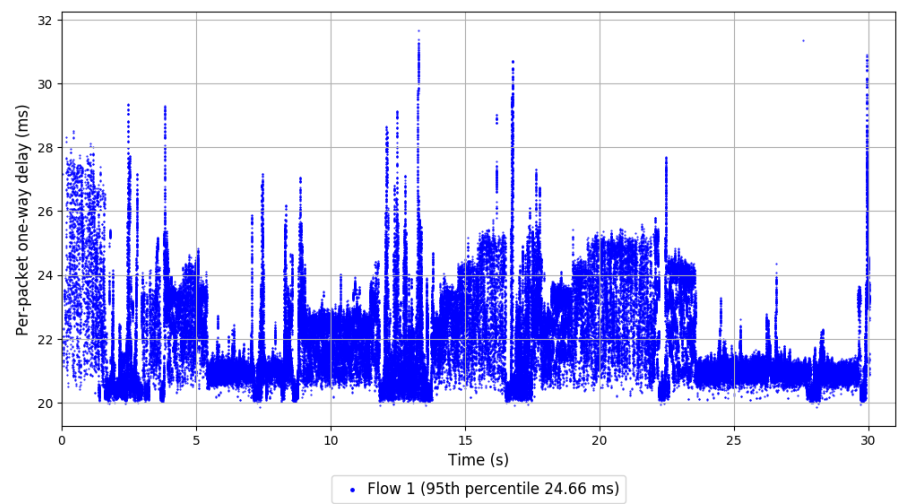
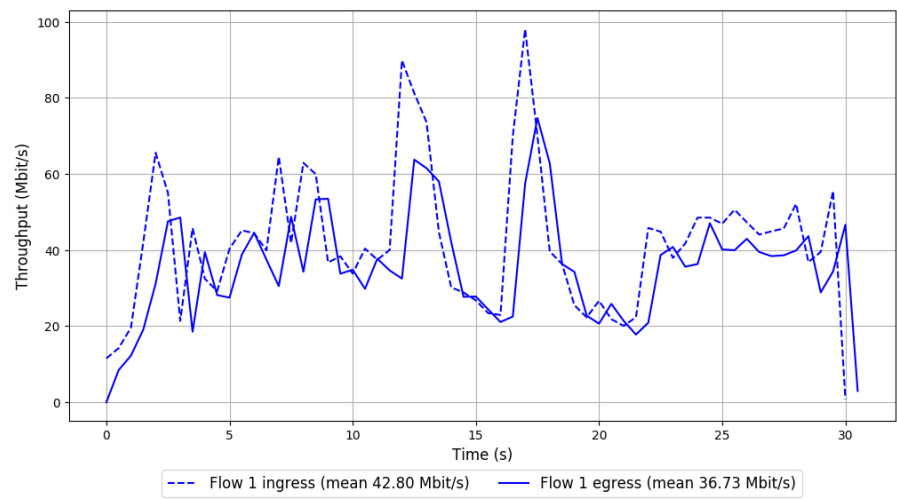
-- Flow 1:

Average throughput: 36.73 Mbit/s

95th percentile per-packet one-way delay: 24.664 ms

Loss rate: 14.20%

Run 10: Report of Copa — Data Link

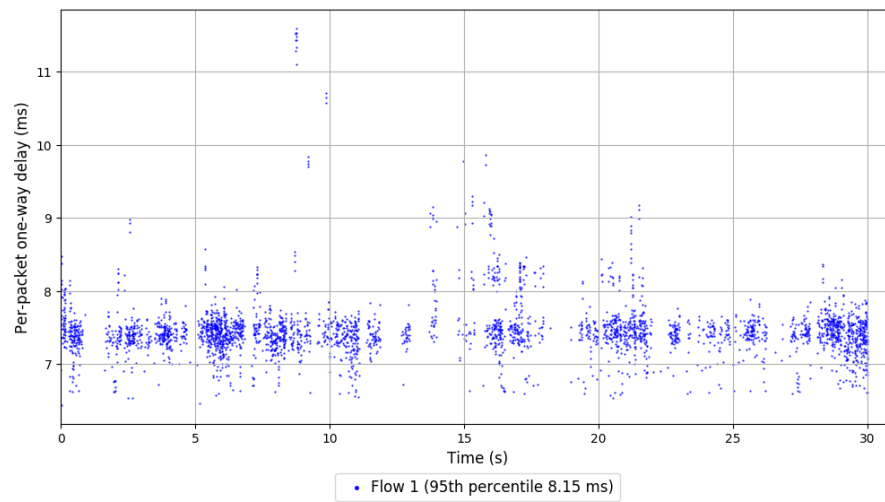
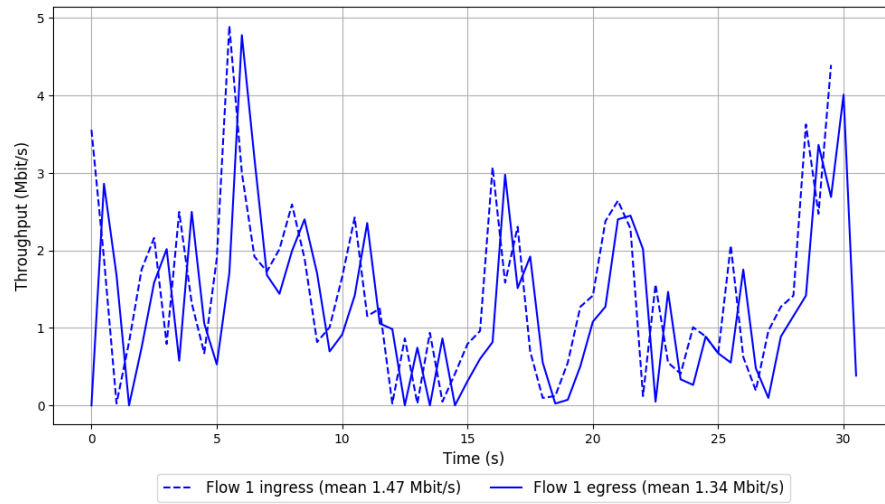


Run 1: Statistics of TCP Cubic

Start at: 2018-05-30 08:39:25
End at: 2018-05-30 08:39:55
Local clock offset: 1.831 ms
Remote clock offset: -16.421 ms

Below is generated by plot.py at 2018-05-30 11:30:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 8.149 ms
Loss rate: 9.07%
-- Flow 1:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 8.149 ms
Loss rate: 9.07%

Run 1: Report of TCP Cubic — Data Link

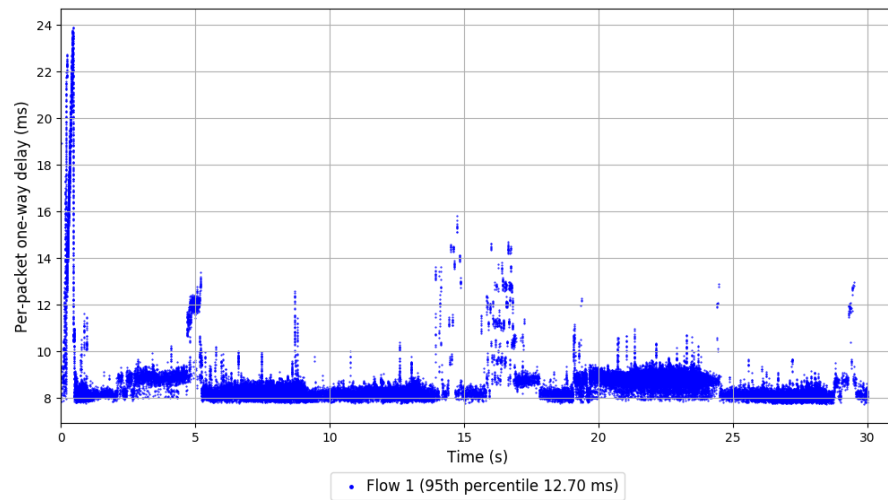
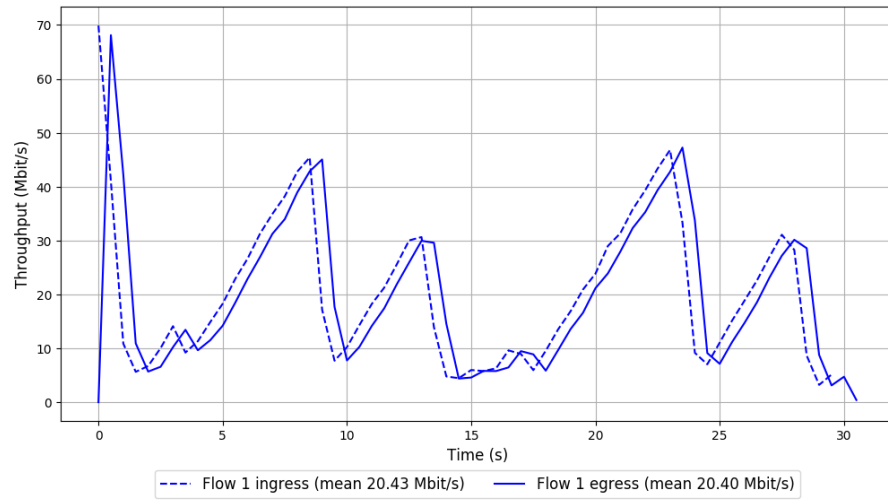


Run 2: Statistics of TCP Cubic

Start at: 2018-05-30 08:57:26
End at: 2018-05-30 08:57:56
Local clock offset: -1.083 ms
Remote clock offset: -10.464 ms

Below is generated by plot.py at 2018-05-30 11:30:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.40 Mbit/s
95th percentile per-packet one-way delay: 12.697 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 20.40 Mbit/s
95th percentile per-packet one-way delay: 12.697 ms
Loss rate: 0.19%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-05-30 09:15:27

End at: 2018-05-30 09:15:57

Local clock offset: -3.204 ms

Remote clock offset: 8.817 ms

Below is generated by plot.py at 2018-05-30 11:30:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 31.296 ms

Loss rate: 1.85%

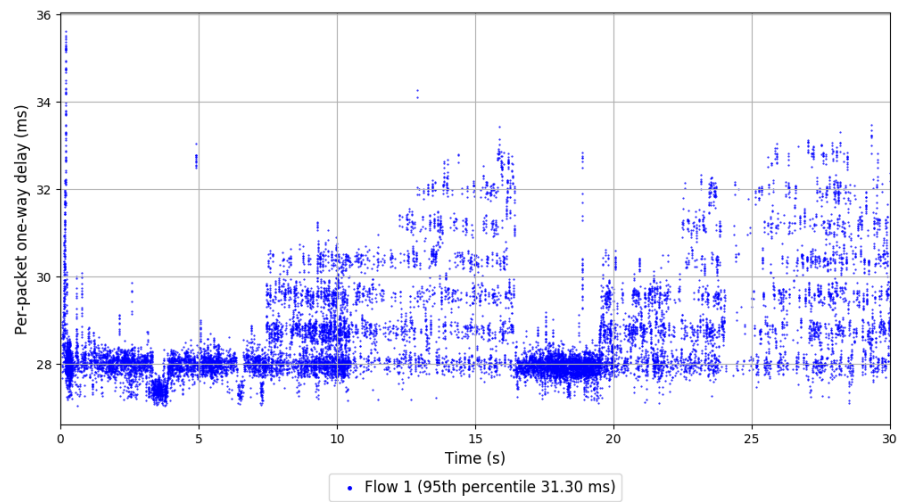
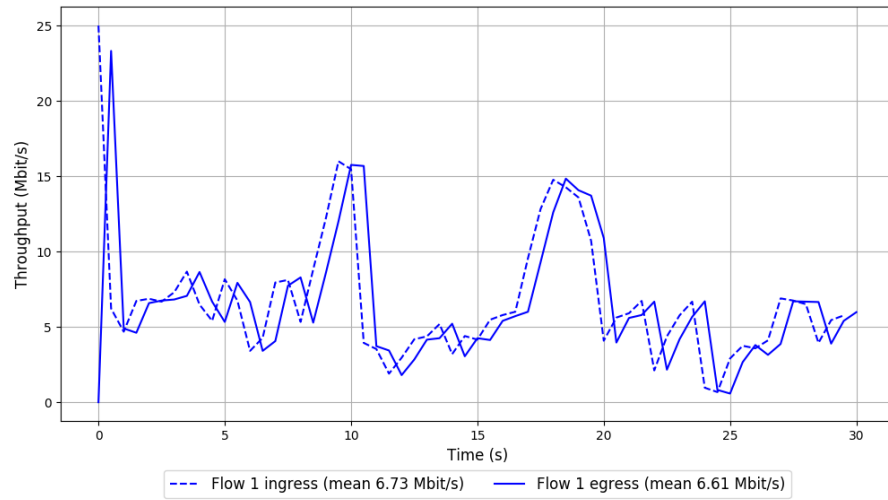
-- Flow 1:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 31.296 ms

Loss rate: 1.85%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-05-30 09:33:25

End at: 2018-05-30 09:33:56

Local clock offset: -0.116 ms

Remote clock offset: 8.363 ms

Below is generated by plot.py at 2018-05-30 11:30:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.55 Mbit/s

95th percentile per-packet one-way delay: 32.445 ms

Loss rate: 1.78%

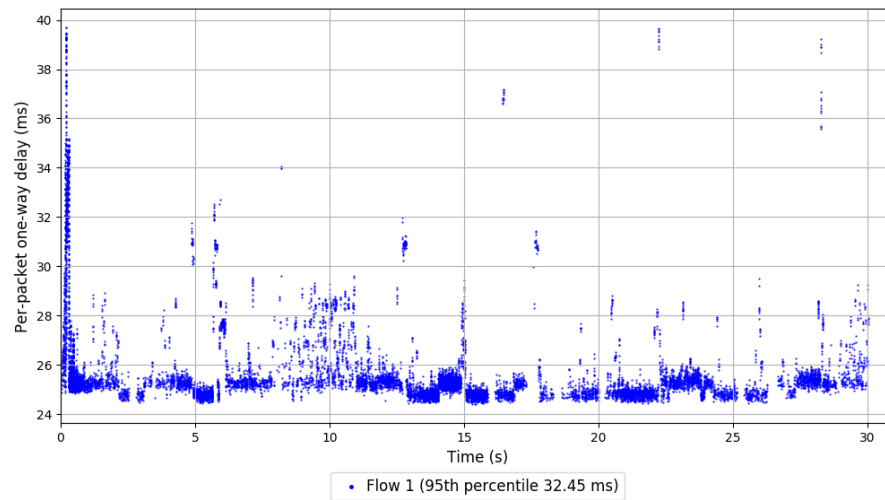
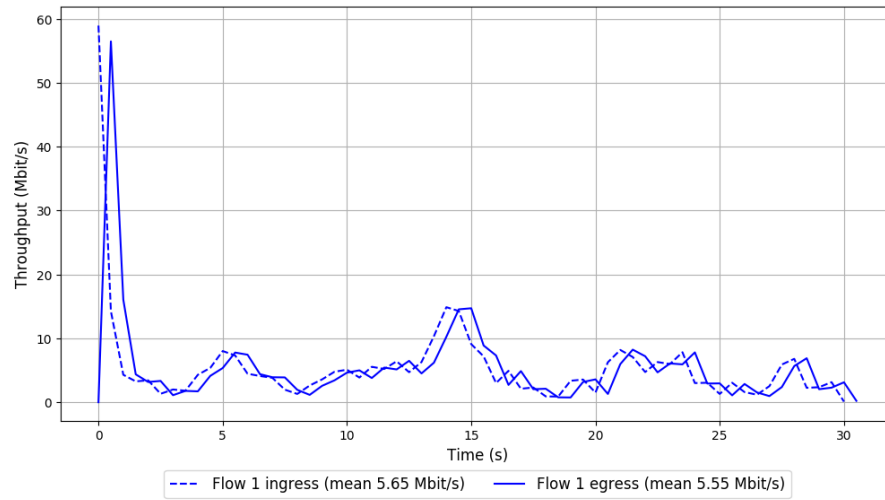
-- Flow 1:

Average throughput: 5.55 Mbit/s

95th percentile per-packet one-way delay: 32.445 ms

Loss rate: 1.78%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-05-30 09:51:39

End at: 2018-05-30 09:52:09

Local clock offset: -0.656 ms

Remote clock offset: 5.411 ms

Below is generated by plot.py at 2018-05-30 11:30:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.07 Mbit/s

95th percentile per-packet one-way delay: 29.945 ms

Loss rate: 2.09%

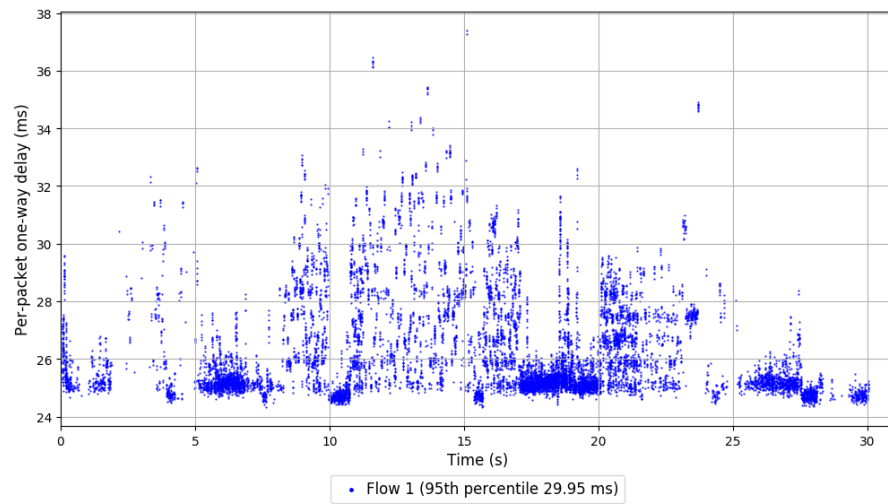
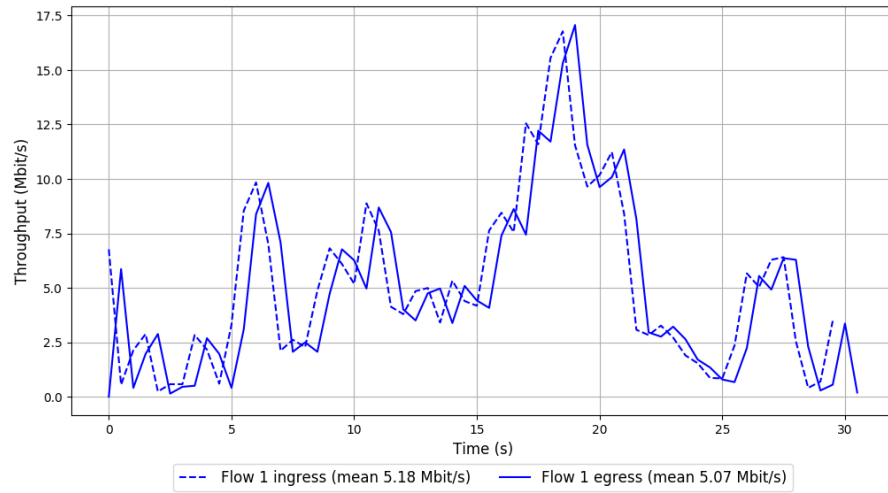
-- Flow 1:

Average throughput: 5.07 Mbit/s

95th percentile per-packet one-way delay: 29.945 ms

Loss rate: 2.09%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-05-30 10:09:40

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

Local clock offset: -1.495 ms

Remote clock offset: 1.322 ms

Below is generated by plot.py at 2018-05-30 11:30:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.80 Mbit/s

95th percentile per-packet one-way delay: 27.432 ms

Loss rate: 3.48%

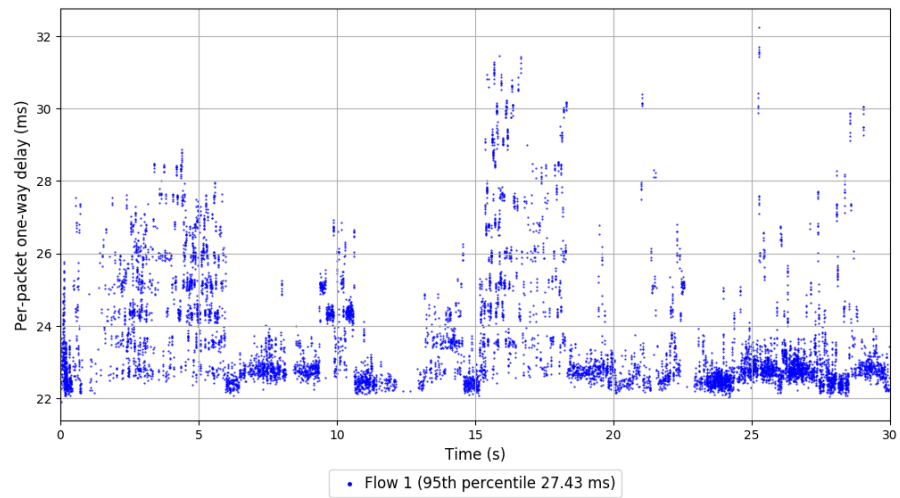
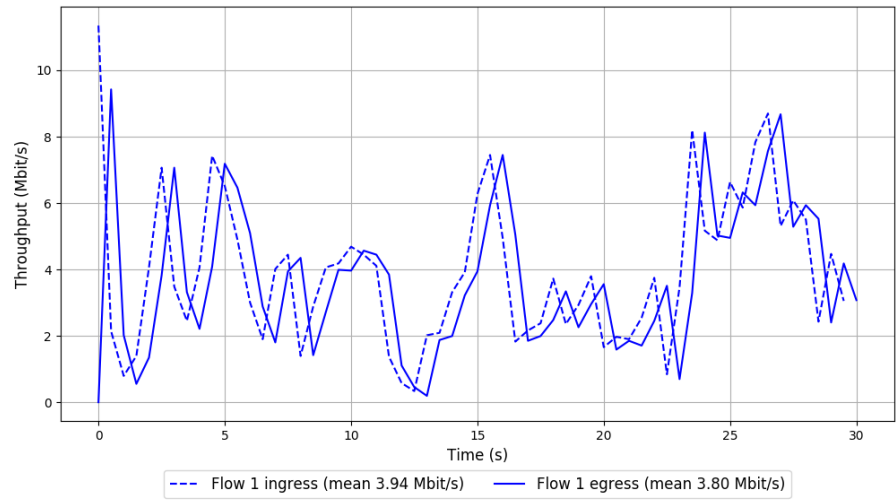
-- Flow 1:

Average throughput: 3.80 Mbit/s

95th percentile per-packet one-way delay: 27.432 ms

Loss rate: 3.48%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-05-30 10:27:24

End at: 2018-05-30 10:27:54

Local clock offset: -0.02 ms

Remote clock offset: 4.451 ms

Below is generated by plot.py at 2018-05-30 11:30:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.45 Mbit/s

95th percentile per-packet one-way delay: 26.299 ms

Loss rate: 2.51%

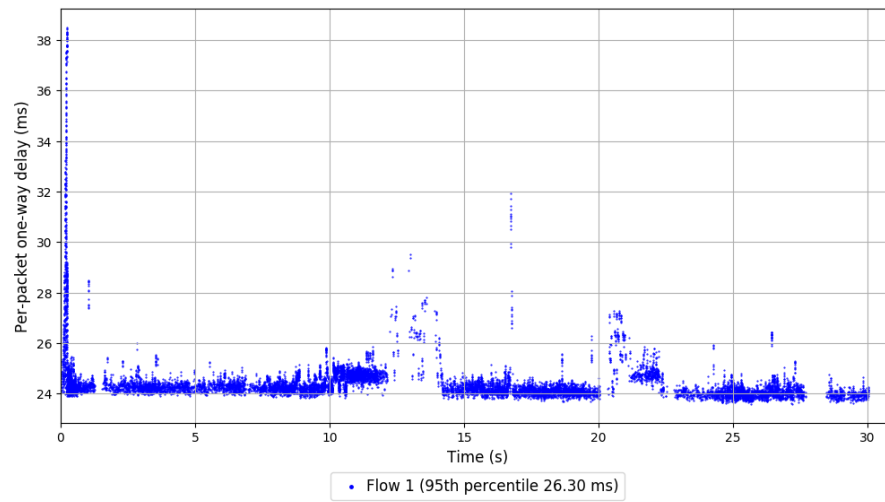
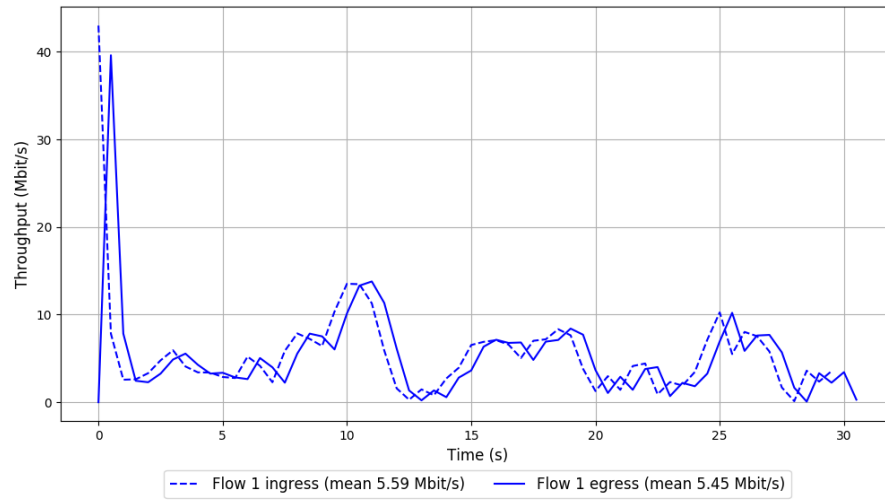
-- Flow 1:

Average throughput: 5.45 Mbit/s

95th percentile per-packet one-way delay: 26.299 ms

Loss rate: 2.51%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-05-30 10:45:11

End at: 2018-05-30 10:45:41

Local clock offset: -0.184 ms

Remote clock offset: 7.817 ms

Below is generated by plot.py at 2018-05-30 11:30:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.76 Mbit/s

95th percentile per-packet one-way delay: 27.274 ms

Loss rate: 1.93%

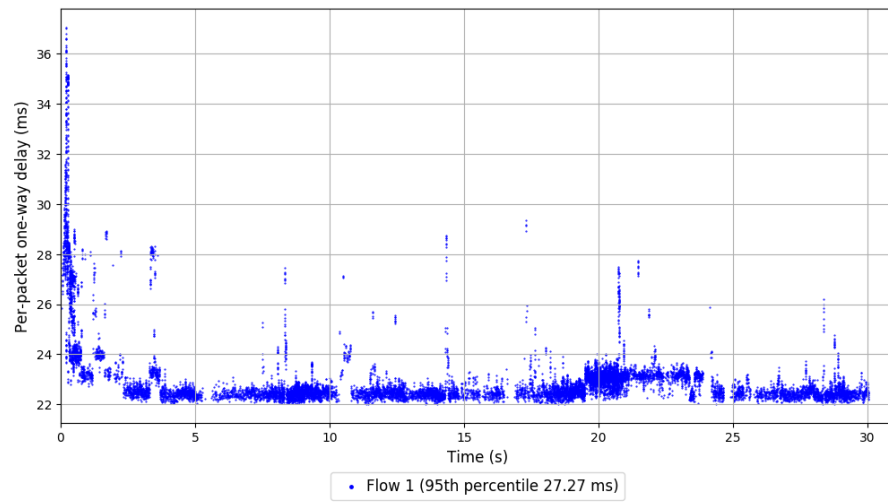
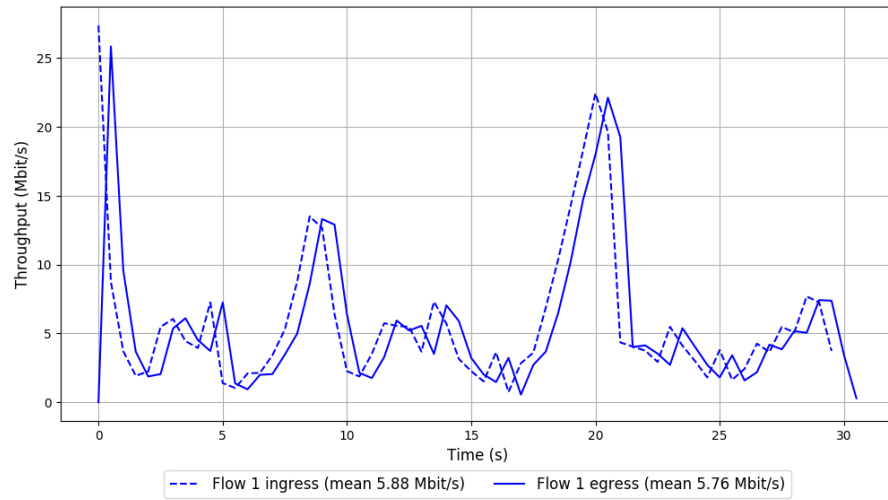
-- Flow 1:

Average throughput: 5.76 Mbit/s

95th percentile per-packet one-way delay: 27.274 ms

Loss rate: 1.93%

Run 8: Report of TCP Cubic — Data Link

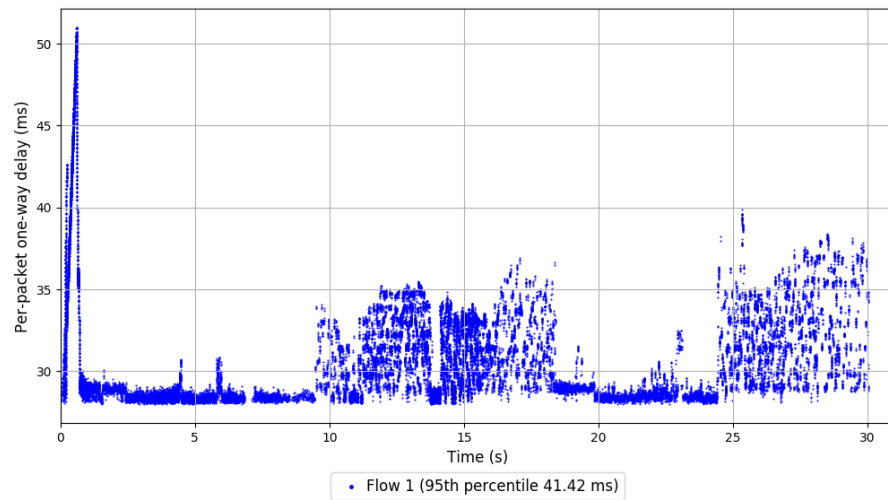
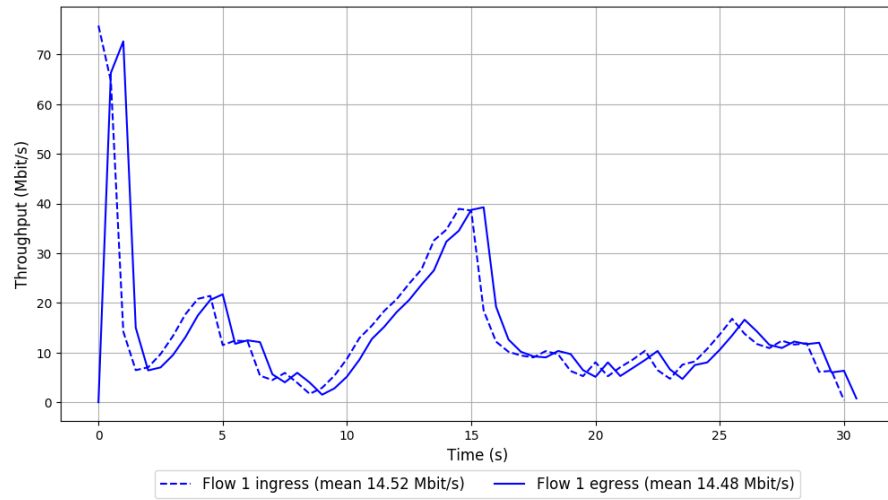


Run 9: Statistics of TCP Cubic

Start at: 2018-05-30 11:03:11
End at: 2018-05-30 11:03:41
Local clock offset: -0.89 ms
Remote clock offset: 12.337 ms

Below is generated by plot.py at 2018-05-30 11:30:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 14.48 Mbit/s
95th percentile per-packet one-way delay: 41.425 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 14.48 Mbit/s
95th percentile per-packet one-way delay: 41.425 ms
Loss rate: 0.28%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-05-30 11:21:18

End at: 2018-05-30 11:21:48

Local clock offset: 2.858 ms

Remote clock offset: 7.283 ms

Below is generated by plot.py at 2018-05-30 11:30:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.81 Mbit/s

95th percentile per-packet one-way delay: 24.891 ms

Loss rate: 2.15%

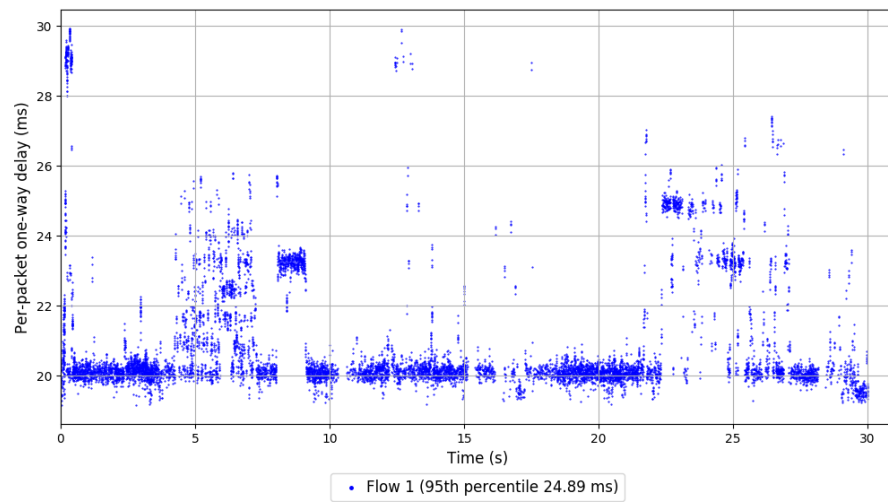
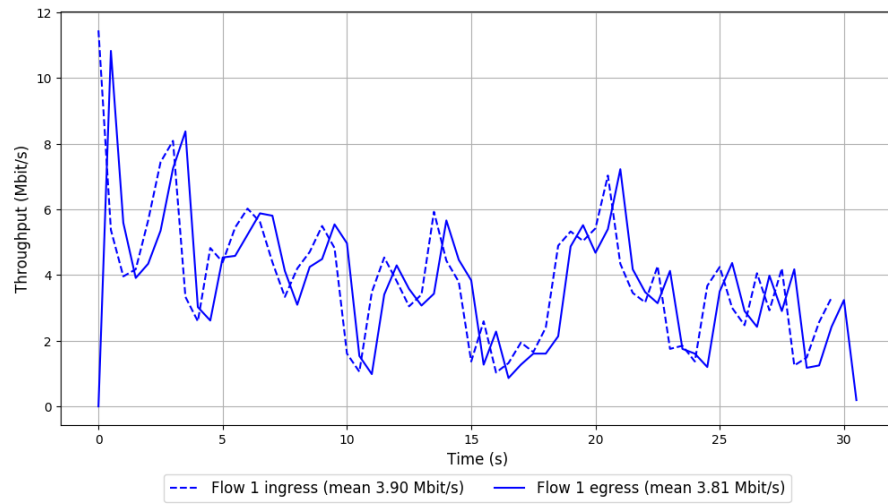
-- Flow 1:

Average throughput: 3.81 Mbit/s

95th percentile per-packet one-way delay: 24.891 ms

Loss rate: 2.15%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-05-30 08:32:41

End at: 2018-05-30 08:33:11

Local clock offset: 0.551 ms

Remote clock offset: -14.099 ms

Below is generated by plot.py at 2018-05-30 11:30:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.74 Mbit/s

95th percentile per-packet one-way delay: 17.081 ms

Loss rate: 17.07%

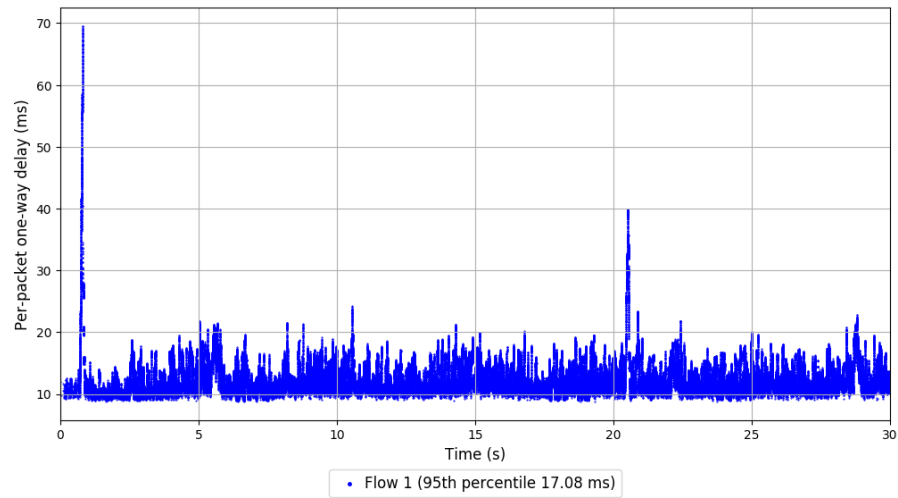
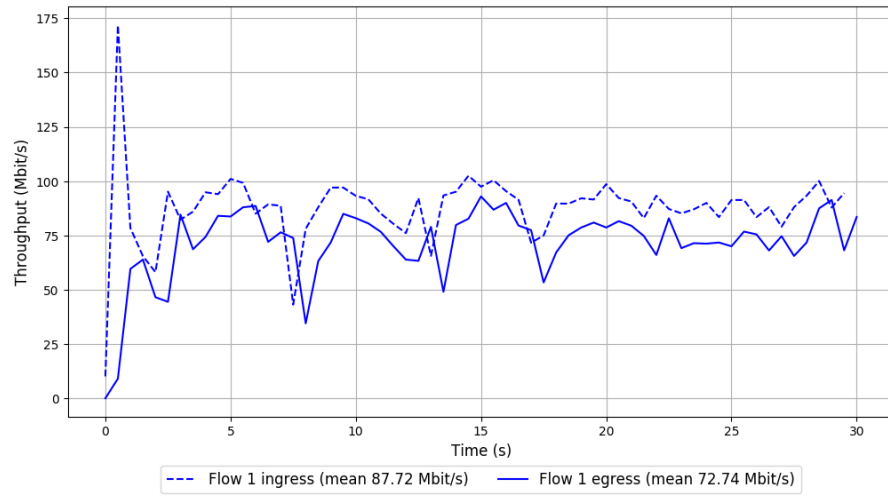
-- Flow 1:

Average throughput: 72.74 Mbit/s

95th percentile per-packet one-way delay: 17.081 ms

Loss rate: 17.07%

Run 1: Report of FillP — Data Link

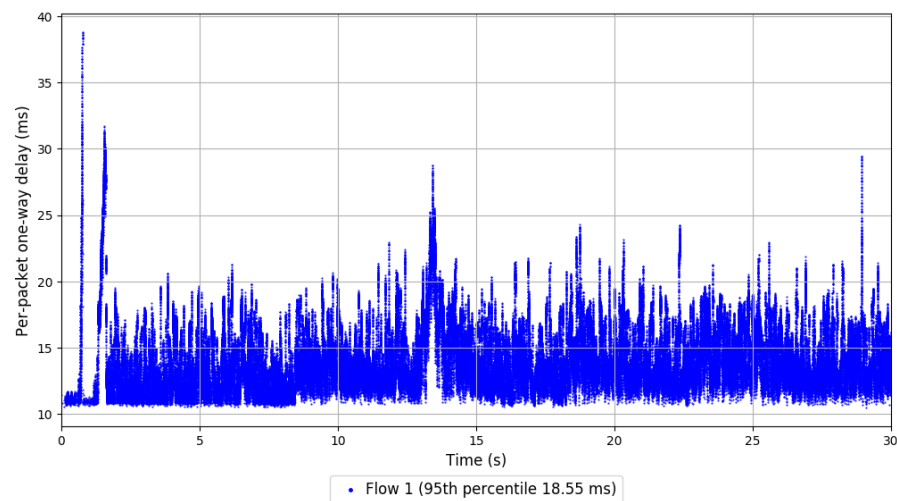
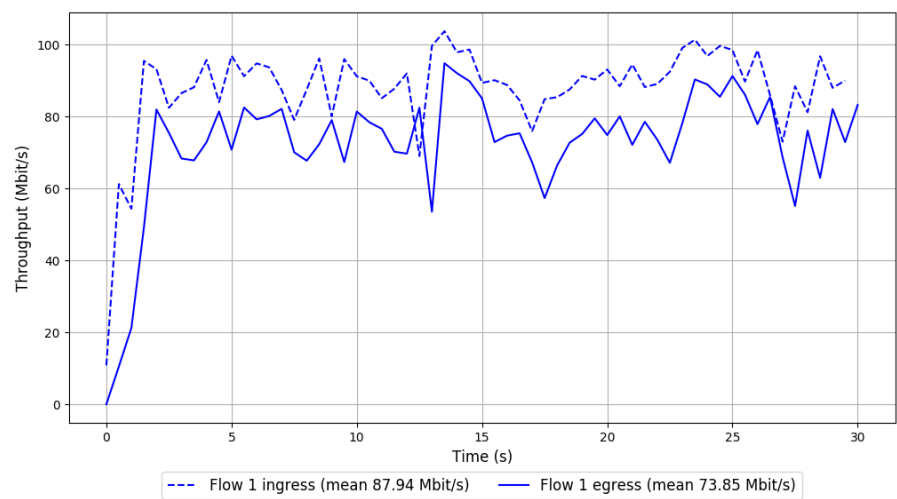


Run 2: Statistics of FillP

Start at: 2018-05-30 08:50:51
End at: 2018-05-30 08:51:21
Local clock offset: 0.177 ms
Remote clock offset: -8.167 ms

Below is generated by plot.py at 2018-05-30 11:30:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.85 Mbit/s
95th percentile per-packet one-way delay: 18.547 ms
Loss rate: 16.01%
-- Flow 1:
Average throughput: 73.85 Mbit/s
95th percentile per-packet one-way delay: 18.547 ms
Loss rate: 16.01%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-05-30 09:08:51

End at: 2018-05-30 09:09:21

Local clock offset: -1.466 ms

Remote clock offset: 3.745 ms

Below is generated by plot.py at 2018-05-30 11:30:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.36 Mbit/s

95th percentile per-packet one-way delay: 29.281 ms

Loss rate: 18.15%

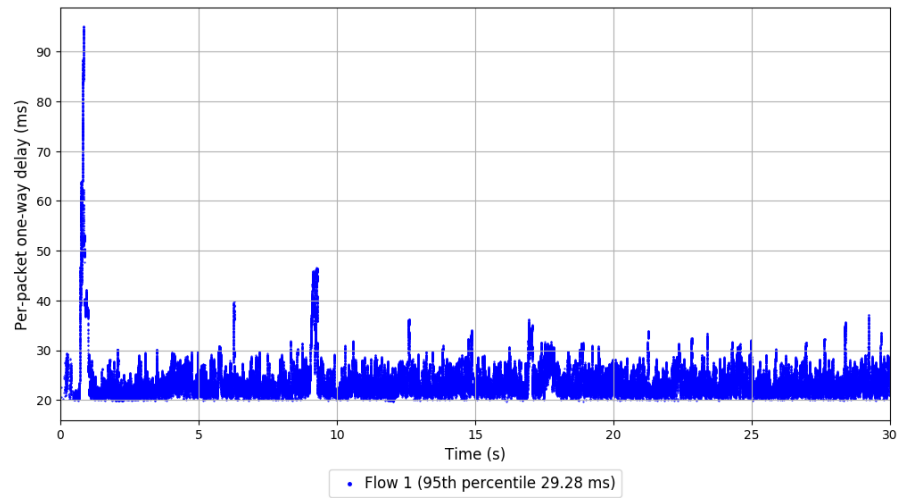
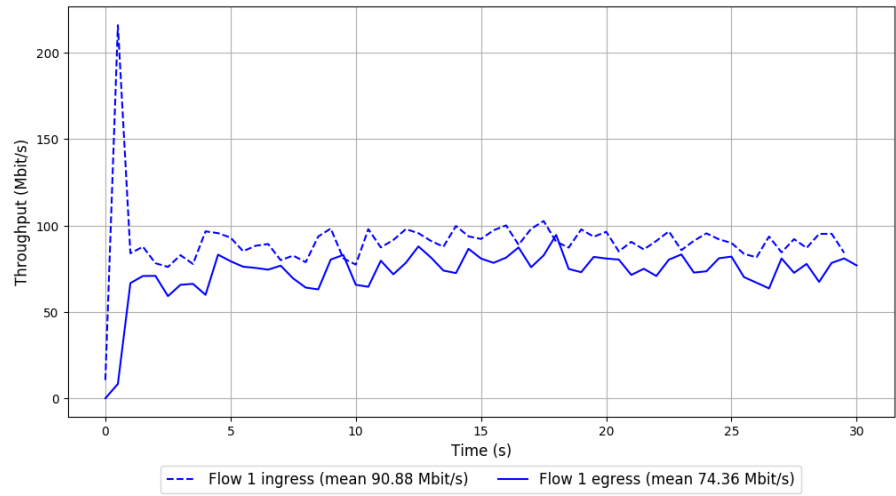
-- Flow 1:

Average throughput: 74.36 Mbit/s

95th percentile per-packet one-way delay: 29.281 ms

Loss rate: 18.15%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-05-30 09:26:50

End at: 2018-05-30 09:27:20

Local clock offset: -2.006 ms

Remote clock offset: 6.32 ms

Below is generated by plot.py at 2018-05-30 11:30:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.82 Mbit/s

95th percentile per-packet one-way delay: 43.160 ms

Loss rate: 15.49%

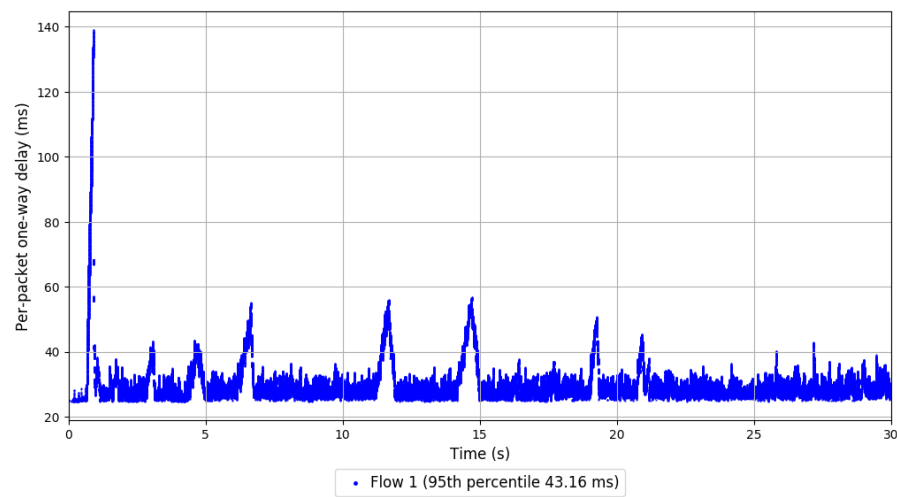
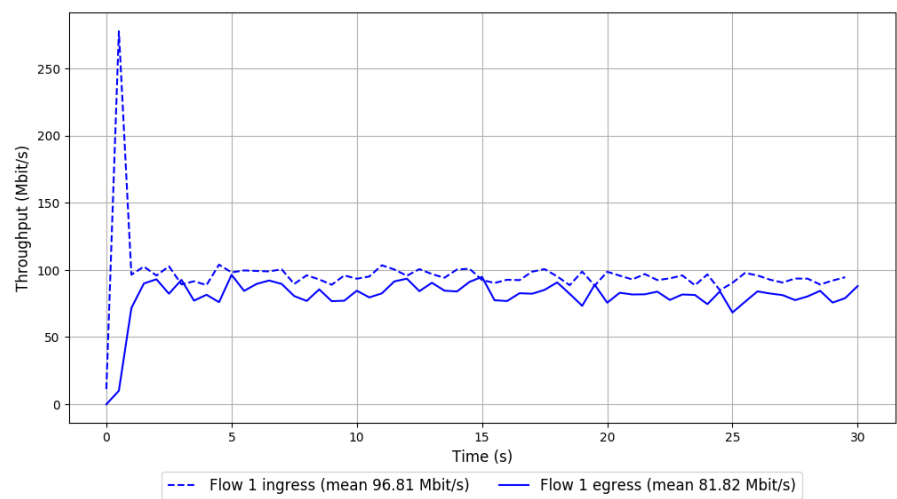
-- Flow 1:

Average throughput: 81.82 Mbit/s

95th percentile per-packet one-way delay: 43.160 ms

Loss rate: 15.49%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-05-30 09:45:00

End at: 2018-05-30 09:45:30

Local clock offset: -0.508 ms

Remote clock offset: 3.868 ms

Below is generated by plot.py at 2018-05-30 11:31:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.52 Mbit/s

95th percentile per-packet one-way delay: 31.927 ms

Loss rate: 18.26%

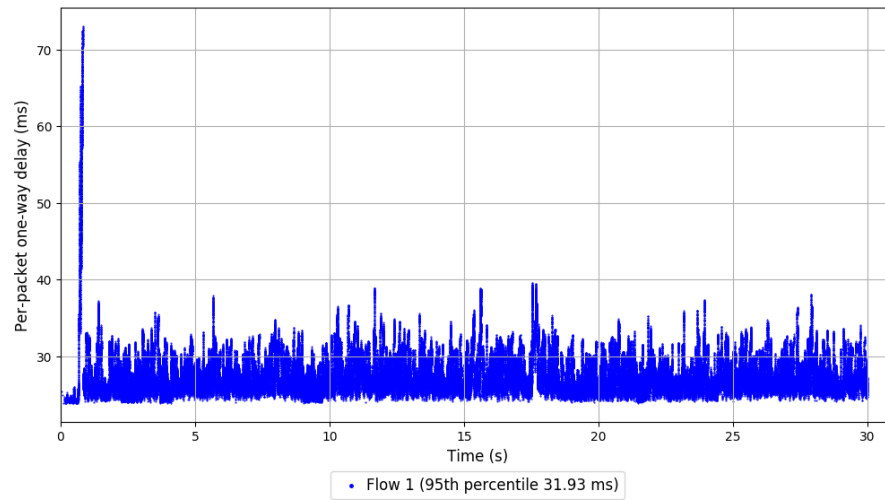
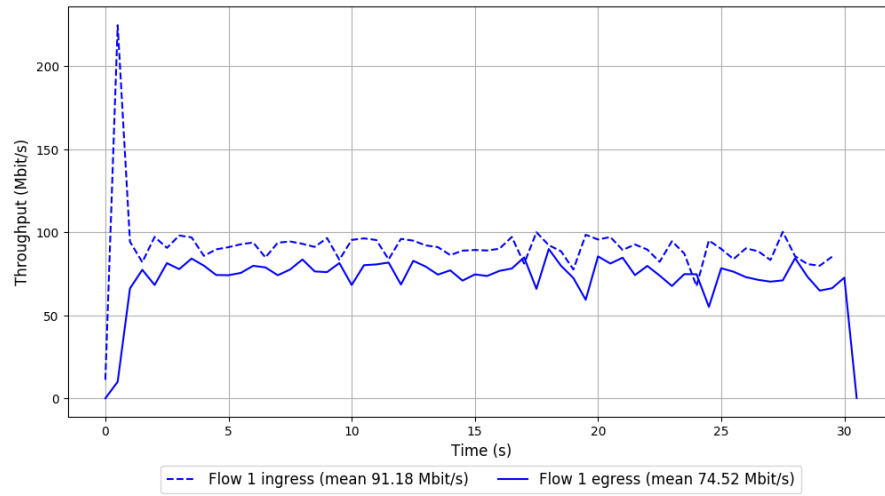
-- Flow 1:

Average throughput: 74.52 Mbit/s

95th percentile per-packet one-way delay: 31.927 ms

Loss rate: 18.26%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-05-30 10:02:59

End at: 2018-05-30 10:03:29

Local clock offset: -0.38 ms

Remote clock offset: 3.754 ms

Below is generated by plot.py at 2018-05-30 11:31:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.84 Mbit/s

95th percentile per-packet one-way delay: 32.660 ms

Loss rate: 16.87%

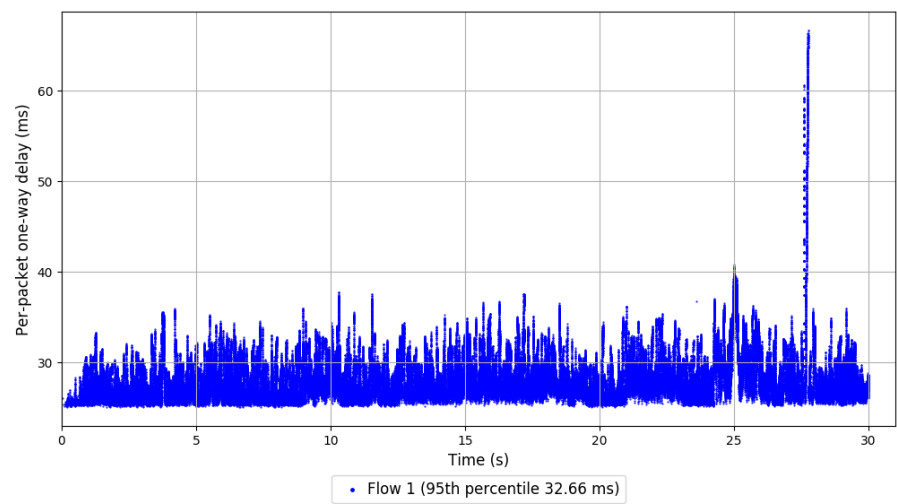
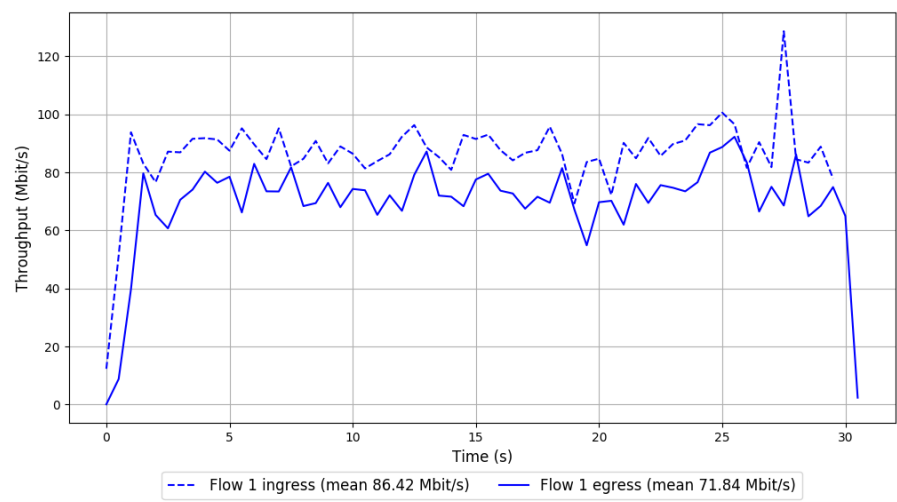
-- Flow 1:

Average throughput: 71.84 Mbit/s

95th percentile per-packet one-way delay: 32.660 ms

Loss rate: 16.87%

Run 6: Report of FillP — Data Link

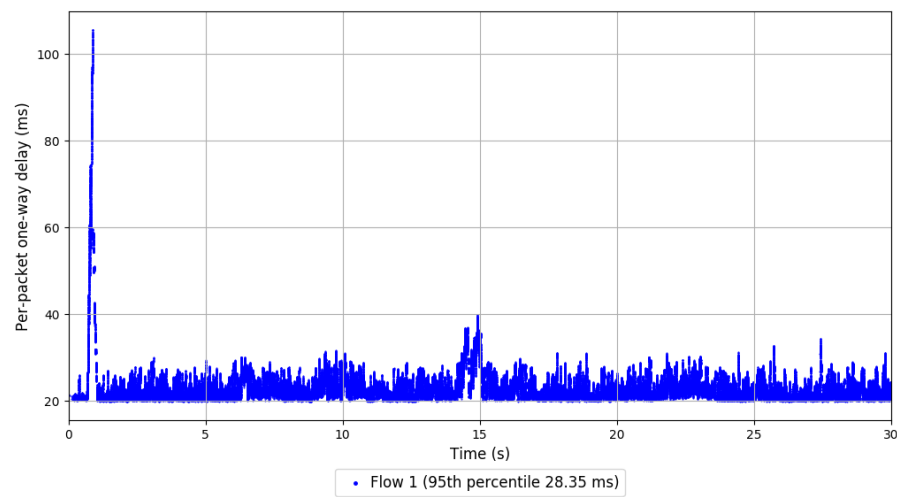
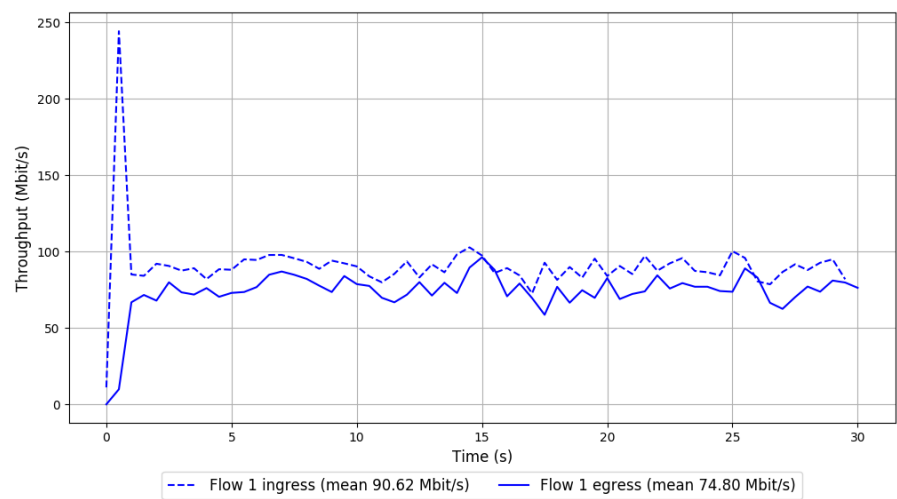


Run 7: Statistics of FillP

Start at: 2018-05-30 10:20:52
End at: 2018-05-30 10:21:22
Local clock offset: -1.976 ms
Remote clock offset: -2.192 ms

Below is generated by plot.py at 2018-05-30 11:31:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 74.80 Mbit/s
95th percentile per-packet one-way delay: 28.348 ms
Loss rate: 17.45%
-- Flow 1:
Average throughput: 74.80 Mbit/s
95th percentile per-packet one-way delay: 28.348 ms
Loss rate: 17.45%

Run 7: Report of FillP — Data Link

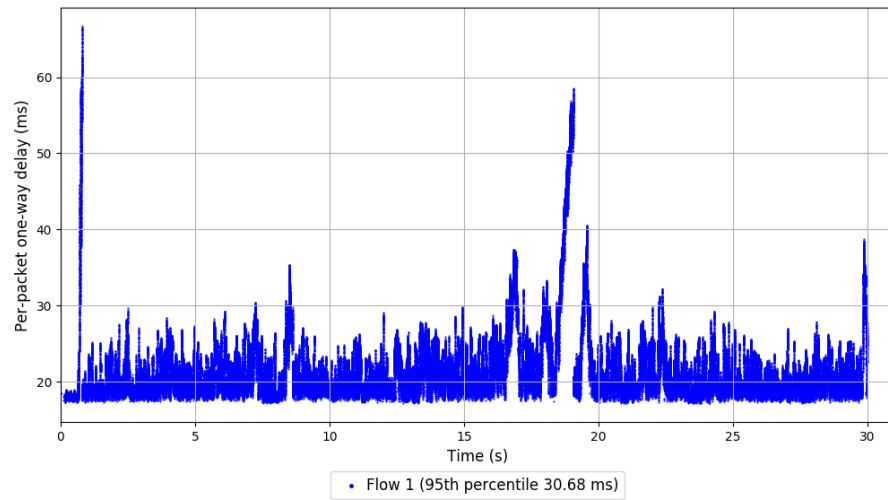
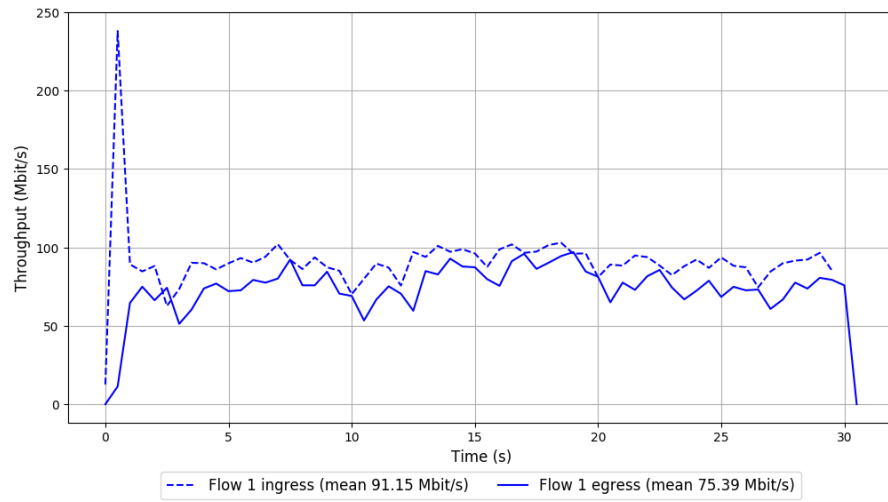


Run 8: Statistics of FillP

Start at: 2018-05-30 10:38:40
End at: 2018-05-30 10:39:10
Local clock offset: -2.807 ms
Remote clock offset: -0.738 ms

Below is generated by plot.py at 2018-05-30 11:31:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.39 Mbit/s
95th percentile per-packet one-way delay: 30.682 ms
Loss rate: 17.27%
-- Flow 1:
Average throughput: 75.39 Mbit/s
95th percentile per-packet one-way delay: 30.682 ms
Loss rate: 17.27%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-05-30 10:56:37

End at: 2018-05-30 10:57:07

Local clock offset: 1.68 ms

Remote clock offset: 6.578 ms

Below is generated by plot.py at 2018-05-30 11:31:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.30 Mbit/s

95th percentile per-packet one-way delay: 32.542 ms

Loss rate: 15.97%

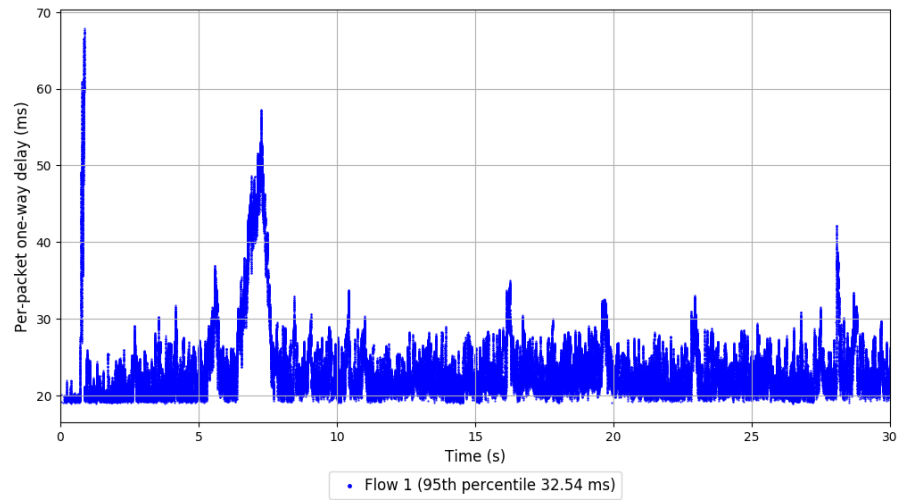
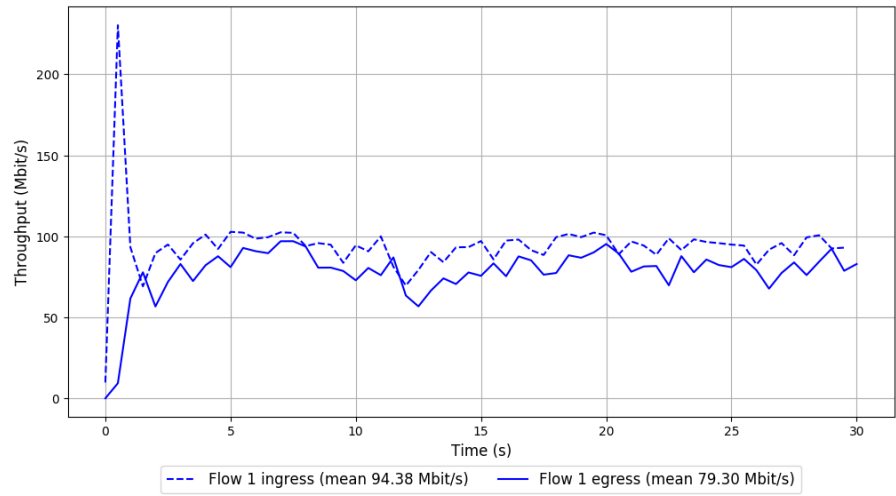
-- Flow 1:

Average throughput: 79.30 Mbit/s

95th percentile per-packet one-way delay: 32.542 ms

Loss rate: 15.97%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-05-30 11:14:42

End at: 2018-05-30 11:15:12

Local clock offset: -1.058 ms

Remote clock offset: 5.559 ms

Below is generated by plot.py at 2018-05-30 11:31:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.13 Mbit/s

95th percentile per-packet one-way delay: 31.987 ms

Loss rate: 16.06%

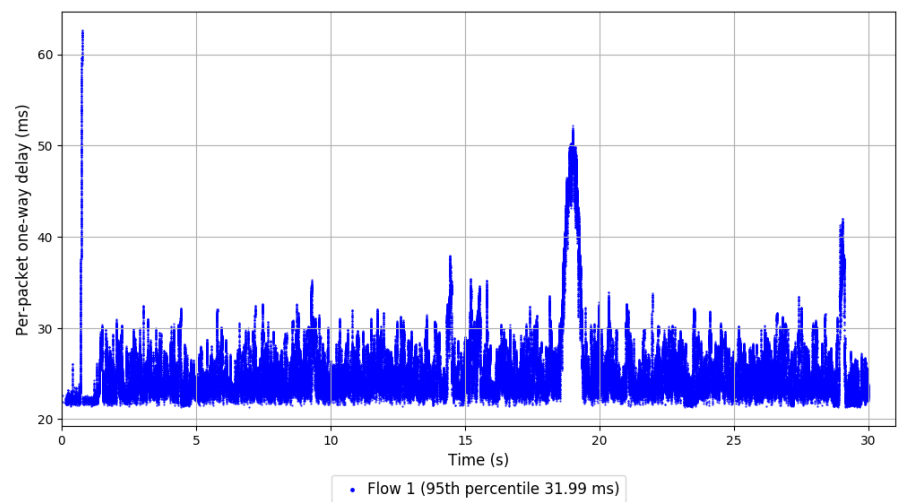
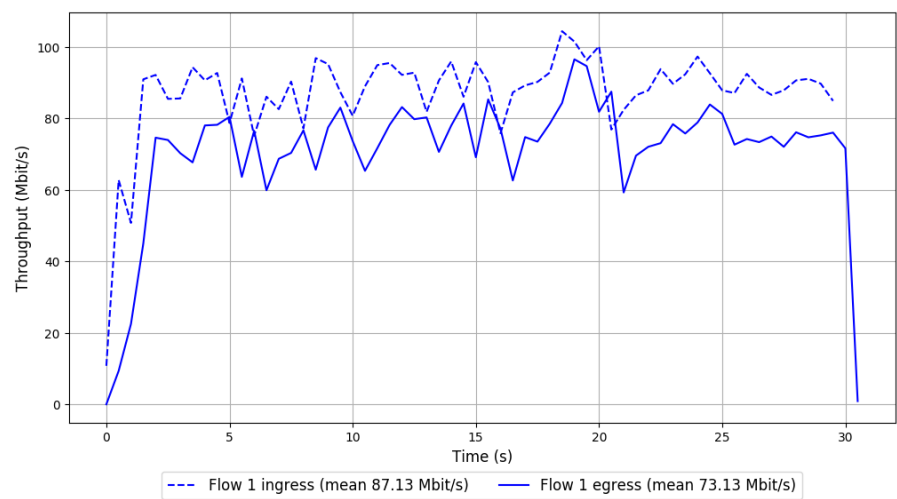
-- Flow 1:

Average throughput: 73.13 Mbit/s

95th percentile per-packet one-way delay: 31.987 ms

Loss rate: 16.06%

Run 10: Report of FillP — Data Link

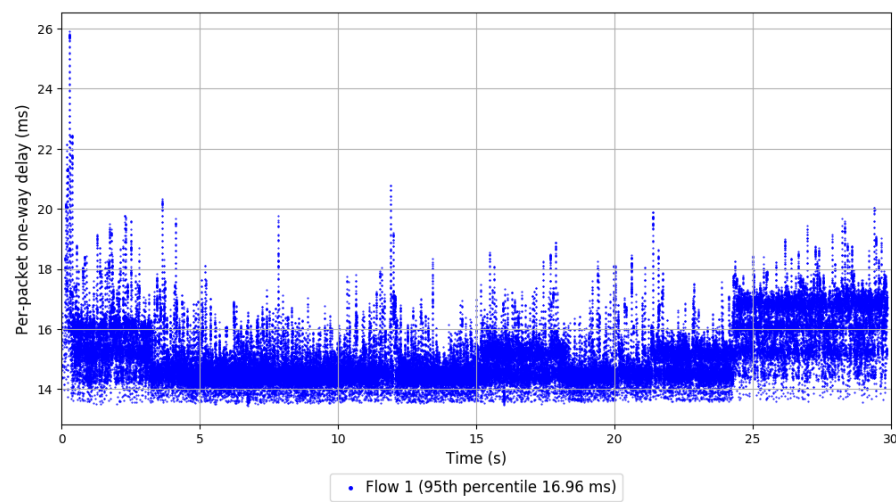
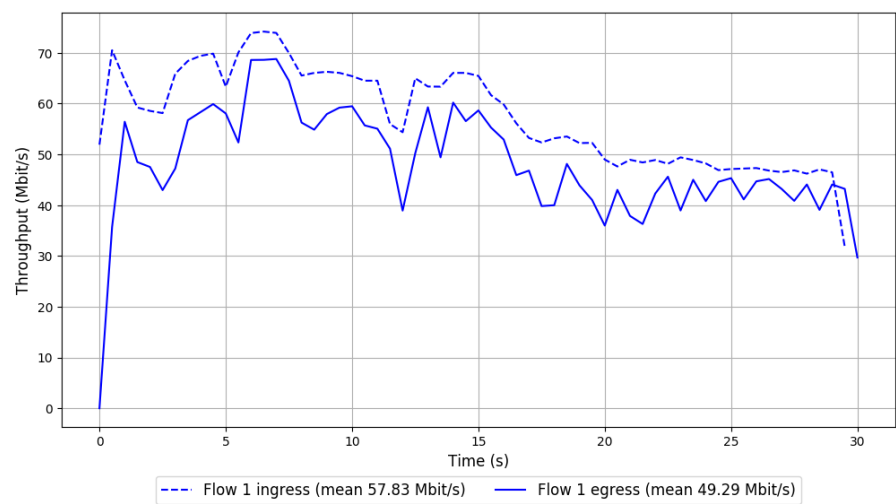


Run 1: Statistics of Indigo

Start at: 2018-05-30 08:29:17
End at: 2018-05-30 08:29:47
Local clock offset: -0.325 ms
Remote clock offset: -10.727 ms

Below is generated by plot.py at 2018-05-30 11:31:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 49.29 Mbit/s
95th percentile per-packet one-way delay: 16.965 ms
Loss rate: 14.78%
-- Flow 1:
Average throughput: 49.29 Mbit/s
95th percentile per-packet one-way delay: 16.965 ms
Loss rate: 14.78%

Run 1: Report of Indigo — Data Link

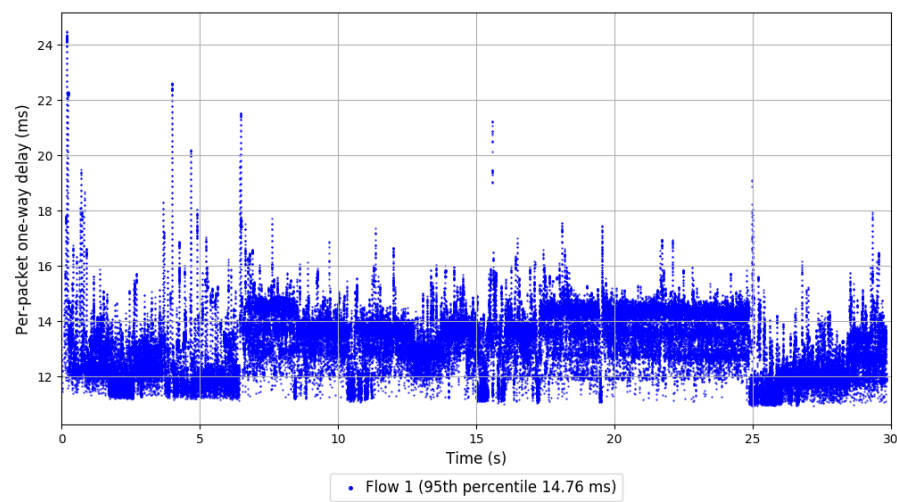
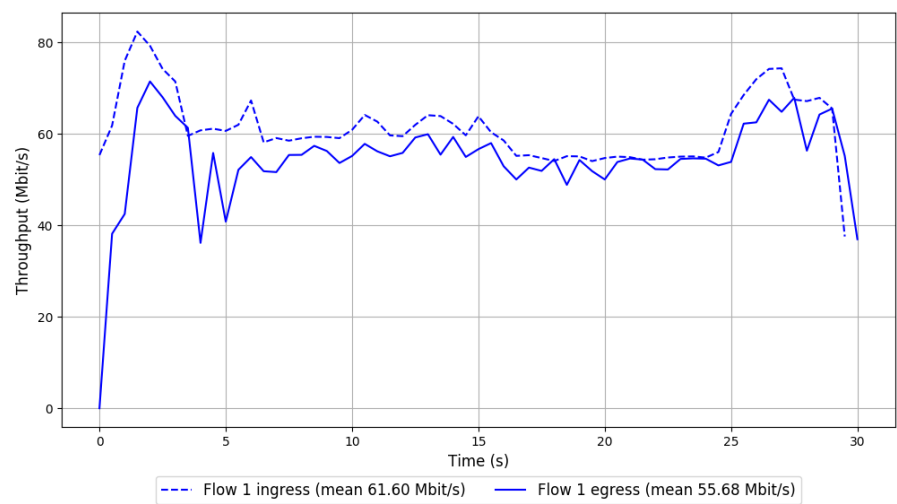


Run 2: Statistics of Indigo

Start at: 2018-05-30 08:47:30
End at: 2018-05-30 08:48:00
Local clock offset: -2.038 ms
Remote clock offset: -11.725 ms

Below is generated by plot.py at 2018-05-30 11:31:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 55.68 Mbit/s
95th percentile per-packet one-way delay: 14.760 ms
Loss rate: 9.61%
-- Flow 1:
Average throughput: 55.68 Mbit/s
95th percentile per-packet one-way delay: 14.760 ms
Loss rate: 9.61%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-05-30 09:05:27

End at: 2018-05-30 09:05:57

Local clock offset: 0.138 ms

Remote clock offset: 1.296 ms

Below is generated by plot.py at 2018-05-30 11:31:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.74 Mbit/s

95th percentile per-packet one-way delay: 21.435 ms

Loss rate: 7.63%

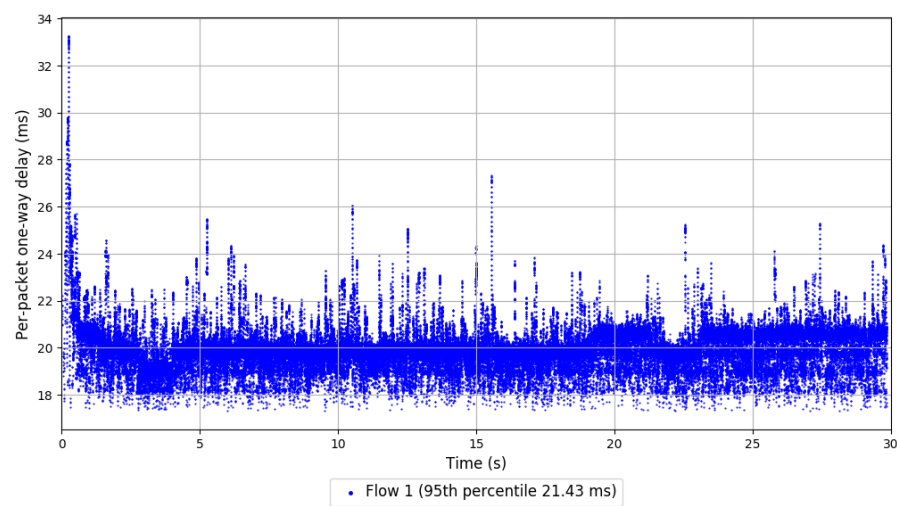
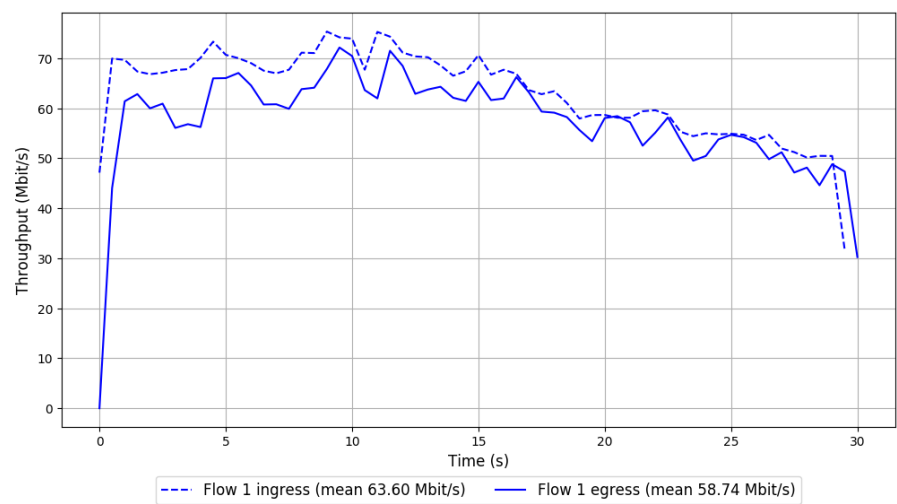
-- Flow 1:

Average throughput: 58.74 Mbit/s

95th percentile per-packet one-way delay: 21.435 ms

Loss rate: 7.63%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-05-30 09:23:28

End at: 2018-05-30 09:23:58

Local clock offset: -3.049 ms

Remote clock offset: 7.021 ms

Below is generated by plot.py at 2018-05-30 11:32:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.88 Mbit/s

95th percentile per-packet one-way delay: 29.815 ms

Loss rate: 10.87%

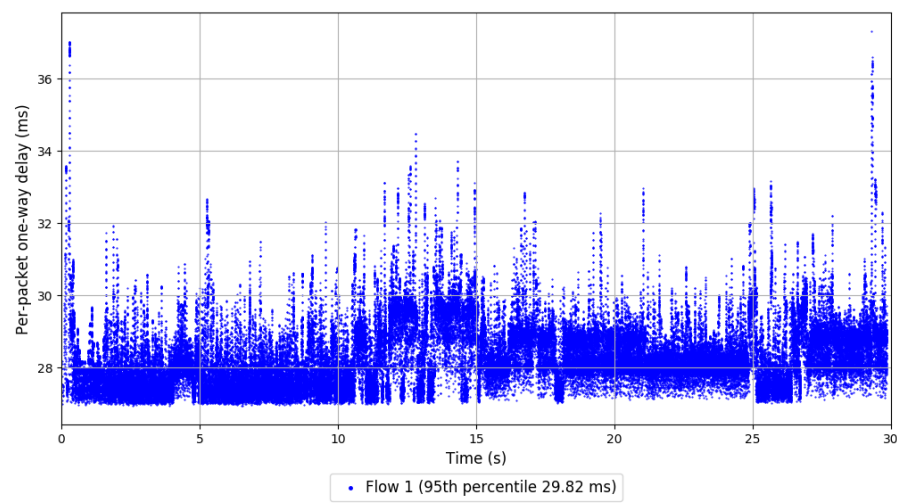
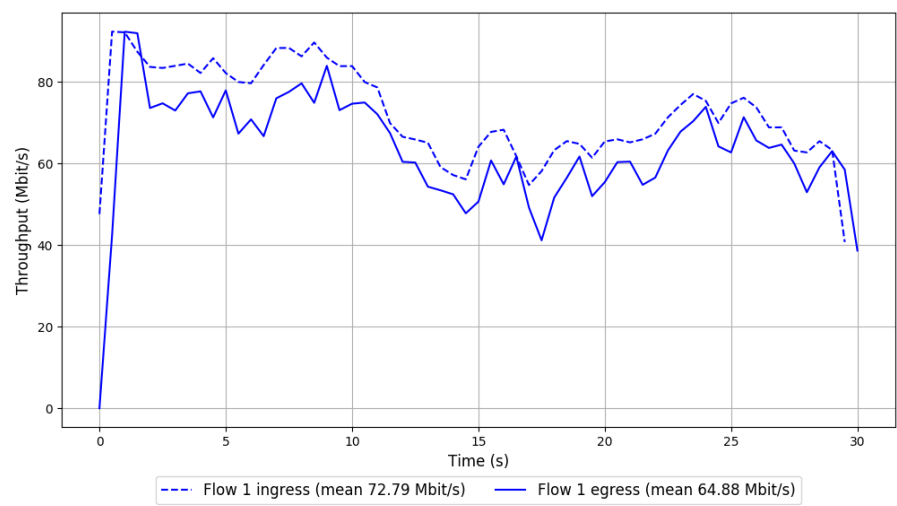
-- Flow 1:

Average throughput: 64.88 Mbit/s

95th percentile per-packet one-way delay: 29.815 ms

Loss rate: 10.87%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-05-30 09:41:33

End at: 2018-05-30 09:42:03

Local clock offset: 0.859 ms

Remote clock offset: 3.415 ms

Below is generated by plot.py at 2018-05-30 11:32:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.60 Mbit/s

95th percentile per-packet one-way delay: 24.157 ms

Loss rate: 8.35%

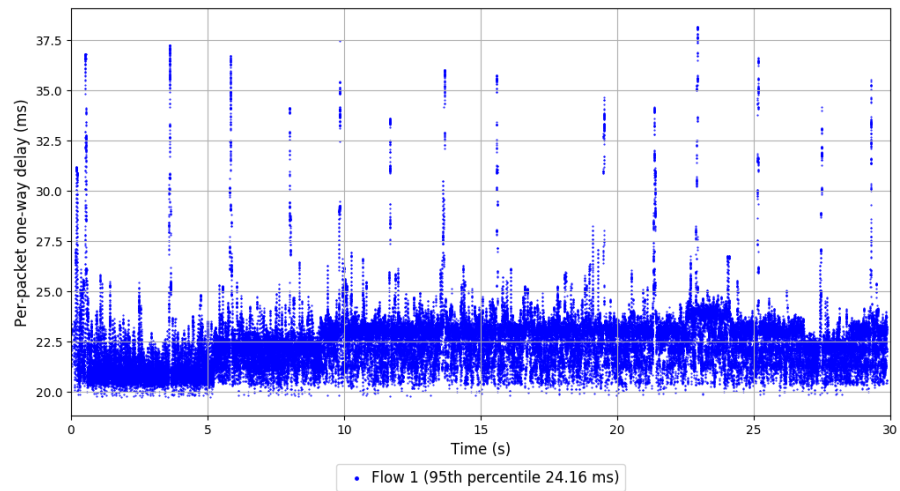
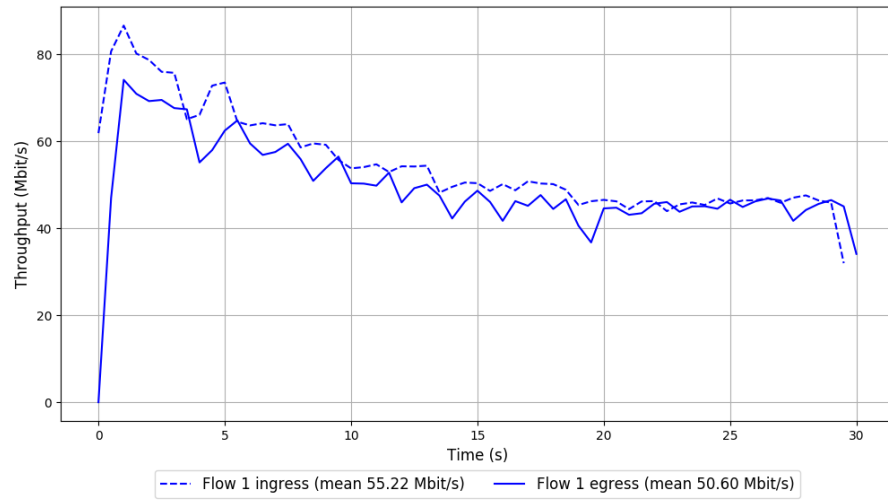
-- Flow 1:

Average throughput: 50.60 Mbit/s

95th percentile per-packet one-way delay: 24.157 ms

Loss rate: 8.35%

Run 5: Report of Indigo — Data Link

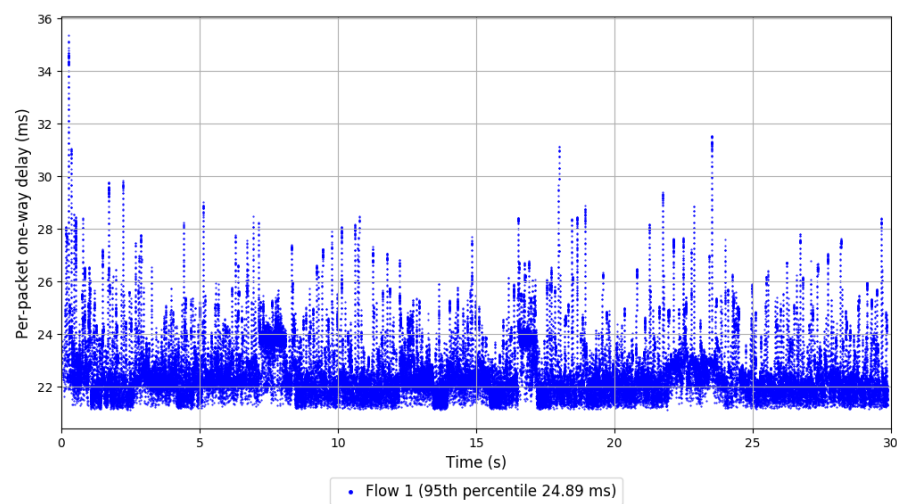
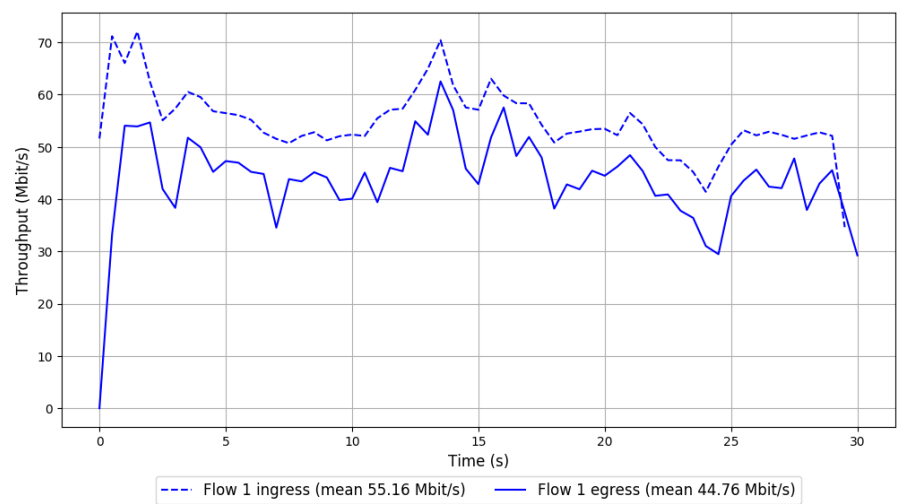


Run 6: Statistics of Indigo

Start at: 2018-05-30 09:59:36
End at: 2018-05-30 10:00:06
Local clock offset: -2.287 ms
Remote clock offset: -2.071 ms

Below is generated by plot.py at 2018-05-30 11:32:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 44.76 Mbit/s
95th percentile per-packet one-way delay: 24.885 ms
Loss rate: 18.86%
-- Flow 1:
Average throughput: 44.76 Mbit/s
95th percentile per-packet one-way delay: 24.885 ms
Loss rate: 18.86%

Run 6: Report of Indigo — Data Link

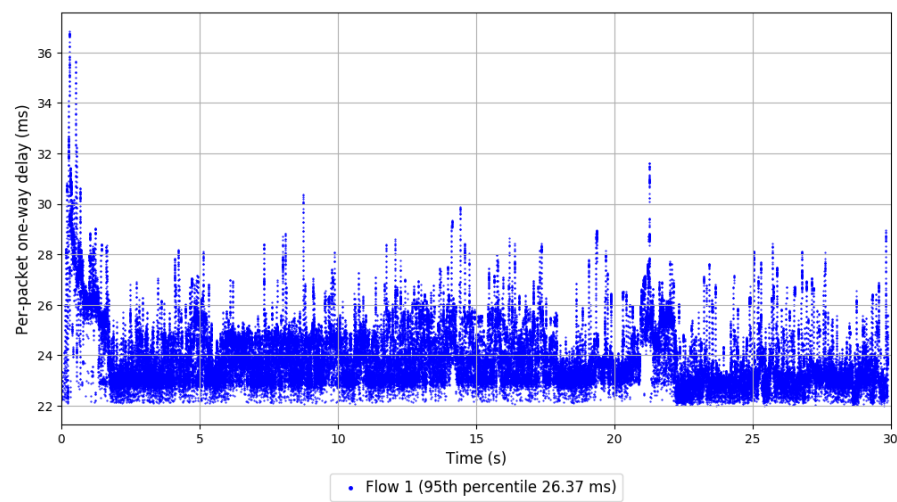
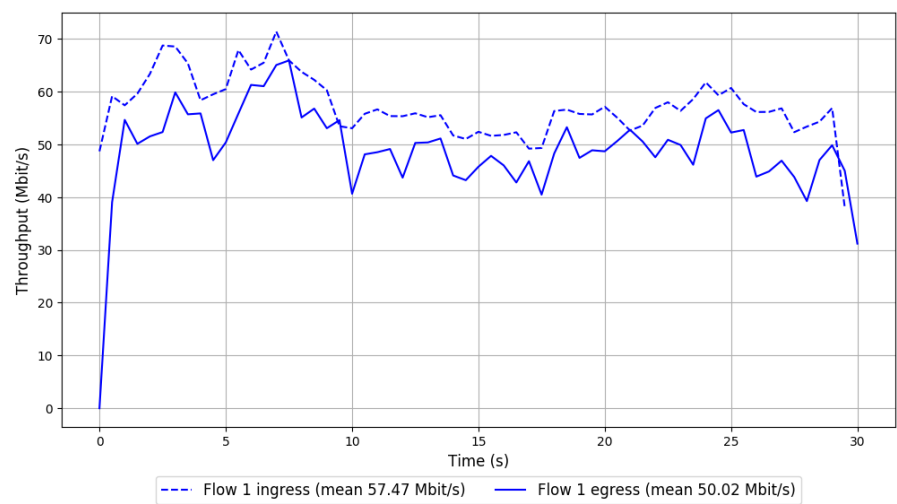


Run 7: Statistics of Indigo

Start at: 2018-05-30 10:17:33
End at: 2018-05-30 10:18:03
Local clock offset: -0.643 ms
Remote clock offset: -0.211 ms

Below is generated by plot.py at 2018-05-30 11:32:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.02 Mbit/s
95th percentile per-packet one-way delay: 26.373 ms
Loss rate: 12.96%
-- Flow 1:
Average throughput: 50.02 Mbit/s
95th percentile per-packet one-way delay: 26.373 ms
Loss rate: 12.96%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-05-30 10:35:20

End at: 2018-05-30 10:35:50

Local clock offset: 0.386 ms

Remote clock offset: 8.545 ms

Below is generated by plot.py at 2018-05-30 11:32:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.45 Mbit/s

95th percentile per-packet one-way delay: 26.957 ms

Loss rate: 11.59%

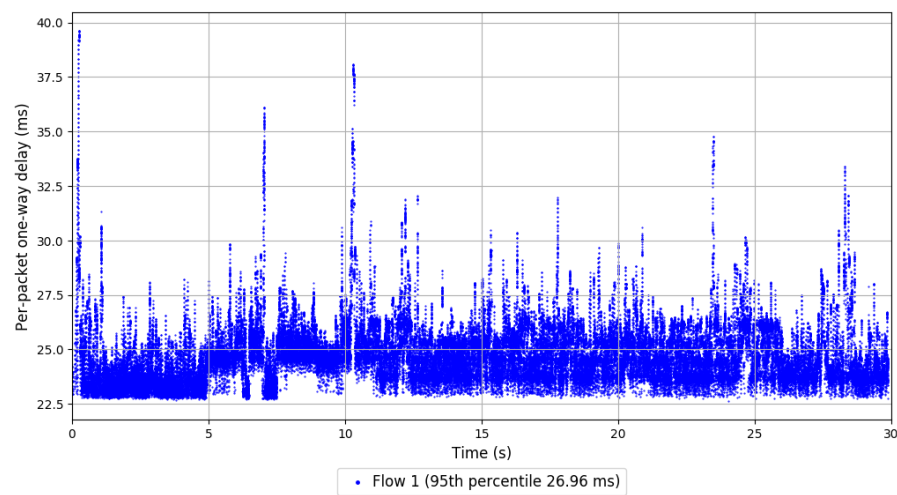
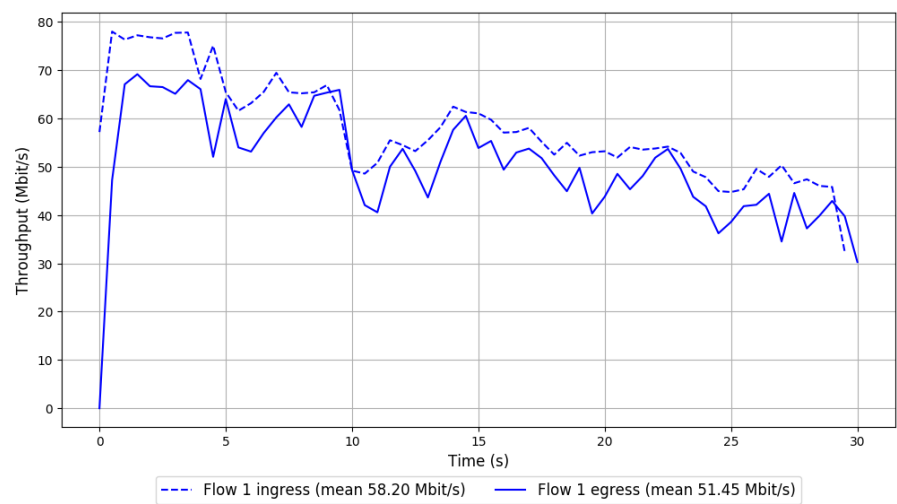
-- Flow 1:

Average throughput: 51.45 Mbit/s

95th percentile per-packet one-way delay: 26.957 ms

Loss rate: 11.59%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-05-30 10:53:14

End at: 2018-05-30 10:53:44

Local clock offset: -0.793 ms

Remote clock offset: 0.108 ms

Below is generated by plot.py at 2018-05-30 11:32:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.82 Mbit/s

95th percentile per-packet one-way delay: 17.952 ms

Loss rate: 10.77%

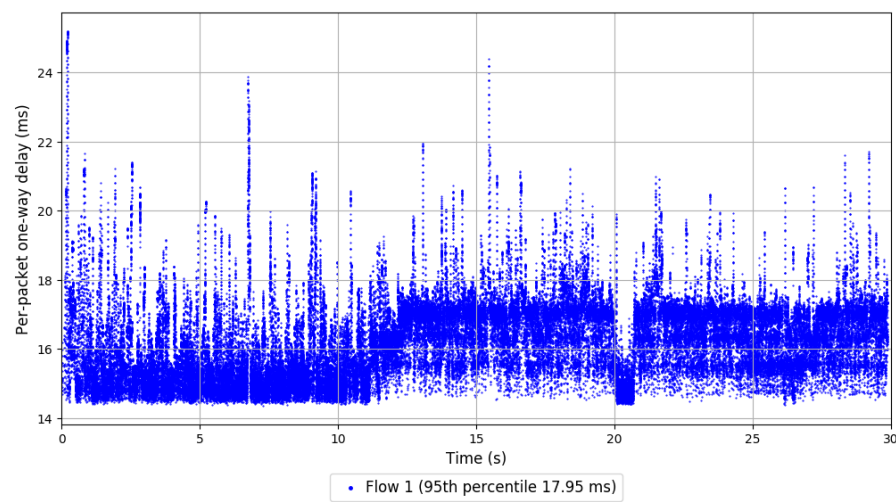
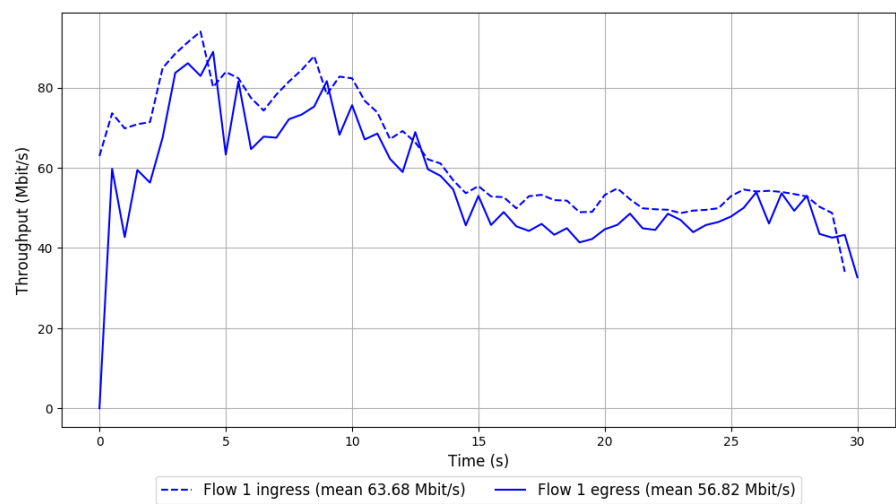
-- Flow 1:

Average throughput: 56.82 Mbit/s

95th percentile per-packet one-way delay: 17.952 ms

Loss rate: 10.77%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

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

End at: 2018-05-30 11:11:52

Local clock offset: 2.268 ms

Remote clock offset: 6.476 ms

Below is generated by plot.py at 2018-05-30 11:32:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.20 Mbit/s

95th percentile per-packet one-way delay: 22.973 ms

Loss rate: 10.80%

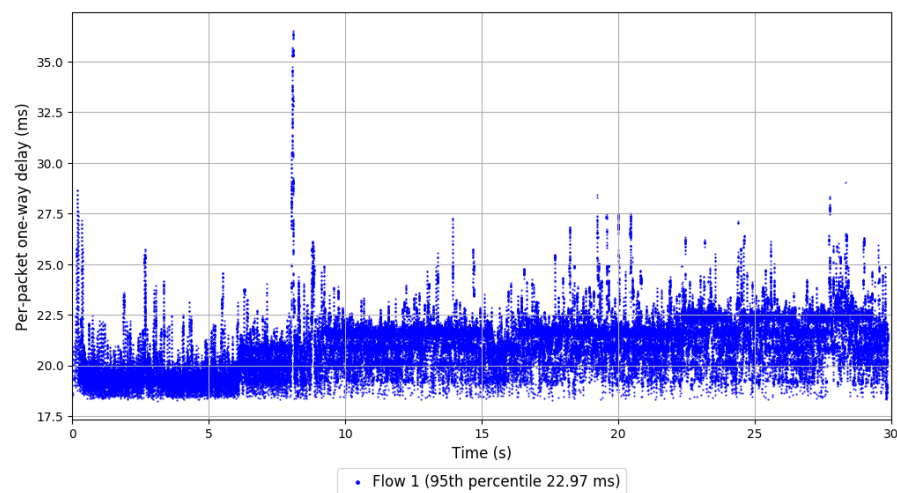
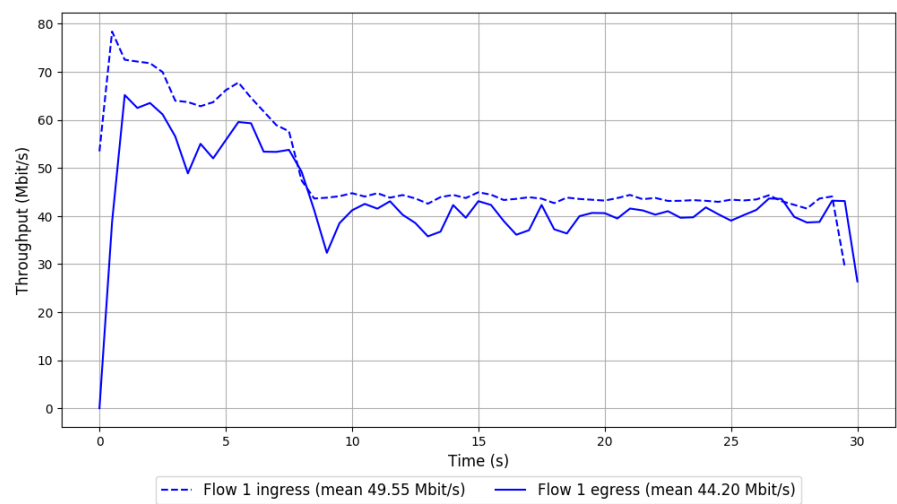
-- Flow 1:

Average throughput: 44.20 Mbit/s

95th percentile per-packet one-way delay: 22.973 ms

Loss rate: 10.80%

Run 10: Report of Indigo — Data Link

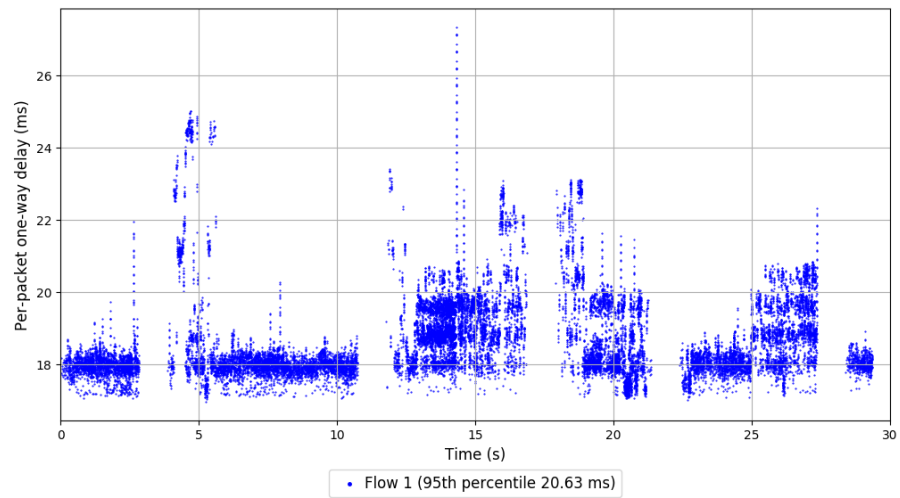
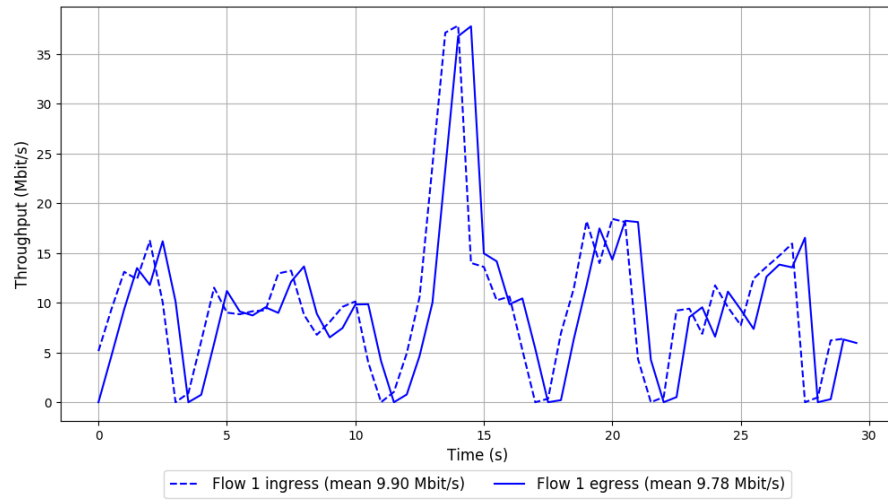


Run 1: Statistics of LEDBAT

Start at: 2018-05-30 08:33:54
End at: 2018-05-30 08:34:24
Local clock offset: -0.074 ms
Remote clock offset: -7.896 ms

Below is generated by plot.py at 2018-05-30 11:32:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.78 Mbit/s
95th percentile per-packet one-way delay: 20.632 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 9.78 Mbit/s
95th percentile per-packet one-way delay: 20.632 ms
Loss rate: 1.20%

Run 1: Report of LEDBAT — Data Link

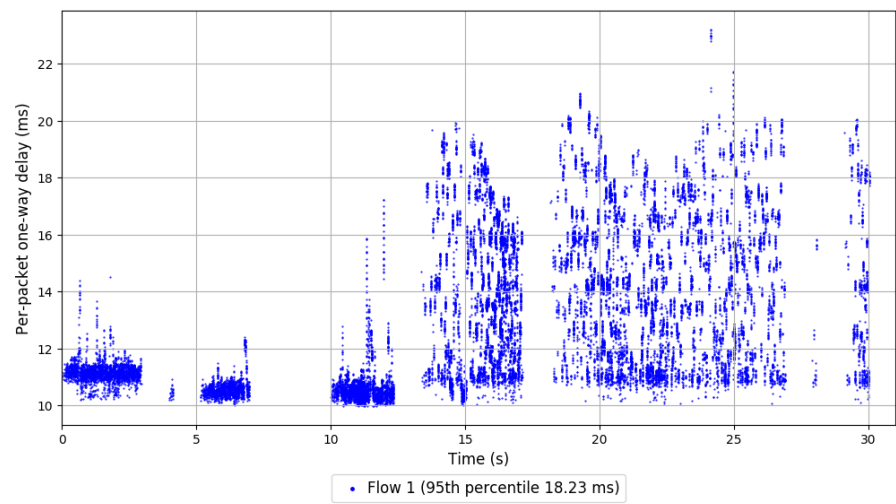
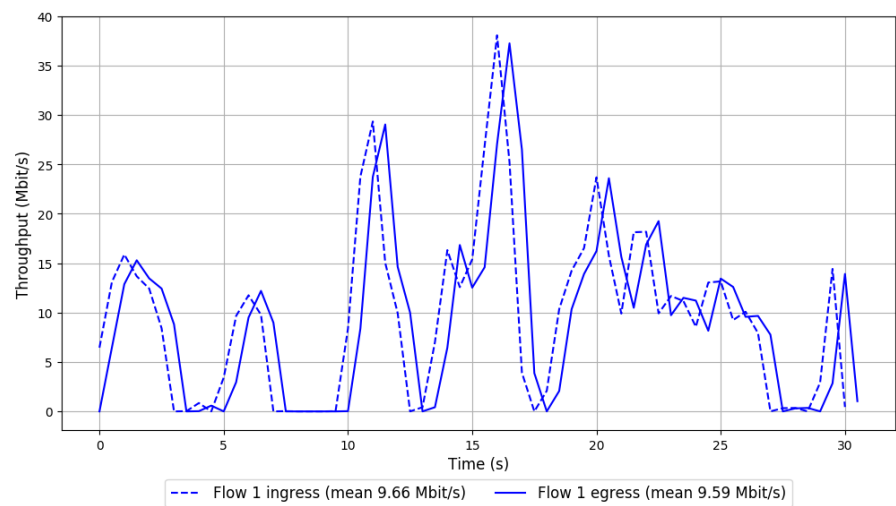


Run 2: Statistics of LEDBAT

Start at: 2018-05-30 08:51:58
End at: 2018-05-30 08:52:28
Local clock offset: 1.637 ms
Remote clock offset: -6.132 ms

Below is generated by plot.py at 2018-05-30 11:32:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.59 Mbit/s
95th percentile per-packet one-way delay: 18.235 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 9.59 Mbit/s
95th percentile per-packet one-way delay: 18.235 ms
Loss rate: 0.78%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-05-30 09:09:59

End at: 2018-05-30 09:10:29

Local clock offset: 0.23 ms

Remote clock offset: 2.624 ms

Below is generated by plot.py at 2018-05-30 11:32:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.01 Mbit/s

95th percentile per-packet one-way delay: 23.577 ms

Loss rate: 0.41%

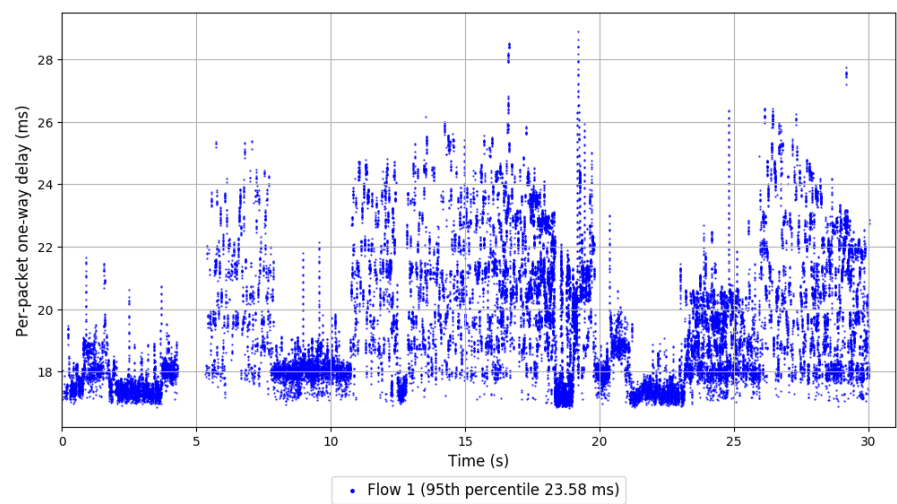
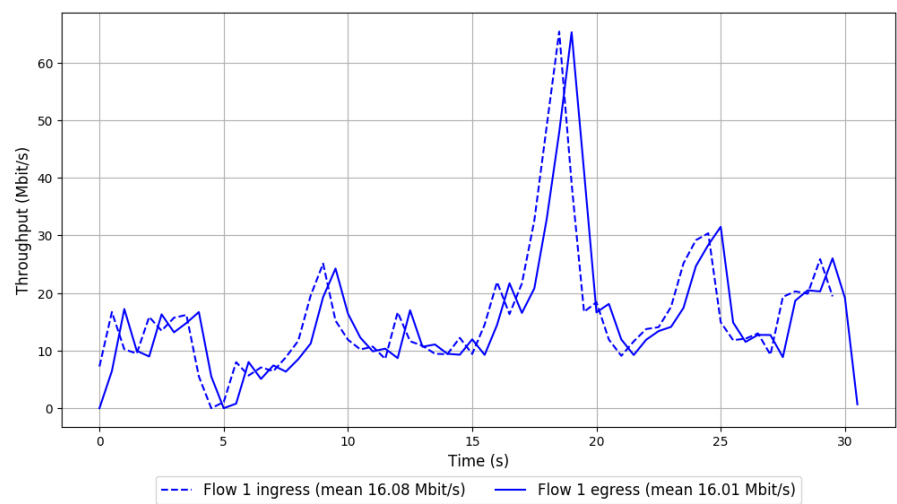
-- Flow 1:

Average throughput: 16.01 Mbit/s

95th percentile per-packet one-way delay: 23.577 ms

Loss rate: 0.41%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-05-30 09:27:58

End at: 2018-05-30 09:28:28

Local clock offset: -2.834 ms

Remote clock offset: 5.536 ms

Below is generated by plot.py at 2018-05-30 11:32:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.95 Mbit/s

95th percentile per-packet one-way delay: 31.896 ms

Loss rate: 0.47%

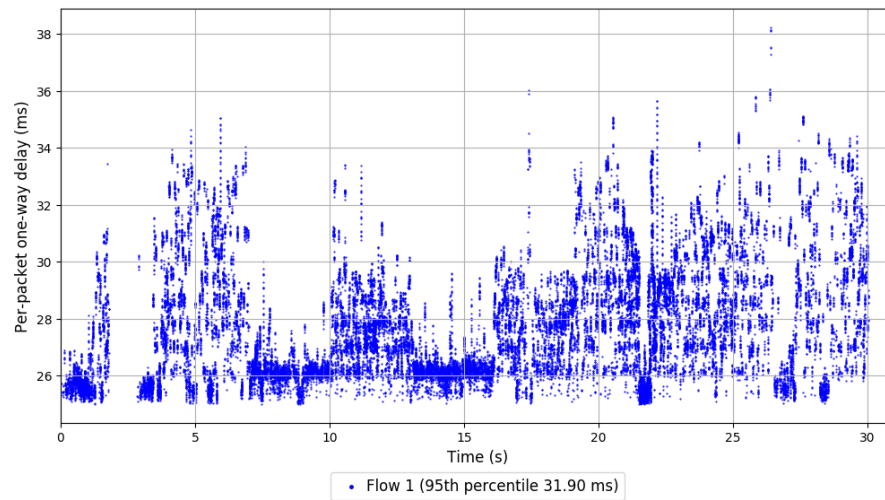
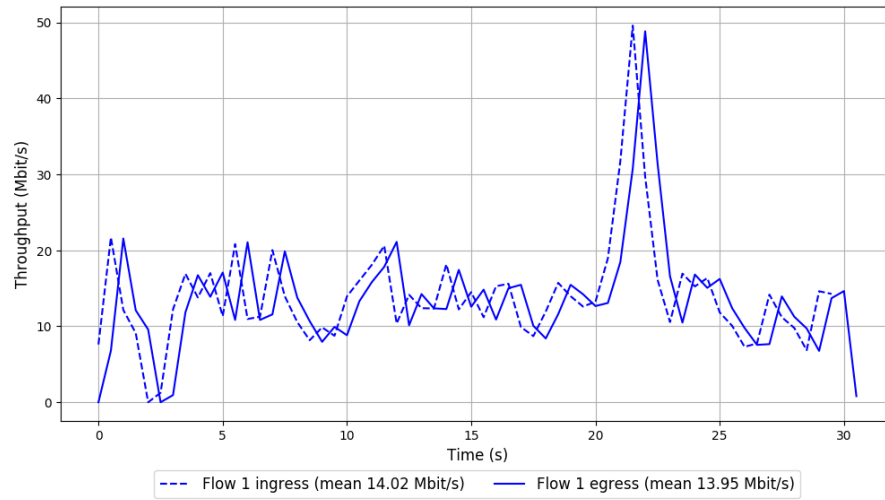
-- Flow 1:

Average throughput: 13.95 Mbit/s

95th percentile per-packet one-way delay: 31.896 ms

Loss rate: 0.47%

Run 4: Report of LEDBAT — Data Link

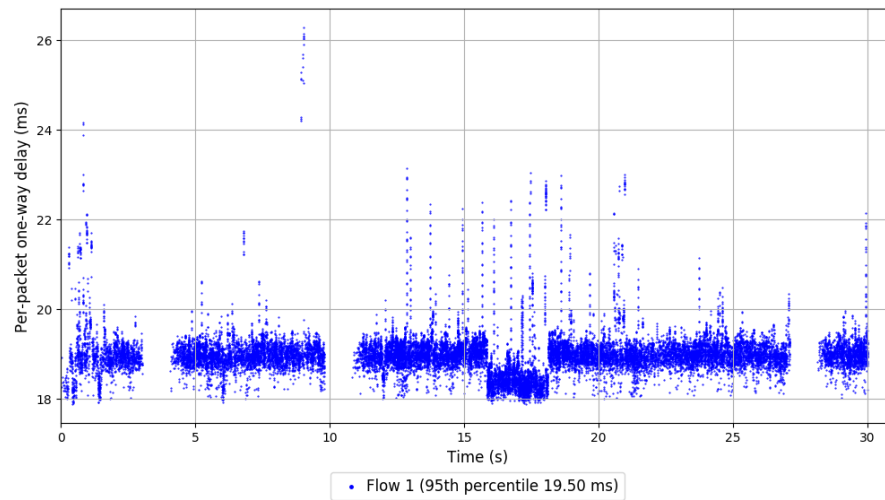
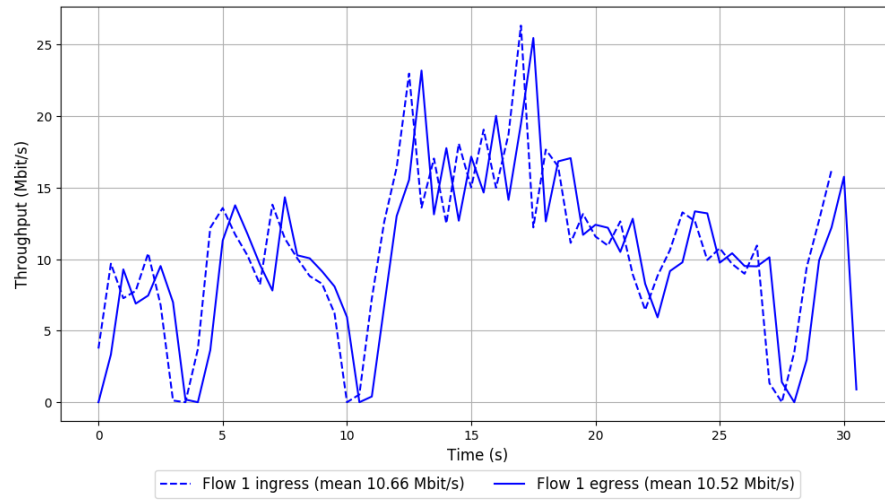


Run 5: Statistics of LEDBAT

Start at: 2018-05-30 09:46:09
End at: 2018-05-30 09:46:39
Local clock offset: -3.245 ms
Remote clock offset: -5.216 ms

Below is generated by plot.py at 2018-05-30 11:32:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 10.52 Mbit/s
95th percentile per-packet one-way delay: 19.497 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 10.52 Mbit/s
95th percentile per-packet one-way delay: 19.497 ms
Loss rate: 1.30%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-05-30 10:04:08

End at: 2018-05-30 10:04:38

Local clock offset: -2.609 ms

Remote clock offset: 4.998 ms

Below is generated by plot.py at 2018-05-30 11:32:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.29 Mbit/s

95th percentile per-packet one-way delay: 31.285 ms

Loss rate: 1.57%

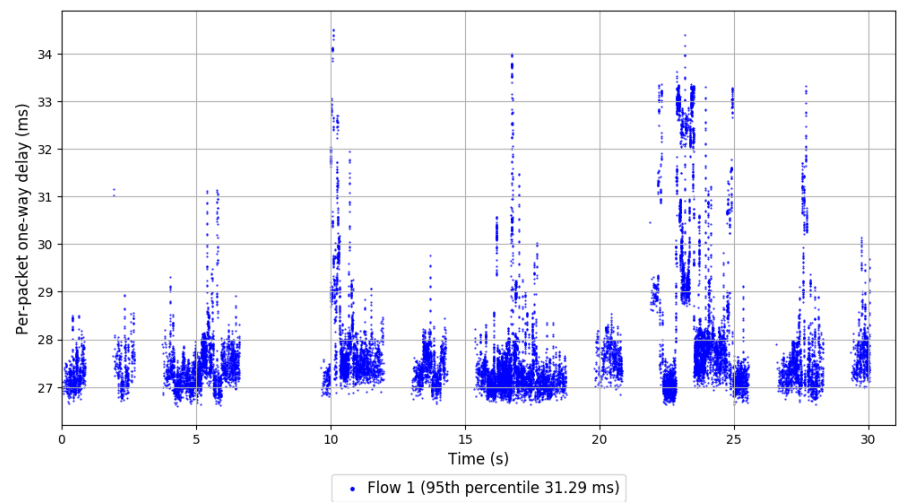
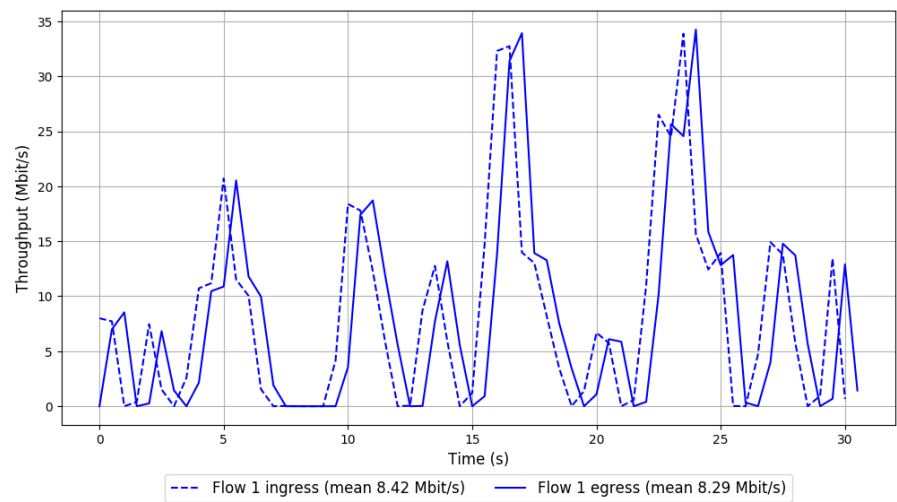
-- Flow 1:

Average throughput: 8.29 Mbit/s

95th percentile per-packet one-way delay: 31.285 ms

Loss rate: 1.57%

Run 6: Report of LEDBAT — Data Link

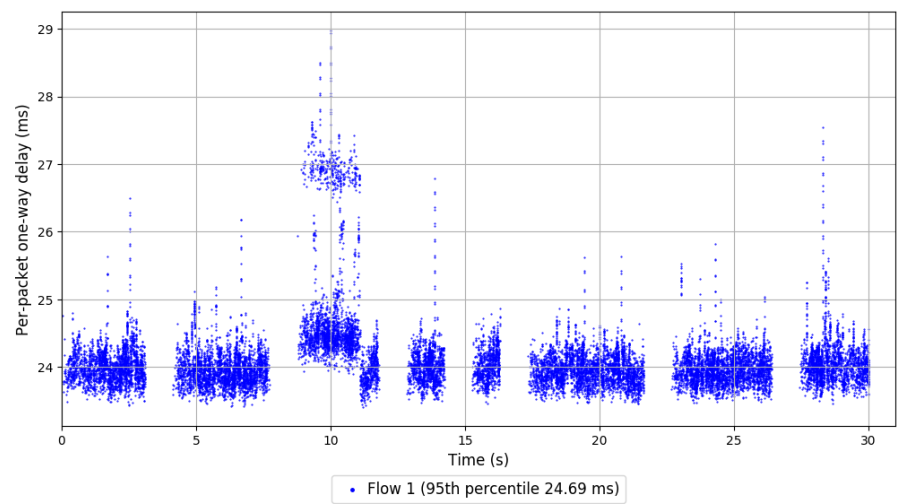
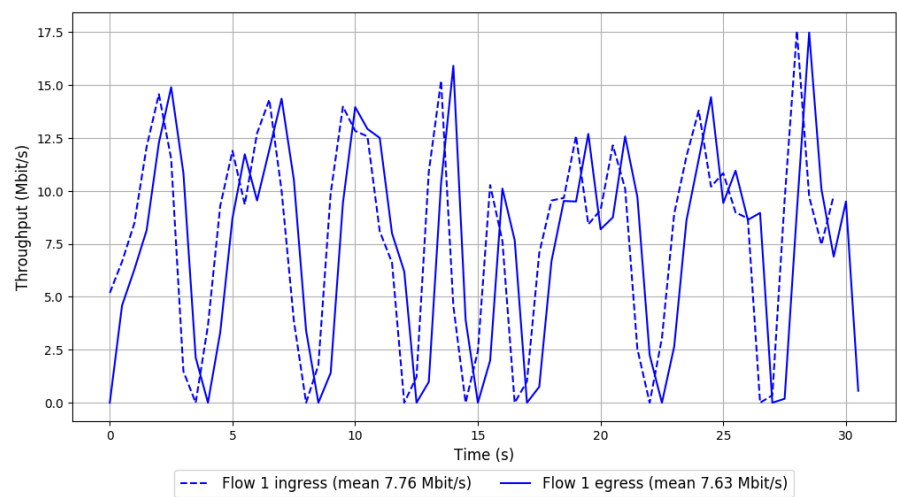


Run 7: Statistics of LEDBAT

Start at: 2018-05-30 10:21:59
End at: 2018-05-30 10:22:29
Local clock offset: -2.957 ms
Remote clock offset: -1.279 ms

Below is generated by plot.py at 2018-05-30 11:32:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.63 Mbit/s
95th percentile per-packet one-way delay: 24.687 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 7.63 Mbit/s
95th percentile per-packet one-way delay: 24.687 ms
Loss rate: 1.76%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-05-30 10:39:47

End at: 2018-05-30 10:40:17

Local clock offset: 0.856 ms

Remote clock offset: 9.571 ms

Below is generated by plot.py at 2018-05-30 11:32:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.53 Mbit/s

95th percentile per-packet one-way delay: 29.141 ms

Loss rate: 1.30%

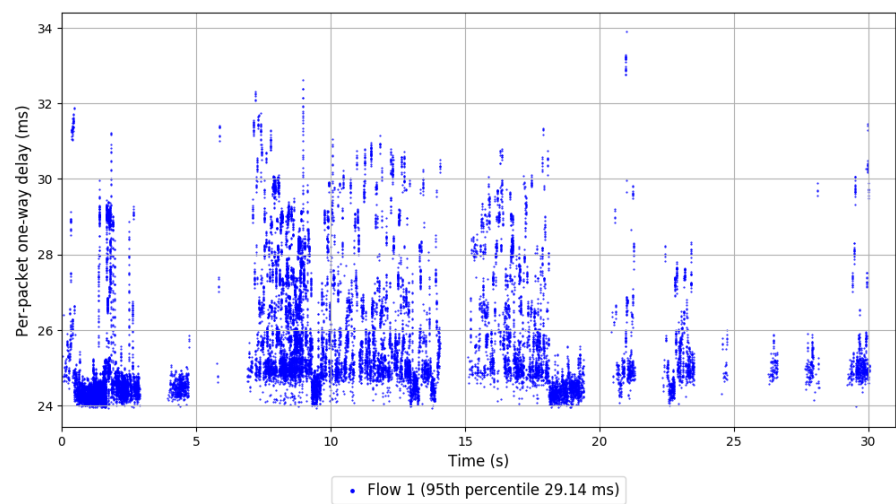
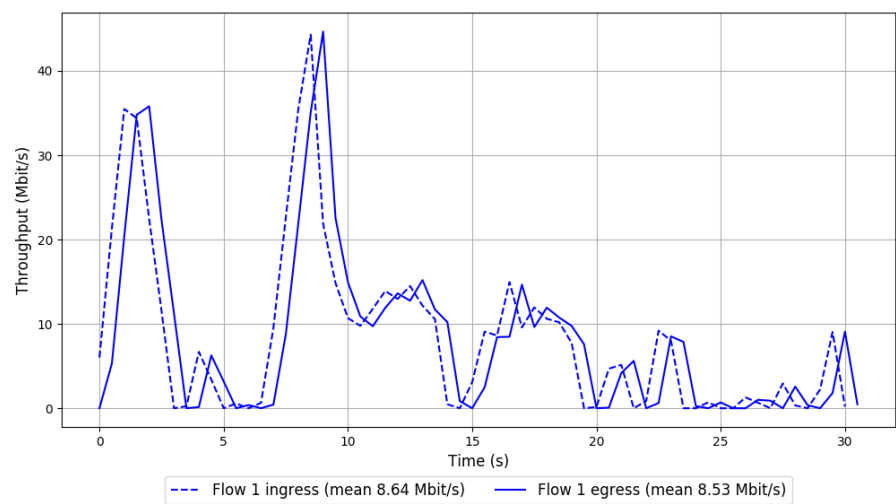
-- Flow 1:

Average throughput: 8.53 Mbit/s

95th percentile per-packet one-way delay: 29.141 ms

Loss rate: 1.30%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-05-30 10:57:45

End at: 2018-05-30 10:58:15

Local clock offset: 0.645 ms

Remote clock offset: 3.098 ms

Below is generated by plot.py at 2018-05-30 11:32:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.59 Mbit/s

95th percentile per-packet one-way delay: 21.549 ms

Loss rate: 0.67%

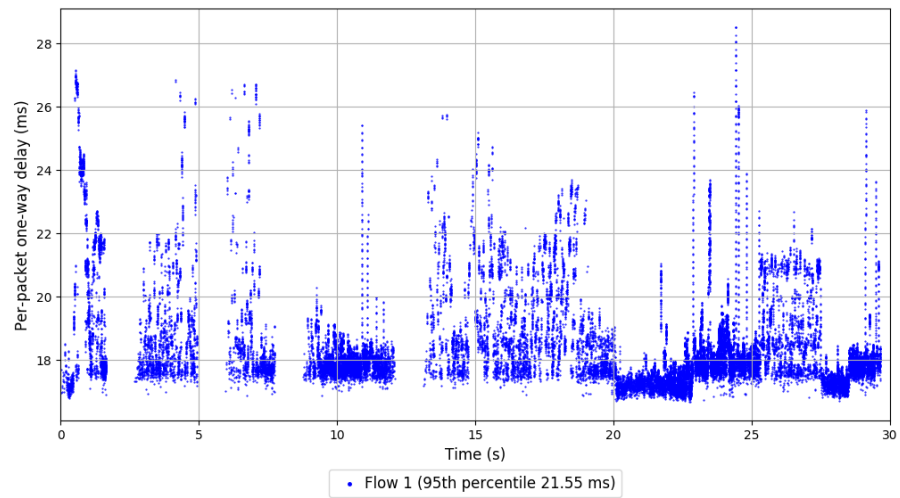
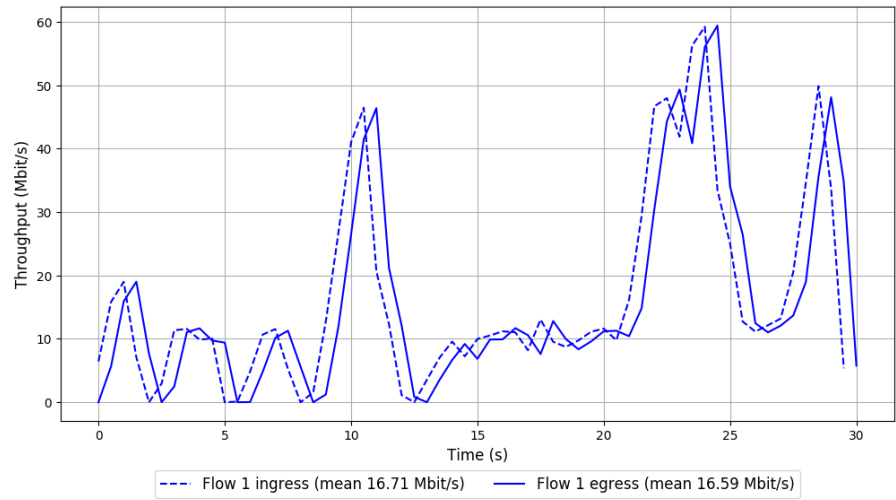
-- Flow 1:

Average throughput: 16.59 Mbit/s

95th percentile per-packet one-way delay: 21.549 ms

Loss rate: 0.67%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-05-30 11:15:50

End at: 2018-05-30 11:16:20

Local clock offset: 2.577 ms

Remote clock offset: 7.467 ms

Below is generated by plot.py at 2018-05-30 11:32:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.11 Mbit/s

95th percentile per-packet one-way delay: 24.226 ms

Loss rate: 3.16%

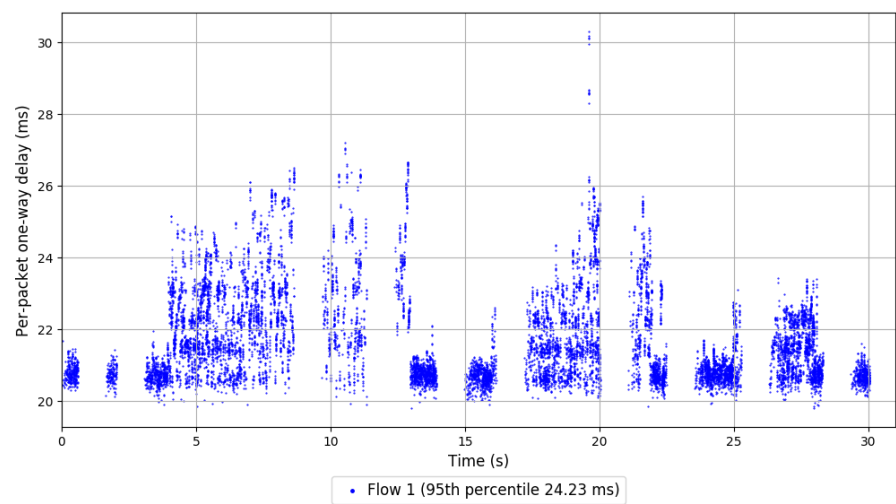
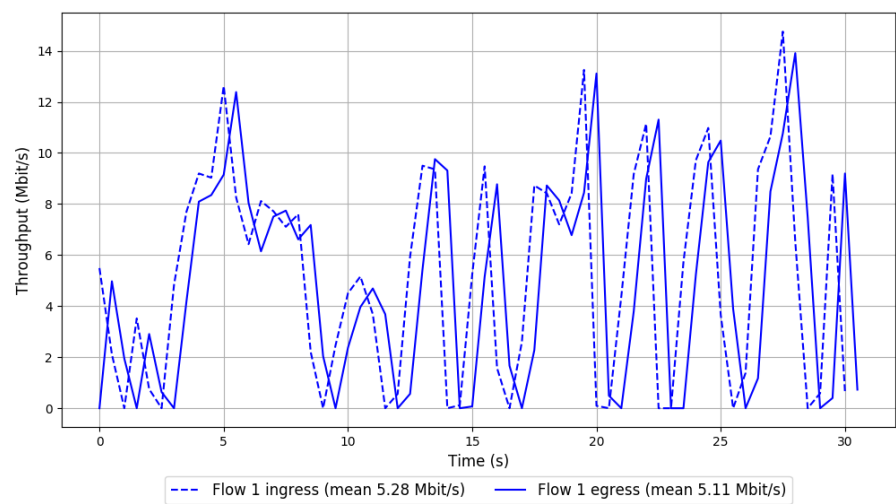
-- Flow 1:

Average throughput: 5.11 Mbit/s

95th percentile per-packet one-way delay: 24.226 ms

Loss rate: 3.16%

Run 10: Report of LEDBAT — Data Link

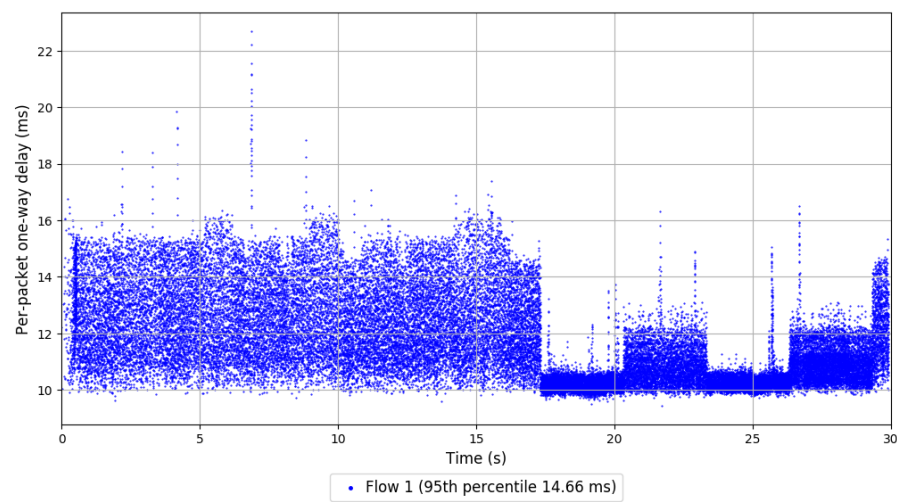
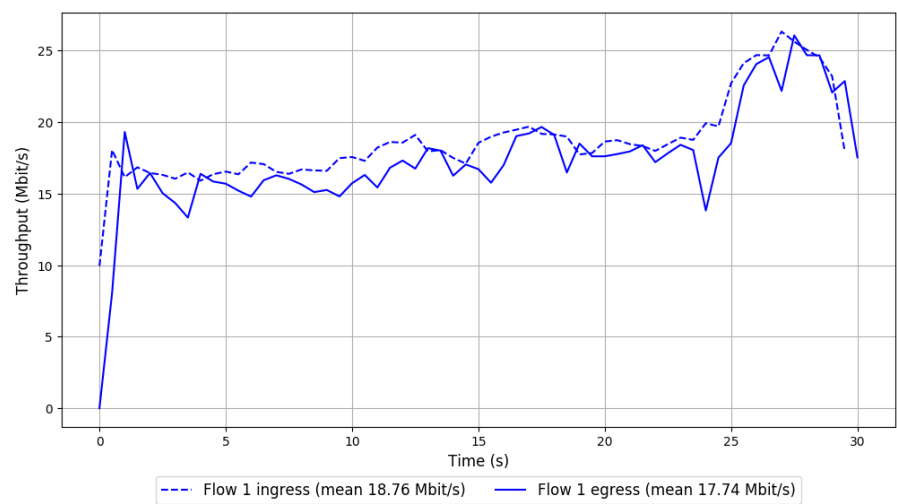


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-05-30 08:34:59
End at: 2018-05-30 08:35:29
Local clock offset: -1.174 ms
Remote clock offset: -15.779 ms

# Below is generated by plot.py at 2018-05-30 11:32:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 17.74 Mbit/s
95th percentile per-packet one-way delay: 14.656 ms
Loss rate: 5.49%
-- Flow 1:
Average throughput: 17.74 Mbit/s
95th percentile per-packet one-way delay: 14.656 ms
Loss rate: 5.49%
```


Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-30 08:53:03

End at: 2018-05-30 08:53:33

Local clock offset: -0.368 ms

Remote clock offset: 2.555 ms

Below is generated by plot.py at 2018-05-30 11:33:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.55 Mbit/s

95th percentile per-packet one-way delay: 23.911 ms

Loss rate: 8.70%

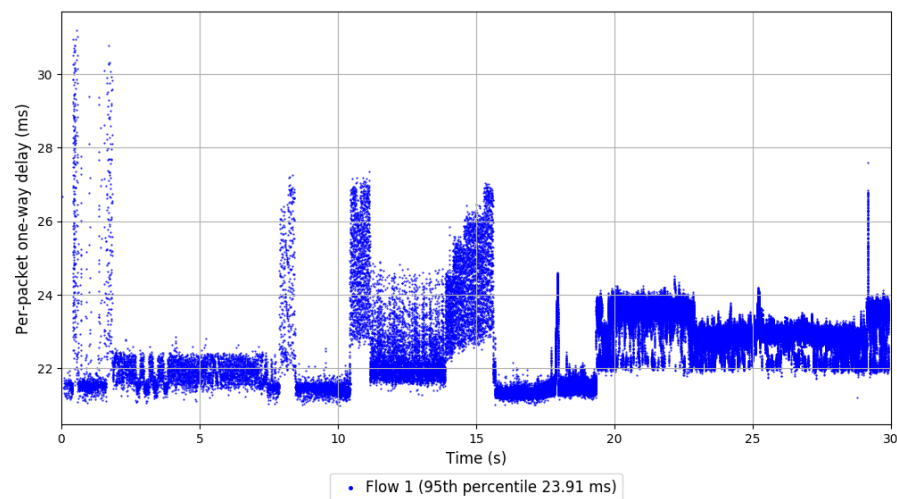
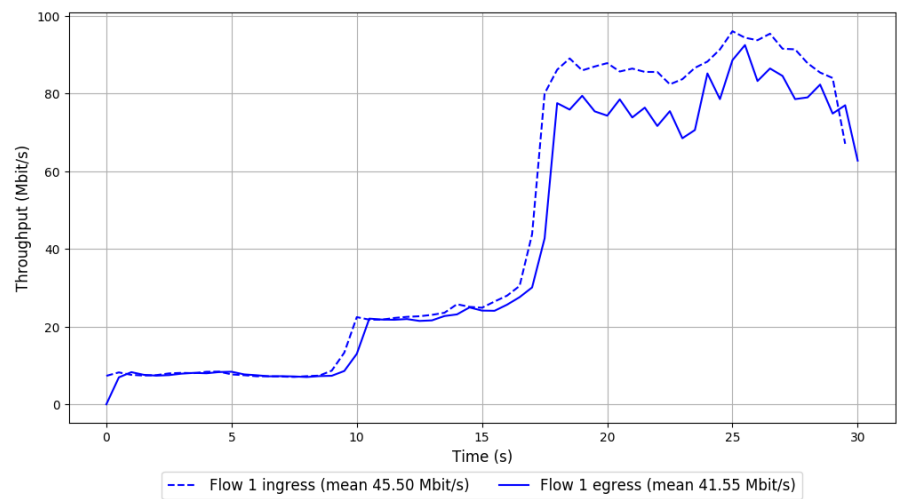
-- Flow 1:

Average throughput: 41.55 Mbit/s

95th percentile per-packet one-way delay: 23.911 ms

Loss rate: 8.70%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-30 09:11:04

End at: 2018-05-30 09:11:34

Local clock offset: 1.383 ms

Remote clock offset: -0.307 ms

Below is generated by plot.py at 2018-05-30 11:33:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.62 Mbit/s

95th percentile per-packet one-way delay: 16.305 ms

Loss rate: 9.59%

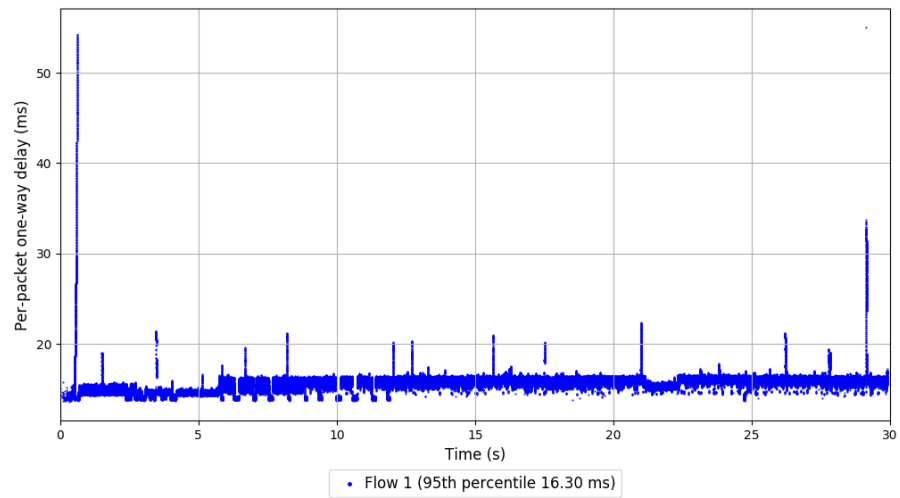
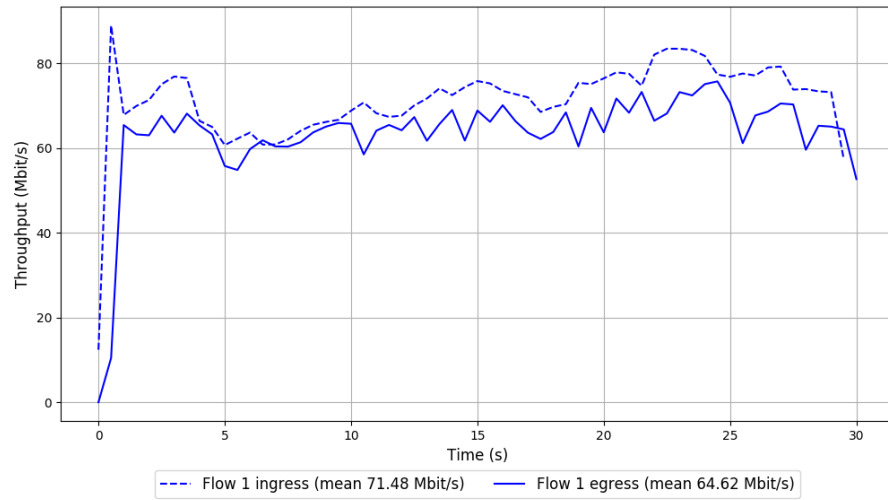
-- Flow 1:

Average throughput: 64.62 Mbit/s

95th percentile per-packet one-way delay: 16.305 ms

Loss rate: 9.59%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-30 09:29:03

End at: 2018-05-30 09:29:33

Local clock offset: -1.736 ms

Remote clock offset: -2.504 ms

Below is generated by plot.py at 2018-05-30 11:33:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.55 Mbit/s

95th percentile per-packet one-way delay: 19.827 ms

Loss rate: 3.53%

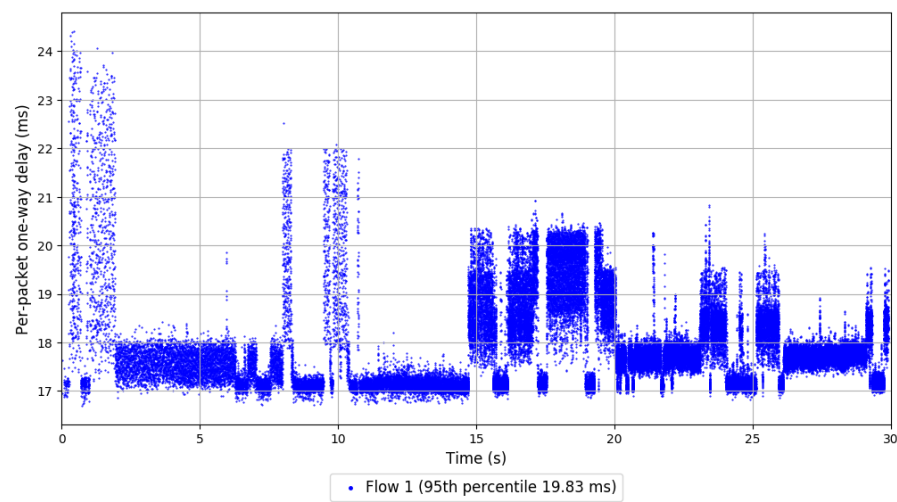
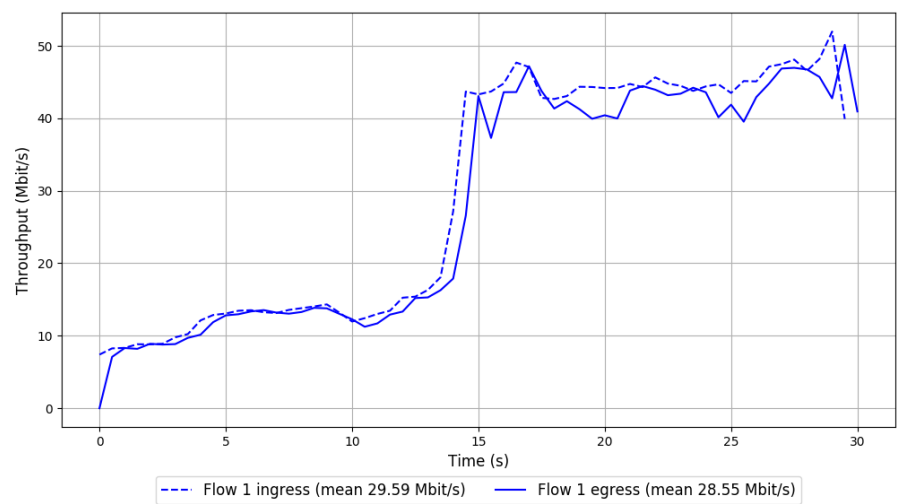
-- Flow 1:

Average throughput: 28.55 Mbit/s

95th percentile per-packet one-way delay: 19.827 ms

Loss rate: 3.53%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-05-30 09:47:13

End at: 2018-05-30 09:47:43

Local clock offset: -0.341 ms

Remote clock offset: -4.949 ms

Below is generated by plot.py at 2018-05-30 11:33:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.75 Mbit/s

95th percentile per-packet one-way delay: 19.282 ms

Loss rate: 11.11%

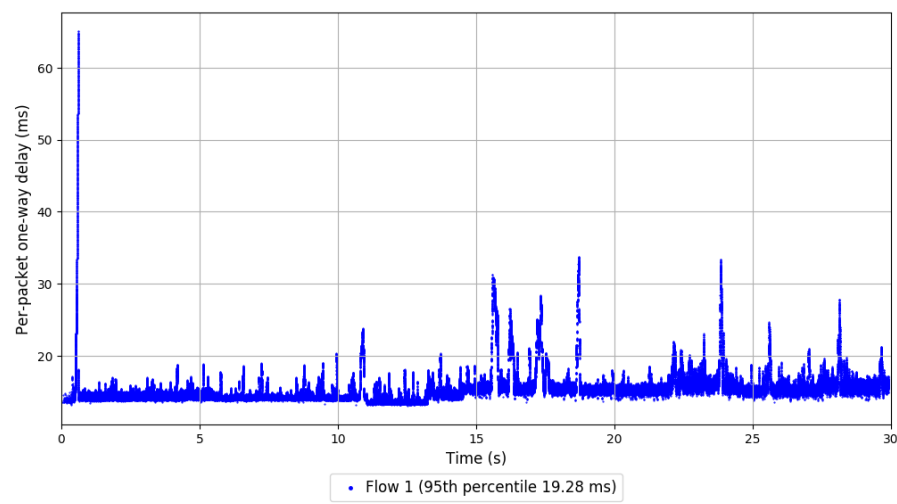
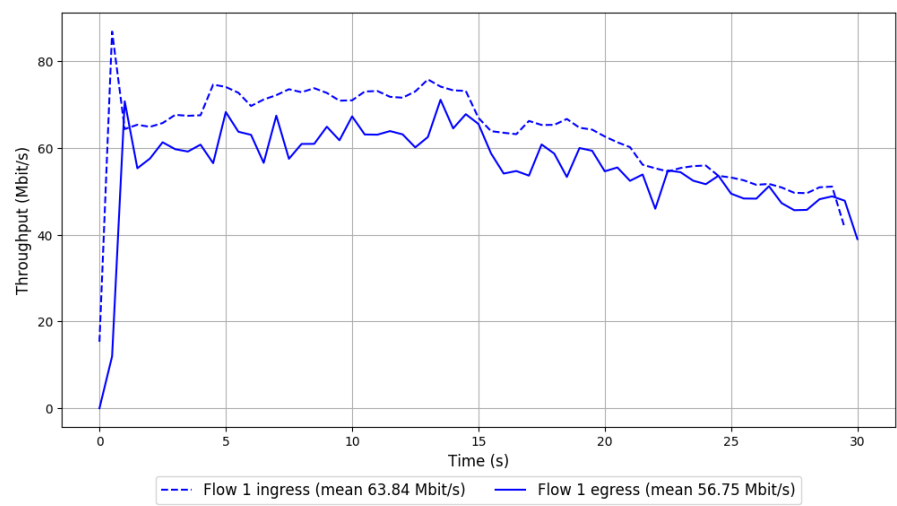
-- Flow 1:

Average throughput: 56.75 Mbit/s

95th percentile per-packet one-way delay: 19.282 ms

Loss rate: 11.11%

Run 5: Report of PCC-Allegro — Data Link

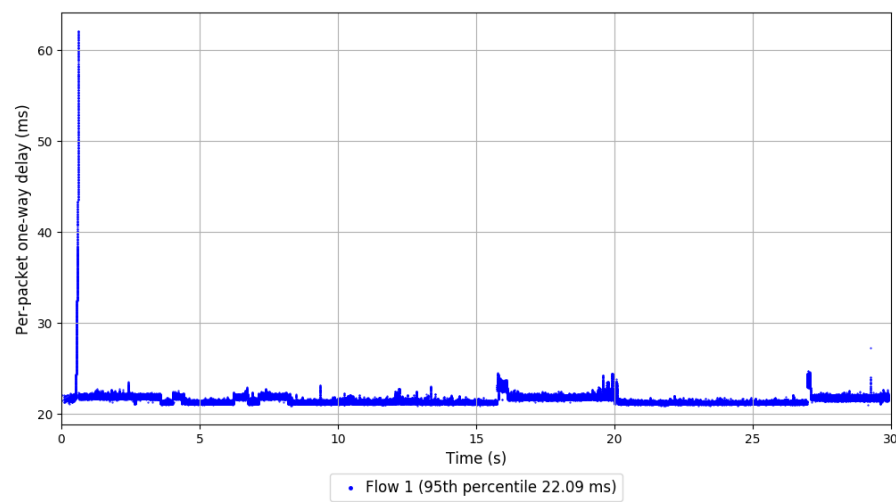
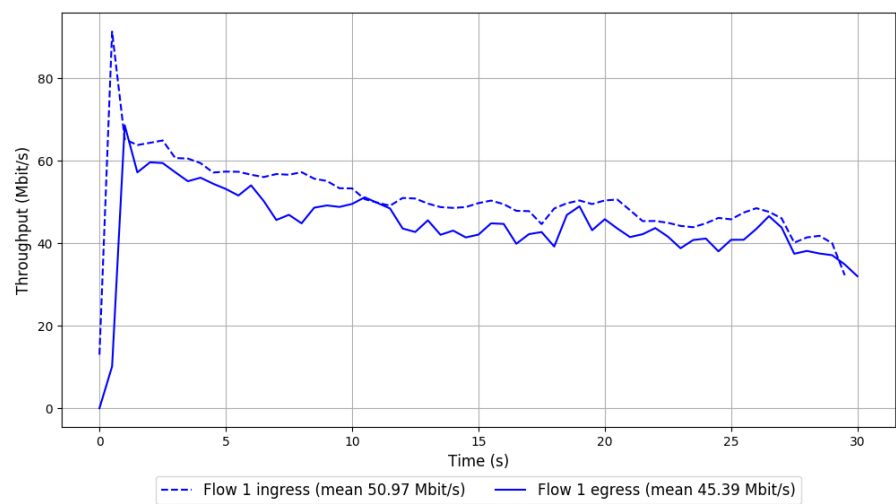


Run 6: Statistics of PCC-Allegro

Start at: 2018-05-30 10:05:13
End at: 2018-05-30 10:05:43
Local clock offset: -1.638 ms
Remote clock offset: -1.918 ms

Below is generated by plot.py at 2018-05-30 11:33:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 45.39 Mbit/s
95th percentile per-packet one-way delay: 22.087 ms
Loss rate: 10.95%
-- Flow 1:
Average throughput: 45.39 Mbit/s
95th percentile per-packet one-way delay: 22.087 ms
Loss rate: 10.95%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-30 10:23:04

End at: 2018-05-30 10:23:34

Local clock offset: -1.207 ms

Remote clock offset: 6.625 ms

Below is generated by plot.py at 2018-05-30 11:33:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.13 Mbit/s

95th percentile per-packet one-way delay: 32.126 ms

Loss rate: 3.06%

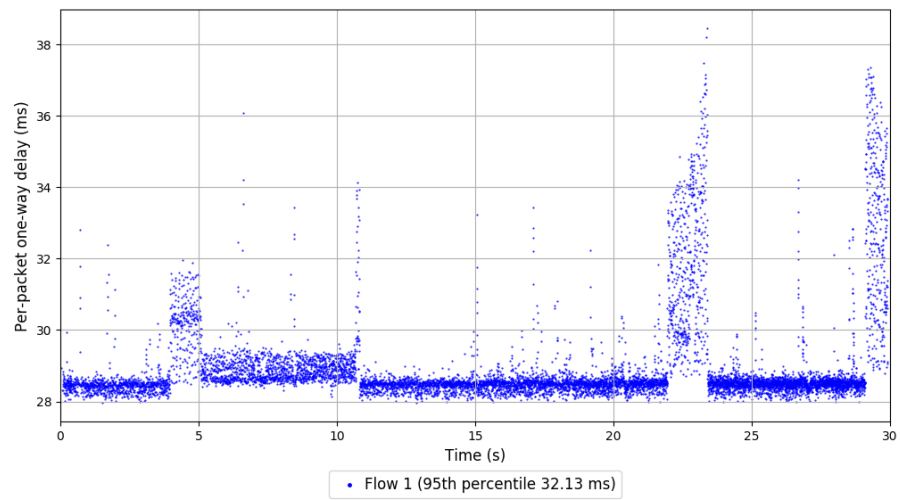
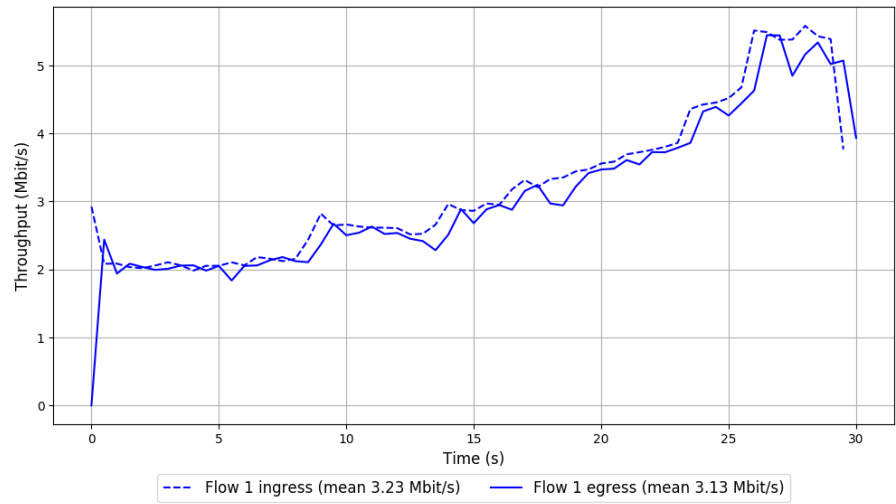
-- Flow 1:

Average throughput: 3.13 Mbit/s

95th percentile per-packet one-way delay: 32.126 ms

Loss rate: 3.06%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-30 10:40:52

End at: 2018-05-30 10:41:22

Local clock offset: 0.573 ms

Remote clock offset: 4.697 ms

Below is generated by plot.py at 2018-05-30 11:33:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.86 Mbit/s

95th percentile per-packet one-way delay: 21.332 ms

Loss rate: 2.51%

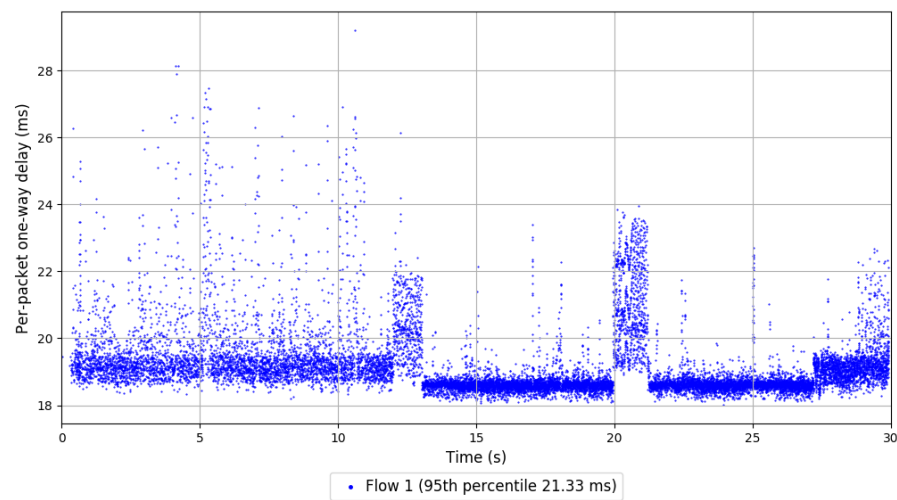
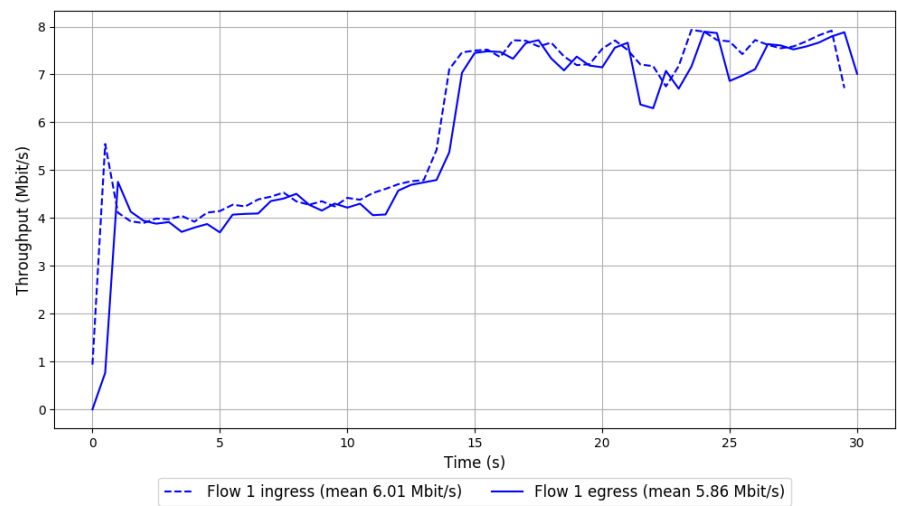
-- Flow 1:

Average throughput: 5.86 Mbit/s

95th percentile per-packet one-way delay: 21.332 ms

Loss rate: 2.51%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-30 10:58:50

End at: 2018-05-30 10:59:20

Local clock offset: 2.257 ms

Remote clock offset: 6.66 ms

Below is generated by plot.py at 2018-05-30 11:33:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.61 Mbit/s

95th percentile per-packet one-way delay: 21.127 ms

Loss rate: 8.07%

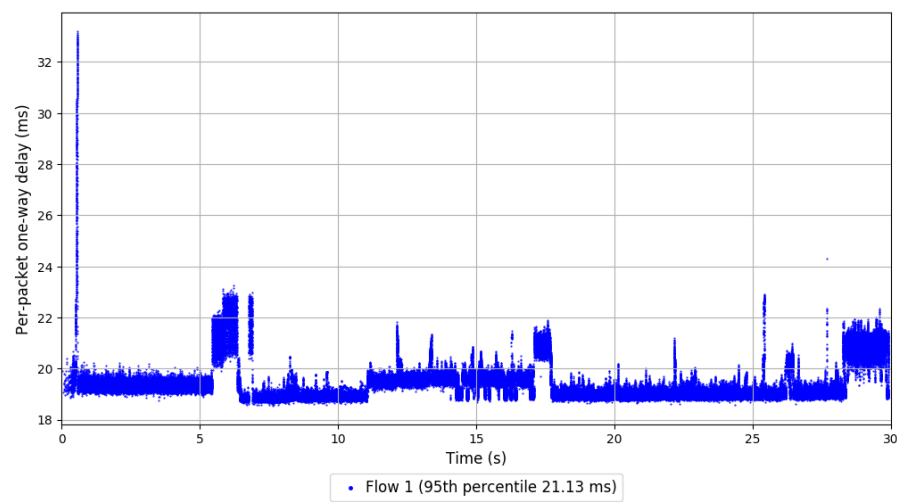
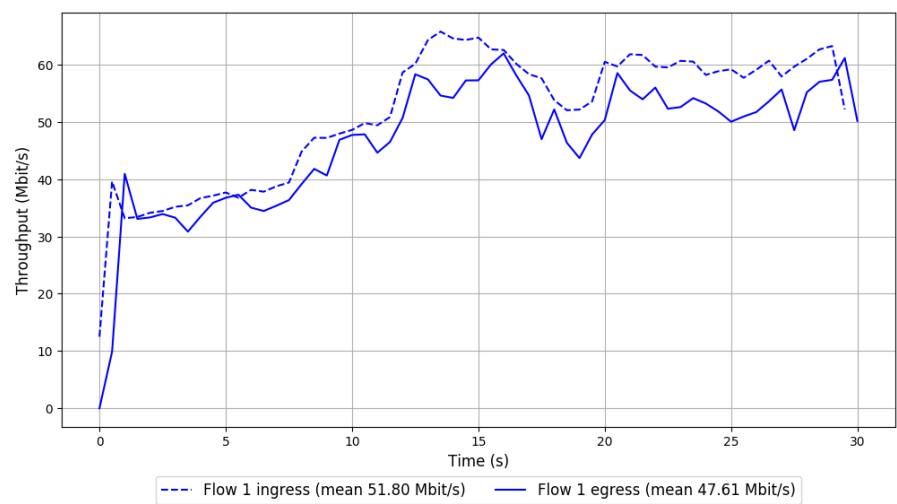
-- Flow 1:

Average throughput: 47.61 Mbit/s

95th percentile per-packet one-way delay: 21.127 ms

Loss rate: 8.07%

Run 9: Report of PCC-Allegro — Data Link

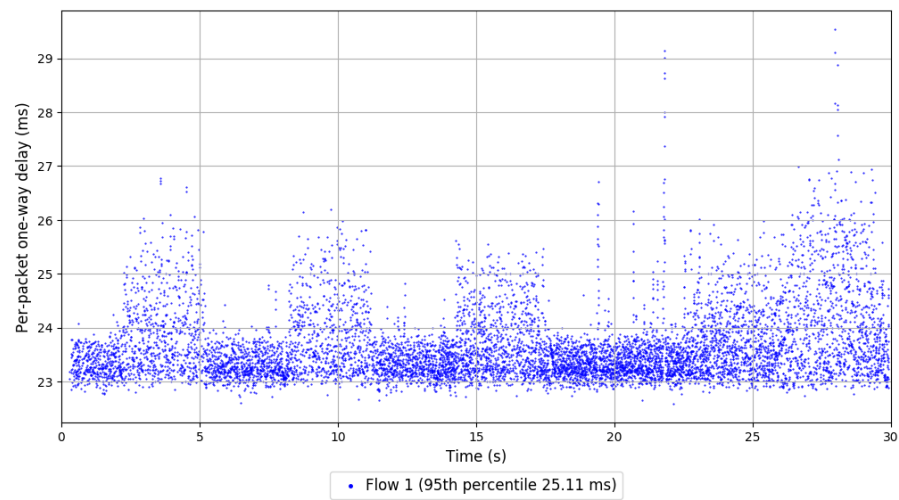
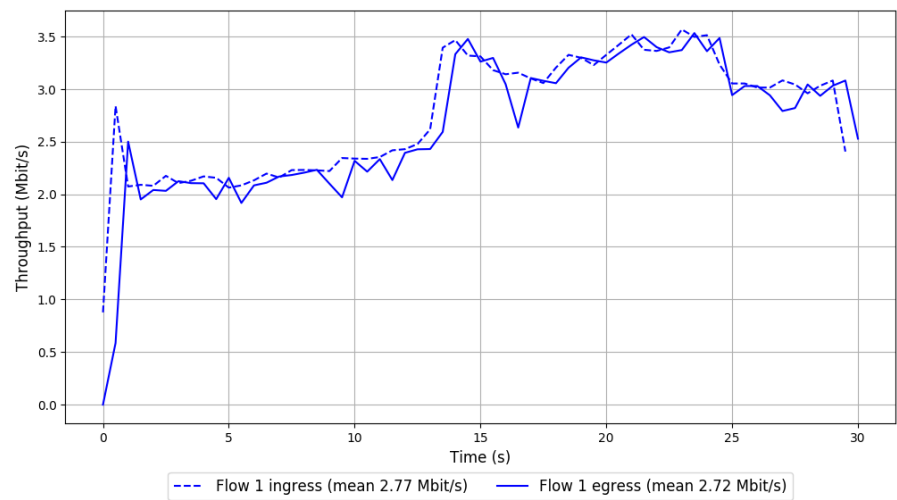


Run 10: Statistics of PCC-Allegro

Start at: 2018-05-30 11:16:55
End at: 2018-05-30 11:17:25
Local clock offset: 2.685 ms
Remote clock offset: 10.491 ms

Below is generated by plot.py at 2018-05-30 11:33:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.72 Mbit/s
95th percentile per-packet one-way delay: 25.110 ms
Loss rate: 2.46%
-- Flow 1:
Average throughput: 2.72 Mbit/s
95th percentile per-packet one-way delay: 25.110 ms
Loss rate: 2.46%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-05-30 08:31:34

End at: 2018-05-30 08:32:04

Local clock offset: -0.044 ms

Remote clock offset: -8.984 ms

Below is generated by plot.py at 2018-05-30 11:33:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.08 Mbit/s

95th percentile per-packet one-way delay: 19.011 ms

Loss rate: 6.77%

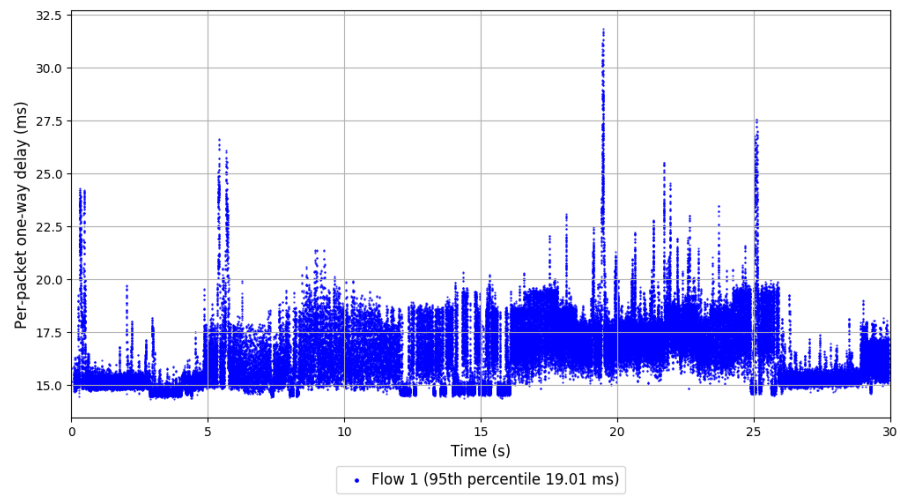
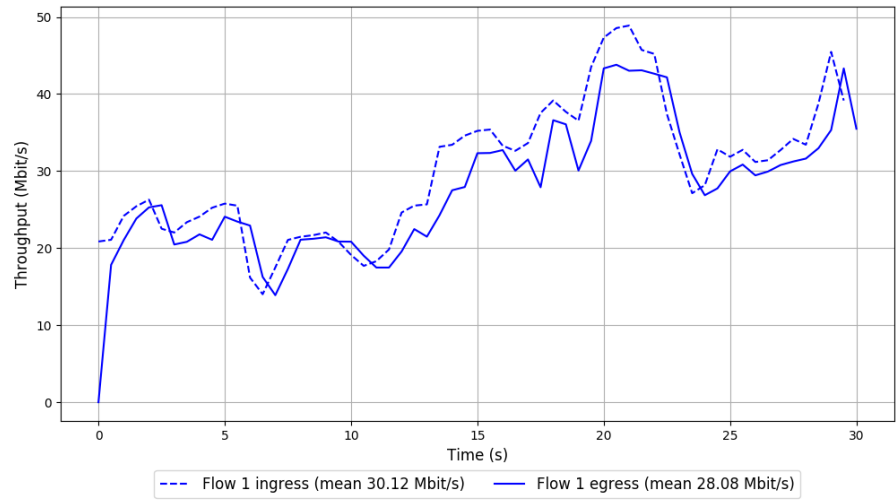
-- Flow 1:

Average throughput: 28.08 Mbit/s

95th percentile per-packet one-way delay: 19.011 ms

Loss rate: 6.77%

Run 1: Report of PCC-Expr — Data Link

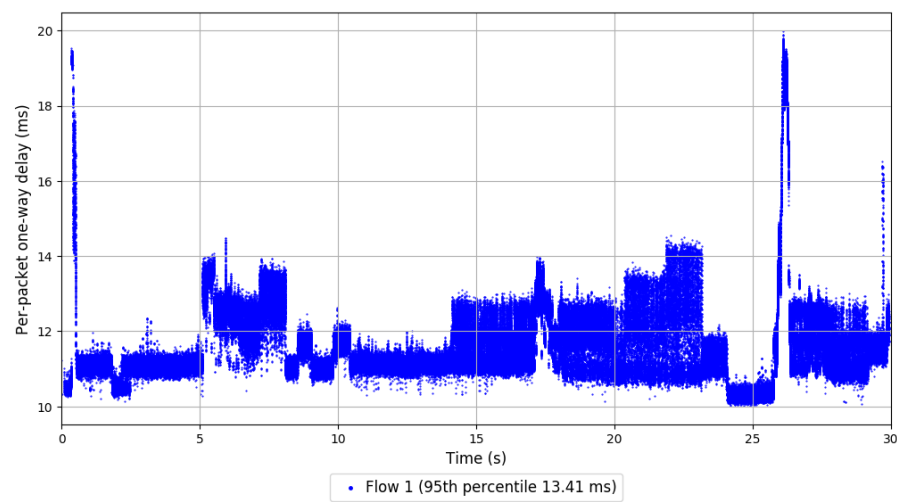
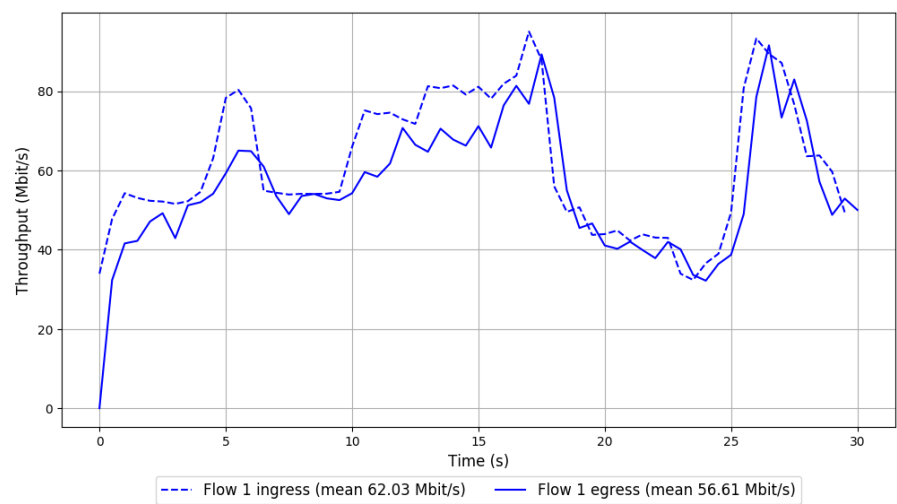


Run 2: Statistics of PCC-Expr

Start at: 2018-05-30 08:49:42
End at: 2018-05-30 08:50:12
Local clock offset: -1.229 ms
Remote clock offset: -10.653 ms

Below is generated by plot.py at 2018-05-30 11:34:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 56.61 Mbit/s
95th percentile per-packet one-way delay: 13.414 ms
Loss rate: 8.74%
-- Flow 1:
Average throughput: 56.61 Mbit/s
95th percentile per-packet one-way delay: 13.414 ms
Loss rate: 8.74%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-05-30 09:07:41

End at: 2018-05-30 09:08:11

Local clock offset: -0.621 ms

Remote clock offset: 4.553 ms

Below is generated by plot.py at 2018-05-30 11:34:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.02 Mbit/s

95th percentile per-packet one-way delay: 24.800 ms

Loss rate: 8.88%

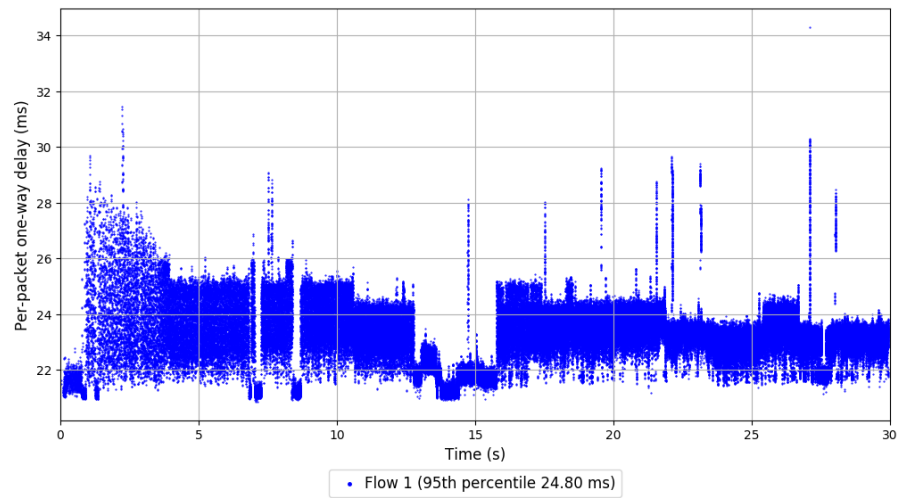
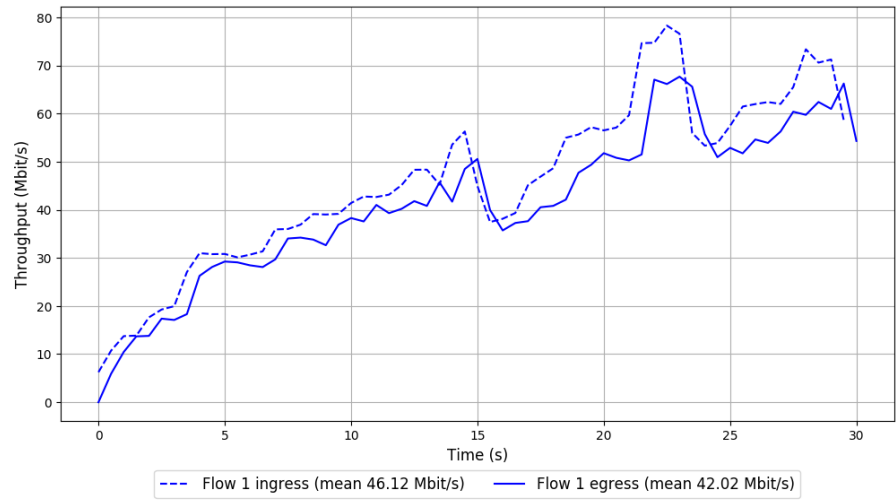
-- Flow 1:

Average throughput: 42.02 Mbit/s

95th percentile per-packet one-way delay: 24.800 ms

Loss rate: 8.88%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-05-30 09:25:41

End at: 2018-05-30 09:26:11

Local clock offset: 0.221 ms

Remote clock offset: 1.474 ms

Below is generated by plot.py at 2018-05-30 11:34:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.73 Mbit/s

95th percentile per-packet one-way delay: 21.104 ms

Loss rate: 3.98%

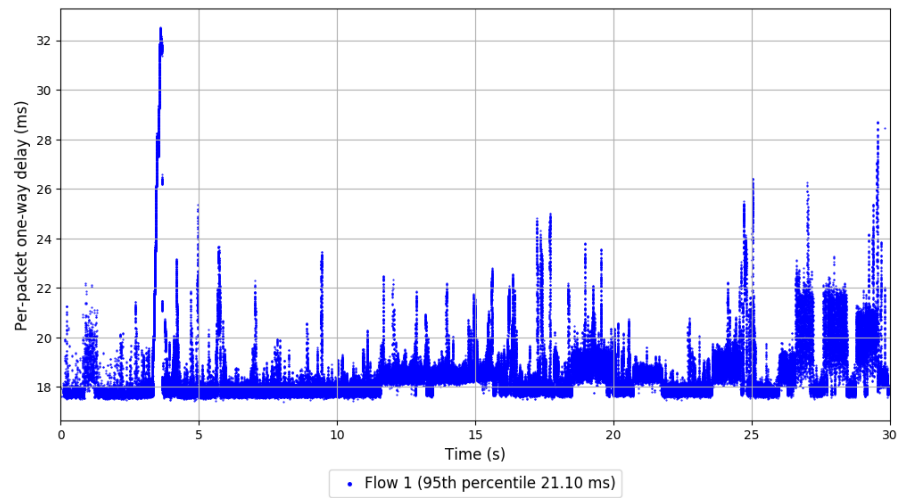
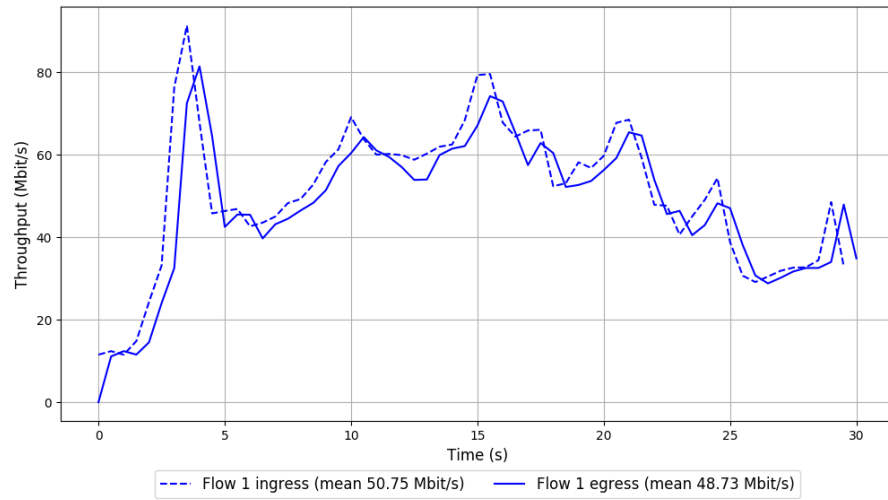
-- Flow 1:

Average throughput: 48.73 Mbit/s

95th percentile per-packet one-way delay: 21.104 ms

Loss rate: 3.98%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-05-30 09:43:48

End at: 2018-05-30 09:44:18

Local clock offset: -2.512 ms

Remote clock offset: 2.14 ms

Below is generated by plot.py at 2018-05-30 11:34:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.71 Mbit/s

95th percentile per-packet one-way delay: 27.064 ms

Loss rate: 8.03%

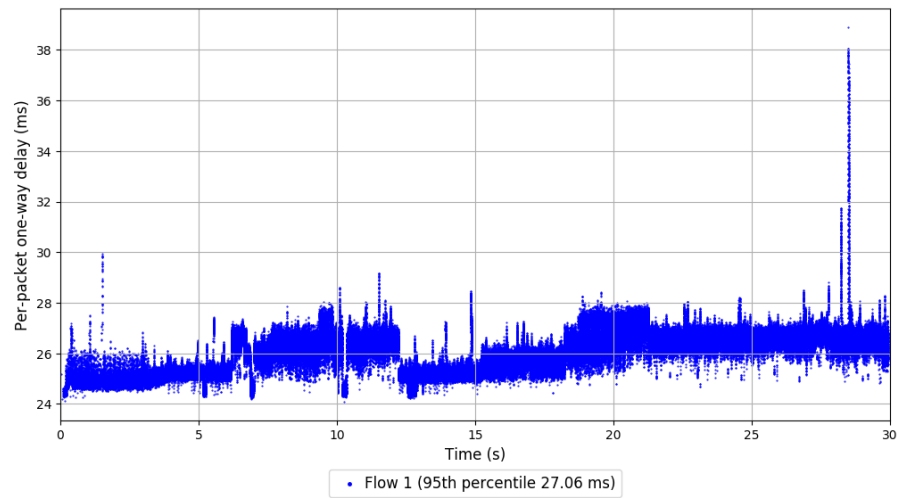
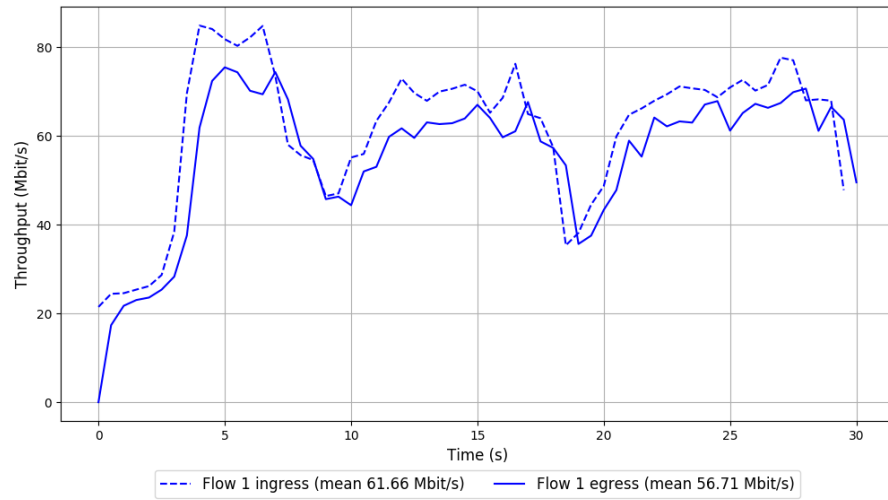
-- Flow 1:

Average throughput: 56.71 Mbit/s

95th percentile per-packet one-way delay: 27.064 ms

Loss rate: 8.03%

Run 5: Report of PCC-Expr — Data Link

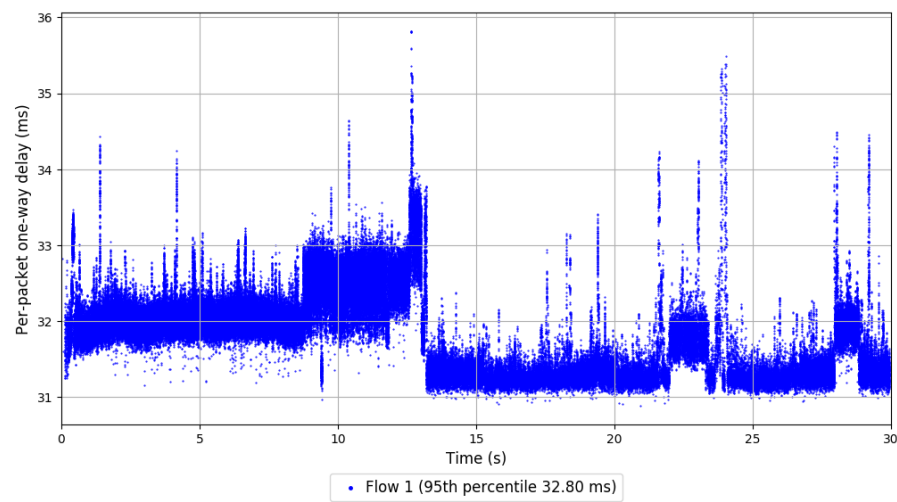
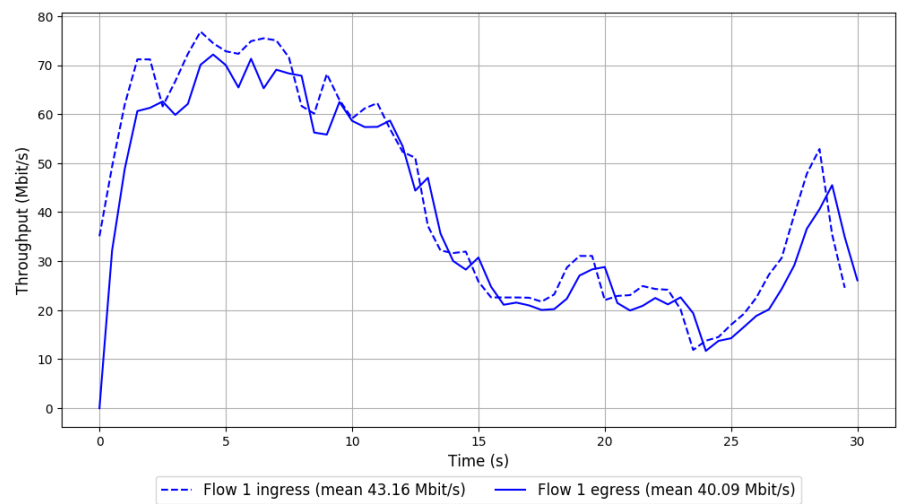


Run 6: Statistics of PCC-Expr

Start at: 2018-05-30 10:01:50
End at: 2018-05-30 10:02:20
Local clock offset: 1.058 ms
Remote clock offset: 11.054 ms

Below is generated by plot.py at 2018-05-30 11:34:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 40.09 Mbit/s
95th percentile per-packet one-way delay: 32.796 ms
Loss rate: 7.11%
-- Flow 1:
Average throughput: 40.09 Mbit/s
95th percentile per-packet one-way delay: 32.796 ms
Loss rate: 7.11%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-05-30 10:19:45

End at: 2018-05-30 10:20:15

Local clock offset: -0.78 ms

Remote clock offset: 1.596 ms

Below is generated by plot.py at 2018-05-30 11:34:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.51 Mbit/s

95th percentile per-packet one-way delay: 25.921 ms

Loss rate: 7.62%

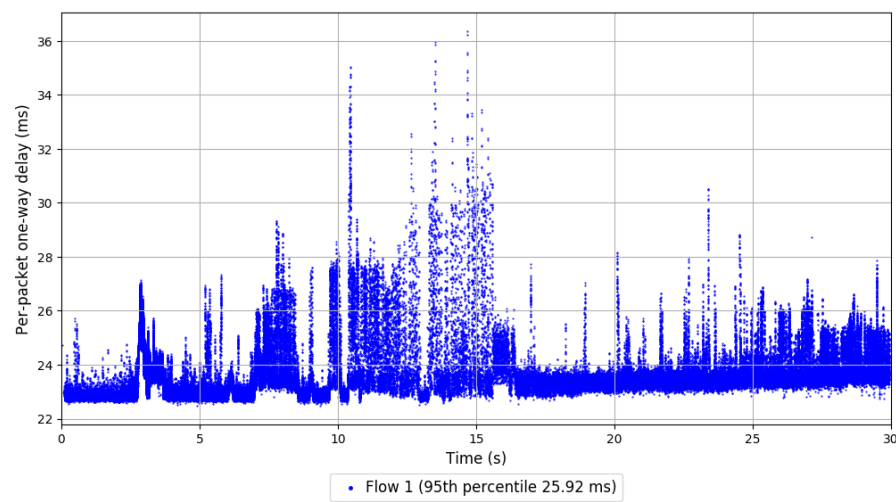
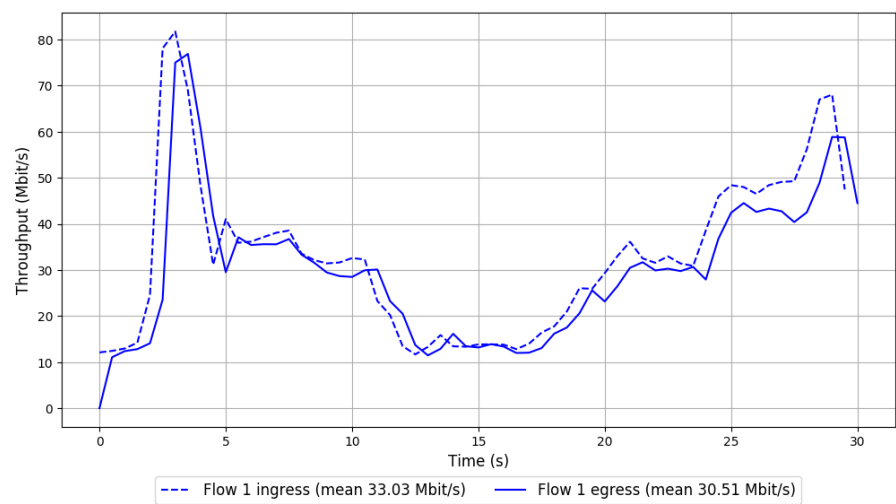
-- Flow 1:

Average throughput: 30.51 Mbit/s

95th percentile per-packet one-way delay: 25.921 ms

Loss rate: 7.62%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-05-30 10:37:32

End at: 2018-05-30 10:38:02

Local clock offset: -0.703 ms

Remote clock offset: 4.899 ms

Below is generated by plot.py at 2018-05-30 11:34:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.56 Mbit/s

95th percentile per-packet one-way delay: 23.098 ms

Loss rate: 9.72%

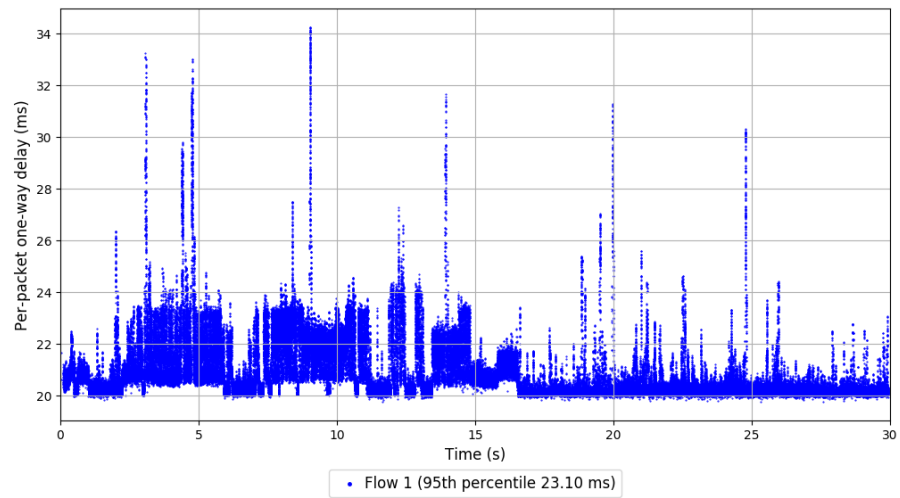
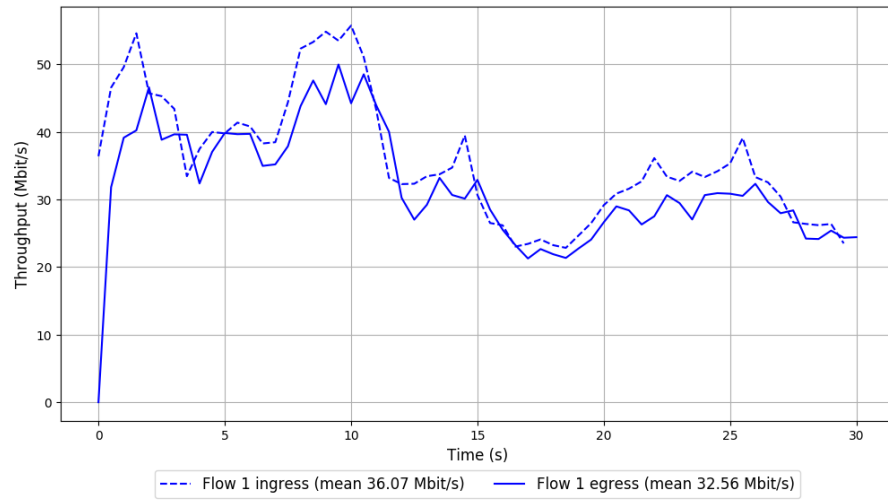
-- Flow 1:

Average throughput: 32.56 Mbit/s

95th percentile per-packet one-way delay: 23.098 ms

Loss rate: 9.72%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-05-30 10:55:26

End at: 2018-05-30 10:55:56

Local clock offset: -0.934 ms

Remote clock offset: 6.214 ms

Below is generated by plot.py at 2018-05-30 11:34:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.27 Mbit/s

95th percentile per-packet one-way delay: 25.429 ms

Loss rate: 7.35%

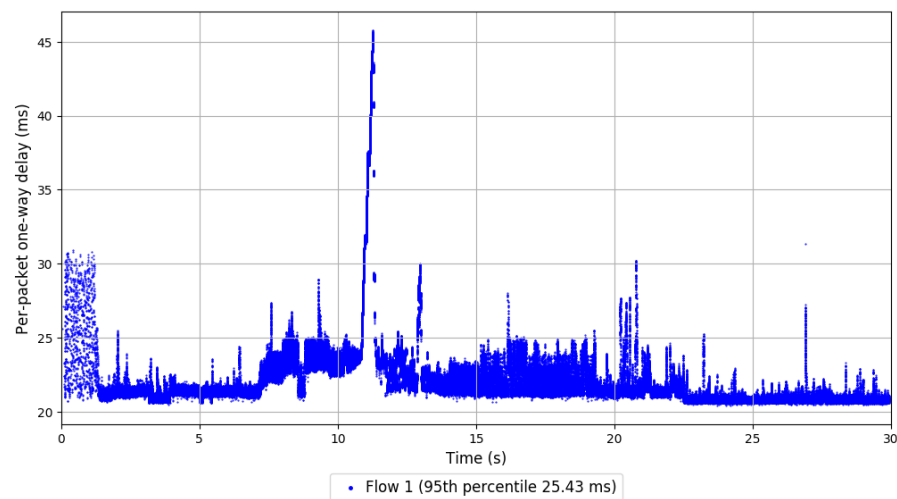
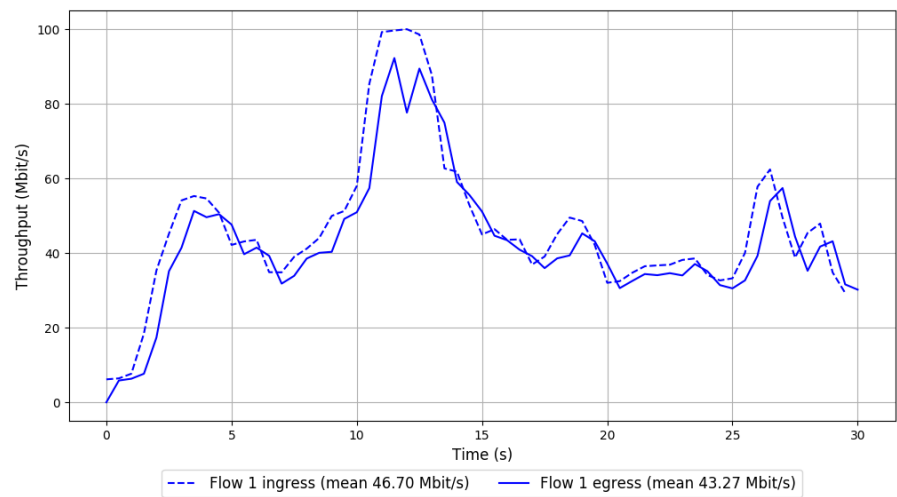
-- Flow 1:

Average throughput: 43.27 Mbit/s

95th percentile per-packet one-way delay: 25.429 ms

Loss rate: 7.35%

Run 9: Report of PCC-Expr — Data Link

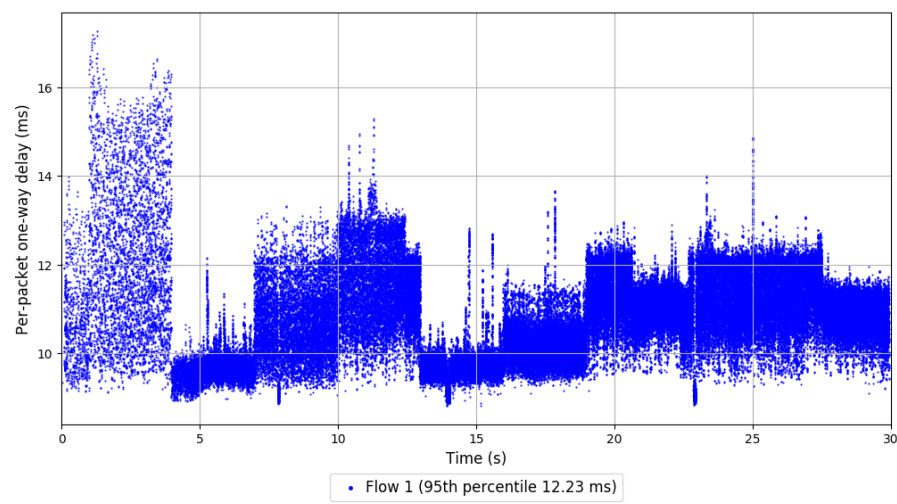
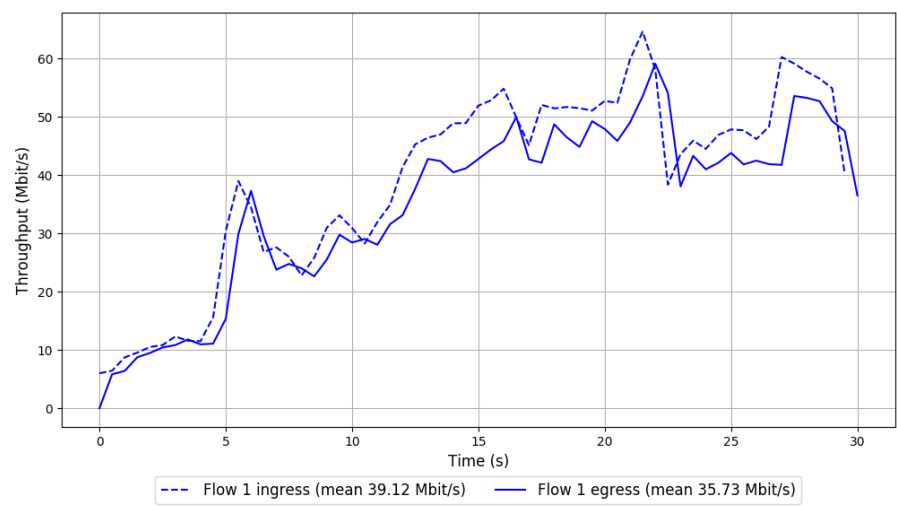


Run 10: Statistics of PCC-Expr

Start at: 2018-05-30 11:13:34
End at: 2018-05-30 11:14:04
Local clock offset: 1.208 ms
Remote clock offset: -4.858 ms

Below is generated by plot.py at 2018-05-30 11:35:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 35.73 Mbit/s
95th percentile per-packet one-way delay: 12.229 ms
Loss rate: 8.68%
-- Flow 1:
Average throughput: 35.73 Mbit/s
95th percentile per-packet one-way delay: 12.229 ms
Loss rate: 8.68%

Run 10: Report of PCC-Expr — Data Link

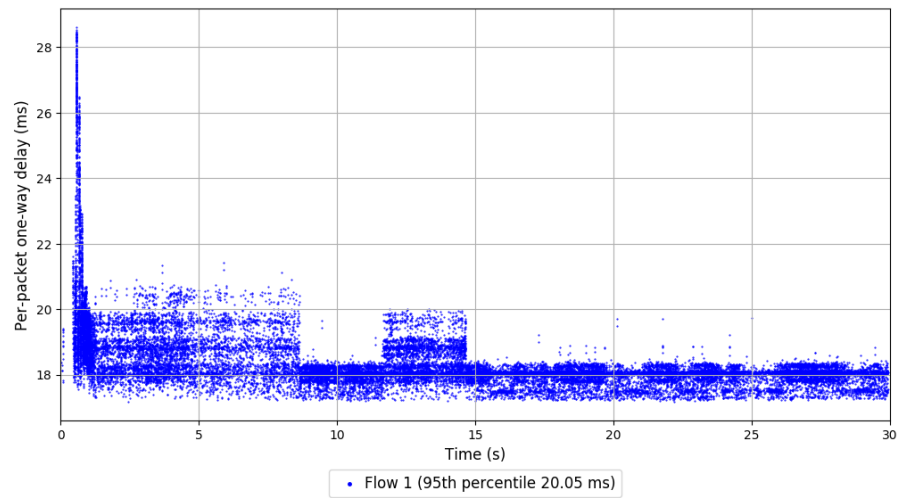
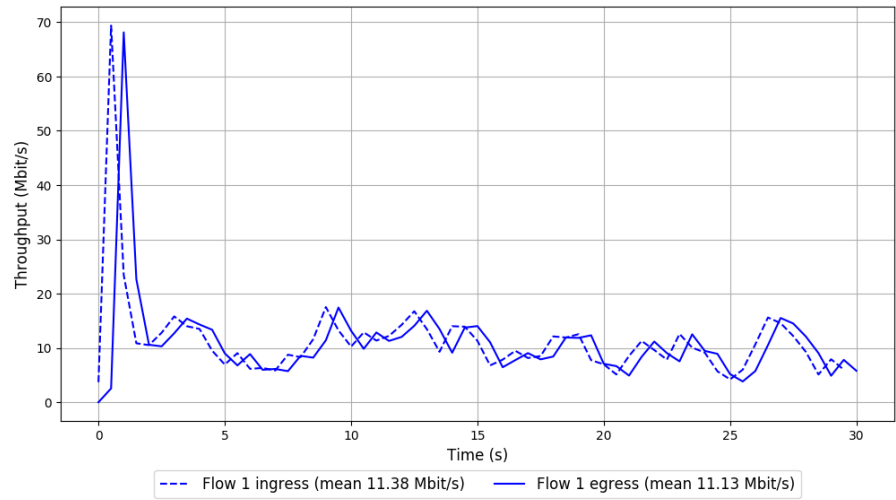


Run 1: Statistics of QUIC Cubic

Start at: 2018-05-30 08:37:11
End at: 2018-05-30 08:37:41
Local clock offset: 2.851 ms
Remote clock offset: -5.248 ms

Below is generated by plot.py at 2018-05-30 11:35:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.13 Mbit/s
95th percentile per-packet one-way delay: 20.049 ms
Loss rate: 2.14%
-- Flow 1:
Average throughput: 11.13 Mbit/s
95th percentile per-packet one-way delay: 20.049 ms
Loss rate: 2.14%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-30 08:55:14

End at: 2018-05-30 08:55:44

Local clock offset: 0.228 ms

Remote clock offset: 3.898 ms

Below is generated by plot.py at 2018-05-30 11:35:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.54 Mbit/s

95th percentile per-packet one-way delay: 27.508 ms

Loss rate: 5.86%

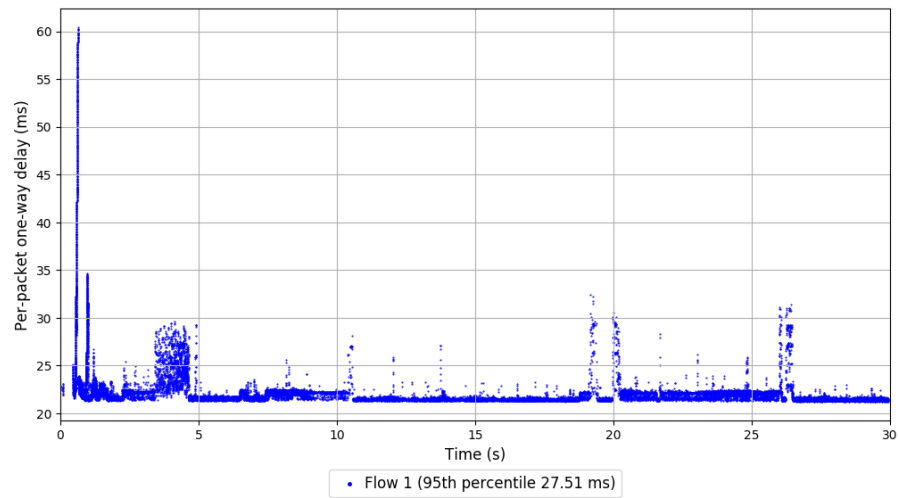
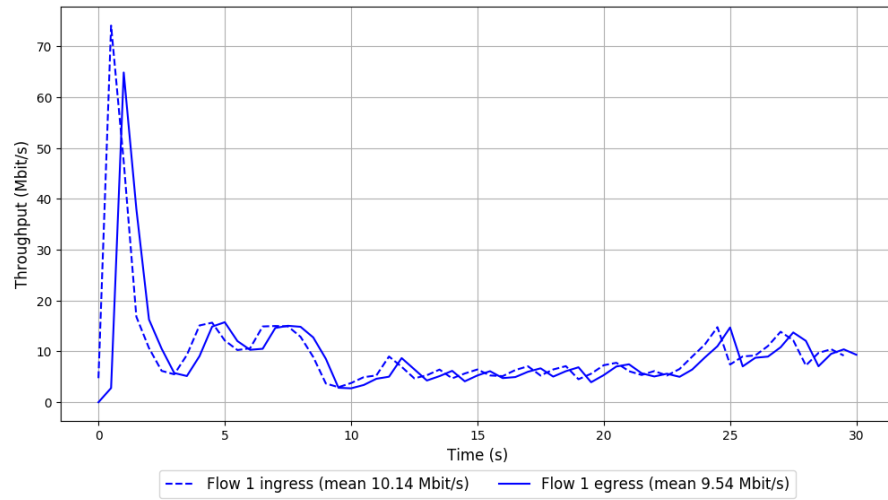
-- Flow 1:

Average throughput: 9.54 Mbit/s

95th percentile per-packet one-way delay: 27.508 ms

Loss rate: 5.86%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-05-30 09:13:16

End at: 2018-05-30 09:13:46

Local clock offset: -1.275 ms

Remote clock offset: 10.126 ms

Below is generated by plot.py at 2018-05-30 11:35:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.56 Mbit/s

95th percentile per-packet one-way delay: 30.688 ms

Loss rate: 0.47%

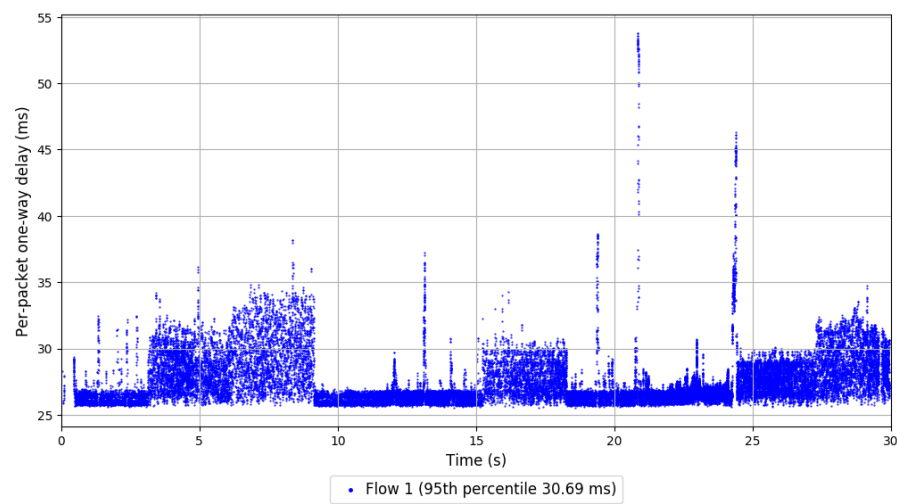
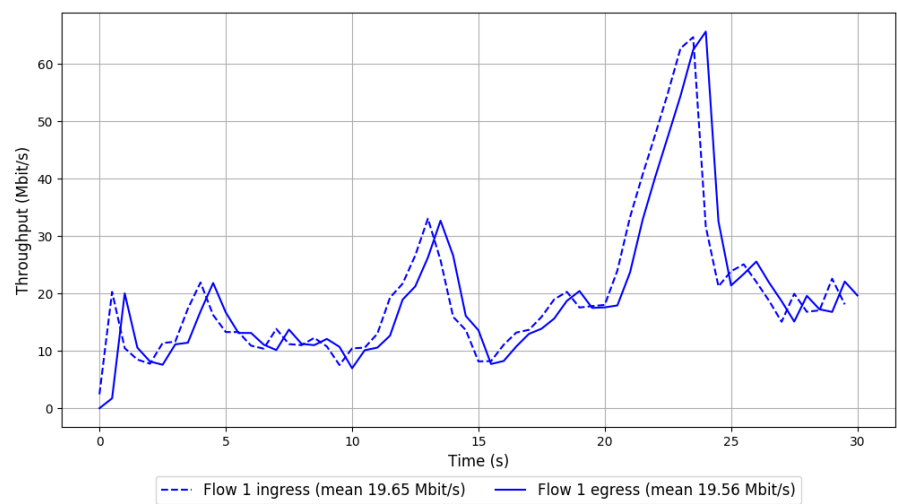
-- Flow 1:

Average throughput: 19.56 Mbit/s

95th percentile per-packet one-way delay: 30.688 ms

Loss rate: 0.47%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-30 09:31:13

End at: 2018-05-30 09:31:43

Local clock offset: -3.708 ms

Remote clock offset: 4.276 ms

Below is generated by plot.py at 2018-05-30 11:35:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.85 Mbit/s

95th percentile per-packet one-way delay: 30.626 ms

Loss rate: 2.82%

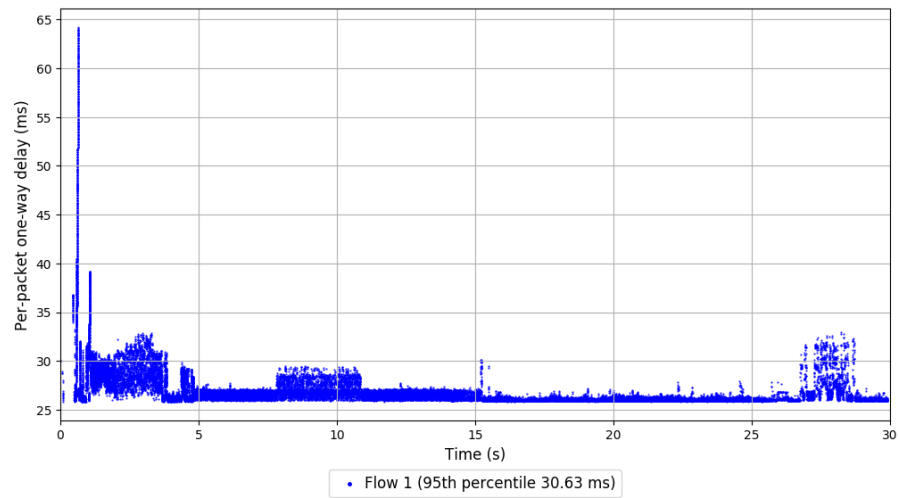
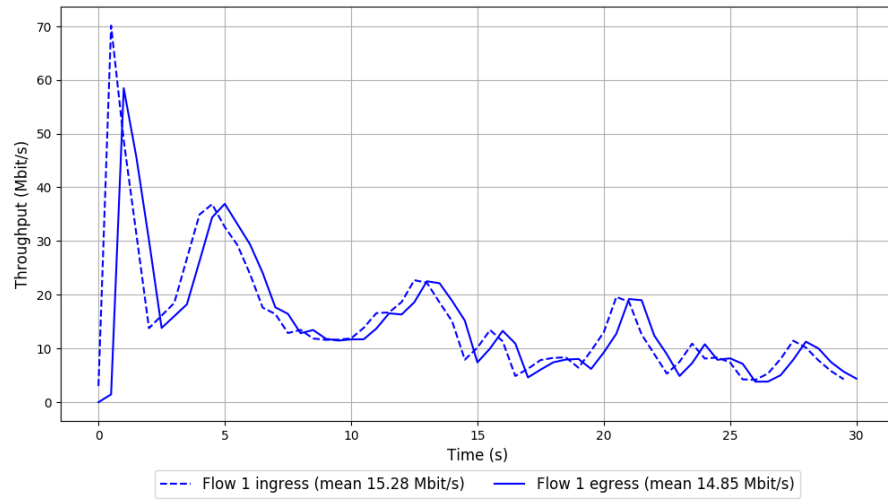
-- Flow 1:

Average throughput: 14.85 Mbit/s

95th percentile per-packet one-way delay: 30.626 ms

Loss rate: 2.82%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-05-30 09:49:27

End at: 2018-05-30 09:49:57

Local clock offset: -2.327 ms

Remote clock offset: 4.669 ms

Below is generated by plot.py at 2018-05-30 11:35:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.78 Mbit/s

95th percentile per-packet one-way delay: 51.082 ms

Loss rate: 4.46%

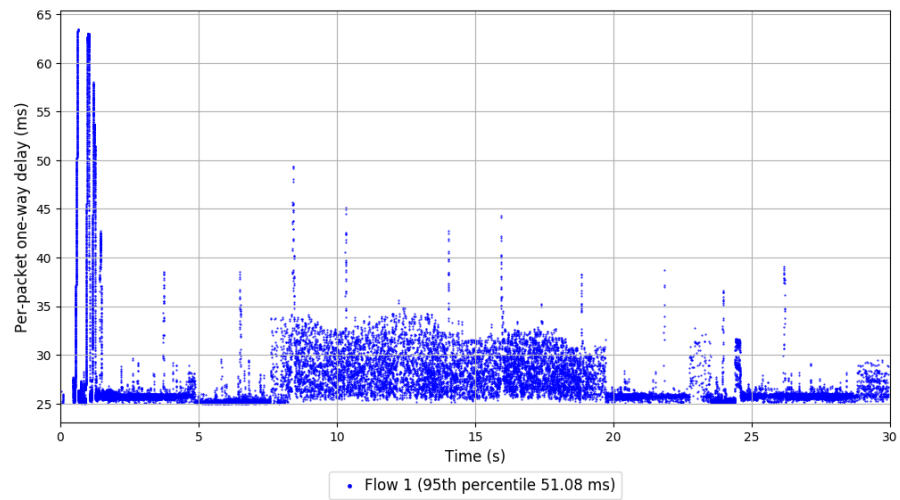
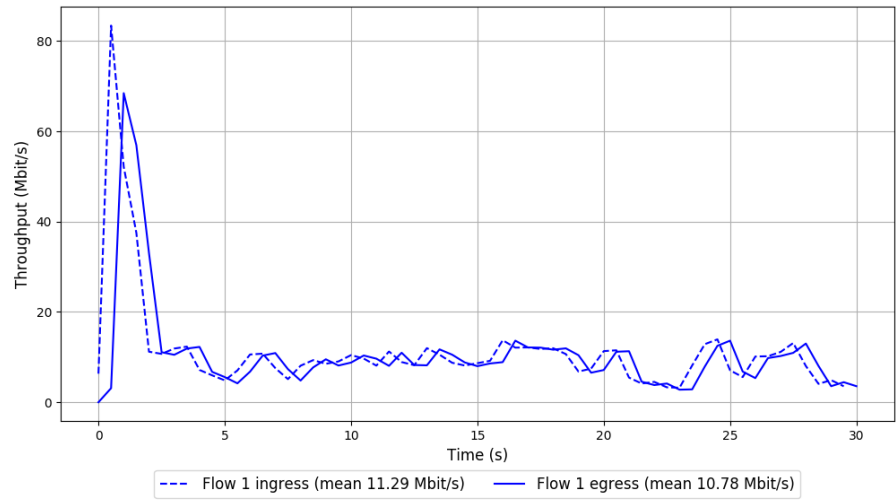
-- Flow 1:

Average throughput: 10.78 Mbit/s

95th percentile per-packet one-way delay: 51.082 ms

Loss rate: 4.46%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-30 10:07:24

End at: 2018-05-30 10:07:54

Local clock offset: -2.413 ms

Remote clock offset: 6.499 ms

Below is generated by plot.py at 2018-05-30 11:35:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.00 Mbit/s

95th percentile per-packet one-way delay: 31.142 ms

Loss rate: 4.53%

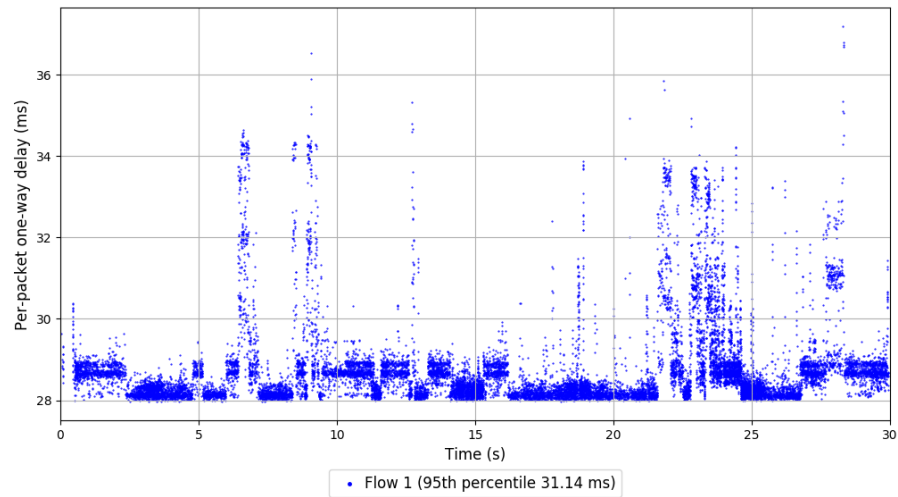
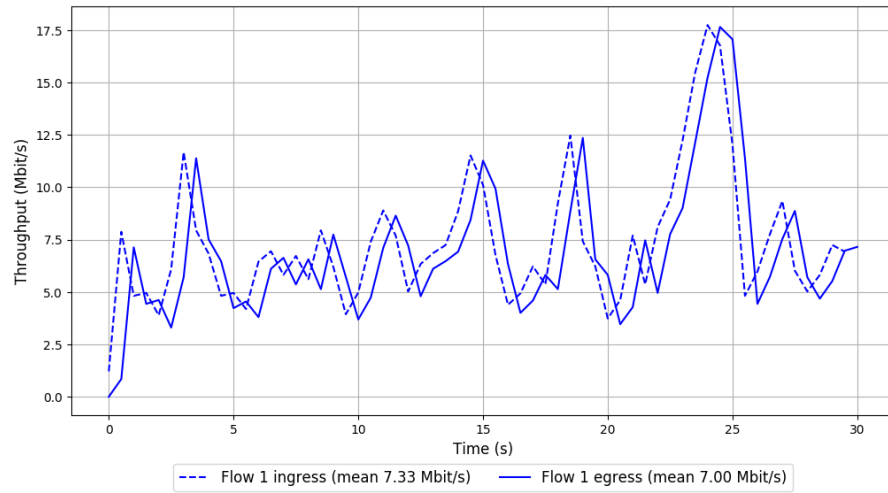
-- Flow 1:

Average throughput: 7.00 Mbit/s

95th percentile per-packet one-way delay: 31.142 ms

Loss rate: 4.53%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-05-30 10:25:13

End at: 2018-05-30 10:25:43

Local clock offset: -0.431 ms

Remote clock offset: 4.667 ms

Below is generated by plot.py at 2018-05-30 11:35:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.92 Mbit/s

95th percentile per-packet one-way delay: 32.383 ms

Loss rate: 3.51%

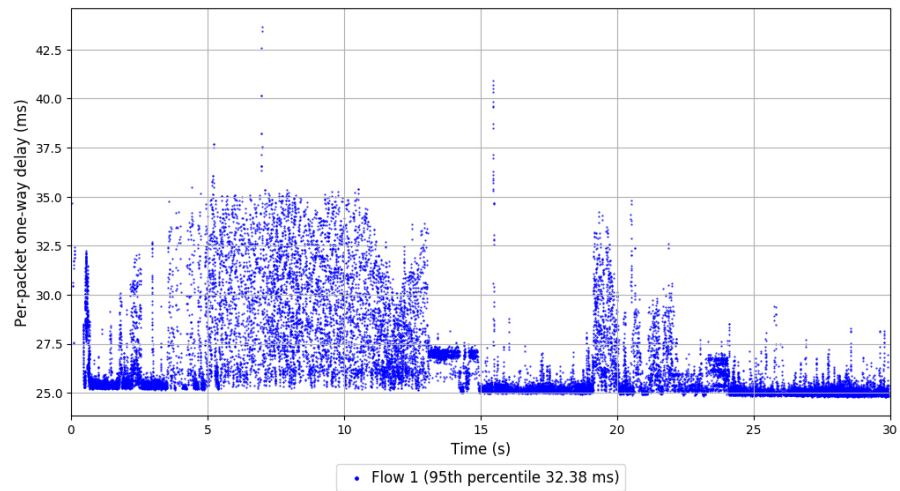
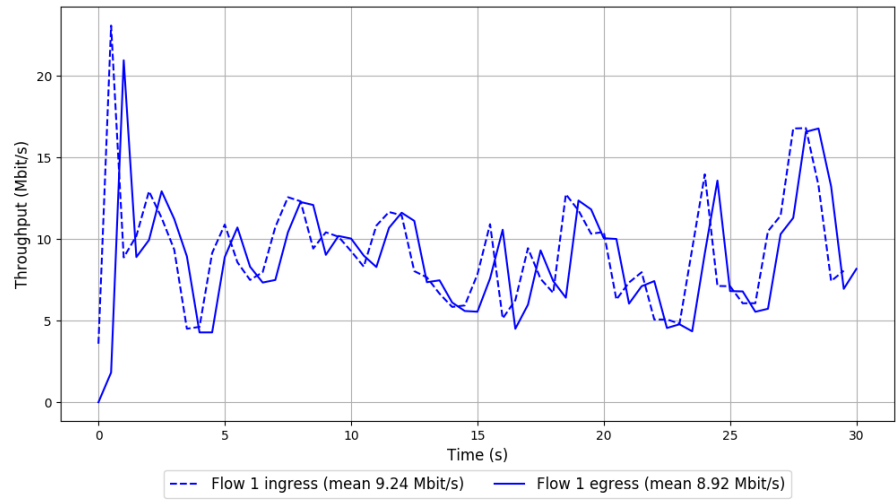
-- Flow 1:

Average throughput: 8.92 Mbit/s

95th percentile per-packet one-way delay: 32.383 ms

Loss rate: 3.51%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-30 10:43:01

End at: 2018-05-30 10:43:31

Local clock offset: -0.657 ms

Remote clock offset: 8.321 ms

Below is generated by plot.py at 2018-05-30 11:35:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.16 Mbit/s

95th percentile per-packet one-way delay: 26.705 ms

Loss rate: 2.28%

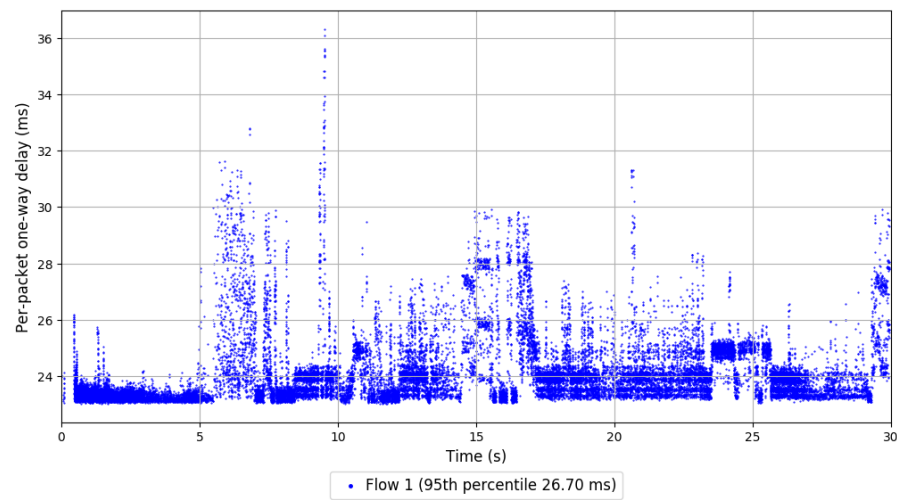
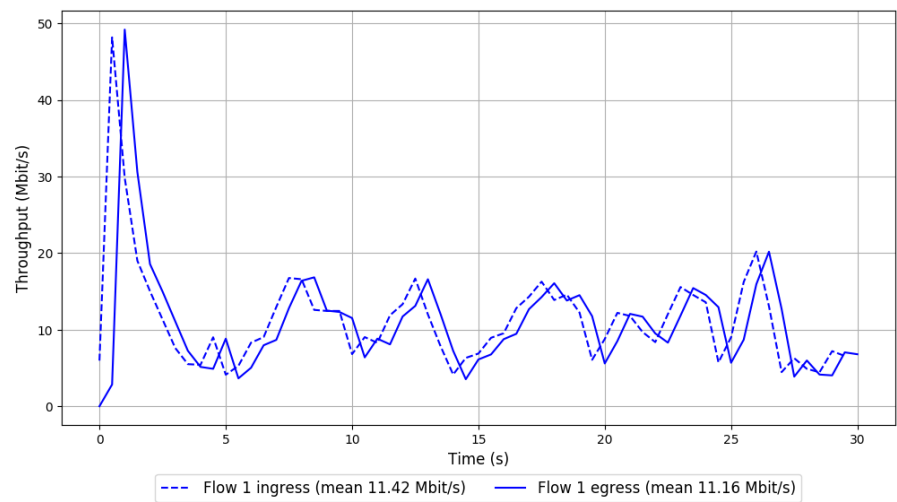
-- Flow 1:

Average throughput: 11.16 Mbit/s

95th percentile per-packet one-way delay: 26.705 ms

Loss rate: 2.28%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-05-30 11:01:01

End at: 2018-05-30 11:01:31

Local clock offset: 1.051 ms

Remote clock offset: 9.97 ms

Below is generated by plot.py at 2018-05-30 11:35:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.98 Mbit/s

95th percentile per-packet one-way delay: 26.444 ms

Loss rate: 1.46%

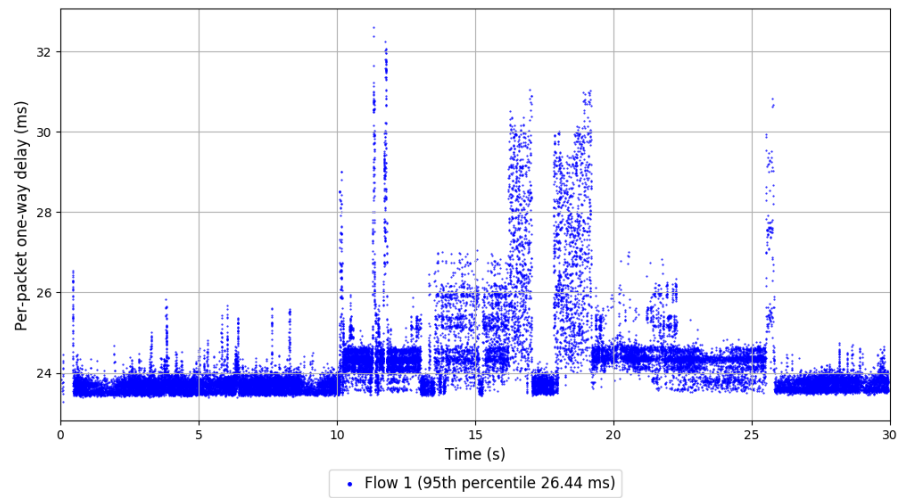
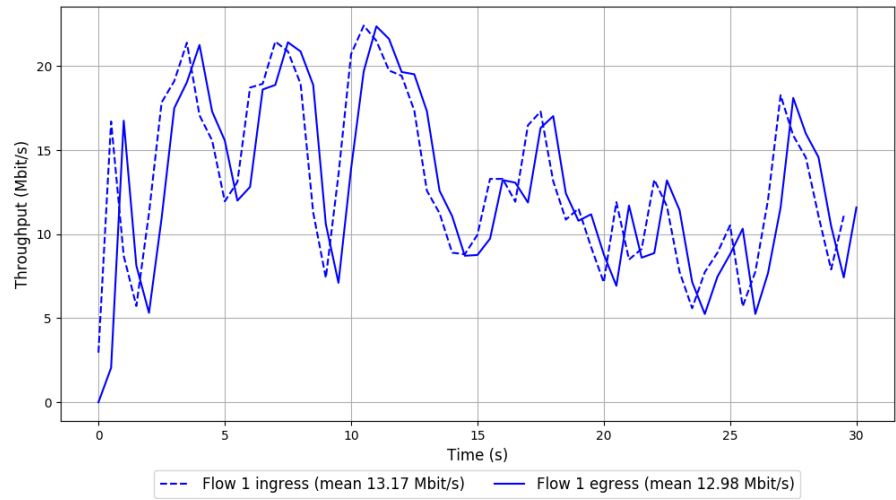
-- Flow 1:

Average throughput: 12.98 Mbit/s

95th percentile per-packet one-way delay: 26.444 ms

Loss rate: 1.46%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-30 11:19:04

End at: 2018-05-30 11:19:34

Local clock offset: 2.389 ms

Remote clock offset: 12.082 ms

Below is generated by plot.py at 2018-05-30 11:35:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.27 Mbit/s

95th percentile per-packet one-way delay: 30.332 ms

Loss rate: 2.01%

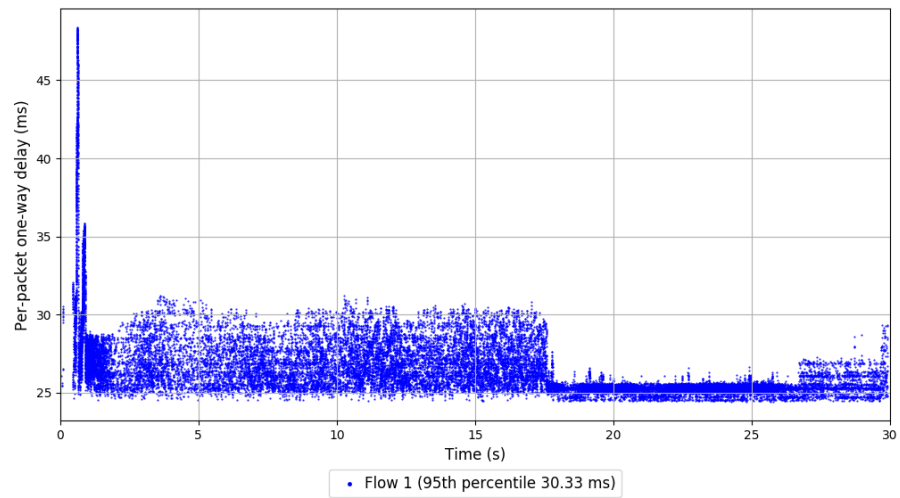
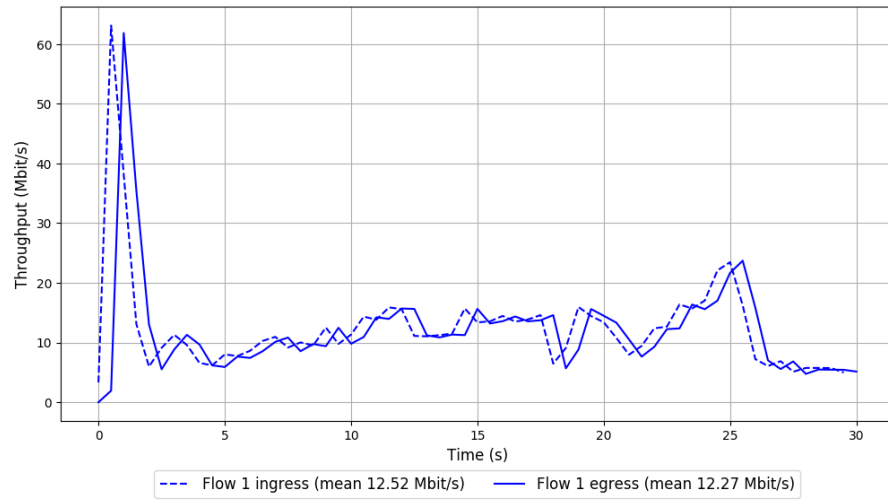
-- Flow 1:

Average throughput: 12.27 Mbit/s

95th percentile per-packet one-way delay: 30.332 ms

Loss rate: 2.01%

Run 10: Report of QUIC Cubic — Data Link

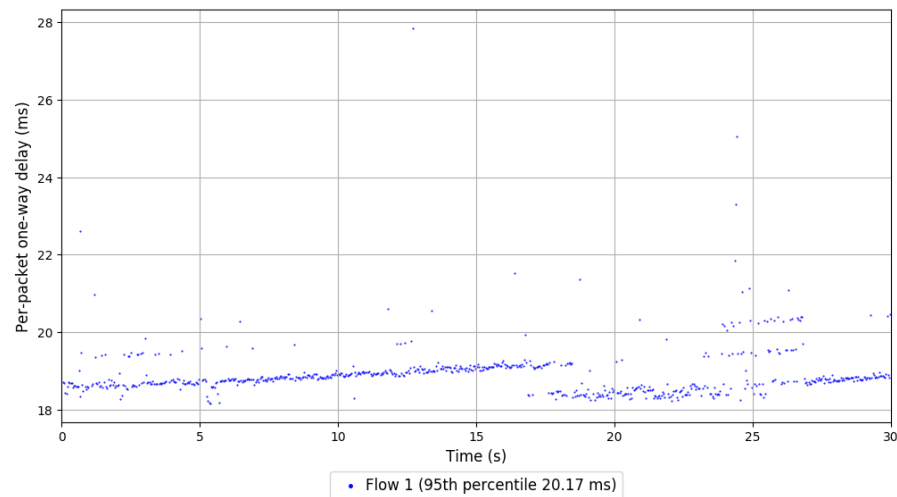
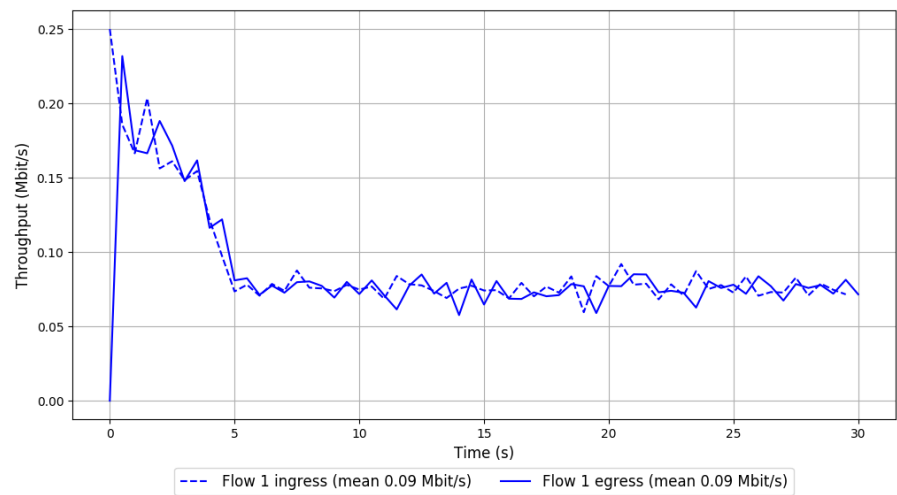


Run 1: Statistics of SCReAM

Start at: 2018-05-30 08:30:30
End at: 2018-05-30 08:31:00
Local clock offset: 0.26 ms
Remote clock offset: -4.704 ms

Below is generated by plot.py at 2018-05-30 11:35:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 20.171 ms
Loss rate: 2.79%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 20.171 ms
Loss rate: 2.79%

Run 1: Report of SReAM — Data Link

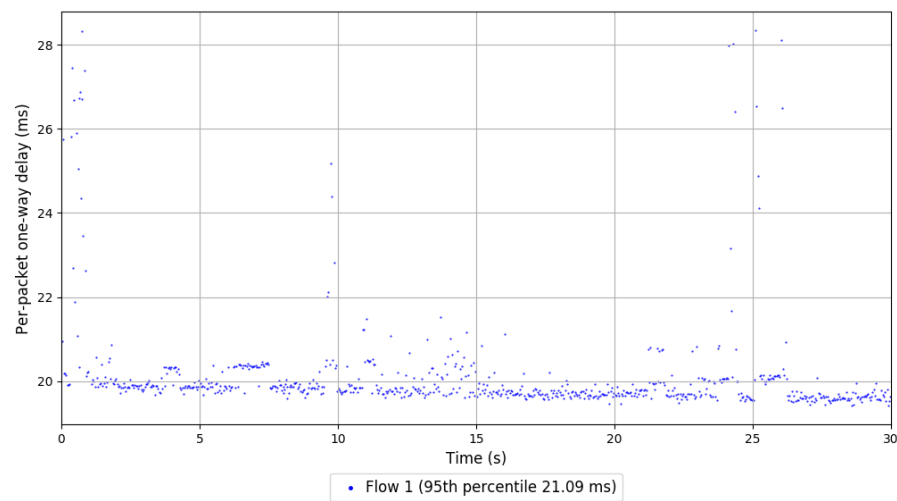
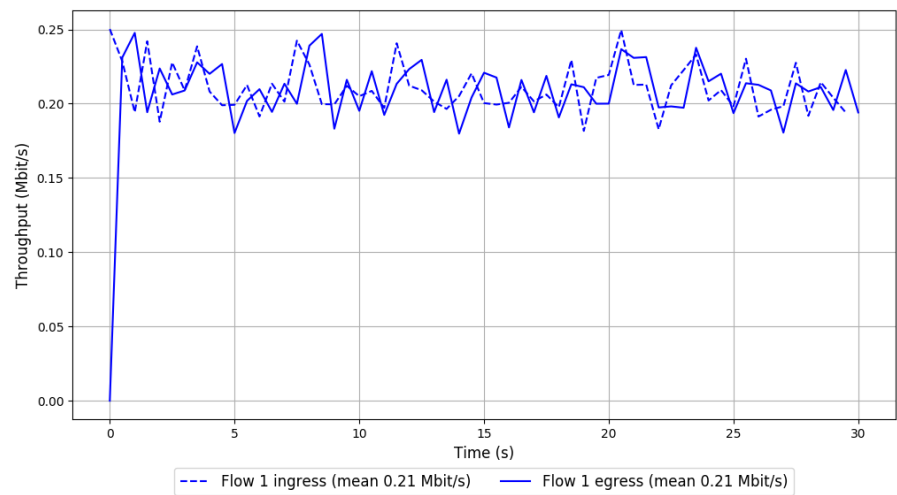


Run 2: Statistics of SCReAM

Start at: 2018-05-30 08:48:37
End at: 2018-05-30 08:49:07
Local clock offset: 0.197 ms
Remote clock offset: -0.373 ms

Below is generated by plot.py at 2018-05-30 11:35:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 21.085 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 21.085 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-05-30 09:06:37

End at: 2018-05-30 09:07:07

Local clock offset: -0.172 ms

Remote clock offset: 7.478 ms

Below is generated by plot.py at 2018-05-30 11:35:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 28.654 ms

Loss rate: 0.14%

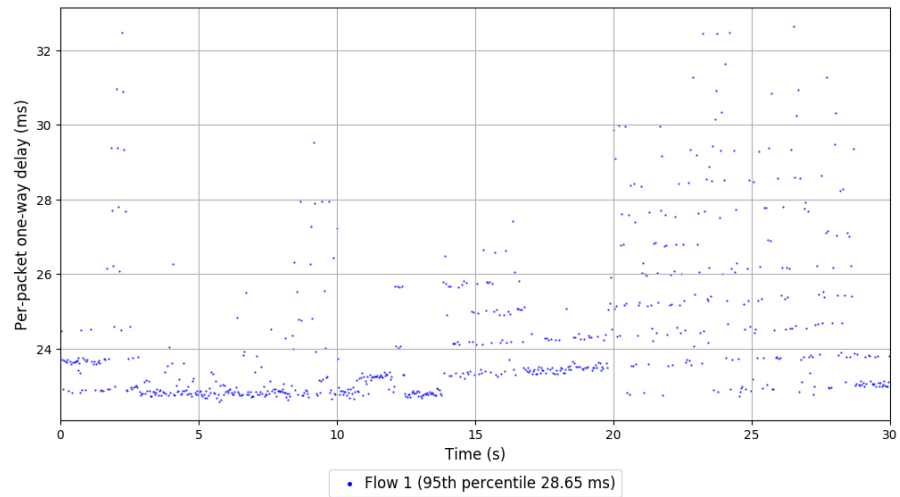
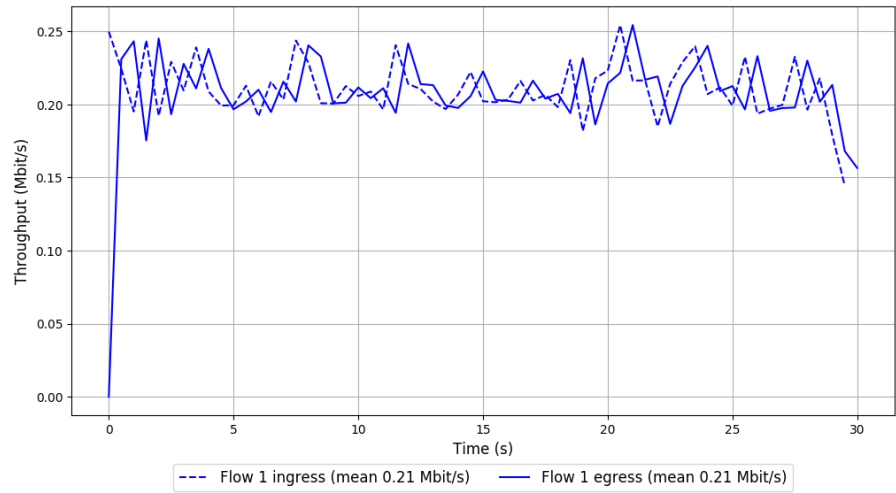
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 28.654 ms

Loss rate: 0.14%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-05-30 09:24:37

End at: 2018-05-30 09:25:07

Local clock offset: 0.207 ms

Remote clock offset: 7.555 ms

Below is generated by plot.py at 2018-05-30 11:35:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 25.536 ms

Loss rate: 0.00%

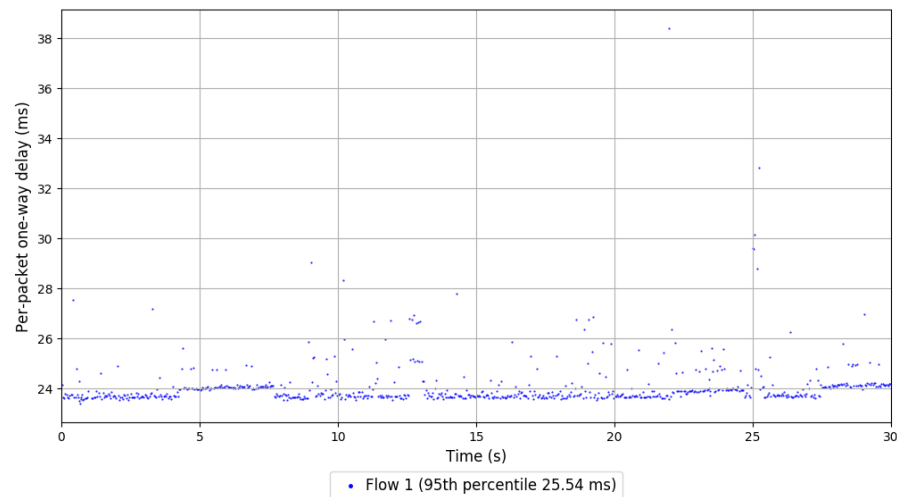
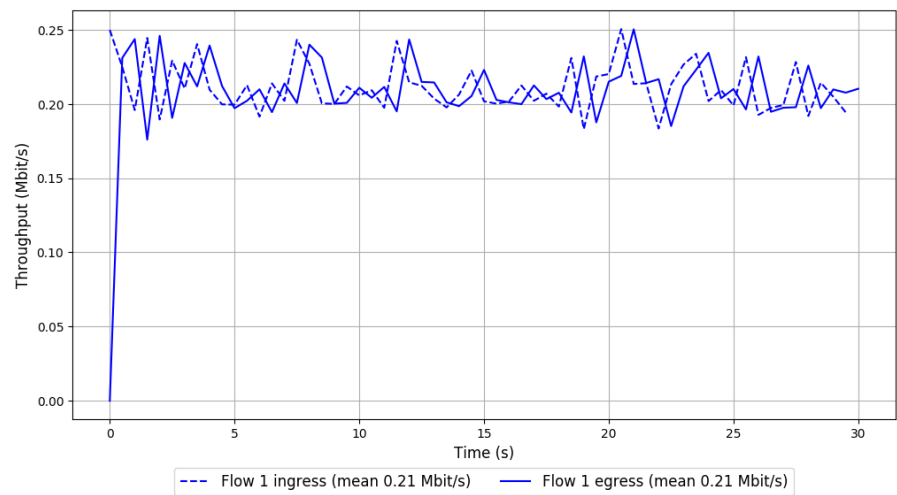
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 25.536 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-05-30 09:42:43

End at: 2018-05-30 09:43:13

Local clock offset: 0.186 ms

Remote clock offset: 0.866 ms

Below is generated by plot.py at 2018-05-30 11:35:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 24.590 ms

Loss rate: 1.48%

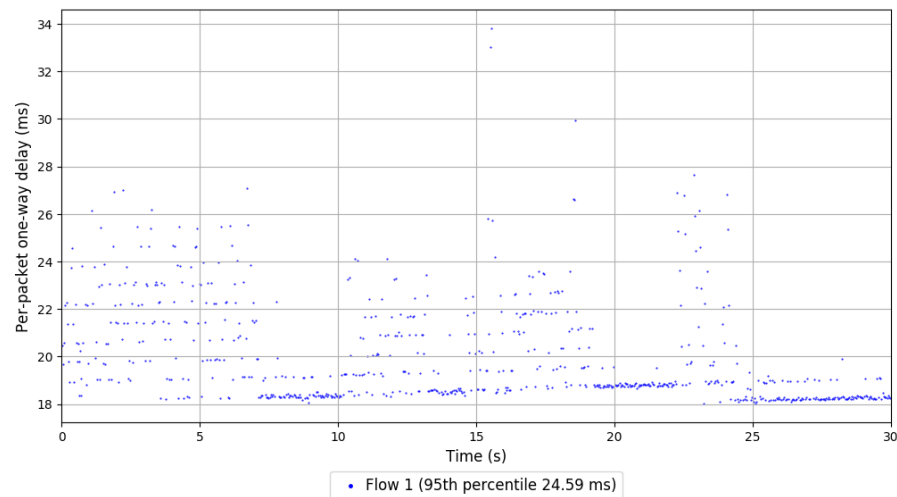
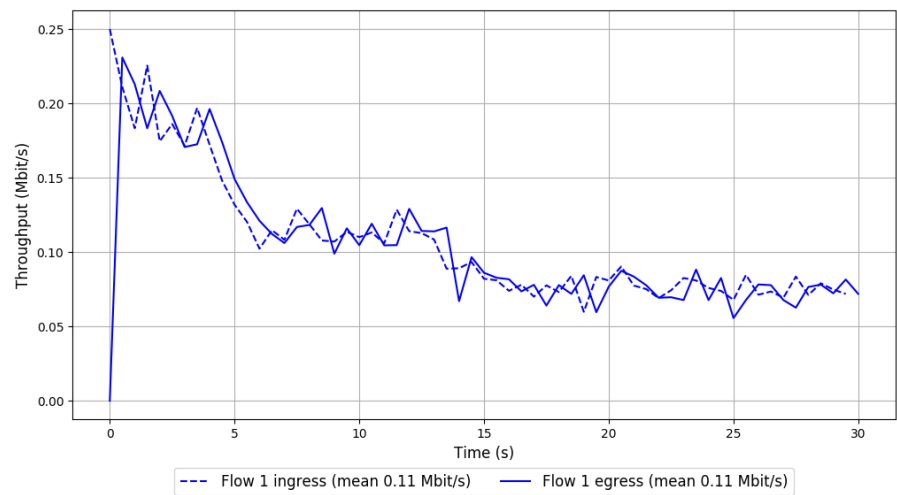
-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 24.590 ms

Loss rate: 1.48%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-05-30 10:00:46

End at: 2018-05-30 10:01:16

Local clock offset: -0.508 ms

Remote clock offset: 5.675 ms

Below is generated by plot.py at 2018-05-30 11:35:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 29.918 ms

Loss rate: 4.65%

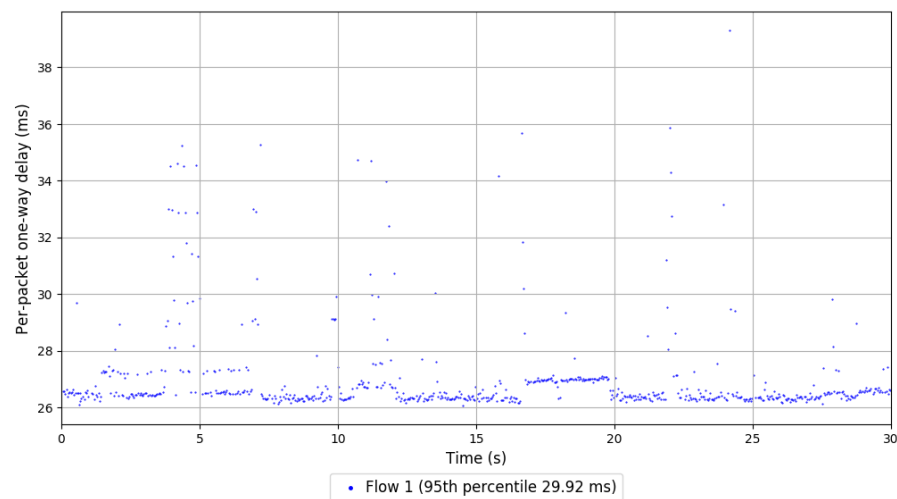
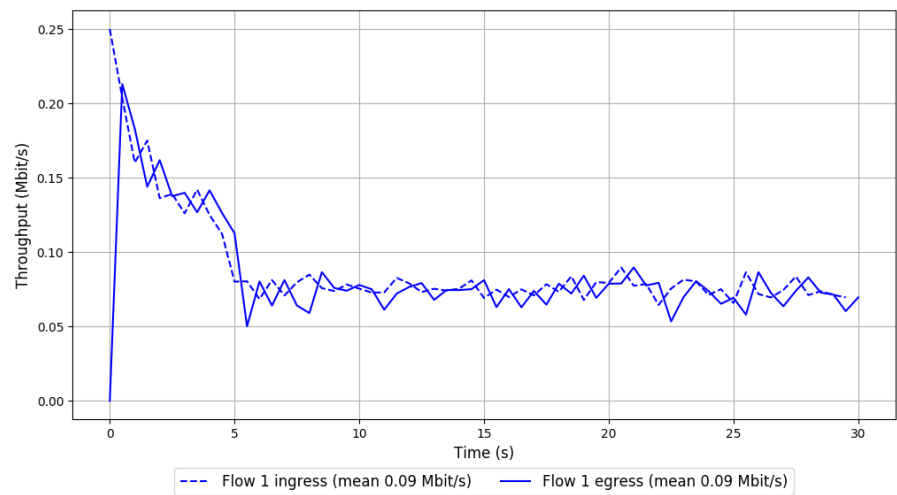
-- Flow 1:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 29.918 ms

Loss rate: 4.65%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-05-30 10:18:41

End at: 2018-05-30 10:19:11

Local clock offset: -0.511 ms

Remote clock offset: 1.566 ms

Below is generated by plot.py at 2018-05-30 11:35:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 24.548 ms

Loss rate: 1.68%

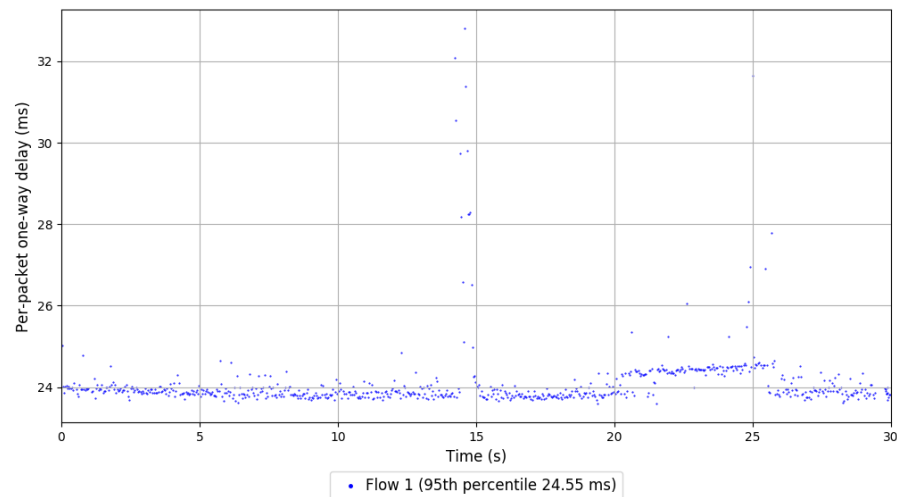
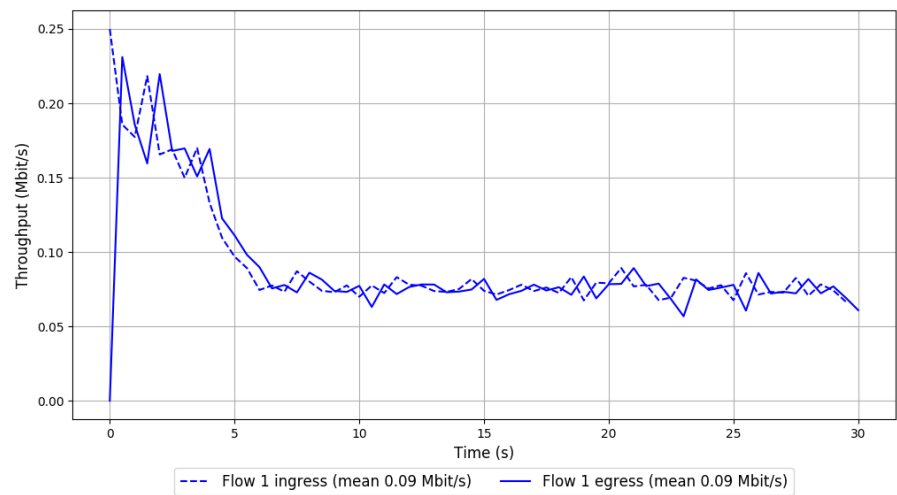
-- Flow 1:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 24.548 ms

Loss rate: 1.68%

Run 7: Report of SReAM — Data Link

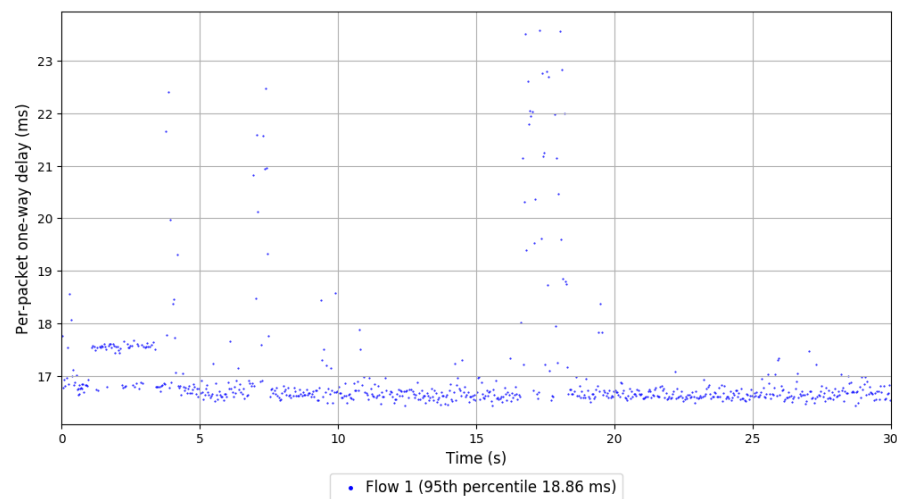
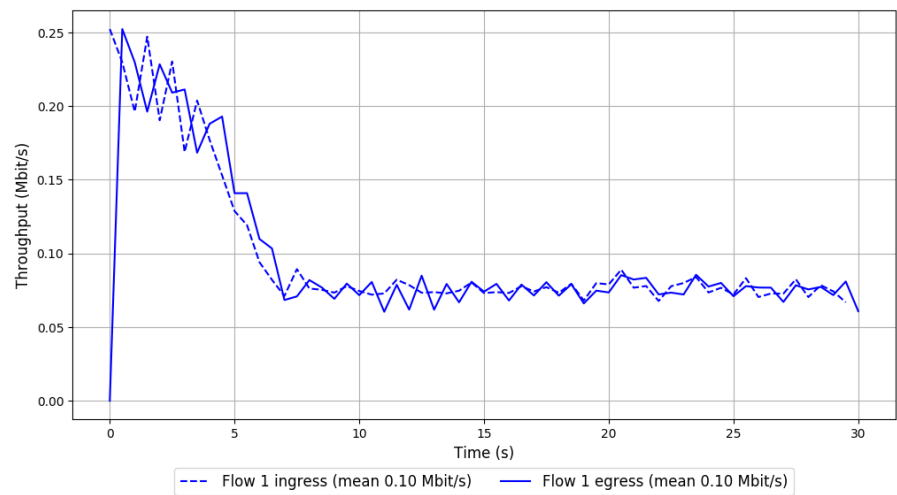


Run 8: Statistics of SCReAM

Start at: 2018-05-30 10:36:28
End at: 2018-05-30 10:36:58
Local clock offset: -3.623 ms
Remote clock offset: -2.444 ms

Below is generated by plot.py at 2018-05-30 11:35:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 18.859 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 18.859 ms
Loss rate: 1.32%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-05-30 10:54:22

End at: 2018-05-30 10:54:52

Local clock offset: -6.214 ms

Remote clock offset: -4.27 ms

Below is generated by plot.py at 2018-05-30 11:35:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 20.291 ms

Loss rate: 1.89%

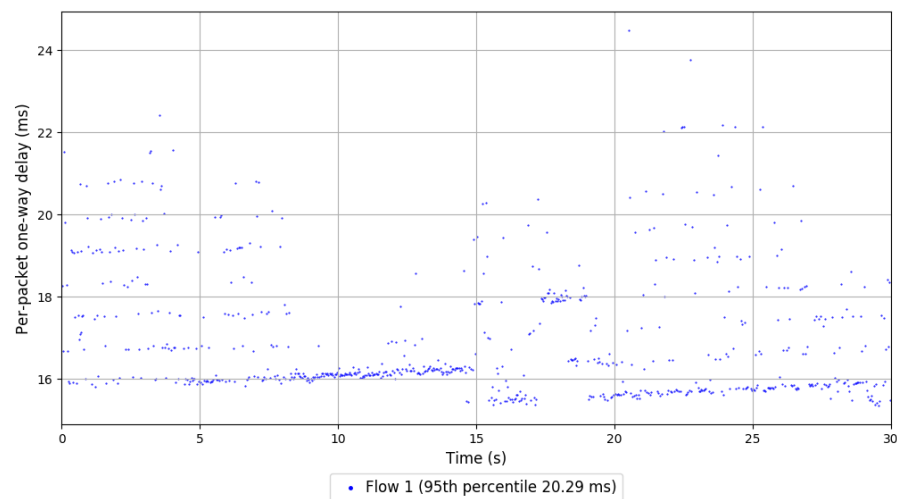
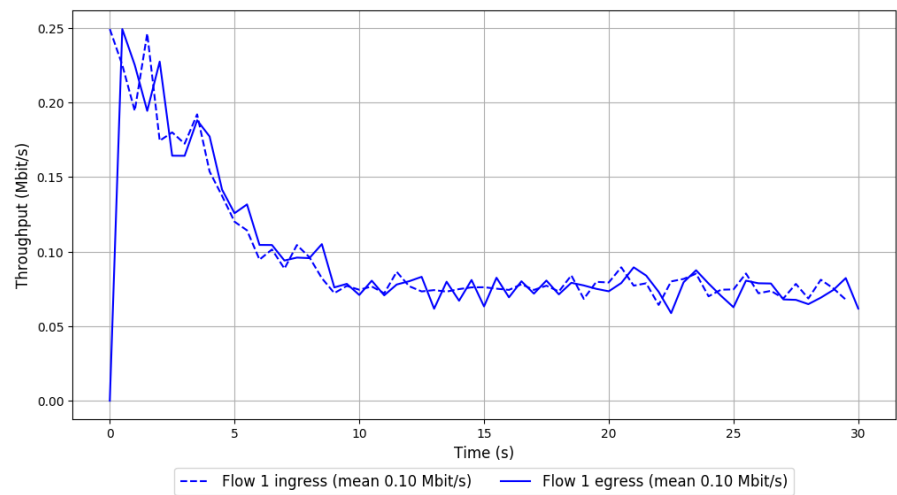
-- Flow 1:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 20.291 ms

Loss rate: 1.89%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

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

End at: 2018-05-30 11:13:00

Local clock offset: 3.976 ms

Remote clock offset: -4.445 ms

Below is generated by plot.py at 2018-05-30 11:35:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 10.967 ms

Loss rate: 3.84%

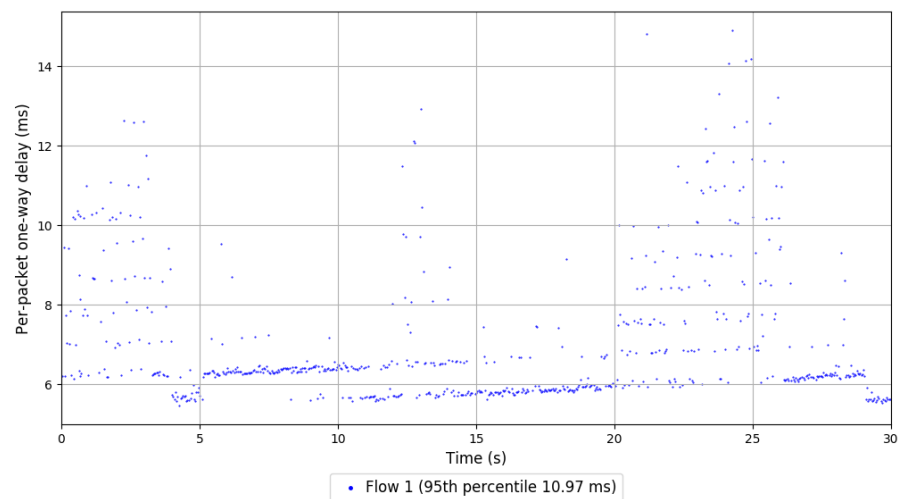
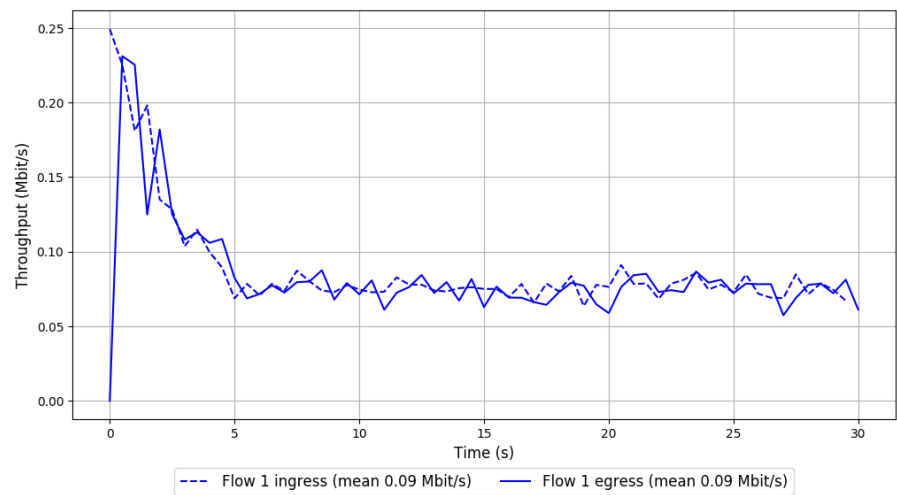
-- Flow 1:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 10.967 ms

Loss rate: 3.84%

Run 10: Report of SCReAM — Data Link

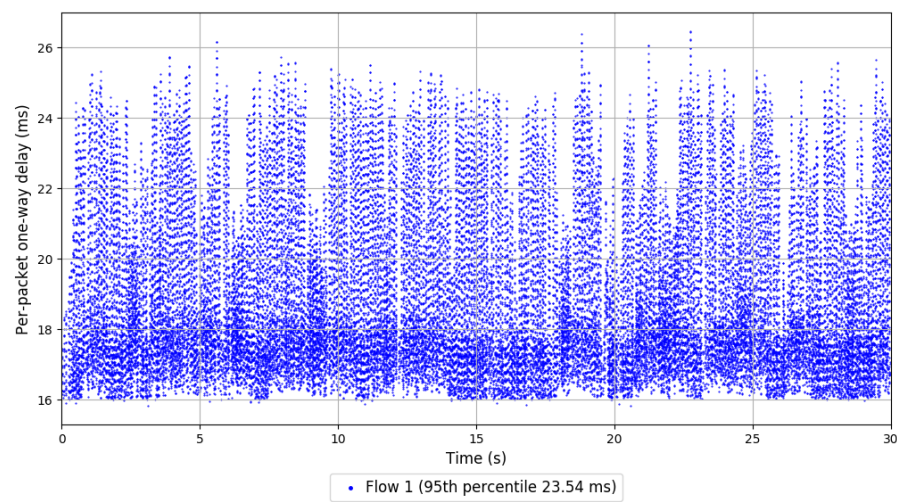
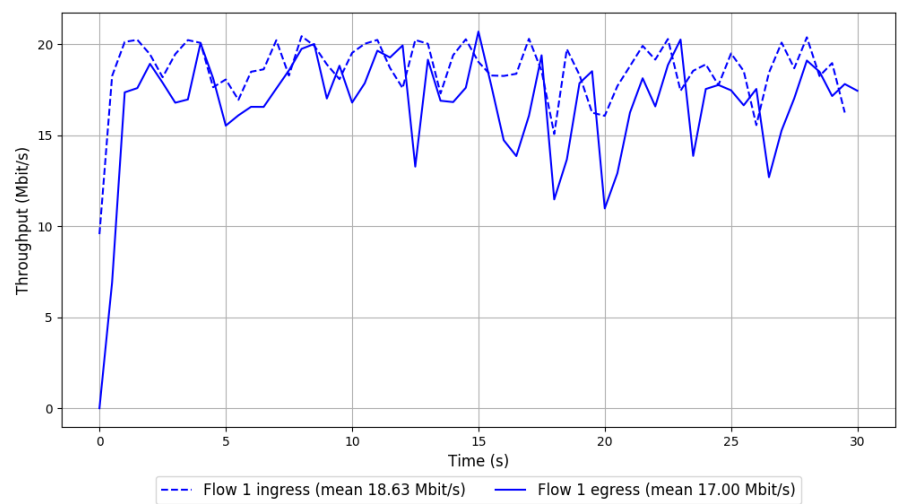


Run 1: Statistics of Sprout

Start at: 2018-05-30 08:38:17
End at: 2018-05-30 08:38:47
Local clock offset: 2.085 ms
Remote clock offset: -7.347 ms

Below is generated by plot.py at 2018-05-30 11:35:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 17.00 Mbit/s
95th percentile per-packet one-way delay: 23.541 ms
Loss rate: 8.75%
-- Flow 1:
Average throughput: 17.00 Mbit/s
95th percentile per-packet one-way delay: 23.541 ms
Loss rate: 8.75%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-05-30 08:56:20

End at: 2018-05-30 08:56:50

Local clock offset: 0.921 ms

Remote clock offset: 1.754 ms

Below is generated by plot.py at 2018-05-30 11:35:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.01 Mbit/s

95th percentile per-packet one-way delay: 26.815 ms

Loss rate: 0.91%

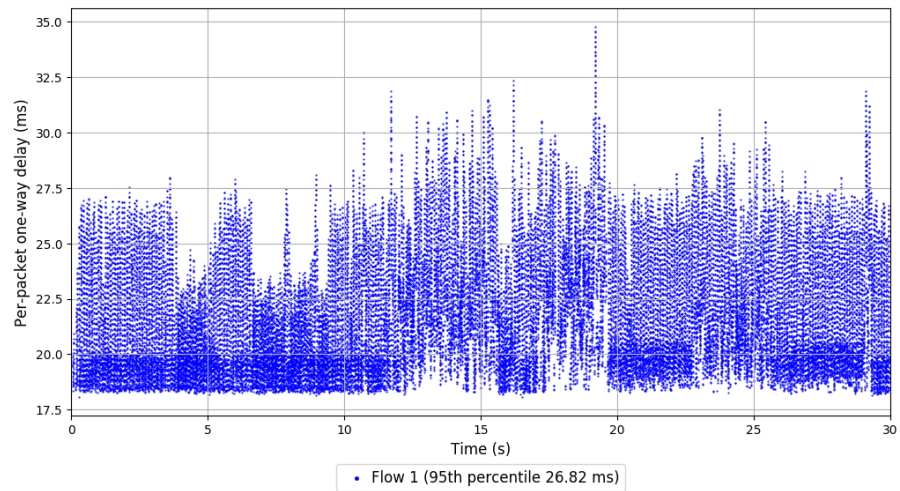
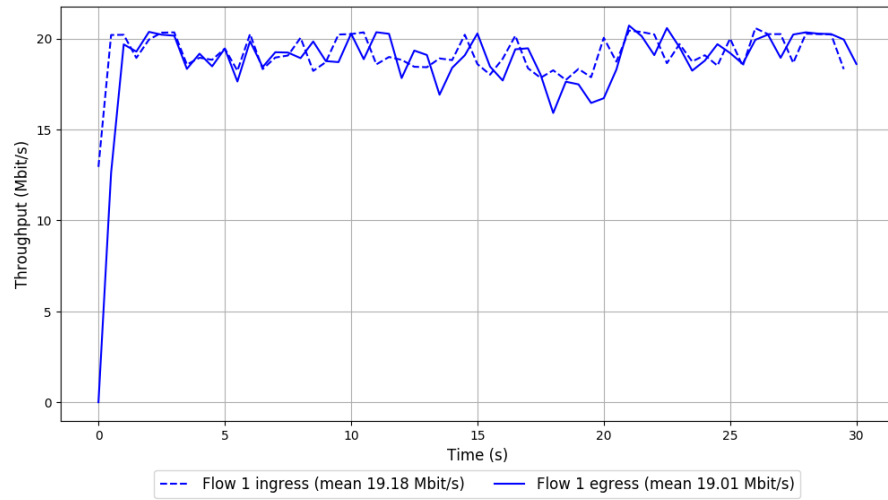
-- Flow 1:

Average throughput: 19.01 Mbit/s

95th percentile per-packet one-way delay: 26.815 ms

Loss rate: 0.91%

Run 2: Report of Sprout — Data Link

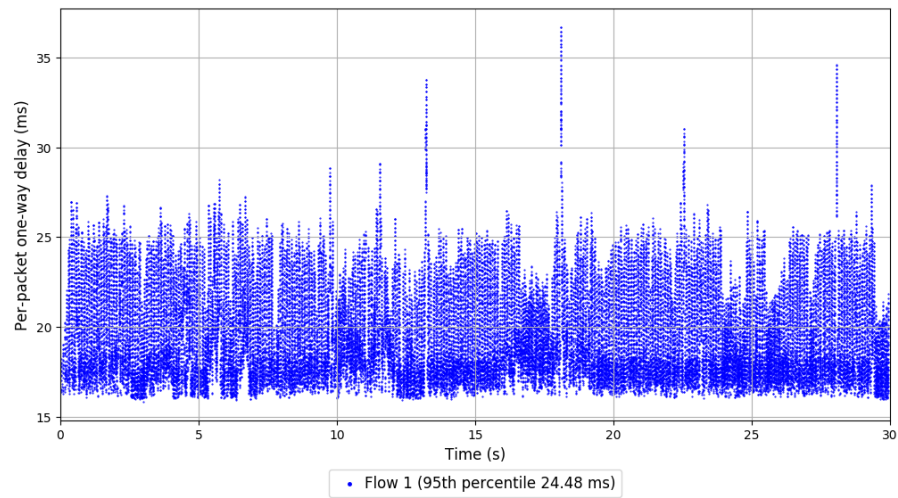
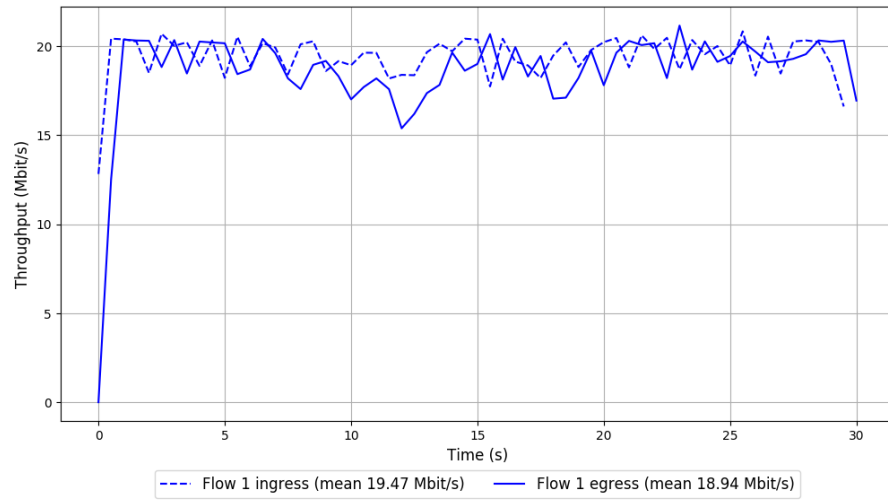


Run 3: Statistics of Sprout

Start at: 2018-05-30 09:14:21
End at: 2018-05-30 09:14:51
Local clock offset: -2.664 ms
Remote clock offset: -0.781 ms

```
# Below is generated by plot.py at 2018-05-30 11:35:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 18.94 Mbit/s
95th percentile per-packet one-way delay: 24.479 ms
Loss rate: 2.71%
-- Flow 1:
Average throughput: 18.94 Mbit/s
95th percentile per-packet one-way delay: 24.479 ms
Loss rate: 2.71%
```

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-05-30 09:32:18

End at: 2018-05-30 09:32:48

Local clock offset: -2.305 ms

Remote clock offset: 8.39 ms

Below is generated by plot.py at 2018-05-30 11:35:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.03 Mbit/s

95th percentile per-packet one-way delay: 36.096 ms

Loss rate: 2.02%

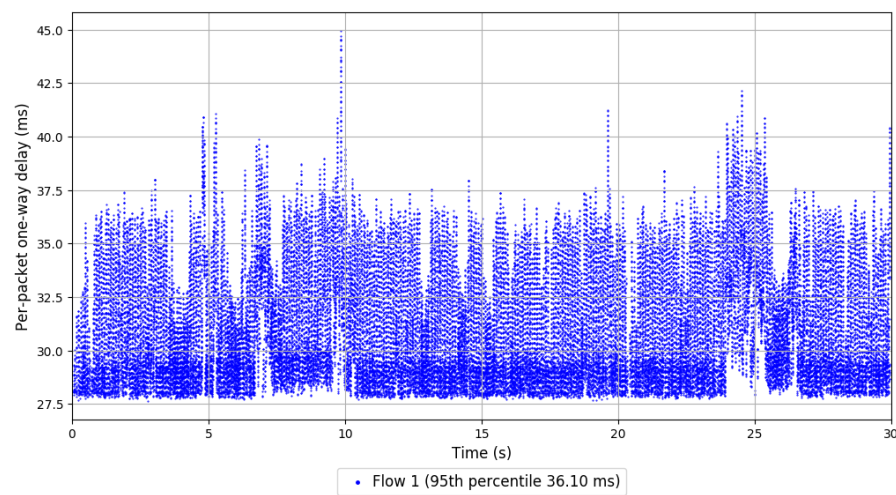
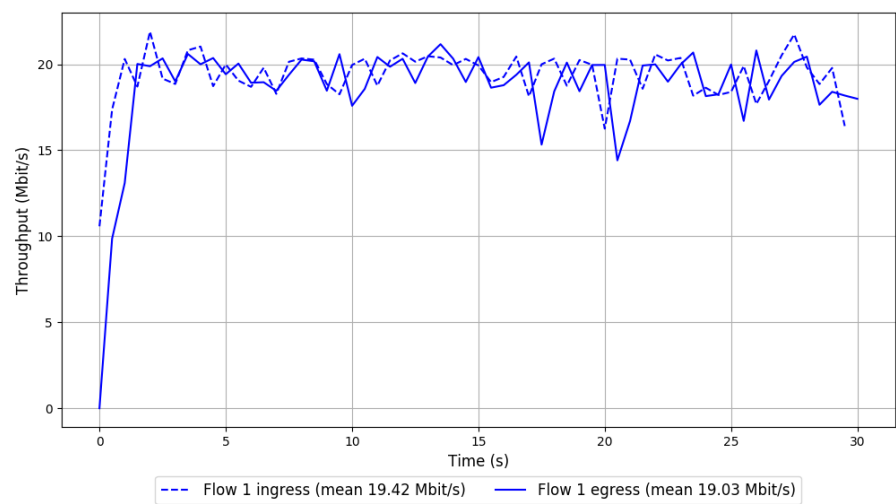
-- Flow 1:

Average throughput: 19.03 Mbit/s

95th percentile per-packet one-way delay: 36.096 ms

Loss rate: 2.02%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-05-30 09:50:33

End at: 2018-05-30 09:51:03

Local clock offset: 0.634 ms

Remote clock offset: 0.082 ms

Below is generated by plot.py at 2018-05-30 11:35:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.56 Mbit/s

95th percentile per-packet one-way delay: 25.645 ms

Loss rate: 14.30%

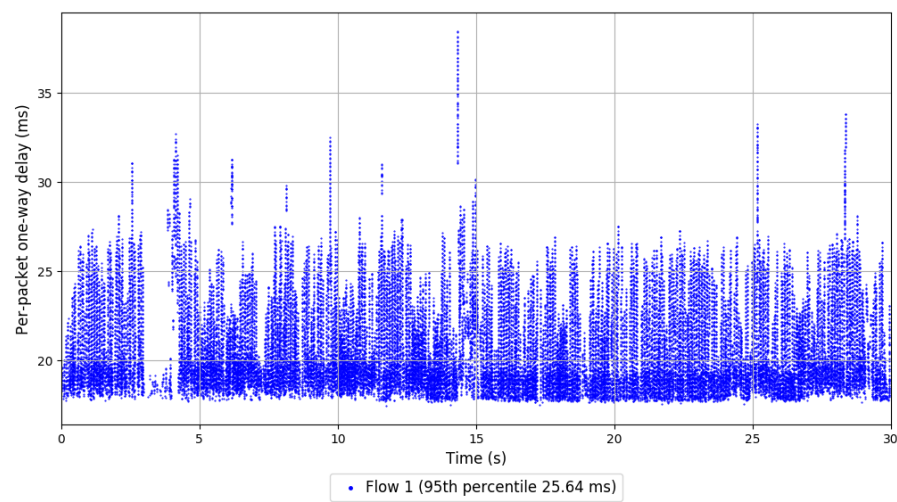
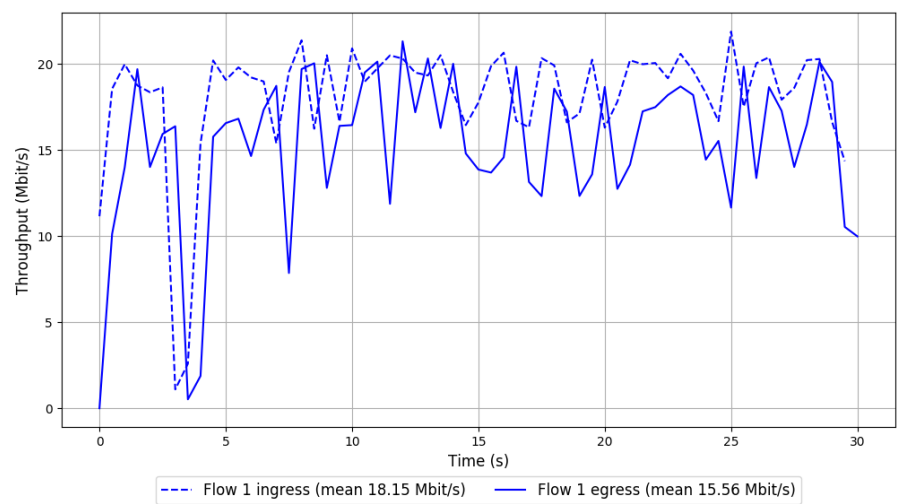
-- Flow 1:

Average throughput: 15.56 Mbit/s

95th percentile per-packet one-way delay: 25.645 ms

Loss rate: 14.30%

Run 5: Report of Sprout — Data Link

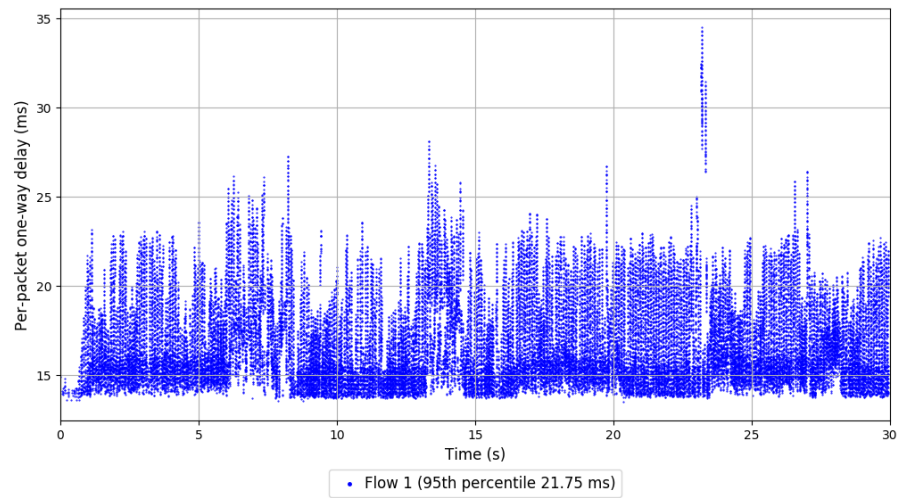
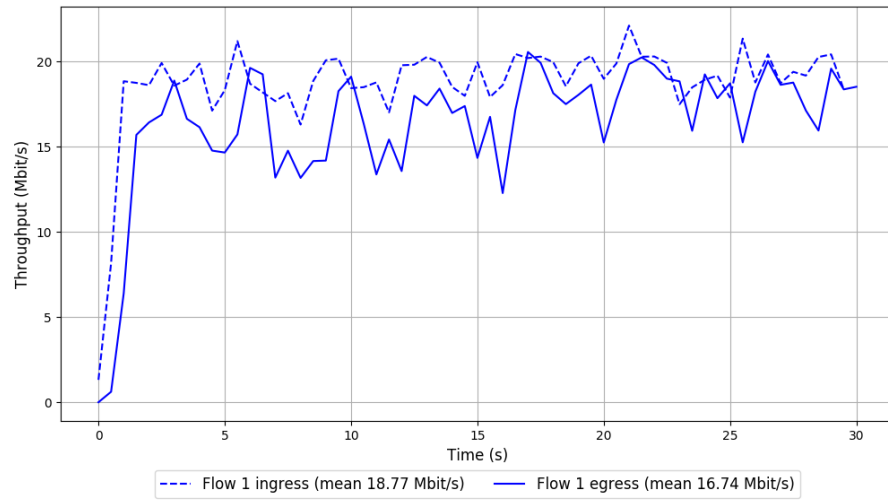


Run 6: Statistics of Sprout

Start at: 2018-05-30 10:08:34
End at: 2018-05-30 10:09:04
Local clock offset: 0.568 ms
Remote clock offset: -4.908 ms

Below is generated by plot.py at 2018-05-30 11:35:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 16.74 Mbit/s
95th percentile per-packet one-way delay: 21.749 ms
Loss rate: 10.82%
-- Flow 1:
Average throughput: 16.74 Mbit/s
95th percentile per-packet one-way delay: 21.749 ms
Loss rate: 10.82%

Run 6: Report of Sprout — Data Link

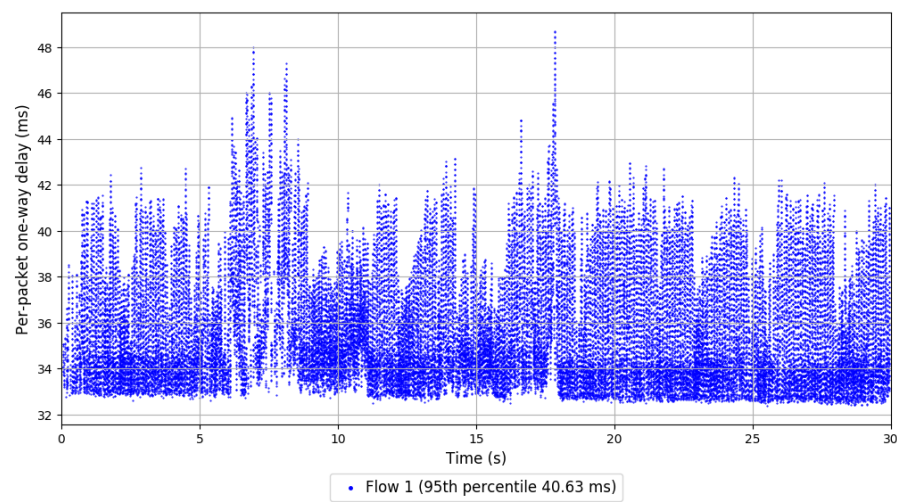
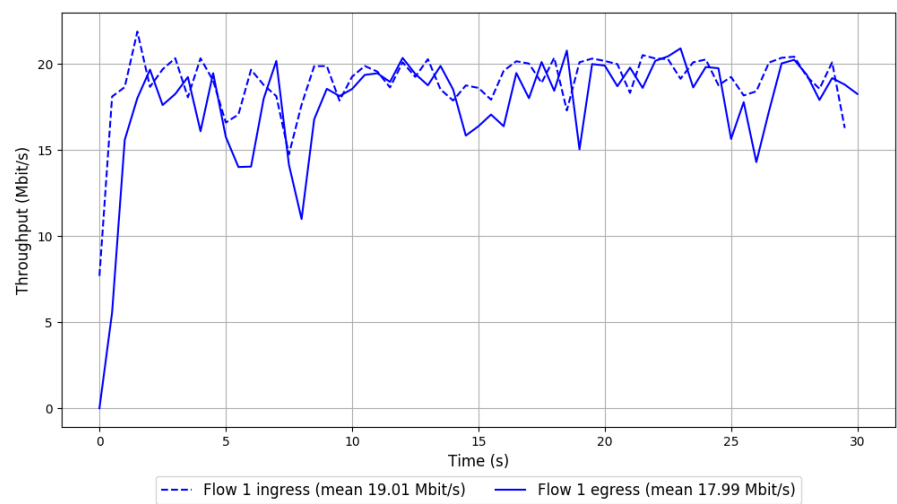


Run 7: Statistics of Sprout

Start at: 2018-05-30 10:26:18
End at: 2018-05-30 10:26:48
Local clock offset: -3.207 ms
Remote clock offset: 10.307 ms

Below is generated by plot.py at 2018-05-30 11:35:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 17.99 Mbit/s
95th percentile per-packet one-way delay: 40.631 ms
Loss rate: 5.32%
-- Flow 1:
Average throughput: 17.99 Mbit/s
95th percentile per-packet one-way delay: 40.631 ms
Loss rate: 5.32%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-05-30 10:44:06

End at: 2018-05-30 10:44:36

Local clock offset: 0.067 ms

Remote clock offset: 9.788 ms

Below is generated by plot.py at 2018-05-30 11:35:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.84 Mbit/s

95th percentile per-packet one-way delay: 32.362 ms

Loss rate: 5.74%

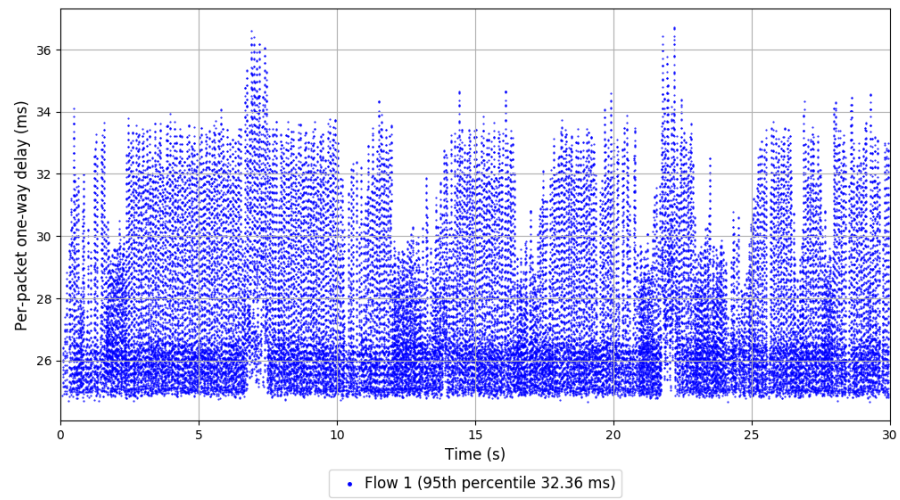
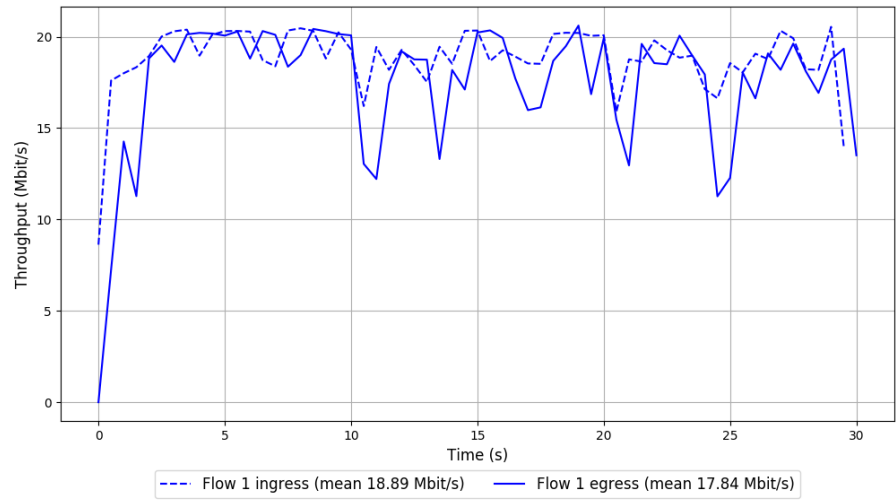
-- Flow 1:

Average throughput: 17.84 Mbit/s

95th percentile per-packet one-way delay: 32.362 ms

Loss rate: 5.74%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-05-30 11:02:05

End at: 2018-05-30 11:02:35

Local clock offset: 2.366 ms

Remote clock offset: 4.467 ms

Below is generated by plot.py at 2018-05-30 11:35:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.21 Mbit/s

95th percentile per-packet one-way delay: 24.641 ms

Loss rate: 1.39%

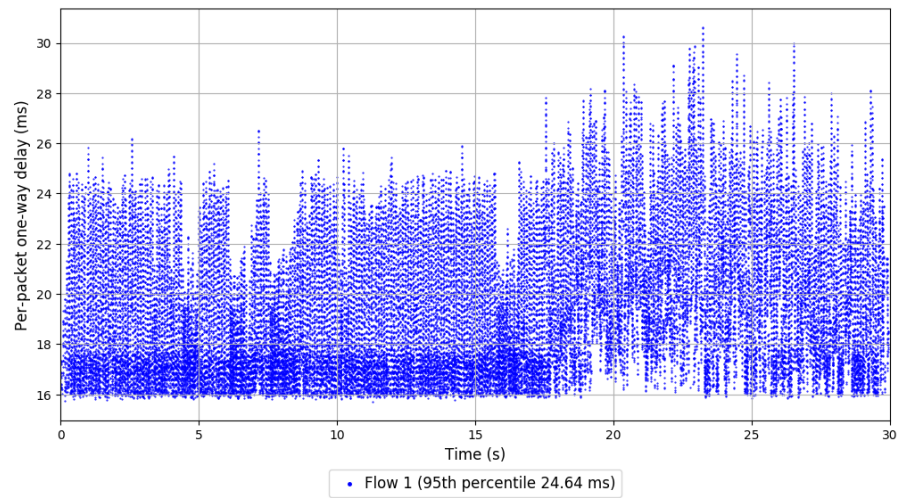
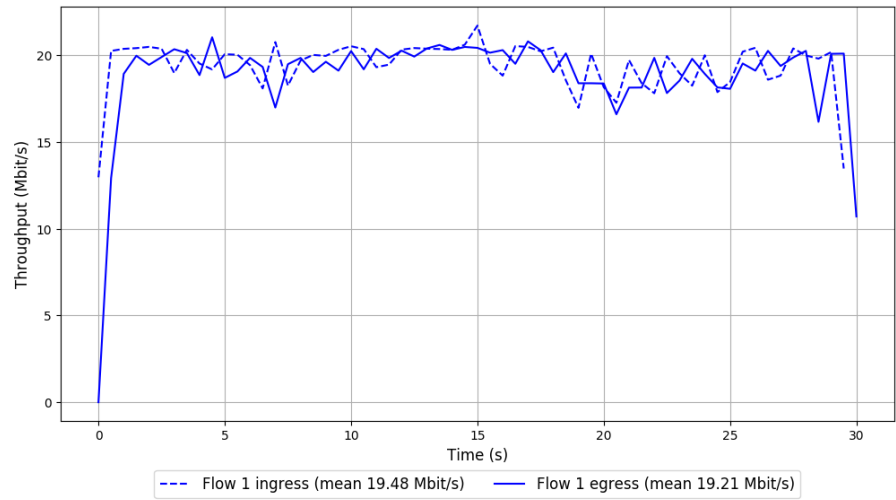
-- Flow 1:

Average throughput: 19.21 Mbit/s

95th percentile per-packet one-way delay: 24.641 ms

Loss rate: 1.39%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-05-30 11:20:11

End at: 2018-05-30 11:20:41

Local clock offset: 1.195 ms

Remote clock offset: 1.252 ms

Below is generated by plot.py at 2018-05-30 11:35:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.38 Mbit/s

95th percentile per-packet one-way delay: 24.236 ms

Loss rate: 5.48%

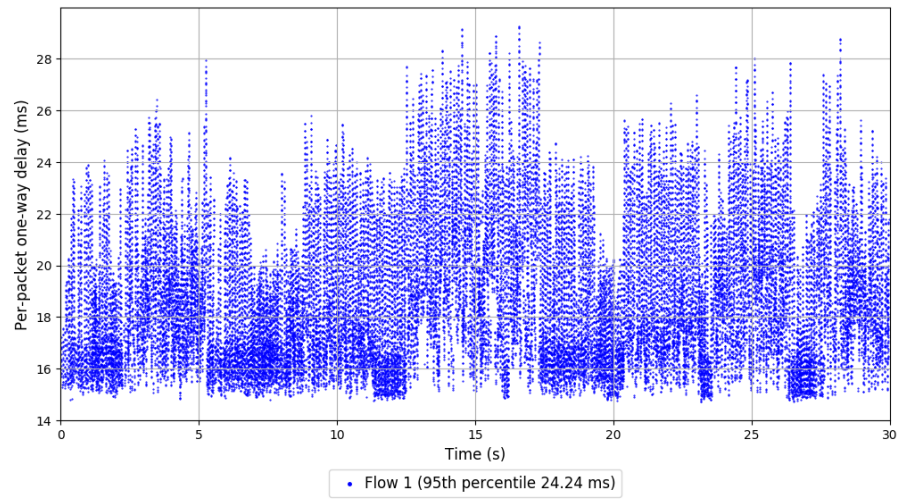
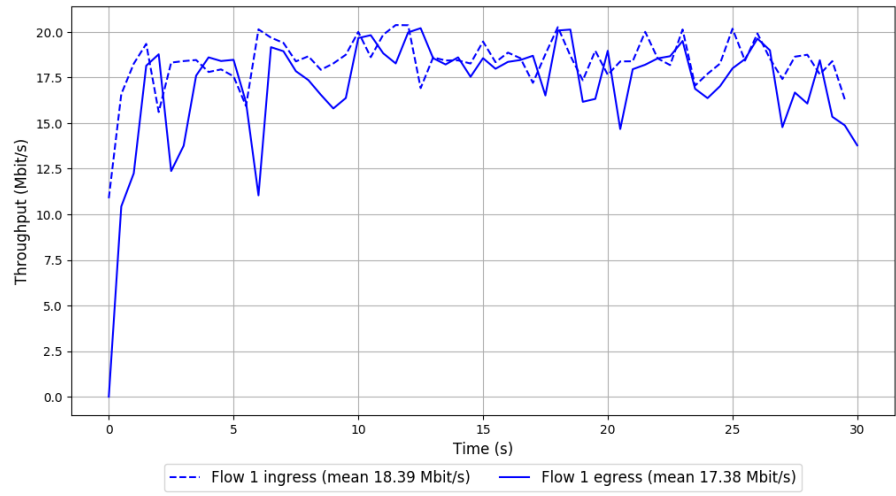
-- Flow 1:

Average throughput: 17.38 Mbit/s

95th percentile per-packet one-way delay: 24.236 ms

Loss rate: 5.48%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-05-30 08:42:48

End at: 2018-05-30 08:43:18

Local clock offset: 1.707 ms

Remote clock offset: 0.229 ms

Below is generated by plot.py at 2018-05-30 11:36:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.34 Mbit/s

95th percentile per-packet one-way delay: 25.278 ms

Loss rate: 14.87%

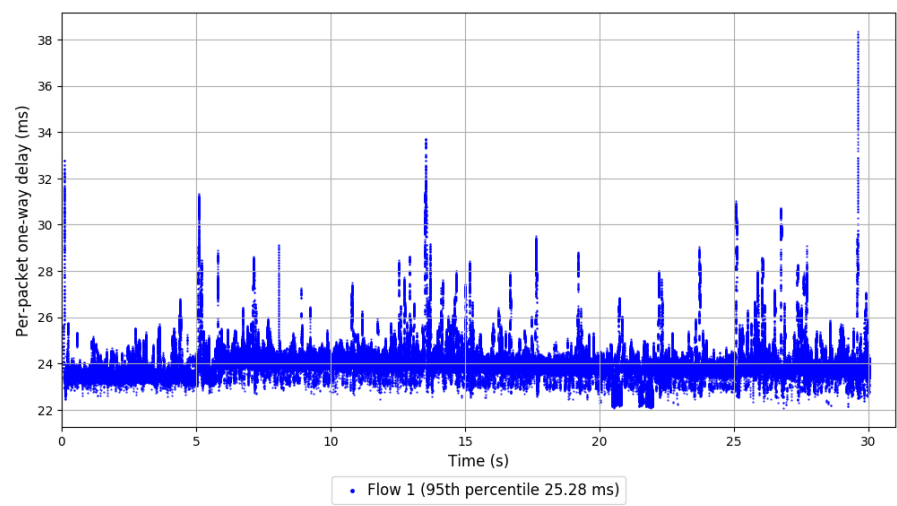
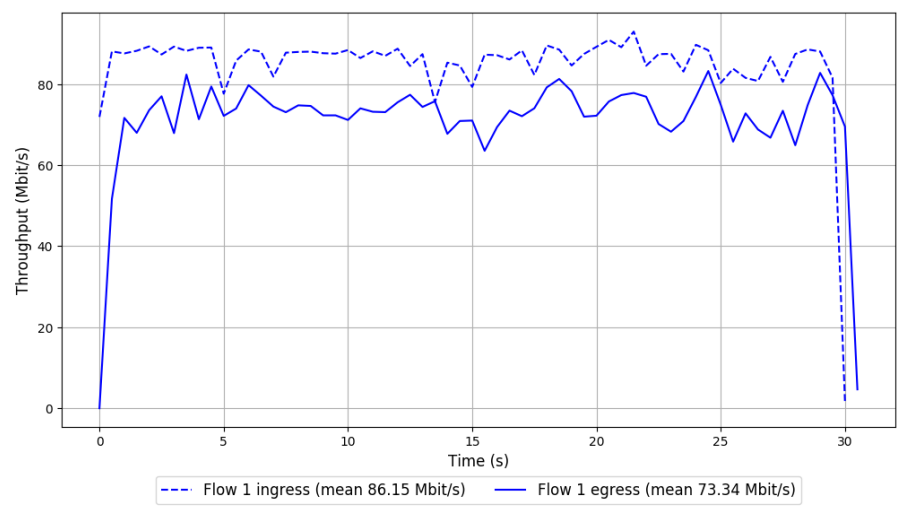
-- Flow 1:

Average throughput: 73.34 Mbit/s

95th percentile per-packet one-way delay: 25.278 ms

Loss rate: 14.87%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-05-30 09:00:51

End at: 2018-05-30 09:01:21

Local clock offset: -0.543 ms

Remote clock offset: 0.457 ms

Below is generated by plot.py at 2018-05-30 11:36:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.27 Mbit/s

95th percentile per-packet one-way delay: 19.345 ms

Loss rate: 12.57%

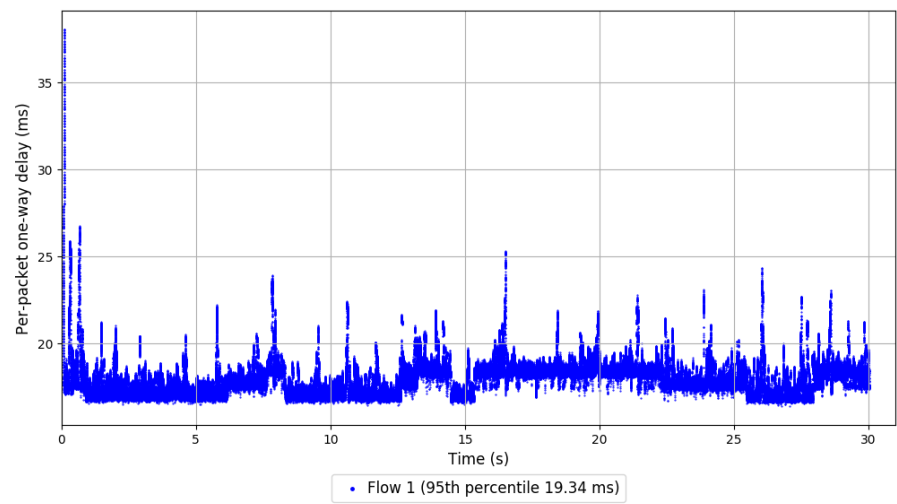
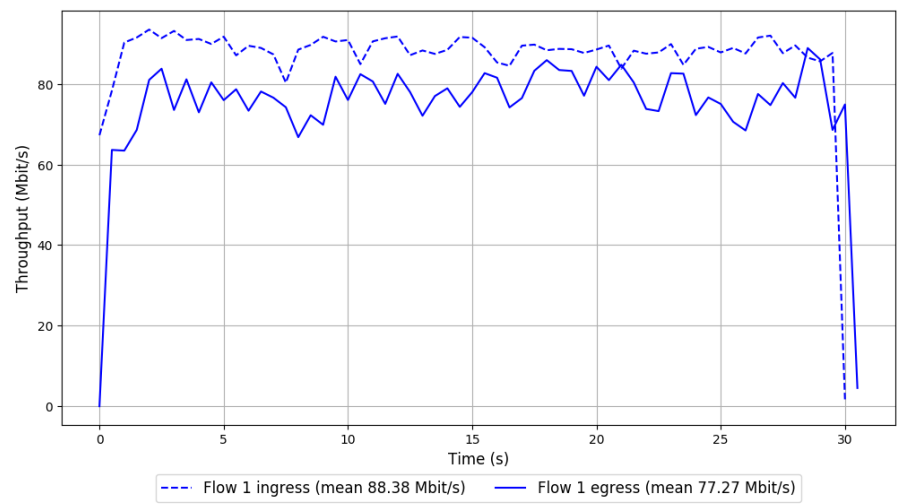
-- Flow 1:

Average throughput: 77.27 Mbit/s

95th percentile per-packet one-way delay: 19.345 ms

Loss rate: 12.57%

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

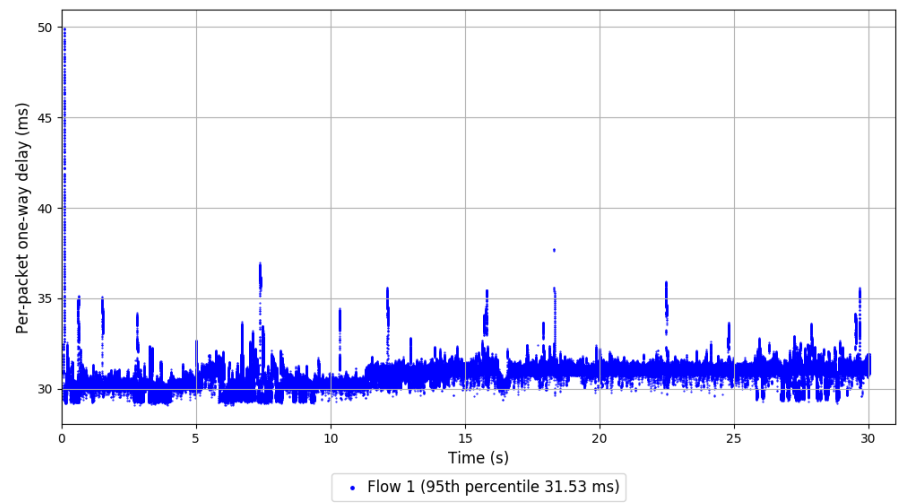
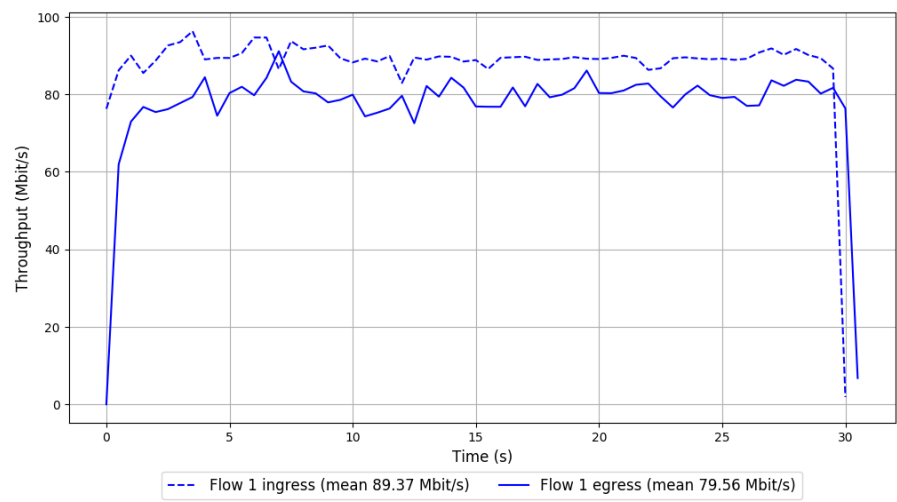


Run 3: Statistics of TaoVA-100x

Start at: 2018-05-30 09:18:54
End at: 2018-05-30 09:19:24
Local clock offset: -2.817 ms
Remote clock offset: 10.556 ms

Below is generated by plot.py at 2018-05-30 11:36:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.56 Mbit/s
95th percentile per-packet one-way delay: 31.526 ms
Loss rate: 10.97%
-- Flow 1:
Average throughput: 79.56 Mbit/s
95th percentile per-packet one-way delay: 31.526 ms
Loss rate: 10.97%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-05-30 09:36:54

End at: 2018-05-30 09:37:24

Local clock offset: -3.21 ms

Remote clock offset: 10.128 ms

Below is generated by plot.py at 2018-05-30 11:36:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.86 Mbit/s

95th percentile per-packet one-way delay: 34.042 ms

Loss rate: 9.13%

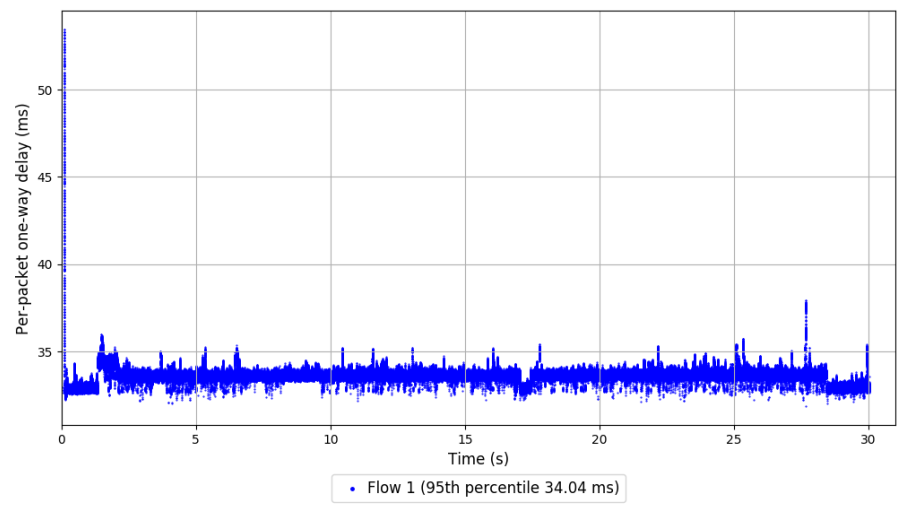
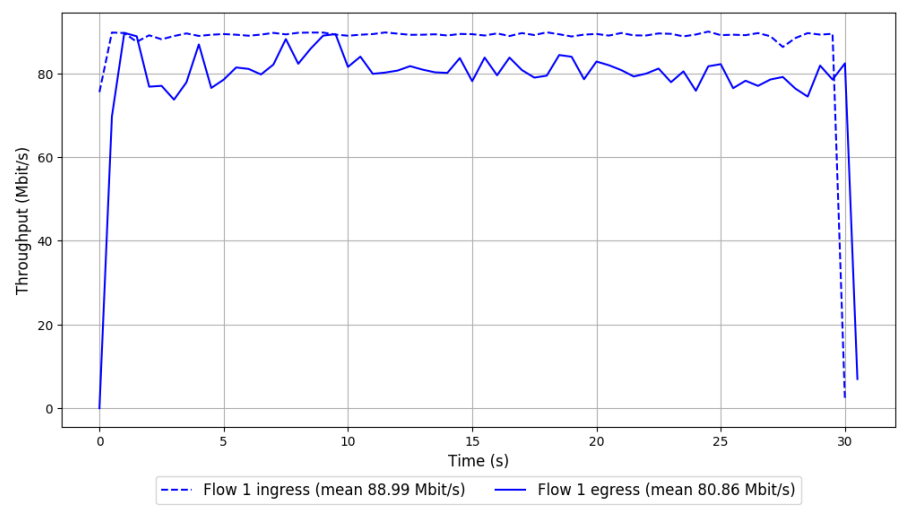
-- Flow 1:

Average throughput: 80.86 Mbit/s

95th percentile per-packet one-way delay: 34.042 ms

Loss rate: 9.13%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-30 09:55:02

End at: 2018-05-30 09:55:32

Local clock offset: -1.06 ms

Remote clock offset: -1.211 ms

Below is generated by plot.py at 2018-05-30 11:36:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.76 Mbit/s

95th percentile per-packet one-way delay: 22.751 ms

Loss rate: 15.34%

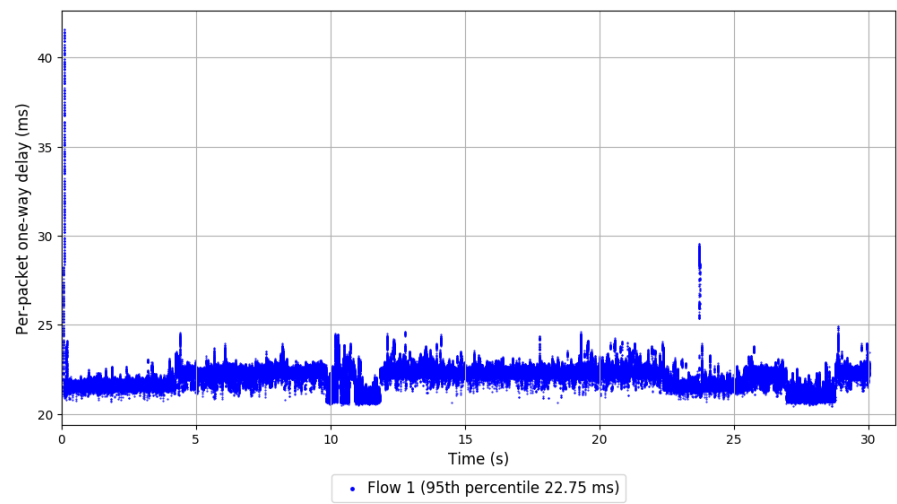
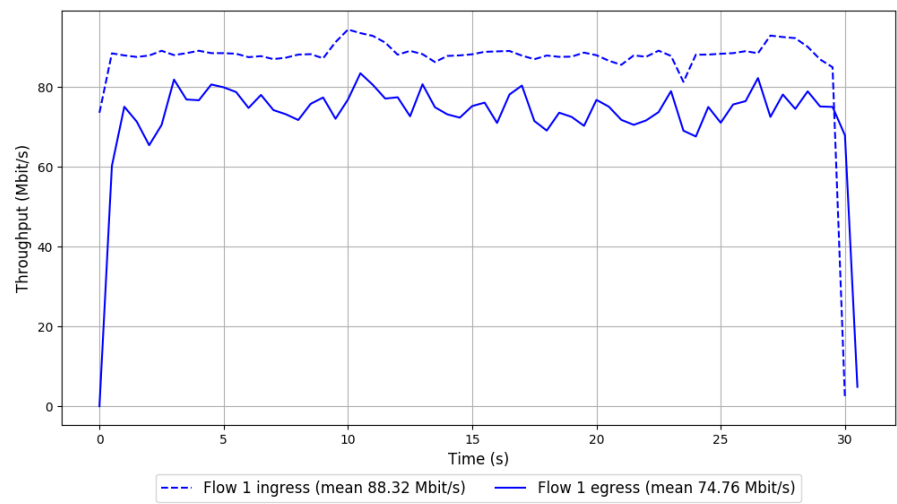
-- Flow 1:

Average throughput: 74.76 Mbit/s

95th percentile per-packet one-way delay: 22.751 ms

Loss rate: 15.34%

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

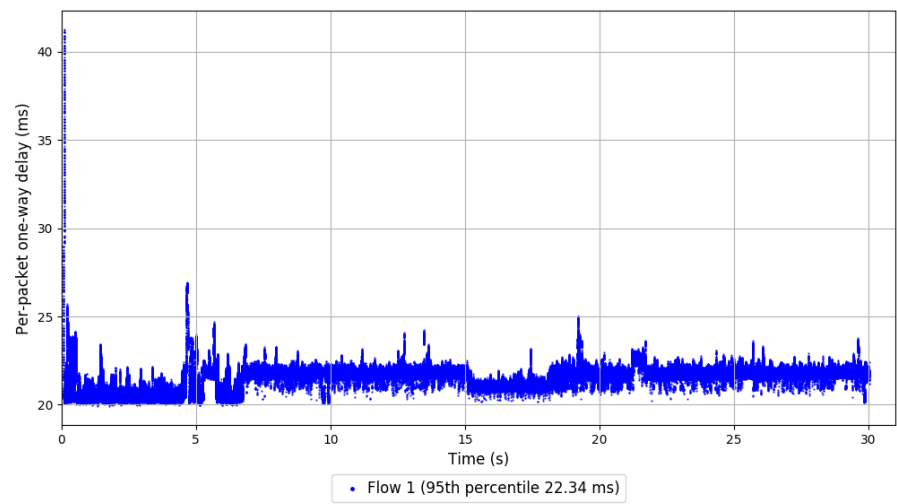
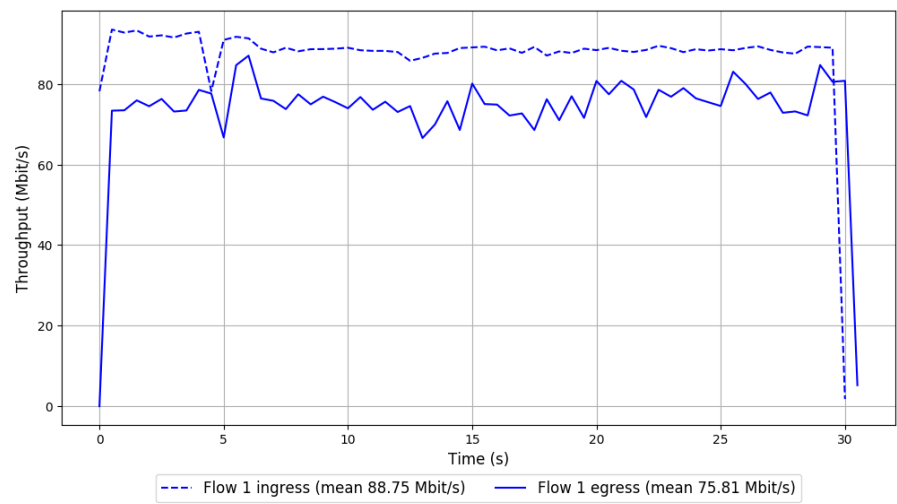


Run 6: Statistics of TaoVA-100x

Start at: 2018-05-30 10:13:02
End at: 2018-05-30 10:13:32
Local clock offset: -2.406 ms
Remote clock offset: -3.822 ms

Below is generated by plot.py at 2018-05-30 11:37:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.81 Mbit/s
95th percentile per-packet one-way delay: 22.335 ms
Loss rate: 14.58%
-- Flow 1:
Average throughput: 75.81 Mbit/s
95th percentile per-packet one-way delay: 22.335 ms
Loss rate: 14.58%

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

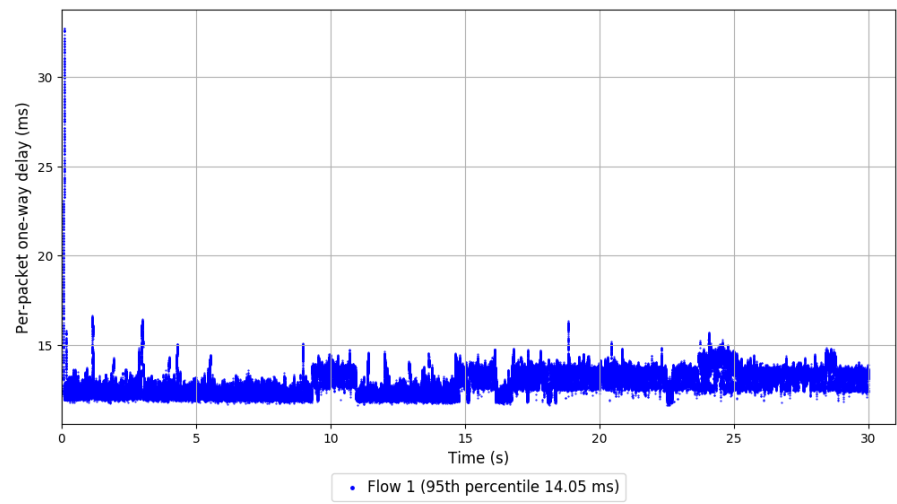
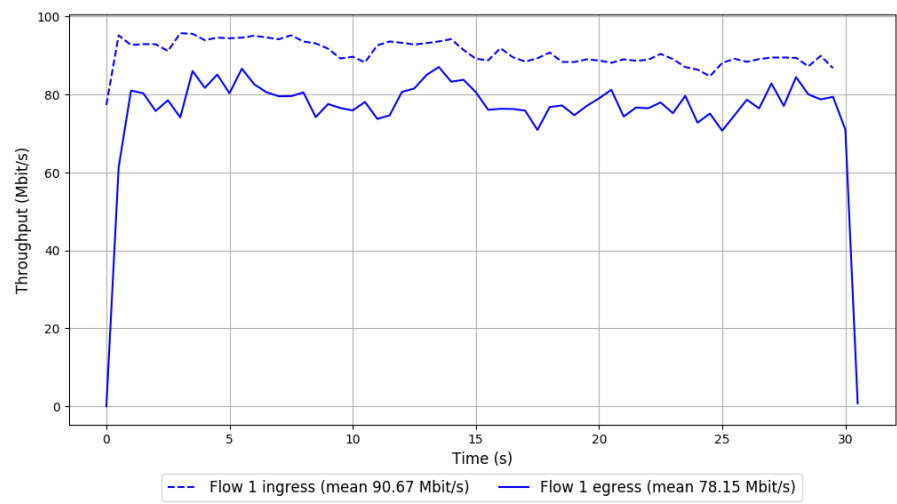


Run 7: Statistics of TaoVA-100x

Start at: 2018-05-30 10:30:49
End at: 2018-05-30 10:31:19
Local clock offset: 0.153 ms
Remote clock offset: -5.362 ms

Below is generated by plot.py at 2018-05-30 11:37:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.15 Mbit/s
95th percentile per-packet one-way delay: 14.049 ms
Loss rate: 13.81%
-- Flow 1:
Average throughput: 78.15 Mbit/s
95th percentile per-packet one-way delay: 14.049 ms
Loss rate: 13.81%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-05-30 10:48:38

End at: 2018-05-30 10:49:08

Local clock offset: -1.886 ms

Remote clock offset: 8.763 ms

Below is generated by plot.py at 2018-05-30 11:37:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.93 Mbit/s

95th percentile per-packet one-way delay: 28.081 ms

Loss rate: 13.08%

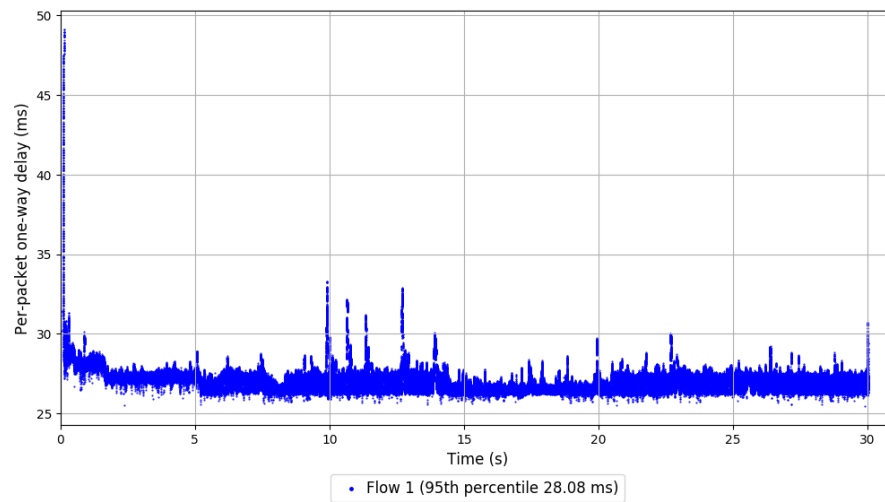
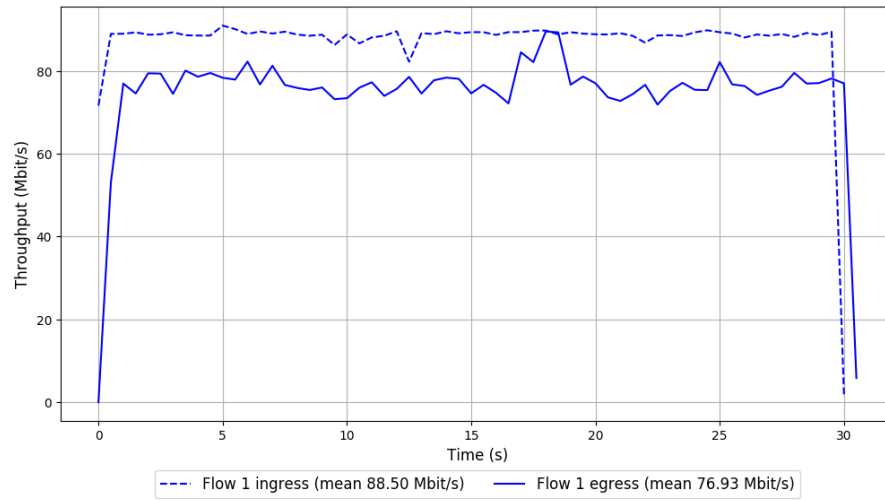
-- Flow 1:

Average throughput: 76.93 Mbit/s

95th percentile per-packet one-way delay: 28.081 ms

Loss rate: 13.08%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-05-30 11:06:48

End at: 2018-05-30 11:07:18

Local clock offset: -0.69 ms

Remote clock offset: 9.073 ms

Below is generated by plot.py at 2018-05-30 11:38:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.62 Mbit/s

95th percentile per-packet one-way delay: 27.448 ms

Loss rate: 12.65%

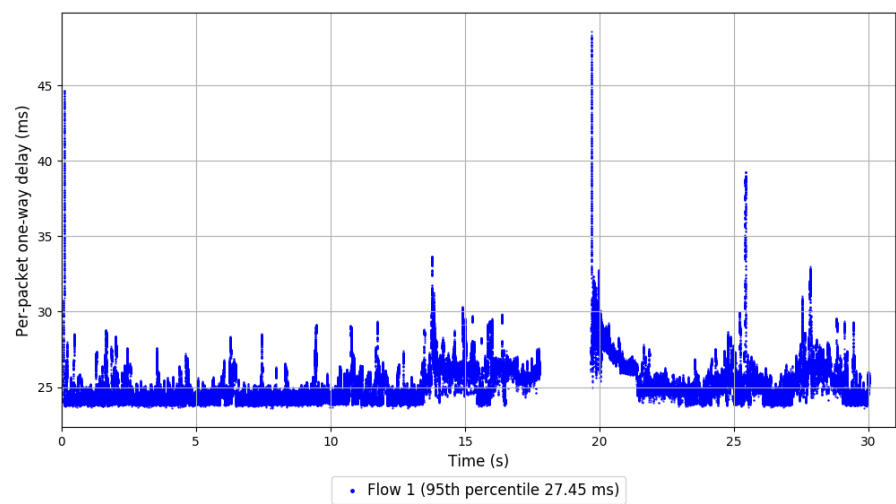
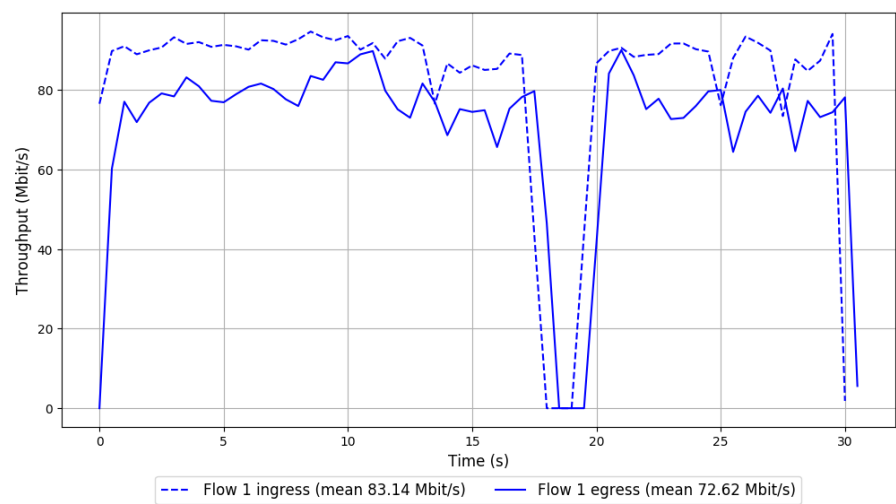
-- Flow 1:

Average throughput: 72.62 Mbit/s

95th percentile per-packet one-way delay: 27.448 ms

Loss rate: 12.65%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-30 11:24:44

End at: 2018-05-30 11:25:14

Local clock offset: 2.006 ms

Remote clock offset: 11.403 ms

Below is generated by plot.py at 2018-05-30 11:38:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.91 Mbit/s

95th percentile per-packet one-way delay: 25.772 ms

Loss rate: 14.73%

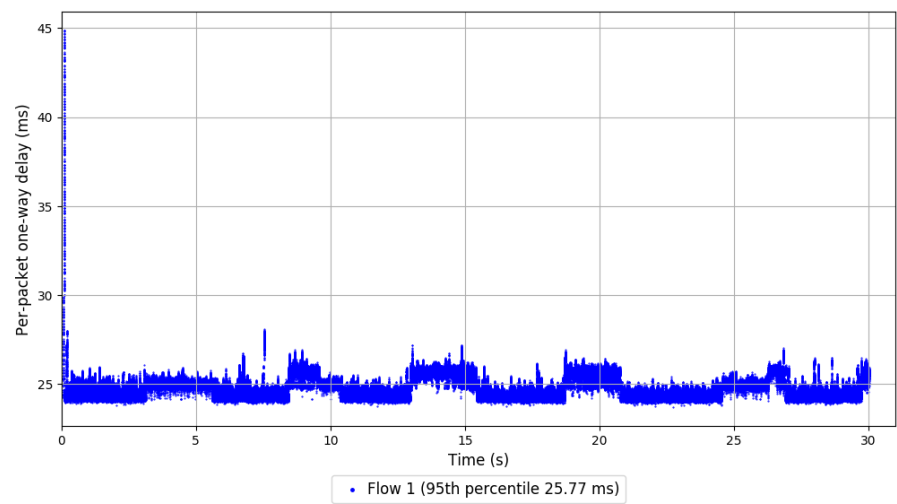
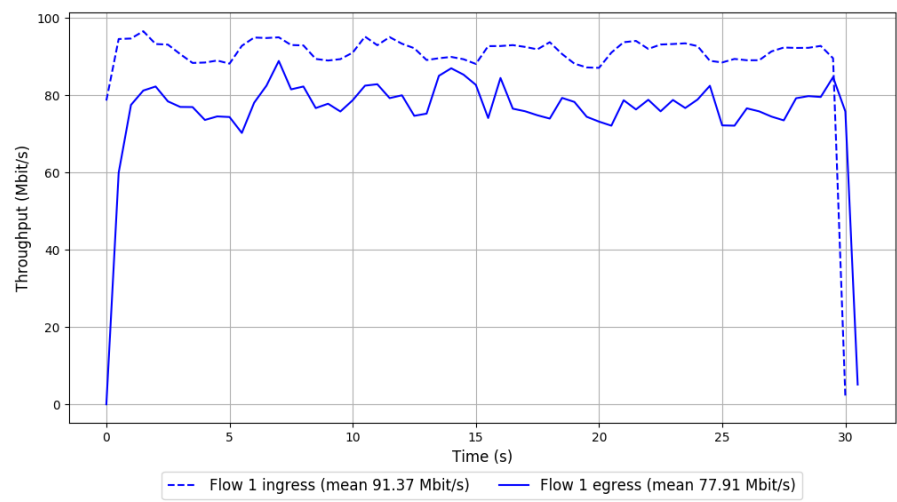
-- Flow 1:

Average throughput: 77.91 Mbit/s

95th percentile per-packet one-way delay: 25.772 ms

Loss rate: 14.73%

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

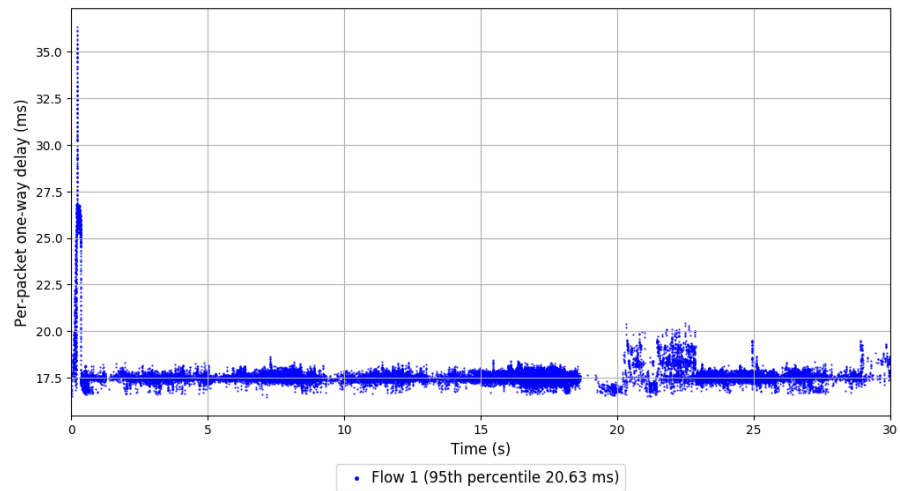
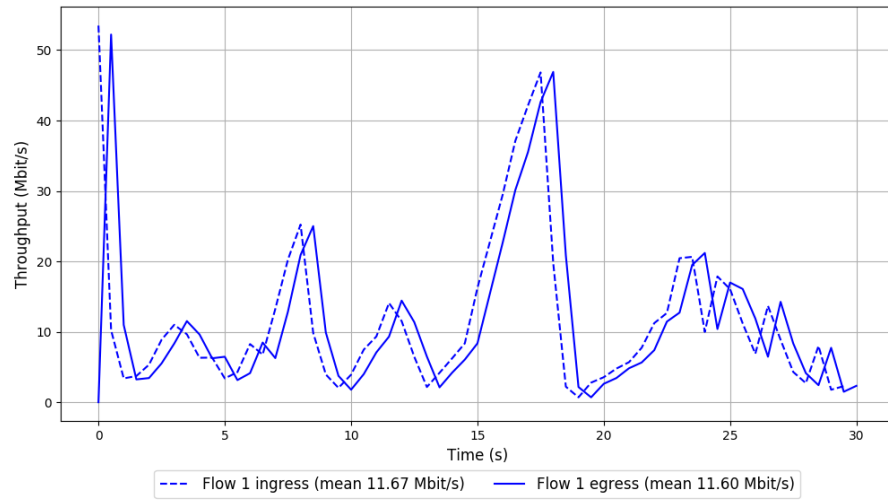


Run 1: Statistics of TCP Vegas

Start at: 2018-05-30 08:36:05
End at: 2018-05-30 08:36:35
Local clock offset: 1.504 ms
Remote clock offset: -7.186 ms

Below is generated by plot.py at 2018-05-30 11:38:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.60 Mbit/s
95th percentile per-packet one-way delay: 20.627 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 11.60 Mbit/s
95th percentile per-packet one-way delay: 20.627 ms
Loss rate: 0.61%

Run 1: Report of TCP Vegas — Data Link

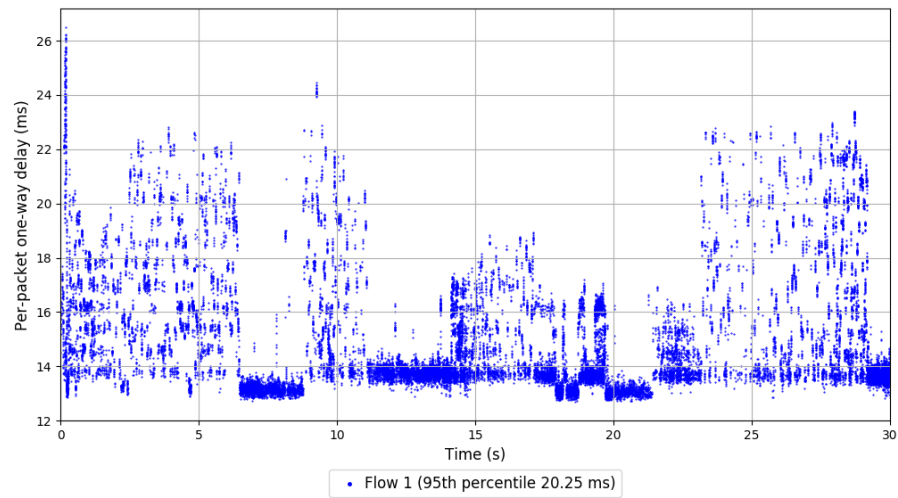
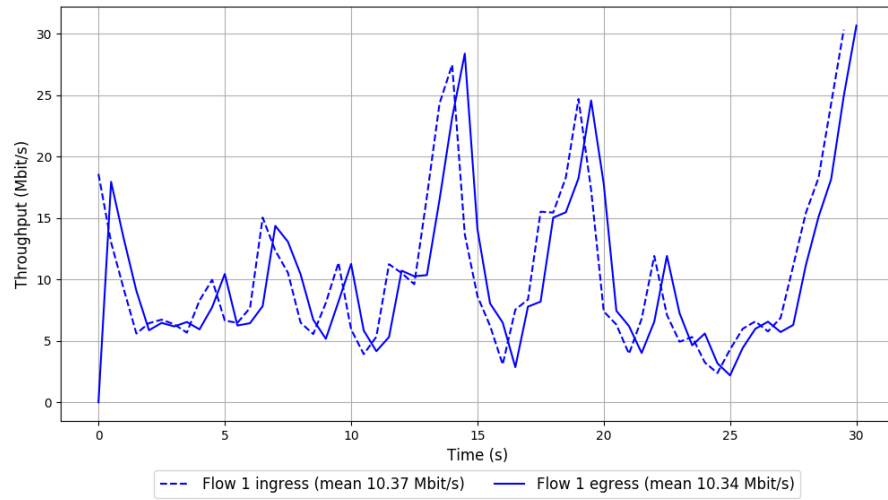


Run 2: Statistics of TCP Vegas

Start at: 2018-05-30 08:54:10
End at: 2018-05-30 08:54:40
Local clock offset: 2.179 ms
Remote clock offset: -3.032 ms

Below is generated by plot.py at 2018-05-30 11:38:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 10.34 Mbit/s
95th percentile per-packet one-way delay: 20.246 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 10.34 Mbit/s
95th percentile per-packet one-way delay: 20.246 ms
Loss rate: 0.29%

Run 2: Report of TCP Vegas — Data Link

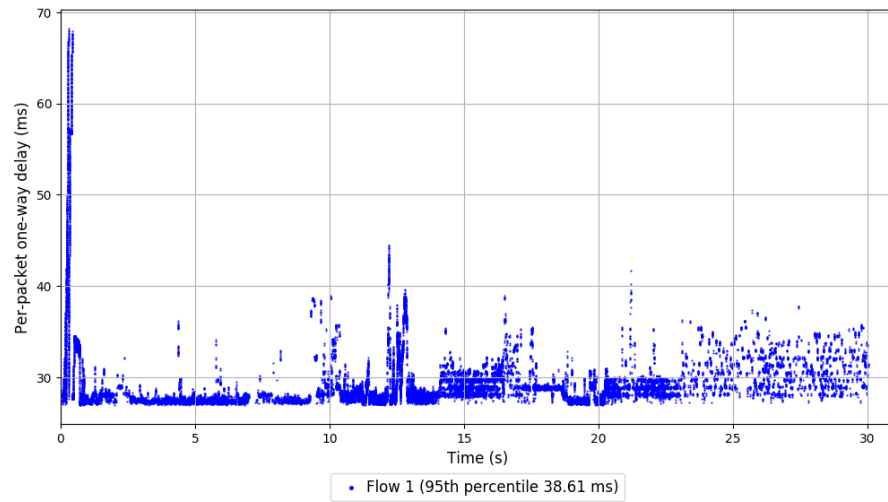
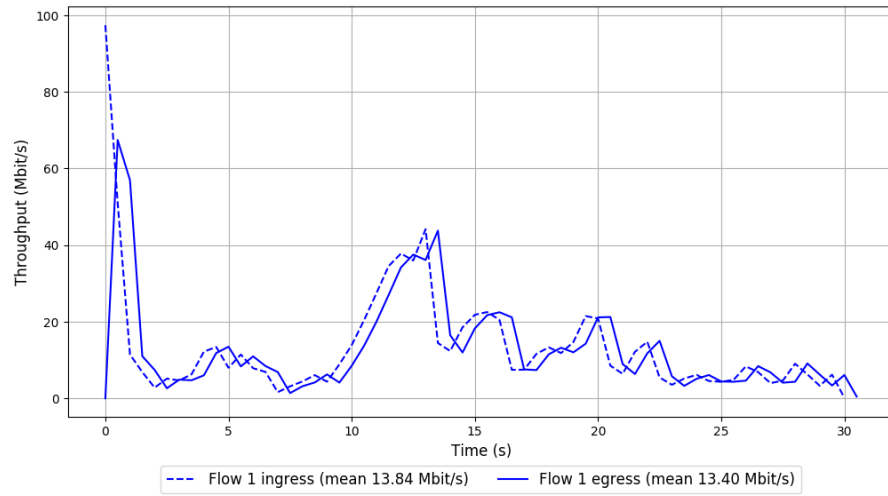


Run 3: Statistics of TCP Vegas

Start at: 2018-05-30 09:12:11
End at: 2018-05-30 09:12:41
Local clock offset: -1.898 ms
Remote clock offset: 10.814 ms

Below is generated by plot.py at 2018-05-30 11:38:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.40 Mbit/s
95th percentile per-packet one-way delay: 38.606 ms
Loss rate: 3.11%
-- Flow 1:
Average throughput: 13.40 Mbit/s
95th percentile per-packet one-way delay: 38.606 ms
Loss rate: 3.11%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-05-30 09:30:09

End at: 2018-05-30 09:30:39

Local clock offset: -3.29 ms

Remote clock offset: 2.154 ms

Below is generated by plot.py at 2018-05-30 11:38:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.36 Mbit/s

95th percentile per-packet one-way delay: 25.236 ms

Loss rate: 1.43%

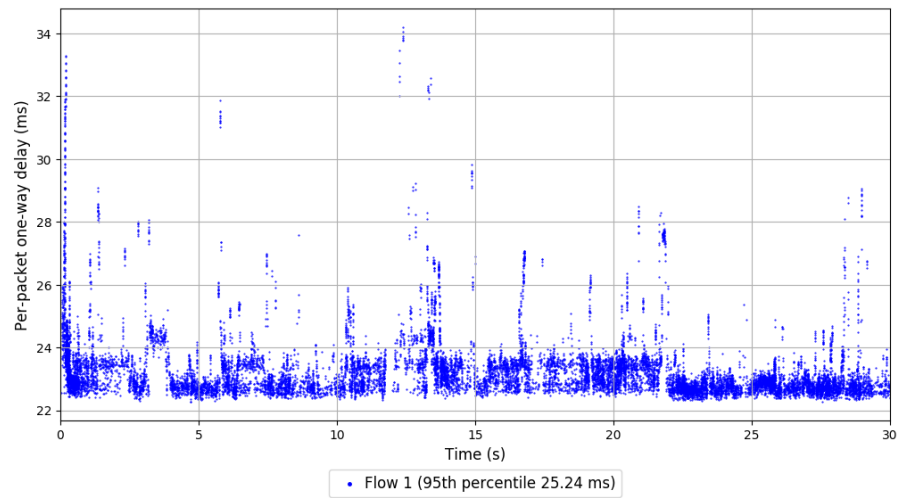
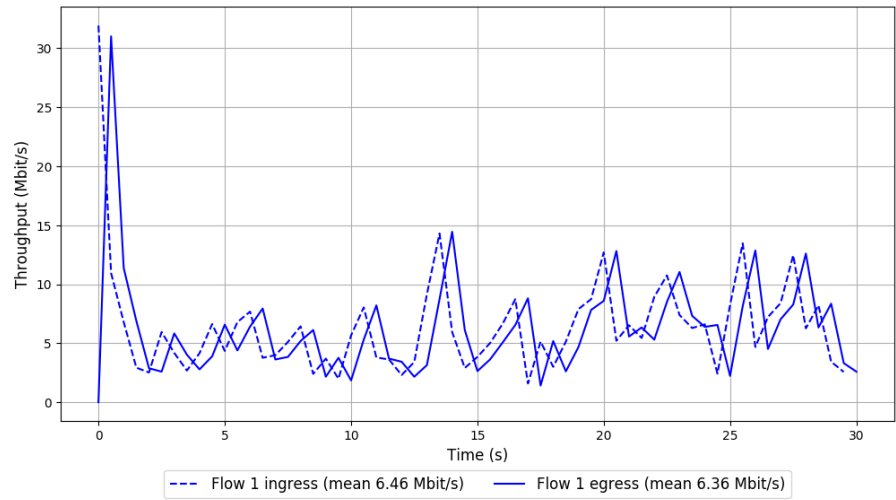
-- Flow 1:

Average throughput: 6.36 Mbit/s

95th percentile per-packet one-way delay: 25.236 ms

Loss rate: 1.43%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-05-30 09:48:20

End at: 2018-05-30 09:48:50

Local clock offset: -2.438 ms

Remote clock offset: 3.437 ms

Below is generated by plot.py at 2018-05-30 11:38:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 27.092 ms

Loss rate: 1.32%

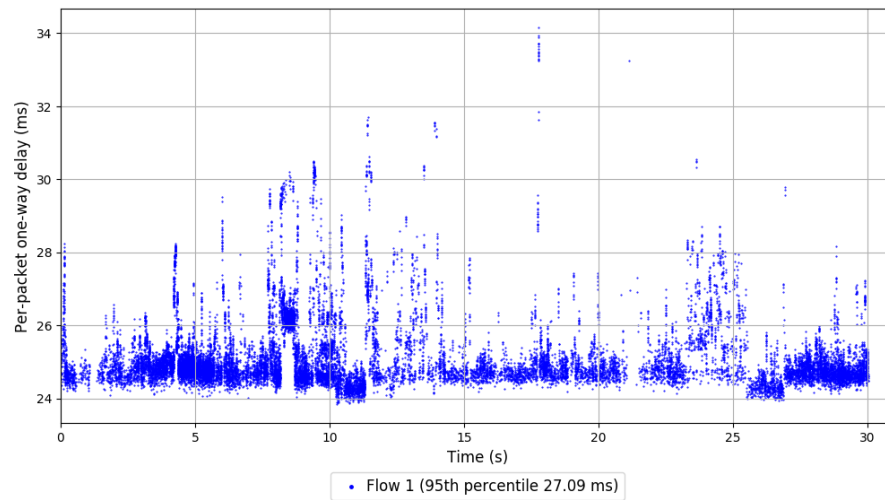
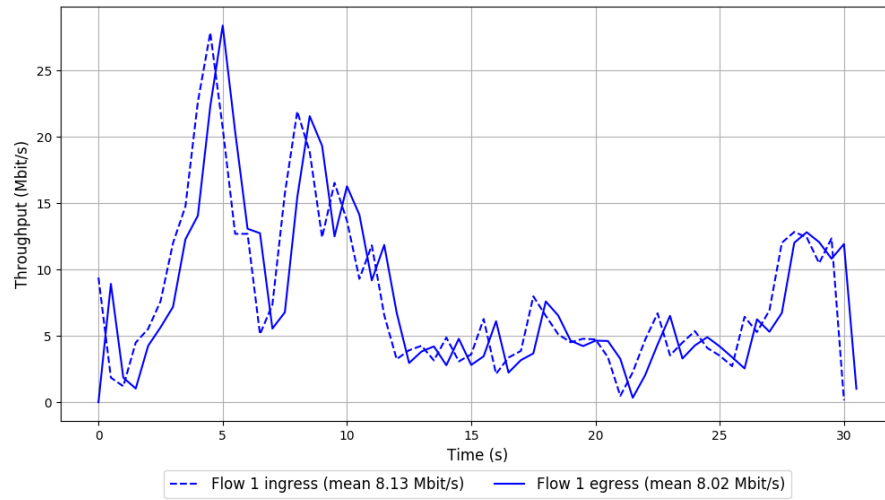
-- Flow 1:

Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 27.092 ms

Loss rate: 1.32%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-05-30 10:06:19

End at: 2018-05-30 10:06:49

Local clock offset: -0.653 ms

Remote clock offset: -4.13 ms

Below is generated by plot.py at 2018-05-30 11:38:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.60 Mbit/s

95th percentile per-packet one-way delay: 17.707 ms

Loss rate: 3.84%

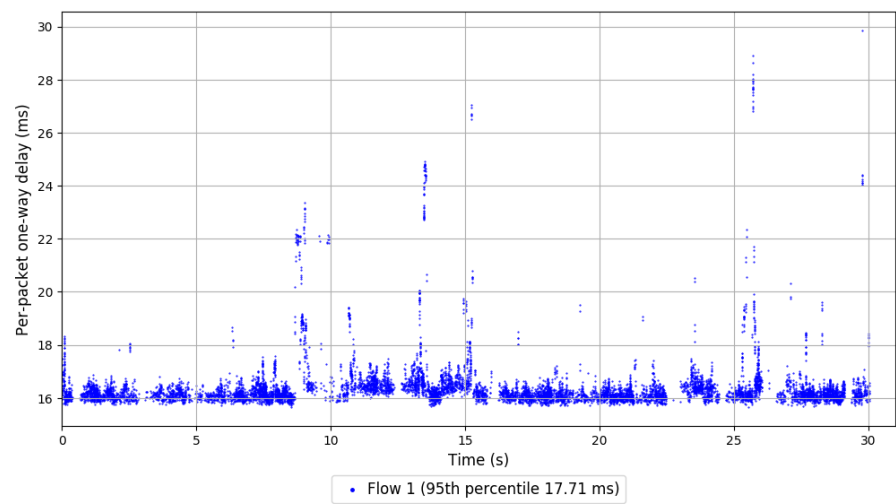
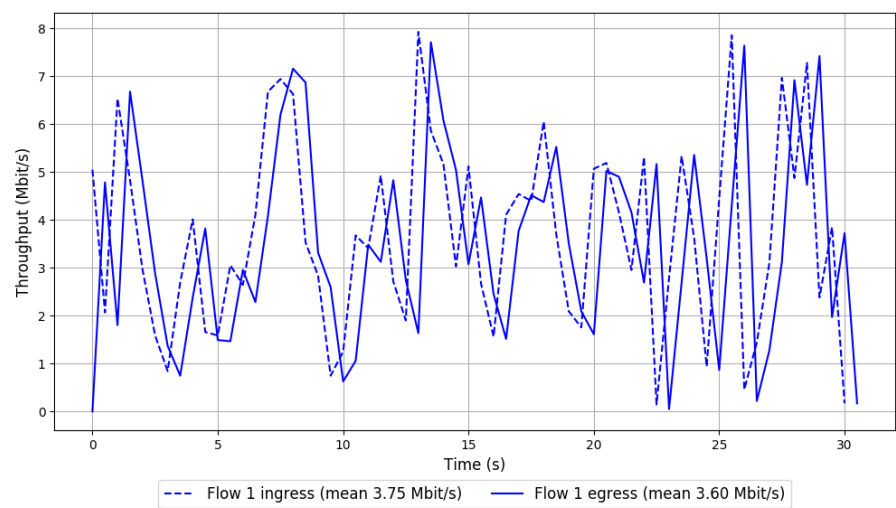
-- Flow 1:

Average throughput: 3.60 Mbit/s

95th percentile per-packet one-way delay: 17.707 ms

Loss rate: 3.84%

Run 6: Report of TCP Vegas — Data Link

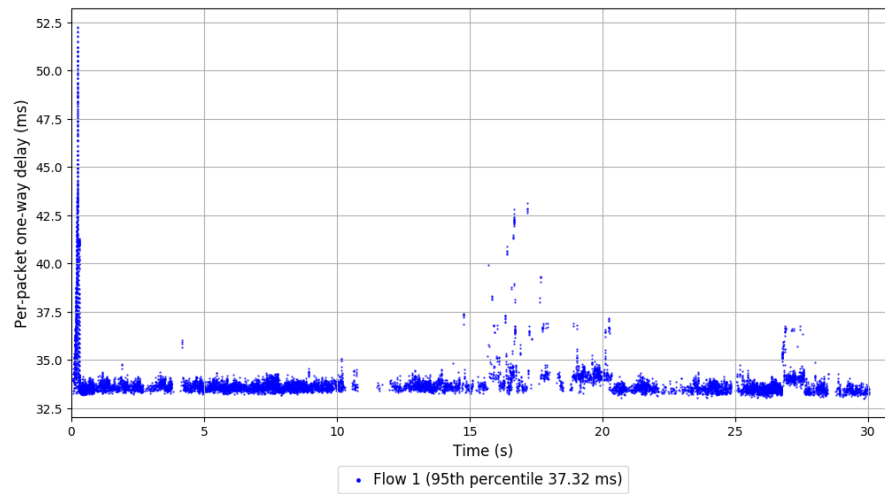
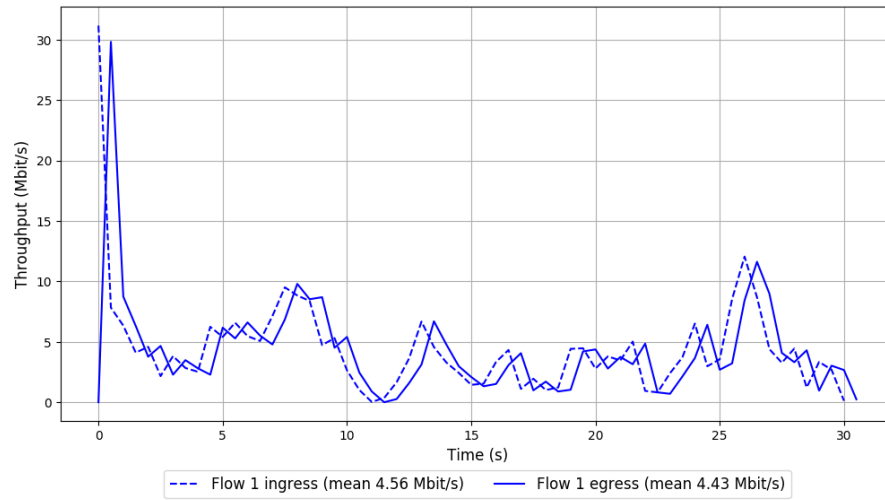


Run 7: Statistics of TCP Vegas

Start at: 2018-05-30 10:24:08
End at: 2018-05-30 10:24:38
Local clock offset: -1.289 ms
Remote clock offset: 10.031 ms

Below is generated by plot.py at 2018-05-30 11:38:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.43 Mbit/s
95th percentile per-packet one-way delay: 37.317 ms
Loss rate: 2.84%
-- Flow 1:
Average throughput: 4.43 Mbit/s
95th percentile per-packet one-way delay: 37.317 ms
Loss rate: 2.84%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-05-30 10:41:56

End at: 2018-05-30 10:42:26

Local clock offset: -0.66 ms

Remote clock offset: 9.145 ms

Below is generated by plot.py at 2018-05-30 11:38:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.25 Mbit/s

95th percentile per-packet one-way delay: 29.180 ms

Loss rate: 2.23%

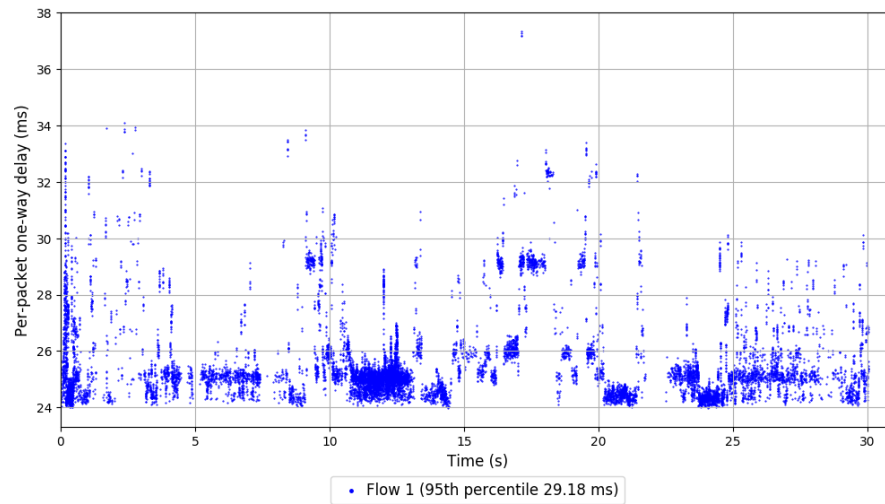
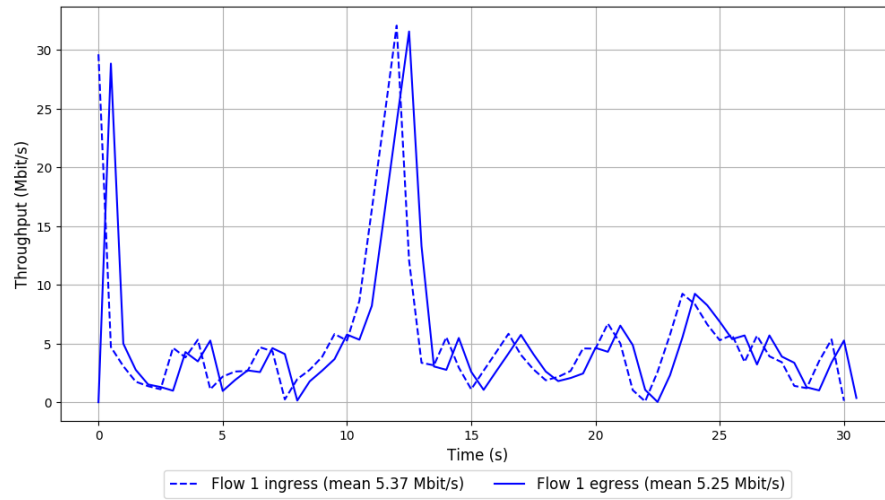
-- Flow 1:

Average throughput: 5.25 Mbit/s

95th percentile per-packet one-way delay: 29.180 ms

Loss rate: 2.23%

Run 8: Report of TCP Vegas — Data Link

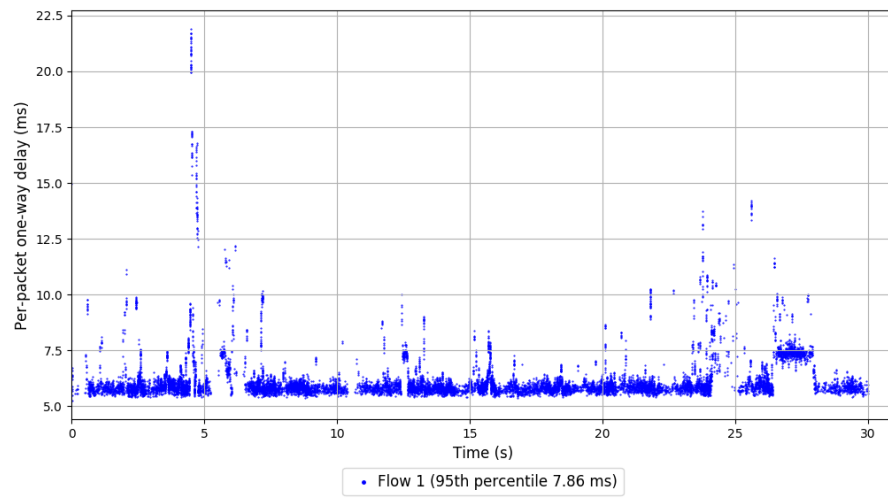
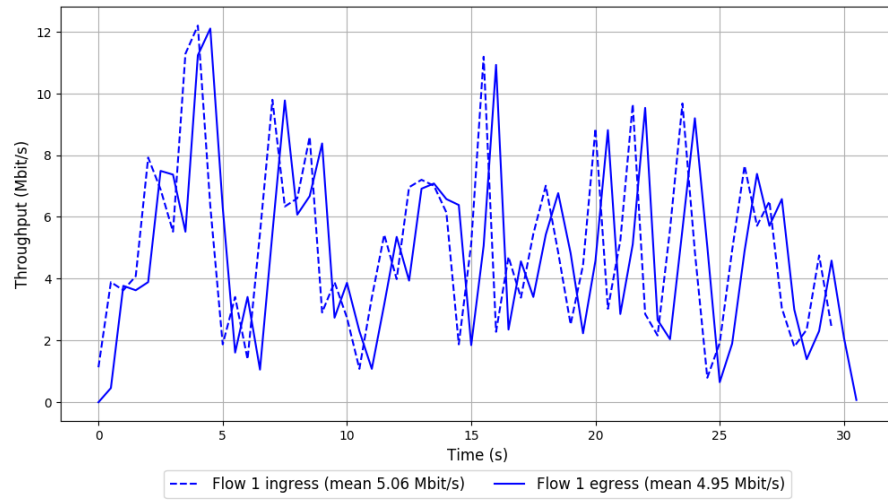


Run 9: Statistics of TCP Vegas

Start at: 2018-05-30 10:59:56
End at: 2018-05-30 11:00:26
Local clock offset: 4.338 ms
Remote clock offset: -3.784 ms

Below is generated by plot.py at 2018-05-30 11:38:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.95 Mbit/s
95th percentile per-packet one-way delay: 7.855 ms
Loss rate: 2.21%
-- Flow 1:
Average throughput: 4.95 Mbit/s
95th percentile per-packet one-way delay: 7.855 ms
Loss rate: 2.21%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-05-30 11:17:59

End at: 2018-05-30 11:18:29

Local clock offset: 2.472 ms

Remote clock offset: 1.232 ms

Below is generated by plot.py at 2018-05-30 11:38:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.81 Mbit/s

95th percentile per-packet one-way delay: 44.579 ms

Loss rate: 9.11%

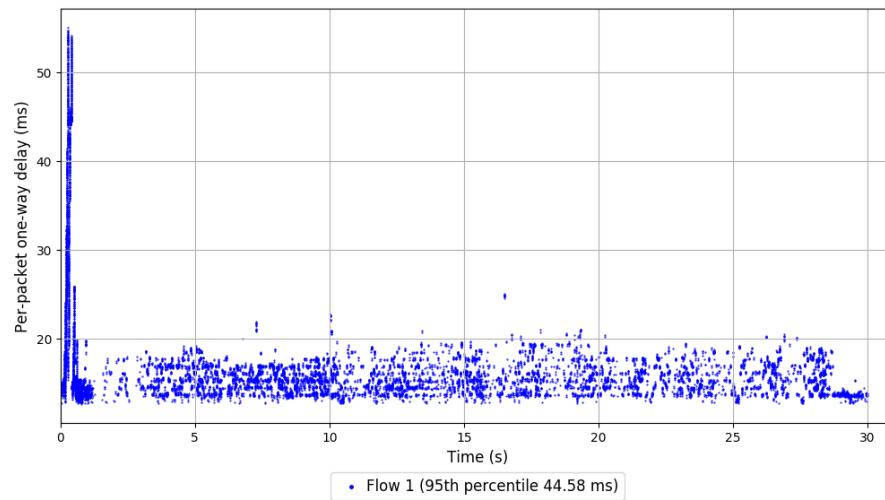
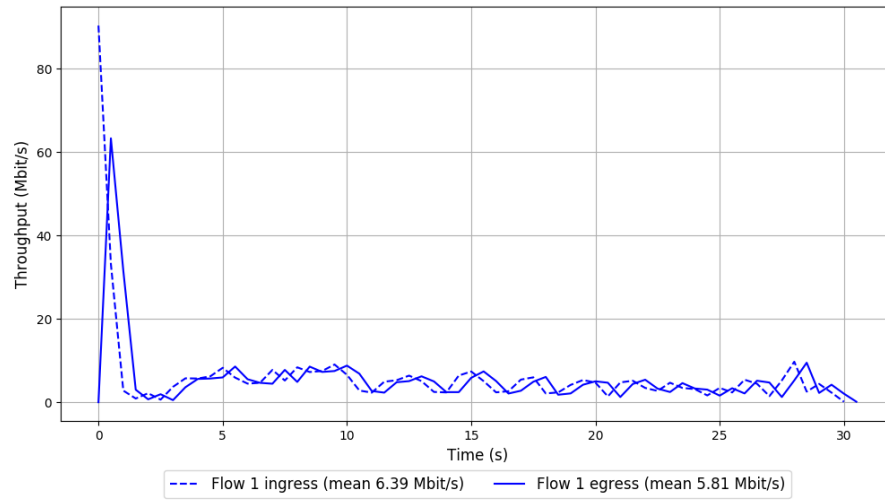
-- Flow 1:

Average throughput: 5.81 Mbit/s

95th percentile per-packet one-way delay: 44.579 ms

Loss rate: 9.11%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-30 08:40:30

End at: 2018-05-30 08:41:00

Local clock offset: 1.999 ms

Remote clock offset: 0.756 ms

Below is generated by plot.py at 2018-05-30 11:38:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.29 Mbit/s

95th percentile per-packet one-way delay: 54.625 ms

Loss rate: 32.15%

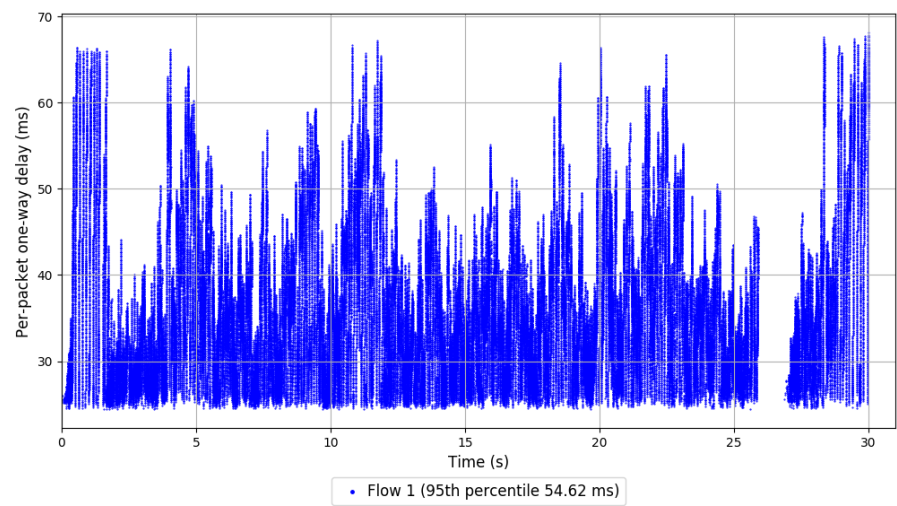
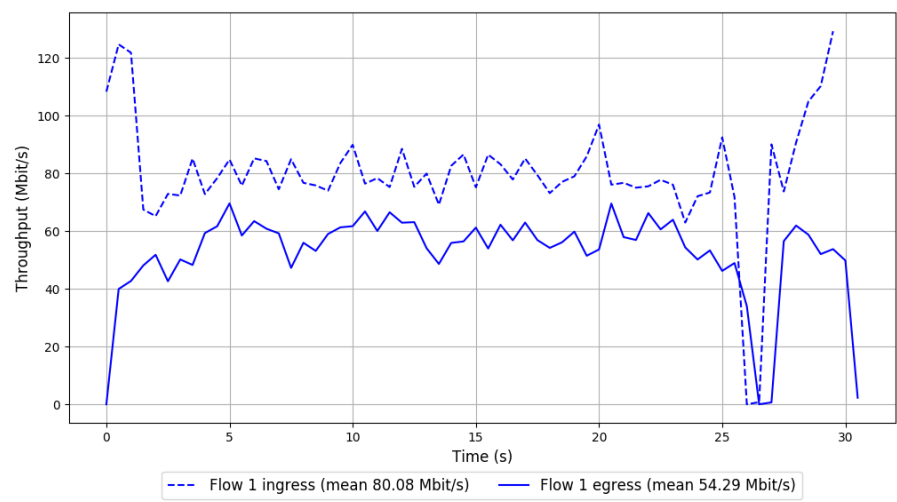
-- Flow 1:

Average throughput: 54.29 Mbit/s

95th percentile per-packet one-way delay: 54.625 ms

Loss rate: 32.15%

Run 1: Report of Verus — Data Link

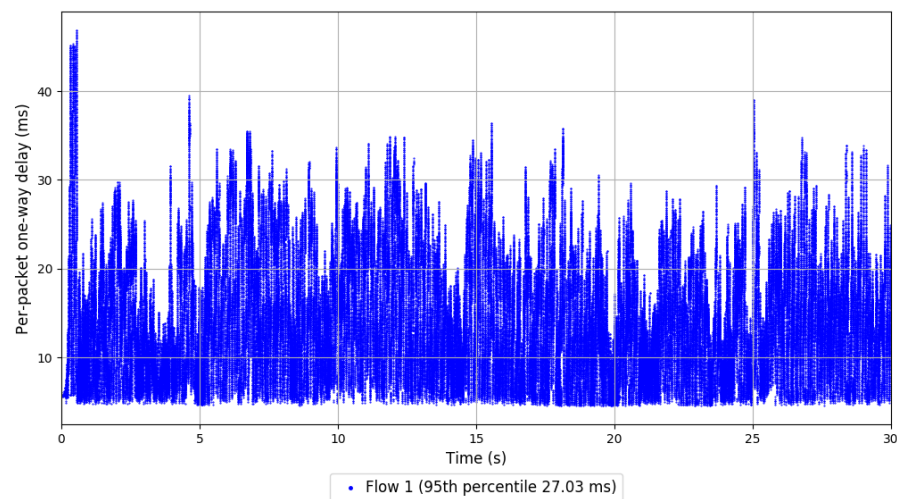
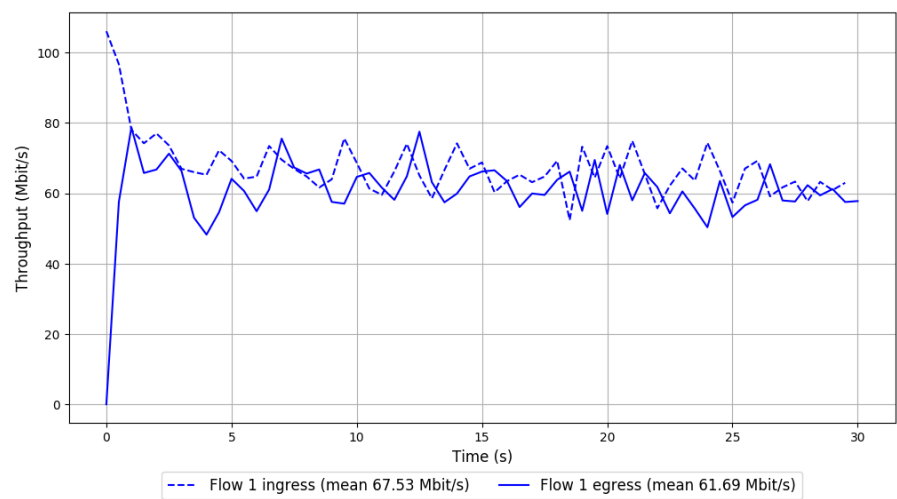


Run 2: Statistics of Verus

Start at: 2018-05-30 08:58:31
End at: 2018-05-30 08:59:01
Local clock offset: 1.748 ms
Remote clock offset: -10.637 ms

Below is generated by plot.py at 2018-05-30 11:38:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 61.69 Mbit/s
95th percentile per-packet one-way delay: 27.030 ms
Loss rate: 8.59%
-- Flow 1:
Average throughput: 61.69 Mbit/s
95th percentile per-packet one-way delay: 27.030 ms
Loss rate: 8.59%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-05-30 09:16:32

End at: 2018-05-30 09:17:02

Local clock offset: -2.739 ms

Remote clock offset: 8.239 ms

Below is generated by plot.py at 2018-05-30 11:38:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.21 Mbit/s

95th percentile per-packet one-way delay: 67.779 ms

Loss rate: 45.66%

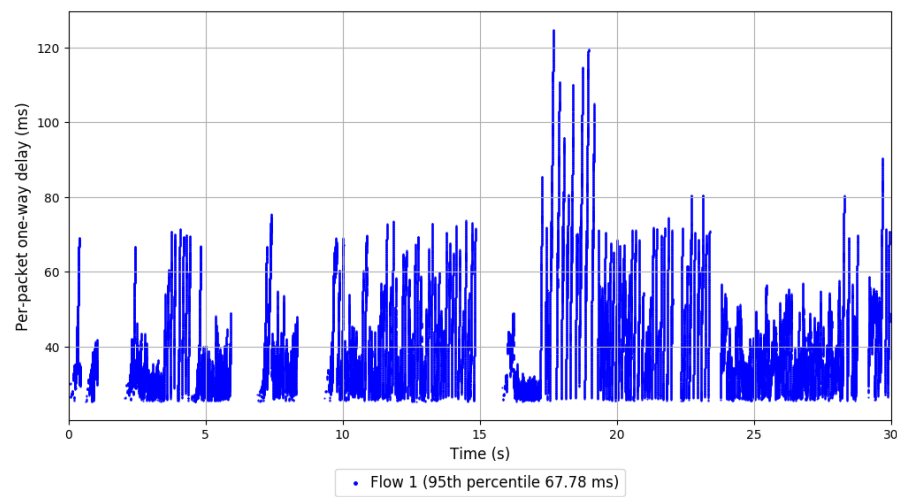
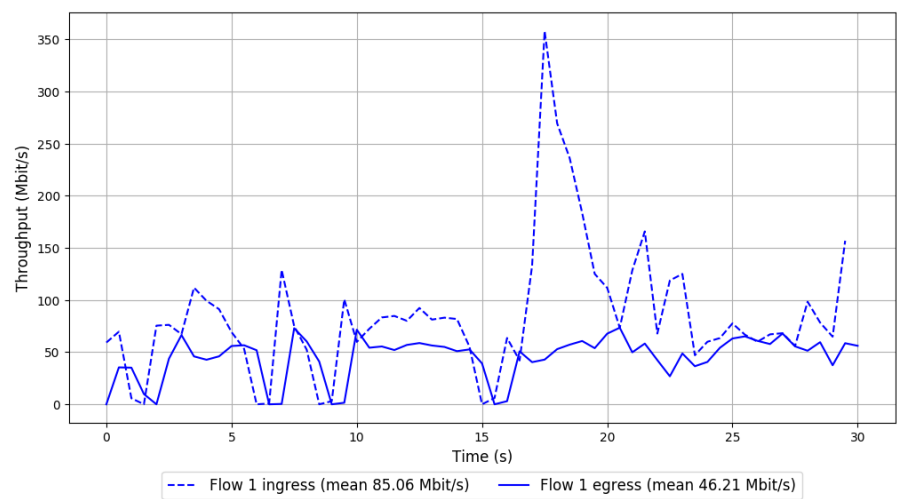
-- Flow 1:

Average throughput: 46.21 Mbit/s

95th percentile per-packet one-way delay: 67.779 ms

Loss rate: 45.66%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-05-30 09:34:30

End at: 2018-05-30 09:35:00

Local clock offset: -3.978 ms

Remote clock offset: 6.427 ms

Below is generated by plot.py at 2018-05-30 11:38:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.77 Mbit/s

95th percentile per-packet one-way delay: 54.312 ms

Loss rate: 17.91%

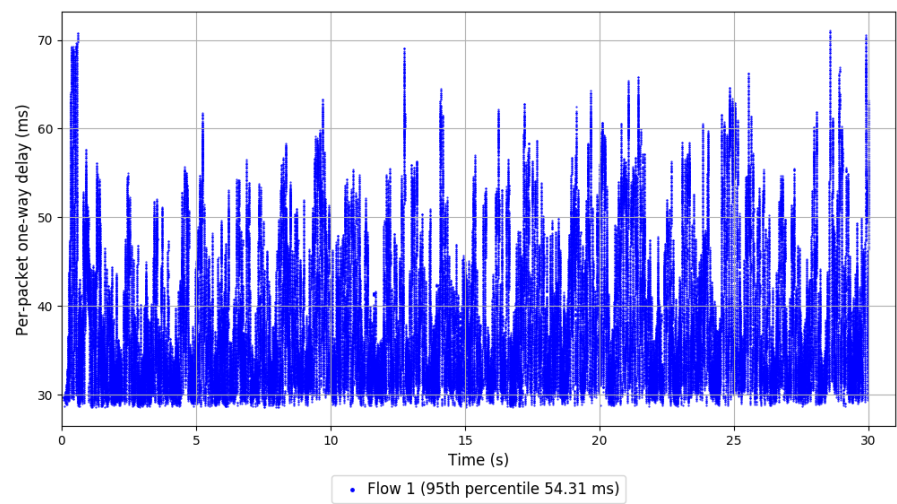
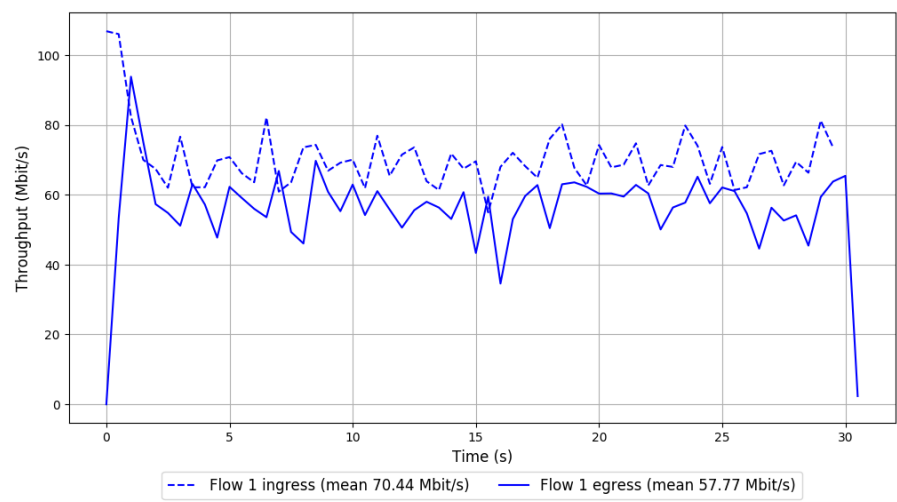
-- Flow 1:

Average throughput: 57.77 Mbit/s

95th percentile per-packet one-way delay: 54.312 ms

Loss rate: 17.91%

Run 4: Report of Verus — Data Link

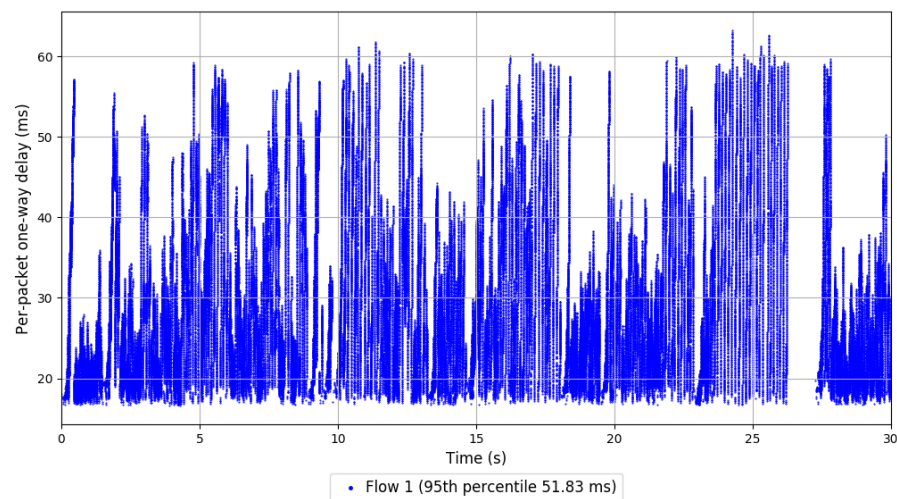
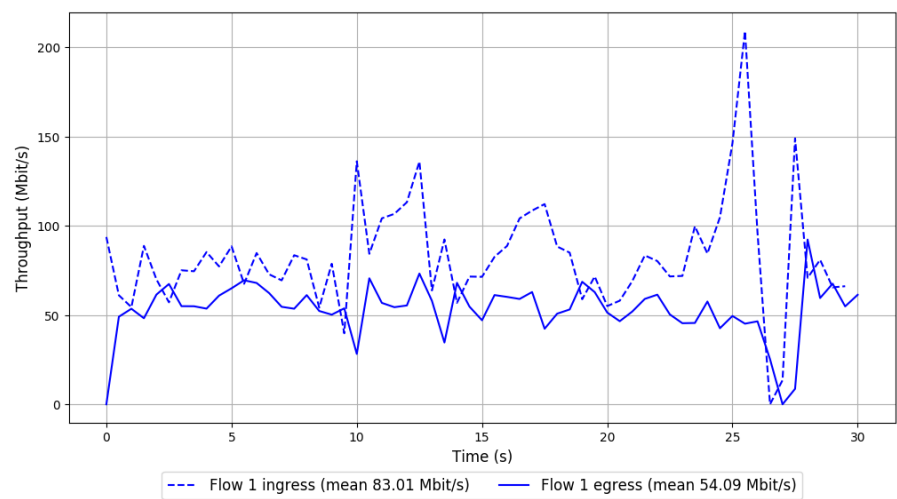


Run 5: Statistics of Verus

Start at: 2018-05-30 09:52:44
End at: 2018-05-30 09:53:14
Local clock offset: 1.306 ms
Remote clock offset: -2.554 ms

Below is generated by plot.py at 2018-05-30 11:38:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 54.09 Mbit/s
95th percentile per-packet one-way delay: 51.832 ms
Loss rate: 34.83%
-- Flow 1:
Average throughput: 54.09 Mbit/s
95th percentile per-packet one-way delay: 51.832 ms
Loss rate: 34.83%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-05-30 10:10:44

End at: 2018-05-30 10:11:14

Local clock offset: -2.15 ms

Remote clock offset: 3.194 ms

Below is generated by plot.py at 2018-05-30 11:38:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.64 Mbit/s

95th percentile per-packet one-way delay: 62.919 ms

Loss rate: 48.06%

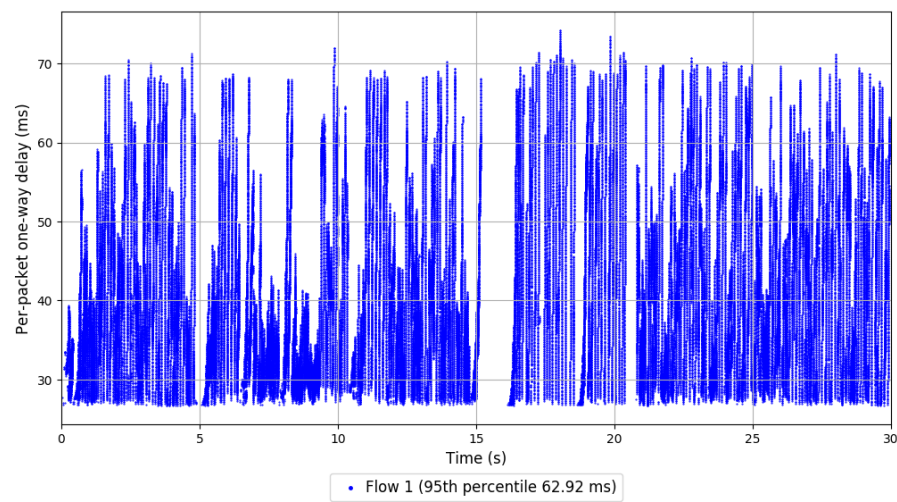
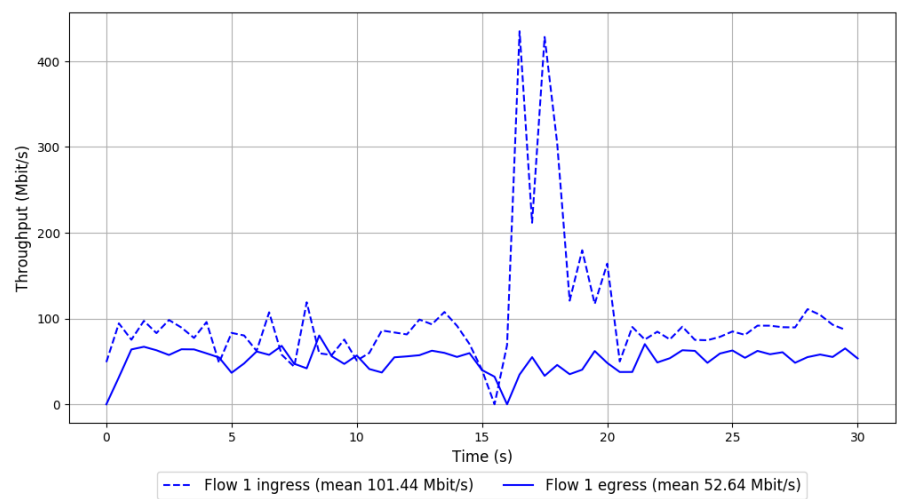
-- Flow 1:

Average throughput: 52.64 Mbit/s

95th percentile per-packet one-way delay: 62.919 ms

Loss rate: 48.06%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-05-30 10:28:29

End at: 2018-05-30 10:28:59

Local clock offset: -1.378 ms

Remote clock offset: 5.921 ms

Below is generated by plot.py at 2018-05-30 11:38:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.90 Mbit/s

95th percentile per-packet one-way delay: 61.439 ms

Loss rate: 41.43%

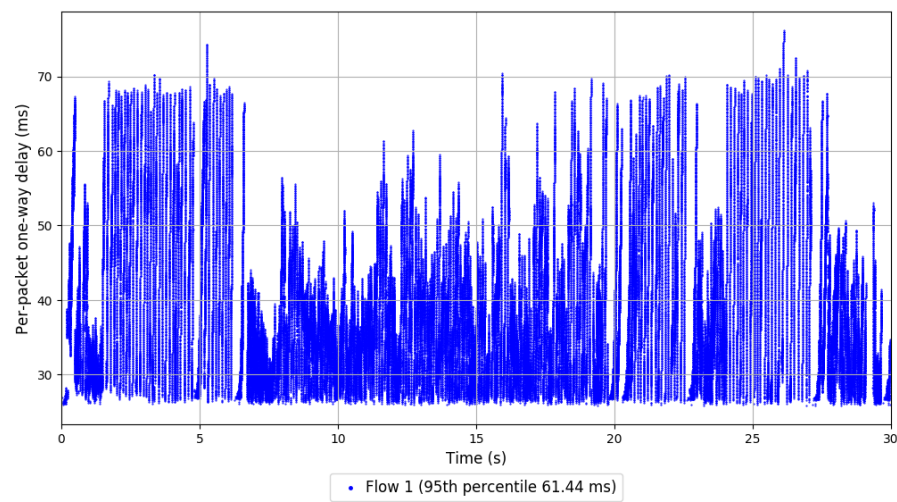
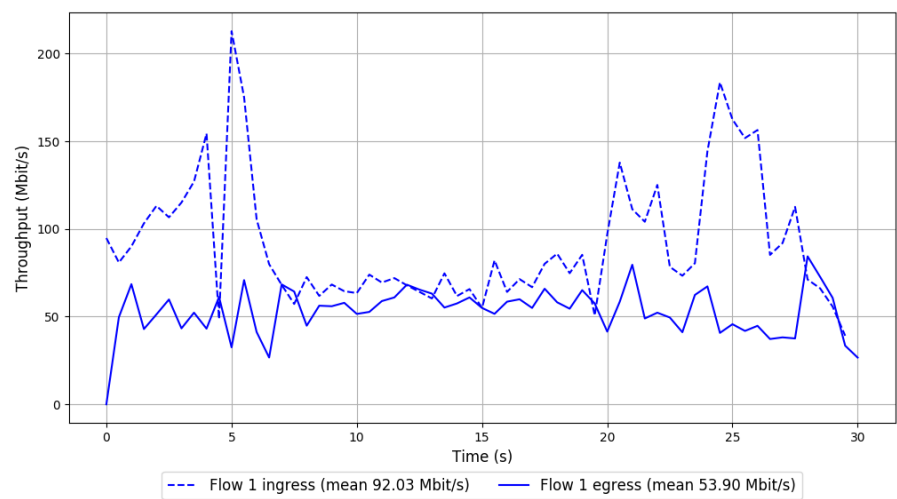
-- Flow 1:

Average throughput: 53.90 Mbit/s

95th percentile per-packet one-way delay: 61.439 ms

Loss rate: 41.43%

Run 7: Report of Verus — Data Link

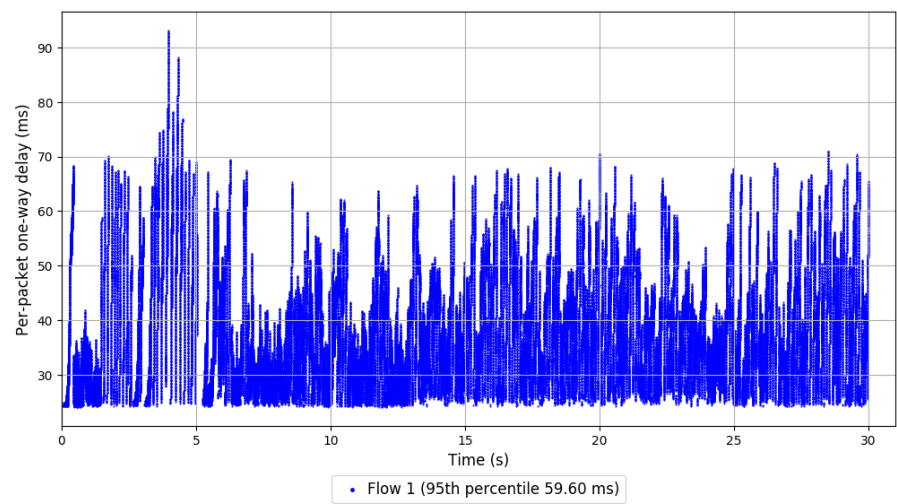
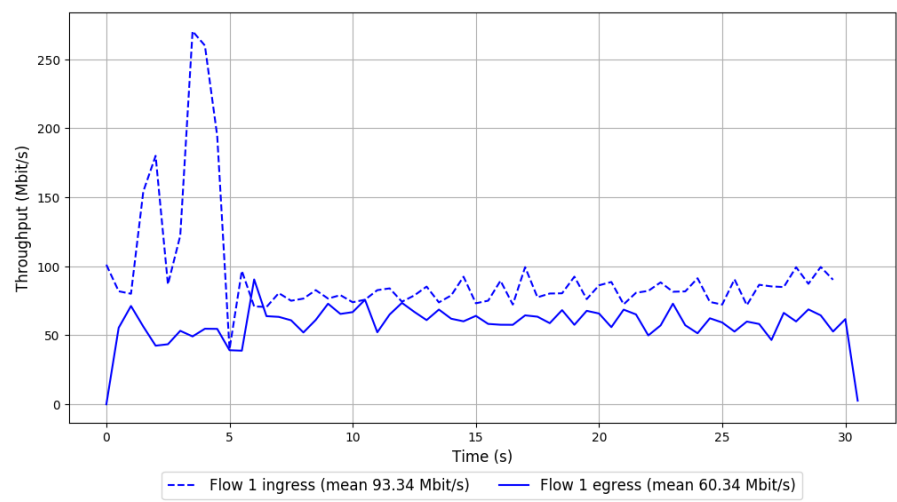


Run 8: Statistics of Verus

Start at: 2018-05-30 10:46:16
End at: 2018-05-30 10:46:46
Local clock offset: 1.822 ms
Remote clock offset: 11.912 ms

Below is generated by plot.py at 2018-05-30 11:38:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 60.34 Mbit/s
95th percentile per-packet one-way delay: 59.597 ms
Loss rate: 35.29%
-- Flow 1:
Average throughput: 60.34 Mbit/s
95th percentile per-packet one-way delay: 59.597 ms
Loss rate: 35.29%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-05-30 11:04:16

End at: 2018-05-30 11:04:46

Local clock offset: -0.929 ms

Remote clock offset: 5.039 ms

Below is generated by plot.py at 2018-05-30 11:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.03 Mbit/s

95th percentile per-packet one-way delay: 51.556 ms

Loss rate: 23.02%

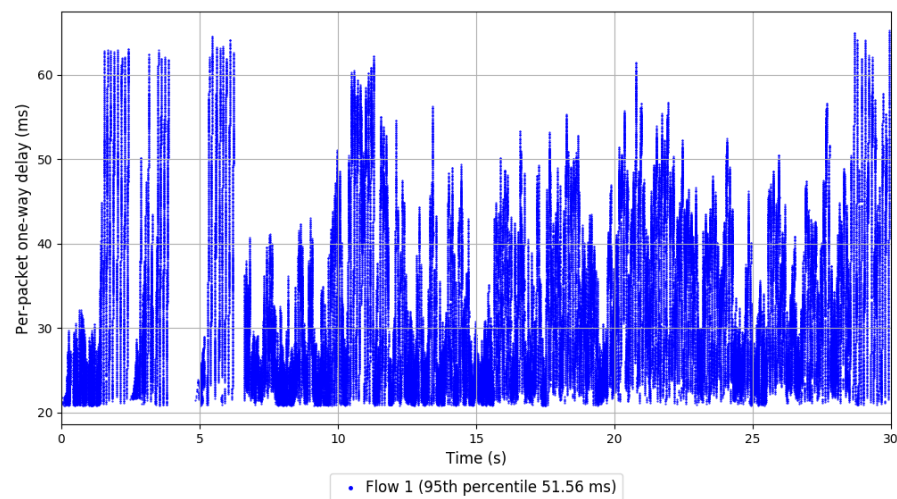
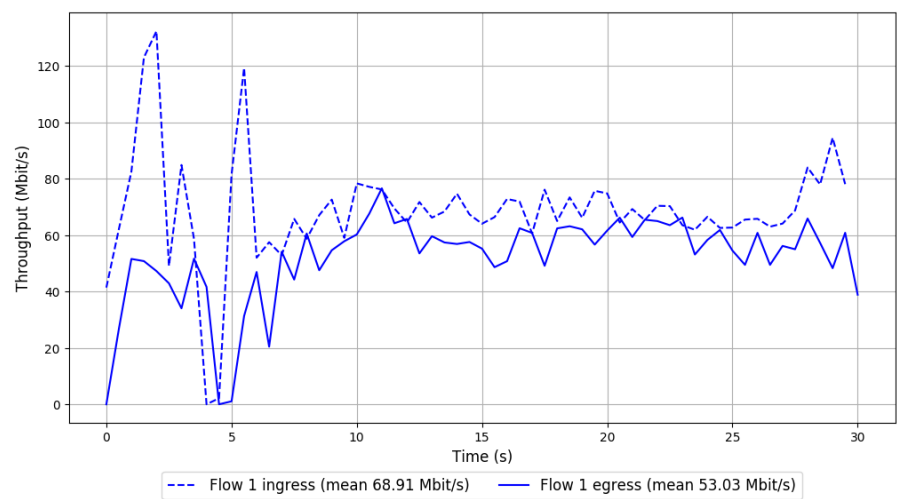
-- Flow 1:

Average throughput: 53.03 Mbit/s

95th percentile per-packet one-way delay: 51.556 ms

Loss rate: 23.02%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-05-30 11:22:23

End at: 2018-05-30 11:22:53

Local clock offset: -0.248 ms

Remote clock offset: 3.406 ms

Below is generated by plot.py at 2018-05-30 11:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.04 Mbit/s

95th percentile per-packet one-way delay: 55.167 ms

Loss rate: 45.72%

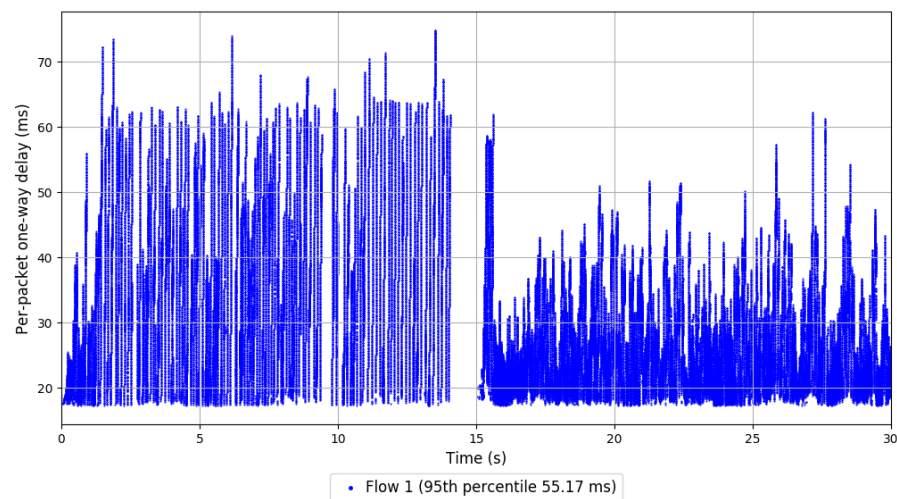
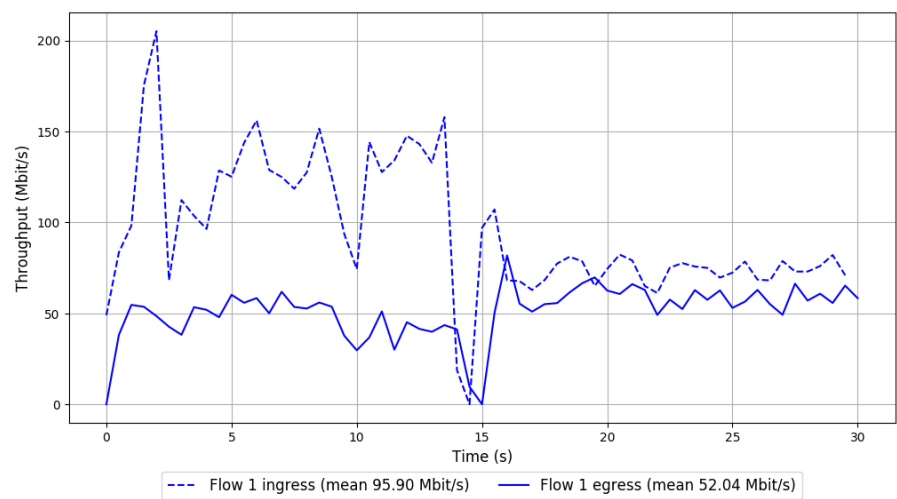
-- Flow 1:

Average throughput: 52.04 Mbit/s

95th percentile per-packet one-way delay: 55.167 ms

Loss rate: 45.72%

Run 10: Report of Verus — Data Link

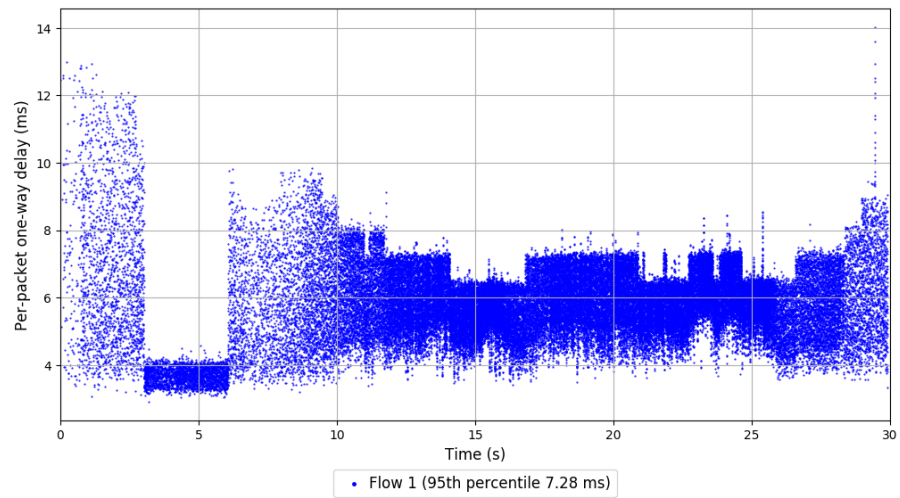
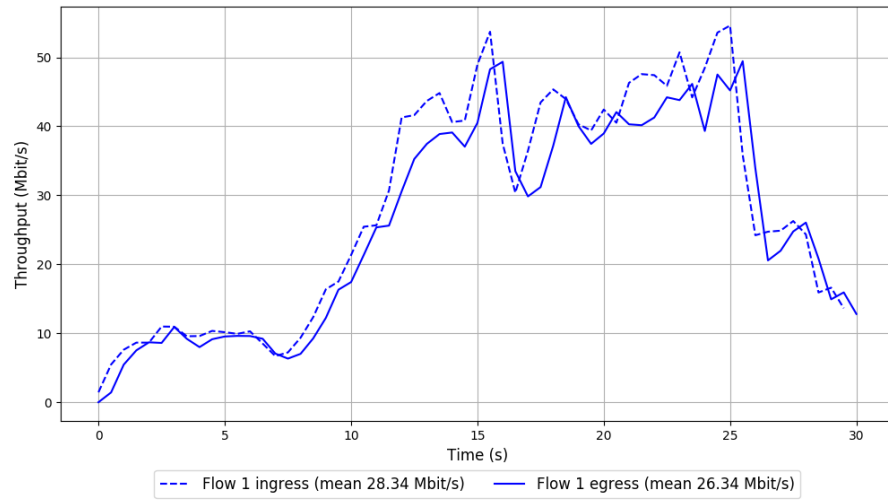


Run 1: Statistics of PCC-Vivace

Start at: 2018-05-30 08:25:32
End at: 2018-05-30 08:26:02
Local clock offset: -0.108 ms
Remote clock offset: -19.96 ms

Below is generated by plot.py at 2018-05-30 11:38:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 26.34 Mbit/s
95th percentile per-packet one-way delay: 7.282 ms
Loss rate: 7.10%
-- Flow 1:
Average throughput: 26.34 Mbit/s
95th percentile per-packet one-way delay: 7.282 ms
Loss rate: 7.10%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-05-30 08:44:06

End at: 2018-05-30 08:44:36

Local clock offset: 0.016 ms

Remote clock offset: 0.115 ms

Below is generated by plot.py at 2018-05-30 11:38:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.77 Mbit/s

95th percentile per-packet one-way delay: 25.382 ms

Loss rate: 7.29%

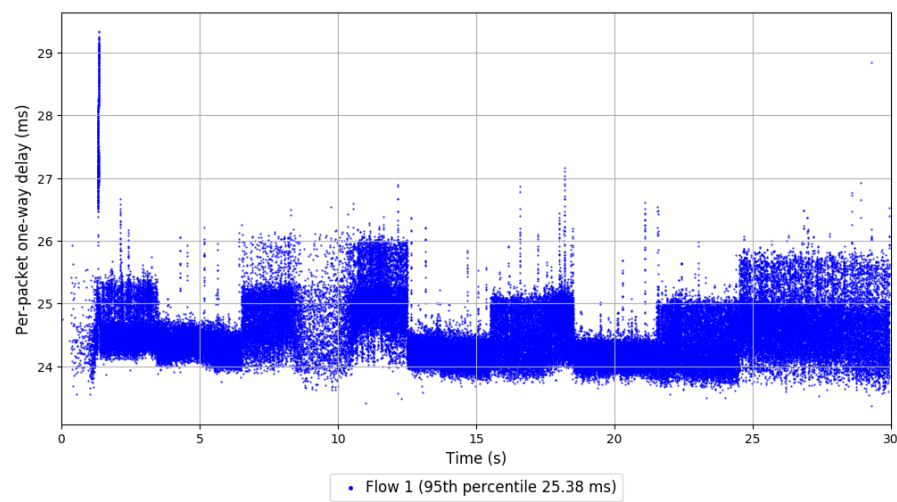
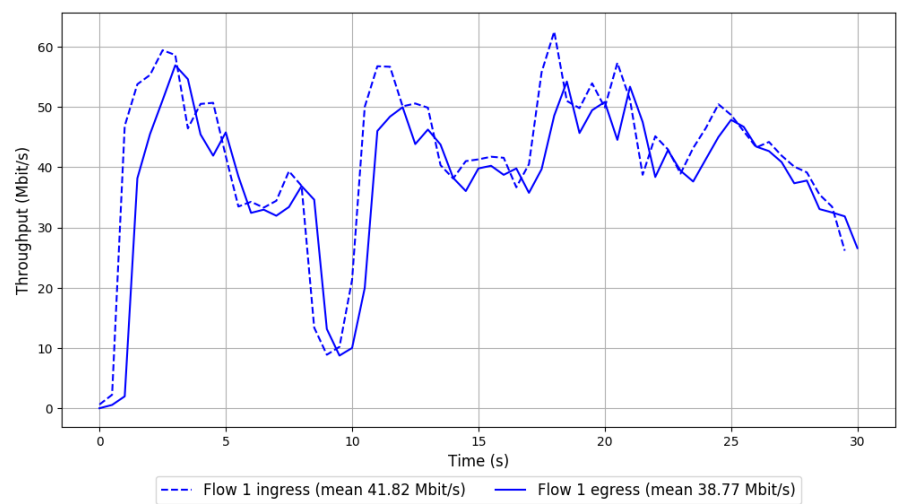
-- Flow 1:

Average throughput: 38.77 Mbit/s

95th percentile per-packet one-way delay: 25.382 ms

Loss rate: 7.29%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-05-30 09:02:04

End at: 2018-05-30 09:02:34

Local clock offset: -0.399 ms

Remote clock offset: 1.08 ms

Below is generated by plot.py at 2018-05-30 11:39:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.79 Mbit/s

95th percentile per-packet one-way delay: 20.611 ms

Loss rate: 4.82%

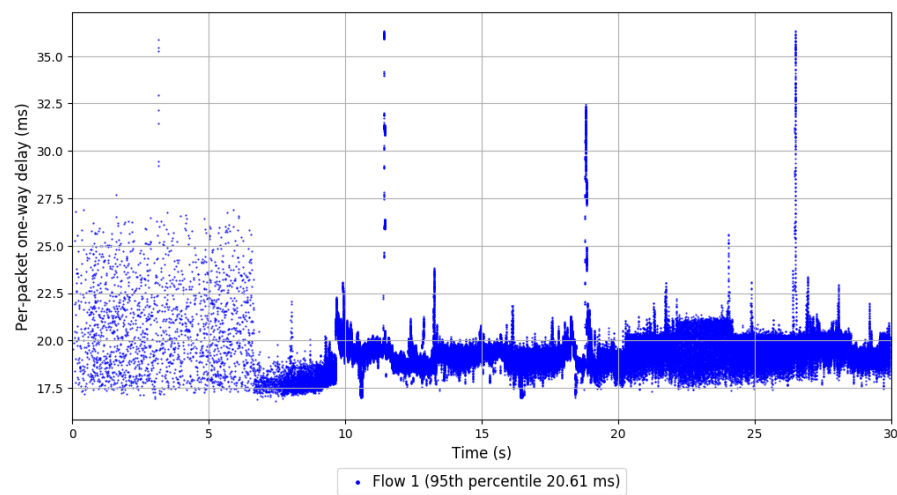
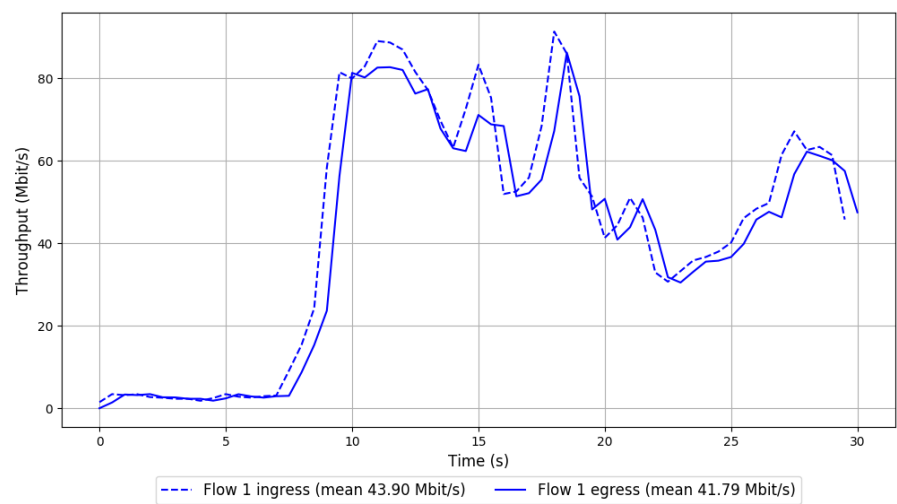
-- Flow 1:

Average throughput: 41.79 Mbit/s

95th percentile per-packet one-way delay: 20.611 ms

Loss rate: 4.82%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-05-30 09:20:06

End at: 2018-05-30 09:20:36

Local clock offset: -0.678 ms

Remote clock offset: 3.435 ms

Below is generated by plot.py at 2018-05-30 11:39:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.75 Mbit/s

95th percentile per-packet one-way delay: 21.970 ms

Loss rate: 5.99%

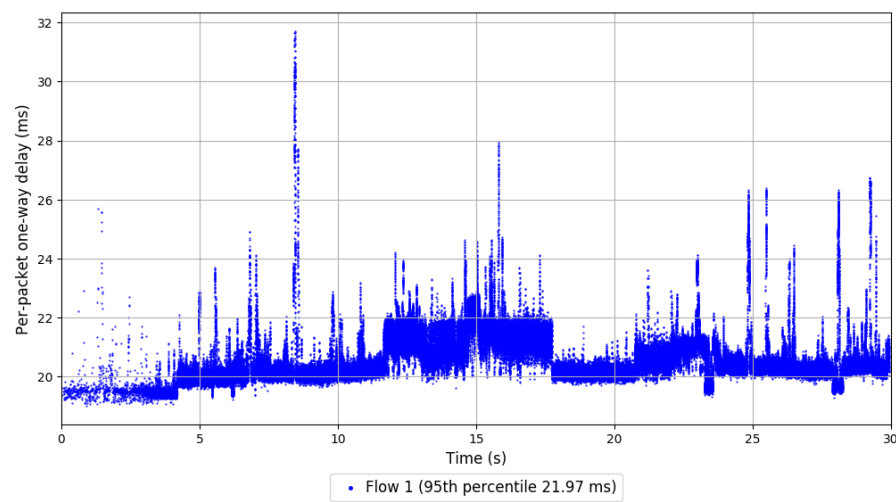
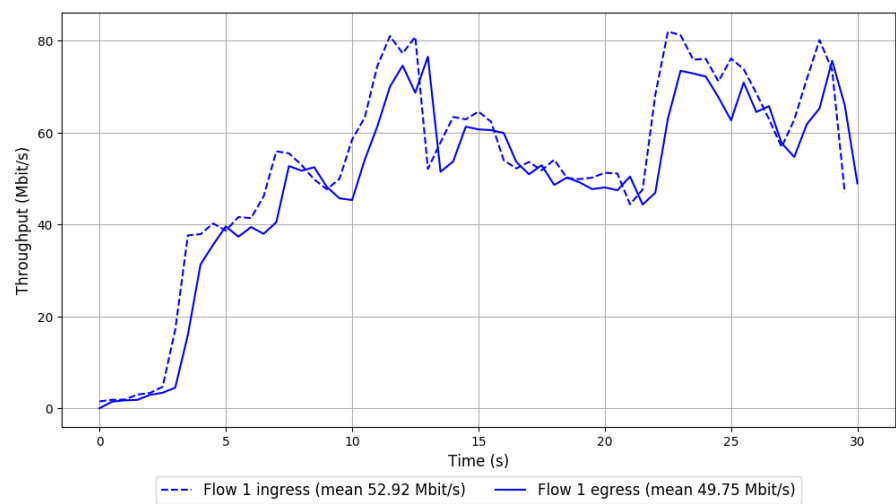
-- Flow 1:

Average throughput: 49.75 Mbit/s

95th percentile per-packet one-way delay: 21.970 ms

Loss rate: 5.99%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-05-30 09:38:09

End at: 2018-05-30 09:38:39

Local clock offset: -1.474 ms

Remote clock offset: 3.574 ms

Below is generated by plot.py at 2018-05-30 11:39:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.56 Mbit/s

95th percentile per-packet one-way delay: 25.196 ms

Loss rate: 6.24%

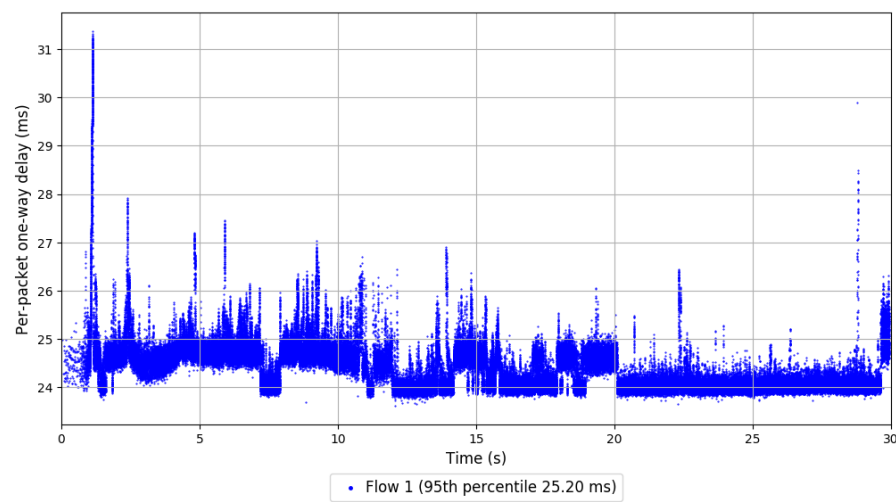
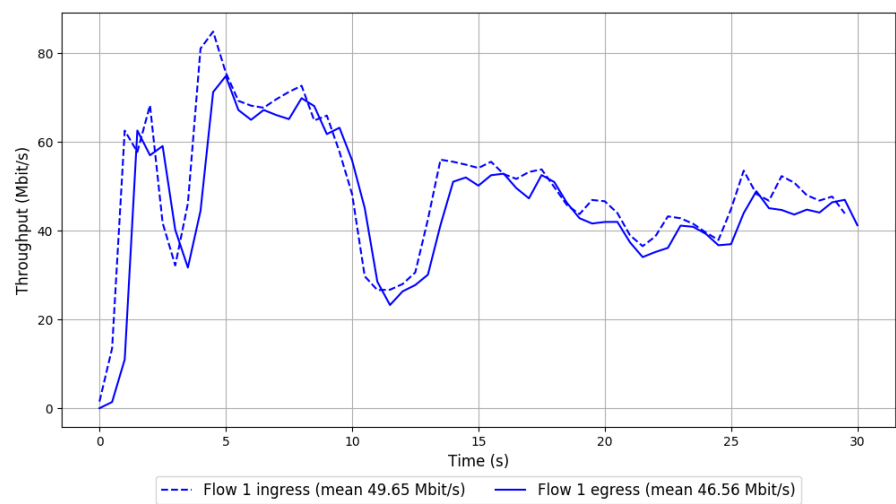
-- Flow 1:

Average throughput: 46.56 Mbit/s

95th percentile per-packet one-way delay: 25.196 ms

Loss rate: 6.24%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-05-30 09:56:18

End at: 2018-05-30 09:56:48

Local clock offset: -1.8 ms

Remote clock offset: 5.362 ms

Below is generated by plot.py at 2018-05-30 11:39:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.23 Mbit/s

95th percentile per-packet one-way delay: 29.717 ms

Loss rate: 7.08%

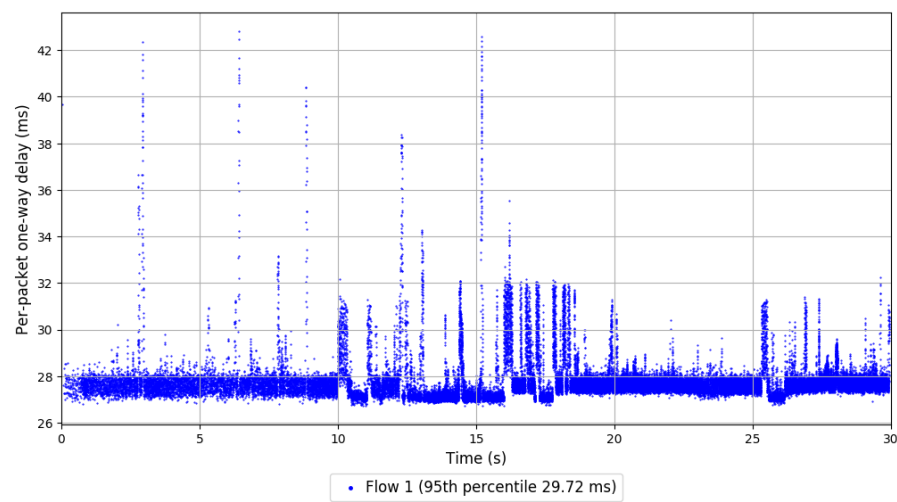
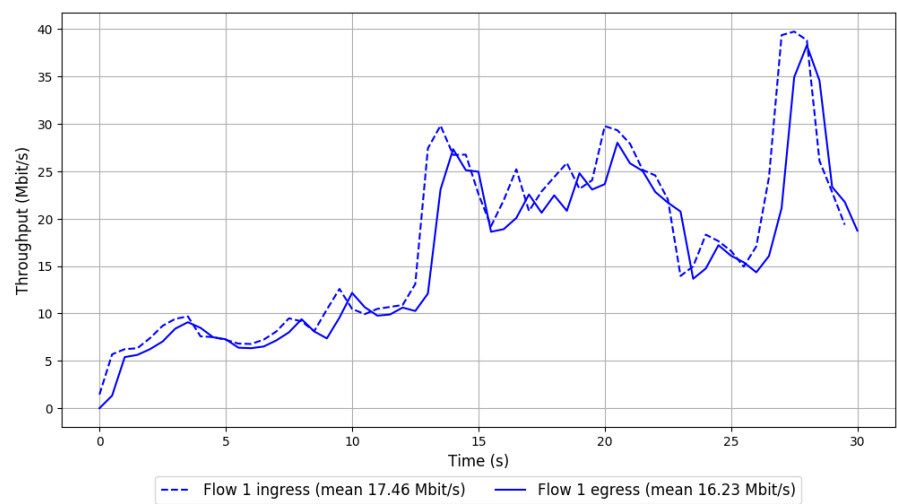
-- Flow 1:

Average throughput: 16.23 Mbit/s

95th percentile per-packet one-way delay: 29.717 ms

Loss rate: 7.08%

Run 6: Report of PCC-Vivace — Data Link

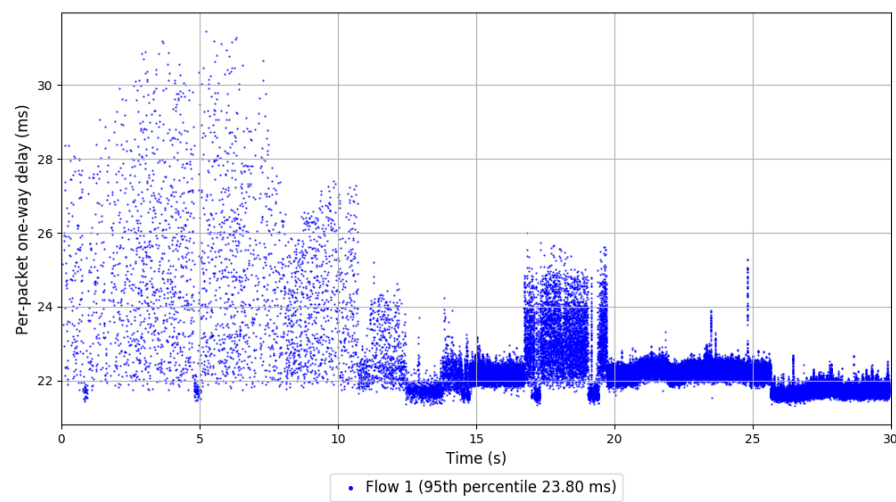
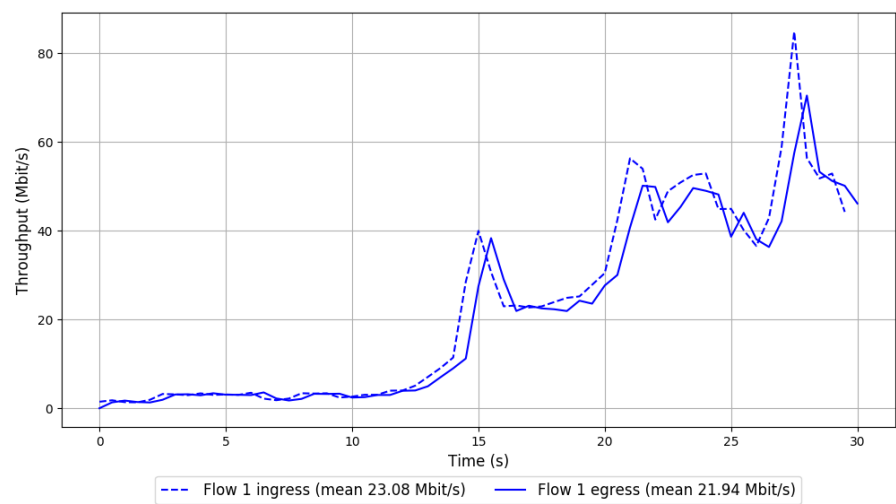


Run 7: Statistics of PCC-Vivace

Start at: 2018-05-30 10:14:16
End at: 2018-05-30 10:14:46
Local clock offset: -0.569 ms
Remote clock offset: -0.557 ms

Below is generated by plot.py at 2018-05-30 11:39:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 21.94 Mbit/s
95th percentile per-packet one-way delay: 23.795 ms
Loss rate: 4.97%
-- Flow 1:
Average throughput: 21.94 Mbit/s
95th percentile per-packet one-way delay: 23.795 ms
Loss rate: 4.97%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-05-30 10:32:02

End at: 2018-05-30 10:32:32

Local clock offset: -3.245 ms

Remote clock offset: 9.939 ms

Below is generated by plot.py at 2018-05-30 11:39:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.05 Mbit/s

95th percentile per-packet one-way delay: 31.769 ms

Loss rate: 7.30%

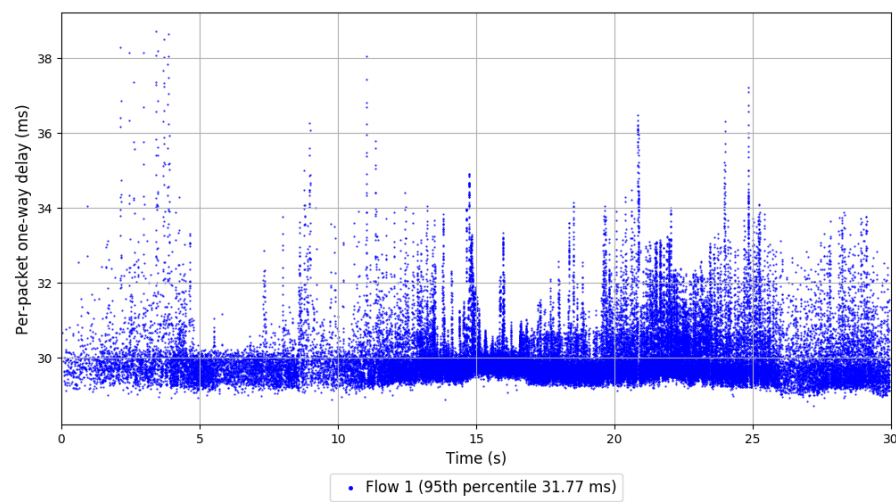
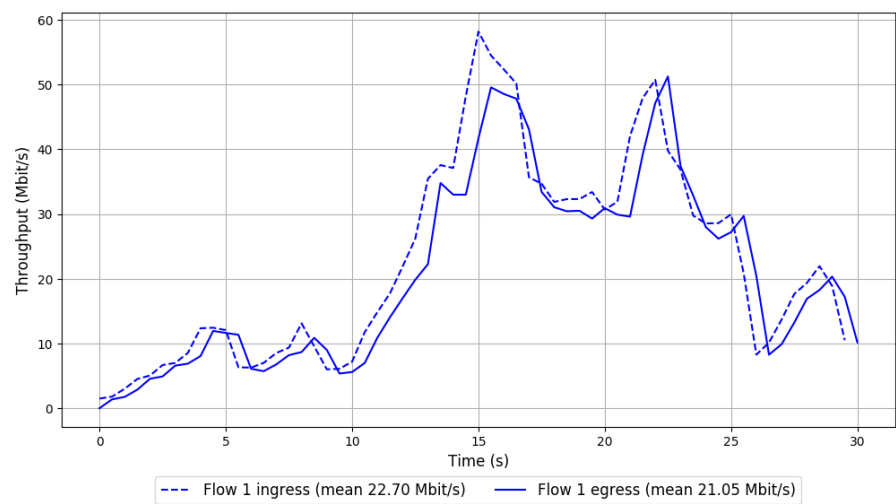
-- Flow 1:

Average throughput: 21.05 Mbit/s

95th percentile per-packet one-way delay: 31.769 ms

Loss rate: 7.30%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-05-30 10:49:55

End at: 2018-05-30 10:50:25

Local clock offset: 3.162 ms

Remote clock offset: 8.855 ms

Below is generated by plot.py at 2018-05-30 11:39:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.86 Mbit/s

95th percentile per-packet one-way delay: 22.638 ms

Loss rate: 8.62%

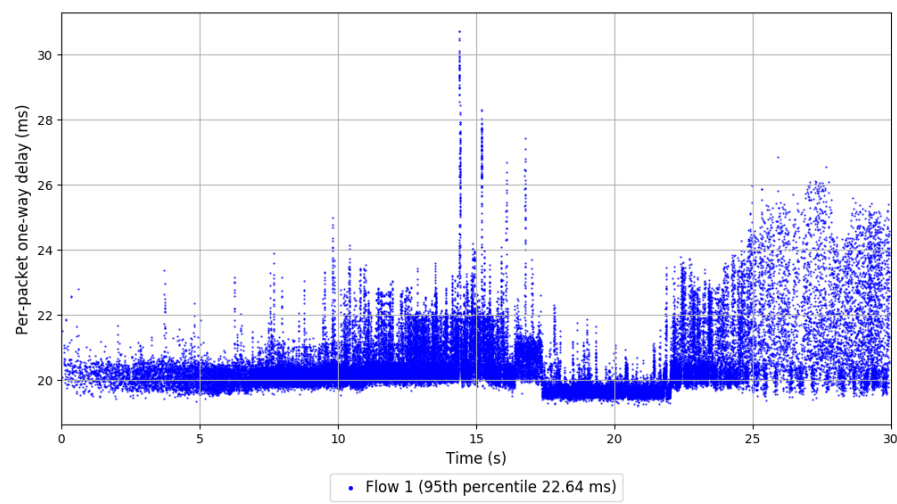
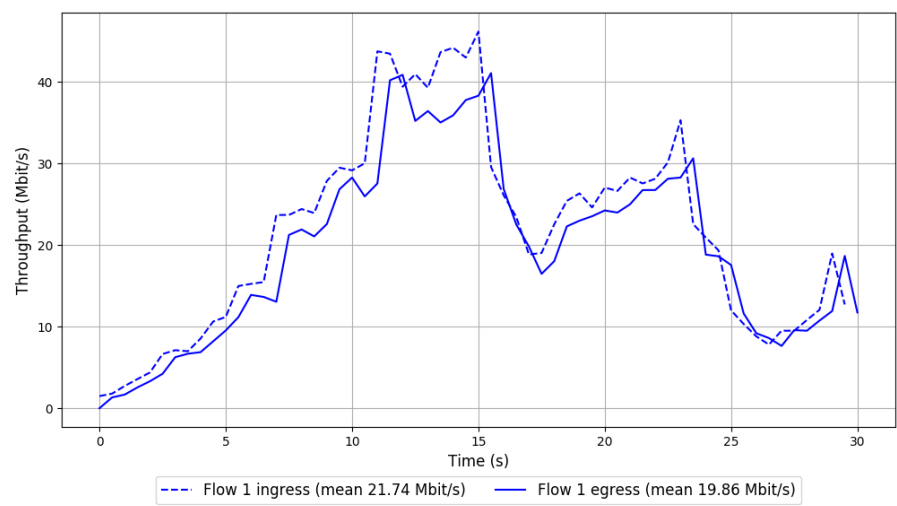
-- Flow 1:

Average throughput: 19.86 Mbit/s

95th percentile per-packet one-way delay: 22.638 ms

Loss rate: 8.62%

Run 9: Report of PCC-Vivace — Data Link

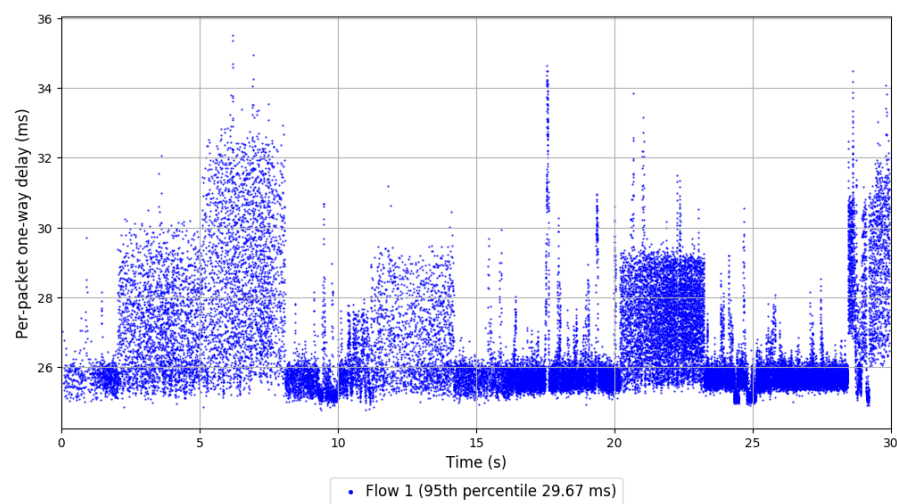
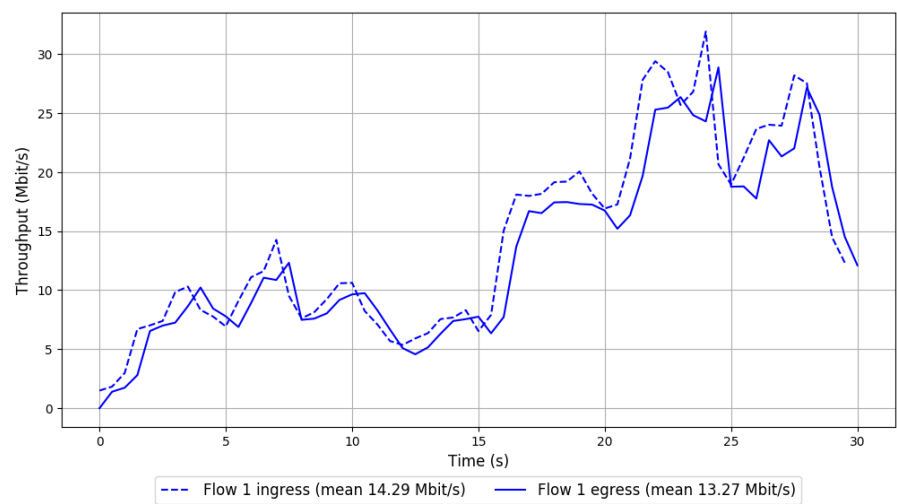


Run 10: Statistics of PCC-Vivace

Start at: 2018-05-30 11:08:01
End at: 2018-05-30 11:08:31
Local clock offset: -0.693 ms
Remote clock offset: 10.324 ms

Below is generated by plot.py at 2018-05-30 11:39:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.27 Mbit/s
95th percentile per-packet one-way delay: 29.669 ms
Loss rate: 7.15%
-- Flow 1:
Average throughput: 13.27 Mbit/s
95th percentile per-packet one-way delay: 29.669 ms
Loss rate: 7.15%

Run 10: Report of PCC-Vivace — Data Link

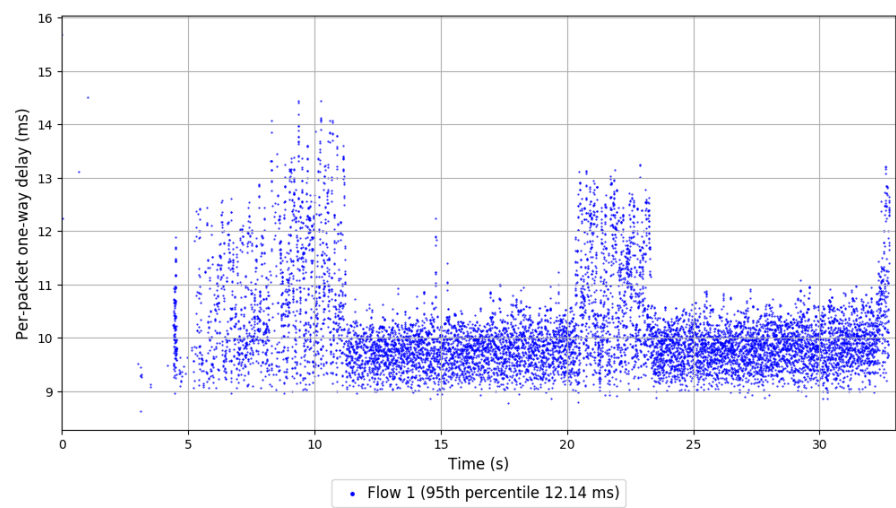
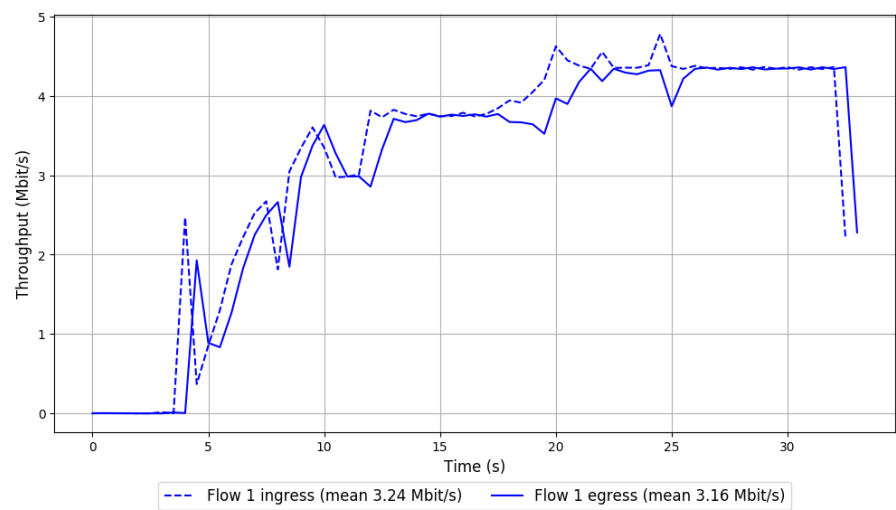


Run 1: Statistics of WebRTC media

Start at: 2018-05-30 08:26:39
End at: 2018-05-30 08:27:09
Local clock offset: -0.301 ms
Remote clock offset: -14.648 ms

Below is generated by plot.py at 2018-05-30 11:39:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.16 Mbit/s
95th percentile per-packet one-way delay: 12.145 ms
Loss rate: 2.48%
-- Flow 1:
Average throughput: 3.16 Mbit/s
95th percentile per-packet one-way delay: 12.145 ms
Loss rate: 2.48%

Run 1: Report of WebRTC media — Data Link

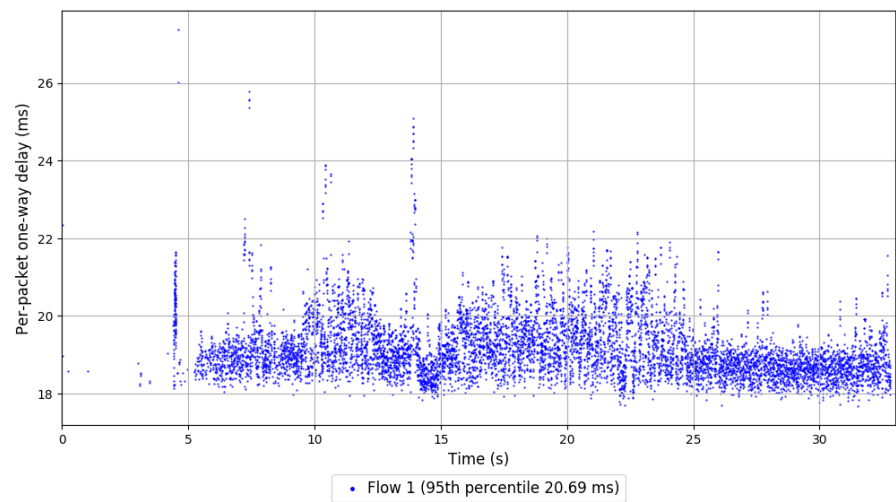
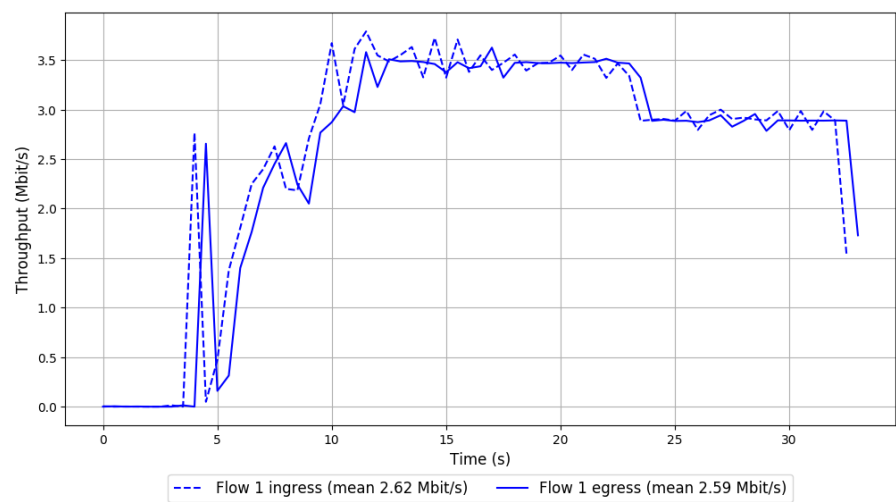


Run 2: Statistics of WebRTC media

Start at: 2018-05-30 08:45:15
End at: 2018-05-30 08:45:45
Local clock offset: -0.939 ms
Remote clock offset: -4.411 ms

Below is generated by plot.py at 2018-05-30 11:39:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.59 Mbit/s
95th percentile per-packet one-way delay: 20.691 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 2.59 Mbit/s
95th percentile per-packet one-way delay: 20.691 ms
Loss rate: 1.36%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-05-30 09:03:12

End at: 2018-05-30 09:03:42

Local clock offset: 0.414 ms

Remote clock offset: 0.546 ms

Below is generated by plot.py at 2018-05-30 11:39:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 17.988 ms

Loss rate: 0.01%

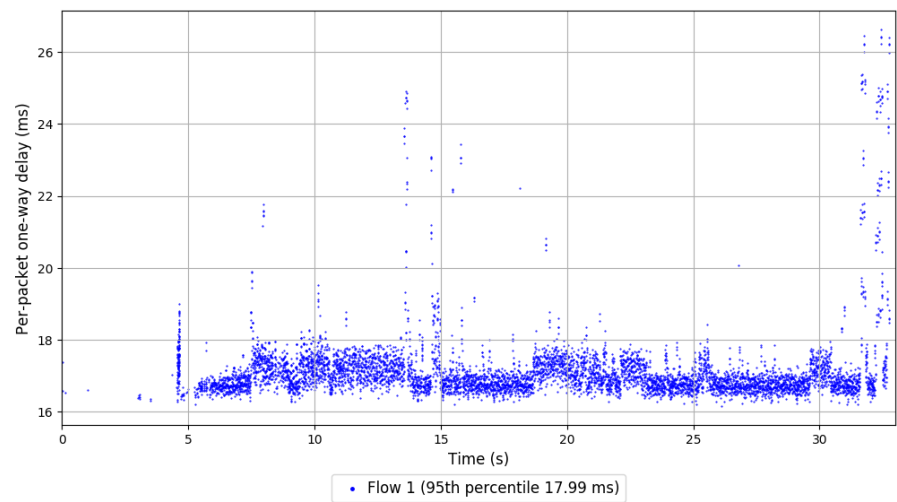
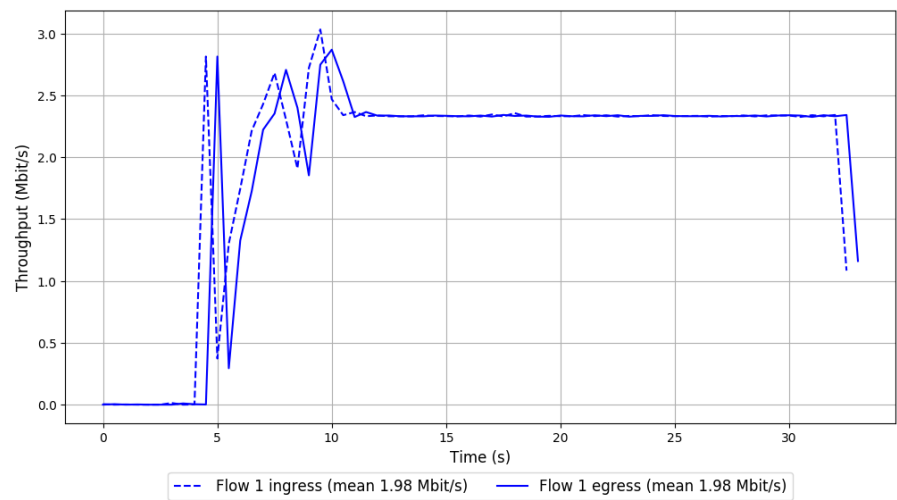
-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 17.988 ms

Loss rate: 0.01%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-05-30 09:21:14

End at: 2018-05-30 09:21:44

Local clock offset: -2.834 ms

Remote clock offset: 6.373 ms

Below is generated by plot.py at 2018-05-30 11:39:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.47 Mbit/s

95th percentile per-packet one-way delay: 32.009 ms

Loss rate: 0.84%

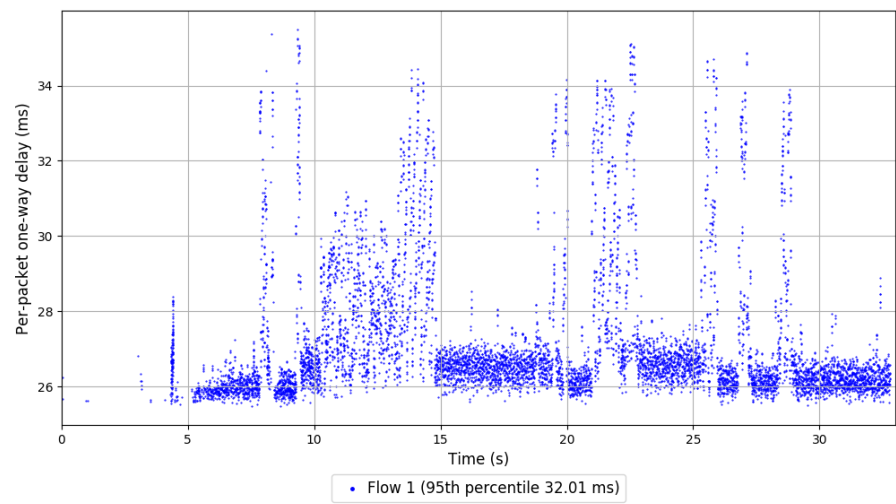
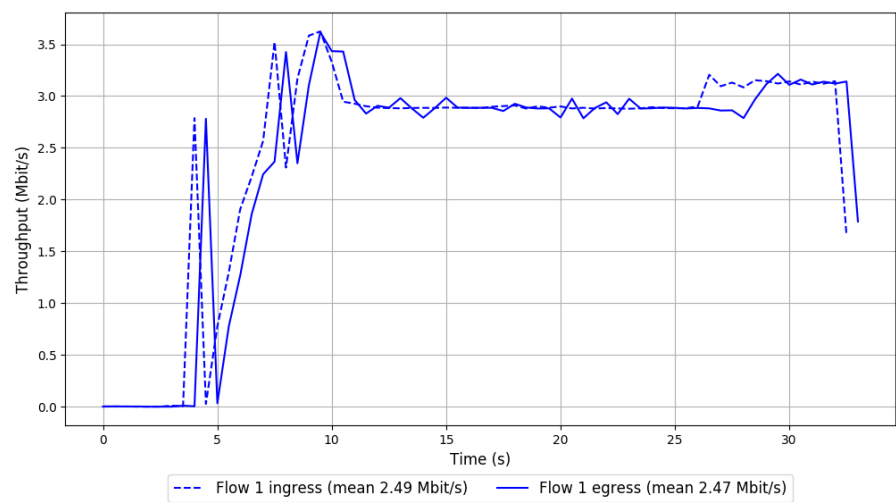
-- Flow 1:

Average throughput: 2.47 Mbit/s

95th percentile per-packet one-way delay: 32.009 ms

Loss rate: 0.84%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-05-30 09:39:18

End at: 2018-05-30 09:39:48

Local clock offset: 0.543 ms

Remote clock offset: 2.44 ms

Below is generated by plot.py at 2018-05-30 11:39:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 23.182 ms

Loss rate: 0.00%

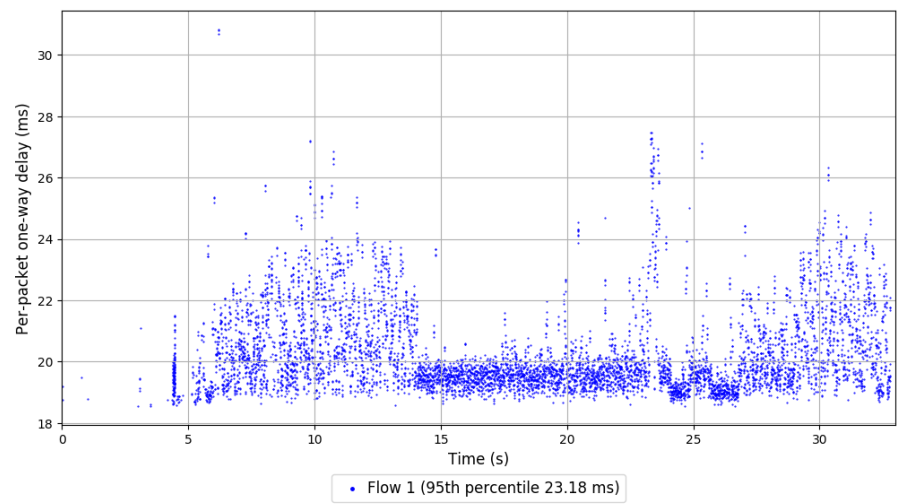
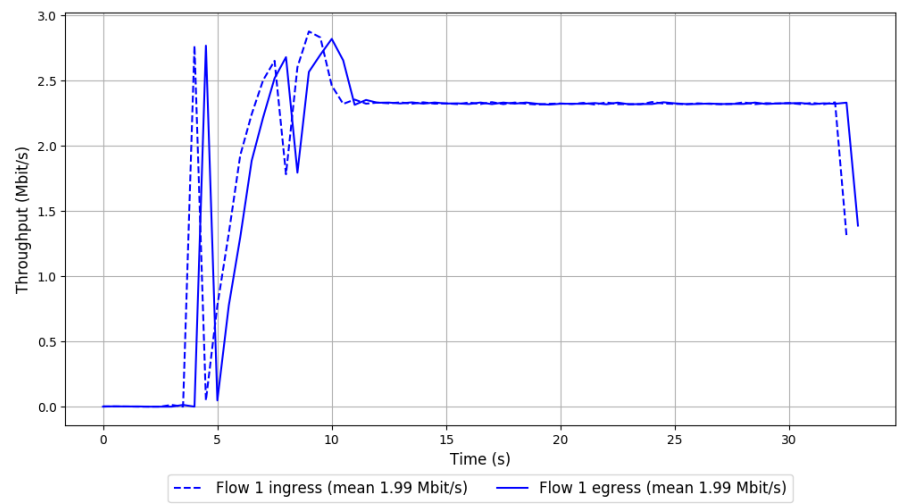
-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 23.182 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-05-30 09:57:23

End at: 2018-05-30 09:57:53

Local clock offset: -3.049 ms

Remote clock offset: 0.845 ms

Below is generated by plot.py at 2018-05-30 11:39:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.84 Mbit/s

95th percentile per-packet one-way delay: 26.330 ms

Loss rate: 1.76%

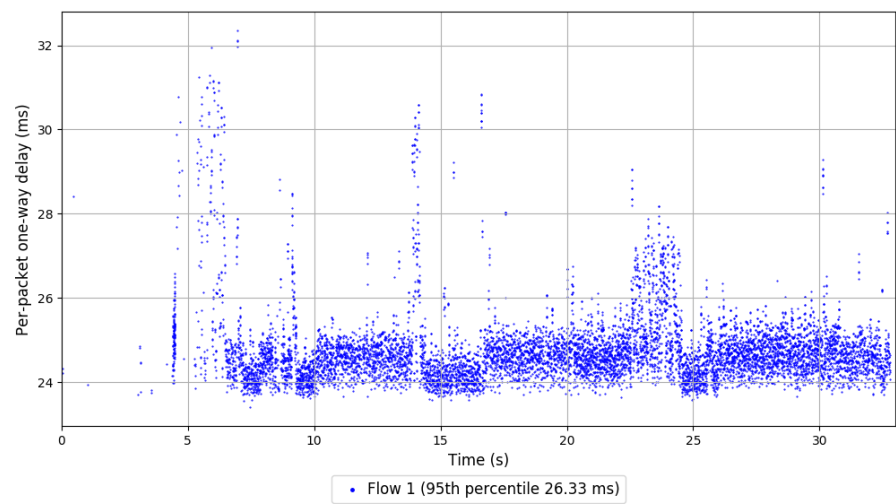
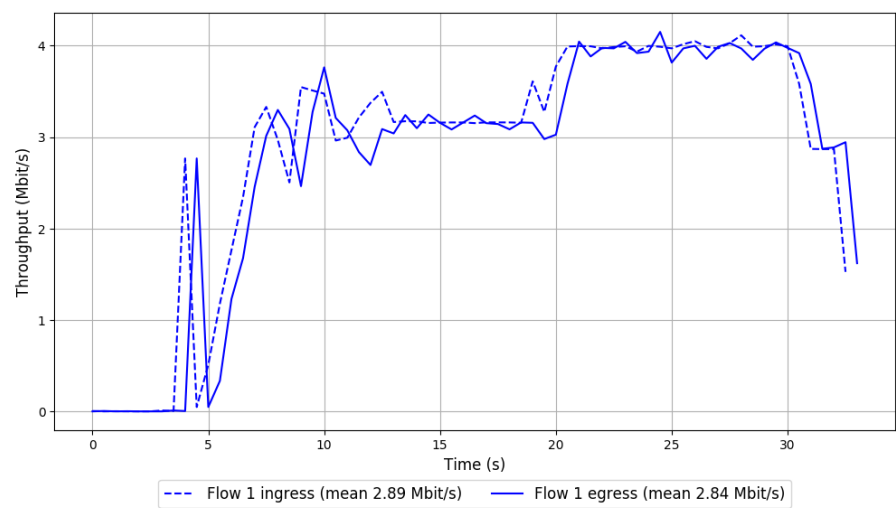
-- Flow 1:

Average throughput: 2.84 Mbit/s

95th percentile per-packet one-way delay: 26.330 ms

Loss rate: 1.76%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-05-30 10:15:21

End at: 2018-05-30 10:15:51

Local clock offset: -1.997 ms

Remote clock offset: 5.788 ms

Below is generated by plot.py at 2018-05-30 11:39:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 36.098 ms

Loss rate: 3.59%

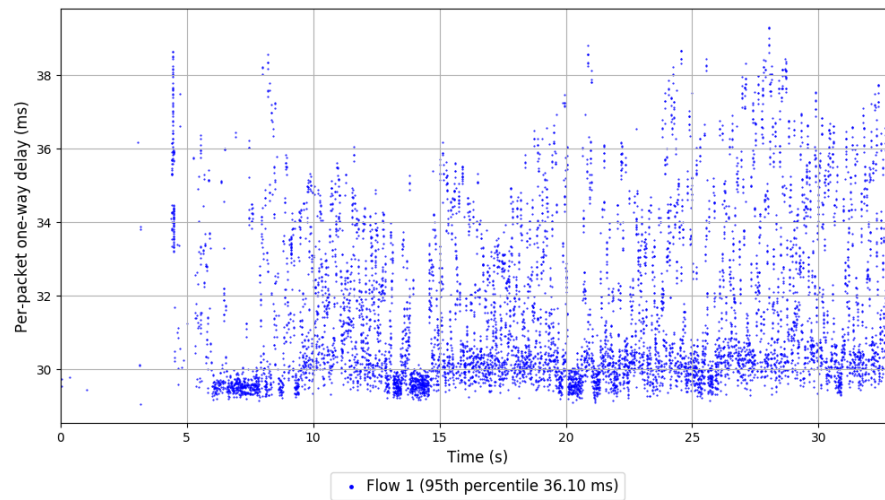
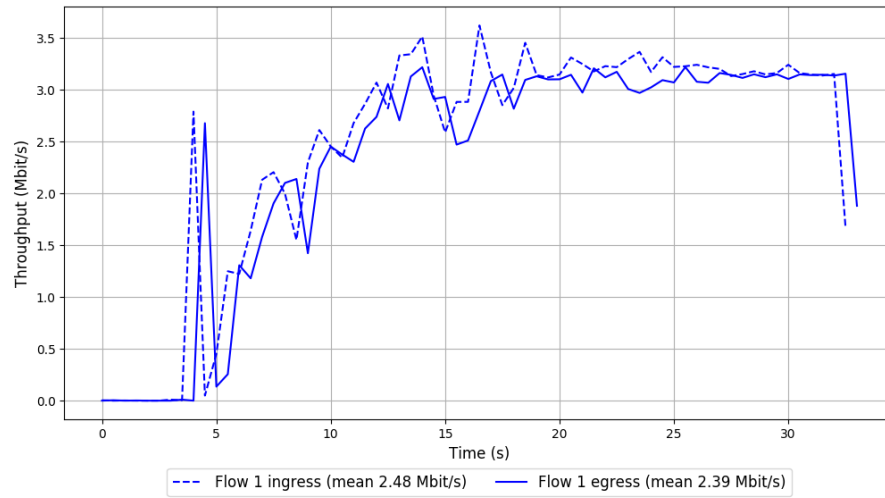
-- Flow 1:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 36.098 ms

Loss rate: 3.59%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-05-30 10:33:08

End at: 2018-05-30 10:33:38

Local clock offset: -3.275 ms

Remote clock offset: 1.626 ms

Below is generated by plot.py at 2018-05-30 11:39:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.52 Mbit/s

95th percentile per-packet one-way delay: 24.244 ms

Loss rate: 1.91%

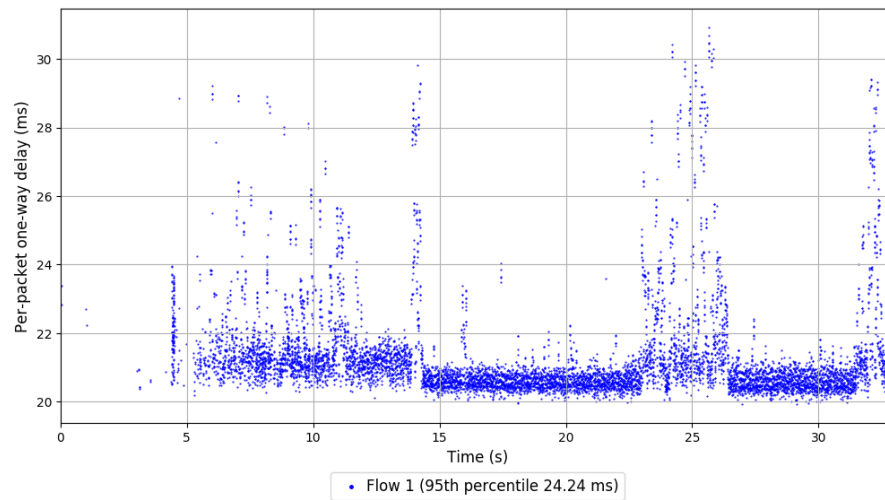
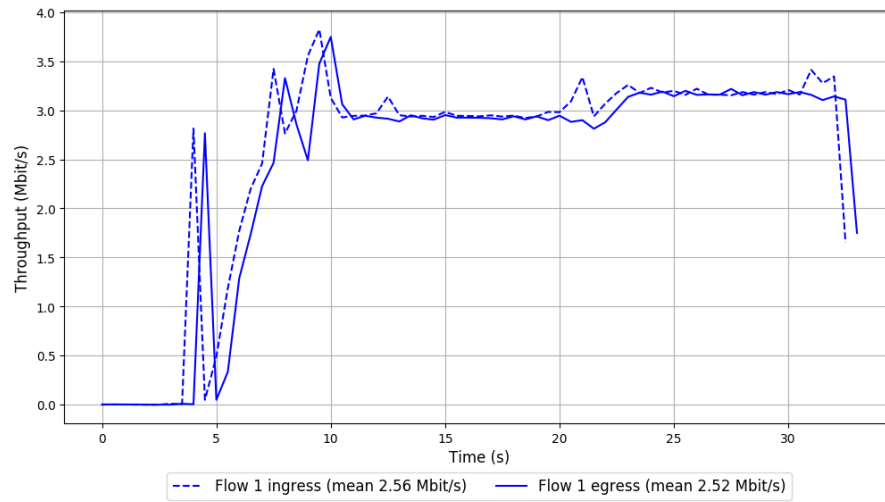
-- Flow 1:

Average throughput: 2.52 Mbit/s

95th percentile per-packet one-way delay: 24.244 ms

Loss rate: 1.91%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-05-30 10:51:01

End at: 2018-05-30 10:51:31

Local clock offset: -1.765 ms

Remote clock offset: 6.246 ms

Below is generated by plot.py at 2018-05-30 11:39:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 31.118 ms

Loss rate: 0.60%

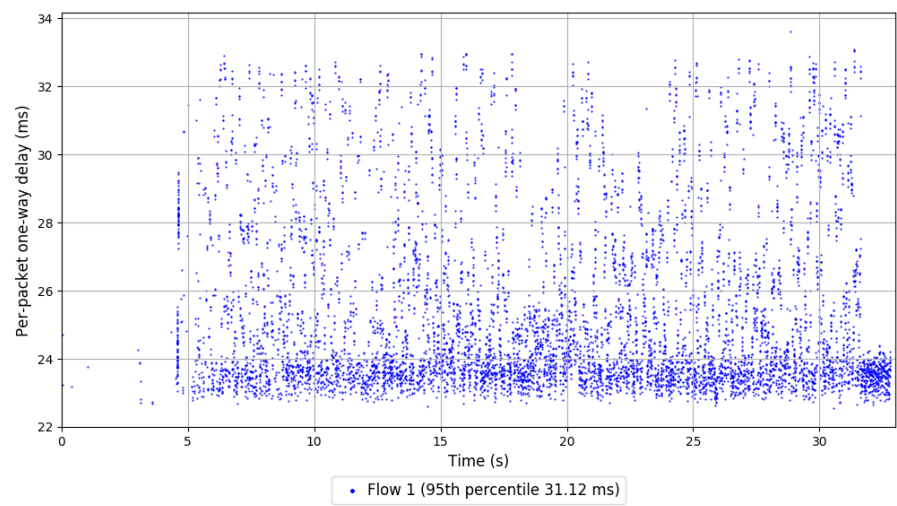
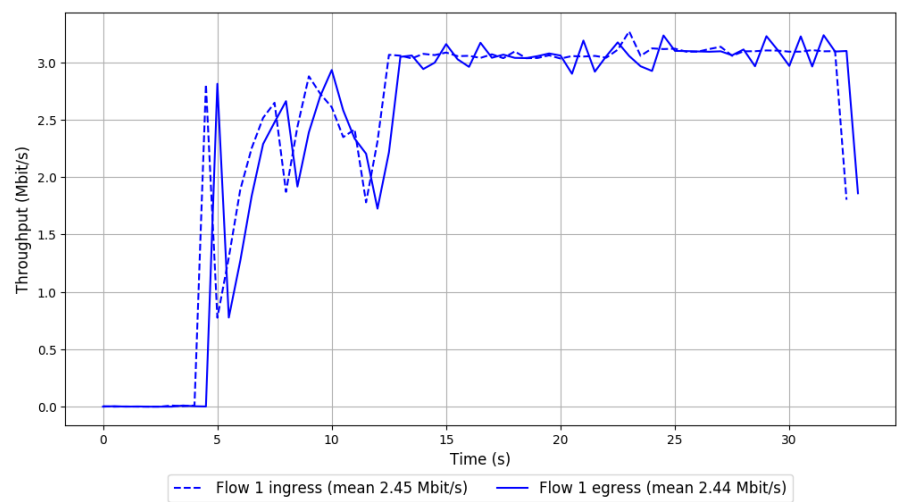
-- Flow 1:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 31.118 ms

Loss rate: 0.60%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-30 11:09:07

End at: 2018-05-30 11:09:37

Local clock offset: -0.878 ms

Remote clock offset: 3.895 ms

Below is generated by plot.py at 2018-05-30 11:39:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.92 Mbit/s

95th percentile per-packet one-way delay: 22.697 ms

Loss rate: 5.52%

-- Flow 1:

Average throughput: 2.92 Mbit/s

95th percentile per-packet one-way delay: 22.697 ms

Loss rate: 5.52%

Run 10: Report of WebRTC media — Data Link

