

## Pantheon Report

Generated at 2018-05-22 00:55:08 (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.

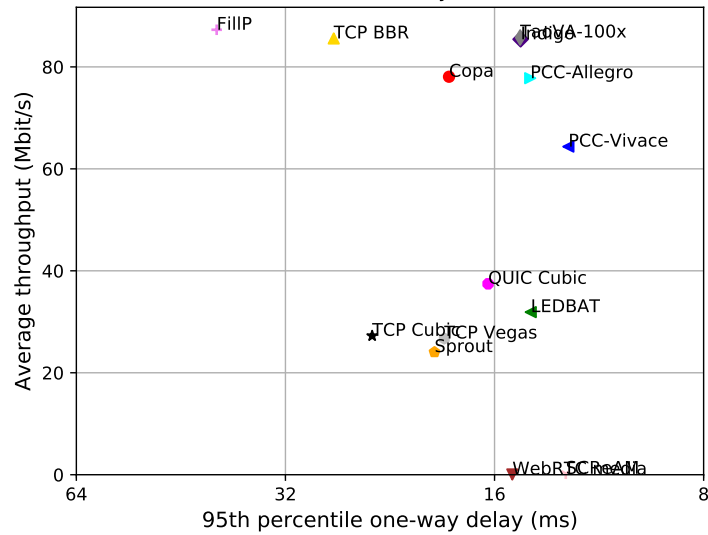
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against [nets.org.sg](http://nets.org.sg) and have been applied to correct the timestamps in logs.

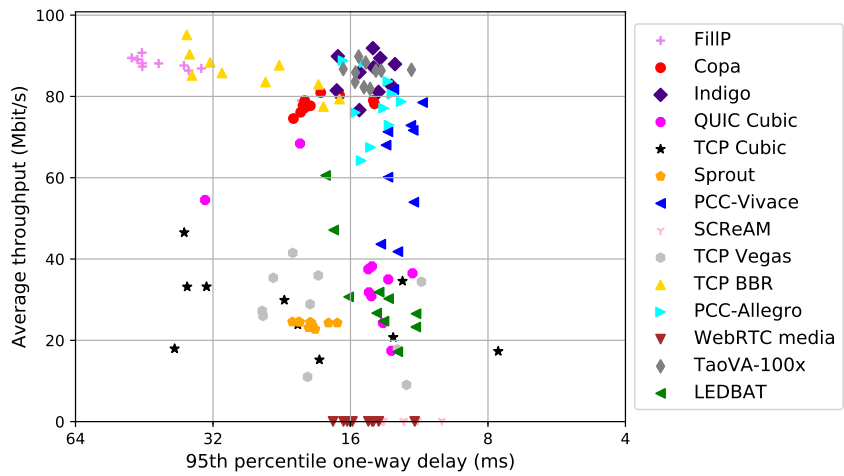
Git summary:

```
branch: master @ 2d1d4407e851ba626e5ca4626a306105793df686
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from AWS India 1 Ethernet to India Ethernet, 10 runs of 30s each per scheme  
(mean of all runs by scheme)



test from AWS India 1 Ethernet to India Ethernet, 10 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	85.58	27.27	8.03
Copa	10	78.07	18.61	8.78
TCP Cubic	10	27.24	24.00	0.33
FillP	10	87.28	40.19	9.42
Indigo	10	85.42	14.68	6.97
LEDBAT	10	31.89	14.19	0.21
PCC-Allegro	10	77.78	14.21	7.58
PCC-Expr	0	N/A	N/A	N/A
QUIC Cubic	10	37.45	16.34	1.08
SCReAM	10	0.18	12.63	0.18
Sprout	10	24.06	19.52	0.74
TaoVA-100x	10	85.77	14.70	7.96
TCP Vegas	10	26.72	18.90	0.58
Verus	0	N/A	N/A	N/A
PCC-Vivace	10	64.36	12.53	5.37
WebRTC media	10	0.05	15.08	0.26

Run 1: Statistics of TCP BBR

Start at: 2018-05-21 21:57:38

End at: 2018-05-21 21:58:08

Local clock offset: -2.076 ms

Remote clock offset: -1.49 ms

# Below is generated by plot.py at 2018-05-22 00:40:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.78 Mbit/s

95th percentile per-packet one-way delay: 30.581 ms

Loss rate: 8.71%

-- Flow 1:

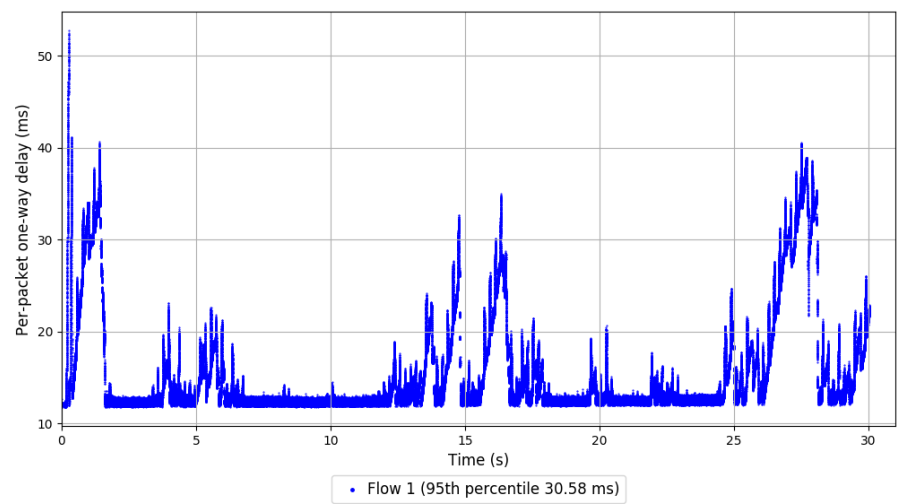
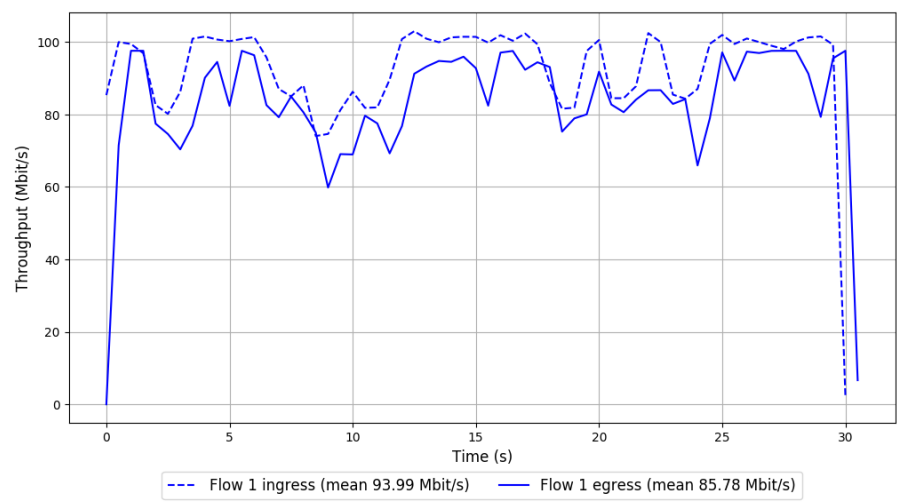
Average throughput: 85.78 Mbit/s

95th percentile per-packet one-way delay: 30.581 ms

Loss rate: 8.71%



Run 1: Report of TCP BBR — Data Link

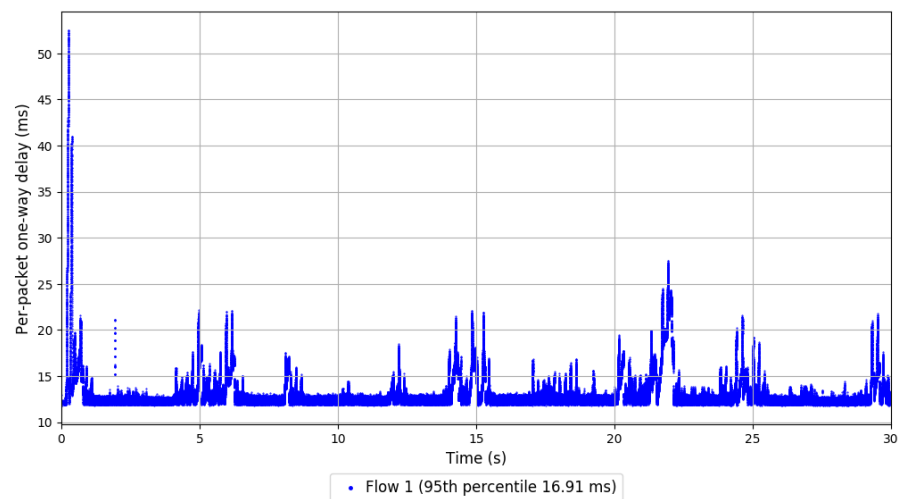
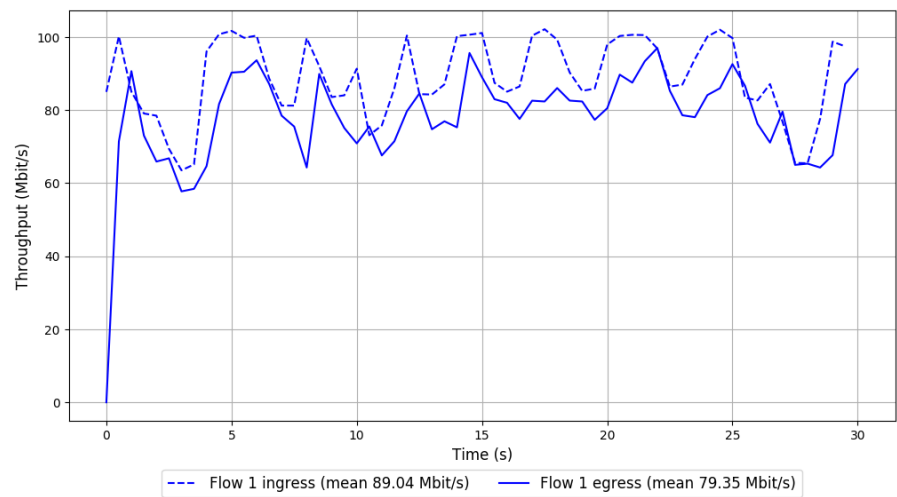


Run 2: Statistics of TCP BBR

Start at: 2018-05-21 22:15:25  
End at: 2018-05-21 22:15:55  
Local clock offset: 1.246 ms  
Remote clock offset: -1.182 ms

# Below is generated by plot.py at 2018-05-22 00:40:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 79.35 Mbit/s  
95th percentile per-packet one-way delay: 16.913 ms  
Loss rate: 10.88%  
-- Flow 1:  
Average throughput: 79.35 Mbit/s  
95th percentile per-packet one-way delay: 16.913 ms  
Loss rate: 10.88%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-05-21 22:33:10

End at: 2018-05-21 22:33:40

Local clock offset: 0.557 ms

Remote clock offset: -0.652 ms

# Below is generated by plot.py at 2018-05-22 00:40:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.36 Mbit/s

95th percentile per-packet one-way delay: 32.451 ms

Loss rate: 6.48%

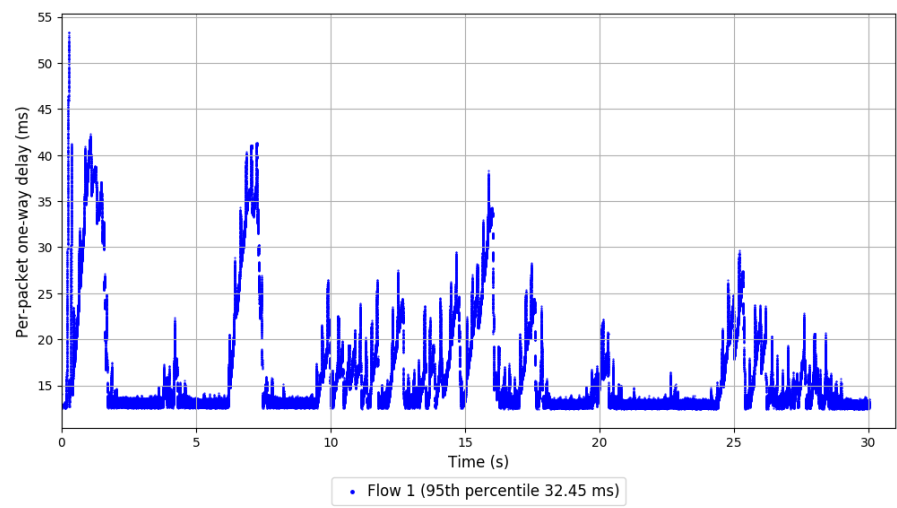
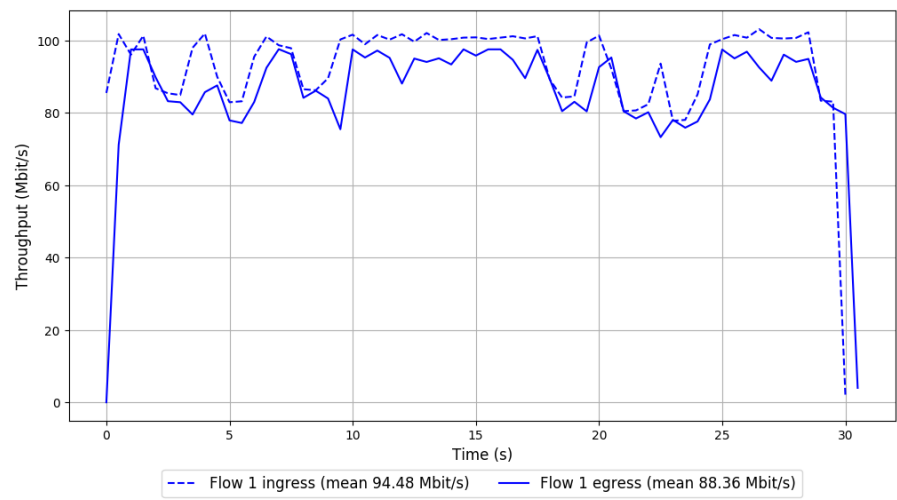
-- Flow 1:

Average throughput: 88.36 Mbit/s

95th percentile per-packet one-way delay: 32.451 ms

Loss rate: 6.48%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-05-21 22:51:01

End at: 2018-05-21 22:51:31

Local clock offset: -1.123 ms

Remote clock offset: 1.857 ms

# Below is generated by plot.py at 2018-05-22 00:40:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.53 Mbit/s

95th percentile per-packet one-way delay: 24.553 ms

Loss rate: 8.88%

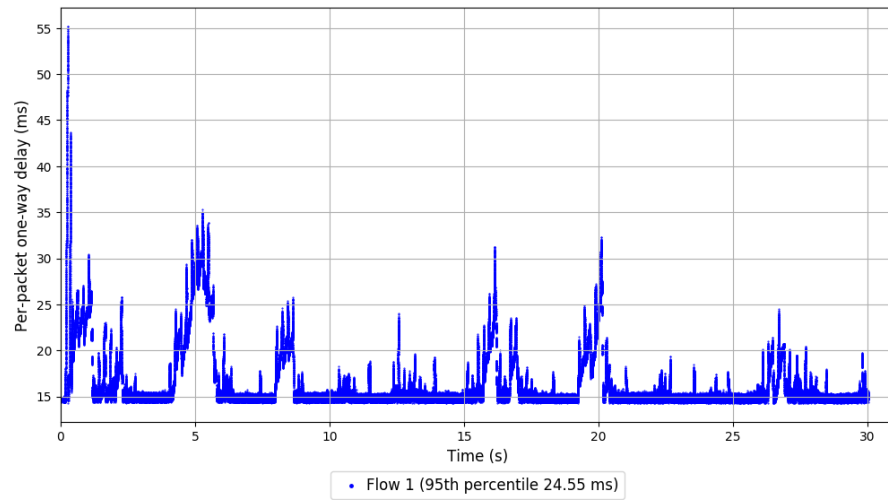
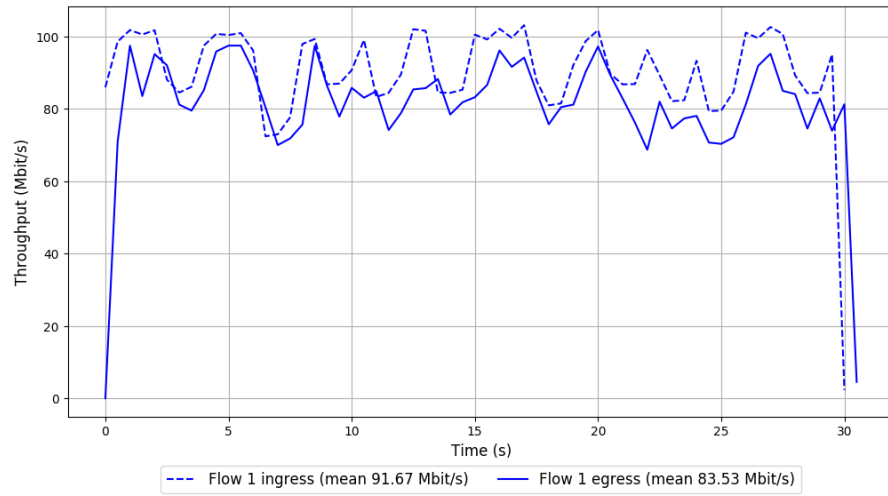
-- Flow 1:

Average throughput: 83.53 Mbit/s

95th percentile per-packet one-way delay: 24.553 ms

Loss rate: 8.88%

#### Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-05-21 23:08:46

End at: 2018-05-21 23:09:16

Local clock offset: -3.916 ms

Remote clock offset: -0.9 ms

# Below is generated by plot.py at 2018-05-22 00:40:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.96 Mbit/s

95th percentile per-packet one-way delay: 18.801 ms

Loss rate: 10.35%

-- Flow 1:

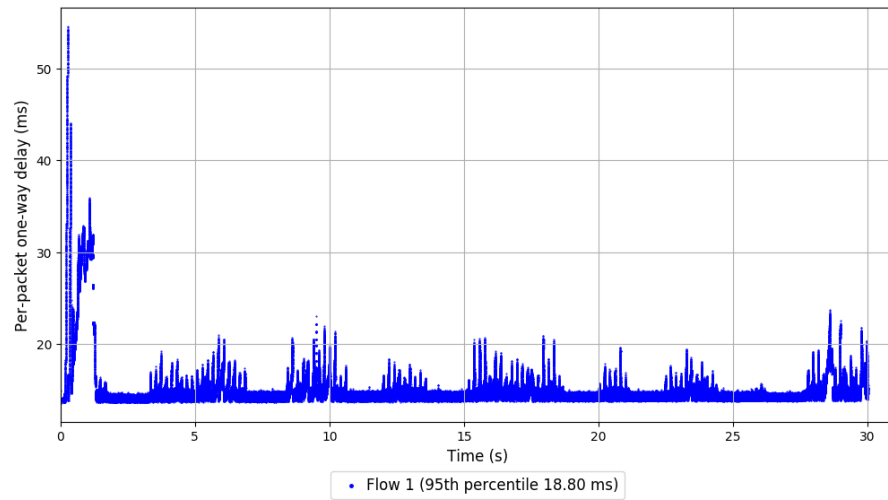
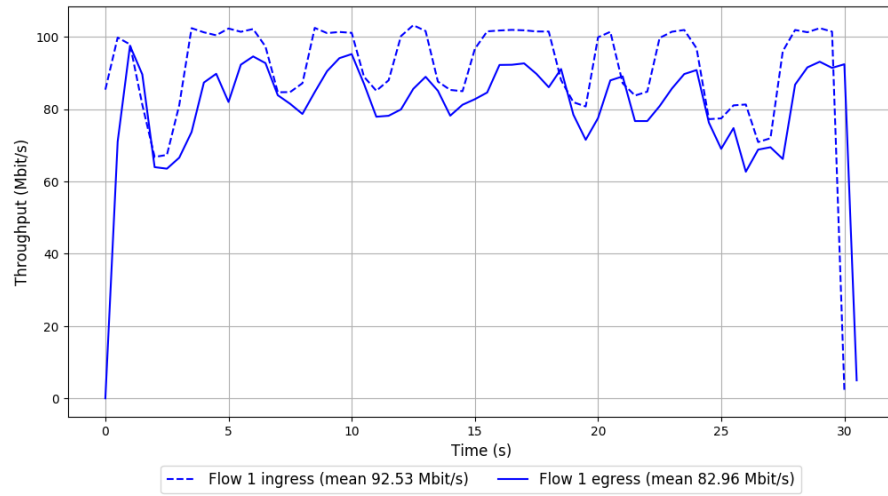
Average throughput: 82.96 Mbit/s

95th percentile per-packet one-way delay: 18.801 ms

Loss rate: 10.35%



### Run 5: Report of TCP BBR — Data Link

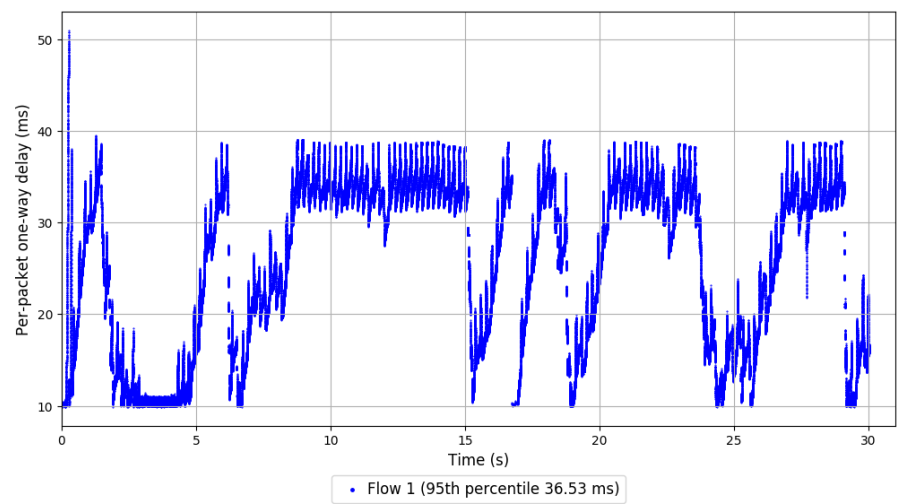
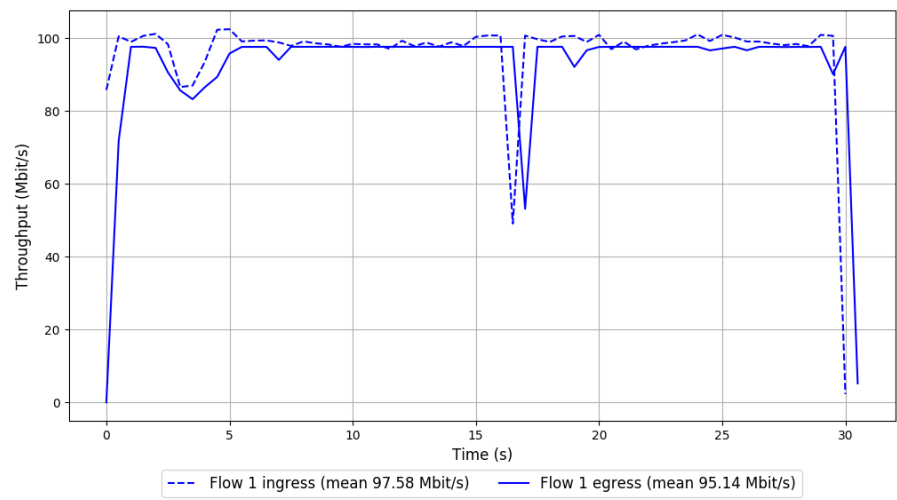


Run 6: Statistics of TCP BBR

Start at: 2018-05-21 23:26:35  
End at: 2018-05-21 23:27:05  
Local clock offset: -2.831 ms  
Remote clock offset: -5.386 ms

# Below is generated by plot.py at 2018-05-22 00:40:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.14 Mbit/s  
95th percentile per-packet one-way delay: 36.528 ms  
Loss rate: 2.48%  
-- Flow 1:  
Average throughput: 95.14 Mbit/s  
95th percentile per-packet one-way delay: 36.528 ms  
Loss rate: 2.48%

Run 6: Report of TCP BBR — Data Link

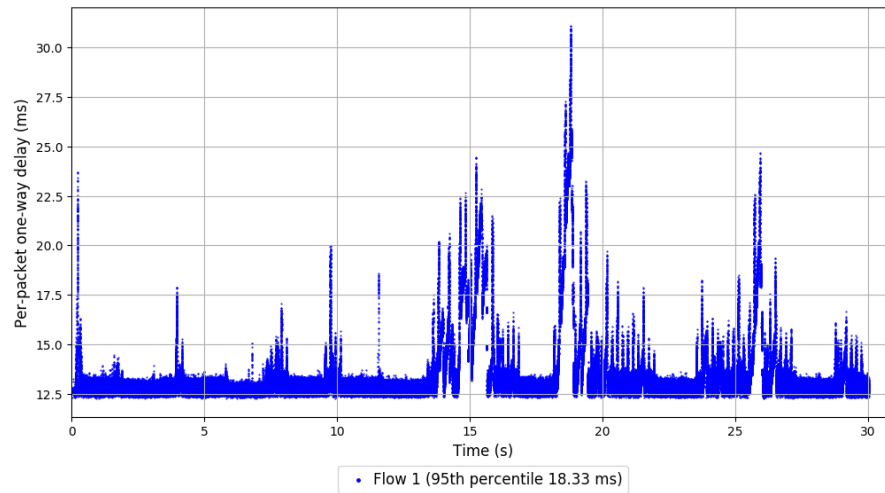
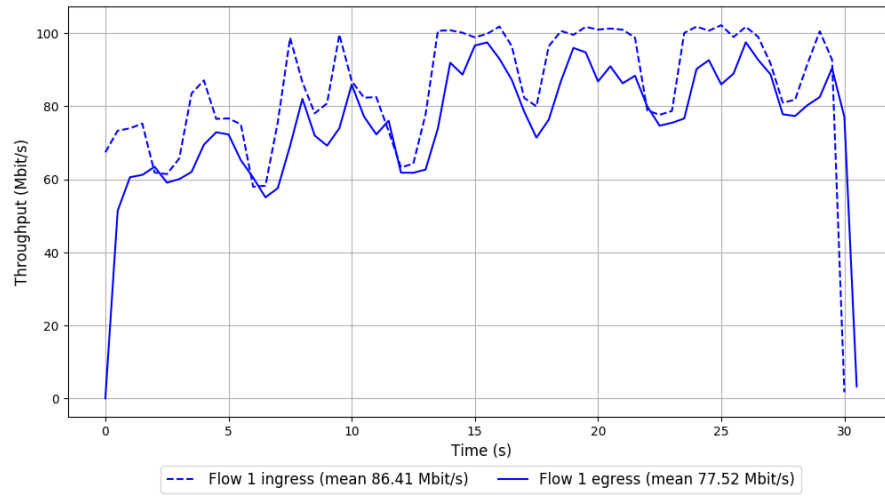


Run 7: Statistics of TCP BBR

Start at: 2018-05-21 23:44:27  
End at: 2018-05-21 23:44:57  
Local clock offset: -6.522 ms  
Remote clock offset: -6.774 ms

# Below is generated by plot.py at 2018-05-22 00:40:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 77.52 Mbit/s  
95th percentile per-packet one-way delay: 18.334 ms  
Loss rate: 10.29%  
-- Flow 1:  
Average throughput: 77.52 Mbit/s  
95th percentile per-packet one-way delay: 18.334 ms  
Loss rate: 10.29%

## Run 7: Report of TCP BBR — Data Link

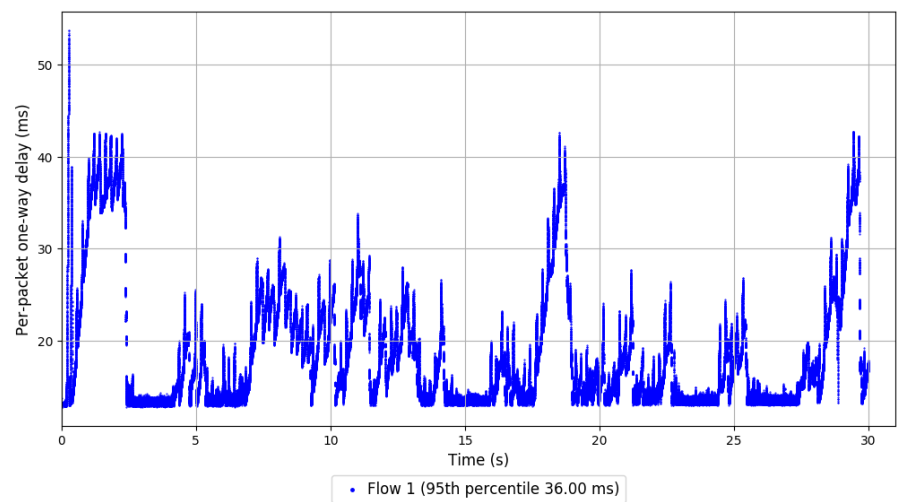
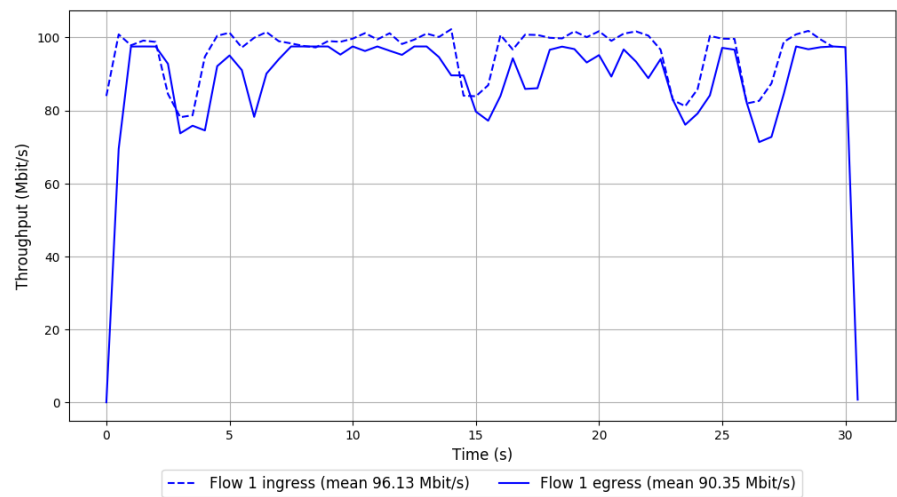


Run 8: Statistics of TCP BBR

Start at: 2018-05-22 00:02:09  
End at: 2018-05-22 00:02:39  
Local clock offset: -5.579 ms  
Remote clock offset: -8.015 ms

# Below is generated by plot.py at 2018-05-22 00:40:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.35 Mbit/s  
95th percentile per-packet one-way delay: 36.002 ms  
Loss rate: 6.00%  
-- Flow 1:  
Average throughput: 90.35 Mbit/s  
95th percentile per-packet one-way delay: 36.002 ms  
Loss rate: 6.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-05-22 00:19:59

End at: 2018-05-22 00:20:29

Local clock offset: -3.05 ms

Remote clock offset: -2.315 ms

# Below is generated by plot.py at 2018-05-22 00:41:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.16 Mbit/s

95th percentile per-packet one-way delay: 35.584 ms

Loss rate: 7.74%

-- Flow 1:

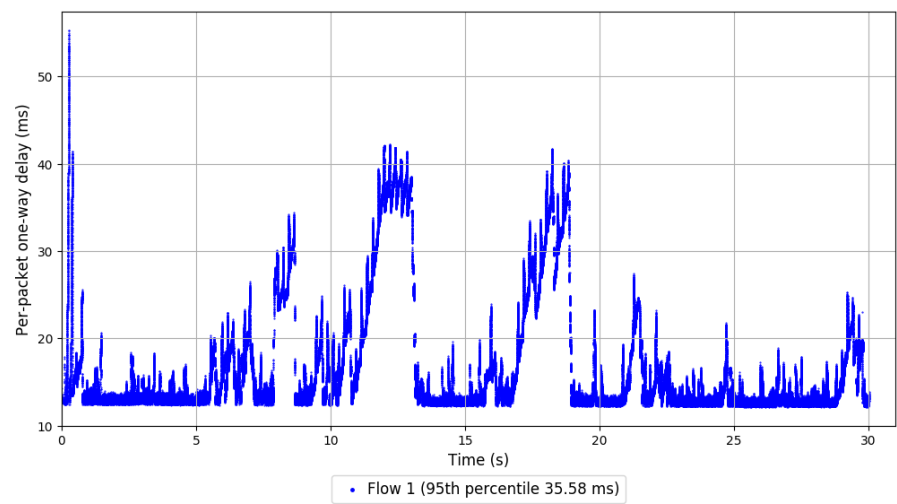
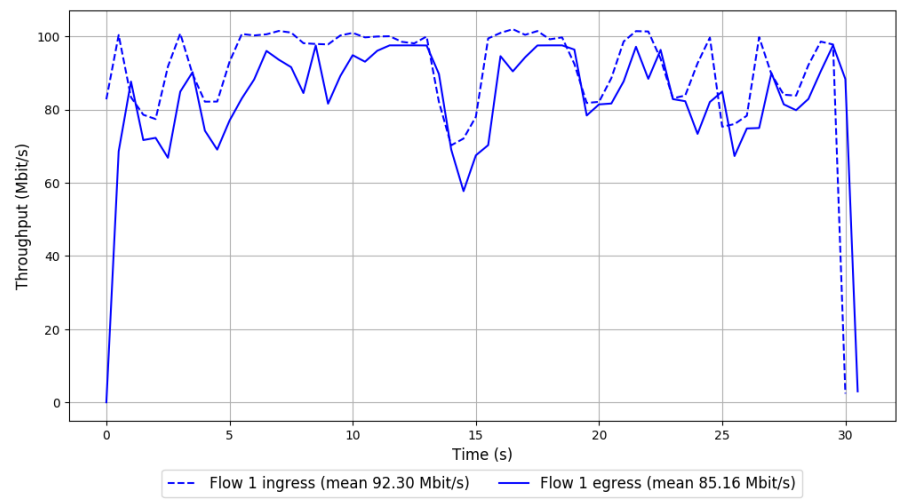
Average throughput: 85.16 Mbit/s

95th percentile per-packet one-way delay: 35.584 ms

Loss rate: 7.74%



Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-05-22 00:37:58

End at: 2018-05-22 00:38:28

Local clock offset: -3.054 ms

Remote clock offset: 3.245 ms

# Below is generated by plot.py at 2018-05-22 00:41:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.66 Mbit/s

95th percentile per-packet one-way delay: 22.919 ms

Loss rate: 8.52%

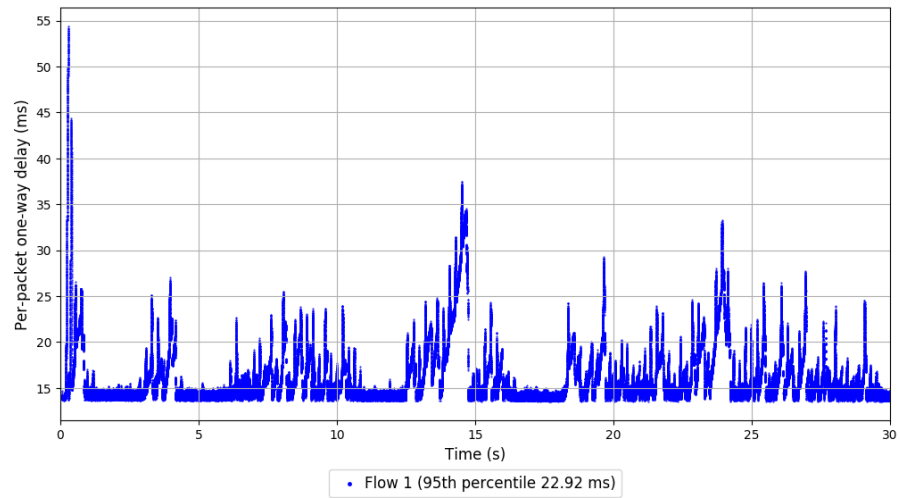
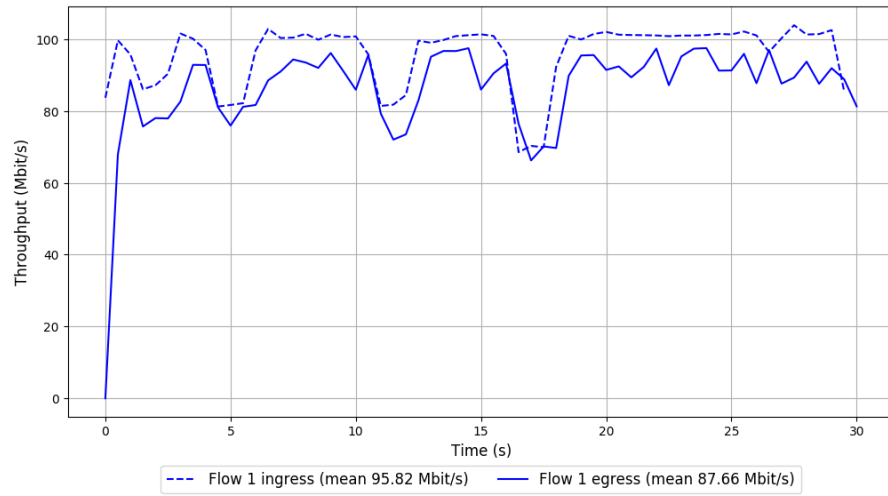
-- Flow 1:

Average throughput: 87.66 Mbit/s

95th percentile per-packet one-way delay: 22.919 ms

Loss rate: 8.52%

### Run 10: Report of TCP BBR — Data Link

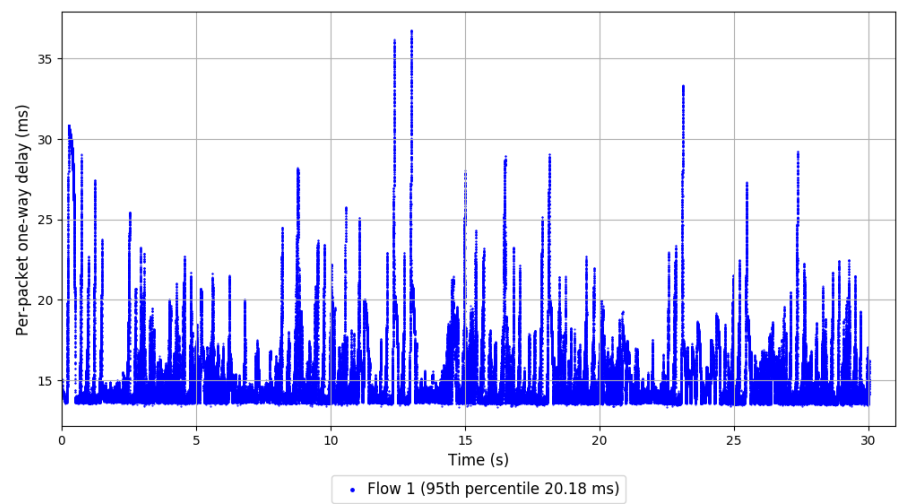
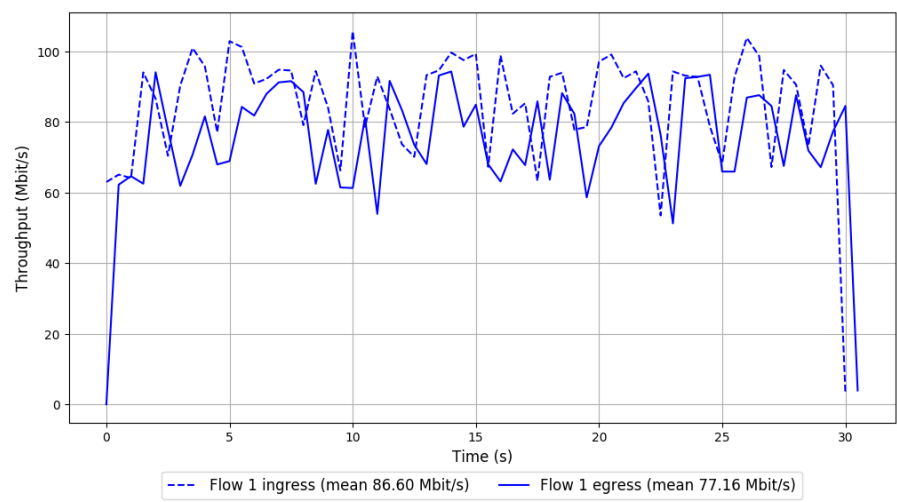


Run 1: Statistics of Copa

Start at: 2018-05-21 21:47:31  
End at: 2018-05-21 21:48:01  
Local clock offset: -3.286 ms  
Remote clock offset: -1.228 ms

# Below is generated by plot.py at 2018-05-22 00:42:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 77.16 Mbit/s  
95th percentile per-packet one-way delay: 20.175 ms  
Loss rate: 10.91%  
-- Flow 1:  
Average throughput: 77.16 Mbit/s  
95th percentile per-packet one-way delay: 20.175 ms  
Loss rate: 10.91%

Run 1: Report of Copa — Data Link

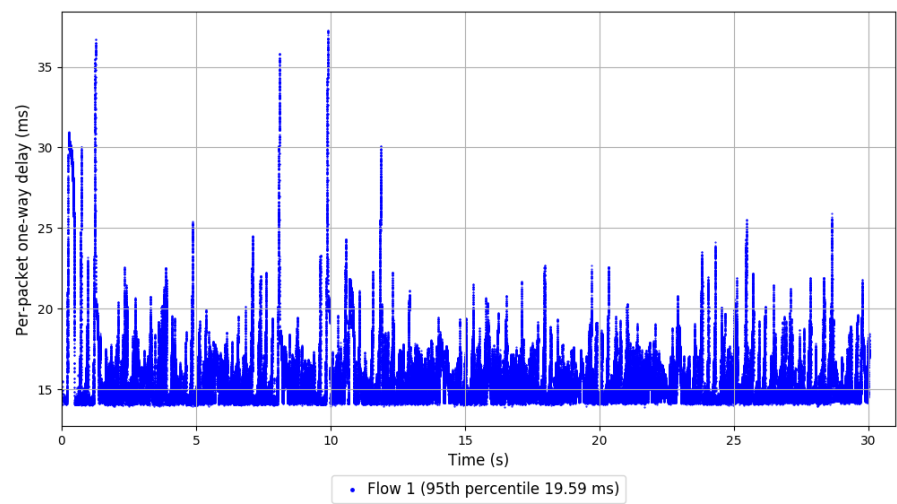
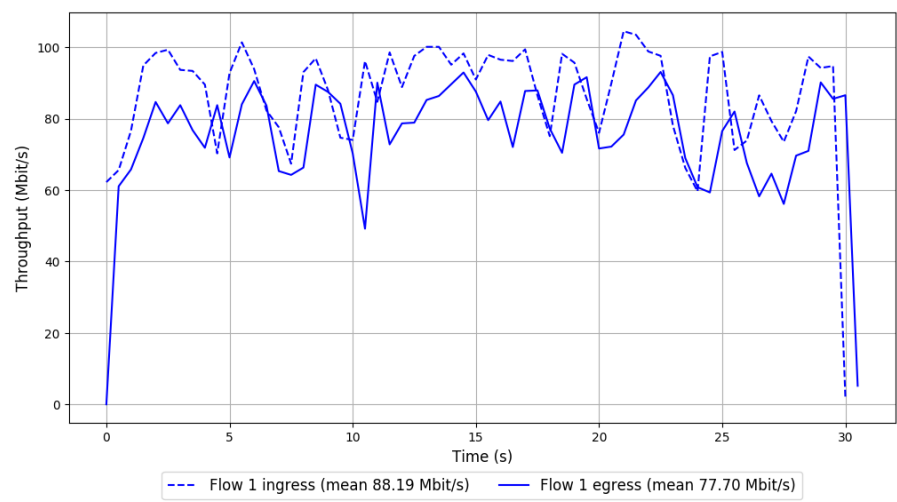


Run 2: Statistics of Copa

Start at: 2018-05-21 22:05:23  
End at: 2018-05-21 22:05:53  
Local clock offset: -2.333 ms  
Remote clock offset: -1.812 ms

# Below is generated by plot.py at 2018-05-22 00:42:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 77.70 Mbit/s  
95th percentile per-packet one-way delay: 19.587 ms  
Loss rate: 11.89%  
-- Flow 1:  
Average throughput: 77.70 Mbit/s  
95th percentile per-packet one-way delay: 19.587 ms  
Loss rate: 11.89%

Run 2: Report of Copa — Data Link



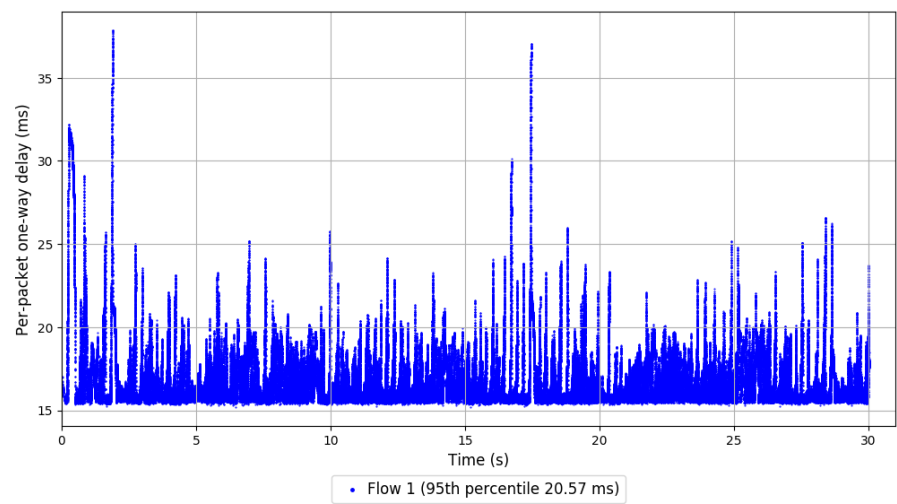
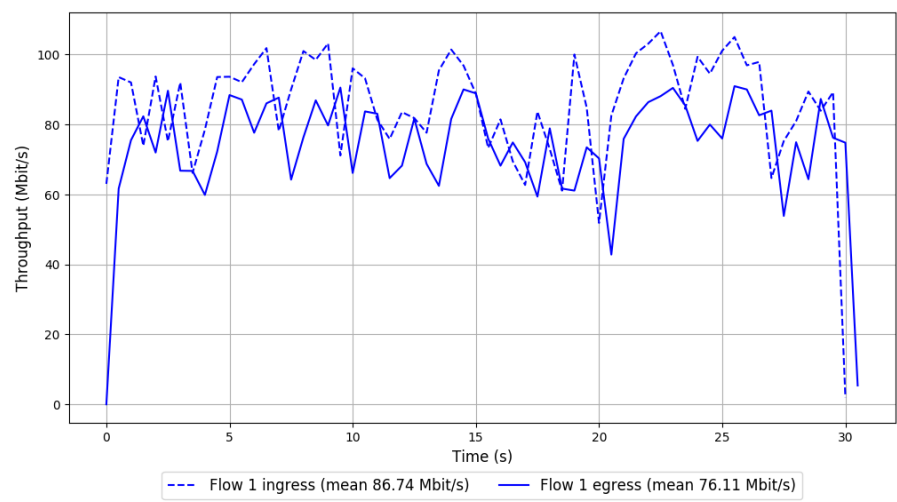
Run 3: Statistics of Copa

Start at: 2018-05-21 22:23:12  
End at: 2018-05-21 22:23:42  
Local clock offset: -2.626 ms  
Remote clock offset: -1.448 ms

# Below is generated by plot.py at 2018-05-22 00:42:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 76.11 Mbit/s  
95th percentile per-packet one-way delay: 20.573 ms  
Loss rate: 12.26%  
-- Flow 1:  
Average throughput: 76.11 Mbit/s  
95th percentile per-packet one-way delay: 20.573 ms  
Loss rate: 12.26%



Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-05-21 22:40:54

End at: 2018-05-21 22:41:24

Local clock offset: 1.217 ms

Remote clock offset: 0.568 ms

# Below is generated by plot.py at 2018-05-22 00:42:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.28 Mbit/s

95th percentile per-packet one-way delay: 16.899 ms

Loss rate: 9.38%

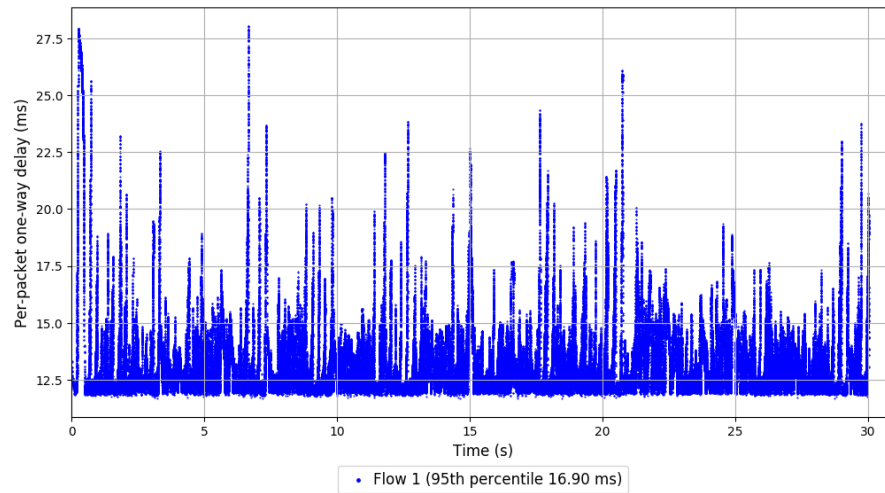
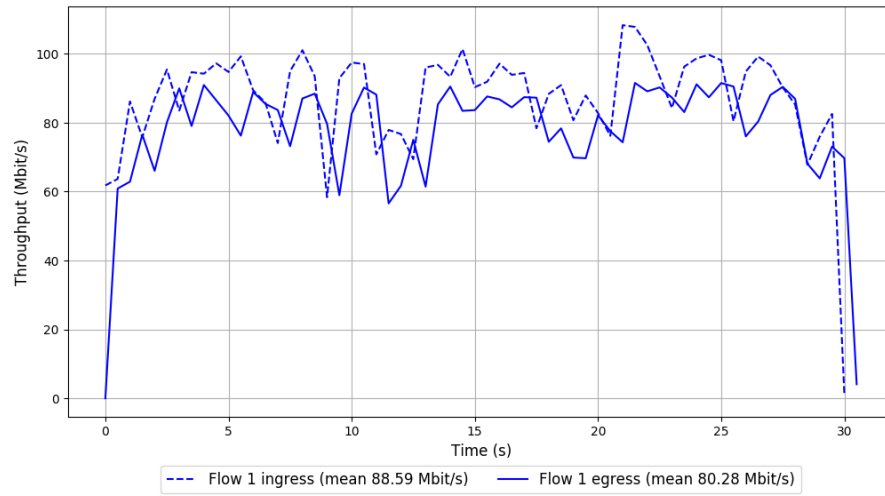
-- Flow 1:

Average throughput: 80.28 Mbit/s

95th percentile per-packet one-way delay: 16.899 ms

Loss rate: 9.38%

#### Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-05-21 22:58:47

End at: 2018-05-21 22:59:17

Local clock offset: -1.816 ms

Remote clock offset: 1.629 ms

# Below is generated by plot.py at 2018-05-22 00:42:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.56 Mbit/s

95th percentile per-packet one-way delay: 21.335 ms

Loss rate: 6.28%

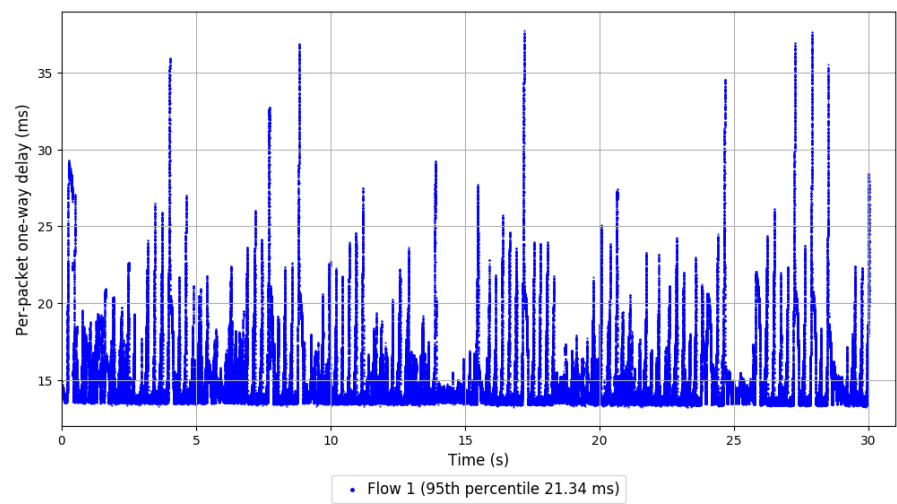
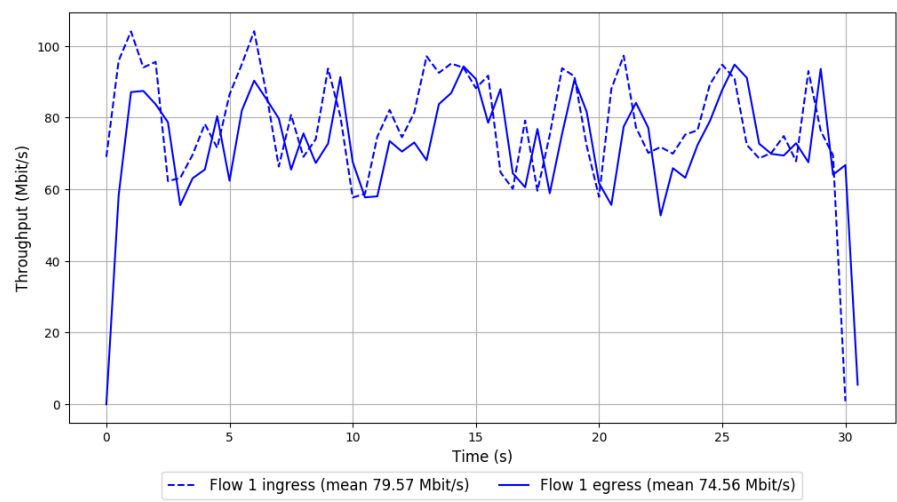
-- Flow 1:

Average throughput: 74.56 Mbit/s

95th percentile per-packet one-way delay: 21.335 ms

Loss rate: 6.28%

Run 5: Report of Copa — Data Link

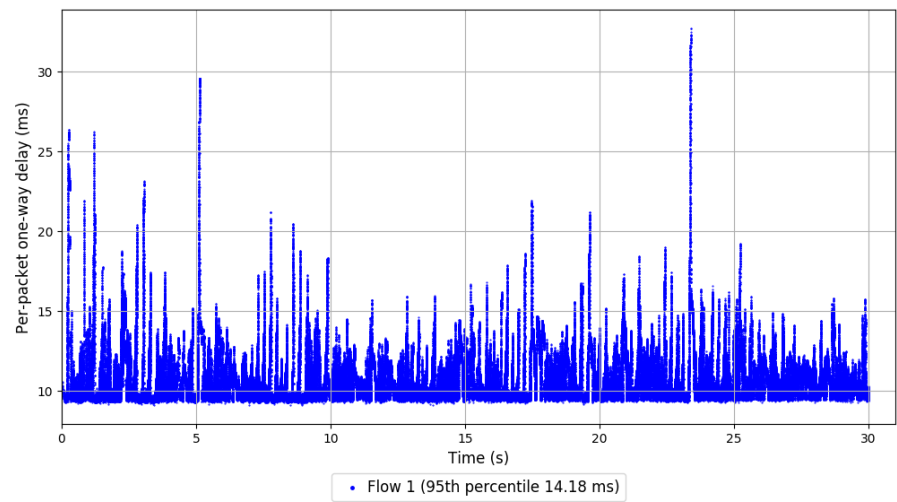
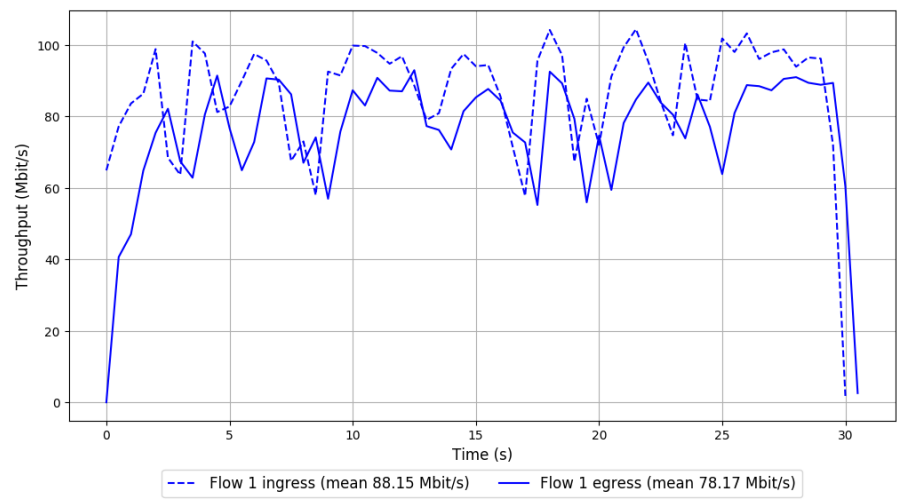


Run 6: Statistics of Copa

Start at: 2018-05-21 23:16:29  
End at: 2018-05-21 23:16:59  
Local clock offset: -1.439 ms  
Remote clock offset: -4.064 ms

# Below is generated by plot.py at 2018-05-22 00:42:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 78.17 Mbit/s  
95th percentile per-packet one-way delay: 14.177 ms  
Loss rate: 11.33%  
-- Flow 1:  
Average throughput: 78.17 Mbit/s  
95th percentile per-packet one-way delay: 14.177 ms  
Loss rate: 11.33%

Run 6: Report of Copa — Data Link



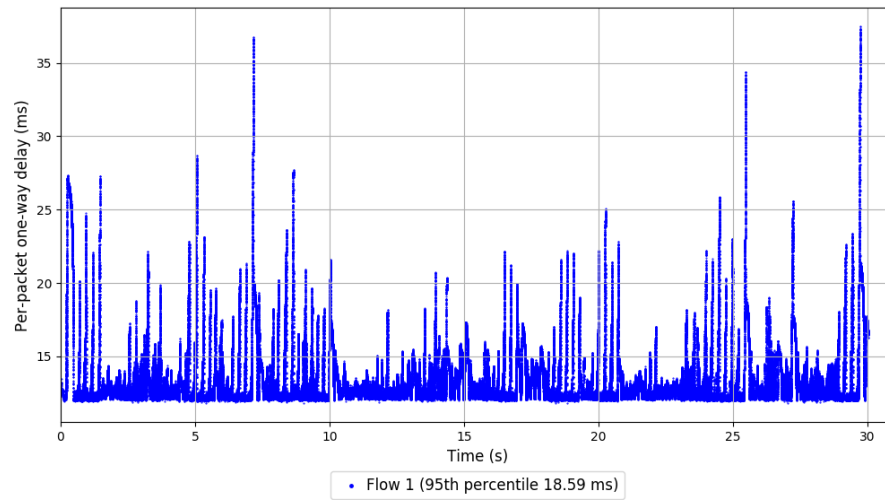
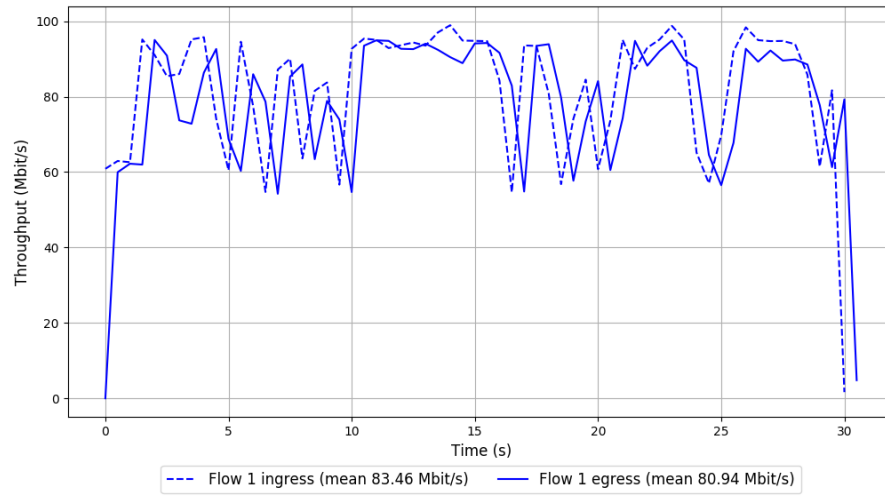
Run 7: Statistics of Copa

Start at: 2018-05-21 23:34:22  
End at: 2018-05-21 23:34:52  
Local clock offset: -6.313 ms  
Remote clock offset: -6.806 ms

# Below is generated by plot.py at 2018-05-22 00:43:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 80.94 Mbit/s  
95th percentile per-packet one-way delay: 18.590 ms  
Loss rate: 3.00%  
-- Flow 1:  
Average throughput: 80.94 Mbit/s  
95th percentile per-packet one-way delay: 18.590 ms  
Loss rate: 3.00%



### Run 7: Report of Copa — Data Link

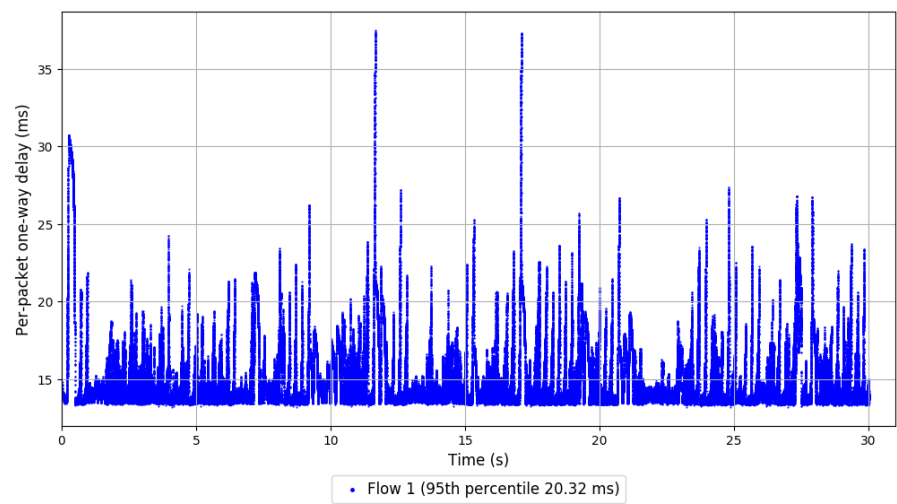
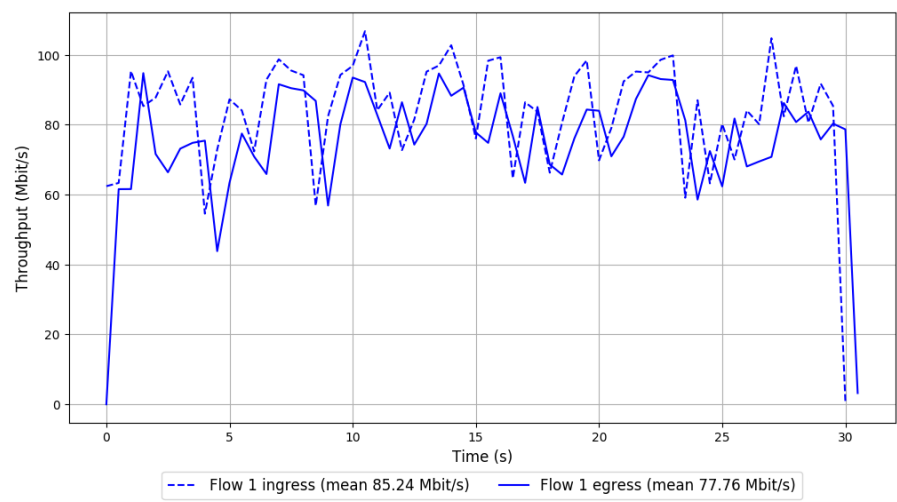


Run 8: Statistics of Copa

Start at: 2018-05-21 23:52:10  
End at: 2018-05-21 23:52:40  
Local clock offset: -8.023 ms  
Remote clock offset: -7.182 ms

# Below is generated by plot.py at 2018-05-22 00:43:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 77.76 Mbit/s  
95th percentile per-packet one-way delay: 20.323 ms  
Loss rate: 8.78%  
-- Flow 1:  
Average throughput: 77.76 Mbit/s  
95th percentile per-packet one-way delay: 20.323 ms  
Loss rate: 8.78%

Run 8: Report of Copa — Data Link

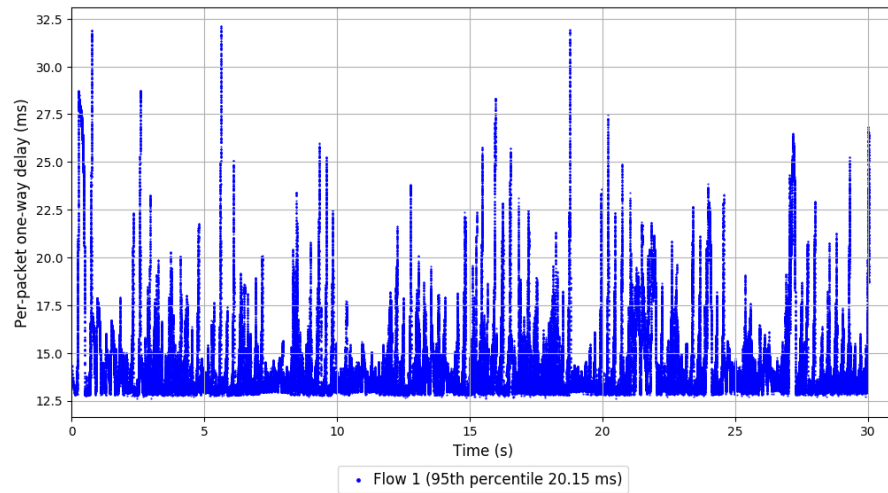
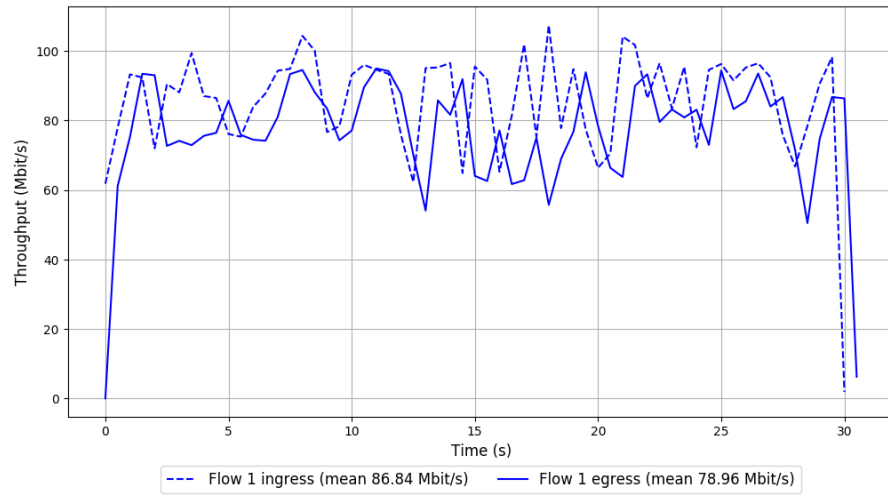


Run 9: Statistics of Copa

Start at: 2018-05-22 00:09:58  
End at: 2018-05-22 00:10:28  
Local clock offset: -4.501 ms  
Remote clock offset: -8.936 ms

# Below is generated by plot.py at 2018-05-22 00:44:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 78.96 Mbit/s  
95th percentile per-packet one-way delay: 20.148 ms  
Loss rate: 9.04%  
-- Flow 1:  
Average throughput: 78.96 Mbit/s  
95th percentile per-packet one-way delay: 20.148 ms  
Loss rate: 9.04%

### Run 9: Report of Copa — Data Link

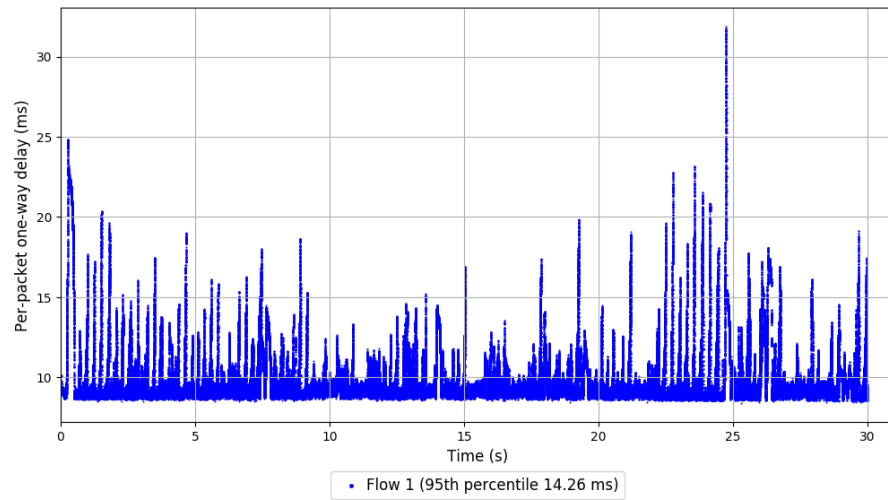
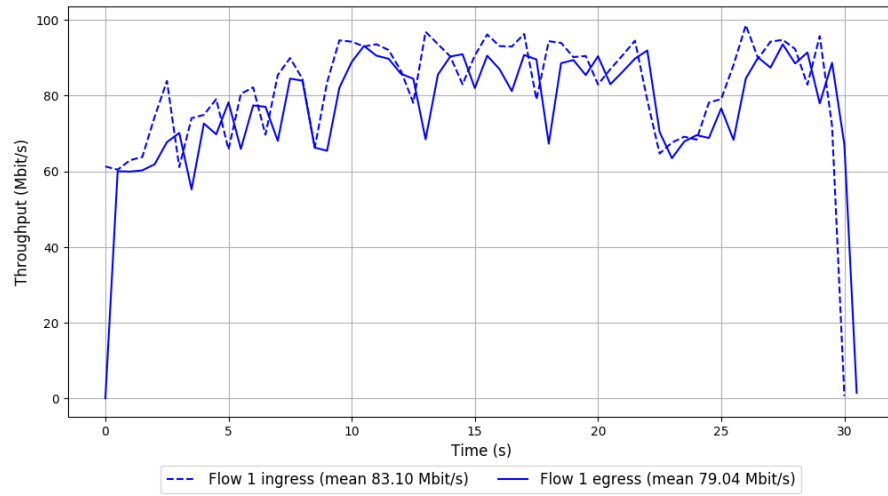


Run 10: Statistics of Copa

Start at: 2018-05-22 00:27:46  
End at: 2018-05-22 00:28:16  
Local clock offset: -0.958 ms  
Remote clock offset: -1.873 ms

# Below is generated by plot.py at 2018-05-22 00:44:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 79.04 Mbit/s  
95th percentile per-packet one-way delay: 14.256 ms  
Loss rate: 4.88%  
-- Flow 1:  
Average throughput: 79.04 Mbit/s  
95th percentile per-packet one-way delay: 14.256 ms  
Loss rate: 4.88%

# Run 10: Report of Copa — Data Link



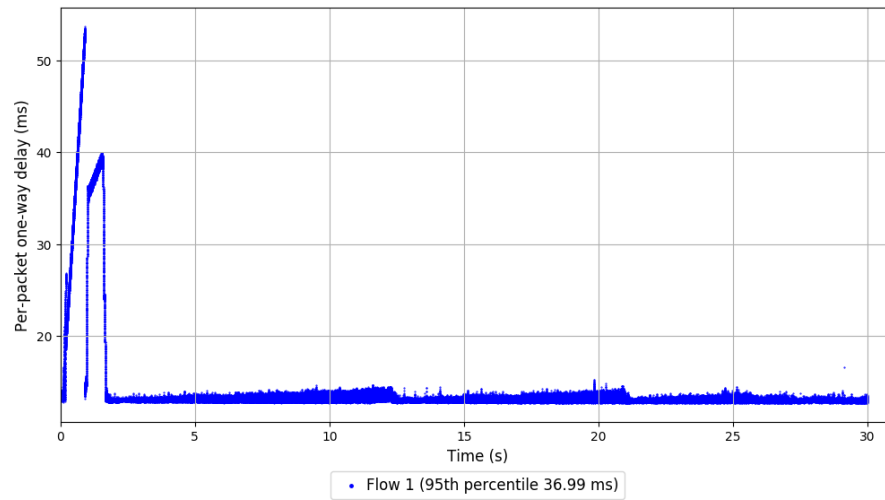
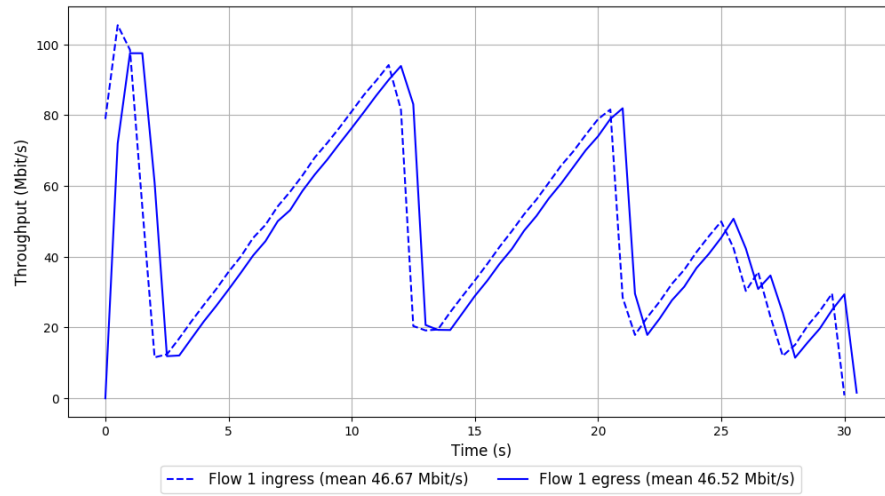
Run 1: Statistics of TCP Cubic

Start at: 2018-05-21 21:52:04  
End at: 2018-05-21 21:52:34  
Local clock offset: -3.215 ms  
Remote clock offset: -1.326 ms

# Below is generated by plot.py at 2018-05-22 00:44:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 46.52 Mbit/s  
95th percentile per-packet one-way delay: 36.992 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 46.52 Mbit/s  
95th percentile per-packet one-way delay: 36.992 ms  
Loss rate: 0.33%



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

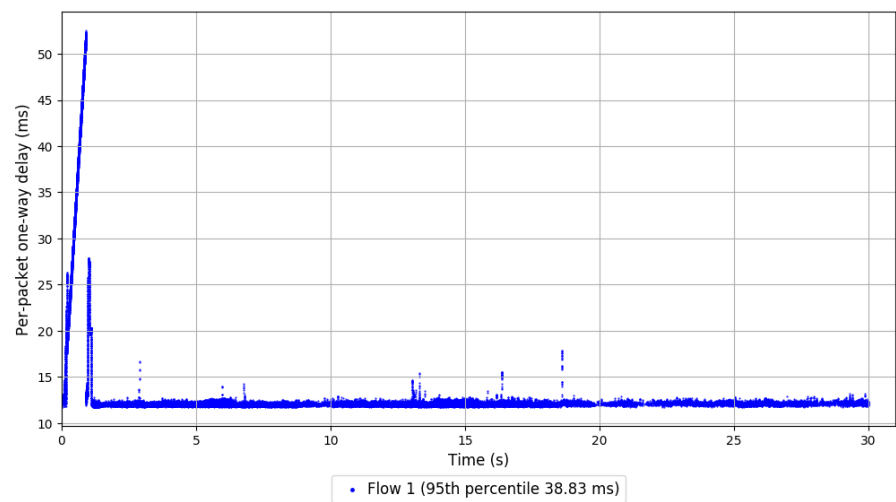
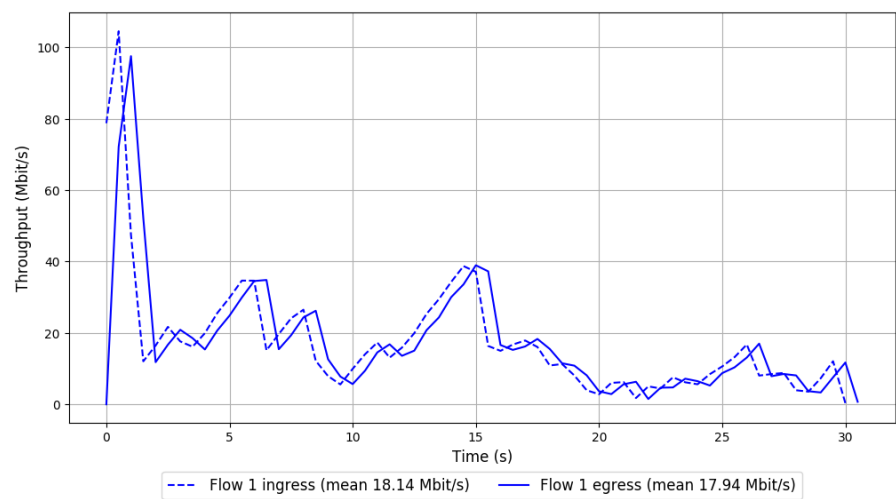


Run 2: Statistics of TCP Cubic

Start at: 2018-05-21 22:09:59  
End at: 2018-05-21 22:10:29  
Local clock offset: 0.786 ms  
Remote clock offset: -1.535 ms

# Below is generated by plot.py at 2018-05-22 00:44:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 17.94 Mbit/s  
95th percentile per-packet one-way delay: 38.833 ms  
Loss rate: 1.10%  
-- Flow 1:  
Average throughput: 17.94 Mbit/s  
95th percentile per-packet one-way delay: 38.833 ms  
Loss rate: 1.10%

Run 2: Report of TCP Cubic — Data Link

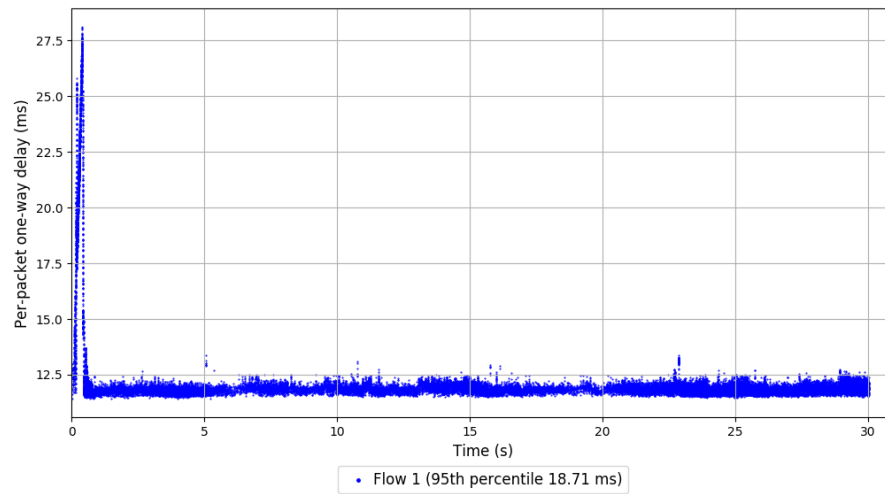
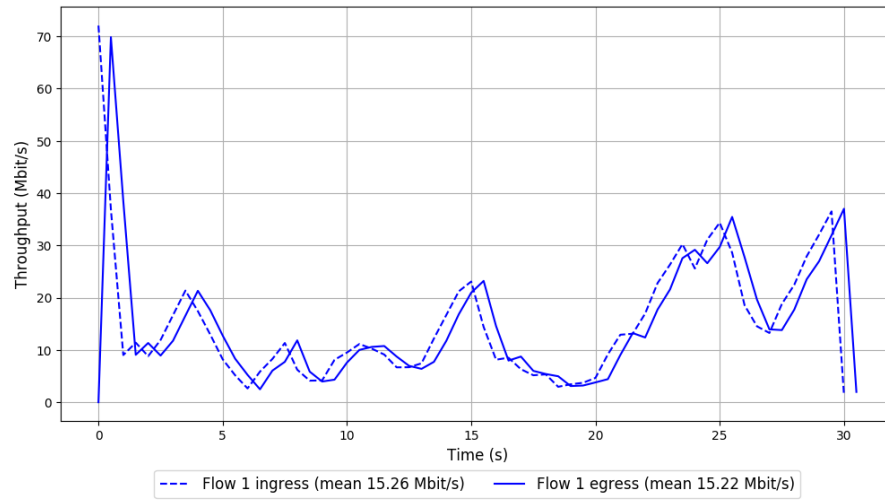


Run 3: Statistics of TCP Cubic

Start at: 2018-05-21 22:27:44  
End at: 2018-05-21 22:28:15  
Local clock offset: 1.167 ms  
Remote clock offset: -1.662 ms

# Below is generated by plot.py at 2018-05-22 00:44:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 15.22 Mbit/s  
95th percentile per-packet one-way delay: 18.712 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 15.22 Mbit/s  
95th percentile per-packet one-way delay: 18.712 ms  
Loss rate: 0.24%

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



Run 4: Statistics of TCP Cubic

Start at: 2018-05-21 22:45:32

End at: 2018-05-21 22:46:03

Local clock offset: 1.689 ms

Remote clock offset: 1.037 ms

# Below is generated by plot.py at 2018-05-22 00:44:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 20.74 Mbit/s

95th percentile per-packet one-way delay: 12.902 ms

Loss rate: 0.14%

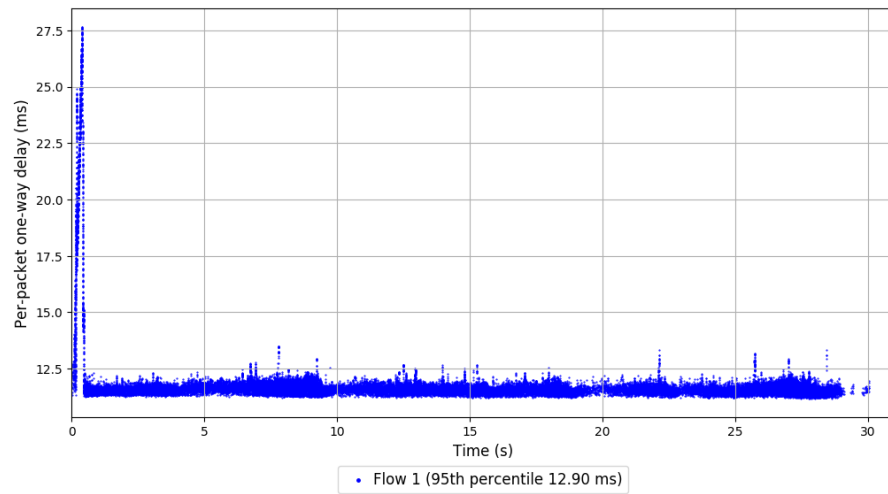
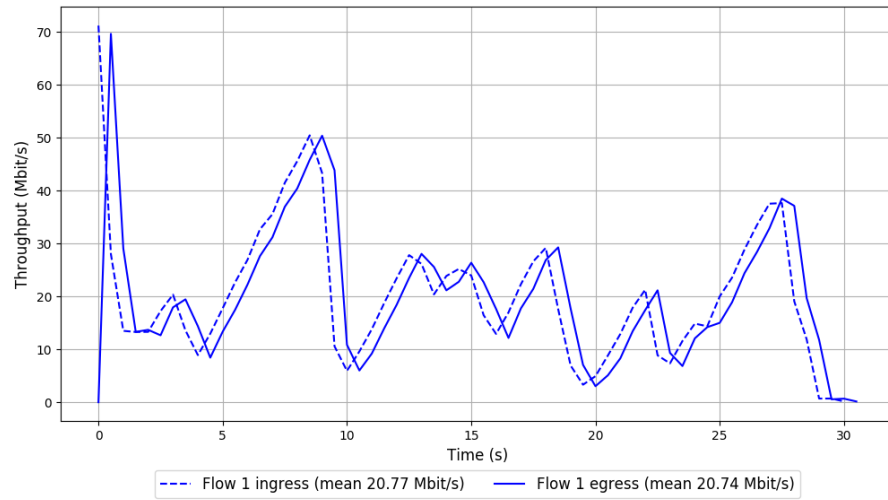
-- Flow 1:

Average throughput: 20.74 Mbit/s

95th percentile per-packet one-way delay: 12.902 ms

Loss rate: 0.14%

#### Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-05-21 23:03:18

End at: 2018-05-21 23:03:48

Local clock offset: -0.614 ms

Remote clock offset: 1.285 ms

# Below is generated by plot.py at 2018-05-22 00:44:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 29.89 Mbit/s

95th percentile per-packet one-way delay: 22.330 ms

Loss rate: 0.07%

-- Flow 1:

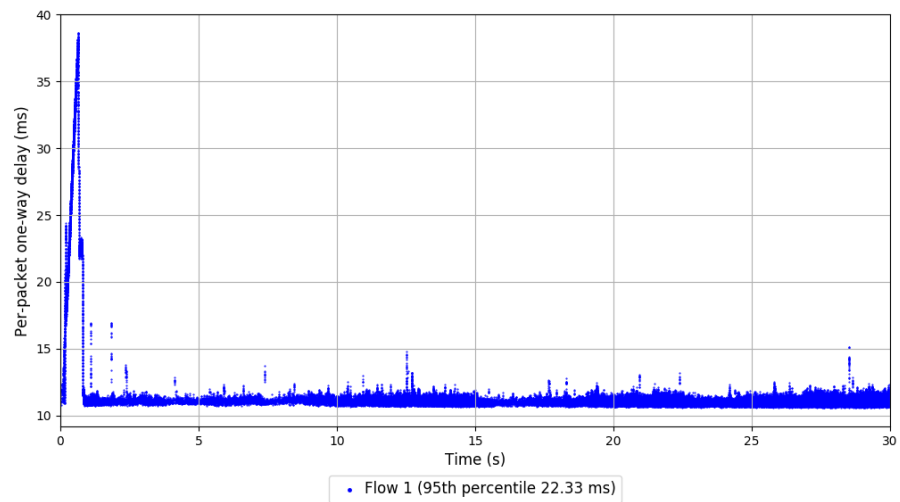
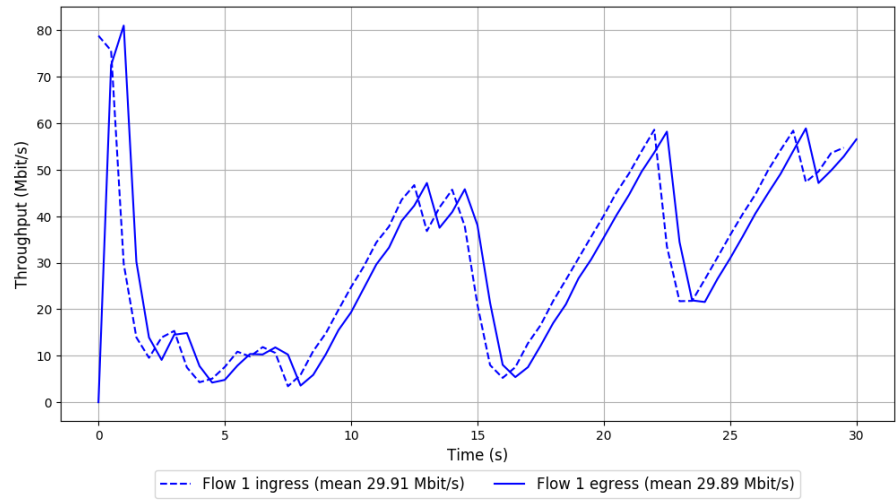
Average throughput: 29.89 Mbit/s

95th percentile per-packet one-way delay: 22.330 ms

Loss rate: 0.07%



### Run 5: Report of TCP Cubic — Data Link

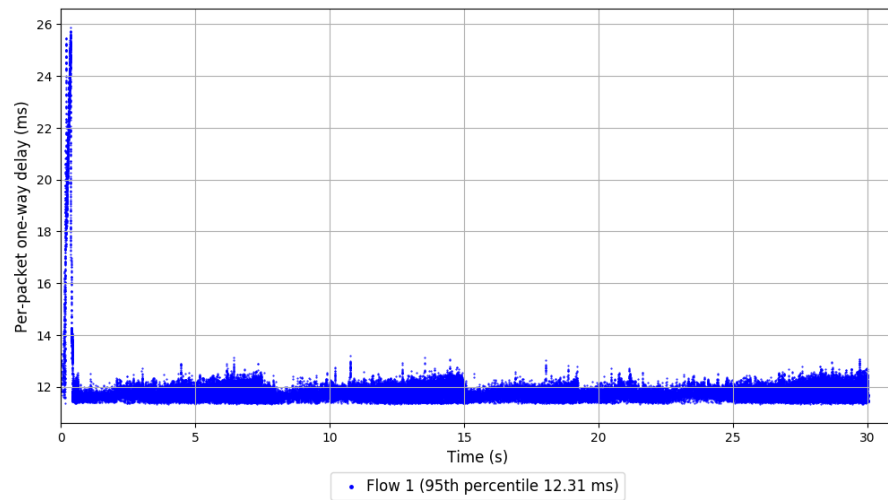
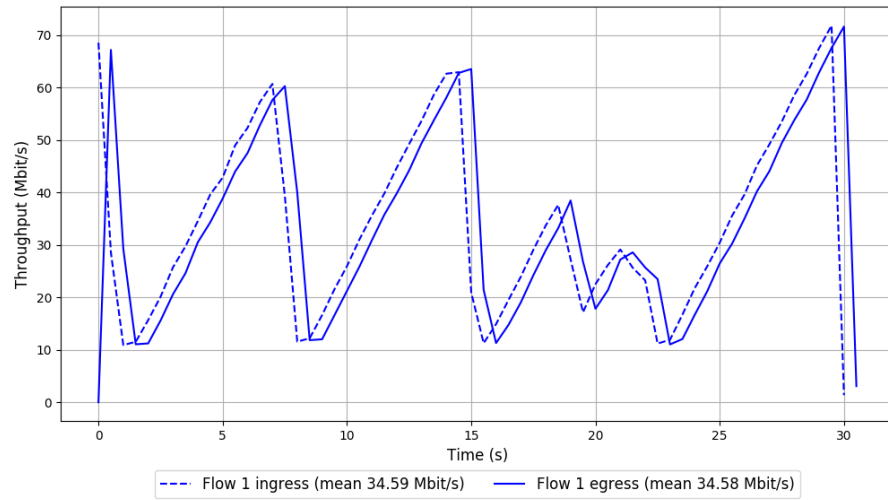


Run 6: Statistics of TCP Cubic

Start at: 2018-05-21 23:21:04  
End at: 2018-05-21 23:21:34  
Local clock offset: -3.301 ms  
Remote clock offset: -4.273 ms

# Below is generated by plot.py at 2018-05-22 00:44:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 34.58 Mbit/s  
95th percentile per-packet one-way delay: 12.308 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 34.58 Mbit/s  
95th percentile per-packet one-way delay: 12.308 ms  
Loss rate: 0.05%

## Run 6: Report of TCP Cubic — Data Link

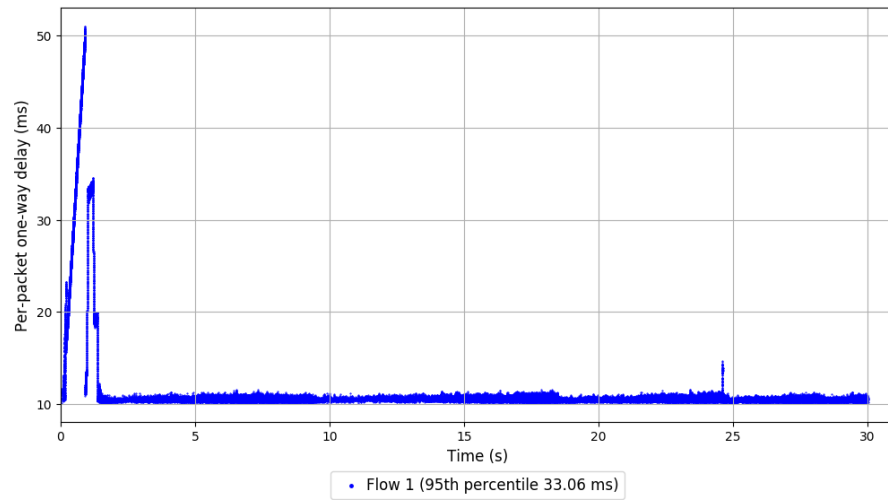
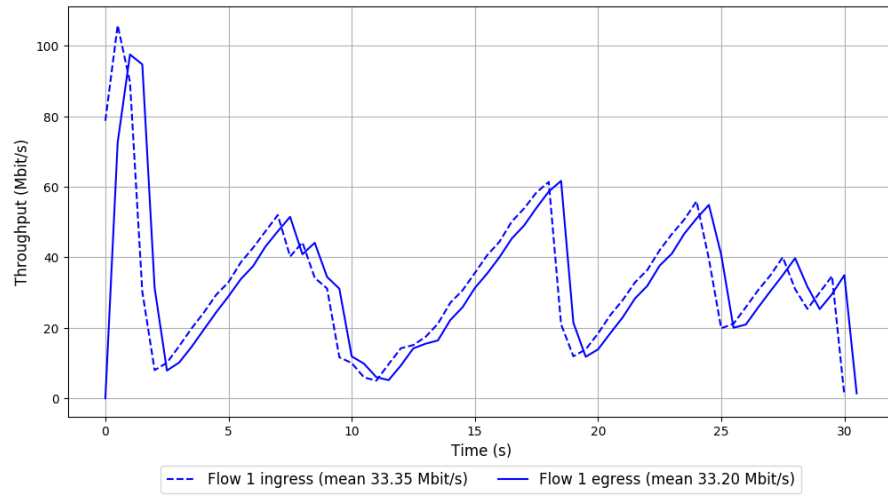


Run 7: Statistics of TCP Cubic

Start at: 2018-05-21 23:38:54  
End at: 2018-05-21 23:39:24  
Local clock offset: -4.08 ms  
Remote clock offset: -6.498 ms

# Below is generated by plot.py at 2018-05-22 00:44:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 33.20 Mbit/s  
95th percentile per-packet one-way delay: 33.062 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 33.20 Mbit/s  
95th percentile per-packet one-way delay: 33.062 ms  
Loss rate: 0.45%

## Run 7: Report of TCP Cubic — Data Link

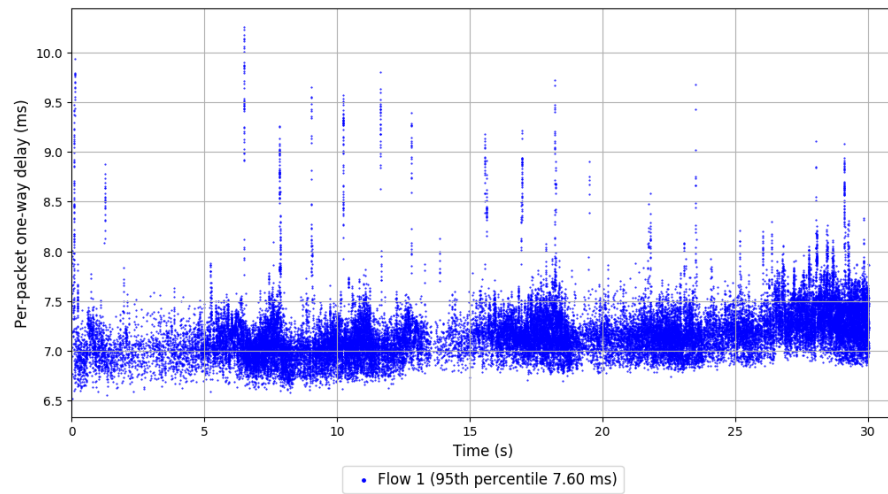
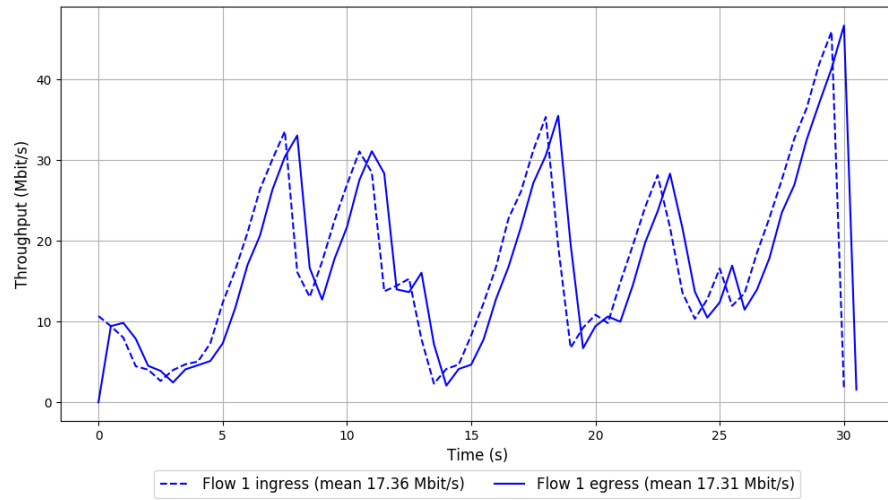


Run 8: Statistics of TCP Cubic

Start at: 2018-05-21 23:56:42  
End at: 2018-05-21 23:57:12  
Local clock offset: -5.083 ms  
Remote clock offset: -11.301 ms

# Below is generated by plot.py at 2018-05-22 00:44:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 17.31 Mbit/s  
95th percentile per-packet one-way delay: 7.597 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 17.31 Mbit/s  
95th percentile per-packet one-way delay: 7.597 ms  
Loss rate: 0.26%

## Run 8: Report of TCP Cubic — Data Link



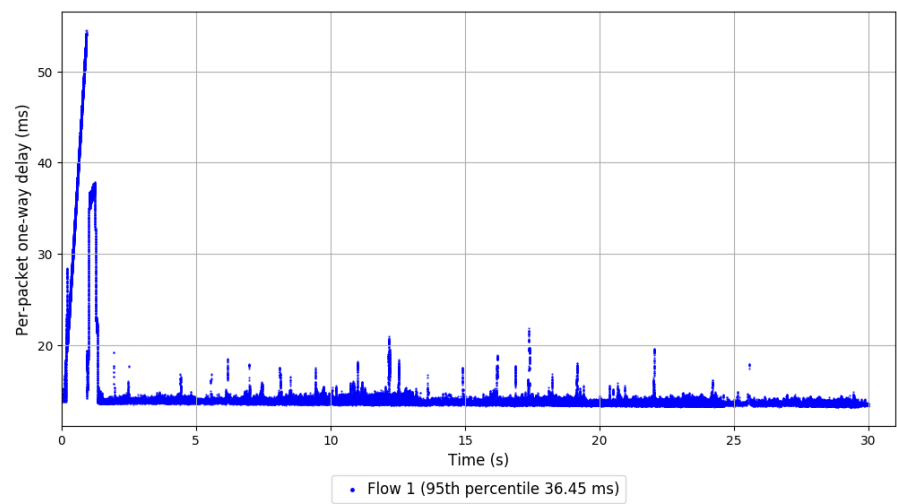
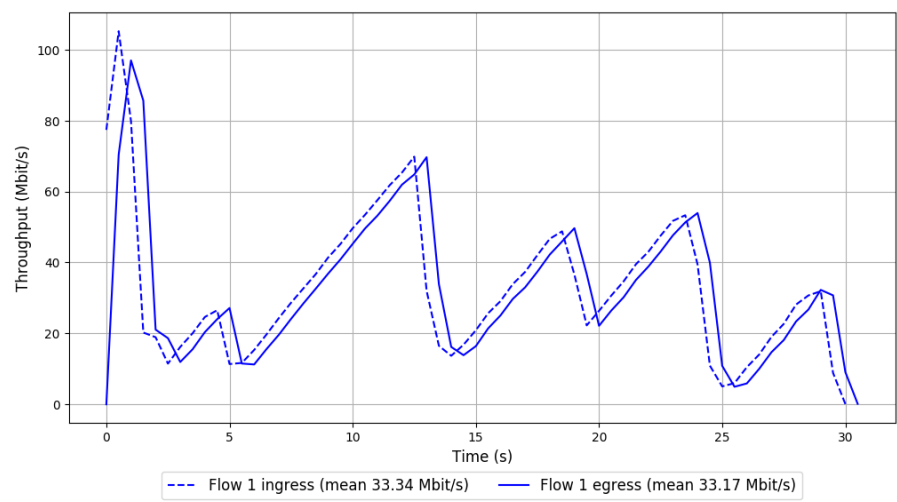
Run 9: Statistics of TCP Cubic

Start at: 2018-05-22 00:14:32  
End at: 2018-05-22 00:15:02  
Local clock offset: -5.18 ms  
Remote clock offset: -7.313 ms

# Below is generated by plot.py at 2018-05-22 00:44:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 33.17 Mbit/s  
95th percentile per-packet one-way delay: 36.447 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 33.17 Mbit/s  
95th percentile per-packet one-way delay: 36.447 ms  
Loss rate: 0.52%



Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-05-22 00:32:26

End at: 2018-05-22 00:32:56

Local clock offset: -3.499 ms

Remote clock offset: 2.035 ms

# Below is generated by plot.py at 2018-05-22 00:44:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 23.85 Mbit/s

95th percentile per-packet one-way delay: 20.865 ms

Loss rate: 0.10%

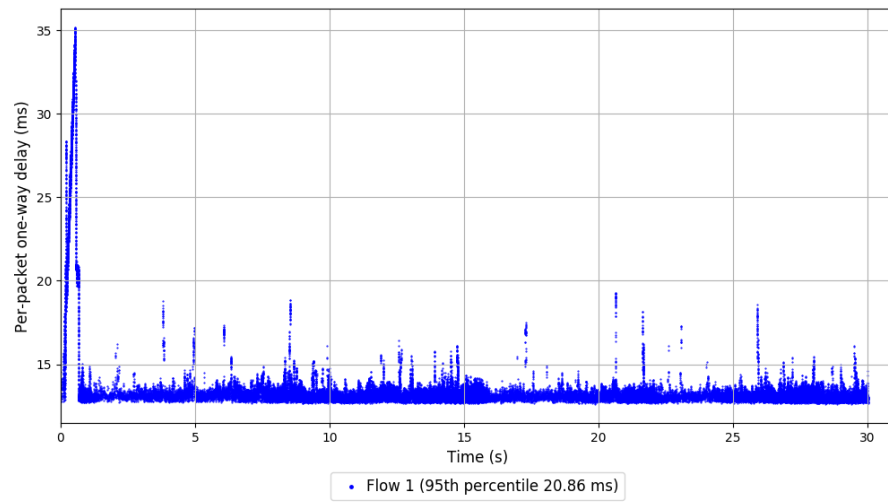
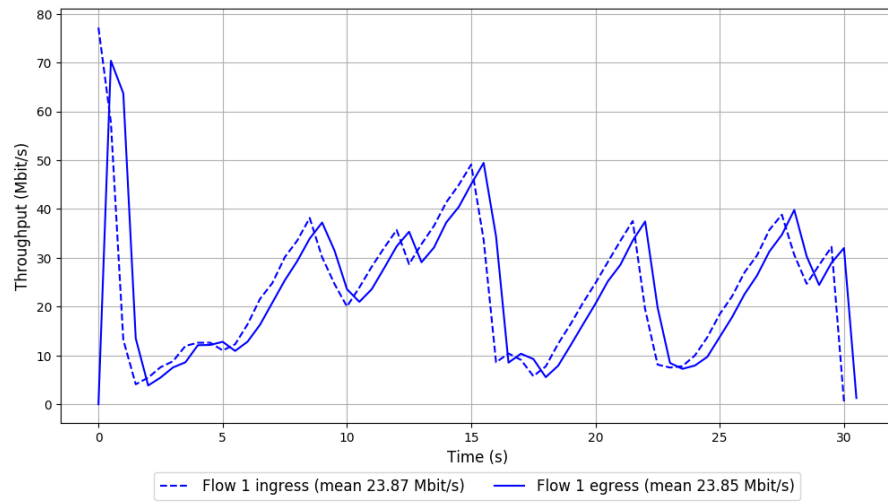
-- Flow 1:

Average throughput: 23.85 Mbit/s

95th percentile per-packet one-way delay: 20.865 ms

Loss rate: 0.10%

### Run 10: Report of TCP Cubic — Data Link

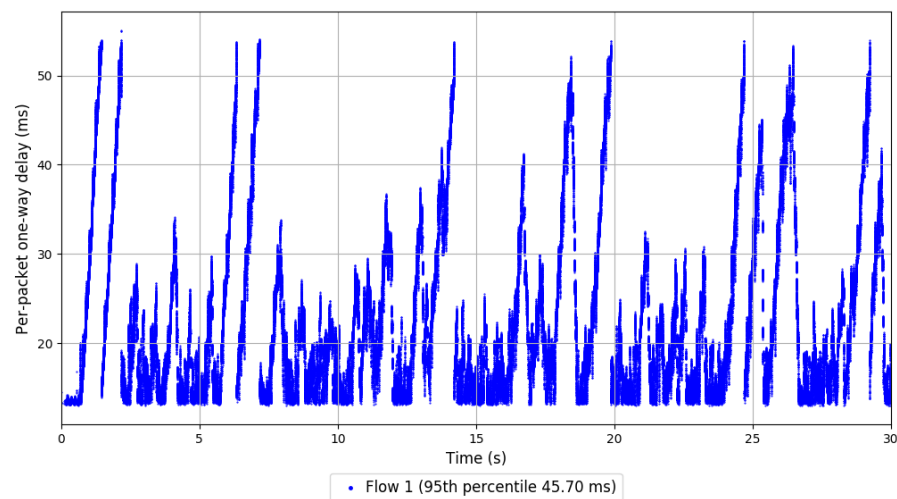
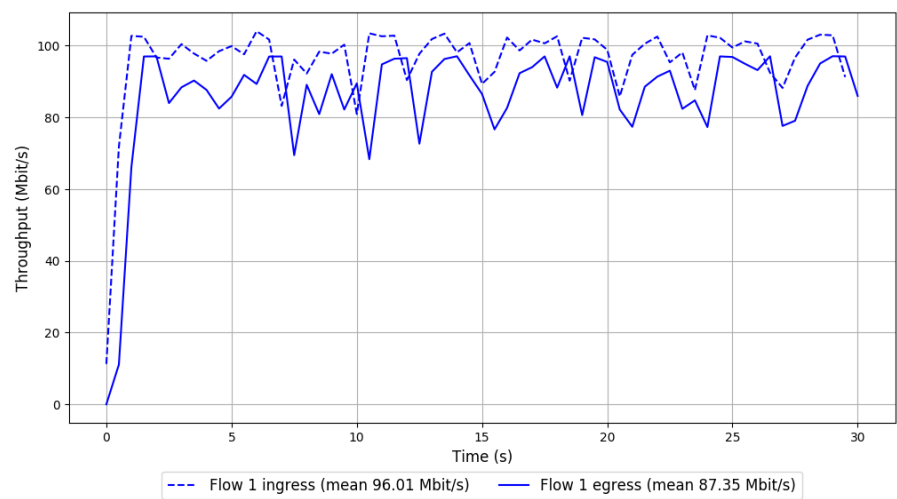


Run 1: Statistics of FillP

Start at: 2018-05-21 21:48:41  
End at: 2018-05-21 21:49:11  
Local clock offset: -3.755 ms  
Remote clock offset: -1.753 ms

# Below is generated by plot.py at 2018-05-22 00:44:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.35 Mbit/s  
95th percentile per-packet one-way delay: 45.700 ms  
Loss rate: 9.02%  
-- Flow 1:  
Average throughput: 87.35 Mbit/s  
95th percentile per-packet one-way delay: 45.700 ms  
Loss rate: 9.02%

Run 1: Report of FillP — Data Link

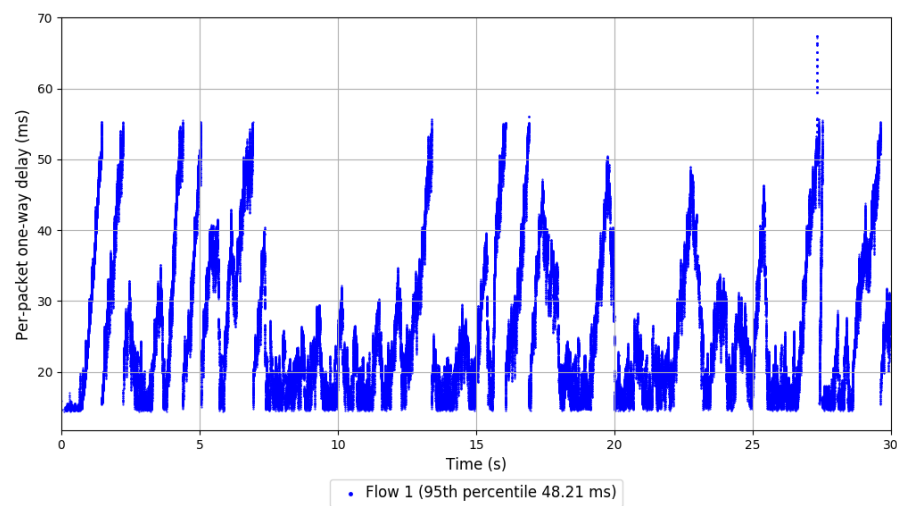
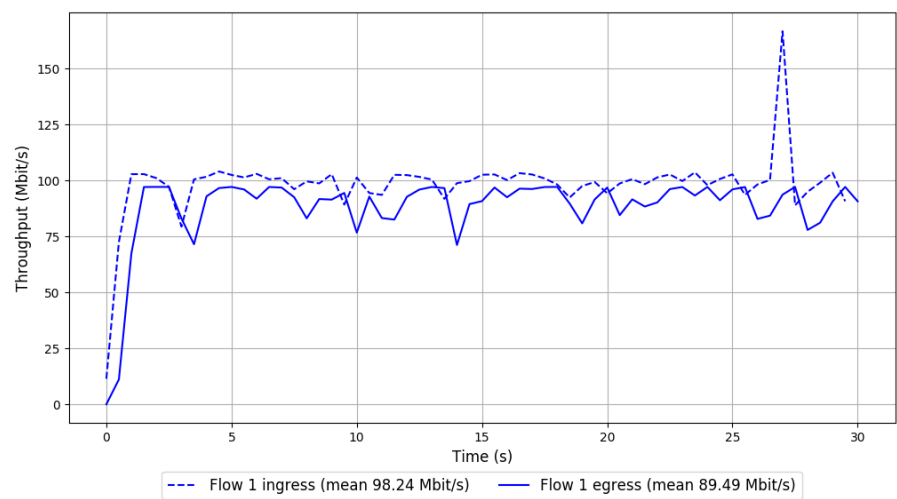


Run 2: Statistics of FillP

Start at: 2018-05-21 22:06:38  
End at: 2018-05-21 22:07:08  
Local clock offset: -2.327 ms  
Remote clock offset: -1.325 ms

# Below is generated by plot.py at 2018-05-22 00:45:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 89.49 Mbit/s  
95th percentile per-packet one-way delay: 48.213 ms  
Loss rate: 8.88%  
-- Flow 1:  
Average throughput: 89.49 Mbit/s  
95th percentile per-packet one-way delay: 48.213 ms  
Loss rate: 8.88%

Run 2: Report of FillP — Data Link



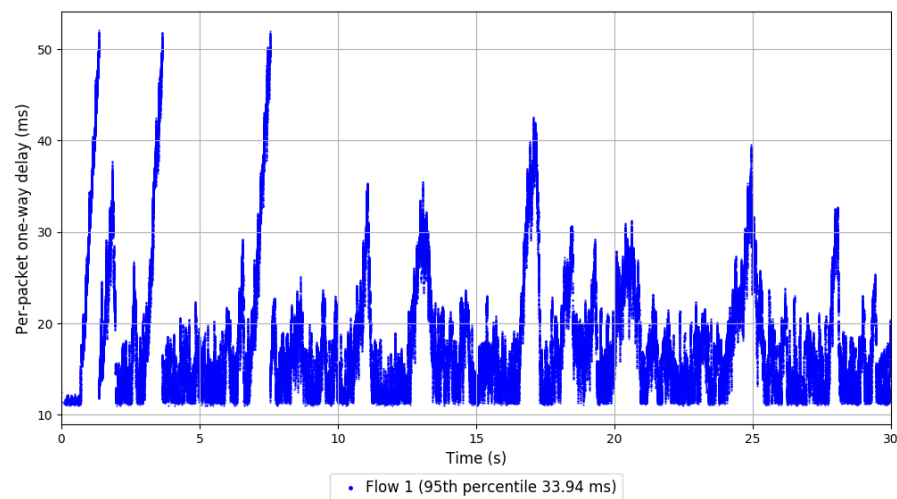
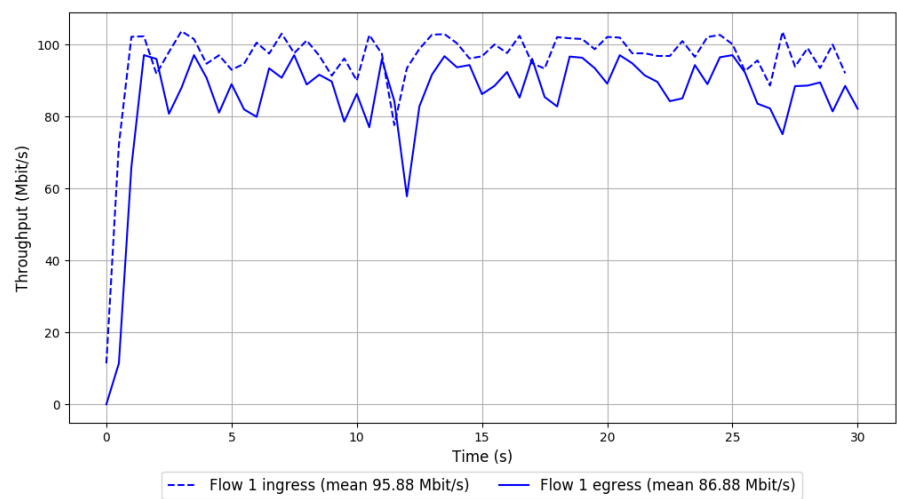
Run 3: Statistics of FillP

Start at: 2018-05-21 22:24:23  
End at: 2018-05-21 22:24:53  
Local clock offset: 1.247 ms  
Remote clock offset: -1.632 ms

# Below is generated by plot.py at 2018-05-22 00:45:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.88 Mbit/s  
95th percentile per-packet one-way delay: 33.936 ms  
Loss rate: 9.38%  
-- Flow 1:  
Average throughput: 86.88 Mbit/s  
95th percentile per-packet one-way delay: 33.936 ms  
Loss rate: 9.38%



Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-05-21 22:42:10

End at: 2018-05-21 22:42:40

Local clock offset: 1.257 ms

Remote clock offset: 1.229 ms

# Below is generated by plot.py at 2018-05-22 00:45:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.36 Mbit/s

95th percentile per-packet one-way delay: 36.179 ms

Loss rate: 9.55%

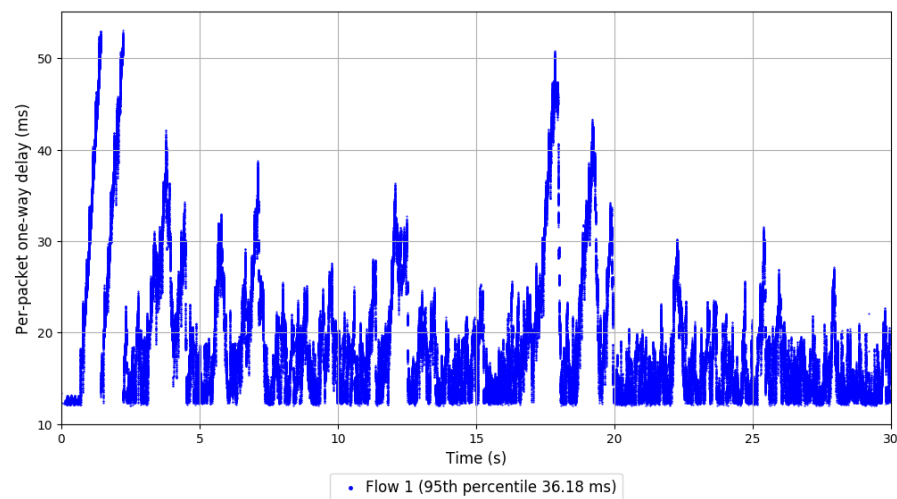
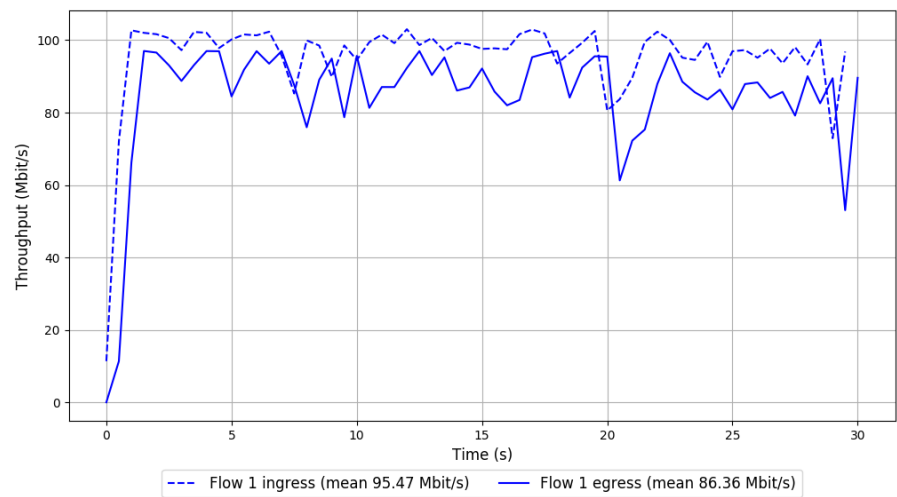
-- Flow 1:

Average throughput: 86.36 Mbit/s

95th percentile per-packet one-way delay: 36.179 ms

Loss rate: 9.55%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-05-21 22:59:56

End at: 2018-05-21 23:00:26

Local clock offset: -0.071 ms

Remote clock offset: 2.131 ms

# Below is generated by plot.py at 2018-05-22 00:45:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.12 Mbit/s

95th percentile per-packet one-way delay: 42.099 ms

Loss rate: 8.57%

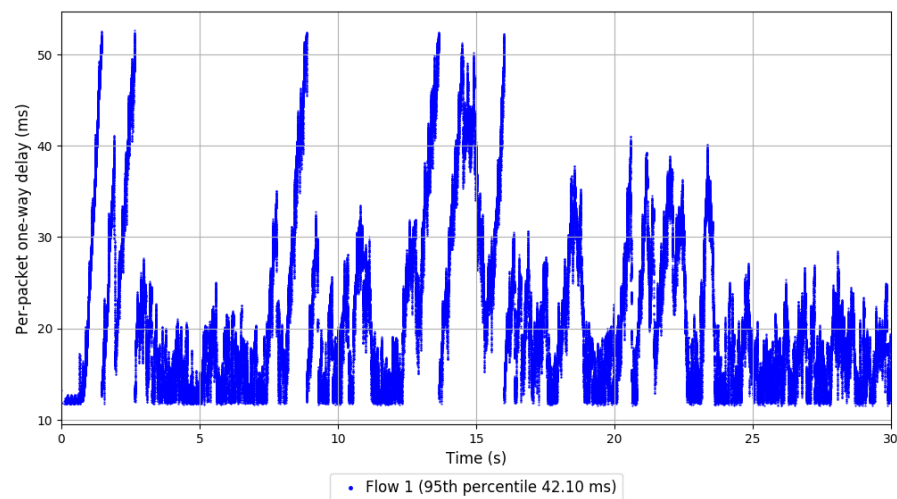
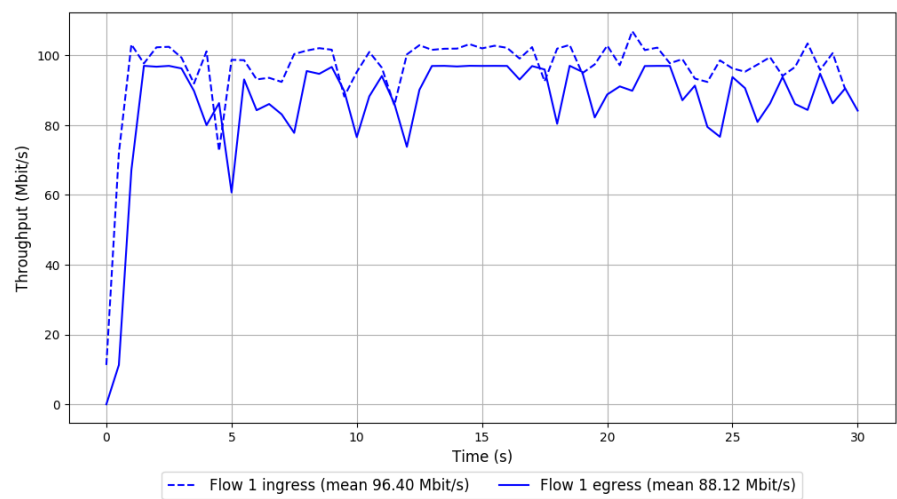
-- Flow 1:

Average throughput: 88.12 Mbit/s

95th percentile per-packet one-way delay: 42.099 ms

Loss rate: 8.57%

Run 5: Report of FillP — Data Link

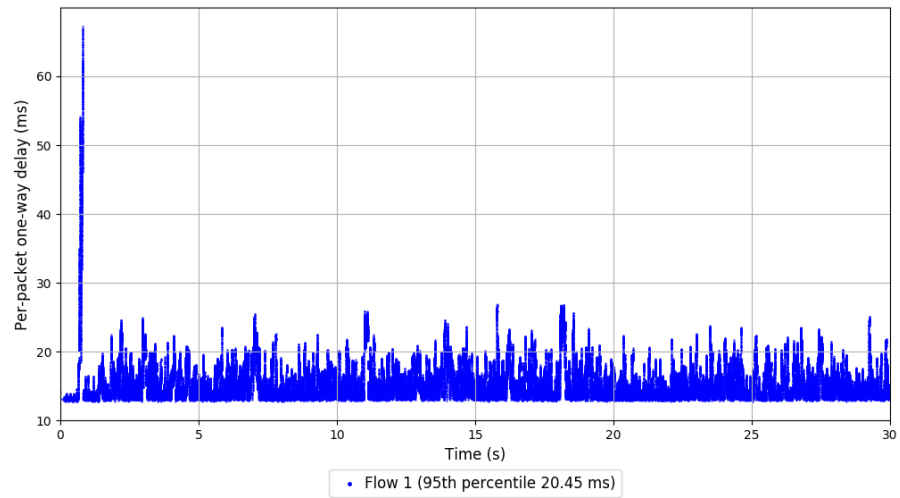
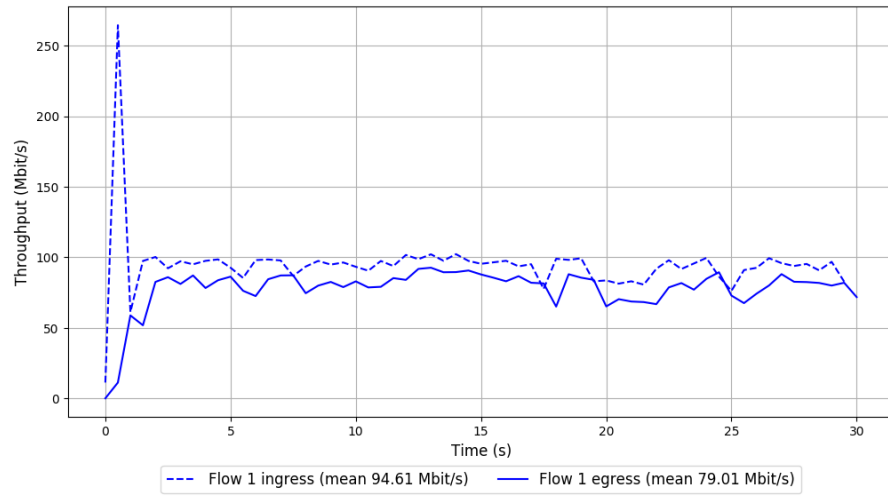


Run 6: Statistics of FillP

Start at: 2018-05-21 23:17:40  
End at: 2018-05-21 23:18:10  
Local clock offset: -4.977 ms  
Remote clock offset: -3.953 ms

# Below is generated by plot.py at 2018-05-22 00:45:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 79.01 Mbit/s  
95th percentile per-packet one-way delay: 20.455 ms  
Loss rate: 16.48%  
-- Flow 1:  
Average throughput: 79.01 Mbit/s  
95th percentile per-packet one-way delay: 20.455 ms  
Loss rate: 16.48%

## Run 6: Report of FillP — Data Link



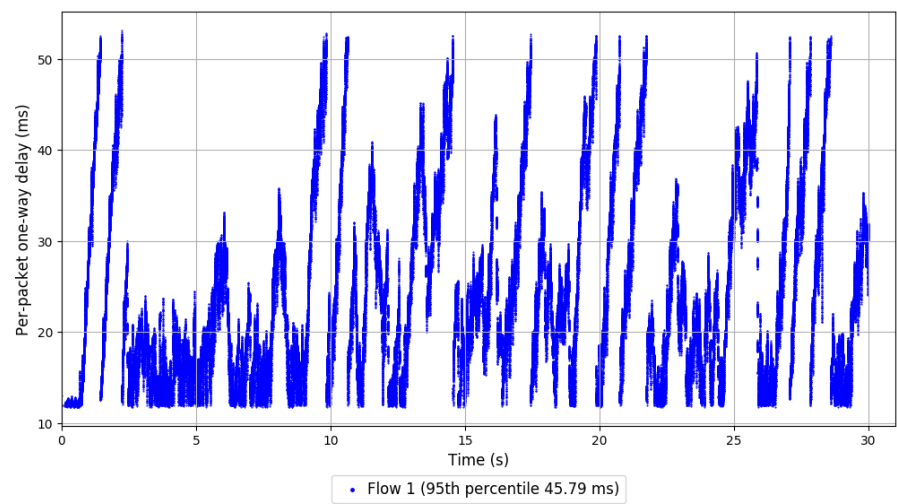
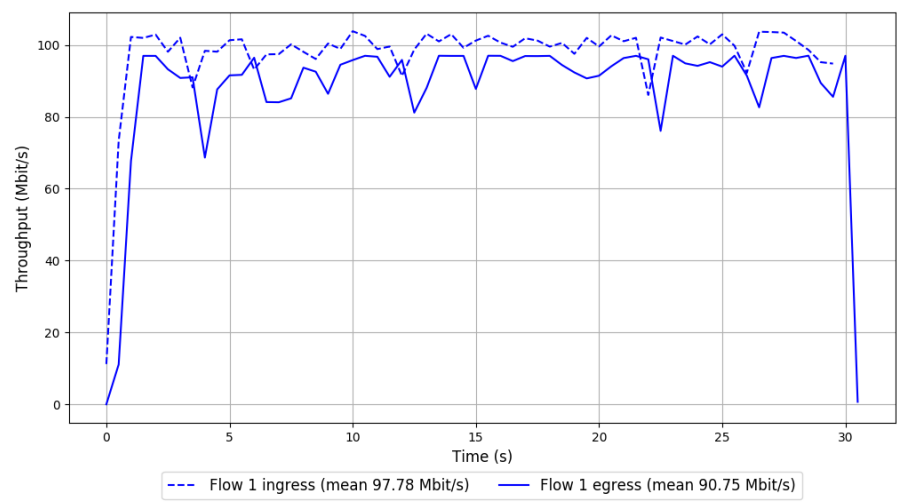
Run 7: Statistics of FillP

Start at: 2018-05-21 23:35:32  
End at: 2018-05-21 23:36:02  
Local clock offset: -5.882 ms  
Remote clock offset: -6.431 ms

# Below is generated by plot.py at 2018-05-22 00:46:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.75 Mbit/s  
95th percentile per-packet one-way delay: 45.790 ms  
Loss rate: 7.14%  
-- Flow 1:  
Average throughput: 90.75 Mbit/s  
95th percentile per-packet one-way delay: 45.790 ms  
Loss rate: 7.14%



Run 7: Report of FillP — Data Link

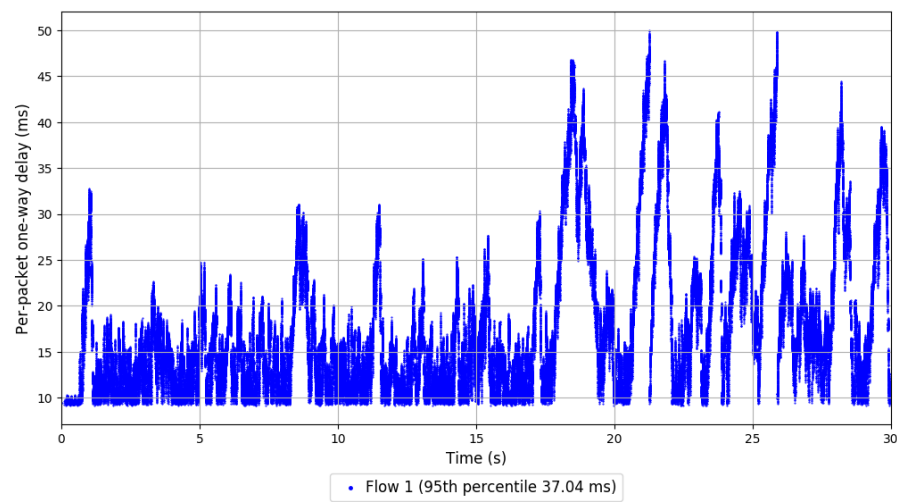
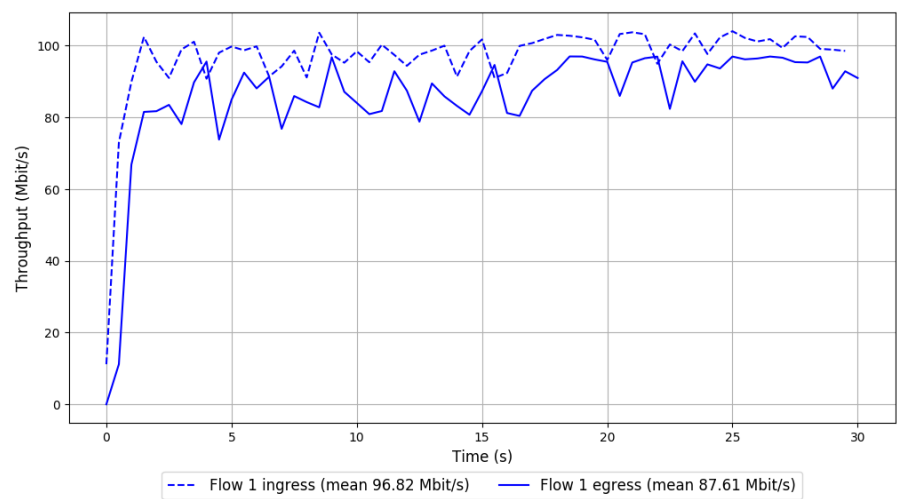


Run 8: Statistics of FillP

Start at: 2018-05-21 23:53:20  
End at: 2018-05-21 23:53:50  
Local clock offset: -4.87 ms  
Remote clock offset: -8.046 ms

# Below is generated by plot.py at 2018-05-22 00:46:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.61 Mbit/s  
95th percentile per-packet one-way delay: 37.042 ms  
Loss rate: 9.52%  
-- Flow 1:  
Average throughput: 87.61 Mbit/s  
95th percentile per-packet one-way delay: 37.042 ms  
Loss rate: 9.52%

Run 8: Report of FillP — Data Link

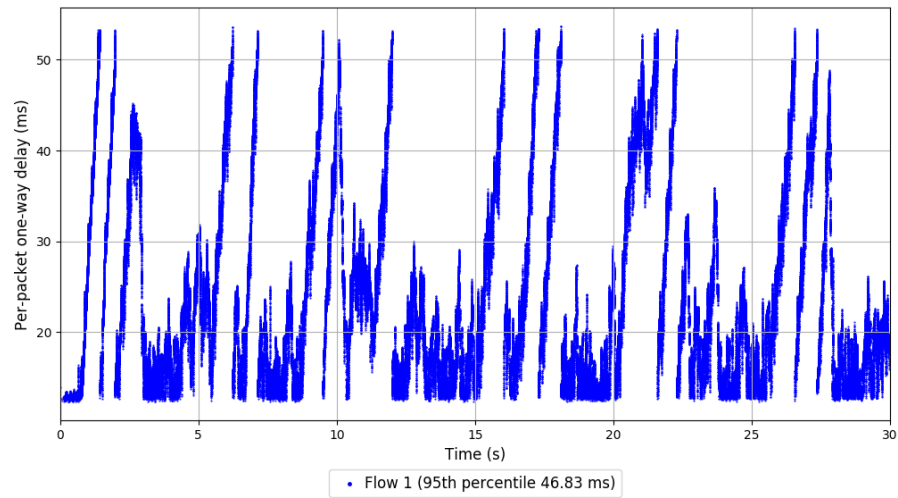
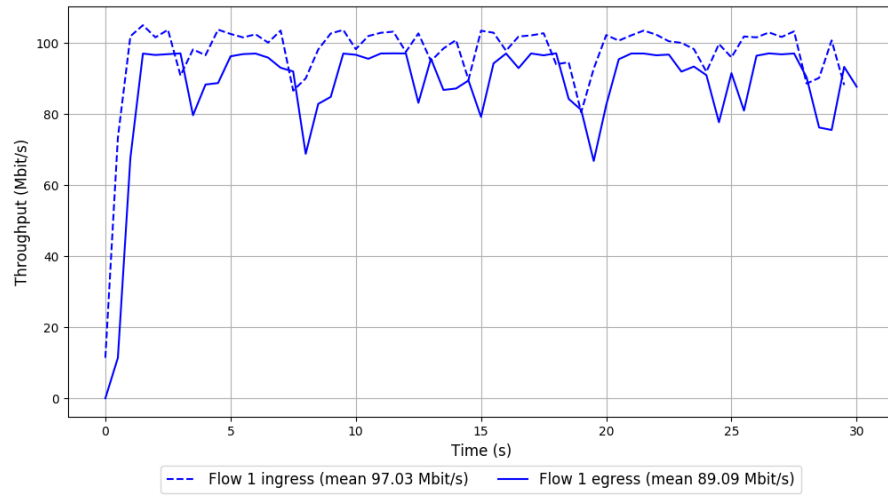


Run 9: Statistics of FillP

Start at: 2018-05-22 00:11:08  
End at: 2018-05-22 00:11:38  
Local clock offset: -4.256 ms  
Remote clock offset: -9.015 ms

# Below is generated by plot.py at 2018-05-22 00:46:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 89.09 Mbit/s  
95th percentile per-packet one-way delay: 46.826 ms  
Loss rate: 8.17%  
-- Flow 1:  
Average throughput: 89.09 Mbit/s  
95th percentile per-packet one-way delay: 46.826 ms  
Loss rate: 8.17%

### Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-05-22 00:28:59

End at: 2018-05-22 00:29:29

Local clock offset: -4.116 ms

Remote clock offset: 0.096 ms

# Below is generated by plot.py at 2018-05-22 00:46:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.16 Mbit/s

95th percentile per-packet one-way delay: 45.691 ms

Loss rate: 7.50%

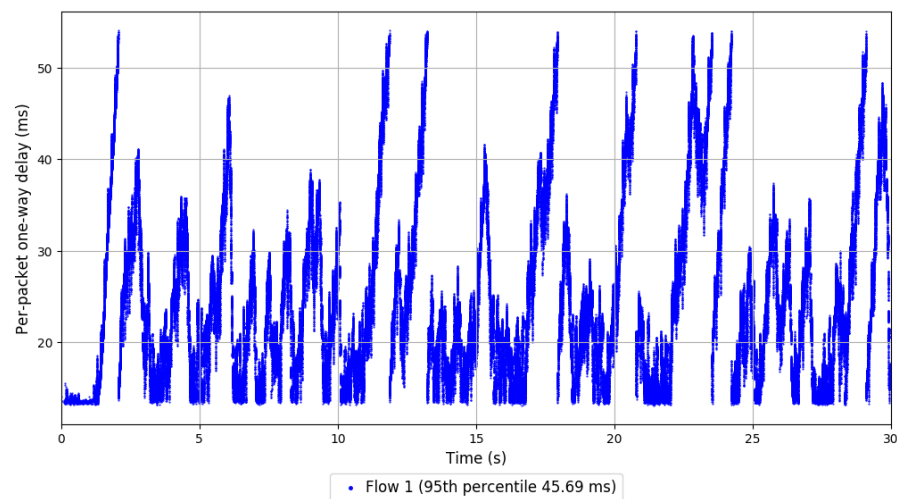
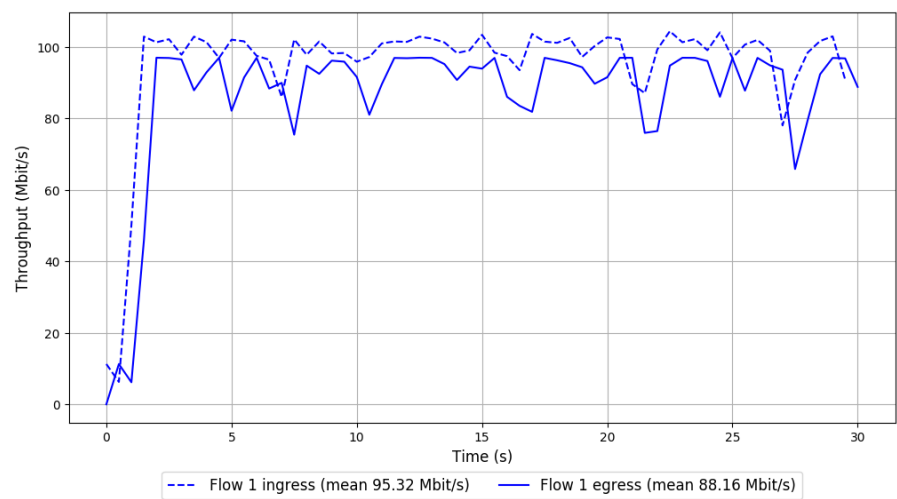
-- Flow 1:

Average throughput: 88.16 Mbit/s

95th percentile per-packet one-way delay: 45.691 ms

Loss rate: 7.50%

Run 10: Report of FillP — Data Link



Run 1: Statistics of Indigo

Start at: 2018-05-21 21:44:13

End at: 2018-05-21 21:44:43

Local clock offset: 0.469 ms

Remote clock offset: -1.507 ms

# Below is generated by plot.py at 2018-05-22 00:46:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.95 Mbit/s

95th percentile per-packet one-way delay: 12.784 ms

Loss rate: 5.49%

-- Flow 1:

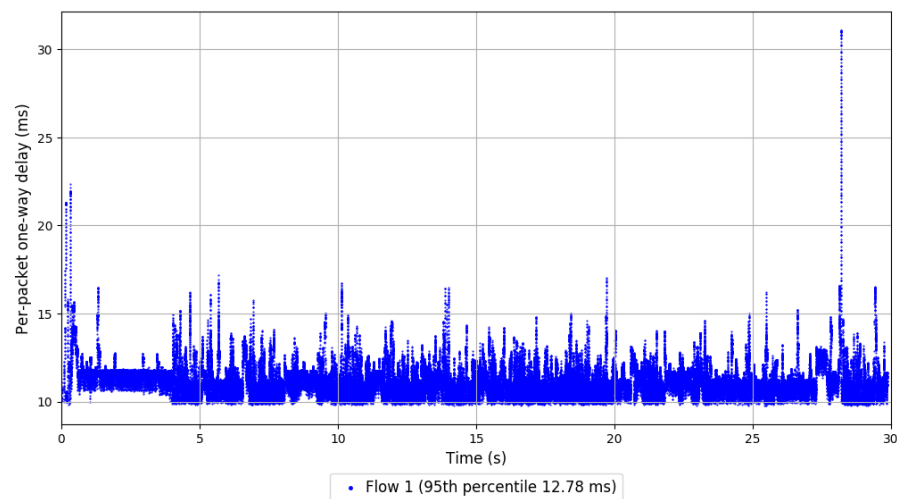
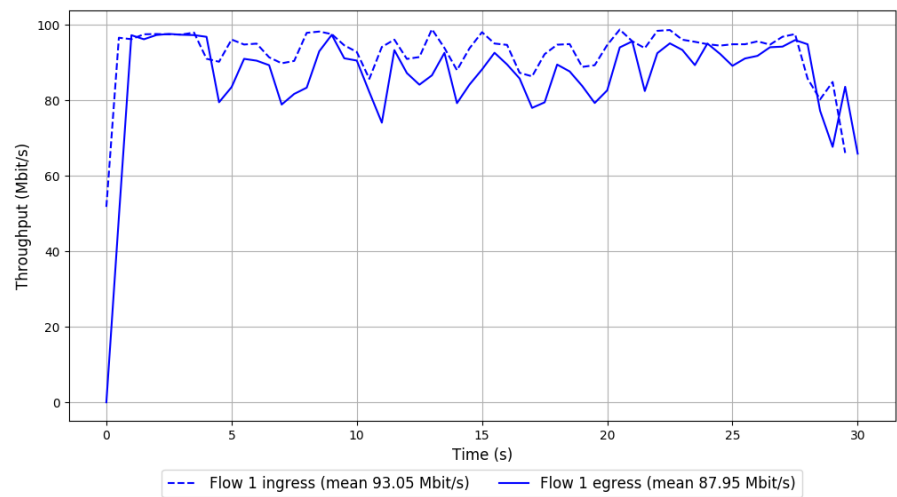
Average throughput: 87.95 Mbit/s

95th percentile per-packet one-way delay: 12.784 ms

Loss rate: 5.49%



Run 1: Report of Indigo — Data Link

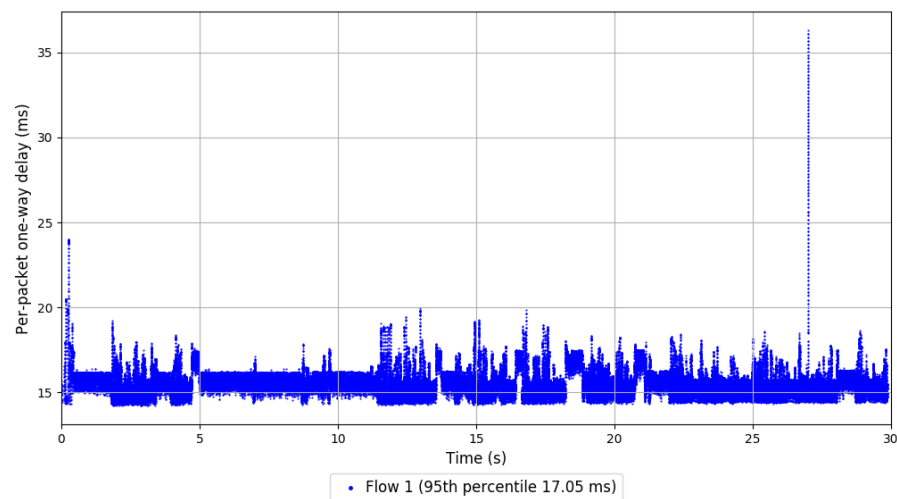
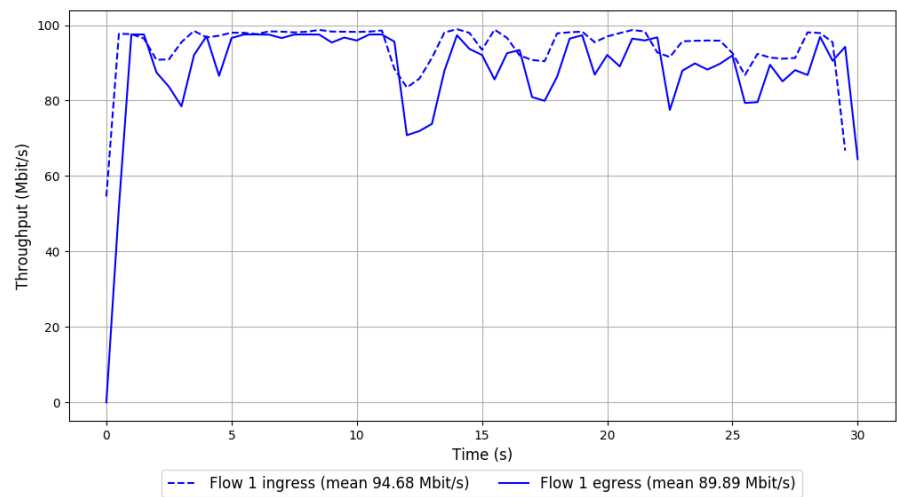


Run 2: Statistics of Indigo

Start at: 2018-05-21 22:02:05  
End at: 2018-05-21 22:02:35  
Local clock offset: -2.818 ms  
Remote clock offset: -1.366 ms

# Below is generated by plot.py at 2018-05-22 00:46:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 89.89 Mbit/s  
95th percentile per-packet one-way delay: 17.049 ms  
Loss rate: 5.06%  
-- Flow 1:  
Average throughput: 89.89 Mbit/s  
95th percentile per-packet one-way delay: 17.049 ms  
Loss rate: 5.06%

Run 2: Report of Indigo — Data Link

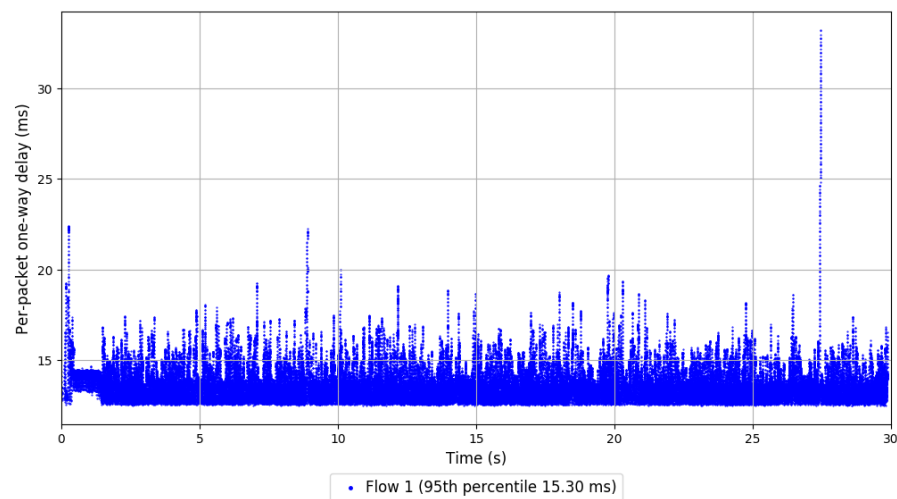
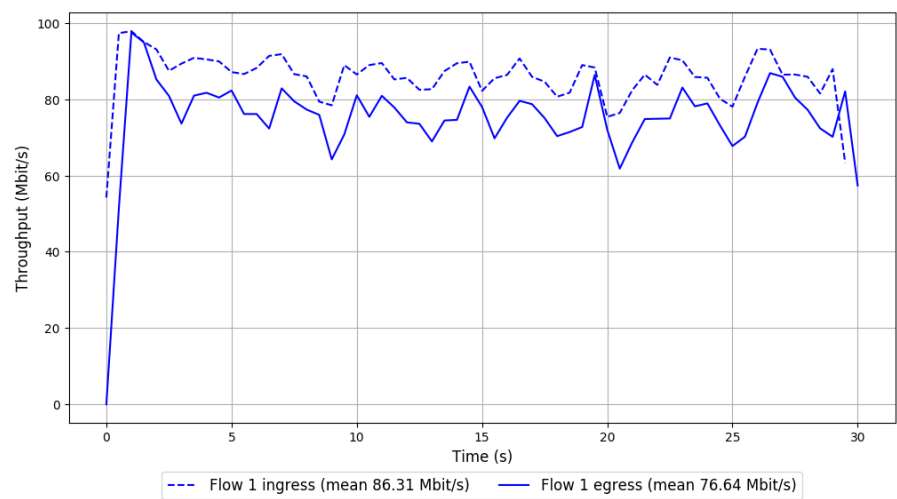


Run 3: Statistics of Indigo

Start at: 2018-05-21 22:19:49  
End at: 2018-05-21 22:20:19  
Local clock offset: 0.613 ms  
Remote clock offset: -1.141 ms

# Below is generated by plot.py at 2018-05-22 00:46:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 76.64 Mbit/s  
95th percentile per-packet one-way delay: 15.300 ms  
Loss rate: 11.19%  
-- Flow 1:  
Average throughput: 76.64 Mbit/s  
95th percentile per-packet one-way delay: 15.300 ms  
Loss rate: 11.19%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-05-21 22:37:35

End at: 2018-05-21 22:38:05

Local clock offset: -0.948 ms

Remote clock offset: 0.285 ms

# Below is generated by plot.py at 2018-05-22 00:46:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.48 Mbit/s

95th percentile per-packet one-way delay: 17.146 ms

Loss rate: 9.45%

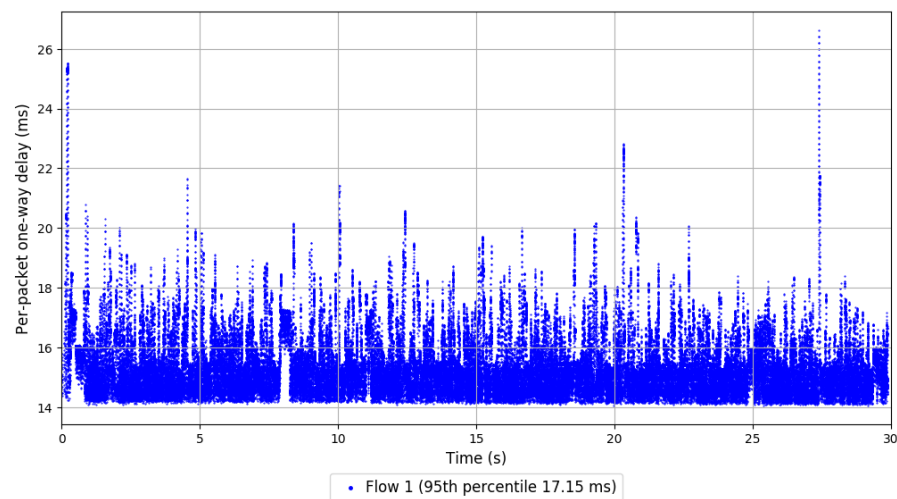
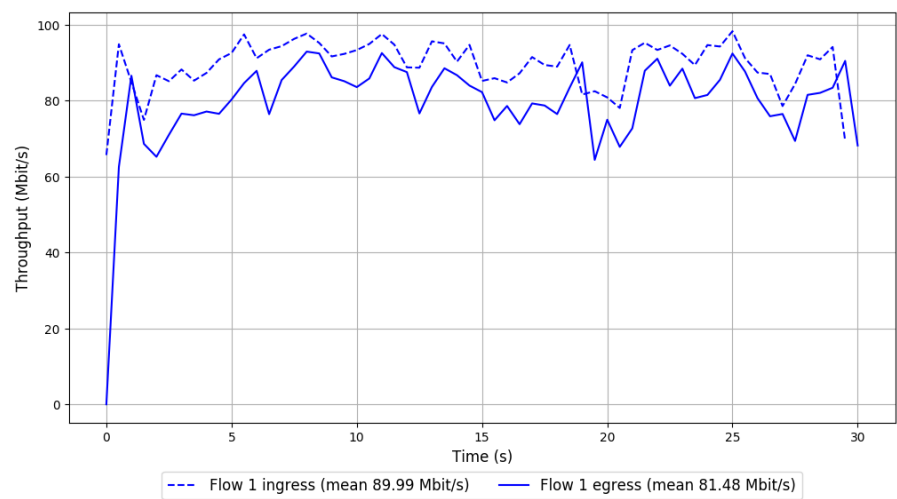
-- Flow 1:

Average throughput: 81.48 Mbit/s

95th percentile per-packet one-way delay: 17.146 ms

Loss rate: 9.45%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-05-21 22:55:28

End at: 2018-05-21 22:55:58

Local clock offset: 2.286 ms

Remote clock offset: 2.552 ms

# Below is generated by plot.py at 2018-05-22 00:47:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.16 Mbit/s

95th percentile per-packet one-way delay: 14.235 ms

Loss rate: 6.63%

-- Flow 1:

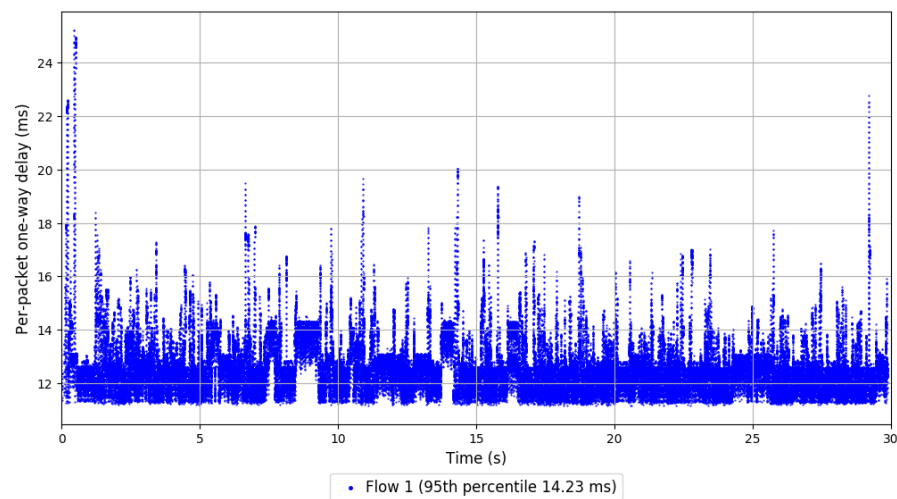
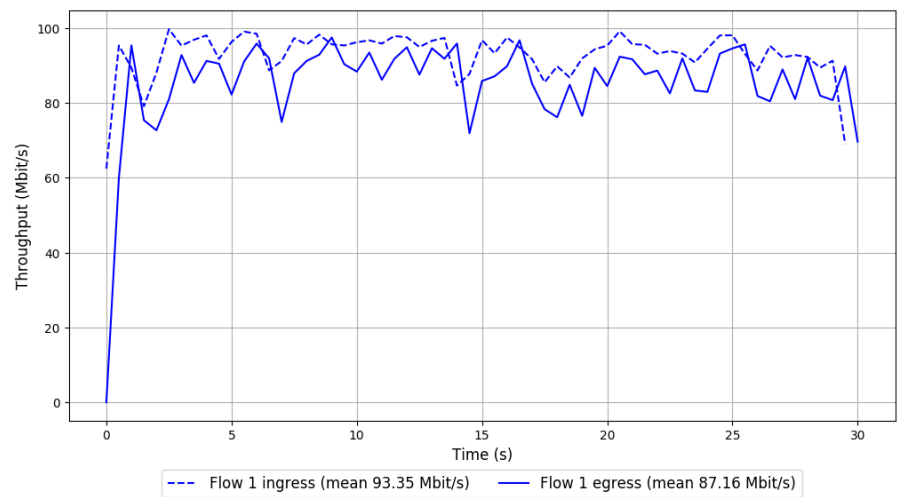
Average throughput: 87.16 Mbit/s

95th percentile per-packet one-way delay: 14.235 ms

Loss rate: 6.63%



Run 5: Report of Indigo — Data Link

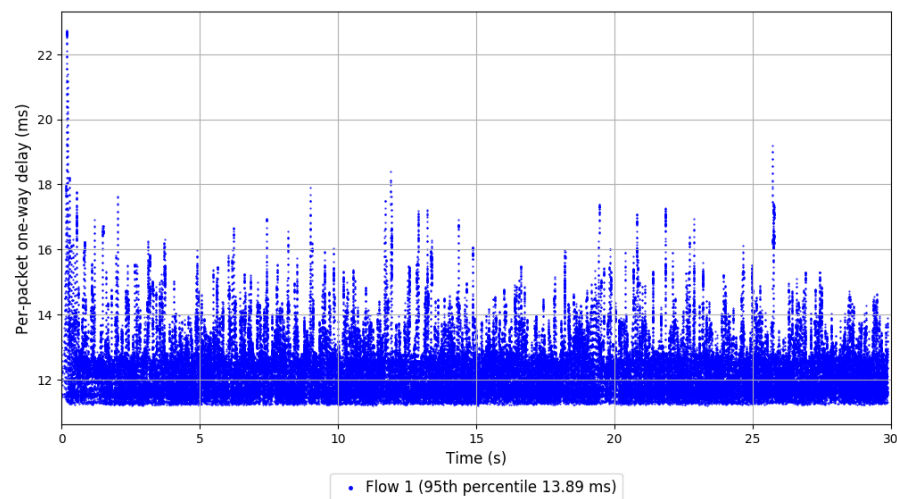
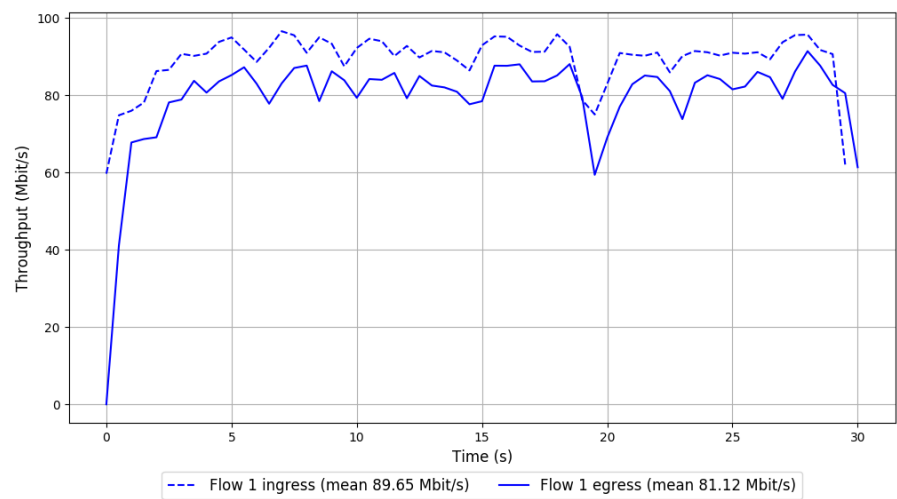


Run 6: Statistics of Indigo

Start at: 2018-05-21 23:13:12  
End at: 2018-05-21 23:13:42  
Local clock offset: -2.418 ms  
Remote clock offset: -2.732 ms

# Below is generated by plot.py at 2018-05-22 00:47:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 81.12 Mbit/s  
95th percentile per-packet one-way delay: 13.892 ms  
Loss rate: 9.52%  
-- Flow 1:  
Average throughput: 81.12 Mbit/s  
95th percentile per-packet one-way delay: 13.892 ms  
Loss rate: 9.52%

Run 6: Report of Indigo — Data Link

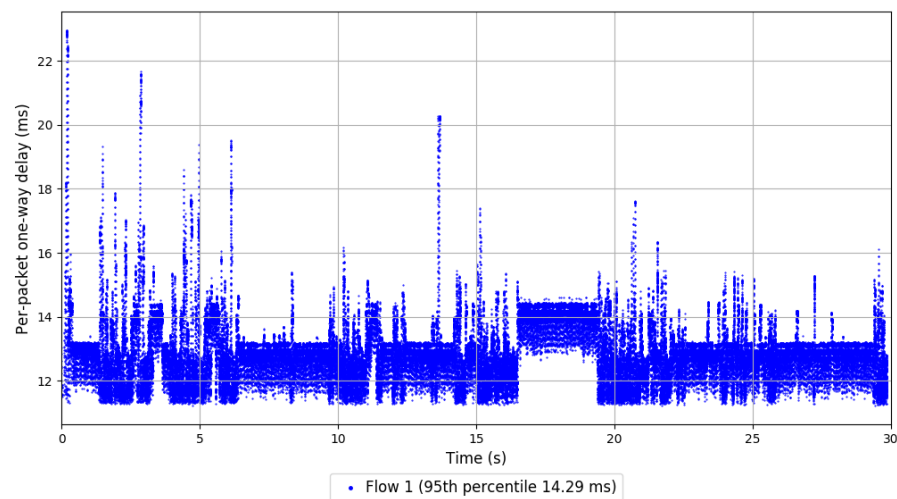
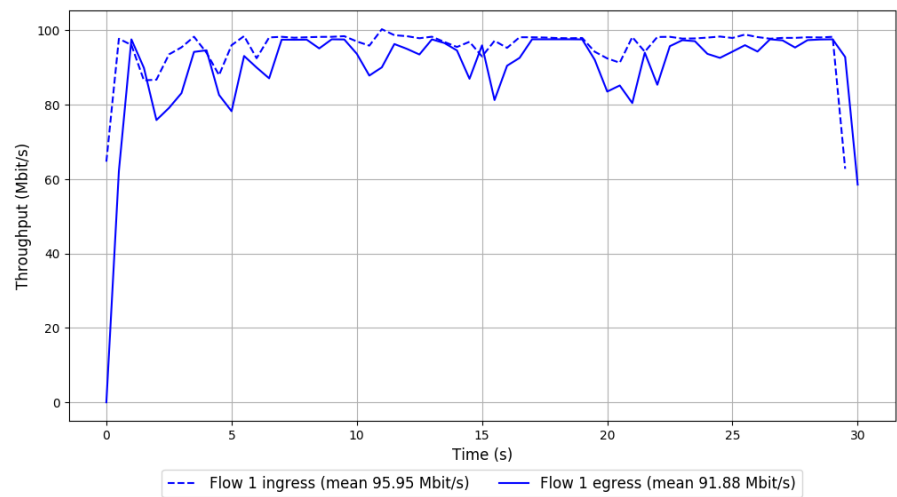


Run 7: Statistics of Indigo

Start at: 2018-05-21 23:31:03  
End at: 2018-05-21 23:31:33  
Local clock offset: -4.155 ms  
Remote clock offset: -5.245 ms

# Below is generated by plot.py at 2018-05-22 00:47:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.88 Mbit/s  
95th percentile per-packet one-way delay: 14.289 ms  
Loss rate: 4.24%  
-- Flow 1:  
Average throughput: 91.88 Mbit/s  
95th percentile per-packet one-way delay: 14.289 ms  
Loss rate: 4.24%

Run 7: Report of Indigo — Data Link

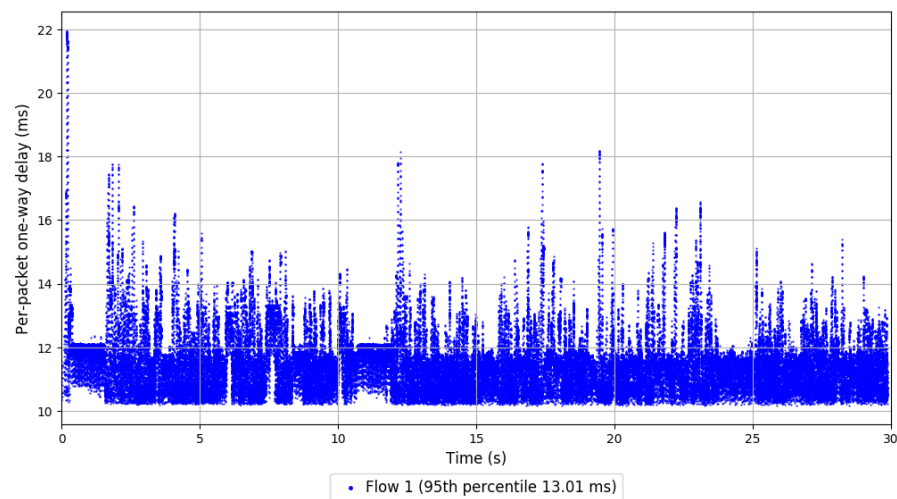
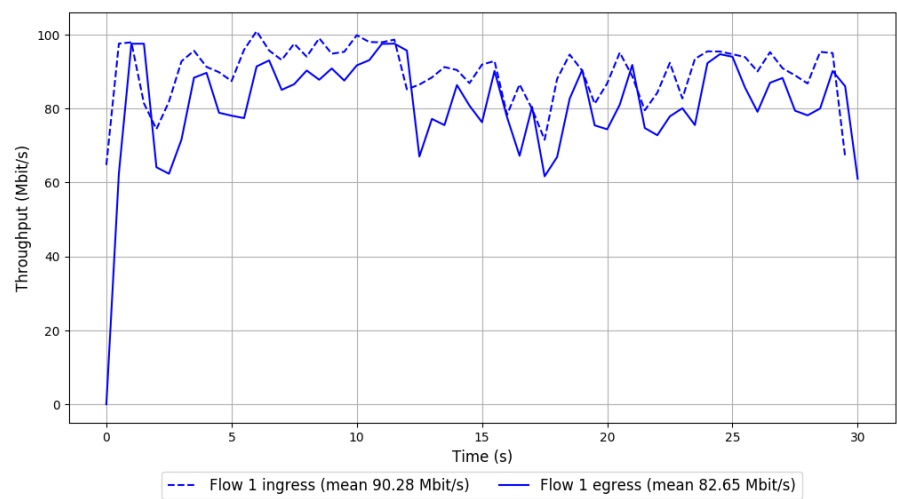


Run 8: Statistics of Indigo

Start at: 2018-05-21 23:48:53  
End at: 2018-05-21 23:49:23  
Local clock offset: -4.587 ms  
Remote clock offset: -6.913 ms

# Below is generated by plot.py at 2018-05-22 00:47:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 82.65 Mbit/s  
95th percentile per-packet one-way delay: 13.013 ms  
Loss rate: 8.45%  
-- Flow 1:  
Average throughput: 82.65 Mbit/s  
95th percentile per-packet one-way delay: 13.013 ms  
Loss rate: 8.45%

Run 8: Report of Indigo — Data Link



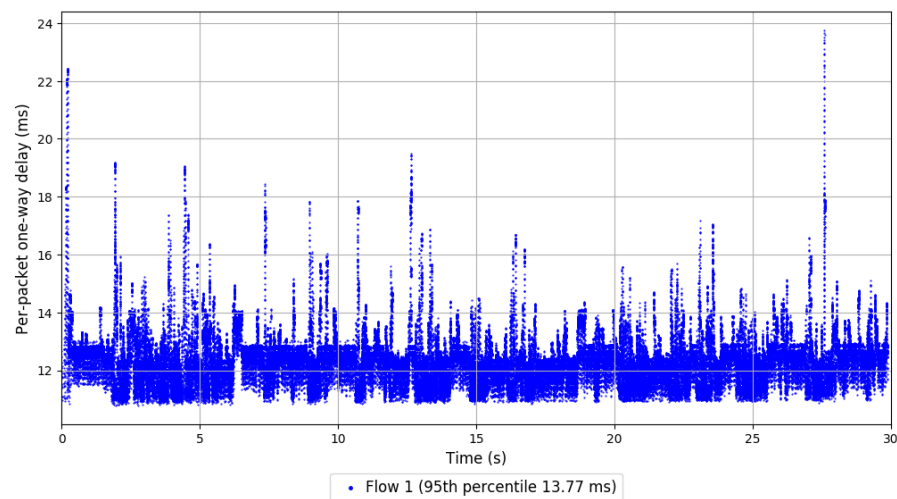
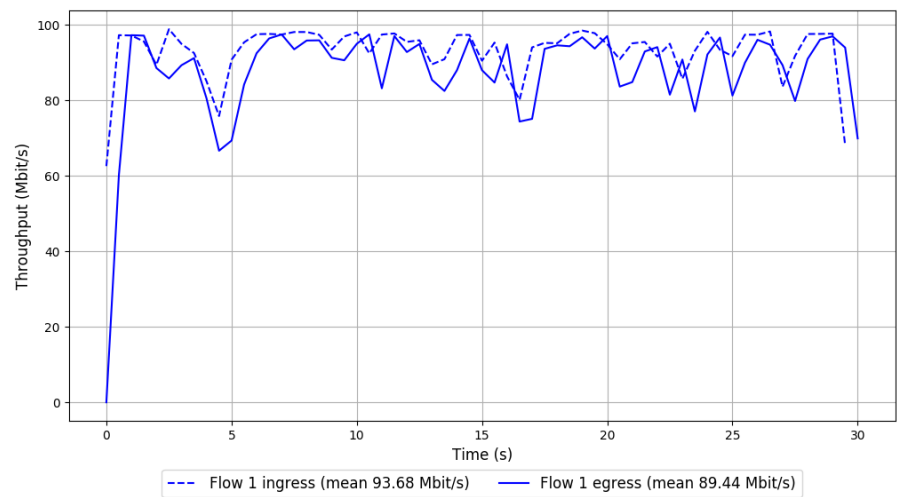
Run 9: Statistics of Indigo

Start at: 2018-05-22 00:06:37  
End at: 2018-05-22 00:07:07  
Local clock offset: -2.728 ms  
Remote clock offset: -8.424 ms

# Below is generated by plot.py at 2018-05-22 00:47:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 89.44 Mbit/s  
95th percentile per-packet one-way delay: 13.767 ms  
Loss rate: 4.52%  
-- Flow 1:  
Average throughput: 89.44 Mbit/s  
95th percentile per-packet one-way delay: 13.767 ms  
Loss rate: 4.52%



Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-22 00:24:26

End at: 2018-05-22 00:24:56

Local clock offset: -1.742 ms

Remote clock offset: 0.174 ms

# Below is generated by plot.py at 2018-05-22 00:47:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.94 Mbit/s

95th percentile per-packet one-way delay: 15.291 ms

Loss rate: 5.14%

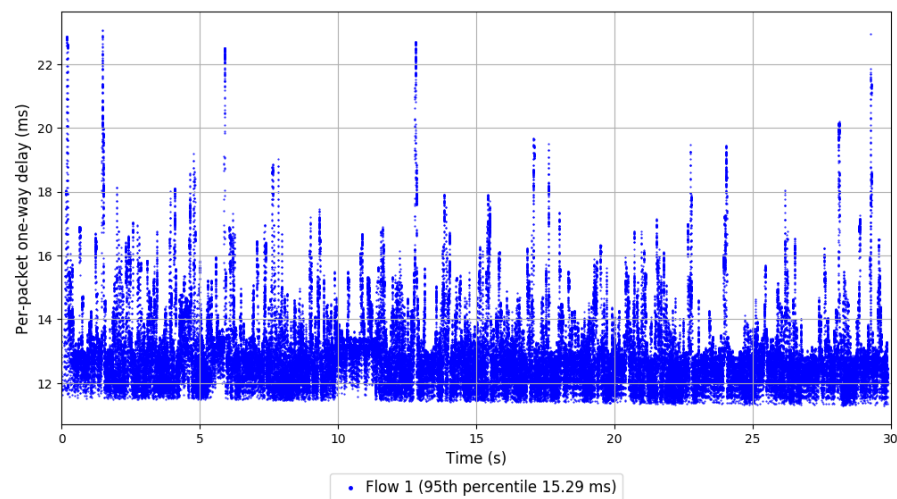
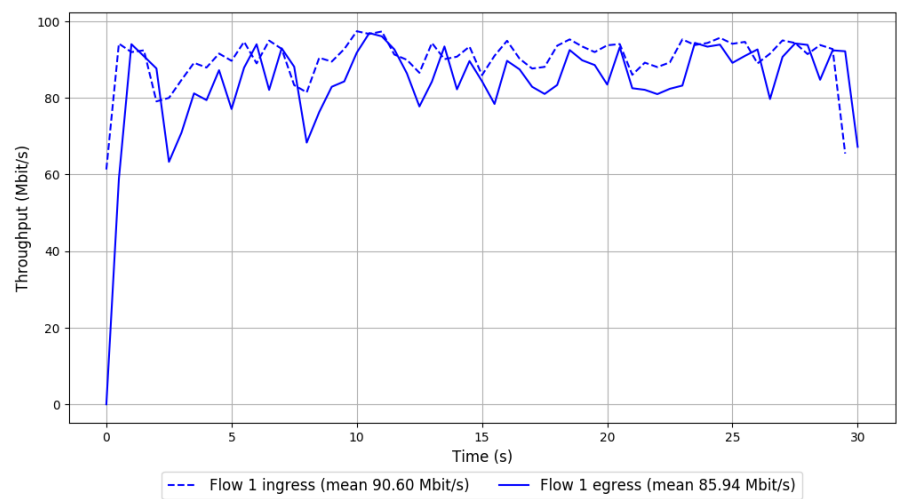
-- Flow 1:

Average throughput: 85.94 Mbit/s

95th percentile per-packet one-way delay: 15.291 ms

Loss rate: 5.14%

Run 10: Report of Indigo — Data Link

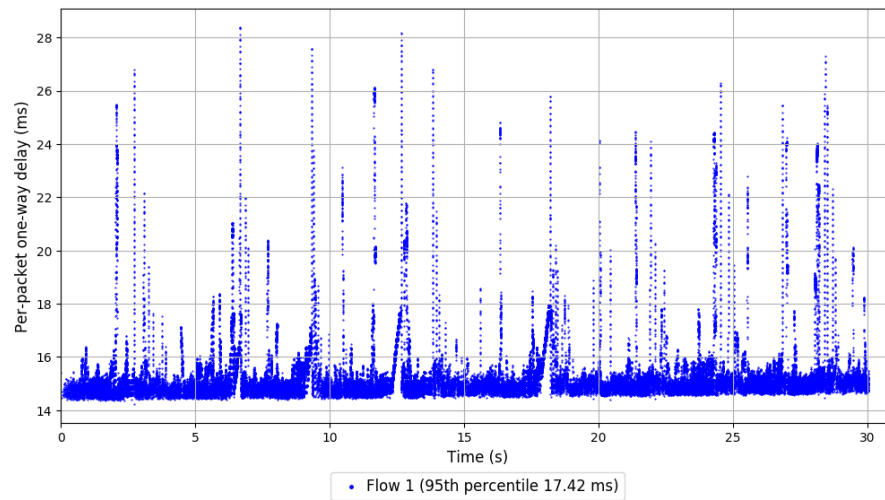
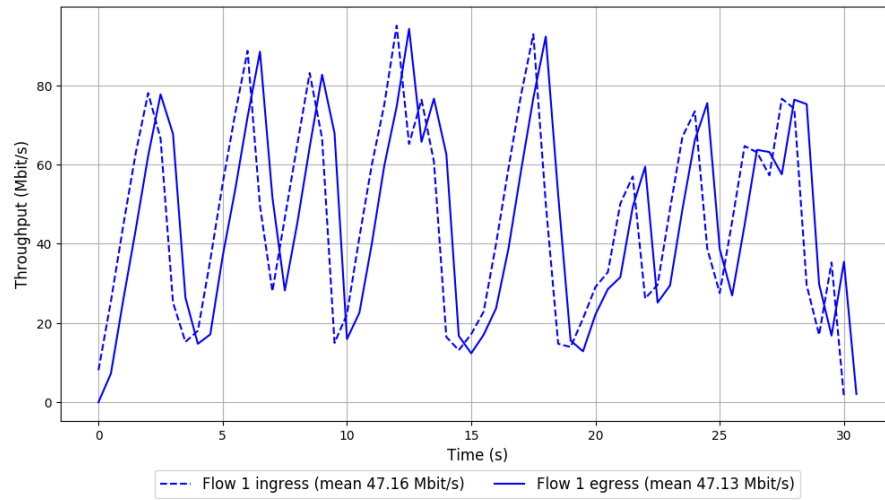


Run 1: Statistics of LEDBAT

Start at: 2018-05-21 21:56:31  
End at: 2018-05-21 21:57:01  
Local clock offset: -4.809 ms  
Remote clock offset: -0.985 ms

# Below is generated by plot.py at 2018-05-22 00:47:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 47.13 Mbit/s  
95th percentile per-packet one-way delay: 17.416 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 47.13 Mbit/s  
95th percentile per-packet one-way delay: 17.416 ms  
Loss rate: 0.06%

# Run 1: Report of LEDBAT — Data Link

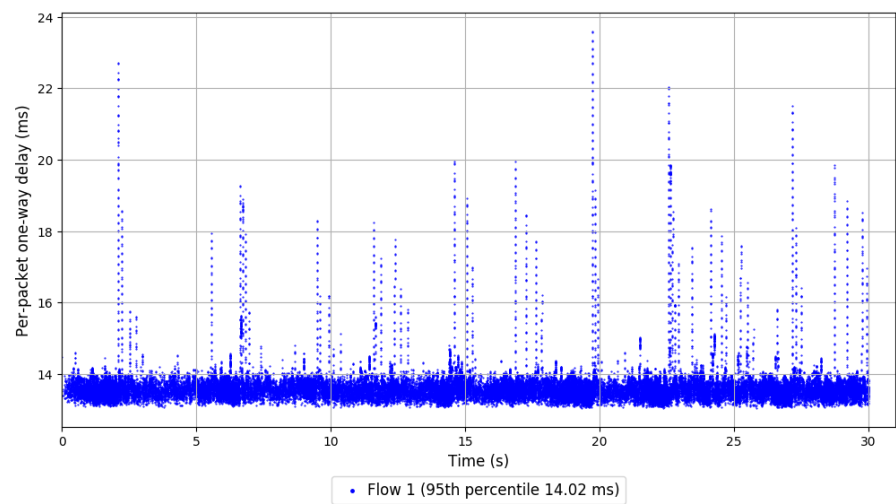
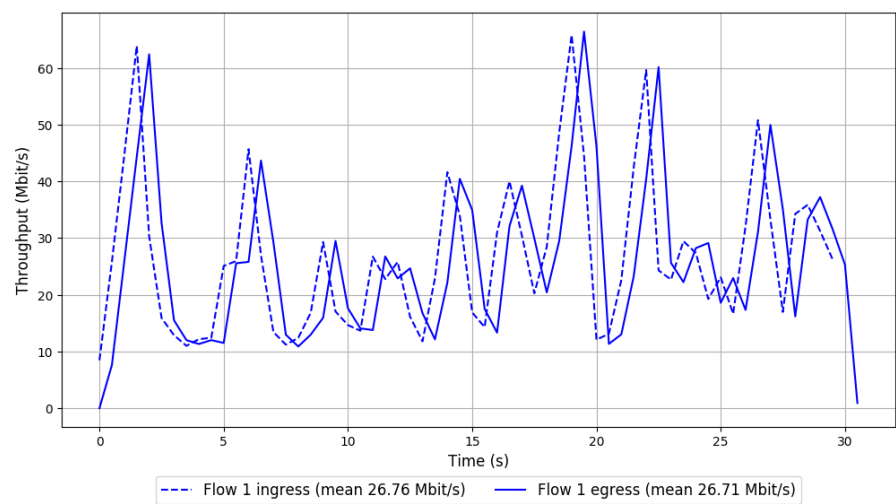


Run 2: Statistics of LEDBAT

Start at: 2018-05-21 22:14:20  
End at: 2018-05-21 22:14:50  
Local clock offset: -0.721 ms  
Remote clock offset: -1.899 ms

# Below is generated by plot.py at 2018-05-22 00:47:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 26.71 Mbit/s  
95th percentile per-packet one-way delay: 14.022 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 26.71 Mbit/s  
95th percentile per-packet one-way delay: 14.022 ms  
Loss rate: 0.22%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-05-21 22:32:05

End at: 2018-05-21 22:32:35

Local clock offset: 1.251 ms

Remote clock offset: -0.93 ms

# Below is generated by plot.py at 2018-05-22 00:47:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 17.19 Mbit/s

95th percentile per-packet one-way delay: 12.606 ms

Loss rate: 0.54%

-- Flow 1:

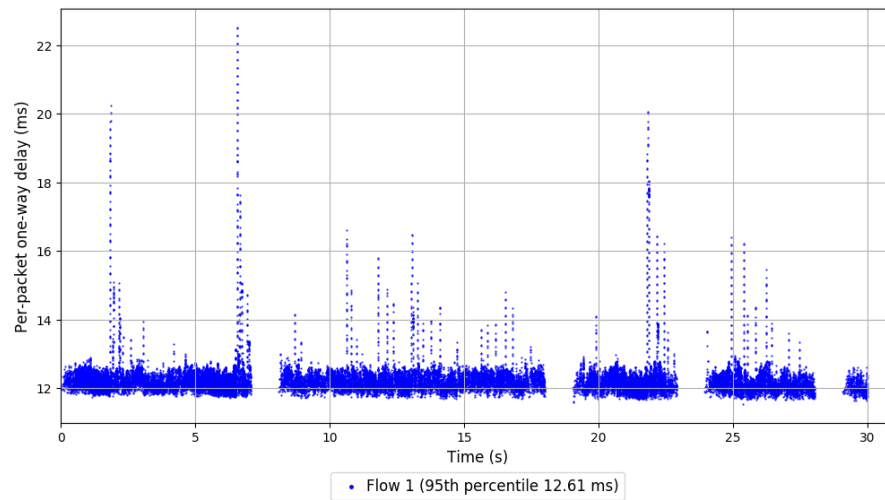
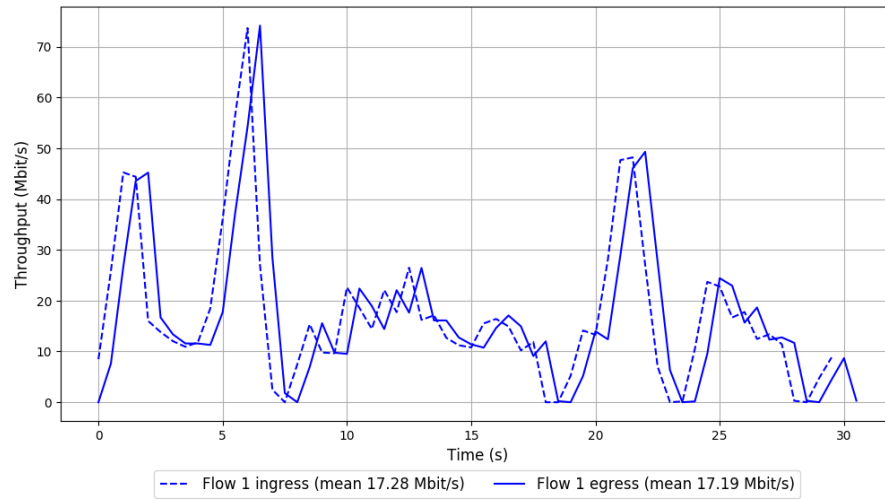
Average throughput: 17.19 Mbit/s

95th percentile per-packet one-way delay: 12.606 ms

Loss rate: 0.54%



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



Run 4: Statistics of LEDBAT

Start at: 2018-05-21 22:49:55

End at: 2018-05-21 22:50:25

Local clock offset: 0.366 ms

Remote clock offset: 1.226 ms

# Below is generated by plot.py at 2018-05-22 00:47:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 24.73 Mbit/s

95th percentile per-packet one-way delay: 13.516 ms

Loss rate: 0.32%

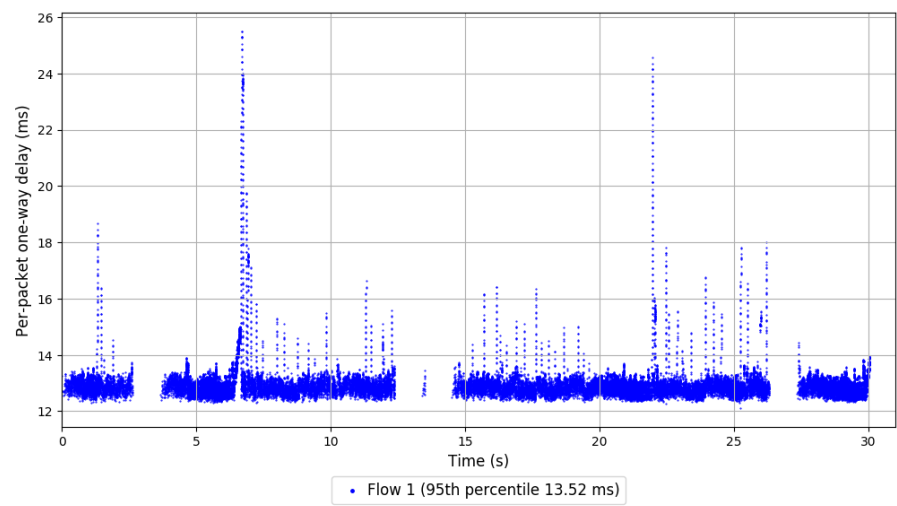
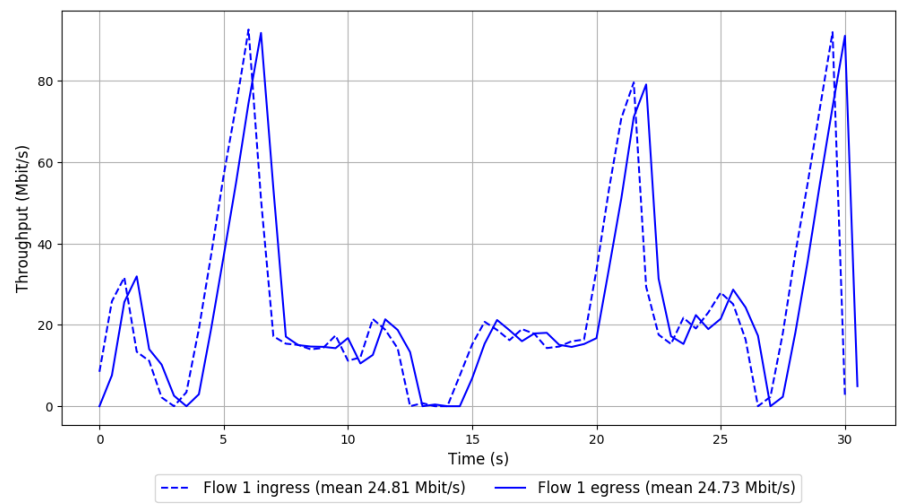
-- Flow 1:

Average throughput: 24.73 Mbit/s

95th percentile per-packet one-way delay: 13.516 ms

Loss rate: 0.32%

Run 4: Report of LEDBAT — Data Link

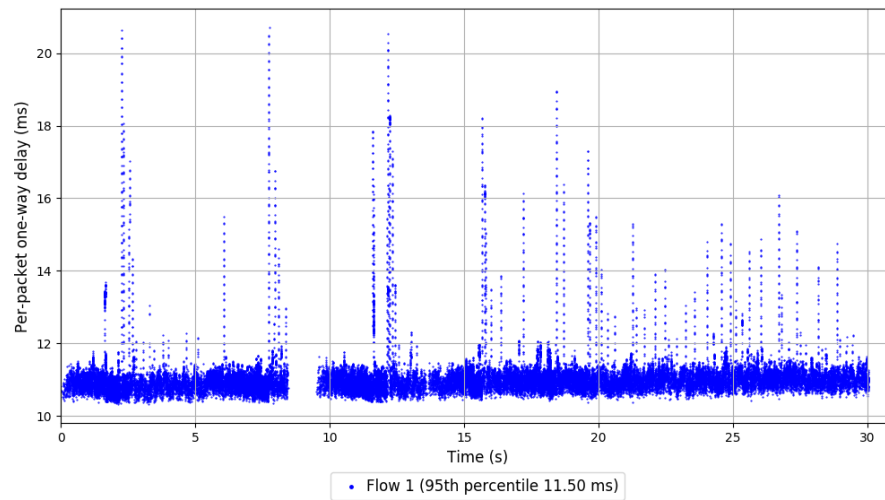
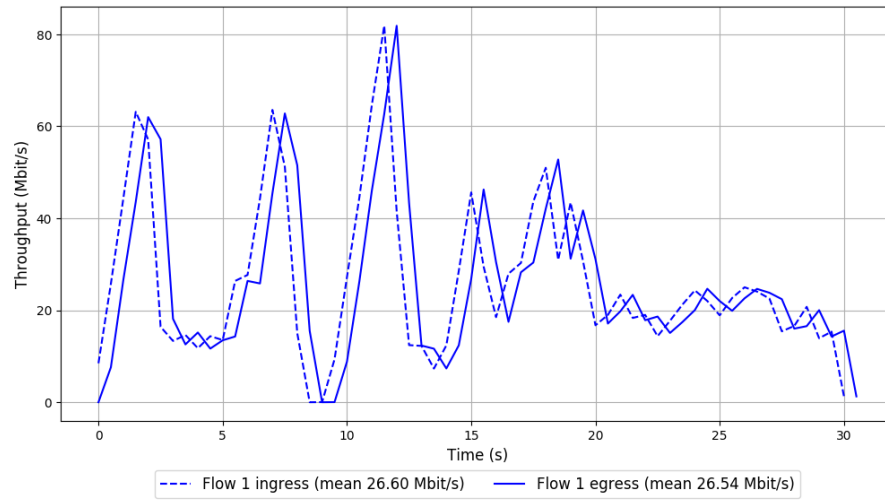


Run 5: Statistics of LEDBAT

Start at: 2018-05-21 23:07:41  
End at: 2018-05-21 23:08:11  
Local clock offset: -0.519 ms  
Remote clock offset: -0.434 ms

# Below is generated by plot.py at 2018-05-22 00:47:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 26.54 Mbit/s  
95th percentile per-packet one-way delay: 11.498 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 26.54 Mbit/s  
95th percentile per-packet one-way delay: 11.498 ms  
Loss rate: 0.21%

### Run 5: Report of LEDBAT — Data Link

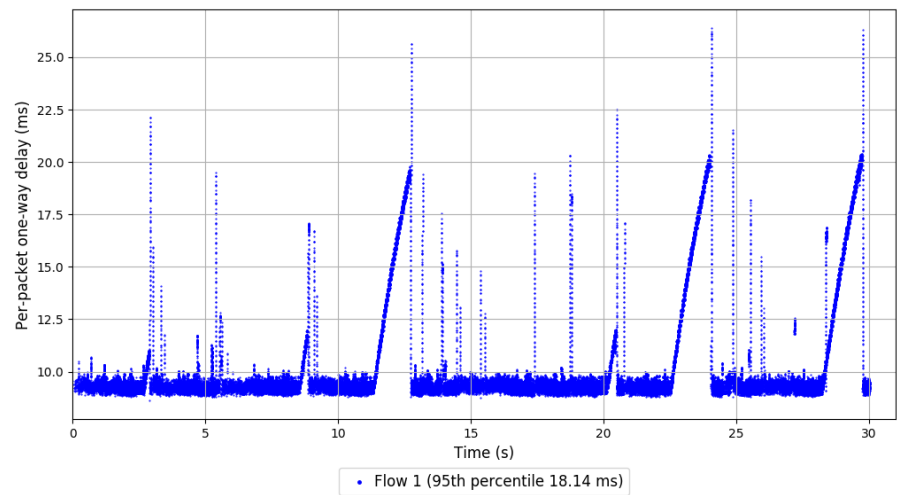
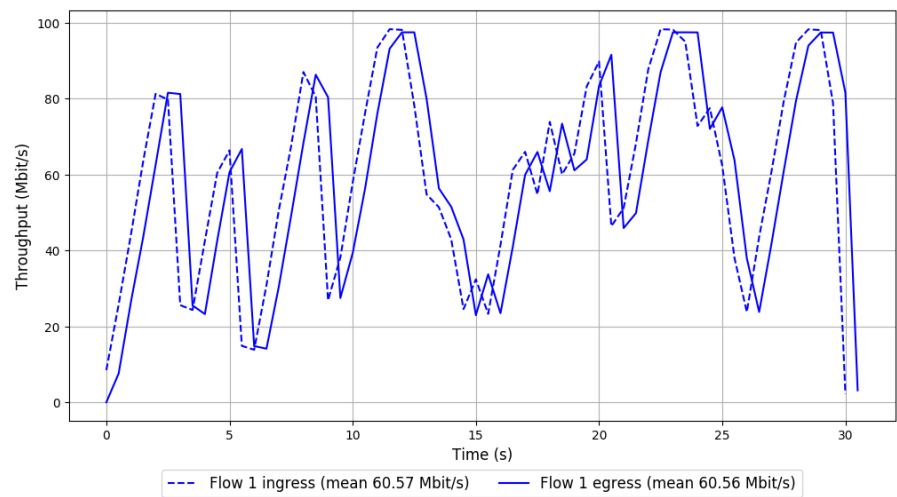


Run 6: Statistics of LEDBAT

Start at: 2018-05-21 23:25:27  
End at: 2018-05-21 23:25:58  
Local clock offset: -2.42 ms  
Remote clock offset: -6.053 ms

# Below is generated by plot.py at 2018-05-22 00:48:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 60.56 Mbit/s  
95th percentile per-packet one-way delay: 18.144 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 60.56 Mbit/s  
95th percentile per-packet one-way delay: 18.144 ms  
Loss rate: 0.03%

Run 6: Report of LEDBAT — Data Link



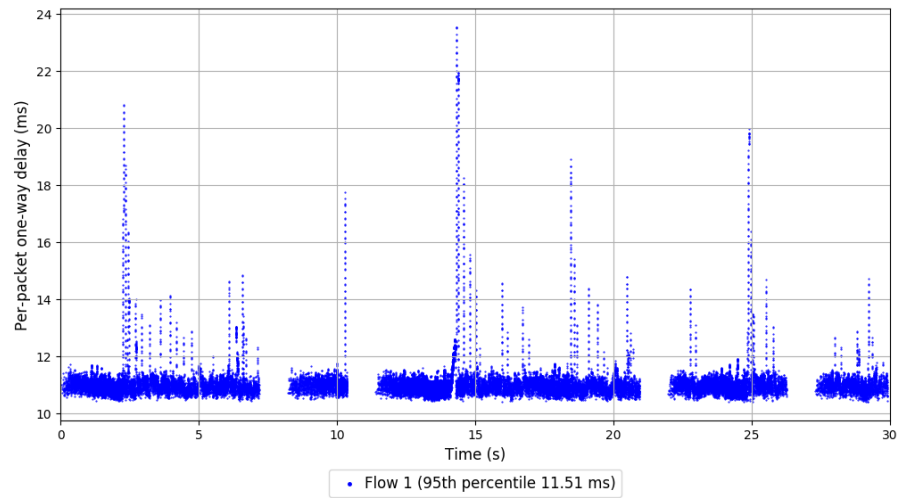
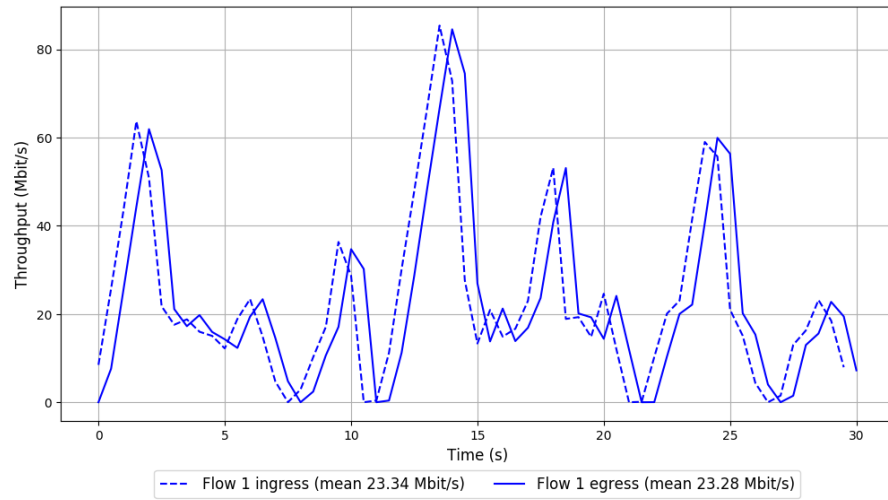
Run 7: Statistics of LEDBAT

Start at: 2018-05-21 23:43:21  
End at: 2018-05-21 23:43:51  
Local clock offset: -4.423 ms  
Remote clock offset: -6.566 ms

# Below is generated by plot.py at 2018-05-22 00:48:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 23.28 Mbit/s  
95th percentile per-packet one-way delay: 11.513 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 23.28 Mbit/s  
95th percentile per-packet one-way delay: 11.513 ms  
Loss rate: 0.32%



## Run 7: Report of LEDBAT — Data Link

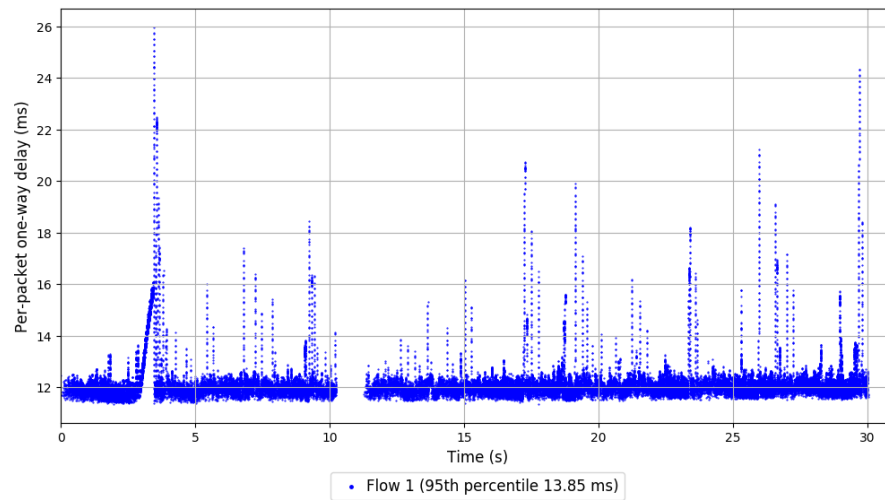
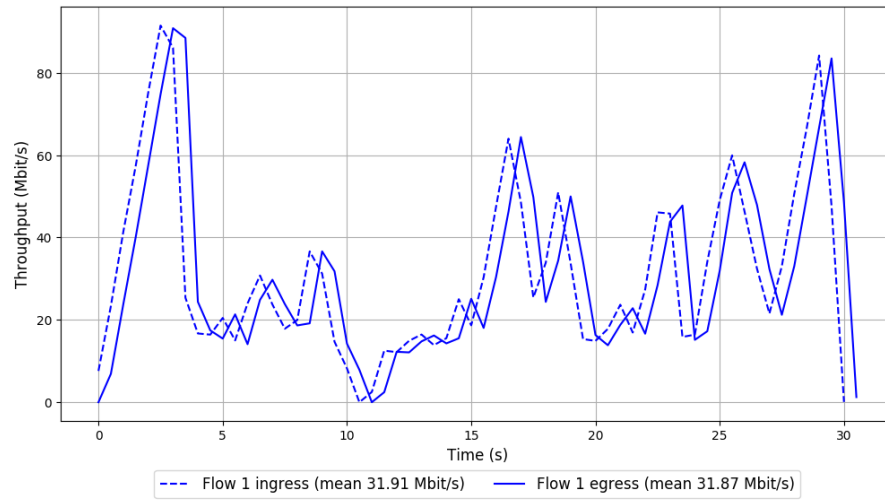


Run 8: Statistics of LEDBAT

Start at: 2018-05-22 00:01:04  
End at: 2018-05-22 00:01:34  
Local clock offset: -4.182 ms  
Remote clock offset: -7.664 ms

# Below is generated by plot.py at 2018-05-22 00:48:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 31.87 Mbit/s  
95th percentile per-packet one-way delay: 13.848 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 31.87 Mbit/s  
95th percentile per-packet one-way delay: 13.848 ms  
Loss rate: 0.14%

## Run 8: Report of LEDBAT — Data Link

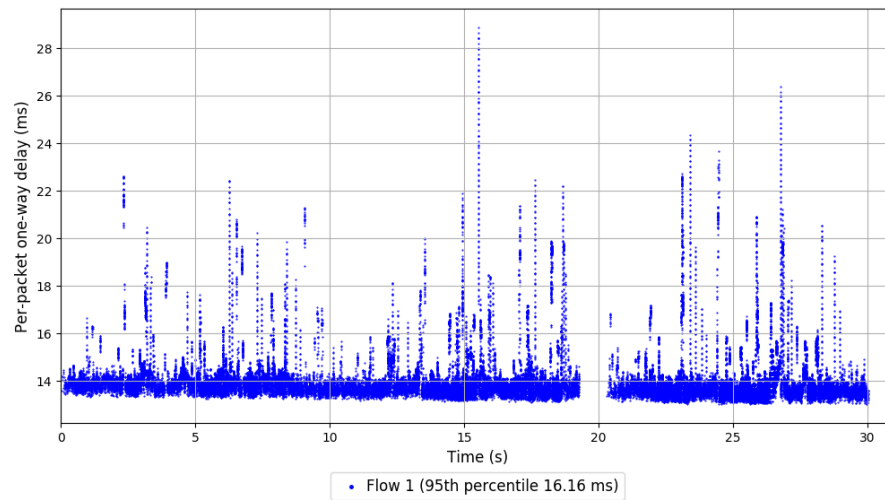
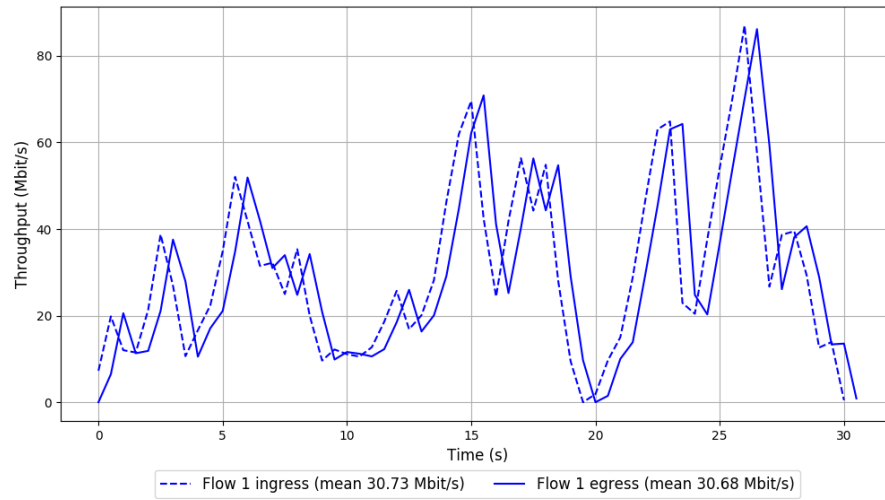


Run 9: Statistics of LEDBAT

Start at: 2018-05-22 00:18:54  
End at: 2018-05-22 00:19:24  
Local clock offset: -4.154 ms  
Remote clock offset: -3.152 ms

# Below is generated by plot.py at 2018-05-22 00:48:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 30.68 Mbit/s  
95th percentile per-packet one-way delay: 16.156 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 30.68 Mbit/s  
95th percentile per-packet one-way delay: 16.156 ms  
Loss rate: 0.15%

### Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-05-22 00:36:51

End at: 2018-05-22 00:37:21

Local clock offset: -1.91 ms

Remote clock offset: 1.075 ms

# Below is generated by plot.py at 2018-05-22 00:48:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 30.26 Mbit/s

95th percentile per-packet one-way delay: 13.202 ms

Loss rate: 0.11%

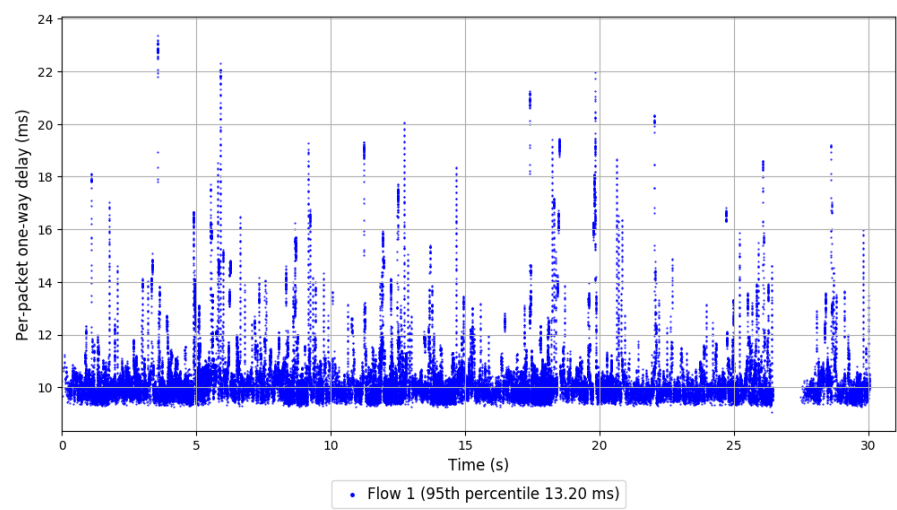
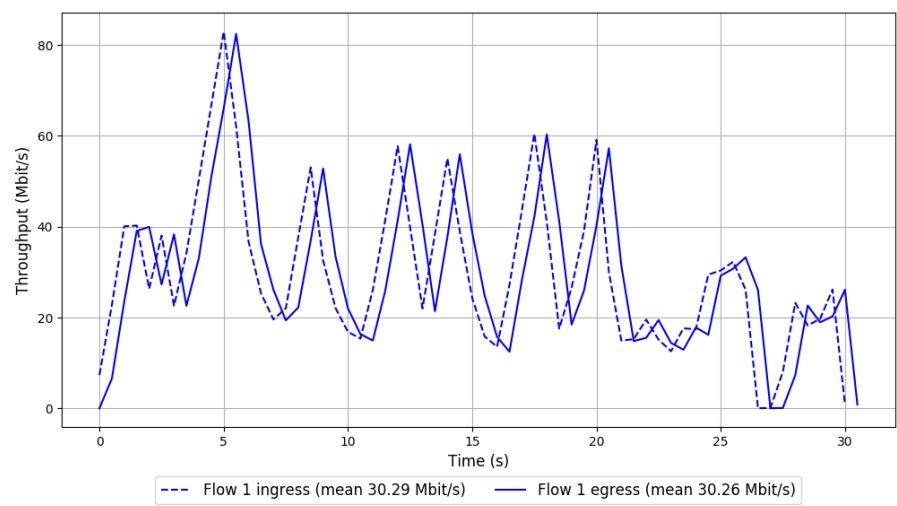
-- Flow 1:

Average throughput: 30.26 Mbit/s

95th percentile per-packet one-way delay: 13.202 ms

Loss rate: 0.11%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-05-21 21:54:19

End at: 2018-05-21 21:54:49

Local clock offset: -4.019 ms

Remote clock offset: -1.246 ms

# Below is generated by plot.py at 2018-05-22 00:48:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 67.45 Mbit/s

95th percentile per-packet one-way delay: 14.462 ms

Loss rate: 8.84%

-- Flow 1:

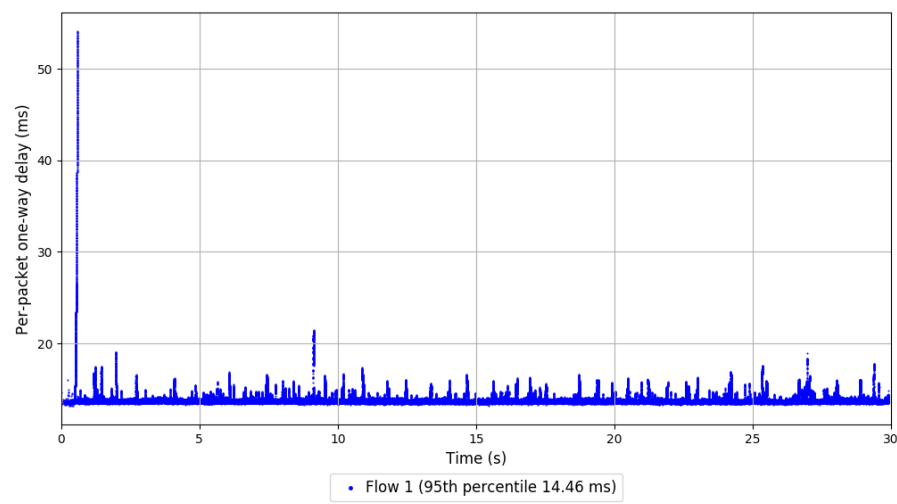
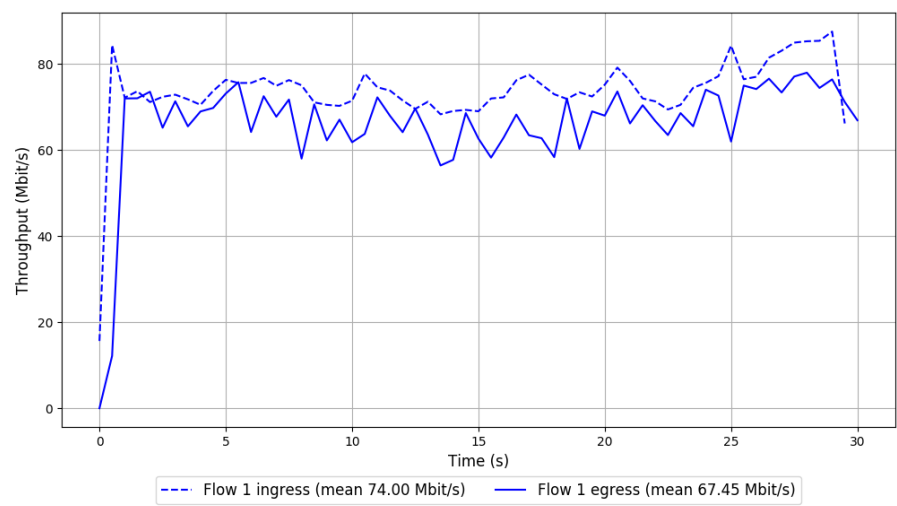
Average throughput: 67.45 Mbit/s

95th percentile per-packet one-way delay: 14.462 ms

Loss rate: 8.84%



Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-21 22:12:08

End at: 2018-05-21 22:12:38

Local clock offset: -1.892 ms

Remote clock offset: -1.41 ms

# Below is generated by plot.py at 2018-05-22 00:48:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.03 Mbit/s

95th percentile per-packet one-way delay: 15.629 ms

Loss rate: 12.06%

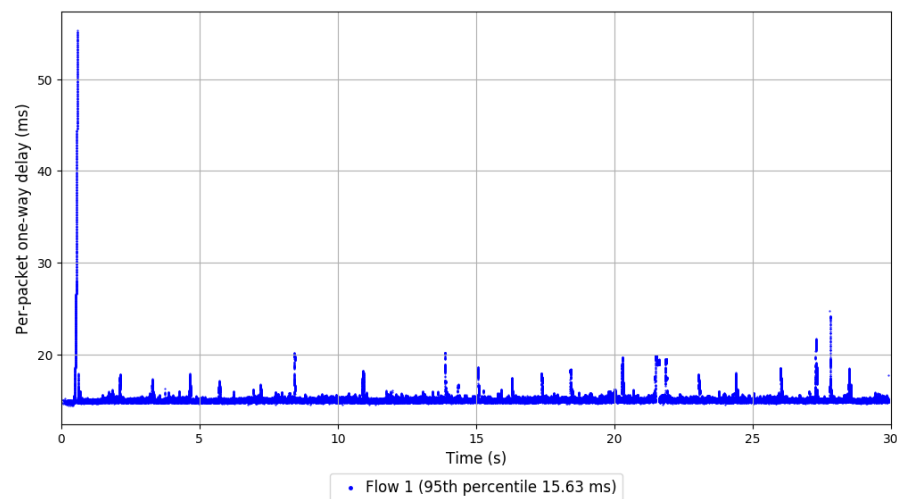
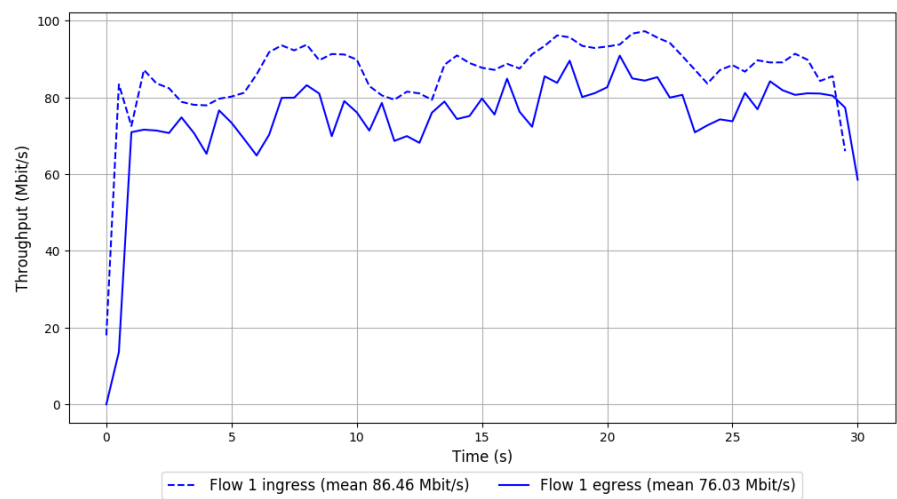
-- Flow 1:

Average throughput: 76.03 Mbit/s

95th percentile per-packet one-way delay: 15.629 ms

Loss rate: 12.06%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-21 22:29:53

End at: 2018-05-21 22:30:23

Local clock offset: -1.982 ms

Remote clock offset: -1.75 ms

# Below is generated by plot.py at 2018-05-22 00:48:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 64.21 Mbit/s

95th percentile per-packet one-way delay: 15.165 ms

Loss rate: 12.80%

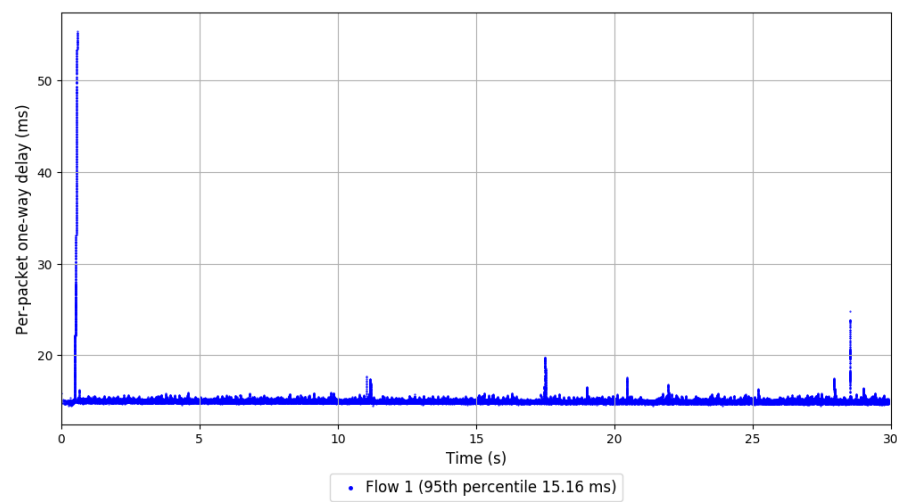
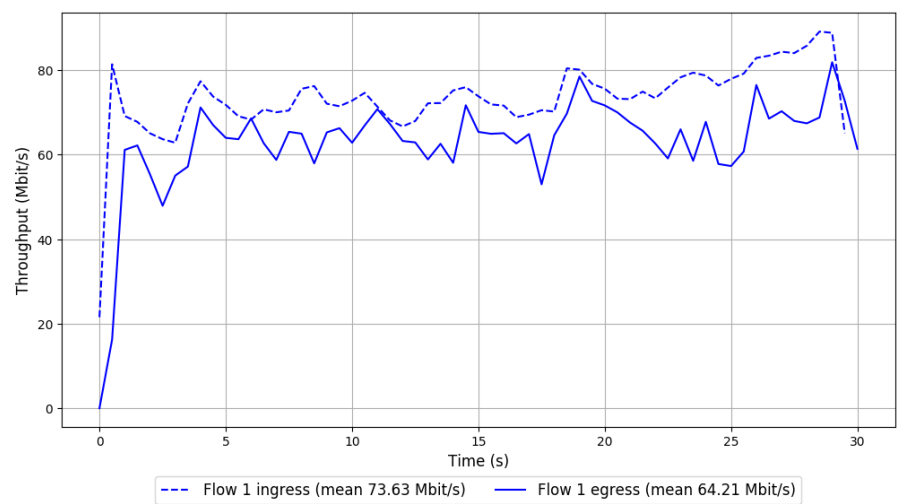
-- Flow 1:

Average throughput: 64.21 Mbit/s

95th percentile per-packet one-way delay: 15.165 ms

Loss rate: 12.80%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-21 22:47:42

End at: 2018-05-21 22:48:12

Local clock offset: -0.027 ms

Remote clock offset: 1.026 ms

# Below is generated by plot.py at 2018-05-22 00:48:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 72.93 Mbit/s

95th percentile per-packet one-way delay: 13.173 ms

Loss rate: 5.59%

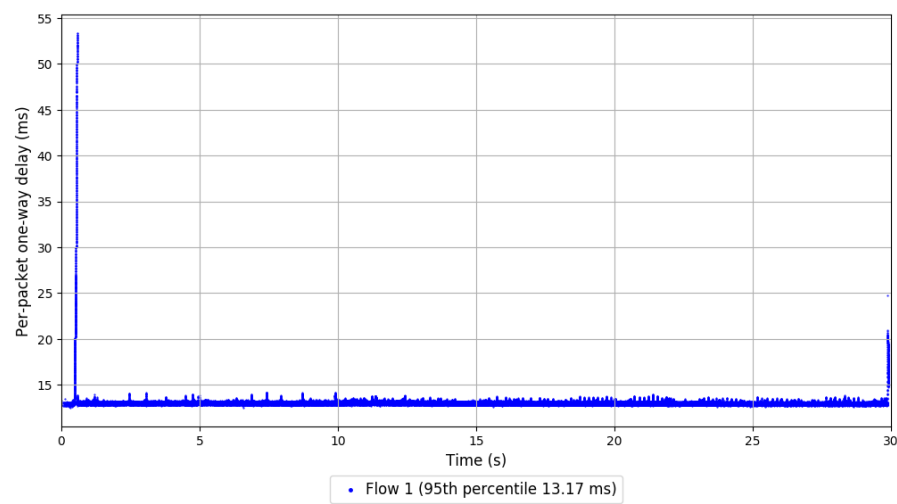
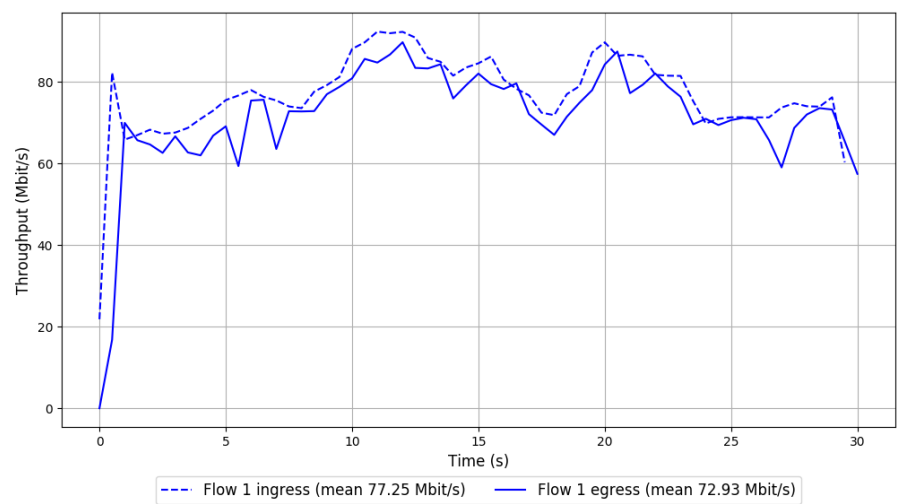
-- Flow 1:

Average throughput: 72.93 Mbit/s

95th percentile per-packet one-way delay: 13.173 ms

Loss rate: 5.59%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-05-21 23:05:27

End at: 2018-05-21 23:05:57

Local clock offset: -2.004 ms

Remote clock offset: 1.069 ms

# Below is generated by plot.py at 2018-05-22 00:49:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.33 Mbit/s

95th percentile per-packet one-way delay: 14.941 ms

Loss rate: 3.05%

-- Flow 1:

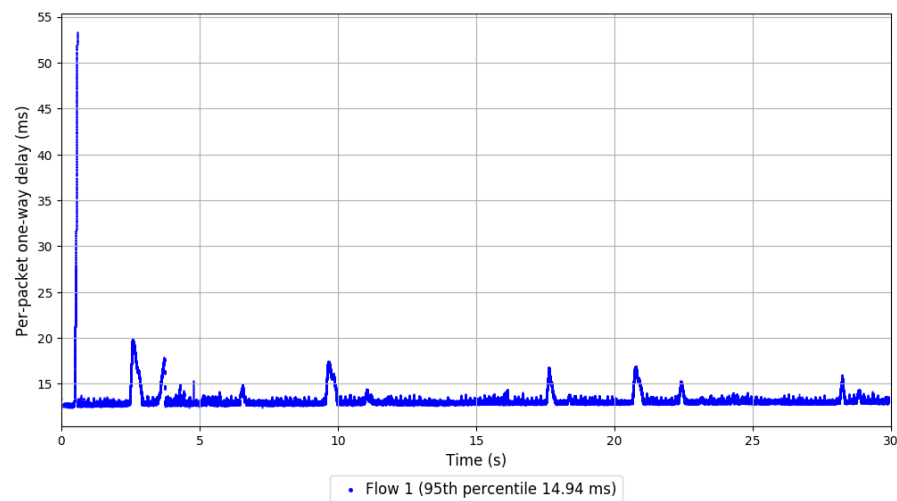
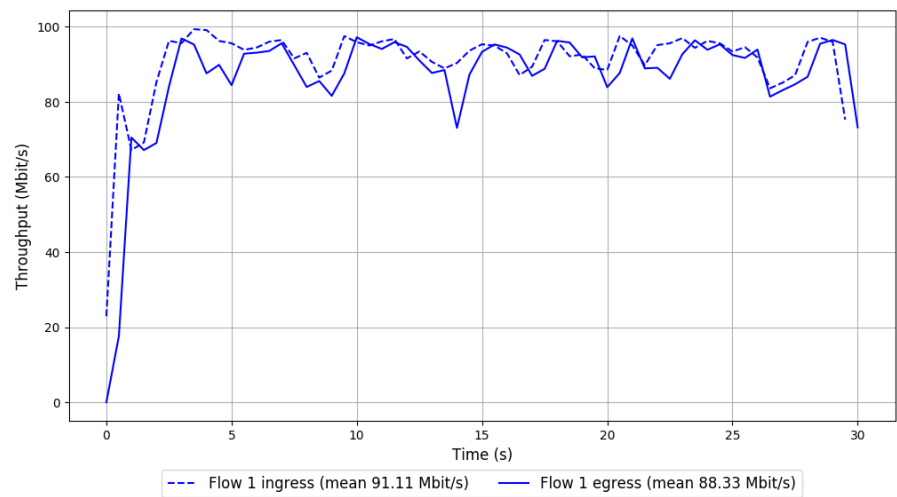
Average throughput: 88.33 Mbit/s

95th percentile per-packet one-way delay: 14.941 ms

Loss rate: 3.05%



Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-05-21 23:23:13

End at: 2018-05-21 23:23:43

Local clock offset: -6.059 ms

Remote clock offset: -3.953 ms

# Below is generated by plot.py at 2018-05-22 00:49:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.80 Mbit/s

95th percentile per-packet one-way delay: 16.615 ms

Loss rate: 1.87%

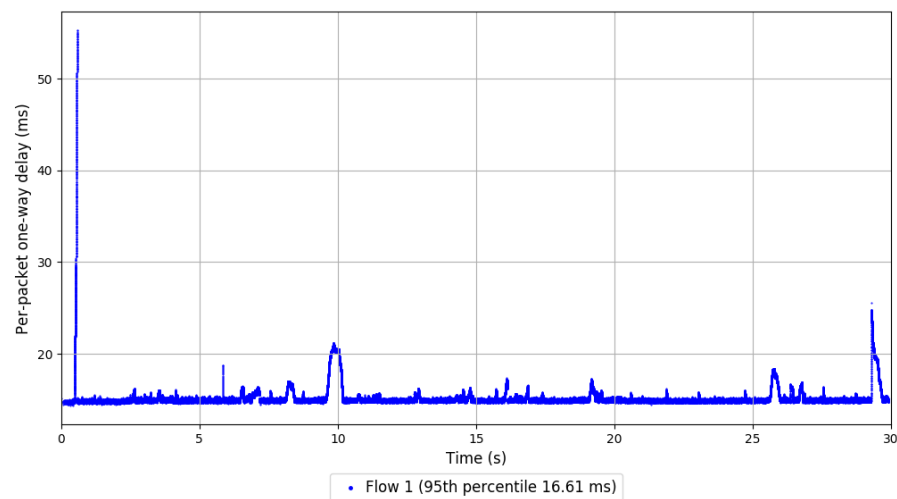
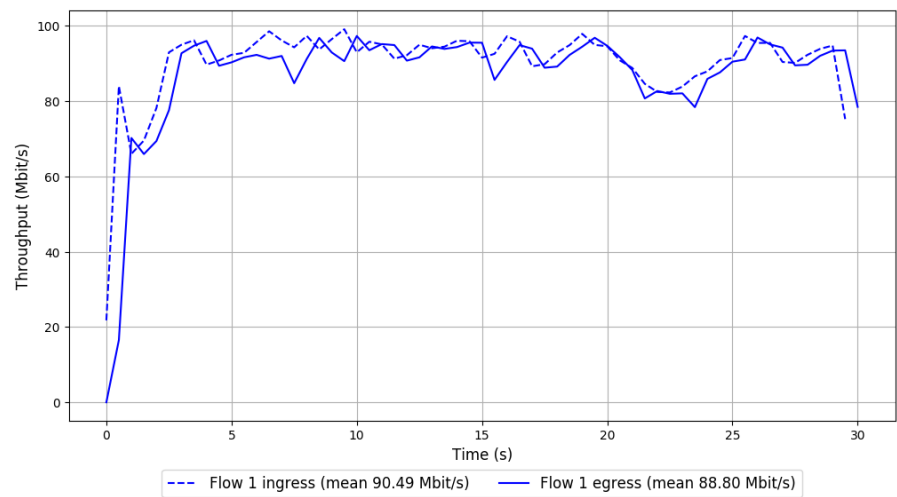
-- Flow 1:

Average throughput: 88.80 Mbit/s

95th percentile per-packet one-way delay: 16.615 ms

Loss rate: 1.87%

Run 6: Report of PCC-Allegro — Data Link

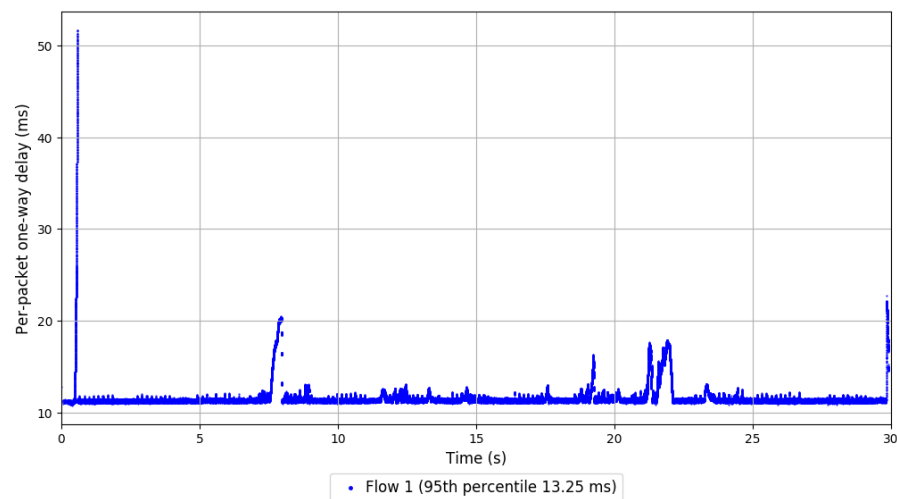
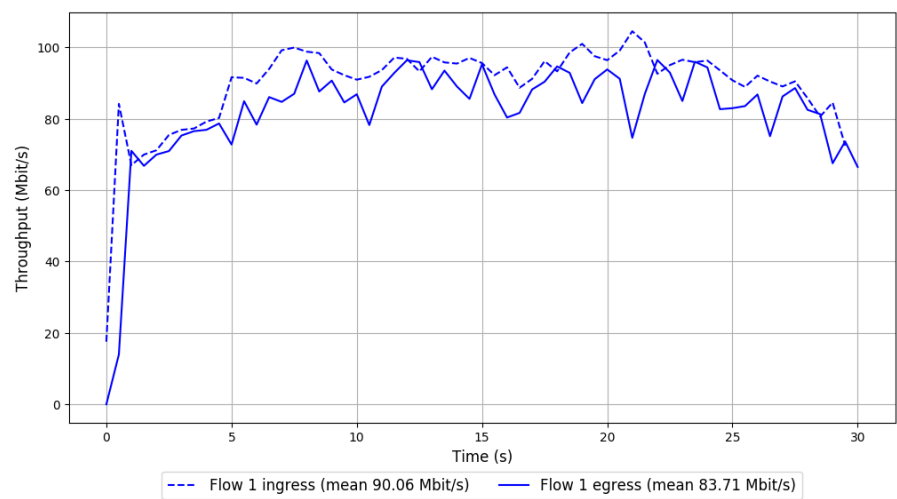


Run 7: Statistics of PCC-Allegro

Start at: 2018-05-21 23:41:08  
End at: 2018-05-21 23:41:39  
Local clock offset: -5.332 ms  
Remote clock offset: -6.919 ms

# Below is generated by plot.py at 2018-05-22 00:49:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 83.71 Mbit/s  
95th percentile per-packet one-way delay: 13.253 ms  
Loss rate: 7.05%  
-- Flow 1:  
Average throughput: 83.71 Mbit/s  
95th percentile per-packet one-way delay: 13.253 ms  
Loss rate: 7.05%

Run 7: Report of PCC-Allegro — Data Link

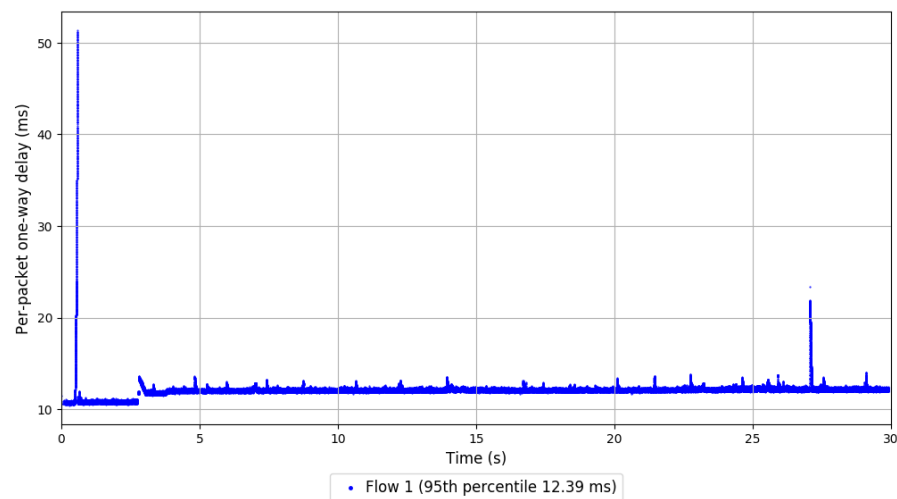
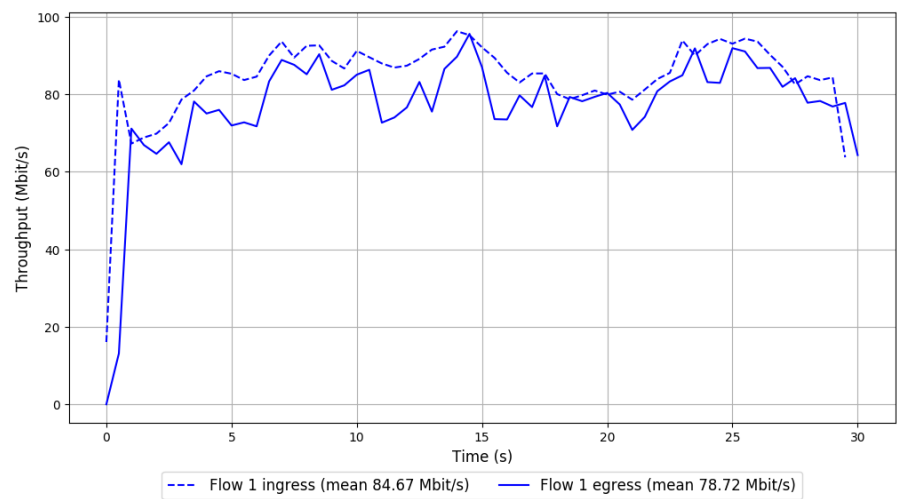


Run 8: Statistics of PCC-Allegro

Start at: 2018-05-21 23:58:51  
End at: 2018-05-21 23:59:21  
Local clock offset: -4.587 ms  
Remote clock offset: -7.997 ms

# Below is generated by plot.py at 2018-05-22 00:49:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 78.72 Mbit/s  
95th percentile per-packet one-way delay: 12.387 ms  
Loss rate: 7.03%  
-- Flow 1:  
Average throughput: 78.72 Mbit/s  
95th percentile per-packet one-way delay: 12.387 ms  
Loss rate: 7.03%

Run 8: Report of PCC-Allegro — Data Link



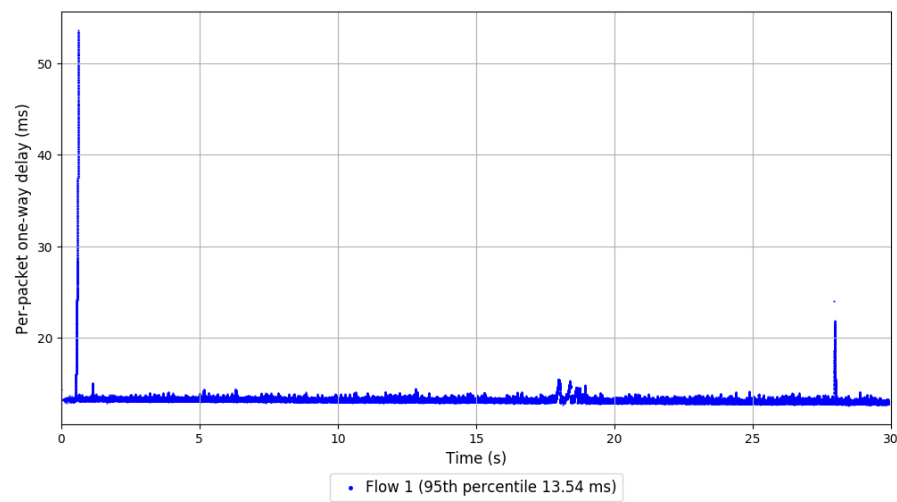
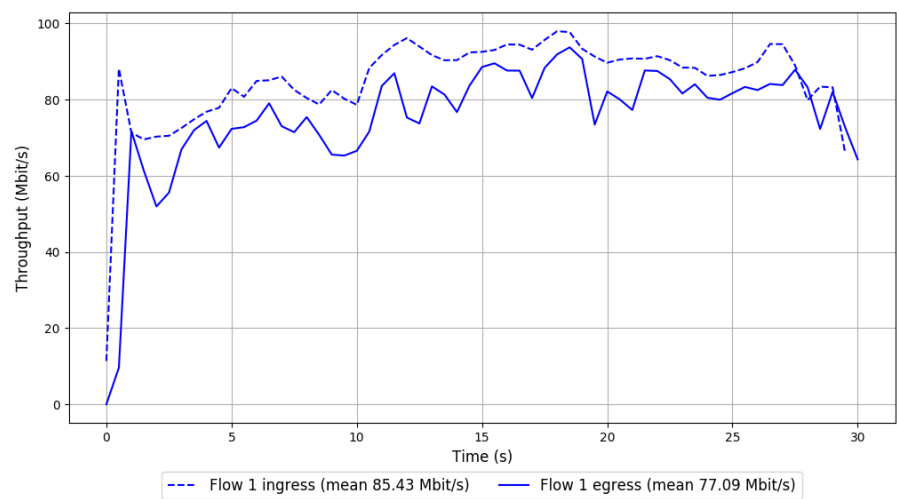
Run 9: Statistics of PCC-Allegro

Start at: 2018-05-22 00:16:41  
End at: 2018-05-22 00:17:11  
Local clock offset: -3.836 ms  
Remote clock offset: -5.813 ms

# Below is generated by plot.py at 2018-05-22 00:49:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 77.09 Mbit/s  
95th percentile per-packet one-way delay: 13.537 ms  
Loss rate: 9.76%  
-- Flow 1:  
Average throughput: 77.09 Mbit/s  
95th percentile per-packet one-way delay: 13.537 ms  
Loss rate: 9.76%



Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-05-22 00:34:35

End at: 2018-05-22 00:35:05

Local clock offset: -1.416 ms

Remote clock offset: 2.404 ms

# Below is generated by plot.py at 2018-05-22 00:49:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.56 Mbit/s

95th percentile per-packet one-way delay: 12.980 ms

Loss rate: 7.73%

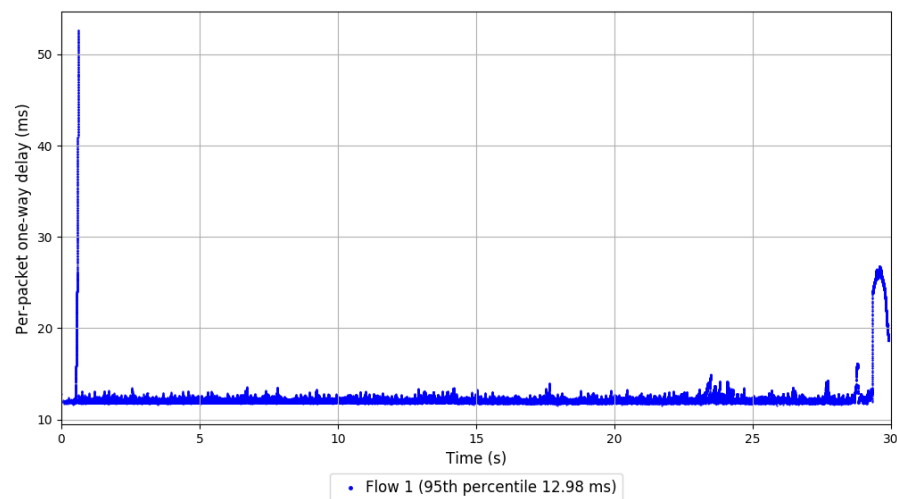
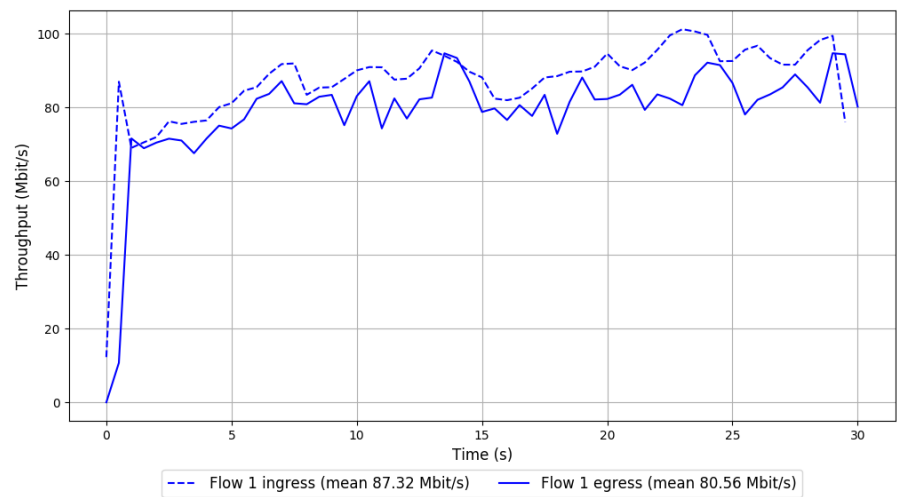
-- Flow 1:

Average throughput: 80.56 Mbit/s

95th percentile per-packet one-way delay: 12.980 ms

Loss rate: 7.73%

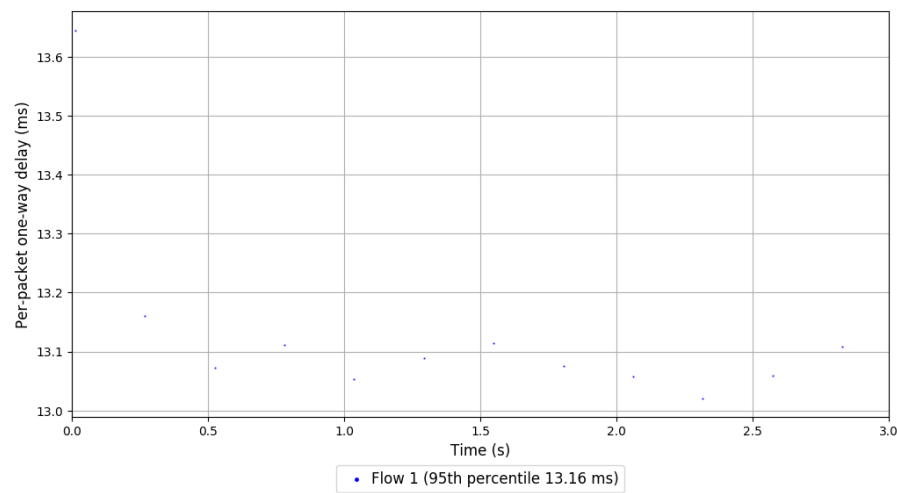
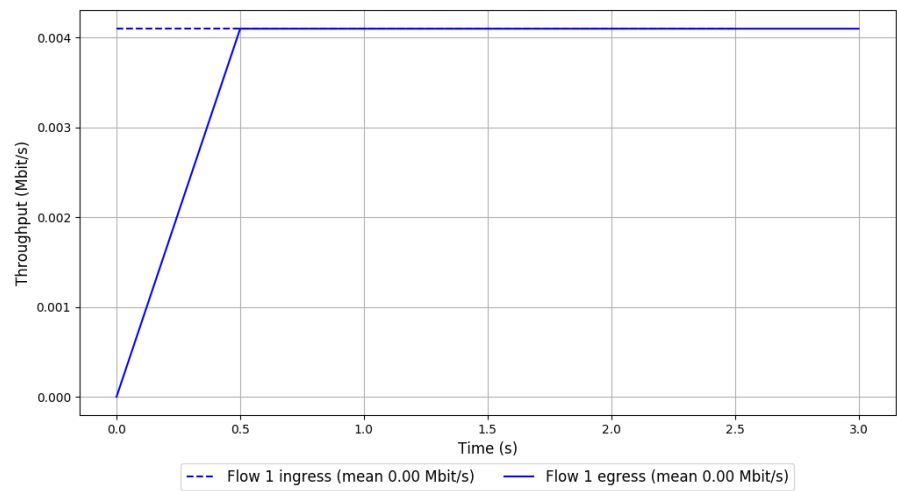
Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-05-21 21:53:10  
End at: 2018-05-21 21:53:40  
Local clock offset: -3.013 ms  
Remote clock offset: -0.664 ms

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

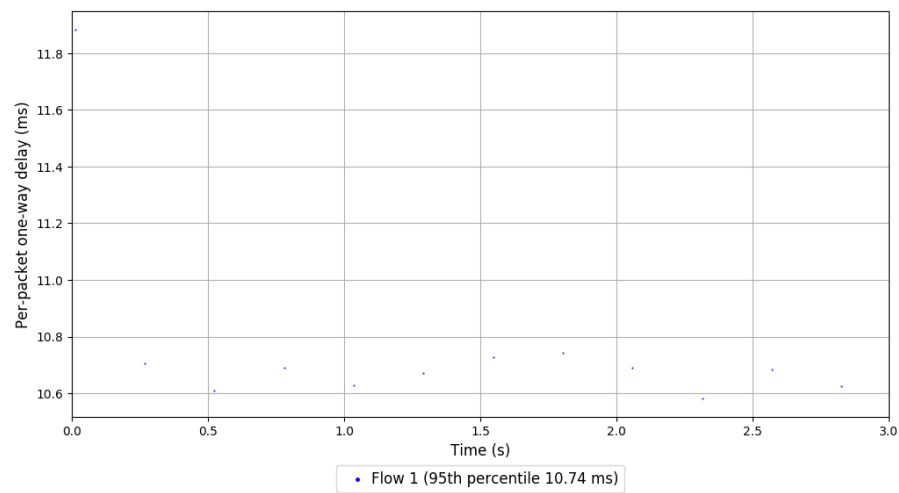
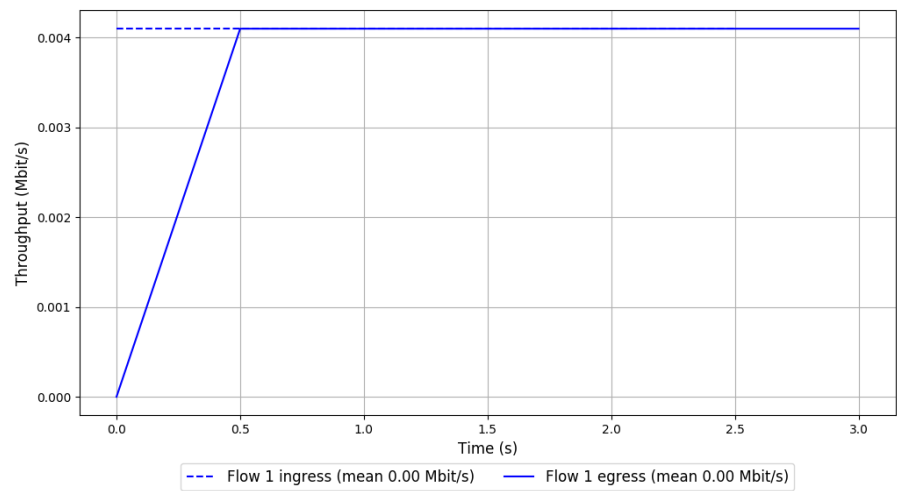
Start at: 2018-05-21 22:11:04

End at: 2018-05-21 22:11:34

Local clock offset: 1.25 ms

Remote clock offset: -2.213 ms

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-05-21 22:28:49

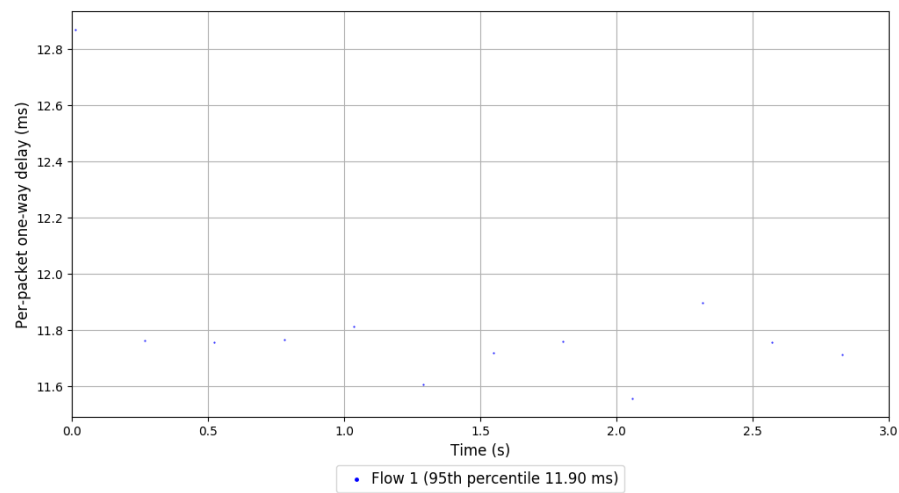
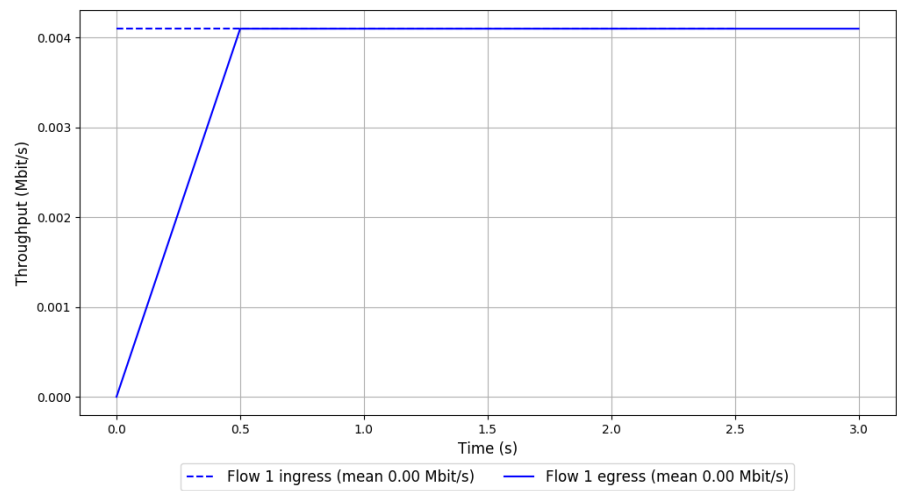
End at: 2018-05-21 22:29:19

Local clock offset: 0.617 ms

Remote clock offset: -2.122 ms



Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

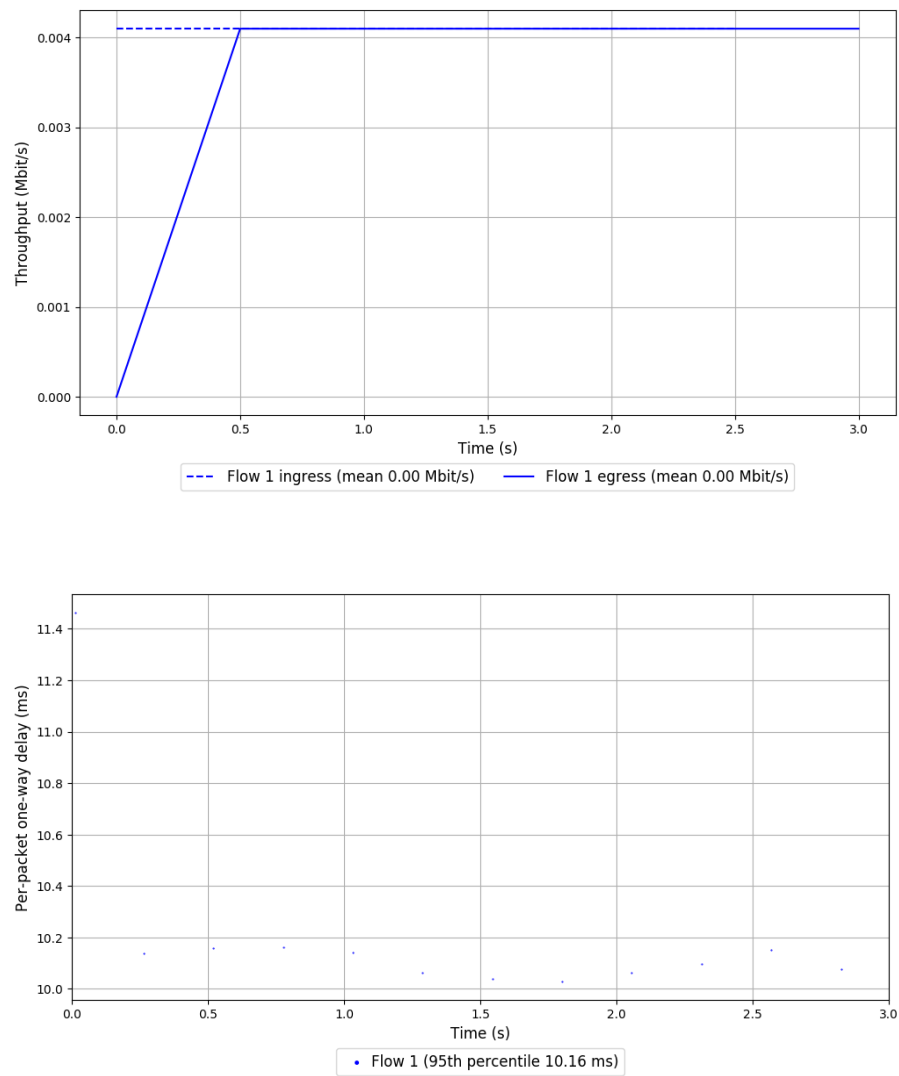
Start at: 2018-05-21 22:46:37

End at: 2018-05-21 22:47:07

Local clock offset: 1.717 ms

Remote clock offset: 0.072 ms

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

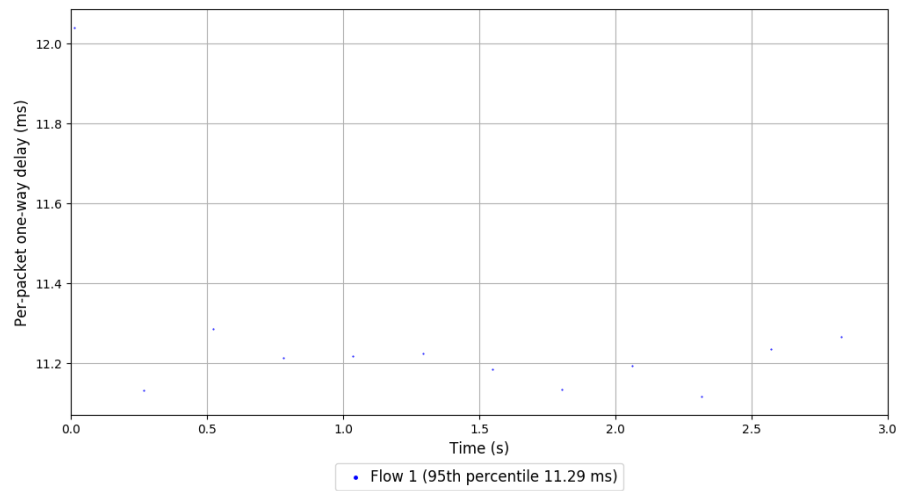
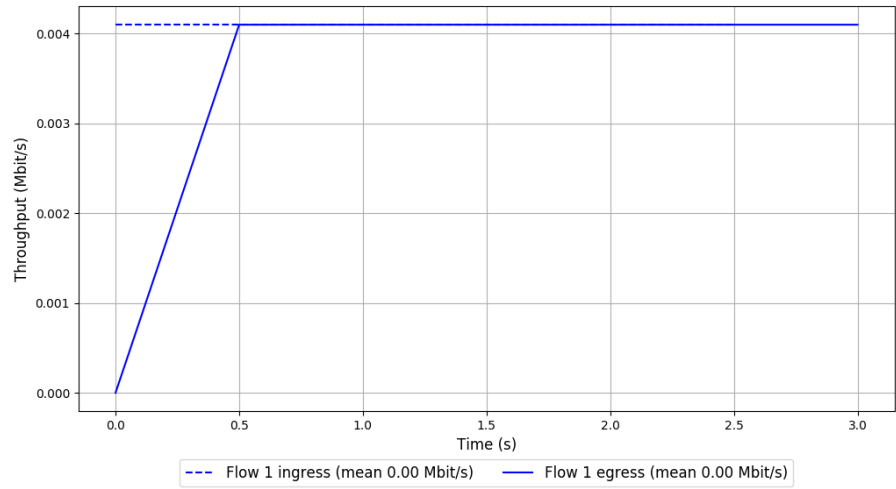
Start at: 2018-05-21 23:04:23

End at: 2018-05-21 23:04:53

Local clock offset: 0.154 ms

Remote clock offset: 2.363 ms

### Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

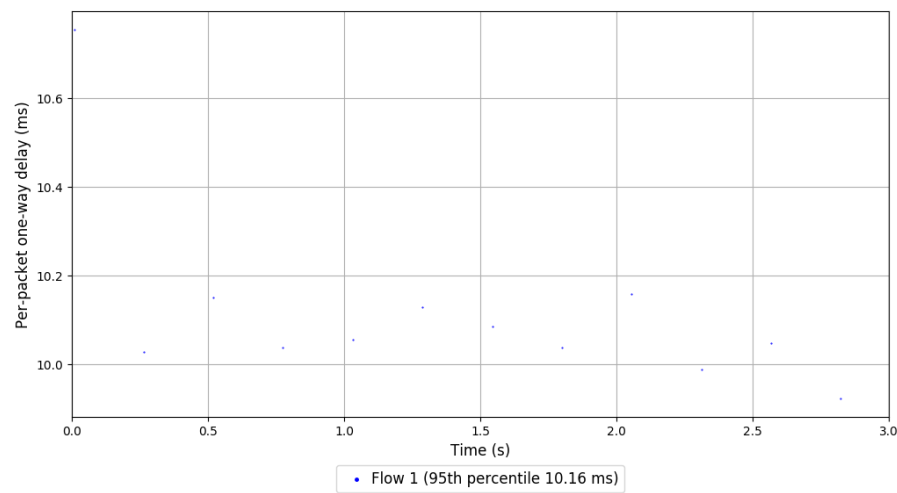
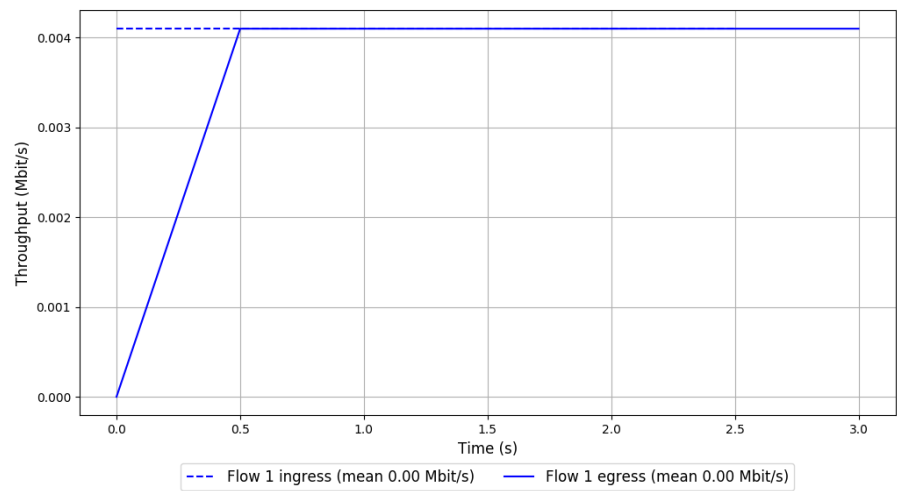
Start at: 2018-05-21 23:22:09

End at: 2018-05-21 23:22:39

Local clock offset: -2.992 ms

Remote clock offset: -5.326 ms

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-05-21 23:40:04

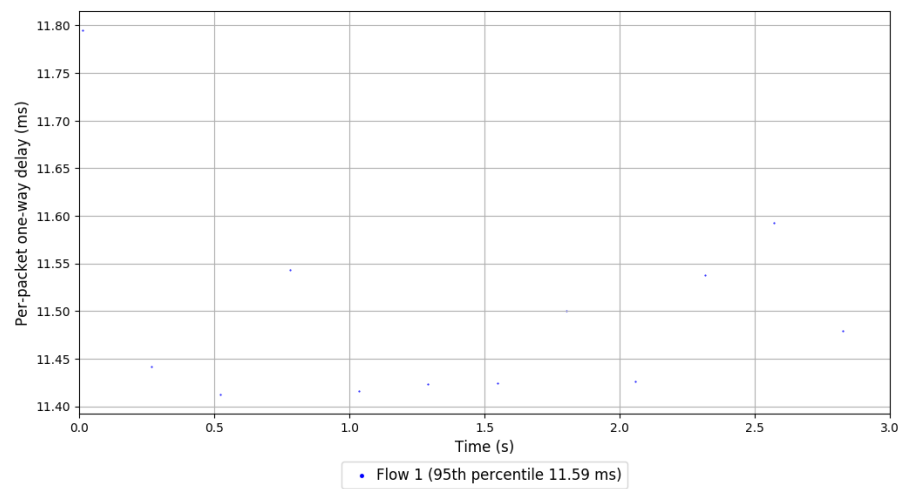
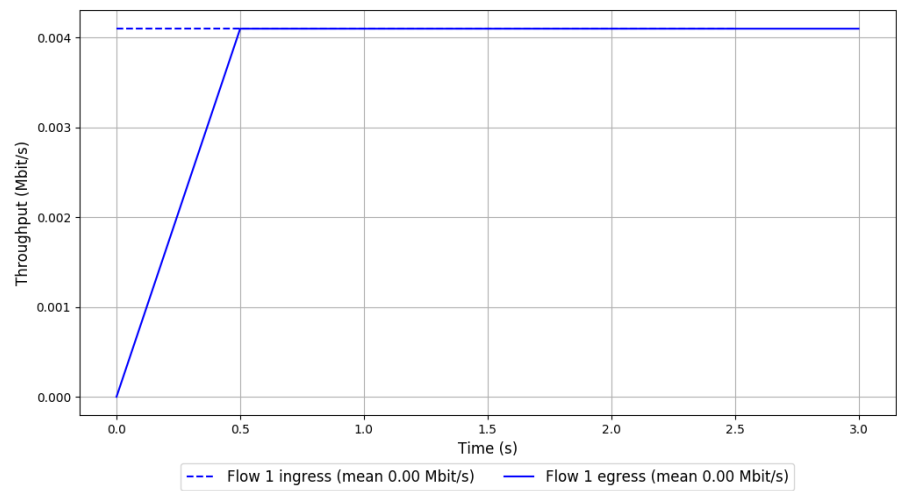
End at: 2018-05-21 23:40:34

Local clock offset: -4.758 ms

Remote clock offset: -5.858 ms



Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

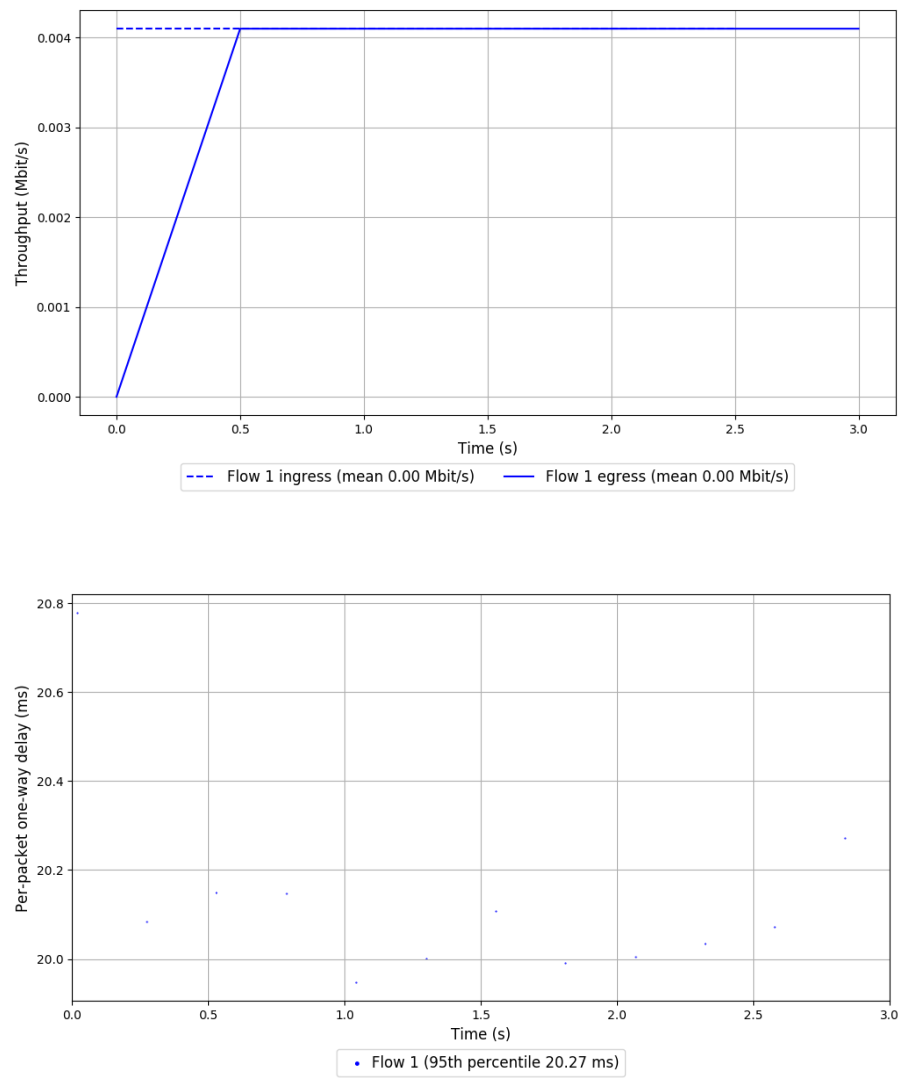
Start at: 2018-05-21 23:57:47

End at: 2018-05-21 23:58:17

Local clock offset: -14.295 ms

Remote clock offset: -7.658 ms

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

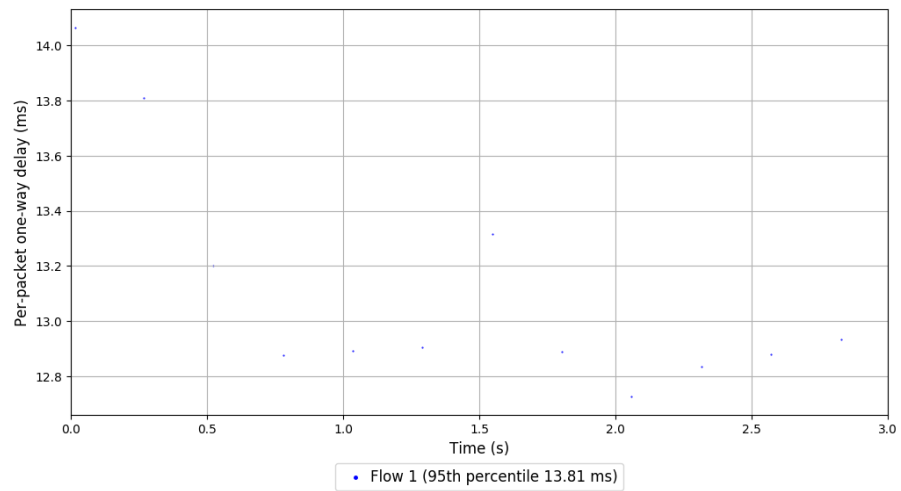
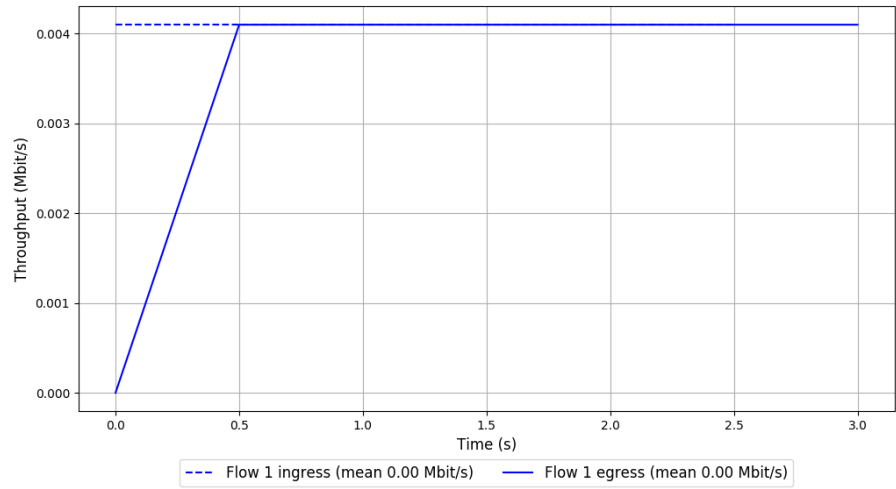
Start at: 2018-05-22 00:15:37

End at: 2018-05-22 00:16:07

Local clock offset: -4.213 ms

Remote clock offset: -6.092 ms

### Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

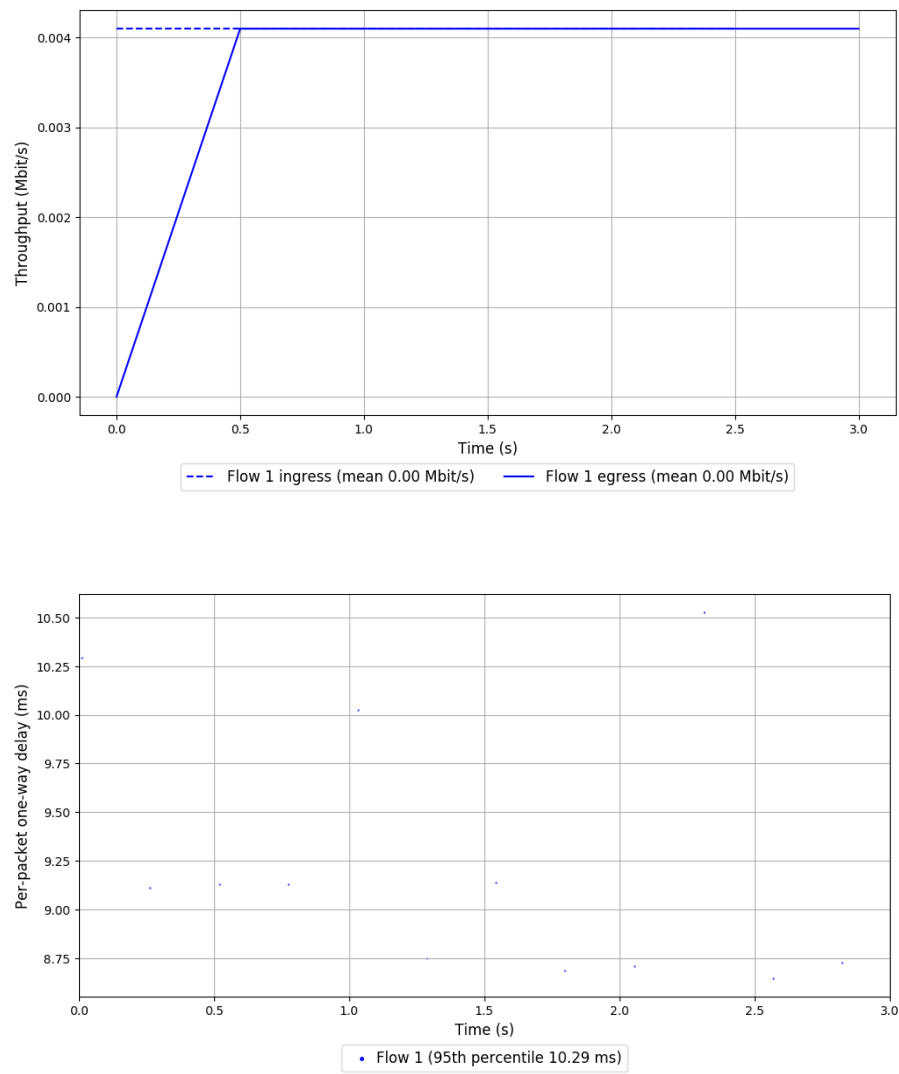
Start at: 2018-05-22 00:33:31

End at: 2018-05-22 00:34:01

Local clock offset: -1.125 ms

Remote clock offset: 0.578 ms

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-05-21 21:55:25

End at: 2018-05-21 21:55:55

Local clock offset: -4.665 ms

Remote clock offset: -1.28 ms

# Below is generated by plot.py at 2018-05-22 00:49:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 38.21 Mbit/s

95th percentile per-packet one-way delay: 14.360 ms

Loss rate: 0.28%

-- Flow 1:

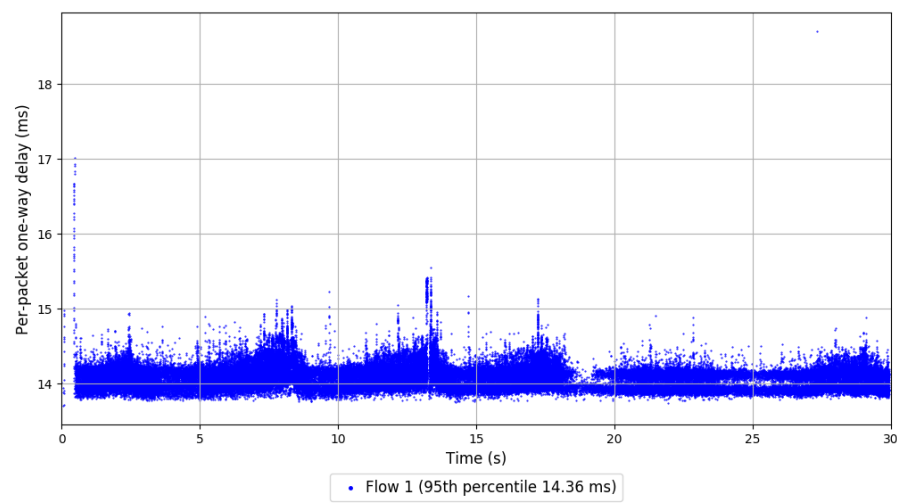
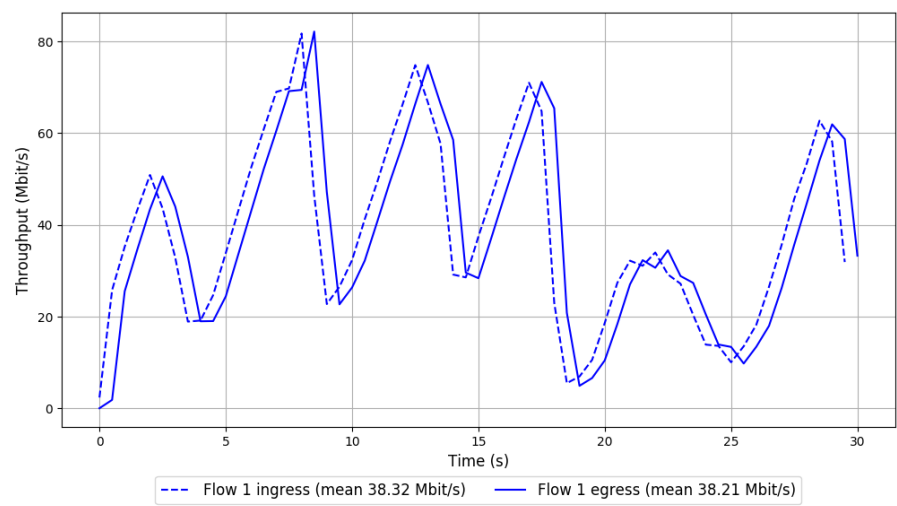
Average throughput: 38.21 Mbit/s

95th percentile per-packet one-way delay: 14.360 ms

Loss rate: 0.28%



Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-21 22:13:14

End at: 2018-05-21 22:13:45

Local clock offset: -0.947 ms

Remote clock offset: -1.36 ms

# Below is generated by plot.py at 2018-05-22 00:49:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 30.85 Mbit/s

95th percentile per-packet one-way delay: 14.401 ms

Loss rate: 1.03%

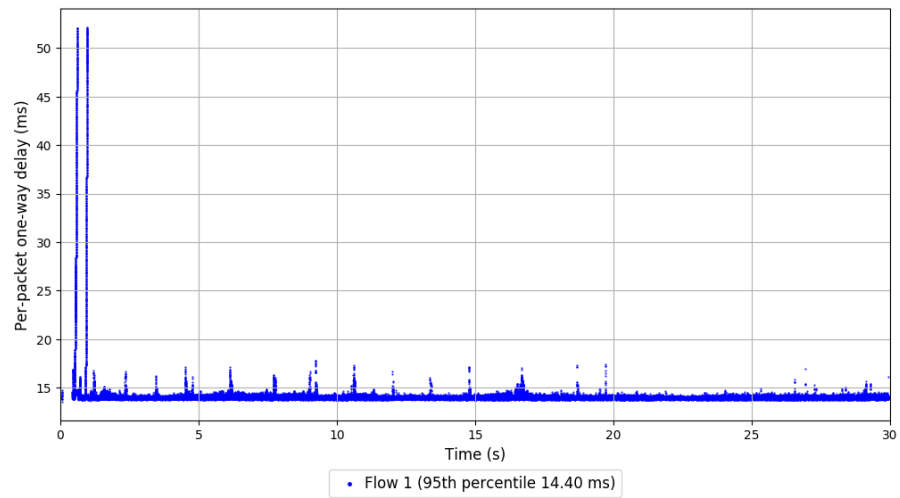
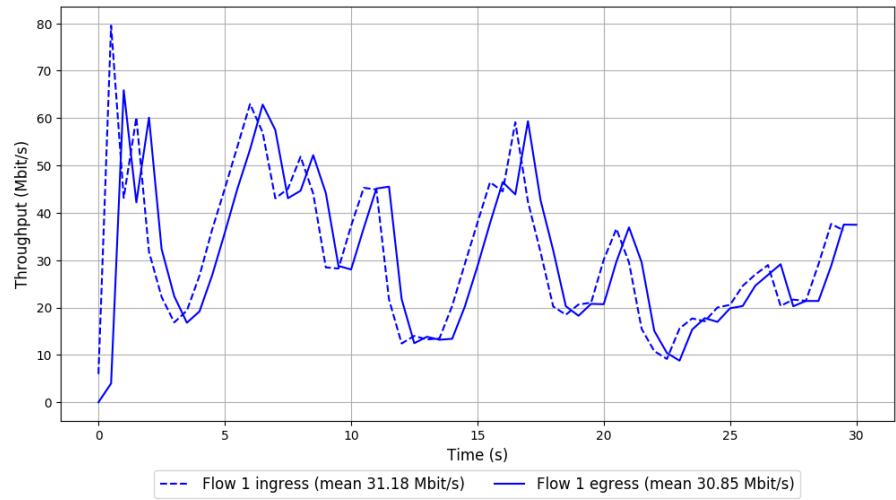
-- Flow 1:

Average throughput: 30.85 Mbit/s

95th percentile per-packet one-way delay: 14.401 ms

Loss rate: 1.03%

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



Run 3: Statistics of QUIC Cubic

Start at: 2018-05-21 22:31:00

End at: 2018-05-21 22:31:30

Local clock offset: 1.075 ms

Remote clock offset: -0.761 ms

# Below is generated by plot.py at 2018-05-22 00:49:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 17.42 Mbit/s

95th percentile per-packet one-way delay: 13.022 ms

Loss rate: 2.64%

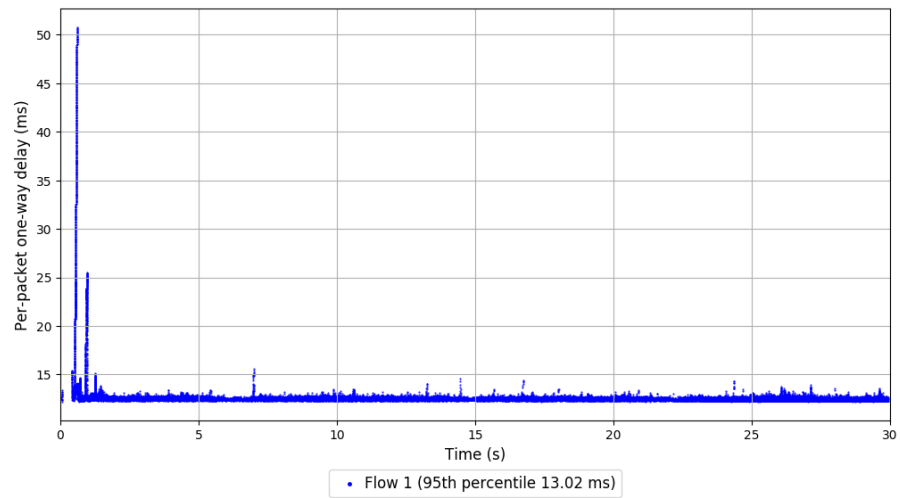
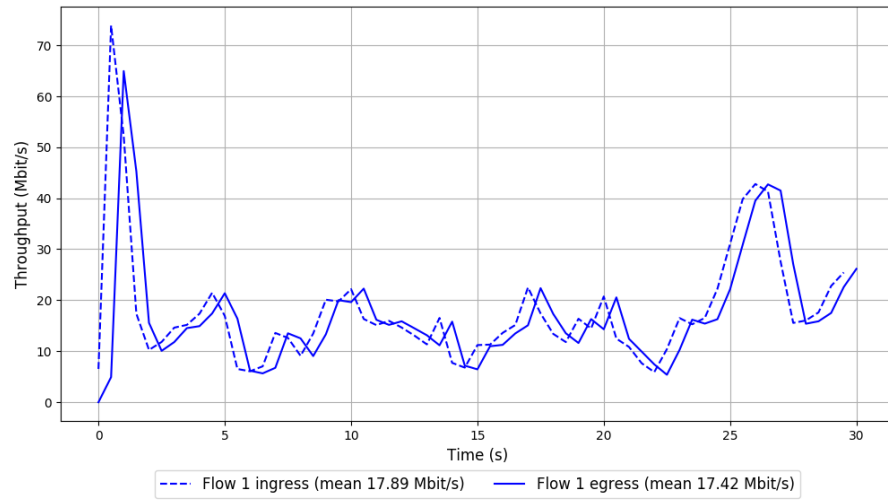
-- Flow 1:

Average throughput: 17.42 Mbit/s

95th percentile per-packet one-way delay: 13.022 ms

Loss rate: 2.64%

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



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-21 22:48:48

End at: 2018-05-21 22:49:18

Local clock offset: 0.304 ms

Remote clock offset: 1.812 ms

# Below is generated by plot.py at 2018-05-22 00:49:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 24.26 Mbit/s

95th percentile per-packet one-way delay: 13.584 ms

Loss rate: 1.61%

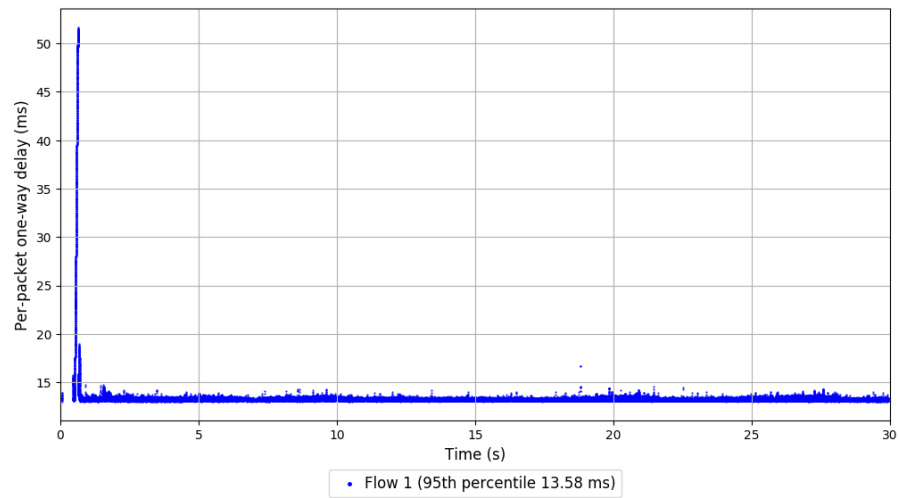
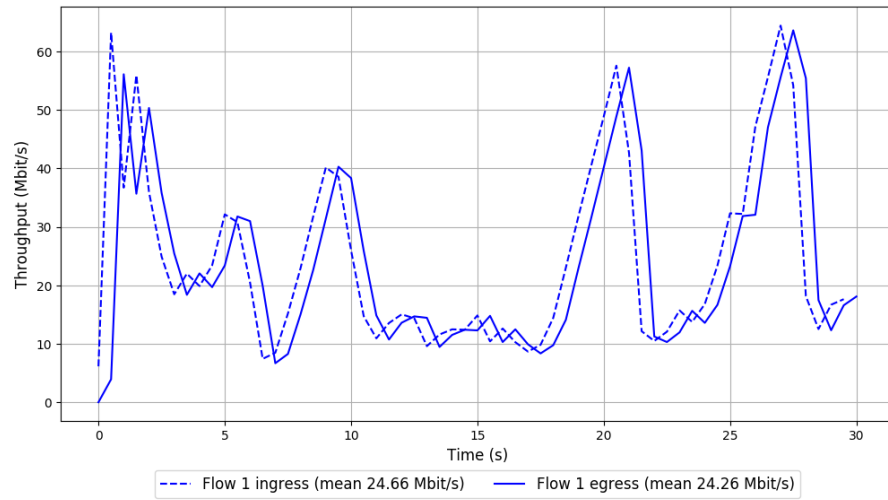
-- Flow 1:

Average throughput: 24.26 Mbit/s

95th percentile per-packet one-way delay: 13.584 ms

Loss rate: 1.61%

#### Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-05-21 23:06:34

End at: 2018-05-21 23:07:04

Local clock offset: -0.898 ms

Remote clock offset: 0.399 ms

# Below is generated by plot.py at 2018-05-22 00:50:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 54.52 Mbit/s

95th percentile per-packet one-way delay: 33.304 ms

Loss rate: 0.56%

-- Flow 1:

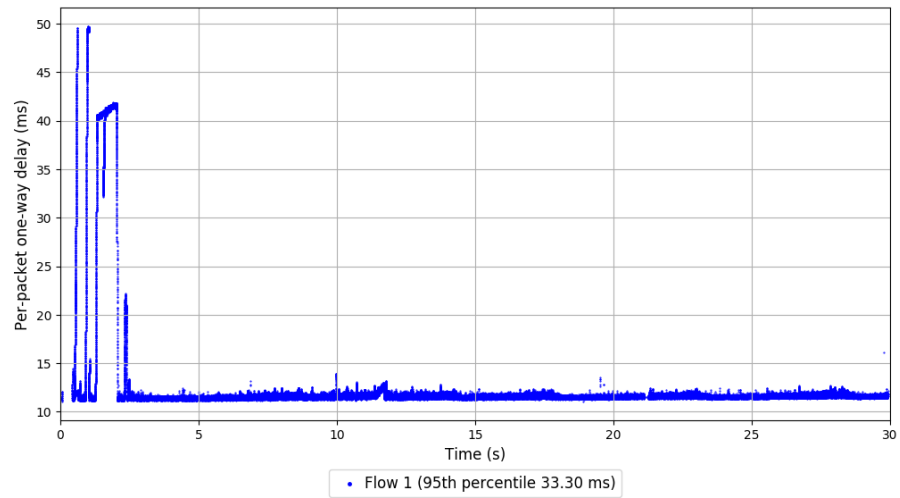
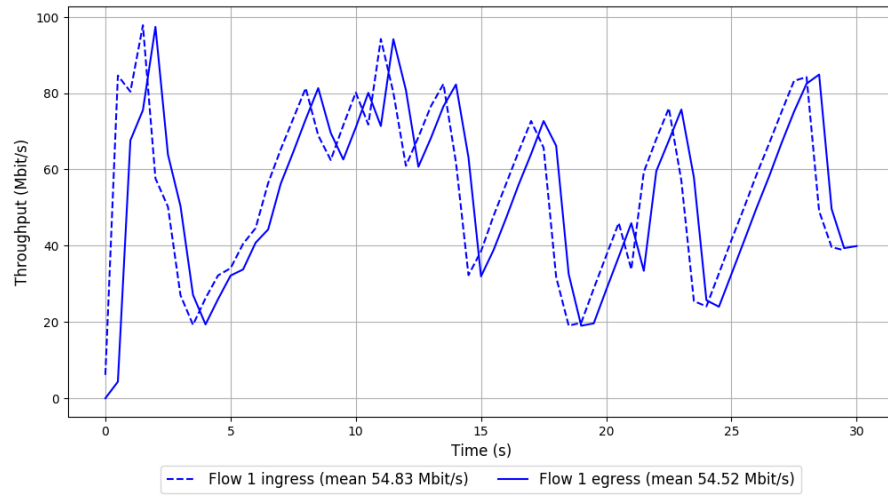
Average throughput: 54.52 Mbit/s

95th percentile per-packet one-way delay: 33.304 ms

Loss rate: 0.56%



### Run 5: Report of QUIC Cubic — Data Link

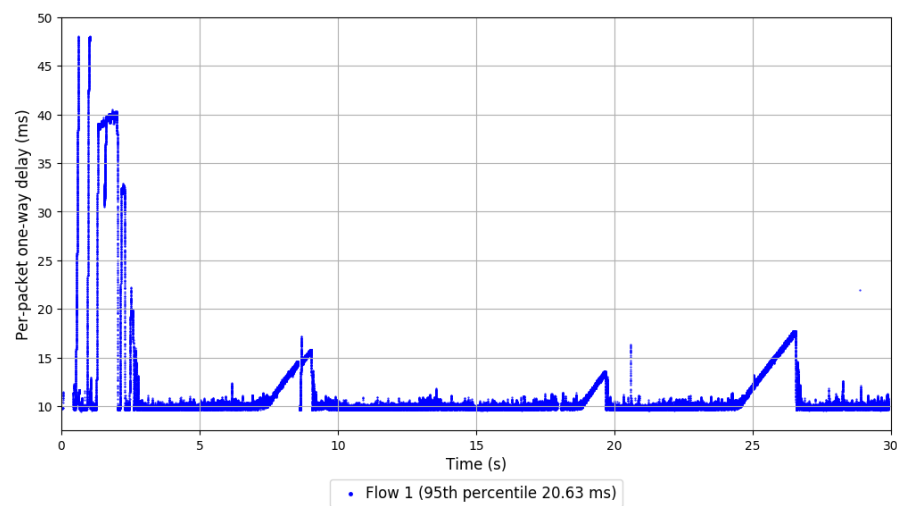
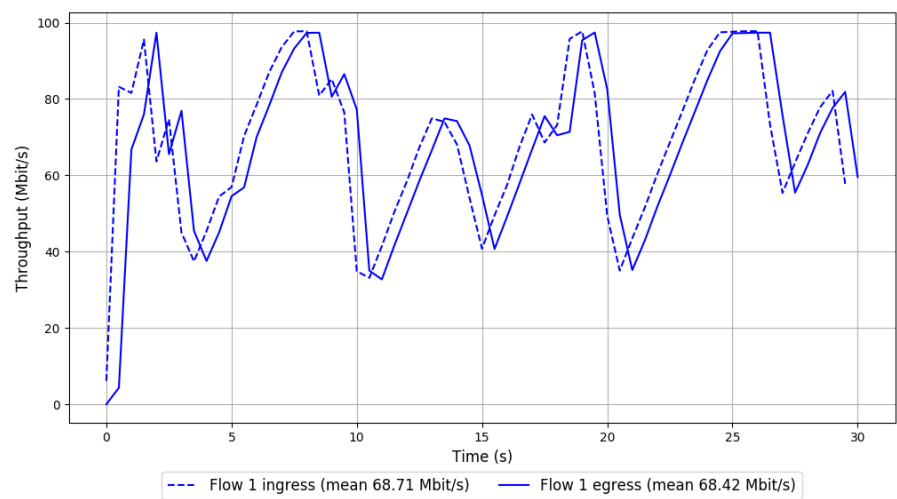


Run 6: Statistics of QUIC Cubic

Start at: 2018-05-21 23:24:20  
End at: 2018-05-21 23:24:50  
Local clock offset: -2.494 ms  
Remote clock offset: -5.283 ms

# Below is generated by plot.py at 2018-05-22 00:50:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 68.42 Mbit/s  
95th percentile per-packet one-way delay: 20.631 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 68.42 Mbit/s  
95th percentile per-packet one-way delay: 20.631 ms  
Loss rate: 0.43%

Run 6: Report of QUIC Cubic — Data Link

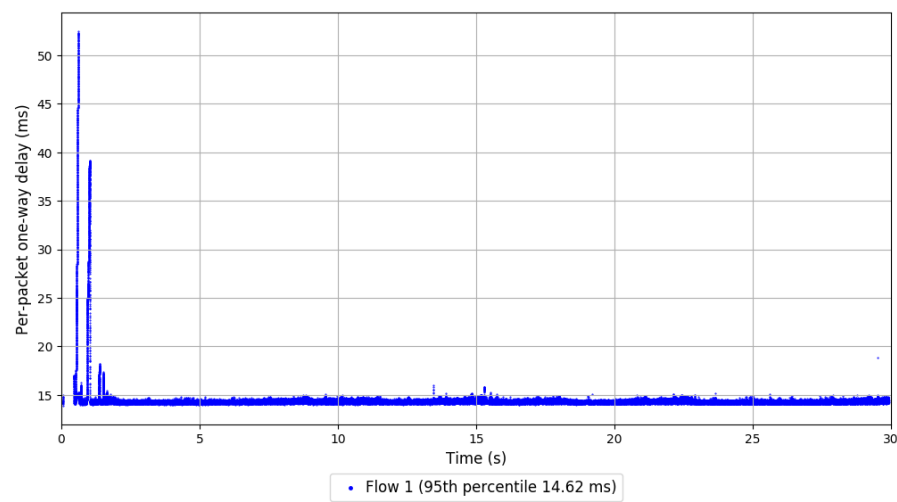
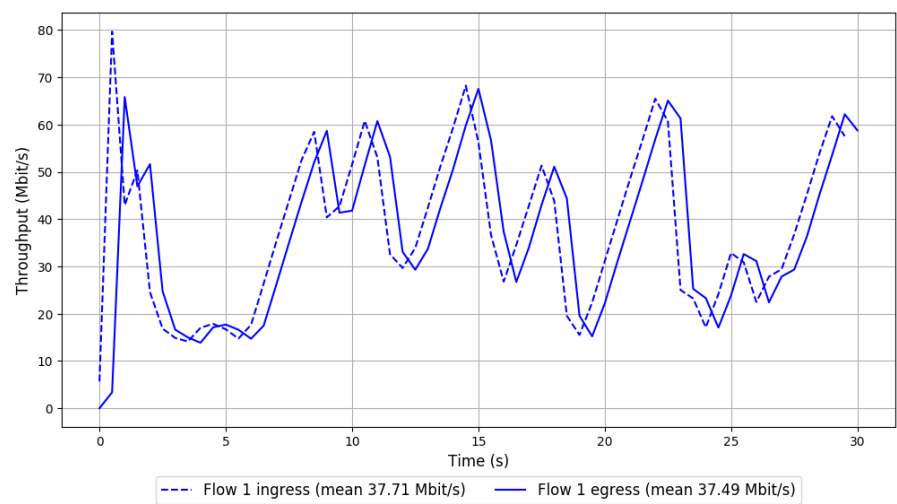


Run 7: Statistics of QUIC Cubic

Start at: 2018-05-21 23:42:15  
End at: 2018-05-21 23:42:45  
Local clock offset: -8.073 ms  
Remote clock offset: -6.549 ms

# Below is generated by plot.py at 2018-05-22 00:50:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 37.49 Mbit/s  
95th percentile per-packet one-way delay: 14.625 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 37.49 Mbit/s  
95th percentile per-packet one-way delay: 14.625 ms  
Loss rate: 0.57%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-21 23:59:58

End at: 2018-05-22 00:00:28

Local clock offset: -4.453 ms

Remote clock offset: -8.311 ms

# Below is generated by plot.py at 2018-05-22 00:50:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 36.50 Mbit/s

95th percentile per-packet one-way delay: 11.703 ms

Loss rate: 1.03%

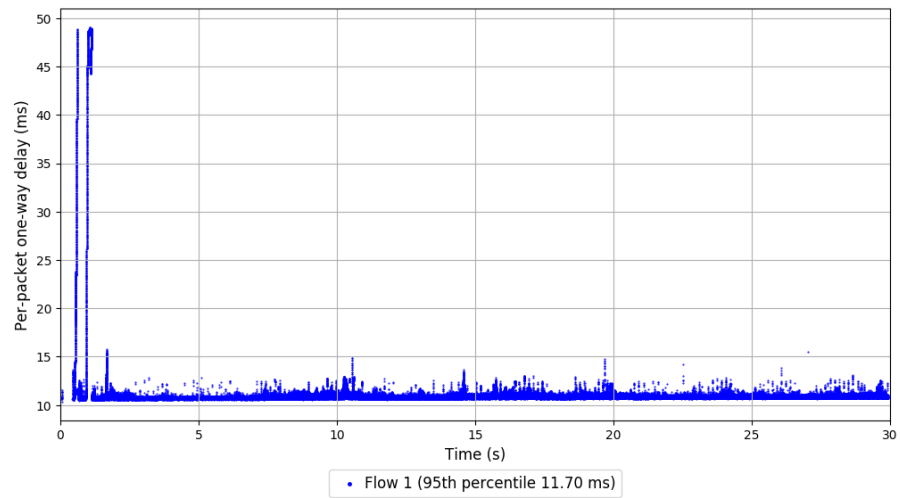
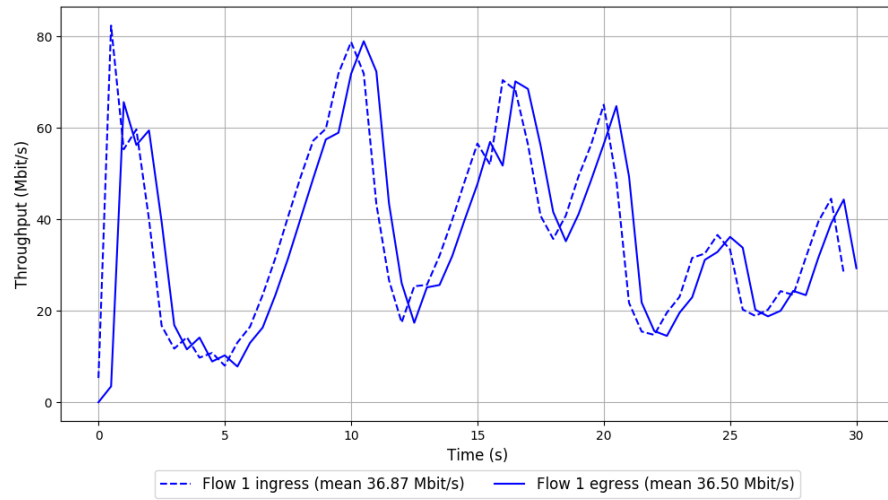
-- Flow 1:

Average throughput: 36.50 Mbit/s

95th percentile per-packet one-way delay: 11.703 ms

Loss rate: 1.03%

### Run 8: Report of QUIC Cubic — Data Link



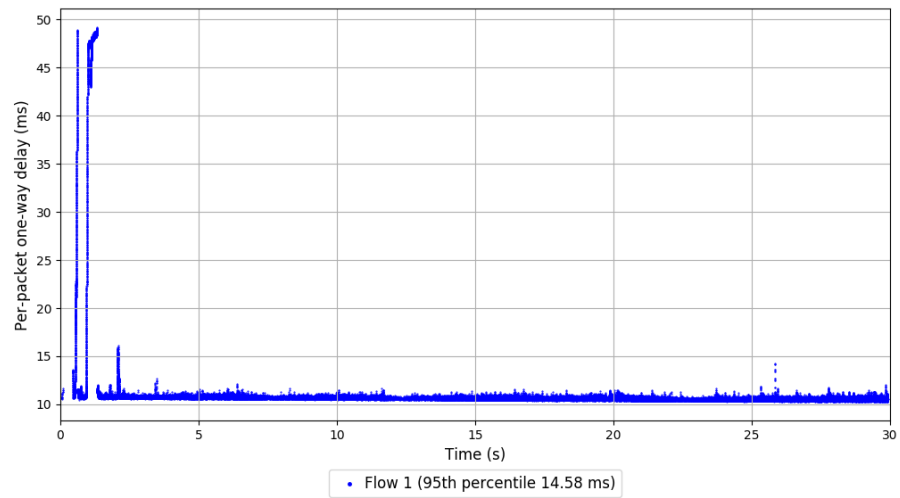
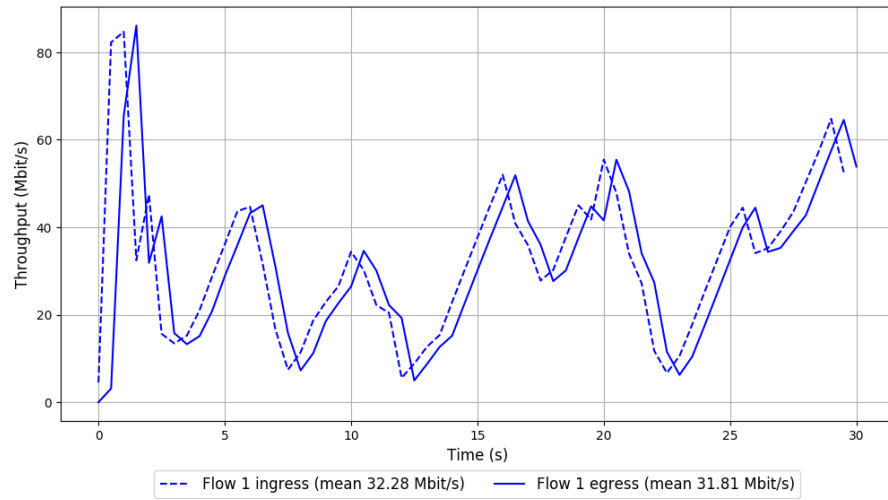
Run 9: Statistics of QUIC Cubic

Start at: 2018-05-22 00:17:48  
End at: 2018-05-22 00:18:18  
Local clock offset: -0.372 ms  
Remote clock offset: -3.993 ms

# Below is generated by plot.py at 2018-05-22 00:50:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 31.81 Mbit/s  
95th percentile per-packet one-way delay: 14.582 ms  
Loss rate: 1.46%  
-- Flow 1:  
Average throughput: 31.81 Mbit/s  
95th percentile per-packet one-way delay: 14.582 ms  
Loss rate: 1.46%



### Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-22 00:35:43

End at: 2018-05-22 00:36:13

Local clock offset: -1.625 ms

Remote clock offset: 2.697 ms

# Below is generated by plot.py at 2018-05-22 00:50:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 34.99 Mbit/s

95th percentile per-packet one-way delay: 13.226 ms

Loss rate: 1.17%

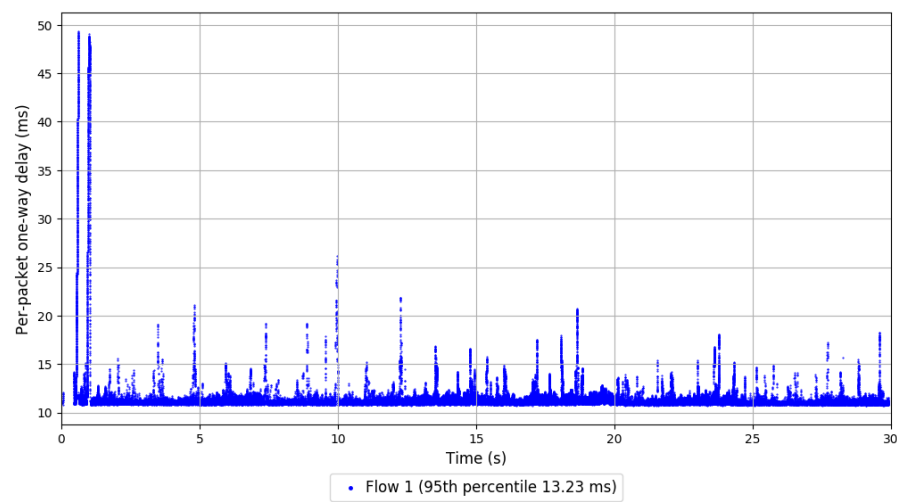
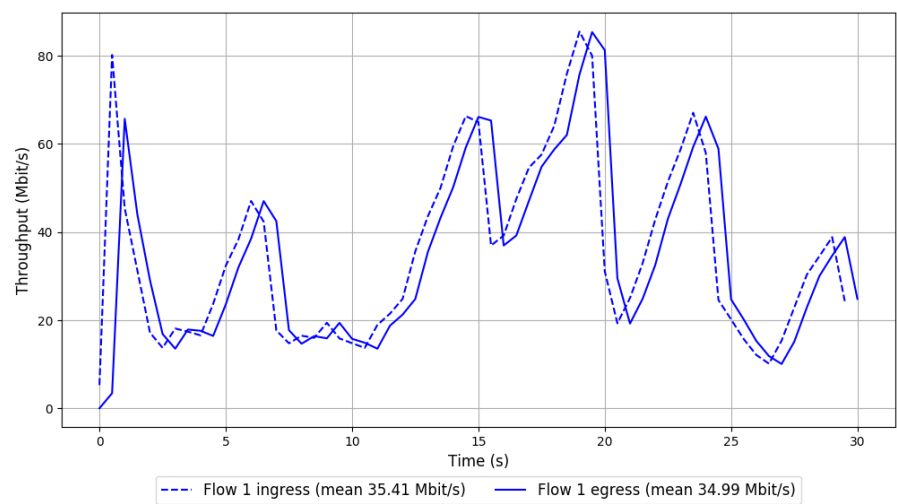
-- Flow 1:

Average throughput: 34.99 Mbit/s

95th percentile per-packet one-way delay: 13.226 ms

Loss rate: 1.17%

Run 10: Report of QUIC Cubic — Data Link

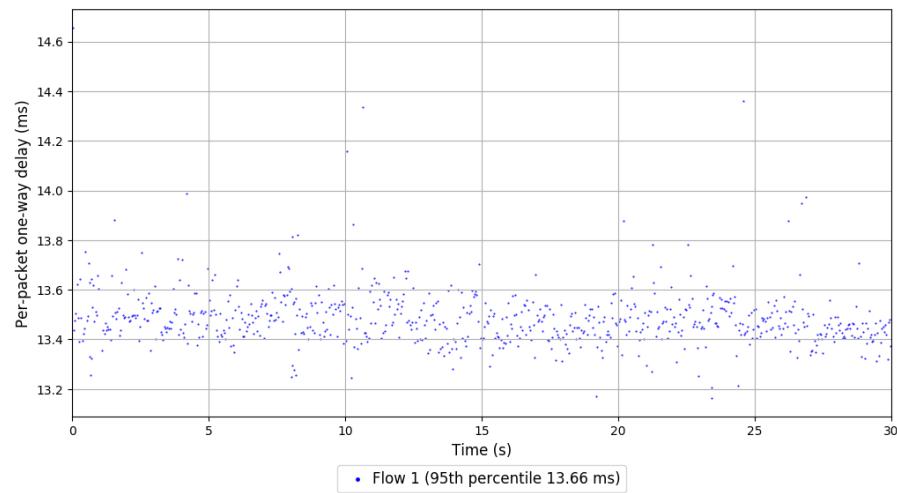
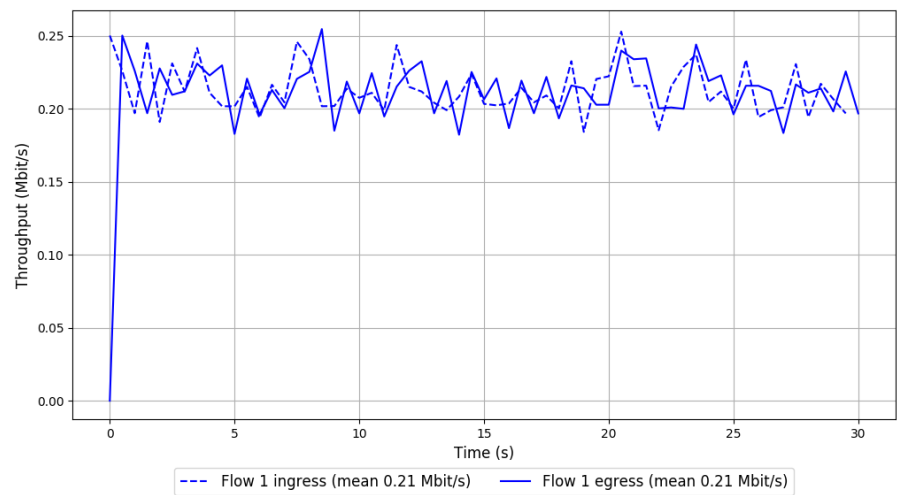


Run 1: Statistics of SCReAM

Start at: 2018-05-21 21:40:51  
End at: 2018-05-21 21:41:21  
Local clock offset: -2.408 ms  
Remote clock offset: -1.338 ms

# Below is generated by plot.py at 2018-05-22 00:50:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 13.658 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 13.658 ms  
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

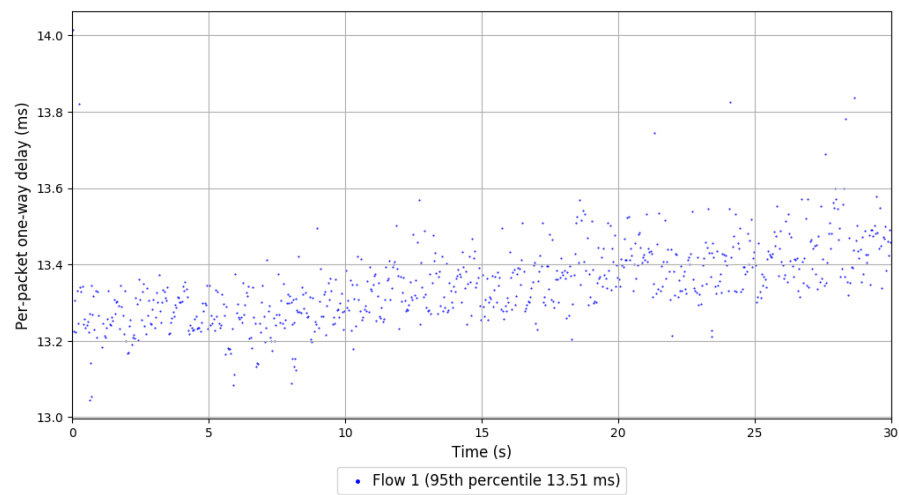
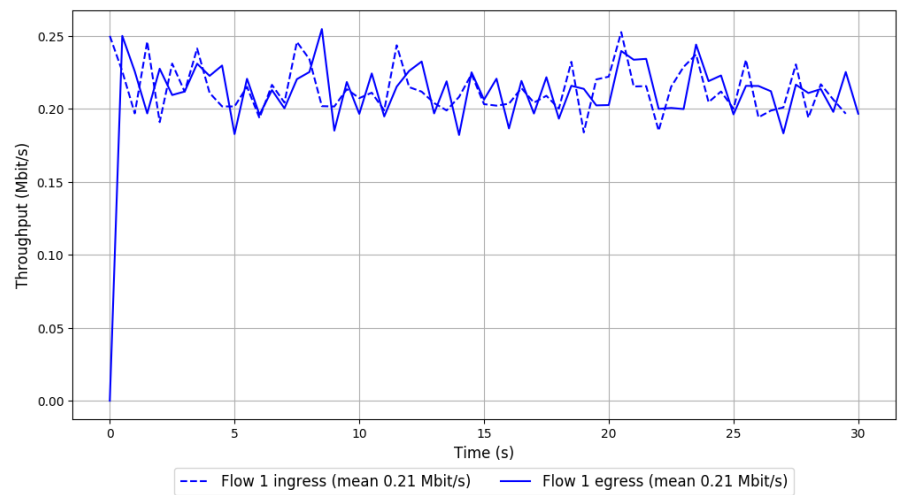


Run 2: Statistics of SCReAM

Start at: 2018-05-21 21:58:47  
End at: 2018-05-21 21:59:17  
Local clock offset: -2.707 ms  
Remote clock offset: -1.342 ms

# Below is generated by plot.py at 2018-05-22 00:50:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 13.514 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 13.514 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



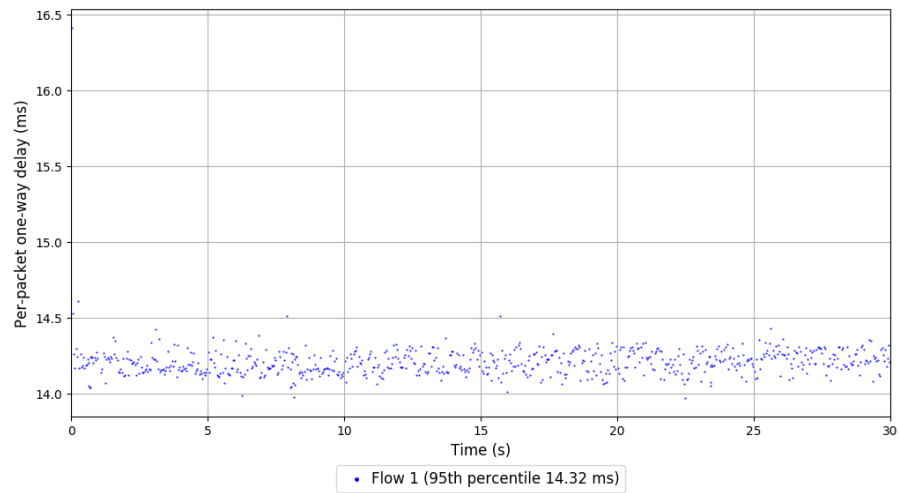
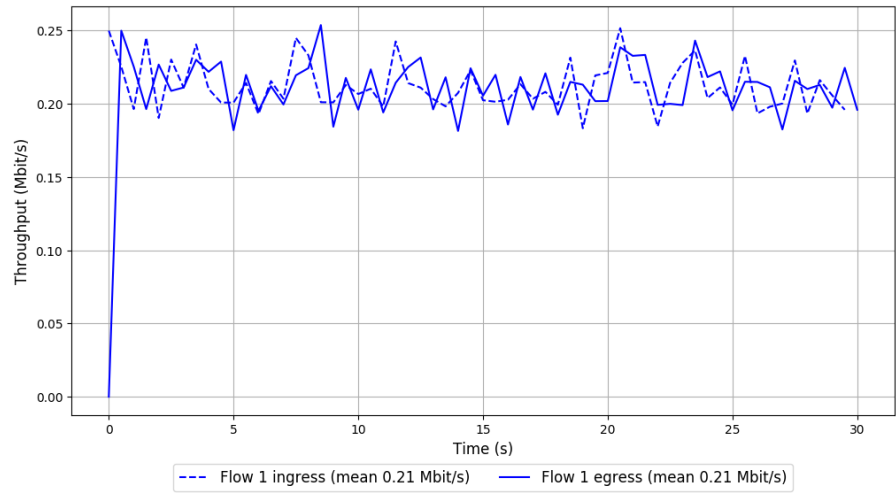
Run 3: Statistics of SCReAM

Start at: 2018-05-21 22:16:34  
End at: 2018-05-21 22:17:04  
Local clock offset: -1.836 ms  
Remote clock offset: -2.133 ms

# Below is generated by plot.py at 2018-05-22 00:50:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 14.323 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 14.323 ms  
Loss rate: 0.00%



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



Run 4: Statistics of SCReAM

Start at: 2018-05-21 22:34:20

End at: 2018-05-21 22:34:50

Local clock offset: 0.087 ms

Remote clock offset: 0.207 ms

# Below is generated by plot.py at 2018-05-22 00:50:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 13.886 ms

Loss rate: 0.73%

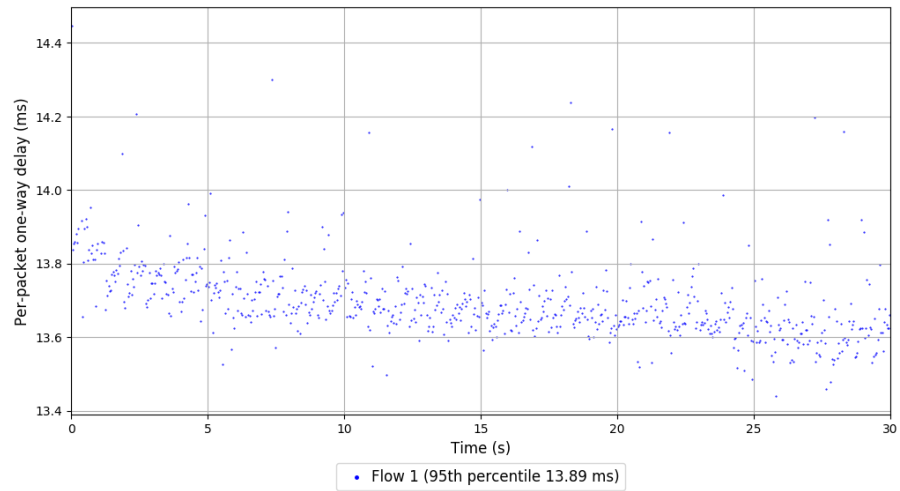
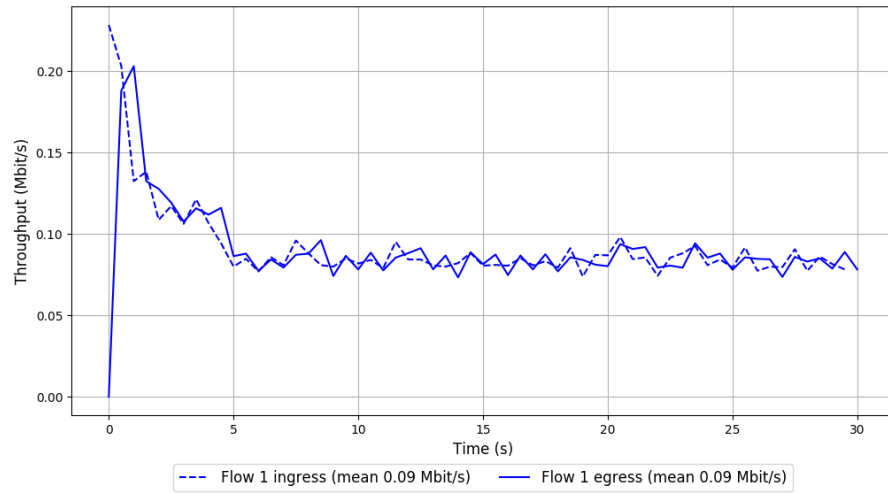
-- Flow 1:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 13.886 ms

Loss rate: 0.73%

#### Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-05-21 22:52:10

End at: 2018-05-21 22:52:40

Local clock offset: -0.137 ms

Remote clock offset: 1.884 ms

# Below is generated by plot.py at 2018-05-22 00:50:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 13.569 ms

Loss rate: 0.22%

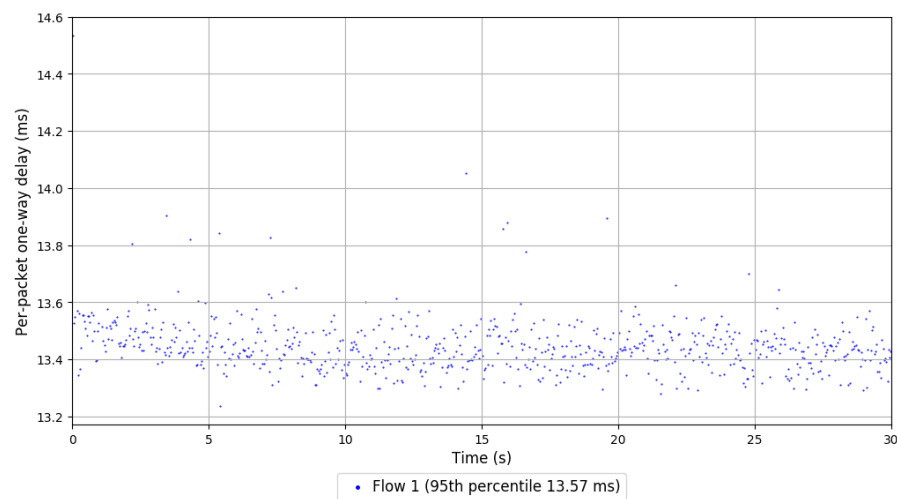
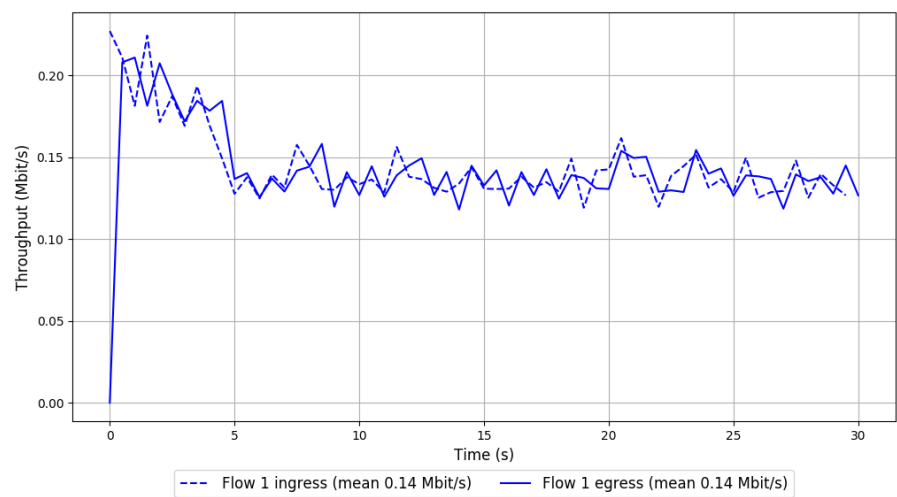
-- Flow 1:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 13.569 ms

Loss rate: 0.22%

Run 5: Report of SReAM — Data Link

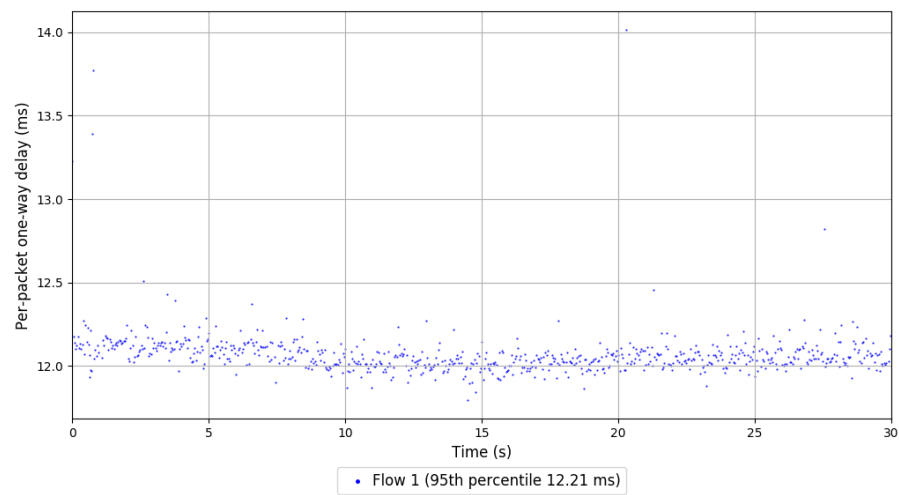
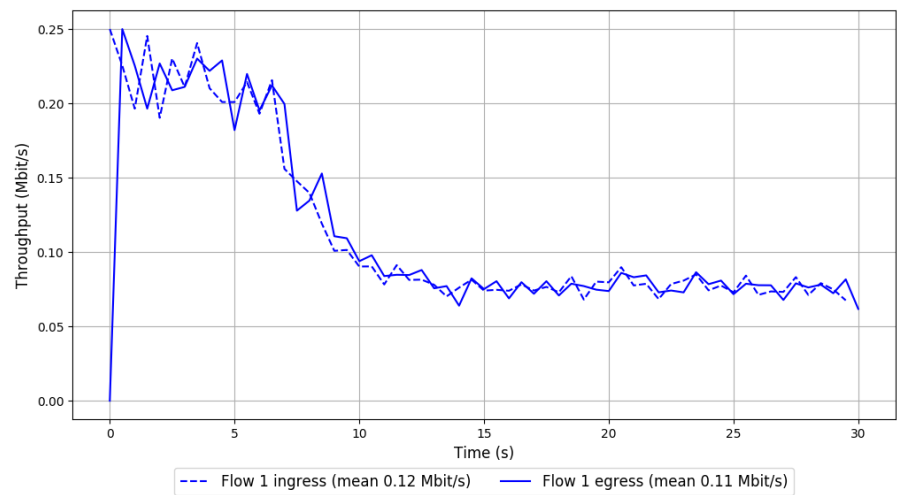


Run 6: Statistics of SCReAM

Start at: 2018-05-21 23:09:54  
End at: 2018-05-21 23:10:25  
Local clock offset: -2.499 ms  
Remote clock offset: -1.467 ms

# Below is generated by plot.py at 2018-05-22 00:50:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.11 Mbit/s  
95th percentile per-packet one-way delay: 12.207 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 0.11 Mbit/s  
95th percentile per-packet one-way delay: 12.207 ms  
Loss rate: 0.82%

Run 6: Report of SReAM — Data Link



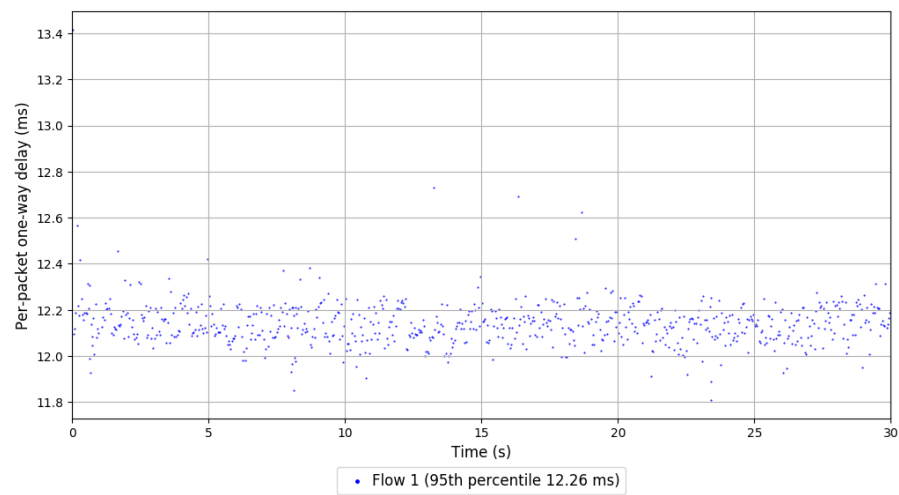
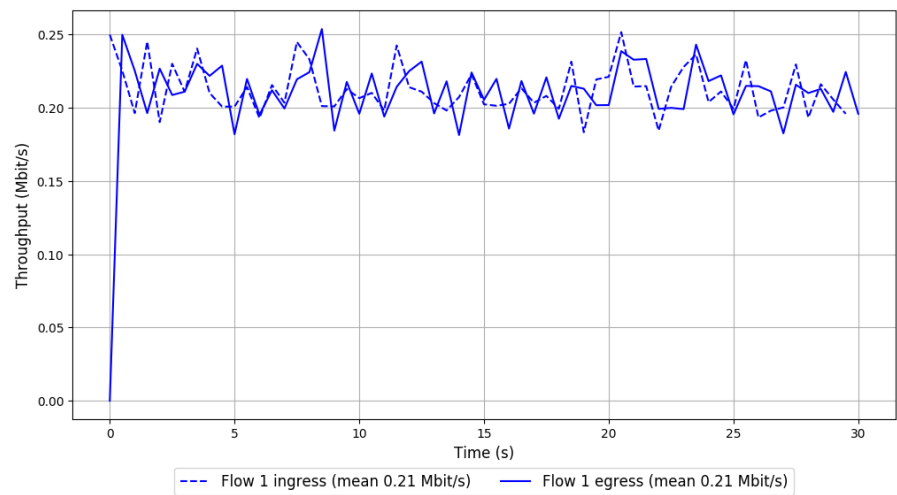
Run 7: Statistics of SCReAM

Start at: 2018-05-21 23:27:45  
End at: 2018-05-21 23:28:15  
Local clock offset: -5.706 ms  
Remote clock offset: -6.197 ms

# Below is generated by plot.py at 2018-05-22 00:50:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 12.261 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 12.261 ms  
Loss rate: 0.00%



Run 7: Report of SReAM — Data Link

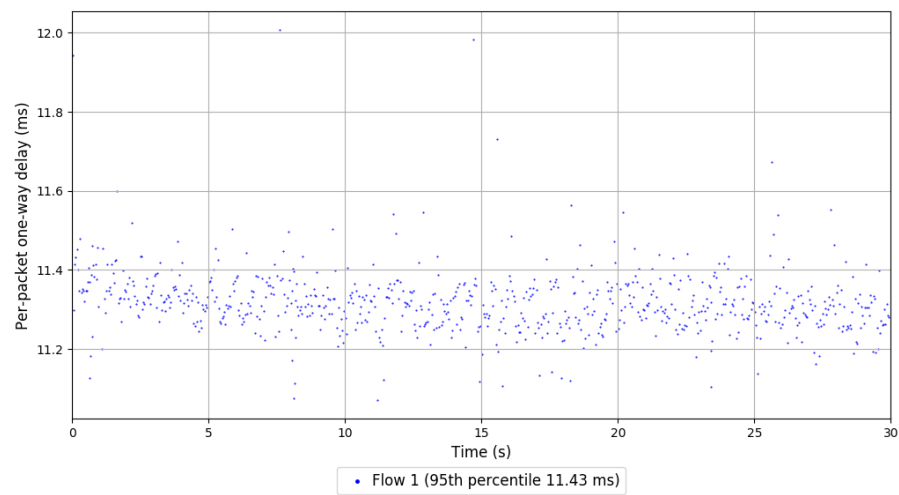
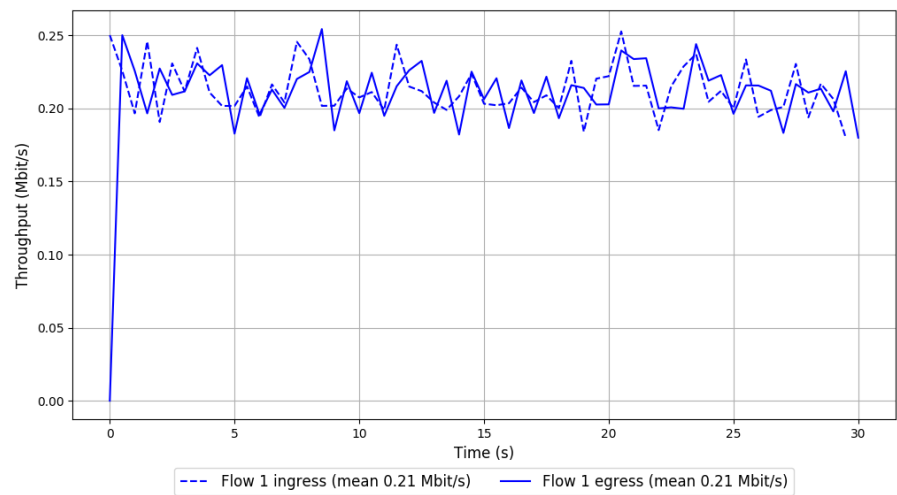


Run 8: Statistics of SCReAM

Start at: 2018-05-21 23:45:35  
End at: 2018-05-21 23:46:05  
Local clock offset: -5.581 ms  
Remote clock offset: -7.006 ms

# Below is generated by plot.py at 2018-05-22 00:50:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 11.434 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 11.434 ms  
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

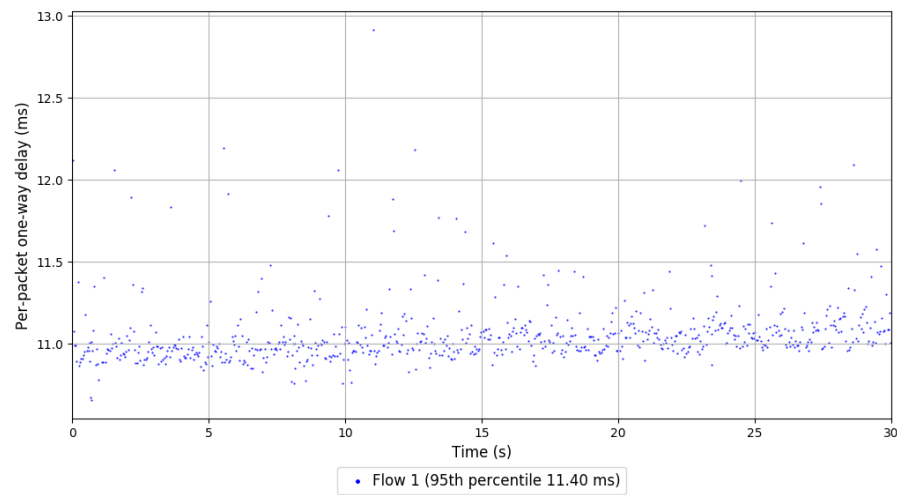
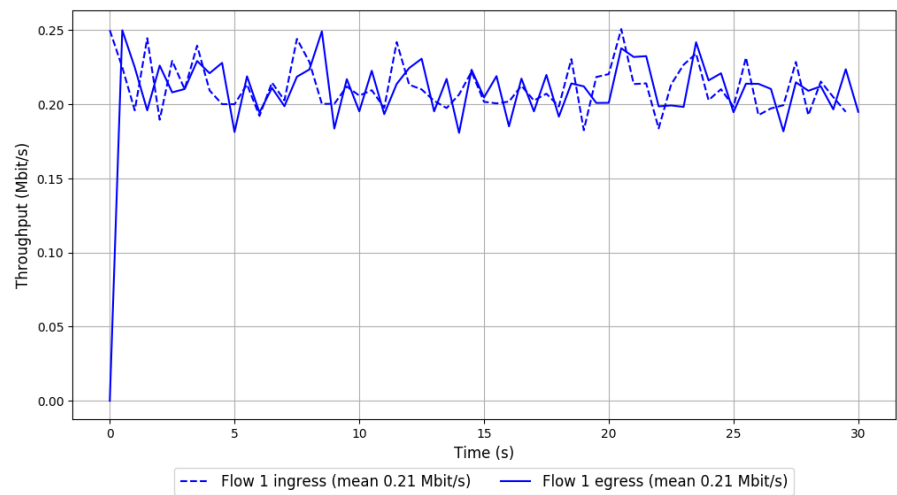


Run 9: Statistics of SCReAM

Start at: 2018-05-22 00:03:18  
End at: 2018-05-22 00:03:48  
Local clock offset: -3.335 ms  
Remote clock offset: -8.217 ms

# Below is generated by plot.py at 2018-05-22 00:50:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 11.400 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 11.400 ms  
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

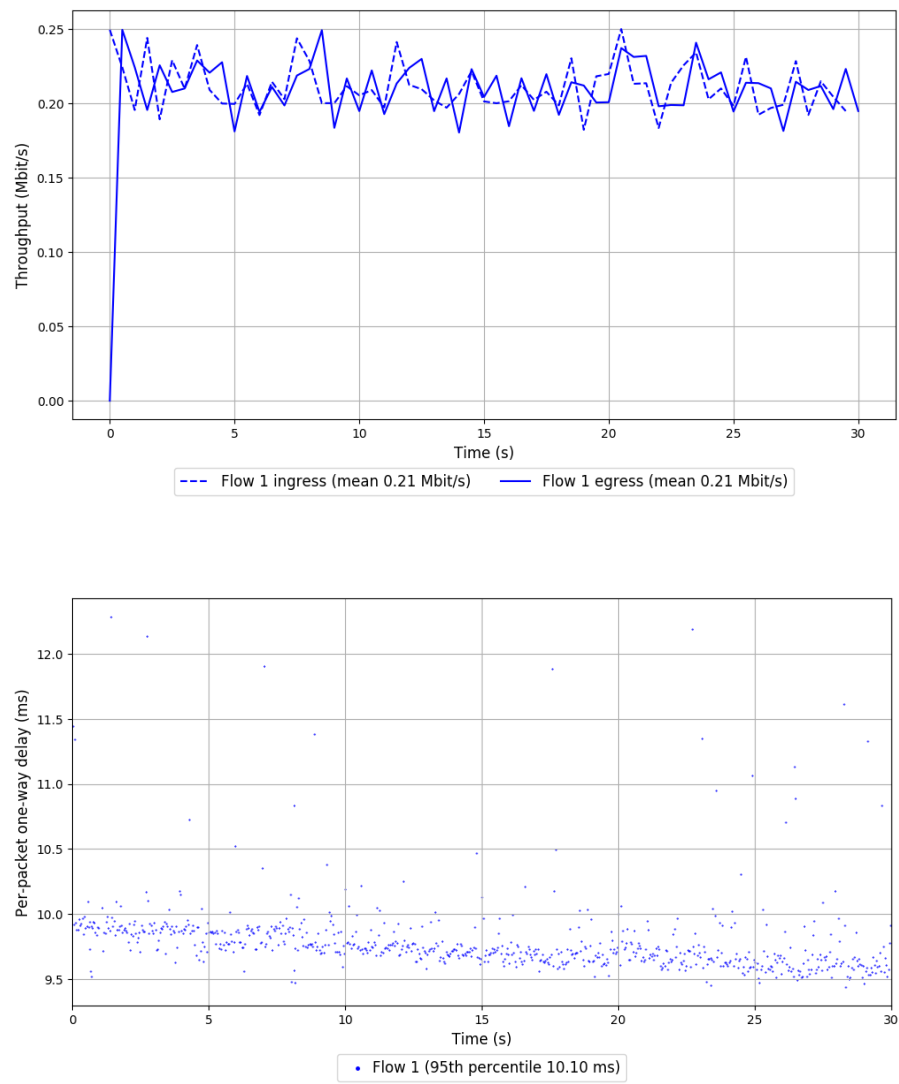


Run 10: Statistics of SCReAM

Start at: 2018-05-22 00:21:08  
End at: 2018-05-22 00:21:38  
Local clock offset: -1.791 ms  
Remote clock offset: -3.219 ms

# Below is generated by plot.py at 2018-05-22 00:50:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 10.095 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 10.095 ms  
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



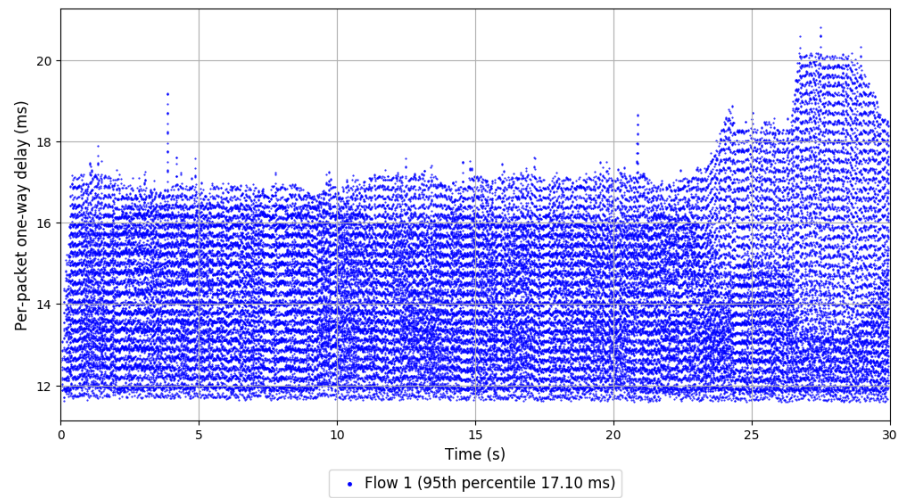
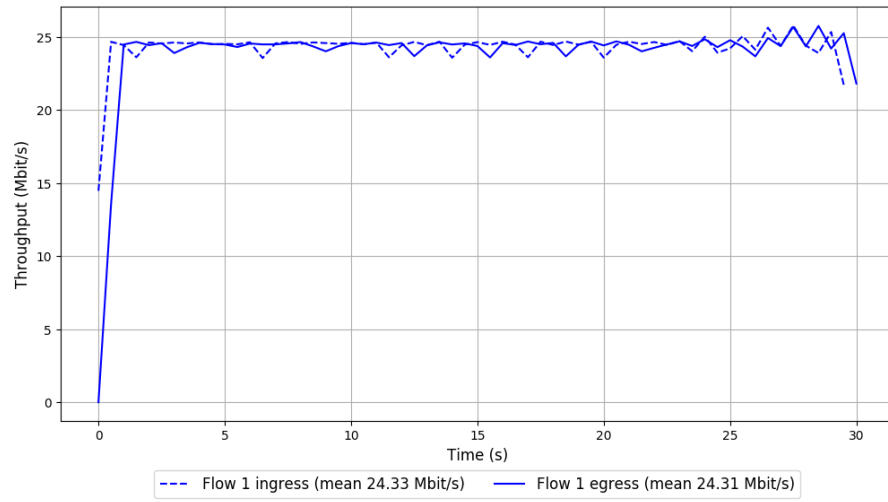
Run 1: Statistics of Sprout

Start at: 2018-05-21 21:43:08  
End at: 2018-05-21 21:43:38  
Local clock offset: -1.314 ms  
Remote clock offset: -1.693 ms

# Below is generated by plot.py at 2018-05-22 00:50:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.31 Mbit/s  
95th percentile per-packet one-way delay: 17.098 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 24.31 Mbit/s  
95th percentile per-packet one-way delay: 17.098 ms  
Loss rate: 0.08%



# Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-05-21 22:01:00

End at: 2018-05-21 22:01:30

Local clock offset: -2.254 ms

Remote clock offset: -1.62 ms

# Below is generated by plot.py at 2018-05-22 00:50:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 24.57 Mbit/s

95th percentile per-packet one-way delay: 20.774 ms

Loss rate: 0.01%

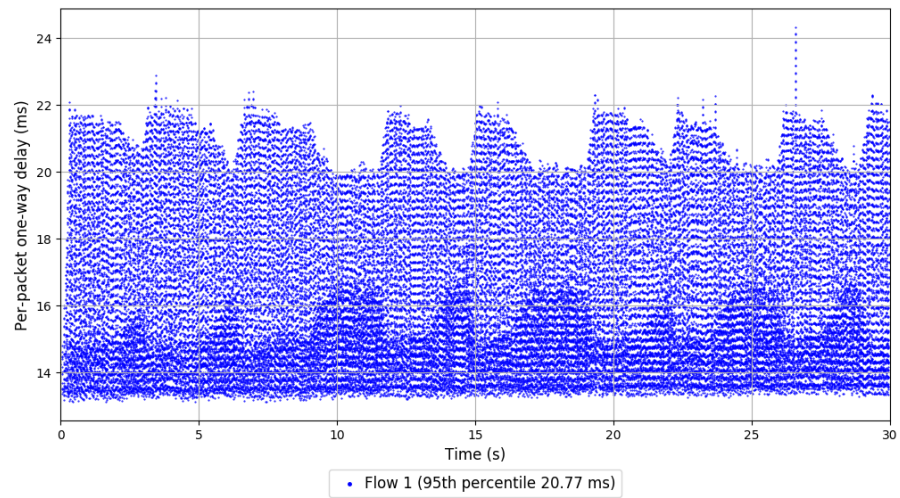
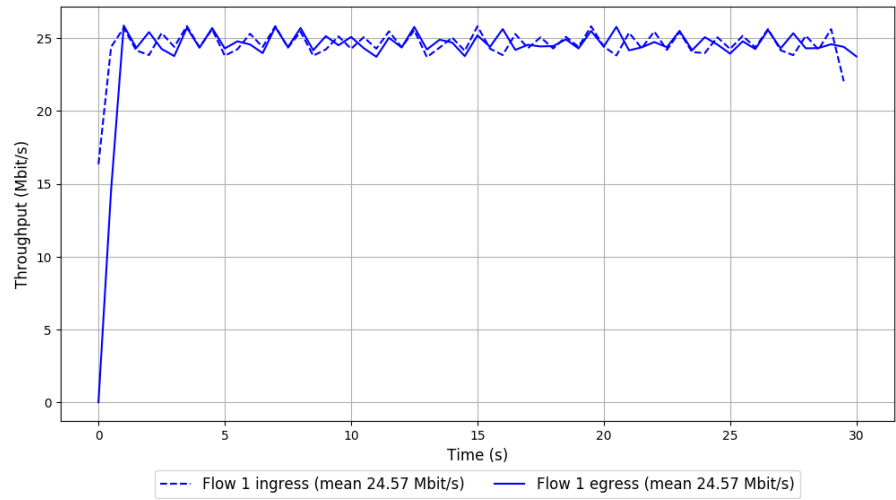
-- Flow 1:

Average throughput: 24.57 Mbit/s

95th percentile per-packet one-way delay: 20.774 ms

Loss rate: 0.01%

## Run 2: Report of Sprout — Data Link

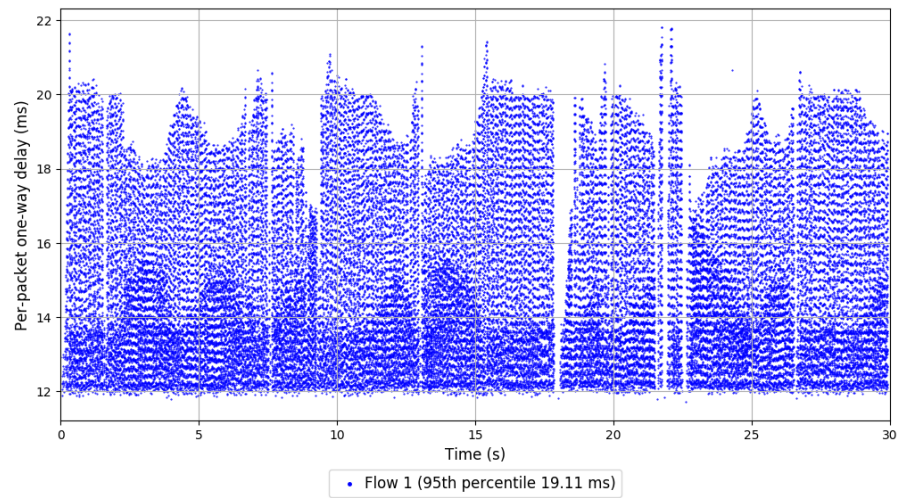
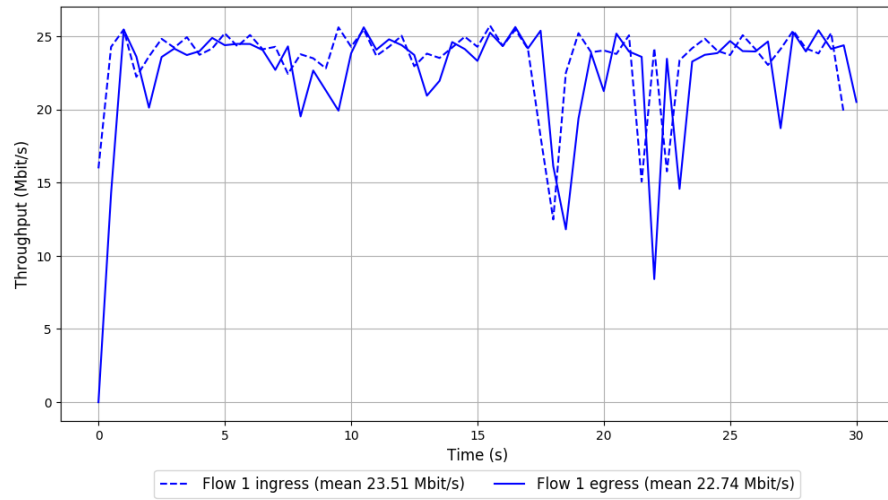


Run 3: Statistics of Sprout

Start at: 2018-05-21 22:18:44  
End at: 2018-05-21 22:19:14  
Local clock offset: 0.346 ms  
Remote clock offset: -2.132 ms

# Below is generated by plot.py at 2018-05-22 00:50:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 22.74 Mbit/s  
95th percentile per-packet one-way delay: 19.114 ms  
Loss rate: 3.26%  
-- Flow 1:  
Average throughput: 22.74 Mbit/s  
95th percentile per-packet one-way delay: 19.114 ms  
Loss rate: 3.26%

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



Run 4: Statistics of Sprout

Start at: 2018-05-21 22:36:30

End at: 2018-05-21 22:37:00

Local clock offset: 1.504 ms

Remote clock offset: 0.349 ms

# Below is generated by plot.py at 2018-05-22 00:50:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 23.67 Mbit/s

95th percentile per-packet one-way delay: 19.388 ms

Loss rate: 1.69%

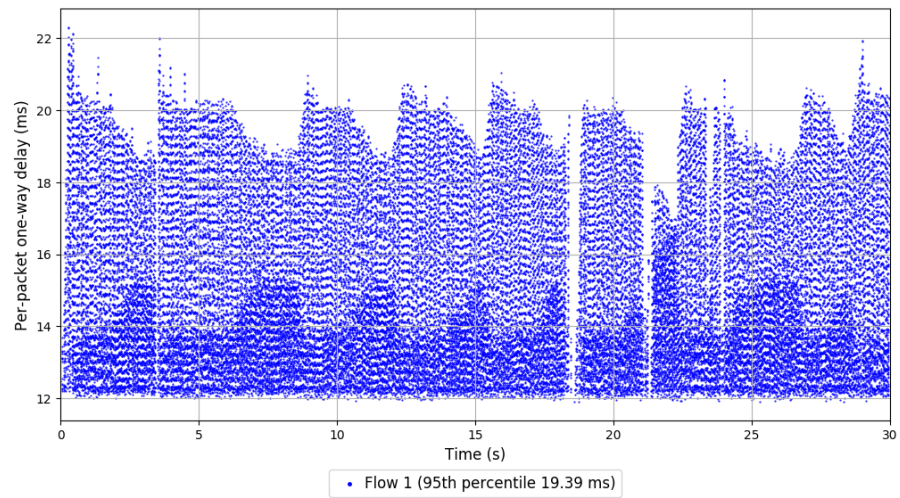
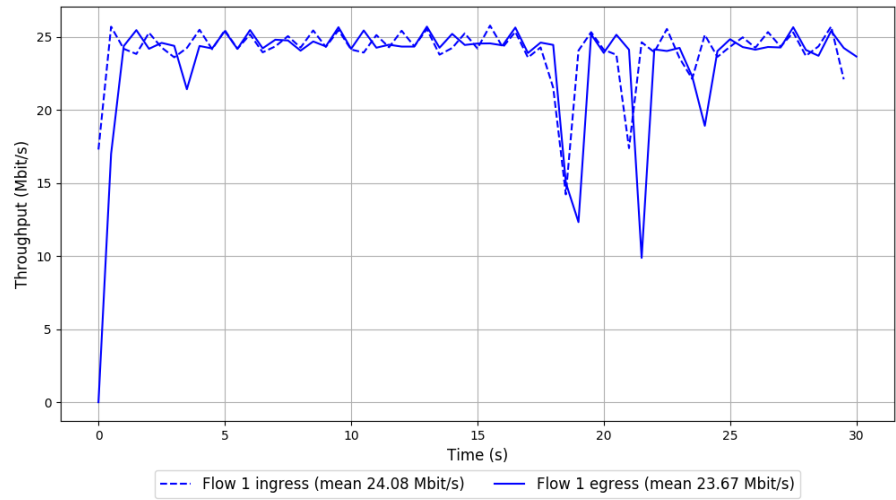
-- Flow 1:

Average throughput: 23.67 Mbit/s

95th percentile per-packet one-way delay: 19.388 ms

Loss rate: 1.69%

#### Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-05-21 22:54:24

End at: 2018-05-21 22:54:54

Local clock offset: -1.05 ms

Remote clock offset: 1.652 ms

# Below is generated by plot.py at 2018-05-22 00:50:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 24.56 Mbit/s

95th percentile per-packet one-way delay: 21.456 ms

Loss rate: 0.00%

-- Flow 1:

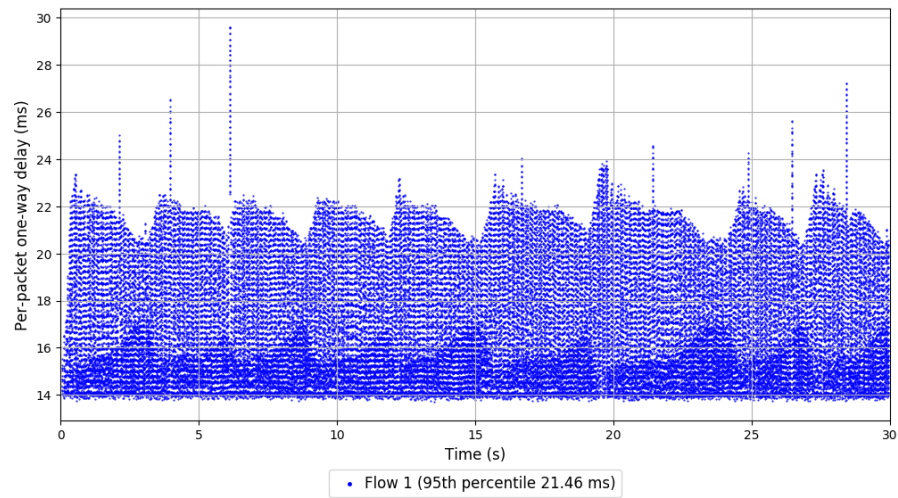
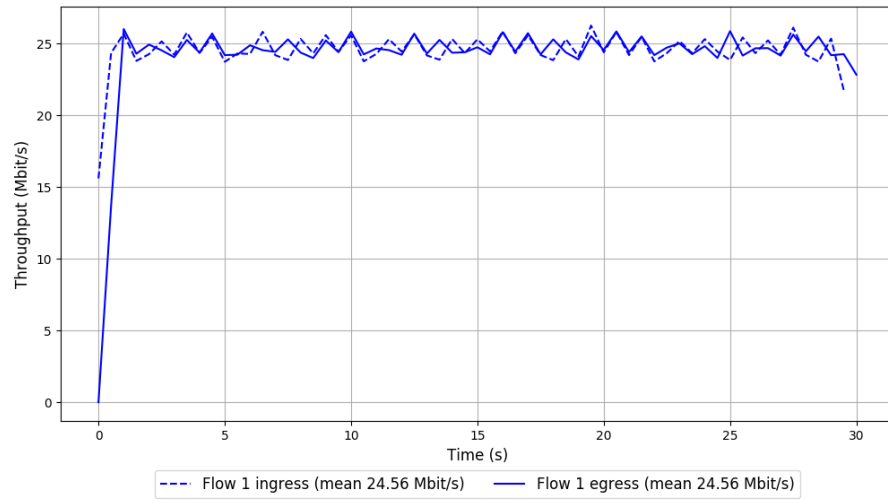
Average throughput: 24.56 Mbit/s

95th percentile per-packet one-way delay: 21.456 ms

Loss rate: 0.00%



### Run 5: Report of Sprout — Data Link

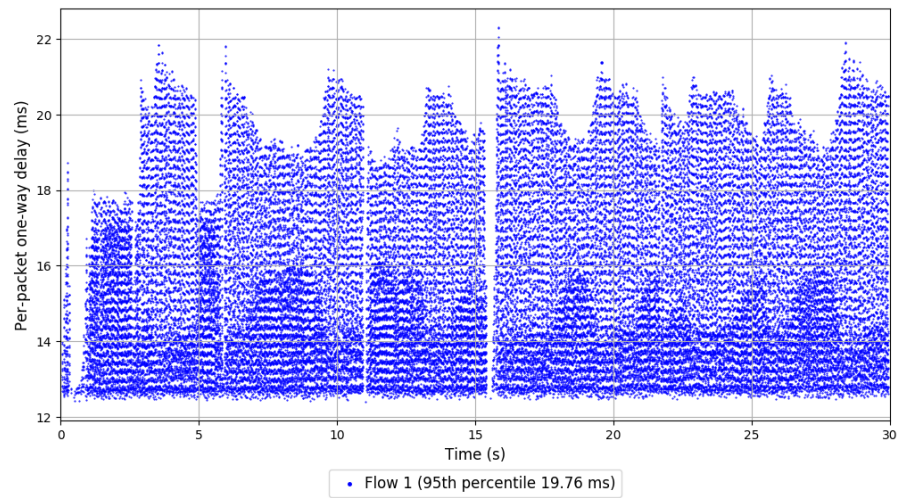
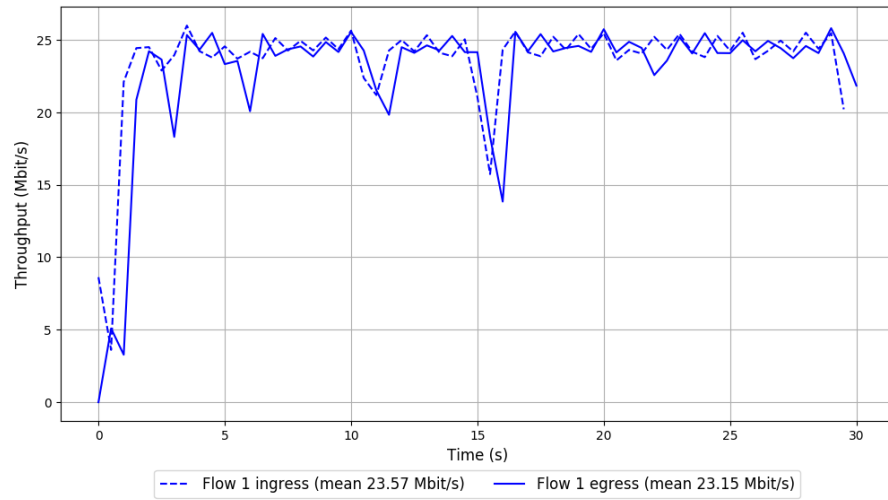


Run 6: Statistics of Sprout

Start at: 2018-05-21 23:12:07  
End at: 2018-05-21 23:12:37  
Local clock offset: -3.513 ms  
Remote clock offset: -2.469 ms

# Below is generated by plot.py at 2018-05-22 00:50:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 23.15 Mbit/s  
95th percentile per-packet one-way delay: 19.759 ms  
Loss rate: 1.77%  
-- Flow 1:  
Average throughput: 23.15 Mbit/s  
95th percentile per-packet one-way delay: 19.759 ms  
Loss rate: 1.77%

## Run 6: Report of Sprout — Data Link

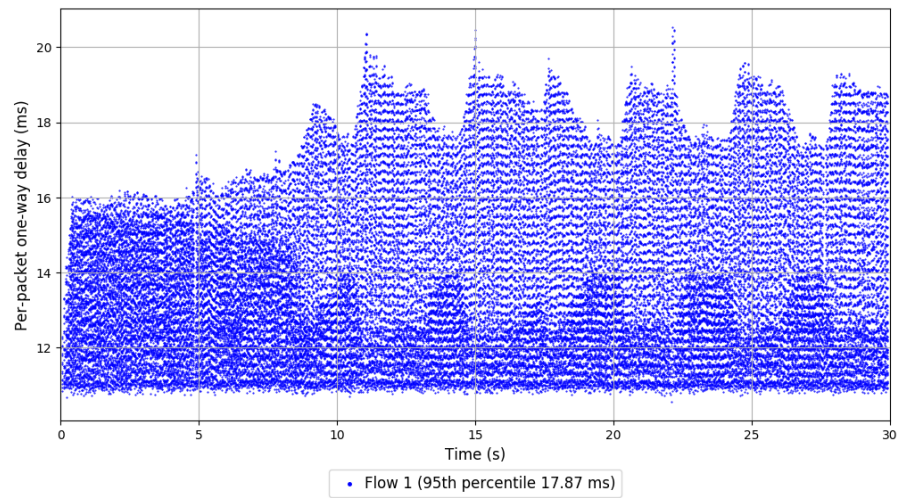
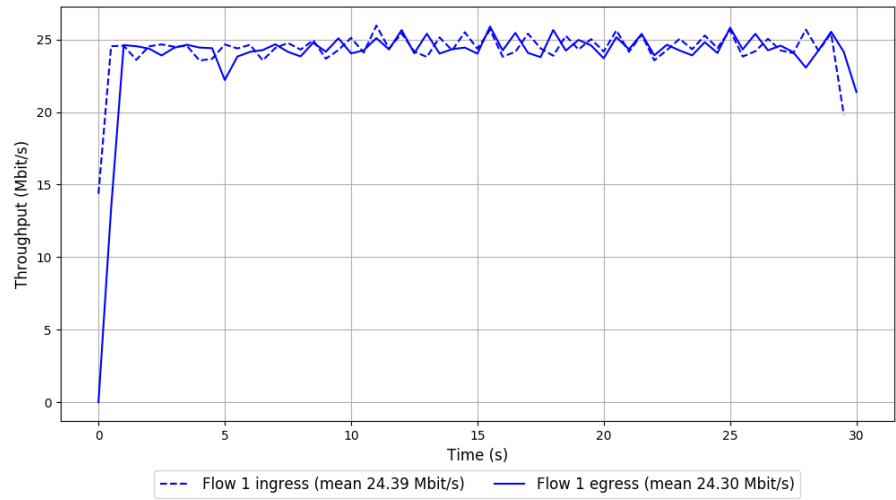


Run 7: Statistics of Sprout

Start at: 2018-05-21 23:29:58  
End at: 2018-05-21 23:30:28  
Local clock offset: -3.922 ms  
Remote clock offset: -5.658 ms

# Below is generated by plot.py at 2018-05-22 00:50:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.30 Mbit/s  
95th percentile per-packet one-way delay: 17.873 ms  
Loss rate: 0.36%  
-- Flow 1:  
Average throughput: 24.30 Mbit/s  
95th percentile per-packet one-way delay: 17.873 ms  
Loss rate: 0.36%

## Run 7: Report of Sprout — Data Link

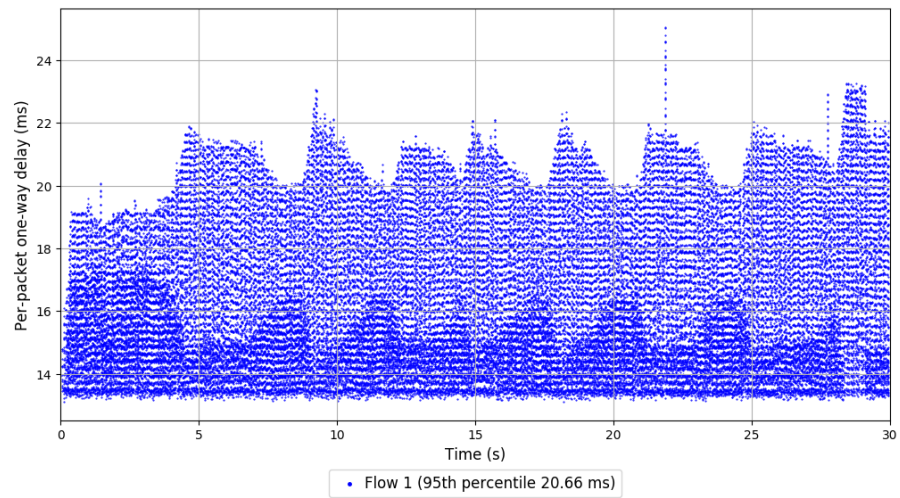
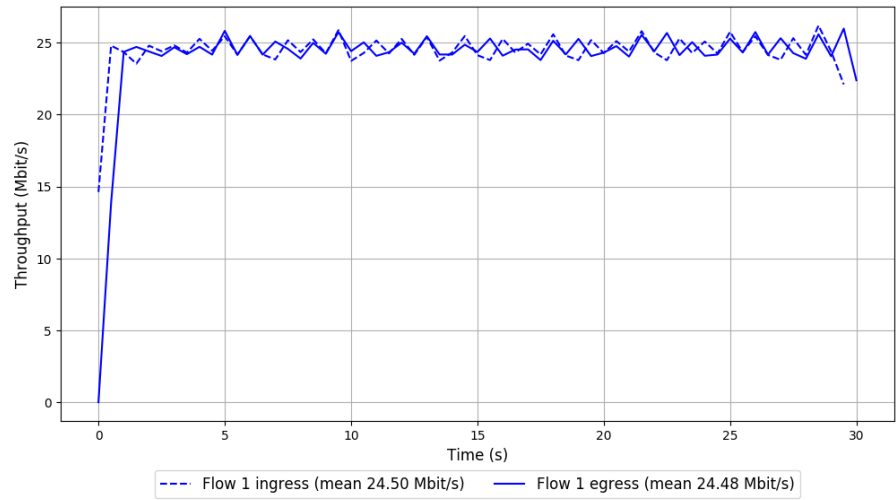


Run 8: Statistics of Sprout

Start at: 2018-05-21 23:47:48  
End at: 2018-05-21 23:48:18  
Local clock offset: -6.998 ms  
Remote clock offset: -6.393 ms

# Below is generated by plot.py at 2018-05-22 00:50:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.48 Mbit/s  
95th percentile per-packet one-way delay: 20.655 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 24.48 Mbit/s  
95th percentile per-packet one-way delay: 20.655 ms  
Loss rate: 0.08%

## Run 8: Report of Sprout — Data Link



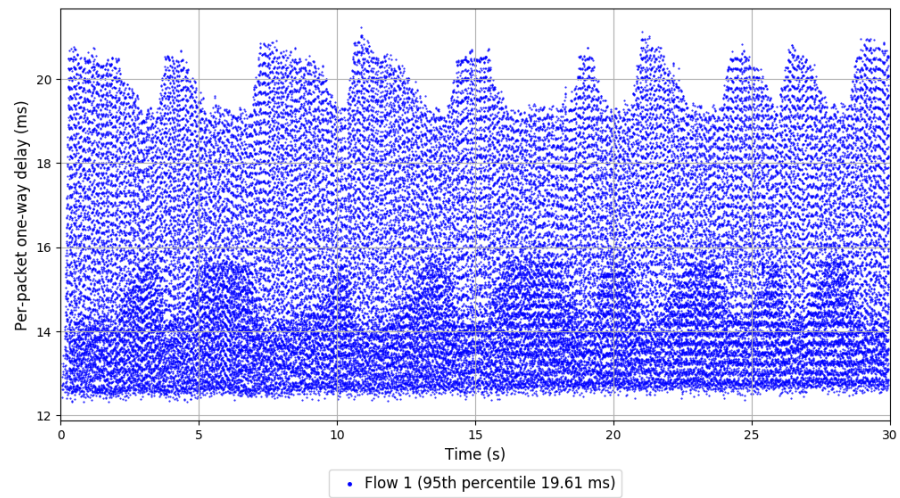
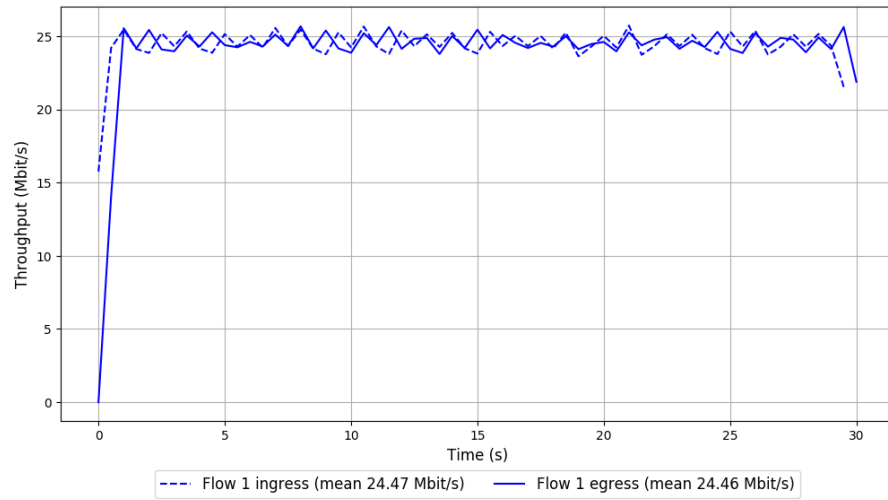
Run 9: Statistics of Sprout

Start at: 2018-05-22 00:05:32  
End at: 2018-05-22 00:06:02  
Local clock offset: -3.197 ms  
Remote clock offset: -8.316 ms

# Below is generated by plot.py at 2018-05-22 00:50:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.46 Mbit/s  
95th percentile per-packet one-way delay: 19.612 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 24.46 Mbit/s  
95th percentile per-packet one-way delay: 19.612 ms  
Loss rate: 0.01%



### Run 9: Report of Sprout — Data Link

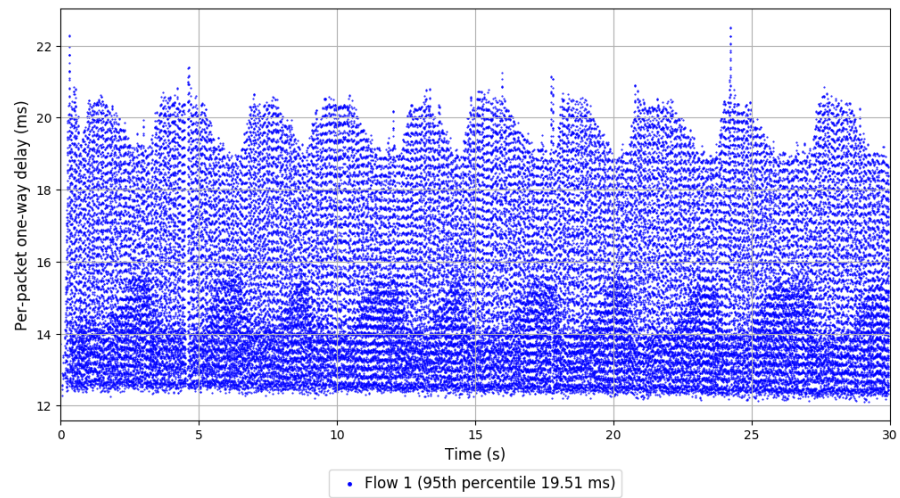
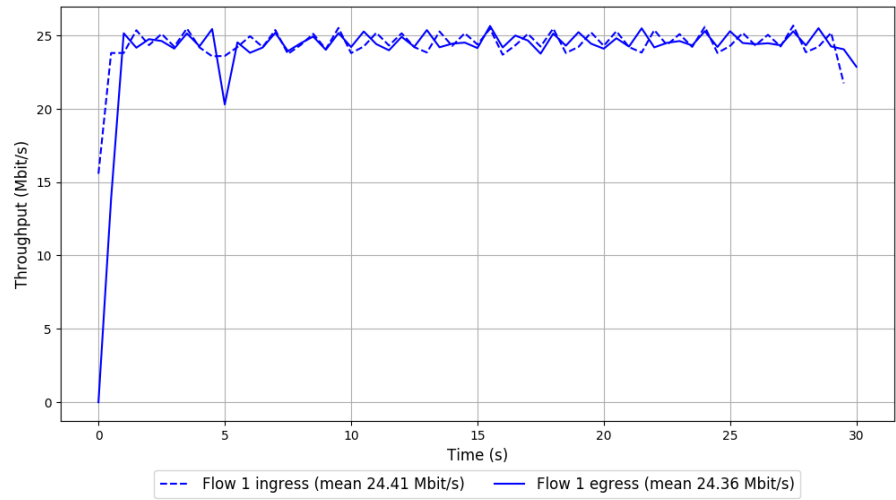


Run 10: Statistics of Sprout

Start at: 2018-05-22 00:23:21  
End at: 2018-05-22 00:23:51  
Local clock offset: -3.508 ms  
Remote clock offset: -2.435 ms

# Below is generated by plot.py at 2018-05-22 00:50:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.36 Mbit/s  
95th percentile per-packet one-way delay: 19.508 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 24.36 Mbit/s  
95th percentile per-packet one-way delay: 19.508 ms  
Loss rate: 0.19%

# Run 10: Report of Sprout — Data Link

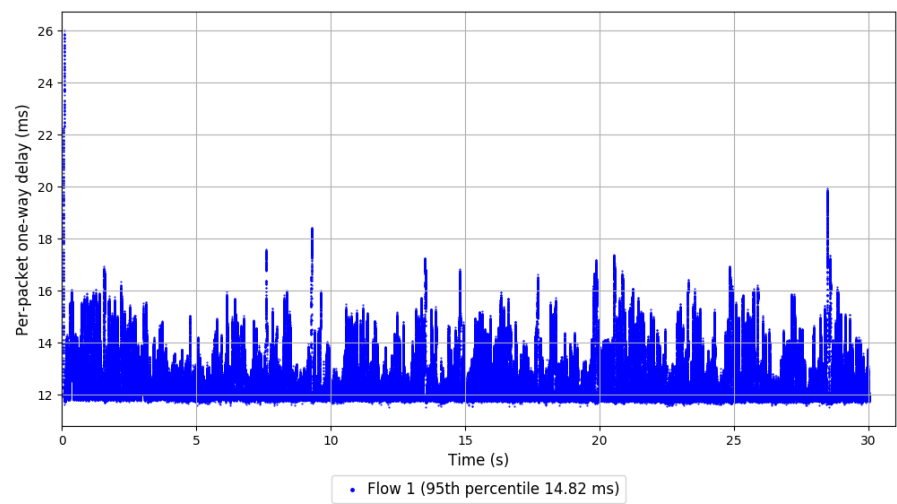
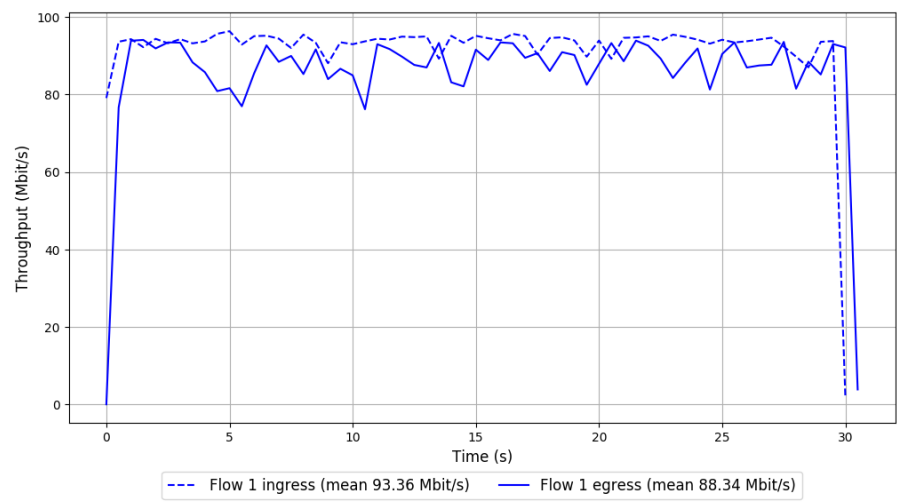


Run 1: Statistics of TaoVA-100x

Start at: 2018-05-21 21:50:53  
End at: 2018-05-21 21:51:23  
Local clock offset: -2.277 ms  
Remote clock offset: -1.646 ms

# Below is generated by plot.py at 2018-05-22 00:52:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 88.34 Mbit/s  
95th percentile per-packet one-way delay: 14.821 ms  
Loss rate: 5.38%  
-- Flow 1:  
Average throughput: 88.34 Mbit/s  
95th percentile per-packet one-way delay: 14.821 ms  
Loss rate: 5.38%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-05-21 22:08:49

End at: 2018-05-21 22:09:19

Local clock offset: 0.293 ms

Remote clock offset: -1.978 ms

# Below is generated by plot.py at 2018-05-22 00:52:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.86 Mbit/s

95th percentile per-packet one-way delay: 14.492 ms

Loss rate: 11.69%

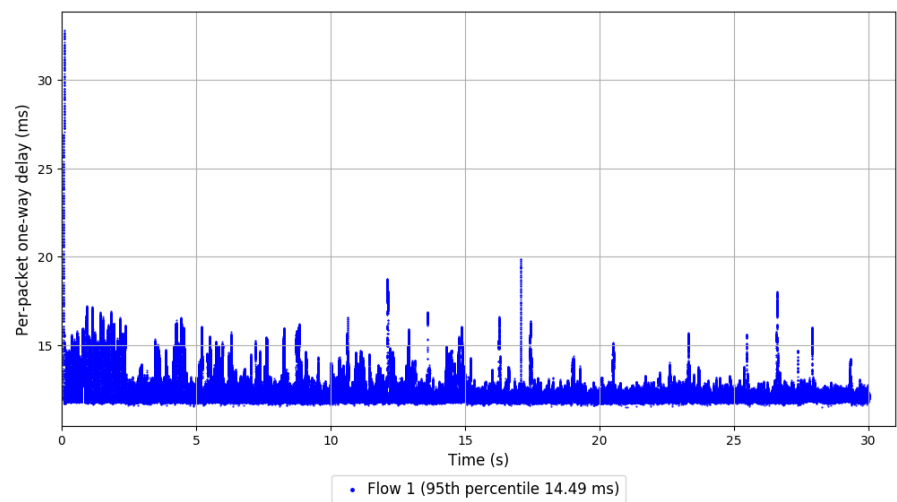
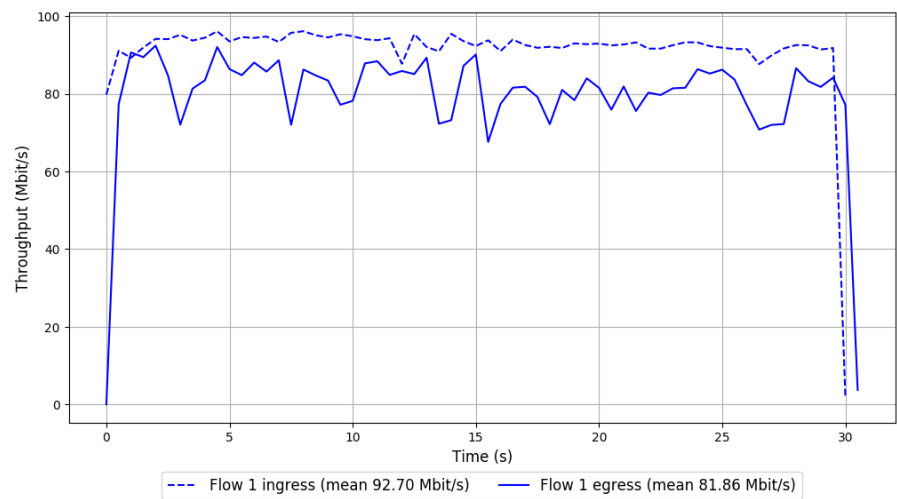
-- Flow 1:

Average throughput: 81.86 Mbit/s

95th percentile per-packet one-way delay: 14.492 ms

Loss rate: 11.69%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-21 22:26:34

End at: 2018-05-21 22:27:04

Local clock offset: 0.091 ms

Remote clock offset: -1.712 ms

# Below is generated by plot.py at 2018-05-22 00:52:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.26 Mbit/s

95th percentile per-packet one-way delay: 14.945 ms

Loss rate: 10.46%

-- Flow 1:

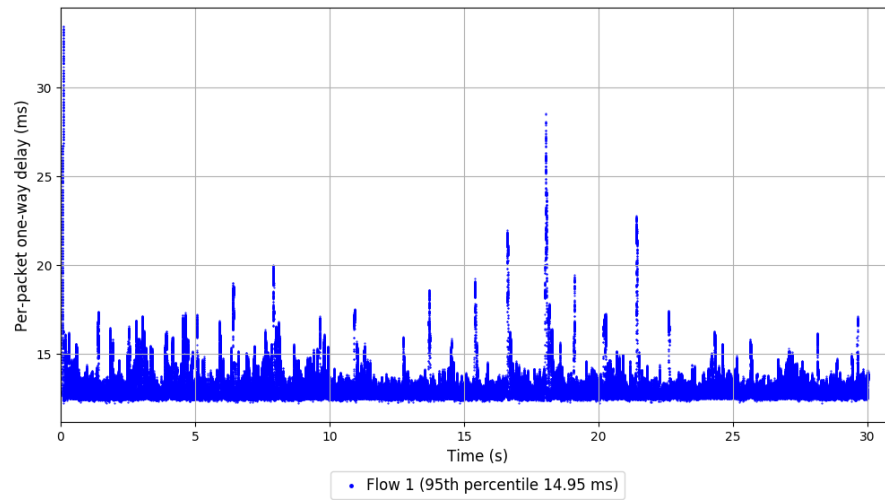
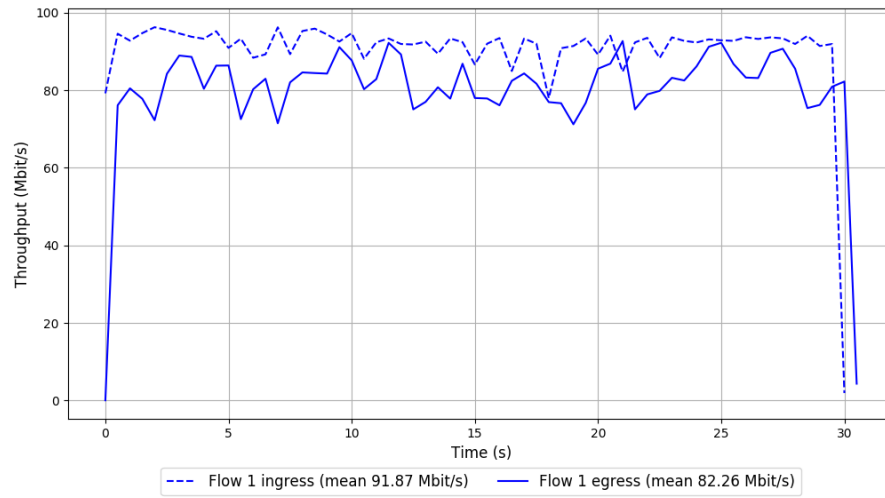
Average throughput: 82.26 Mbit/s

95th percentile per-packet one-way delay: 14.945 ms

Loss rate: 10.46%



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



Run 4: Statistics of TaoVA-100x

Start at: 2018-05-21 22:44:22

End at: 2018-05-21 22:44:52

Local clock offset: 1.9 ms

Remote clock offset: 0.762 ms

# Below is generated by plot.py at 2018-05-22 00:52:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.34 Mbit/s

95th percentile per-packet one-way delay: 13.702 ms

Loss rate: 8.86%

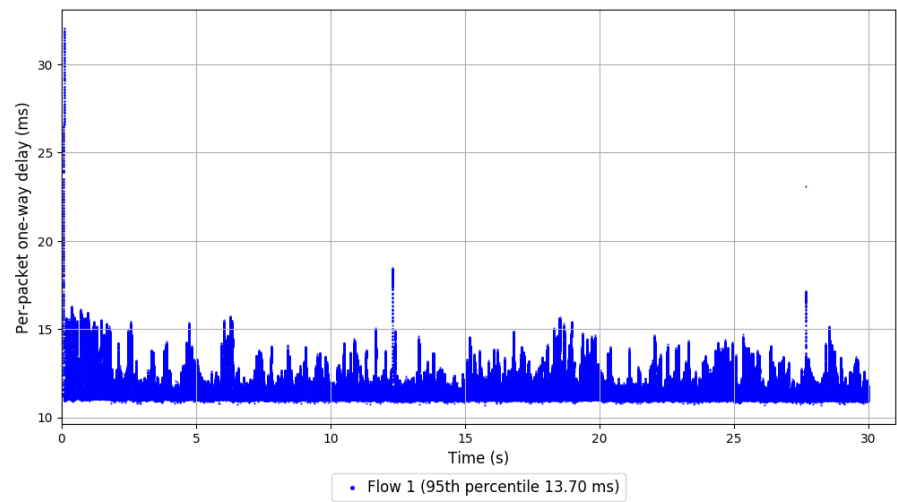
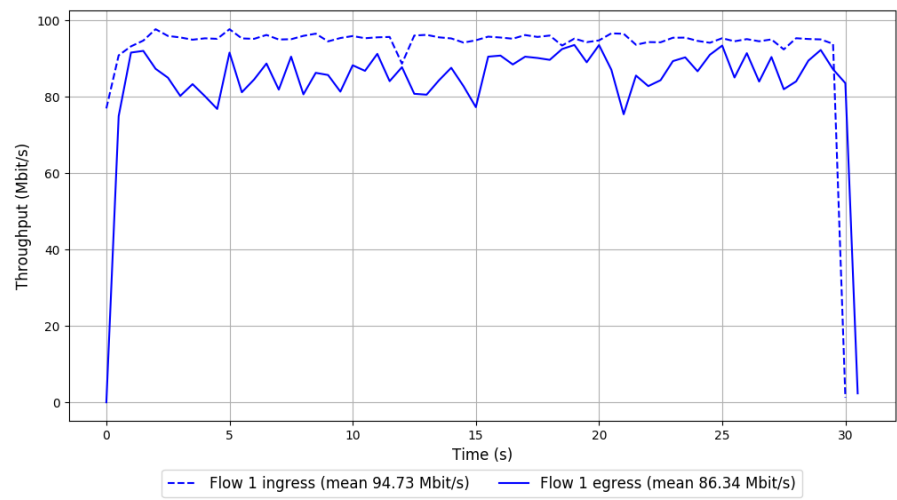
-- Flow 1:

Average throughput: 86.34 Mbit/s

95th percentile per-packet one-way delay: 13.702 ms

Loss rate: 8.86%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-21 23:02:08

End at: 2018-05-21 23:02:38

Local clock offset: -2.641 ms

Remote clock offset: 2.155 ms

# Below is generated by plot.py at 2018-05-22 00:52:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.73 Mbit/s

95th percentile per-packet one-way delay: 16.595 ms

Loss rate: 7.70%

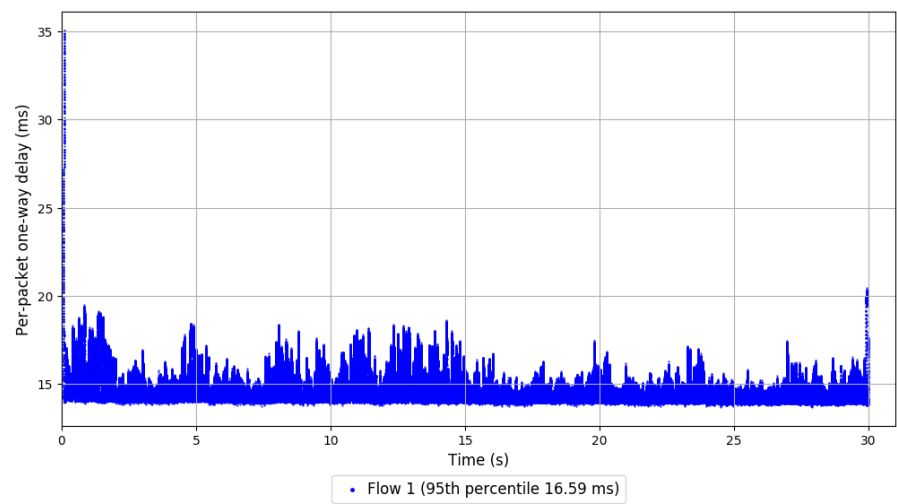
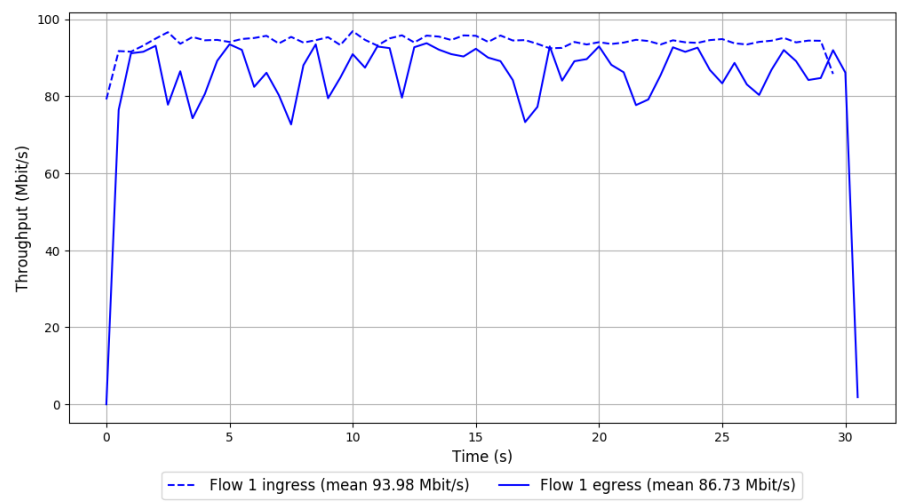
-- Flow 1:

Average throughput: 86.73 Mbit/s

95th percentile per-packet one-way delay: 16.595 ms

Loss rate: 7.70%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-05-21 23:19:52

End at: 2018-05-21 23:20:22

Local clock offset: -3.456 ms

Remote clock offset: -4.046 ms

# Below is generated by plot.py at 2018-05-22 00:52:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.32 Mbit/s

95th percentile per-packet one-way delay: 14.074 ms

Loss rate: 8.53%

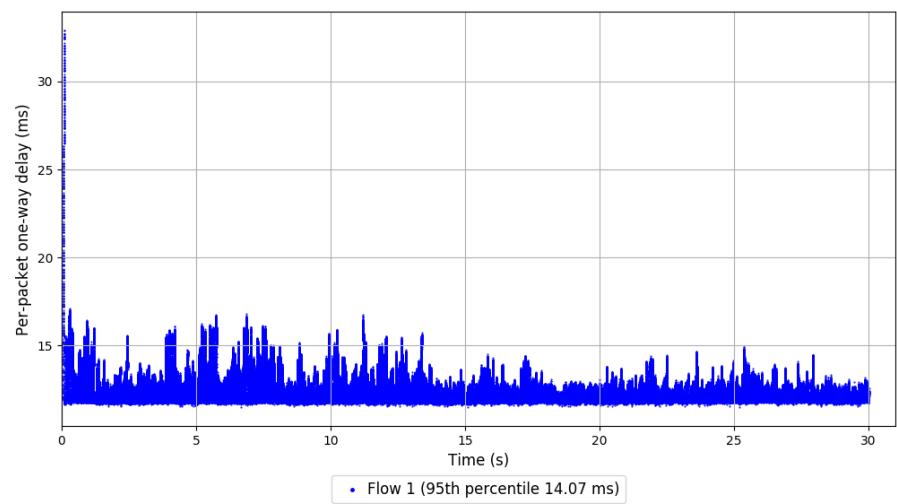
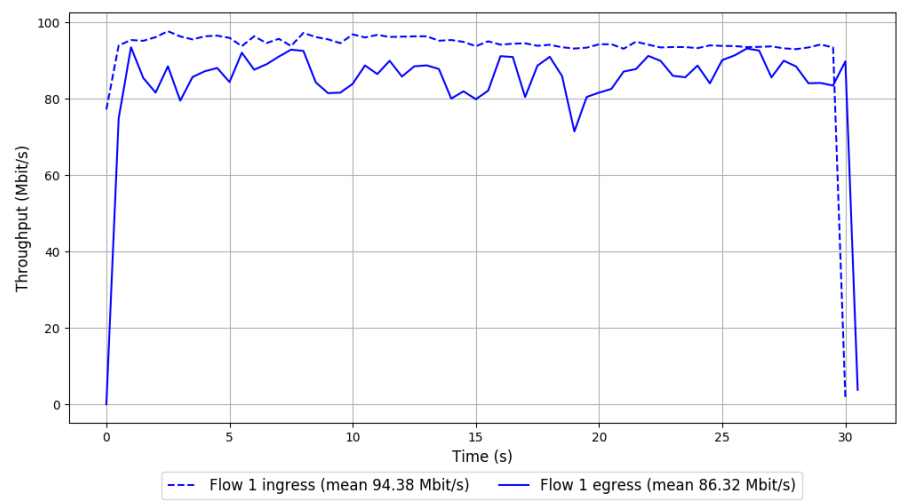
-- Flow 1:

Average throughput: 86.32 Mbit/s

95th percentile per-packet one-way delay: 14.074 ms

Loss rate: 8.53%

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



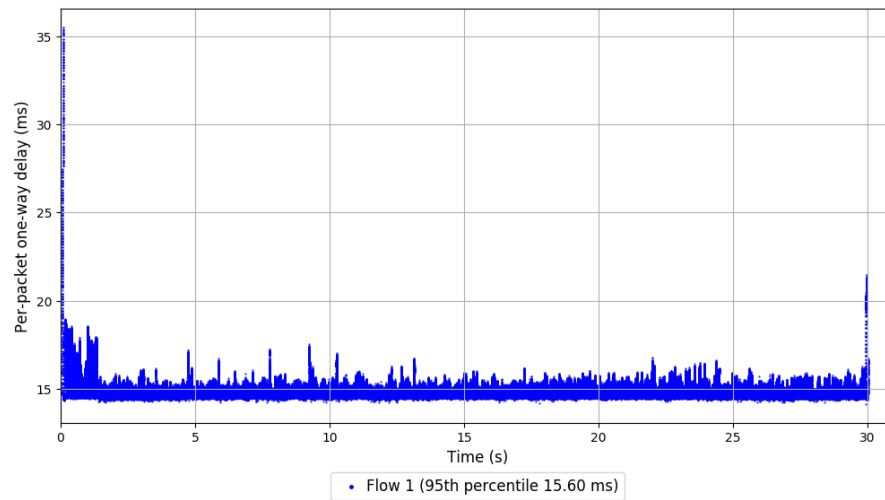
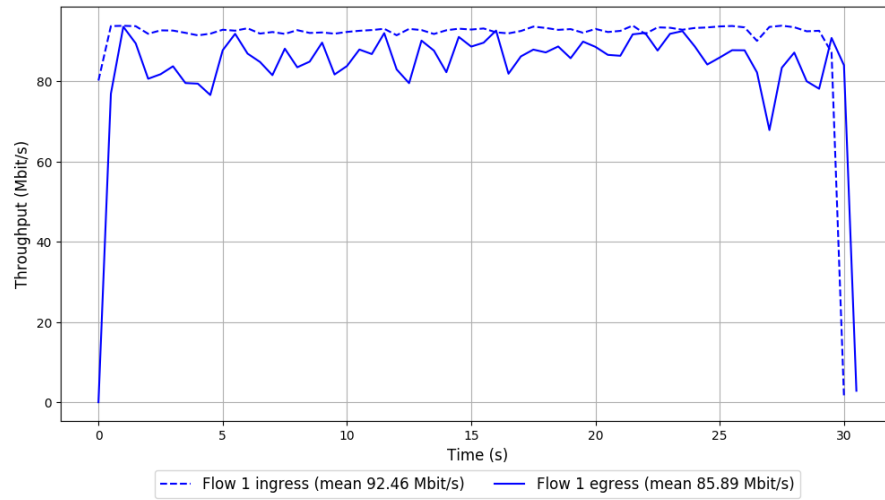
Run 7: Statistics of TaoVA-100x

Start at: 2018-05-21 23:37:43  
End at: 2018-05-21 23:38:13  
Local clock offset: -7.642 ms  
Remote clock offset: -5.808 ms

# Below is generated by plot.py at 2018-05-22 00:52:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.89 Mbit/s  
95th percentile per-packet one-way delay: 15.600 ms  
Loss rate: 7.10%  
-- Flow 1:  
Average throughput: 85.89 Mbit/s  
95th percentile per-packet one-way delay: 15.600 ms  
Loss rate: 7.10%



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

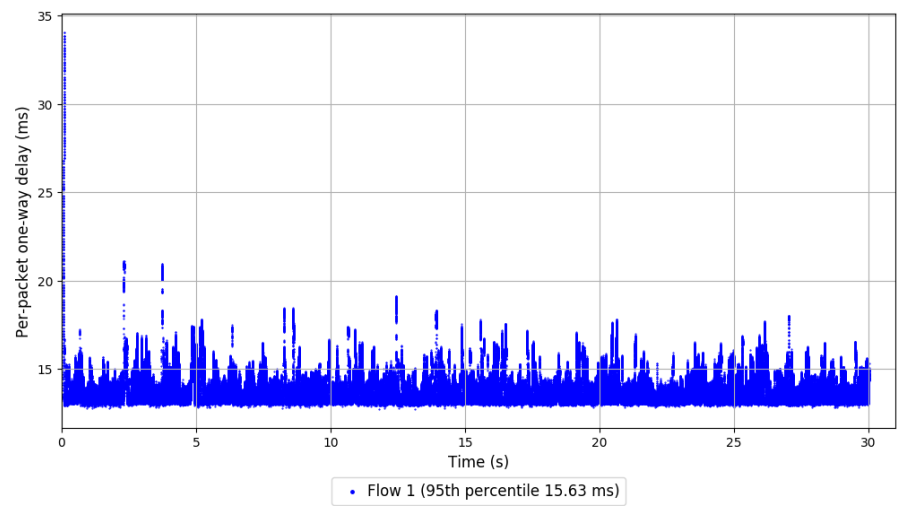
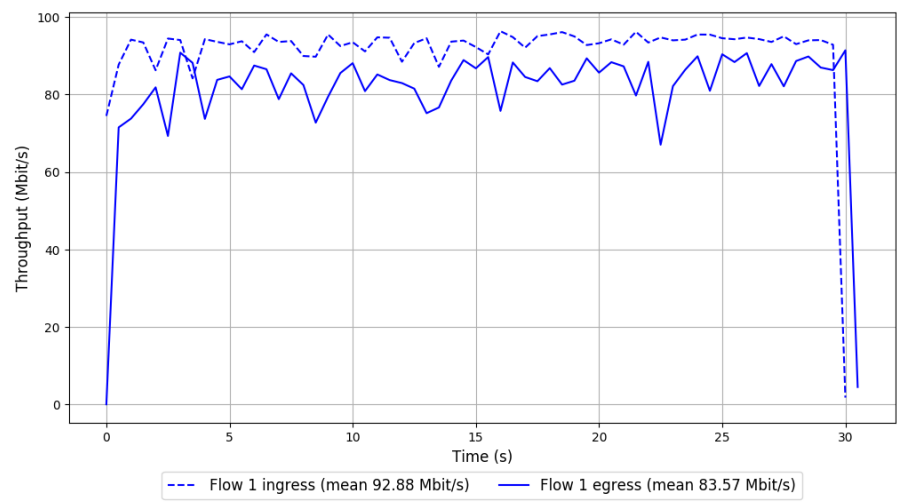


Run 8: Statistics of TaoVA-100x

Start at: 2018-05-21 23:55:32  
End at: 2018-05-21 23:56:02  
Local clock offset: -8.122 ms  
Remote clock offset: -7.691 ms

# Below is generated by plot.py at 2018-05-22 00:52:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 83.57 Mbit/s  
95th percentile per-packet one-way delay: 15.634 ms  
Loss rate: 10.02%  
-- Flow 1:  
Average throughput: 83.57 Mbit/s  
95th percentile per-packet one-way delay: 15.634 ms  
Loss rate: 10.02%

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

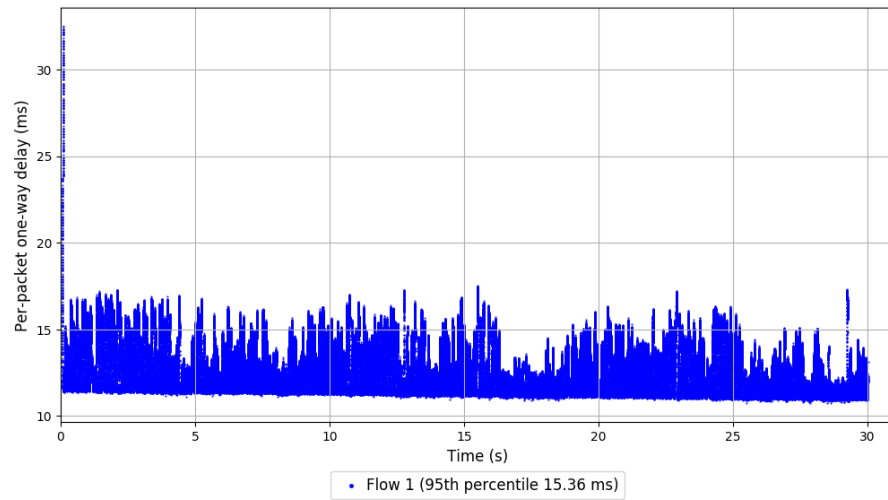
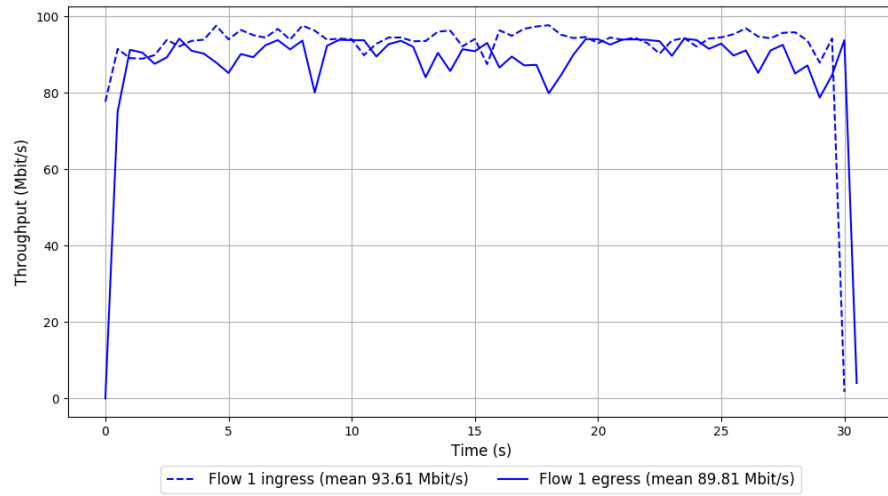


Run 9: Statistics of TaoVA-100x

Start at: 2018-05-22 00:13:20  
End at: 2018-05-22 00:13:50  
Local clock offset: -1.546 ms  
Remote clock offset: -8.308 ms

# Below is generated by plot.py at 2018-05-22 00:54:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 89.81 Mbit/s  
95th percentile per-packet one-way delay: 15.355 ms  
Loss rate: 4.06%  
-- Flow 1:  
Average throughput: 89.81 Mbit/s  
95th percentile per-packet one-way delay: 15.355 ms  
Loss rate: 4.06%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-22 00:31:11

End at: 2018-05-22 00:31:41

Local clock offset: -1.771 ms

Remote clock offset: 0.508 ms

# Below is generated by plot.py at 2018-05-22 00:54:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.56 Mbit/s

95th percentile per-packet one-way delay: 11.766 ms

Loss rate: 5.85%

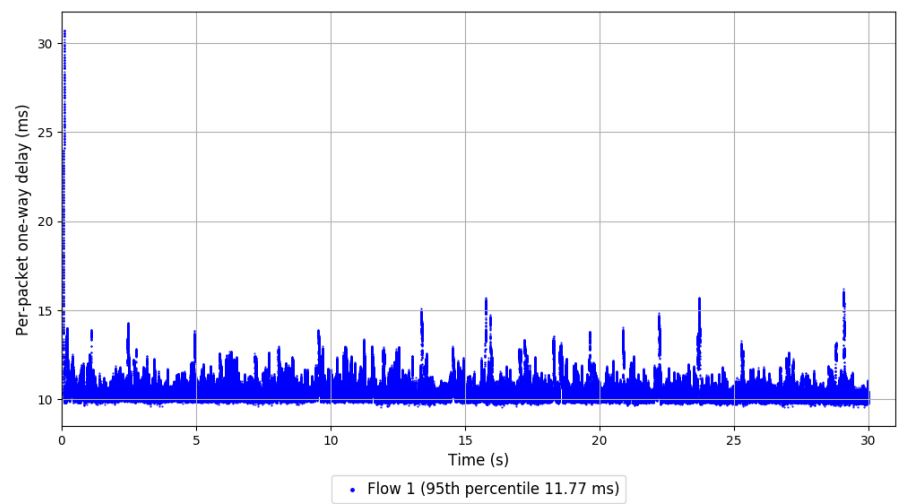
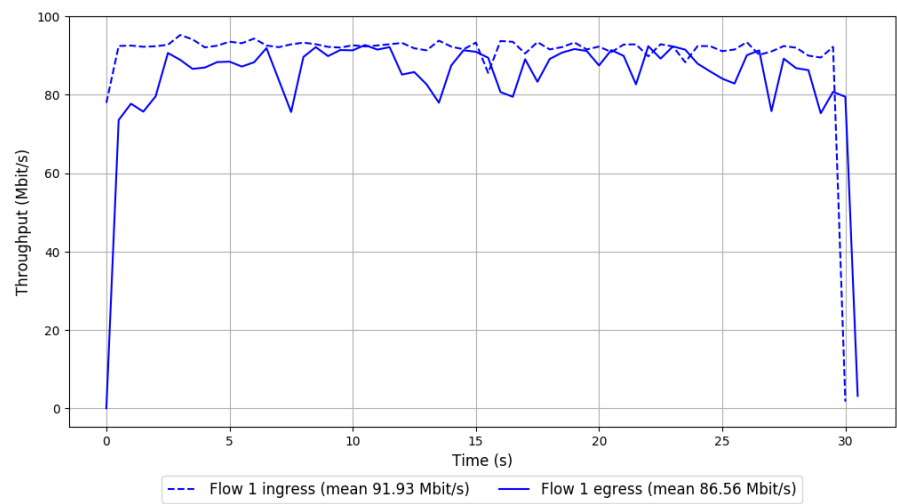
-- Flow 1:

Average throughput: 86.56 Mbit/s

95th percentile per-packet one-way delay: 11.766 ms

Loss rate: 5.85%

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



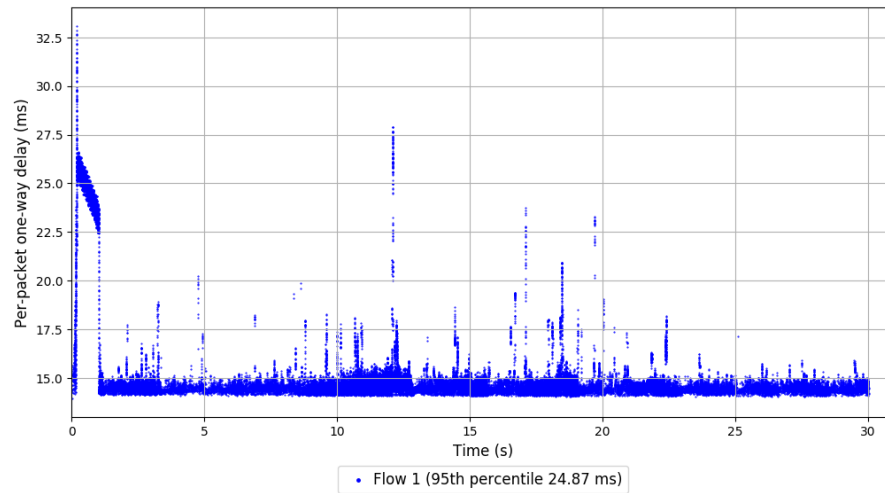
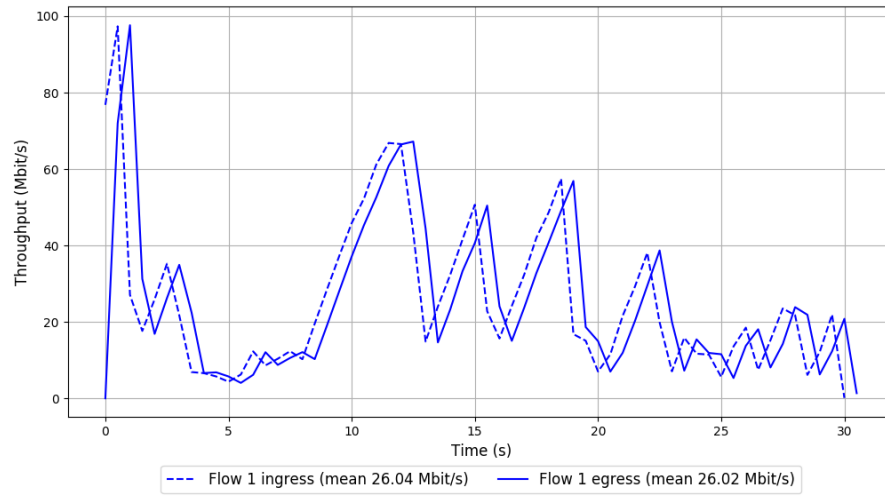
Run 1: Statistics of TCP Vegas

Start at: 2018-05-21 21:45:22  
End at: 2018-05-21 21:45:52  
Local clock offset: -3.184 ms  
Remote clock offset: -0.776 ms

# Below is generated by plot.py at 2018-05-22 00:54:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 26.02 Mbit/s  
95th percentile per-packet one-way delay: 24.868 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 26.02 Mbit/s  
95th percentile per-packet one-way delay: 24.868 ms  
Loss rate: 0.09%



# Run 1: Report of TCP Vegas — Data Link

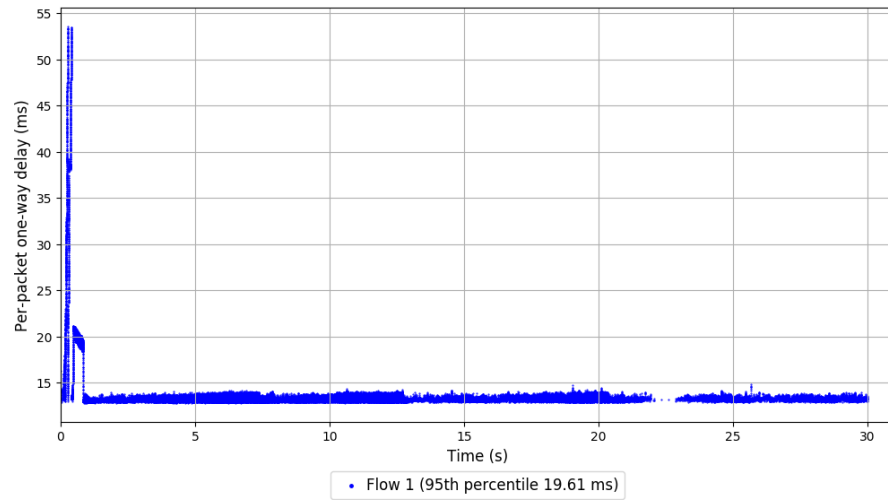
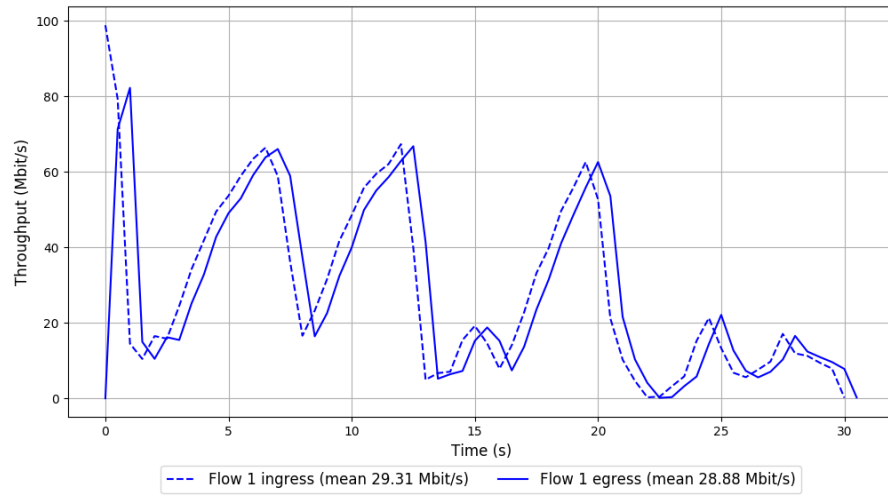


Run 2: Statistics of TCP Vegas

Start at: 2018-05-21 22:03:14  
End at: 2018-05-21 22:03:44  
Local clock offset: -1.617 ms  
Remote clock offset: -1.925 ms

# Below is generated by plot.py at 2018-05-22 00:54:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 28.88 Mbit/s  
95th percentile per-packet one-way delay: 19.614 ms  
Loss rate: 1.46%  
-- Flow 1:  
Average throughput: 28.88 Mbit/s  
95th percentile per-packet one-way delay: 19.614 ms  
Loss rate: 1.46%

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

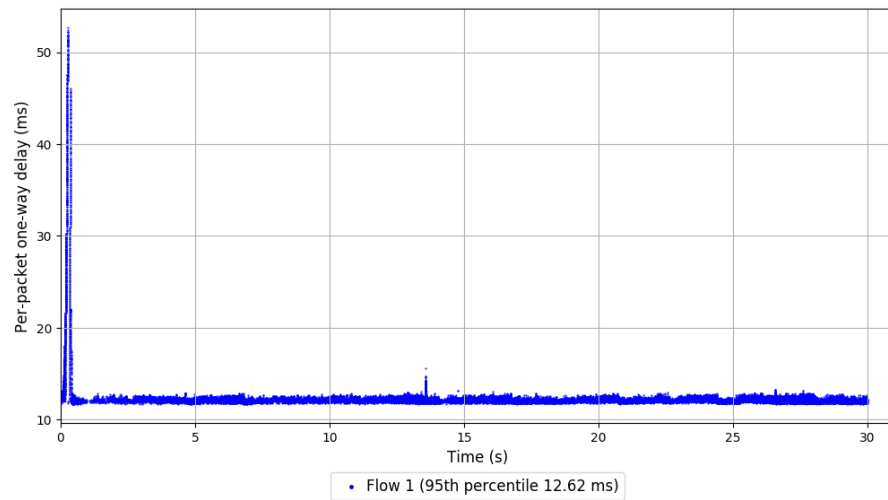
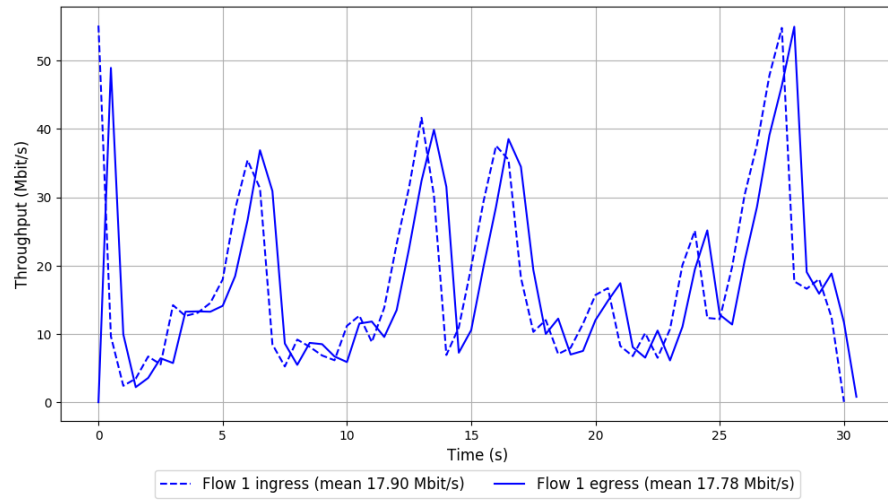


Run 3: Statistics of TCP Vegas

Start at: 2018-05-21 22:21:03  
End at: 2018-05-21 22:21:33  
Local clock offset: 0.442 ms  
Remote clock offset: -2.167 ms

# Below is generated by plot.py at 2018-05-22 00:54:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 17.78 Mbit/s  
95th percentile per-packet one-way delay: 12.622 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 17.78 Mbit/s  
95th percentile per-packet one-way delay: 12.622 ms  
Loss rate: 0.68%

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



Run 4: Statistics of TCP Vegas

Start at: 2018-05-21 22:38:44

End at: 2018-05-21 22:39:14

Local clock offset: -1.267 ms

Remote clock offset: 0.509 ms

# Below is generated by plot.py at 2018-05-22 00:54:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 35.38 Mbit/s

95th percentile per-packet one-way delay: 23.613 ms

Loss rate: 0.04%

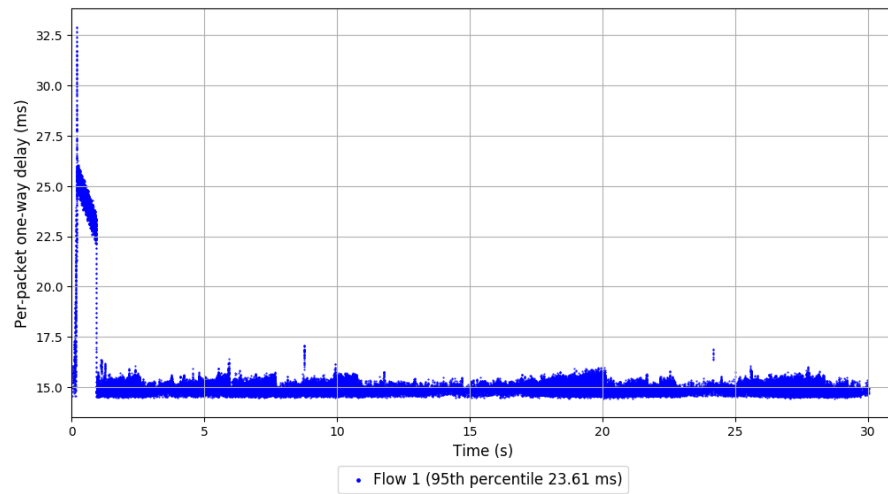
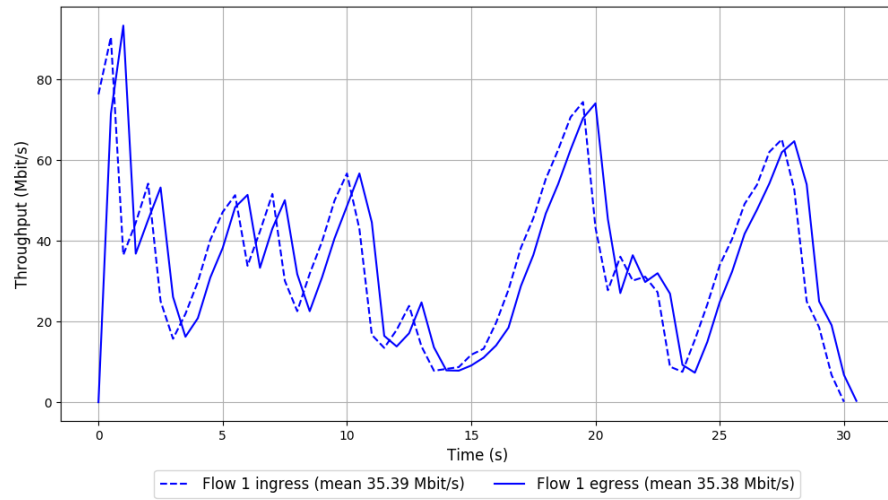
-- Flow 1:

Average throughput: 35.38 Mbit/s

95th percentile per-packet one-way delay: 23.613 ms

Loss rate: 0.04%

#### Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-05-21 22:56:37

End at: 2018-05-21 22:57:08

Local clock offset: -1.314 ms

Remote clock offset: 2.176 ms

# Below is generated by plot.py at 2018-05-22 00:54:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 27.25 Mbit/s

95th percentile per-packet one-way delay: 24.967 ms

Loss rate: 0.07%

-- Flow 1:

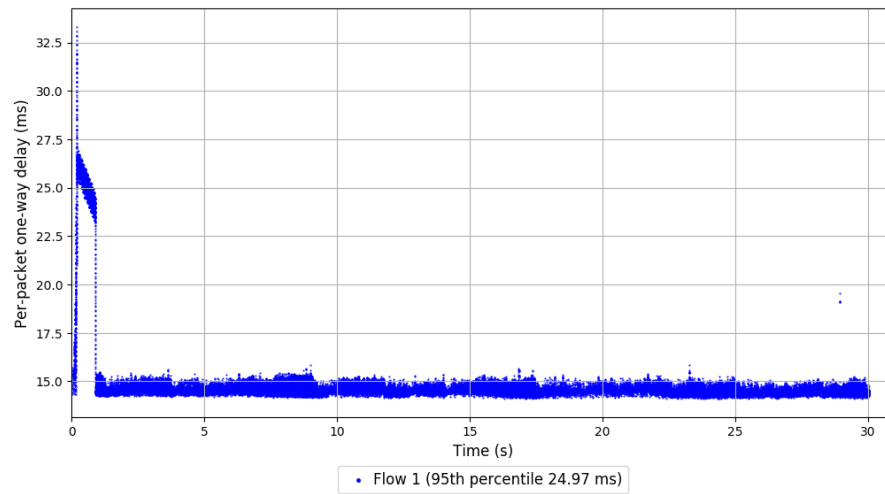
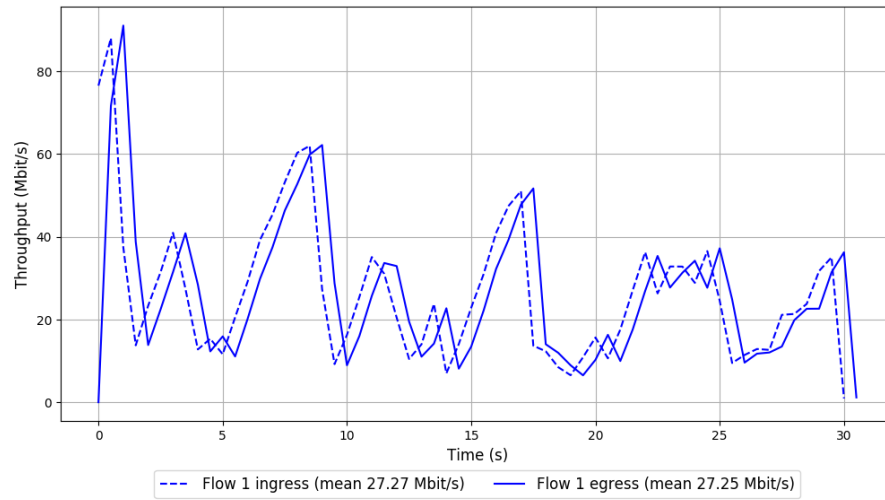
Average throughput: 27.25 Mbit/s

95th percentile per-packet one-way delay: 24.967 ms

Loss rate: 0.07%



### Run 5: Report of TCP Vegas — Data Link

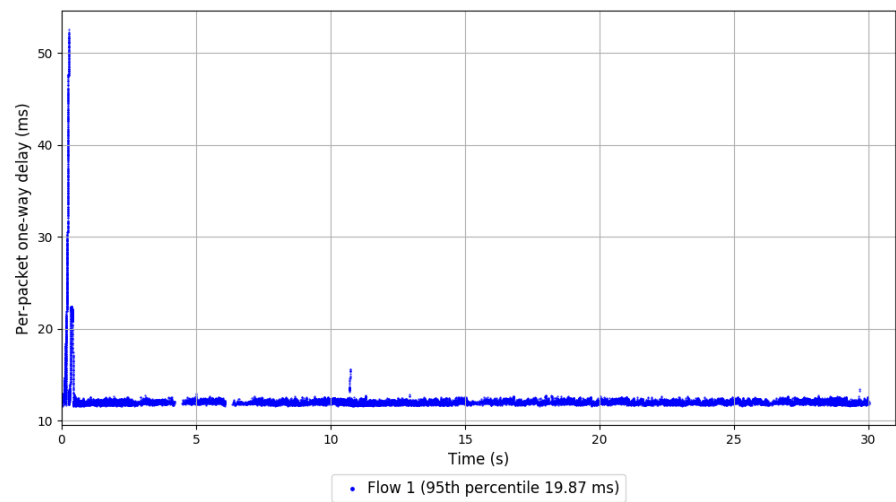
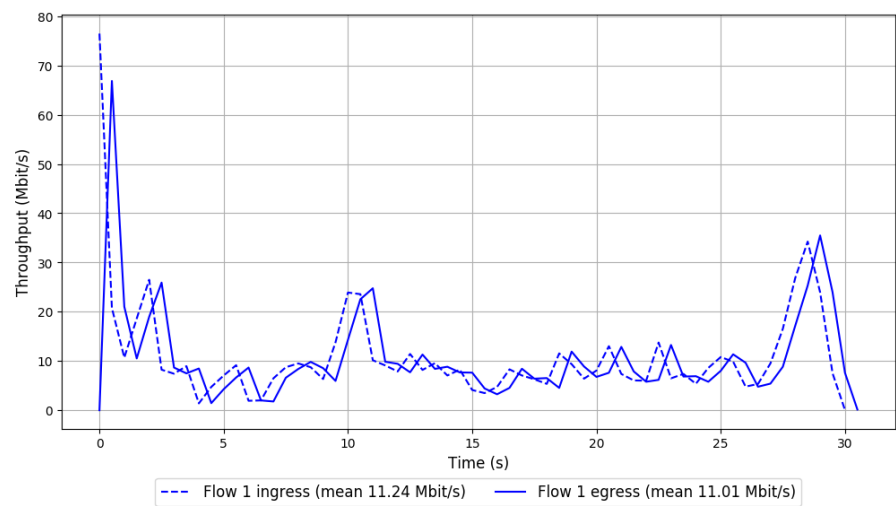


Run 6: Statistics of TCP Vegas

Start at: 2018-05-21 23:14:21  
End at: 2018-05-21 23:14:51  
Local clock offset: -2.6 ms  
Remote clock offset: -2.717 ms

# Below is generated by plot.py at 2018-05-22 00:54:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 11.01 Mbit/s  
95th percentile per-packet one-way delay: 19.867 ms  
Loss rate: 2.05%  
-- Flow 1:  
Average throughput: 11.01 Mbit/s  
95th percentile per-packet one-way delay: 19.867 ms  
Loss rate: 2.05%

Run 6: Report of TCP Vegas — Data Link

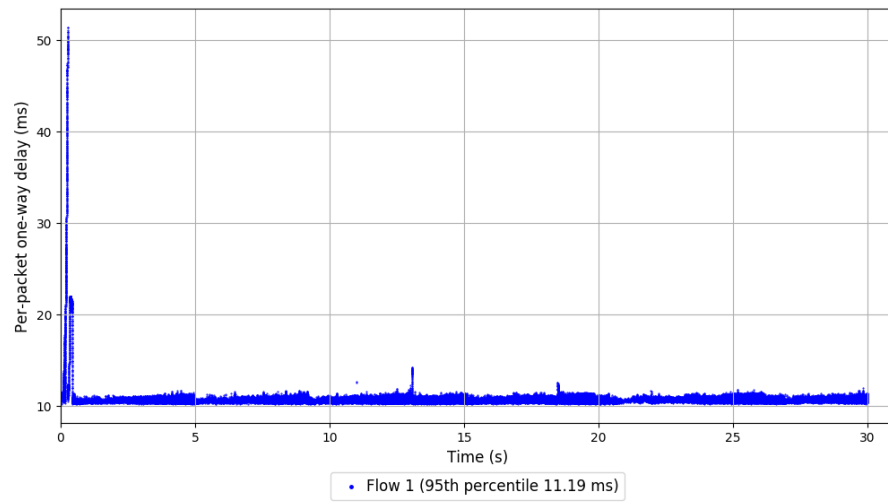
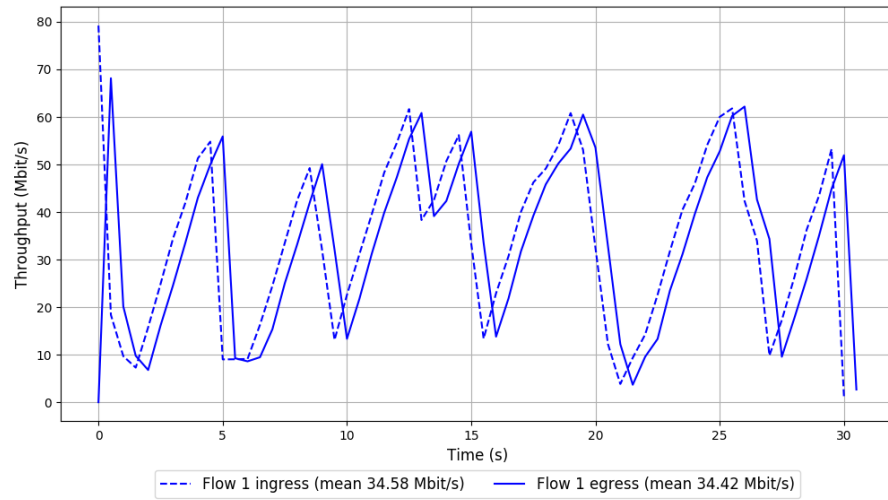


Run 7: Statistics of TCP Vegas

Start at: 2018-05-21 23:32:12  
End at: 2018-05-21 23:32:42  
Local clock offset: -2.882 ms  
Remote clock offset: -5.076 ms

# Below is generated by plot.py at 2018-05-22 00:54:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 34.42 Mbit/s  
95th percentile per-packet one-way delay: 11.185 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 34.42 Mbit/s  
95th percentile per-packet one-way delay: 11.185 ms  
Loss rate: 0.49%

### Run 7: Report of TCP Vegas — Data Link

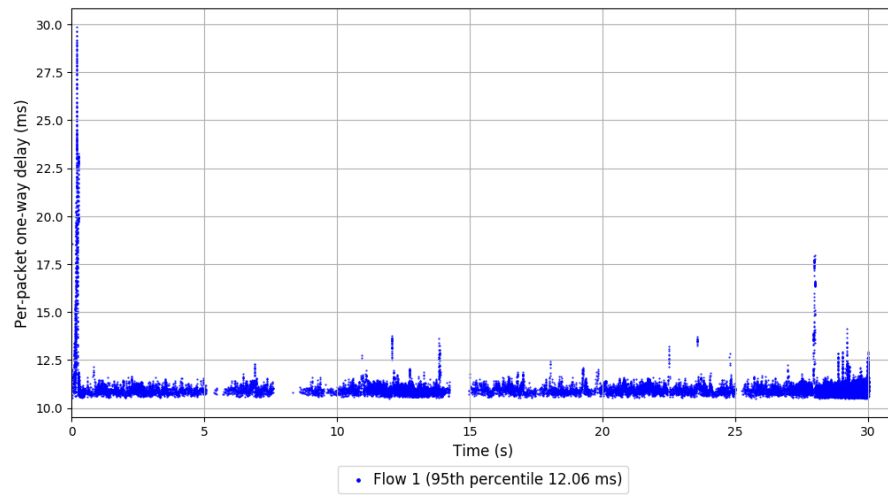
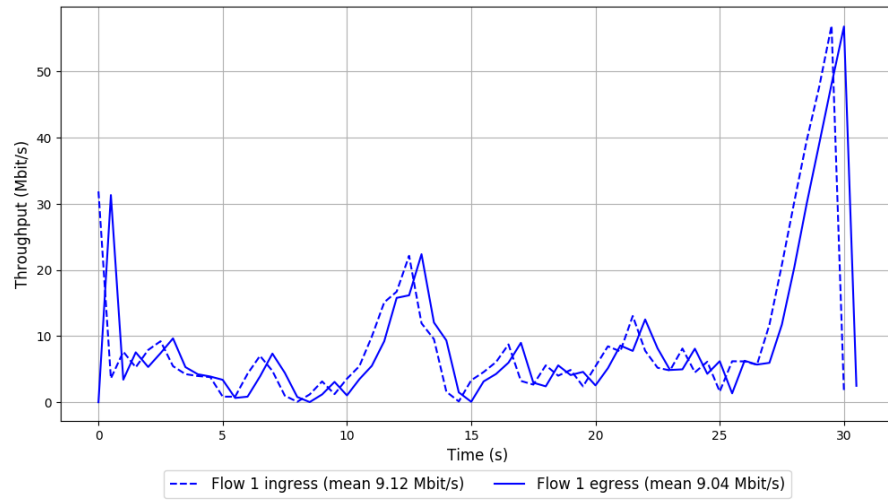


Run 8: Statistics of TCP Vegas

Start at: 2018-05-21 23:50:01  
End at: 2018-05-21 23:50:31  
Local clock offset: -4.604 ms  
Remote clock offset: -6.606 ms

# Below is generated by plot.py at 2018-05-22 00:54:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 9.04 Mbit/s  
95th percentile per-packet one-way delay: 12.060 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 9.04 Mbit/s  
95th percentile per-packet one-way delay: 12.060 ms  
Loss rate: 0.89%

# Run 8: Report of TCP Vegas — Data Link



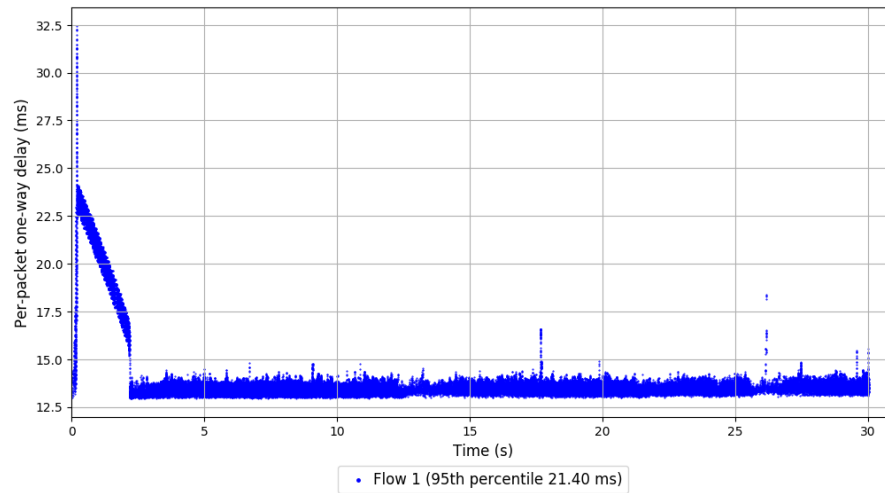
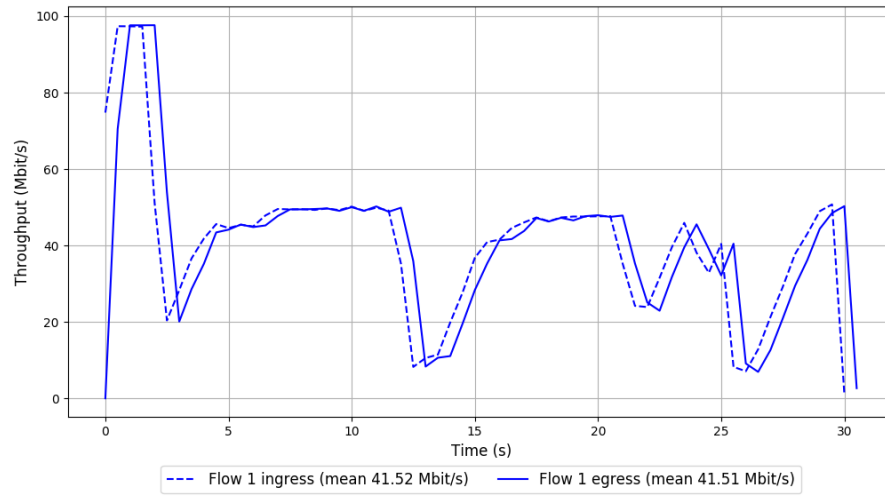
Run 9: Statistics of TCP Vegas

Start at: 2018-05-22 00:07:47  
End at: 2018-05-22 00:08:17  
Local clock offset: -5.623 ms  
Remote clock offset: -9.444 ms

# Below is generated by plot.py at 2018-05-22 00:54:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 41.51 Mbit/s  
95th percentile per-packet one-way delay: 21.403 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 41.51 Mbit/s  
95th percentile per-packet one-way delay: 21.403 ms  
Loss rate: 0.02%



### Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-05-22 00:25:36

End at: 2018-05-22 00:26:06

Local clock offset: -0.25 ms

Remote clock offset: 0.445 ms

# Below is generated by plot.py at 2018-05-22 00:54:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 35.95 Mbit/s

95th percentile per-packet one-way delay: 18.824 ms

Loss rate: 0.02%

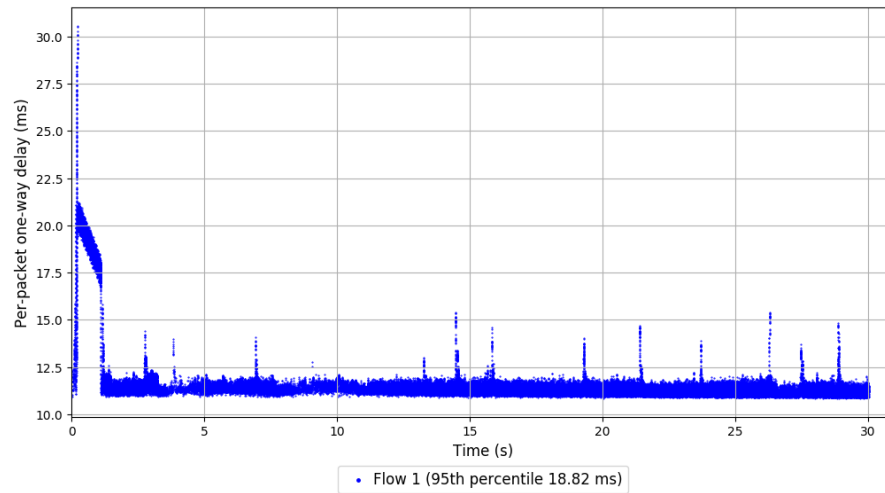
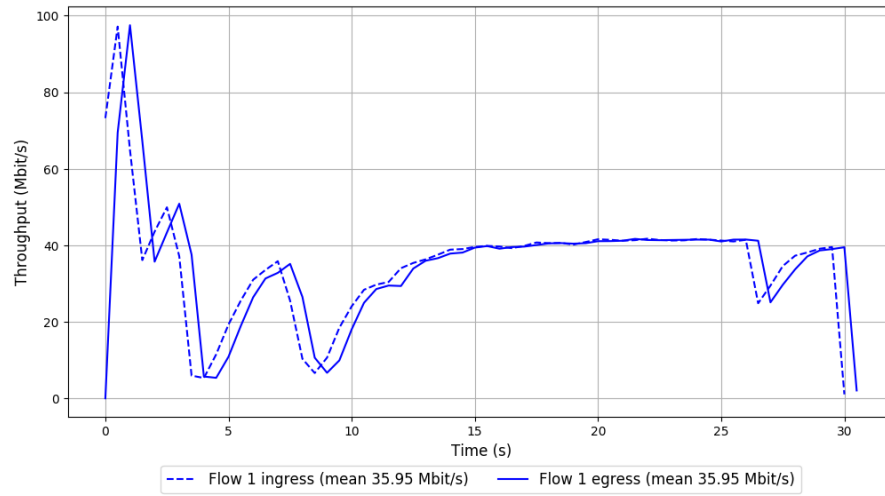
-- Flow 1:

Average throughput: 35.95 Mbit/s

95th percentile per-packet one-way delay: 18.824 ms

Loss rate: 0.02%

# Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-21 21:46:27

End at: 2018-05-21 21:46:57

Local clock offset: -4.754 ms

Remote clock offset: -1.441 ms

Run 1: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Verus

Start at: 2018-05-21 22:04:19

End at: 2018-05-21 22:04:49

Local clock offset: -1.819 ms

Remote clock offset: -2.958 ms

Run 2: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Verus

Start at: 2018-05-21 22:22:08

End at: 2018-05-21 22:22:38

Local clock offset: 0.255 ms

Remote clock offset: -1.915 ms



Run 3: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of Verus

Start at: 2018-05-21 22:39:50

End at: 2018-05-21 22:40:20

Local clock offset: 0.787 ms

Remote clock offset: 0.758 ms

Run 4: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of Verus

Start at: 2018-05-21 22:57:43

End at: 2018-05-21 22:58:13

Local clock offset: -0.198 ms

Remote clock offset: 2.117 ms

Run 5: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of Verus

Start at: 2018-05-21 23:15:25

End at: 2018-05-21 23:15:55

Local clock offset: -0.832 ms

Remote clock offset: -3.481 ms

Run 6: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of Verus

Start at: 2018-05-21 23:33:18

End at: 2018-05-21 23:33:48

Local clock offset: -3.414 ms

Remote clock offset: -5.011 ms



Run 7: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of Verus

Start at: 2018-05-21 23:51:06

End at: 2018-05-21 23:51:36

Local clock offset: -7.257 ms

Remote clock offset: -6.818 ms

Run 8: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of Verus

Start at: 2018-05-22 00:08:53

End at: 2018-05-22 00:09:24

Local clock offset: -4.614 ms

Remote clock offset: -8.522 ms

Run 9: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of Verus

Start at: 2018-05-22 00:26:42

End at: 2018-05-22 00:27:12

Local clock offset: -1.831 ms

Remote clock offset: 0.562 ms

Run 10: Report of Verus — Data Link

Figure is missing

Figure is missing

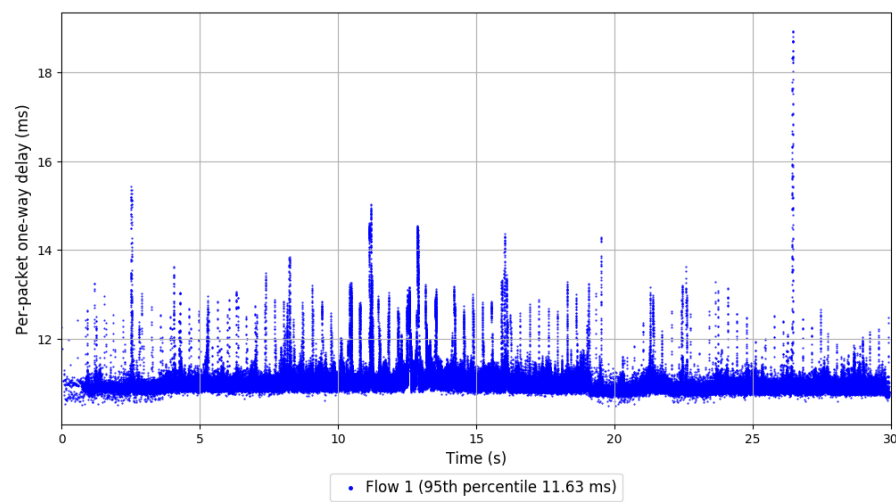
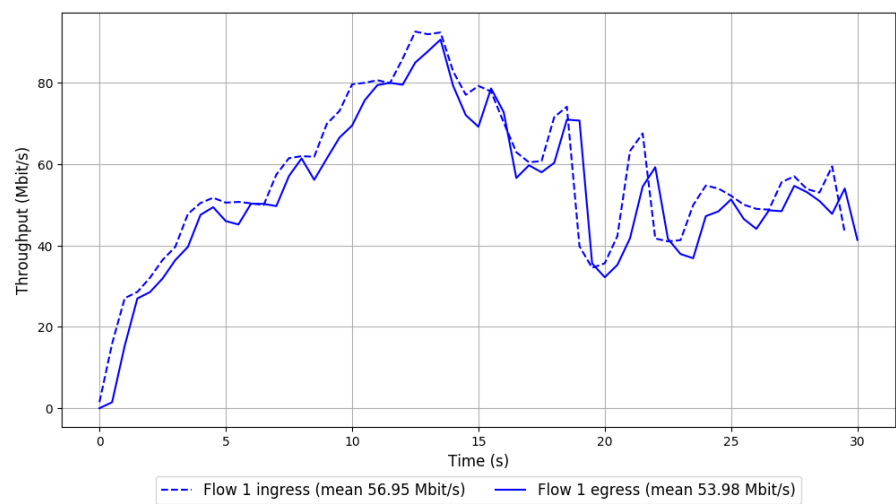
Run 1: Statistics of PCC-Vivace

Start at: 2018-05-21 21:42:00  
End at: 2018-05-21 21:42:30  
Local clock offset: -0.37 ms  
Remote clock offset: -1.691 ms

# Below is generated by plot.py at 2018-05-22 00:54:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 53.98 Mbit/s  
95th percentile per-packet one-way delay: 11.627 ms  
Loss rate: 5.23%  
-- Flow 1:  
Average throughput: 53.98 Mbit/s  
95th percentile per-packet one-way delay: 11.627 ms  
Loss rate: 5.23%



Run 1: Report of PCC-Vivace — Data Link

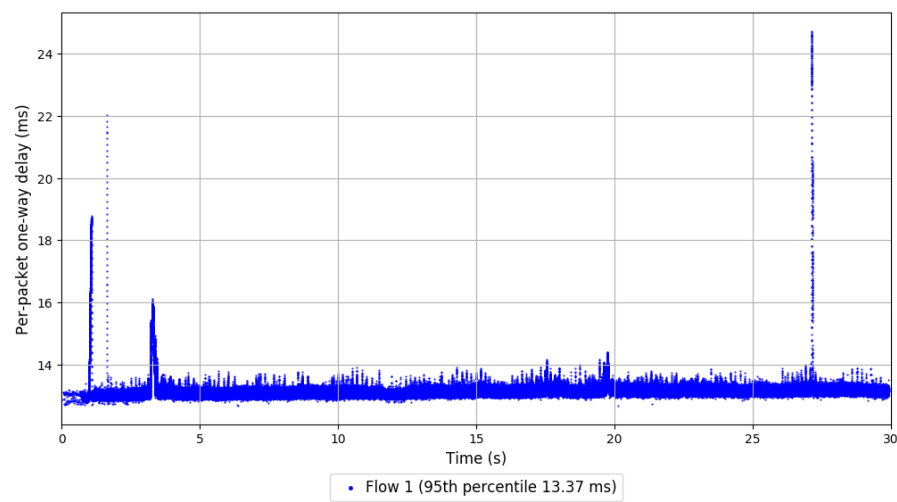
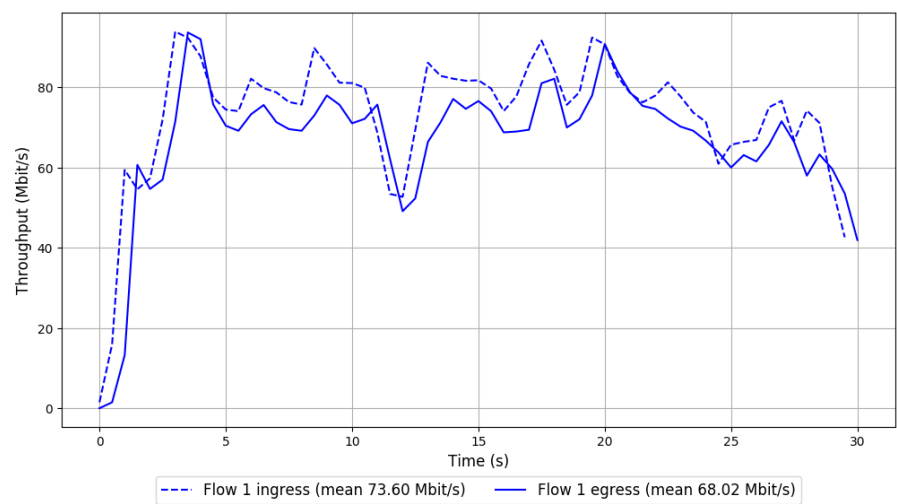


Run 2: Statistics of PCC-Vivace

Start at: 2018-05-21 21:59:51  
End at: 2018-05-21 22:00:22  
Local clock offset: -1.809 ms  
Remote clock offset: -1.134 ms

# Below is generated by plot.py at 2018-05-22 00:54:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 68.02 Mbit/s  
95th percentile per-packet one-way delay: 13.371 ms  
Loss rate: 7.58%  
-- Flow 1:  
Average throughput: 68.02 Mbit/s  
95th percentile per-packet one-way delay: 13.371 ms  
Loss rate: 7.58%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-05-21 22:17:38

End at: 2018-05-21 22:18:08

Local clock offset: 0.631 ms

Remote clock offset: -1.458 ms

# Below is generated by plot.py at 2018-05-22 00:54:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 41.82 Mbit/s

95th percentile per-packet one-way delay: 12.602 ms

Loss rate: 7.33%

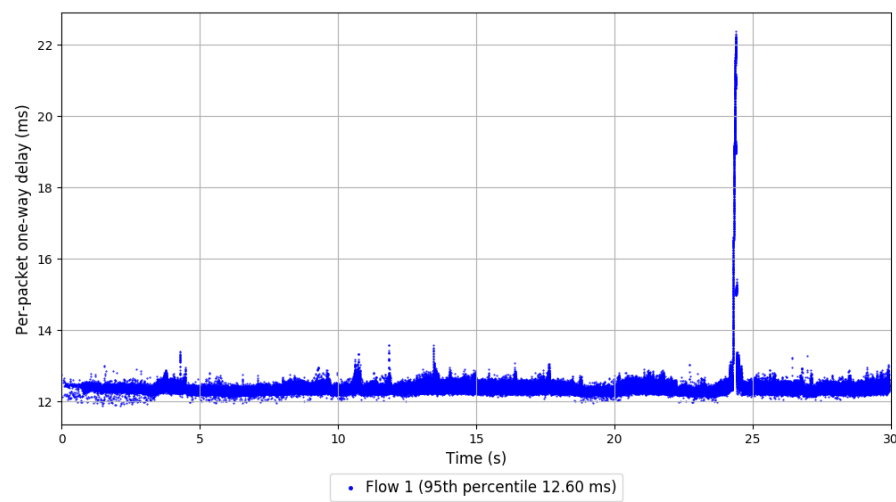
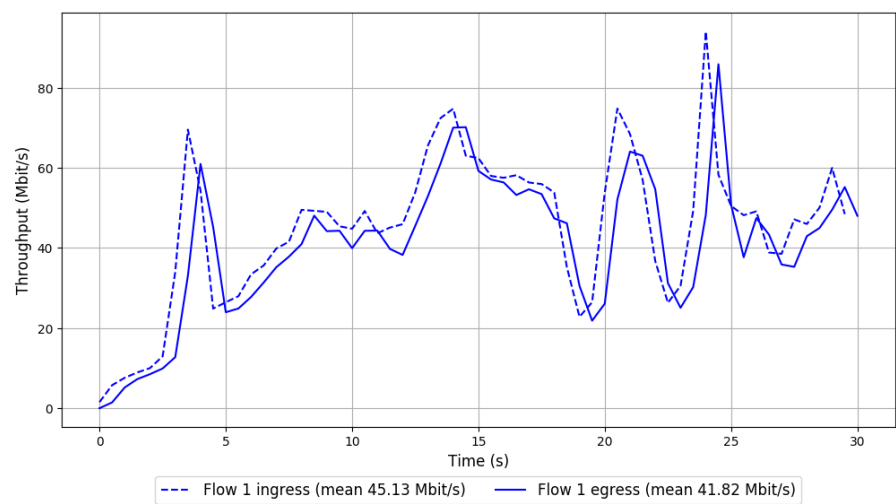
-- Flow 1:

Average throughput: 41.82 Mbit/s

95th percentile per-packet one-way delay: 12.602 ms

Loss rate: 7.33%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-05-21 22:35:24

End at: 2018-05-21 22:35:54

Local clock offset: 0.25 ms

Remote clock offset: 0.204 ms

# Below is generated by plot.py at 2018-05-22 00:54:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 43.65 Mbit/s

95th percentile per-packet one-way delay: 13.734 ms

Loss rate: 7.51%

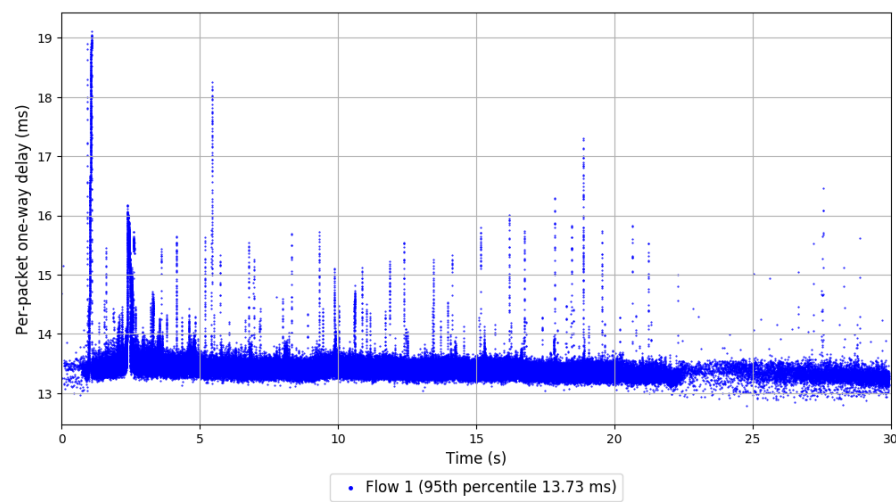
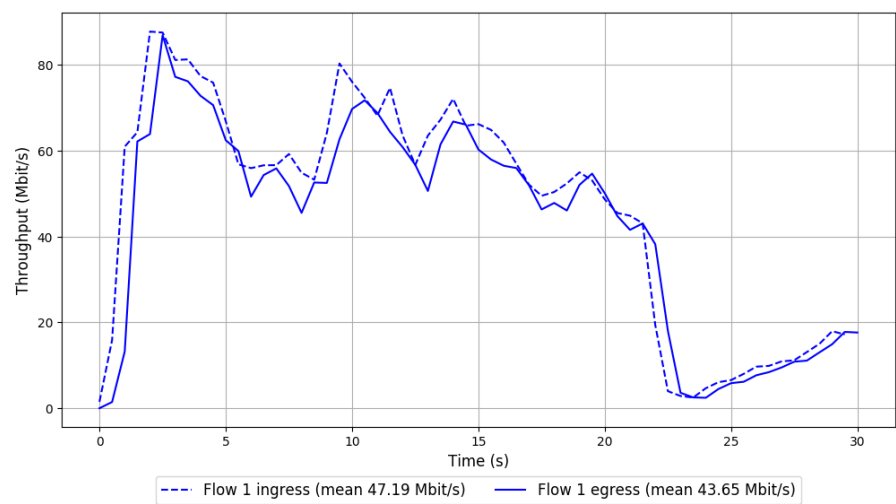
-- Flow 1:

Average throughput: 43.65 Mbit/s

95th percentile per-packet one-way delay: 13.734 ms

Loss rate: 7.51%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-05-21 22:53:14

End at: 2018-05-21 22:53:44

Local clock offset: 0.883 ms

Remote clock offset: 1.833 ms

# Below is generated by plot.py at 2018-05-22 00:54:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.68 Mbit/s

95th percentile per-packet one-way delay: 12.859 ms

Loss rate: 2.68%

-- Flow 1:

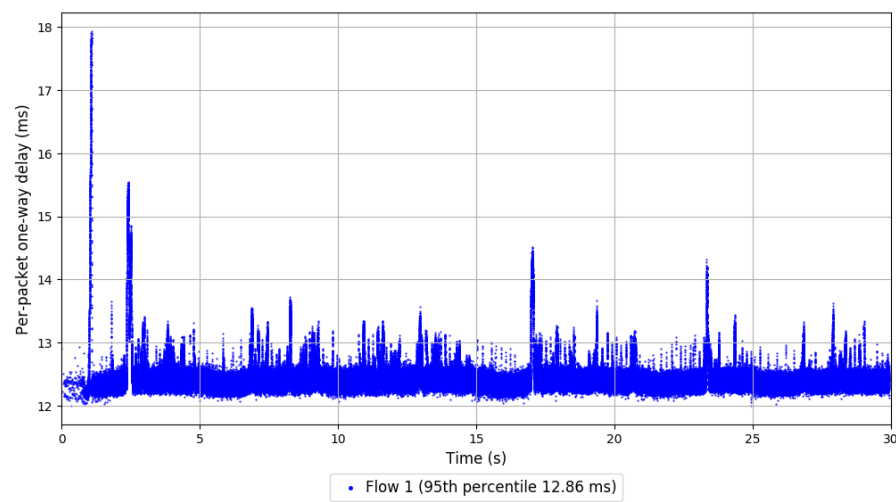
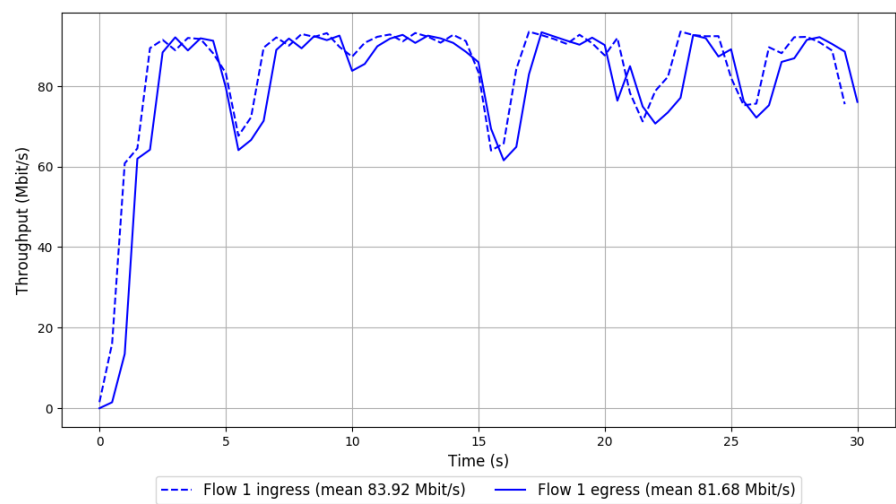
Average throughput: 81.68 Mbit/s

95th percentile per-packet one-way delay: 12.859 ms

Loss rate: 2.68%



Run 5: Report of PCC-Vivace — Data Link

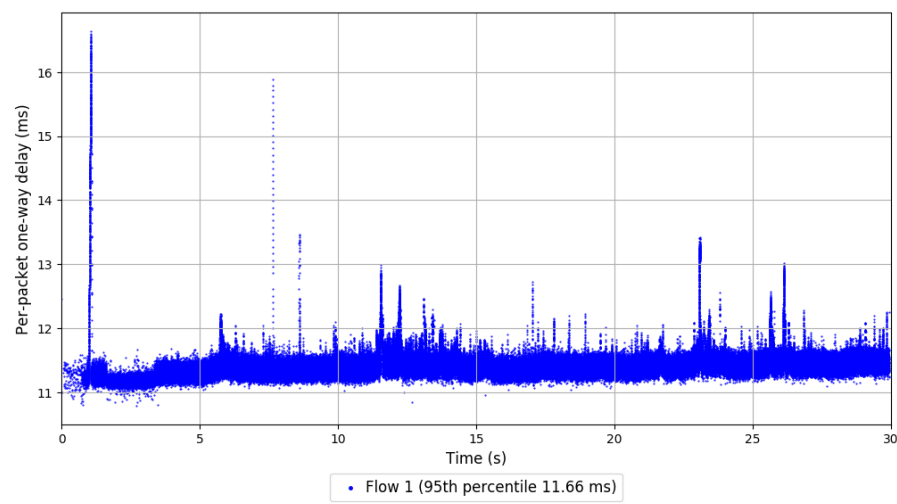
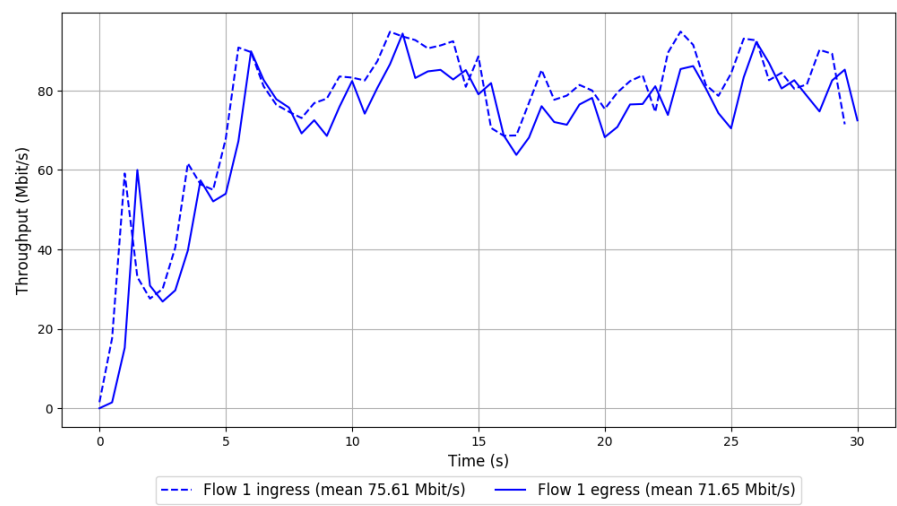


Run 6: Statistics of PCC-Vivace

Start at: 2018-05-21 23:10:59  
End at: 2018-05-21 23:11:29  
Local clock offset: -2.167 ms  
Remote clock offset: -2.213 ms

# Below is generated by plot.py at 2018-05-22 00:54:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 71.65 Mbit/s  
95th percentile per-packet one-way delay: 11.662 ms  
Loss rate: 5.24%  
-- Flow 1:  
Average throughput: 71.65 Mbit/s  
95th percentile per-packet one-way delay: 11.662 ms  
Loss rate: 5.24%

Run 6: Report of PCC-Vivace — Data Link

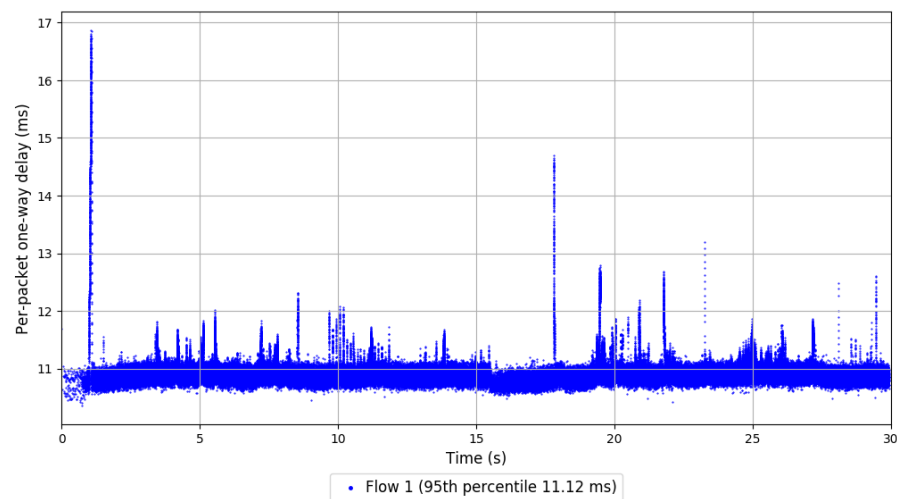
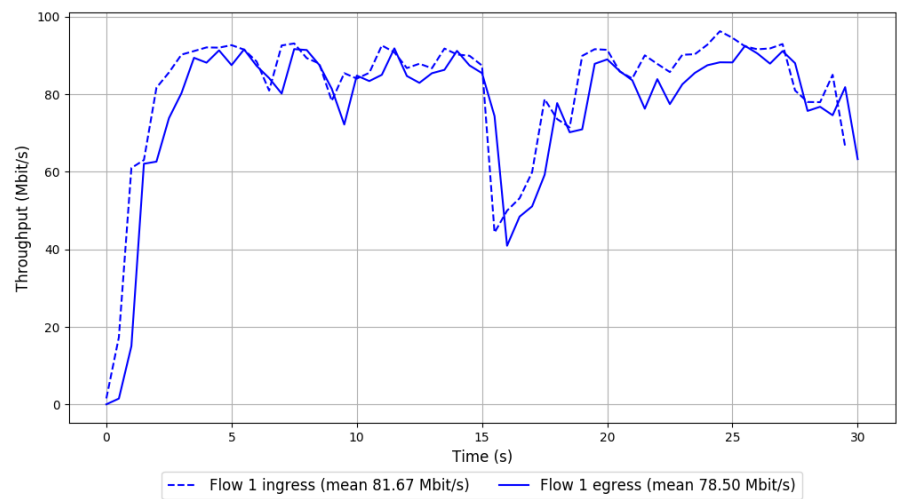


Run 7: Statistics of PCC-Vivace

Start at: 2018-05-21 23:28:49  
End at: 2018-05-21 23:29:19  
Local clock offset: -3.08 ms  
Remote clock offset: -4.883 ms

# Below is generated by plot.py at 2018-05-22 00:55:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 78.50 Mbit/s  
95th percentile per-packet one-way delay: 11.122 ms  
Loss rate: 3.88%  
-- Flow 1:  
Average throughput: 78.50 Mbit/s  
95th percentile per-packet one-way delay: 11.122 ms  
Loss rate: 3.88%

Run 7: Report of PCC-Vivace — Data Link

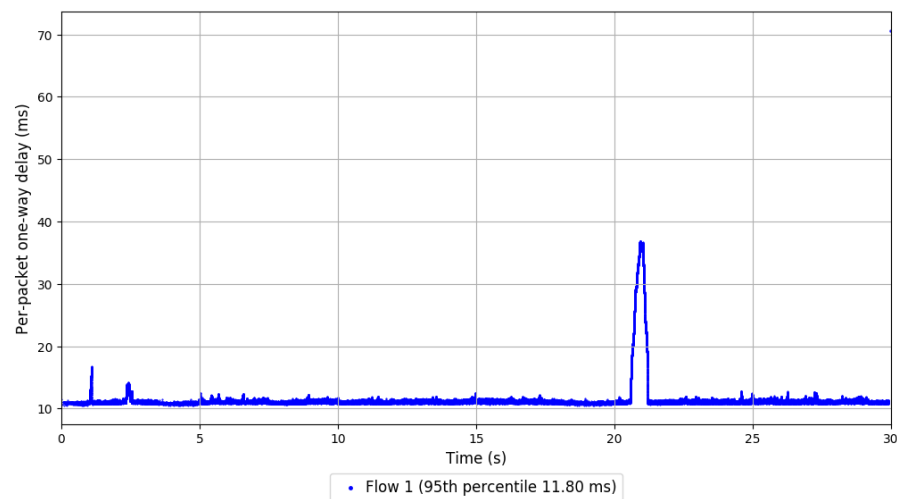
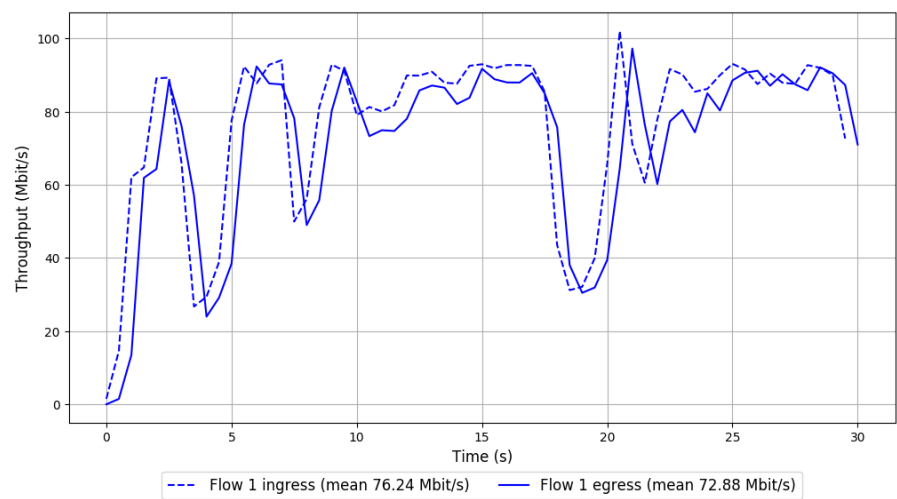


Run 8: Statistics of PCC-Vivace

Start at: 2018-05-21 23:46:39  
End at: 2018-05-21 23:47:09  
Local clock offset: -5.595 ms  
Remote clock offset: -7.354 ms

# Below is generated by plot.py at 2018-05-22 00:55:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 72.88 Mbit/s  
95th percentile per-packet one-way delay: 11.802 ms  
Loss rate: 4.21%  
-- Flow 1:  
Average throughput: 72.88 Mbit/s  
95th percentile per-packet one-way delay: 11.802 ms  
Loss rate: 4.21%

Run 8: Report of PCC-Vivace — Data Link



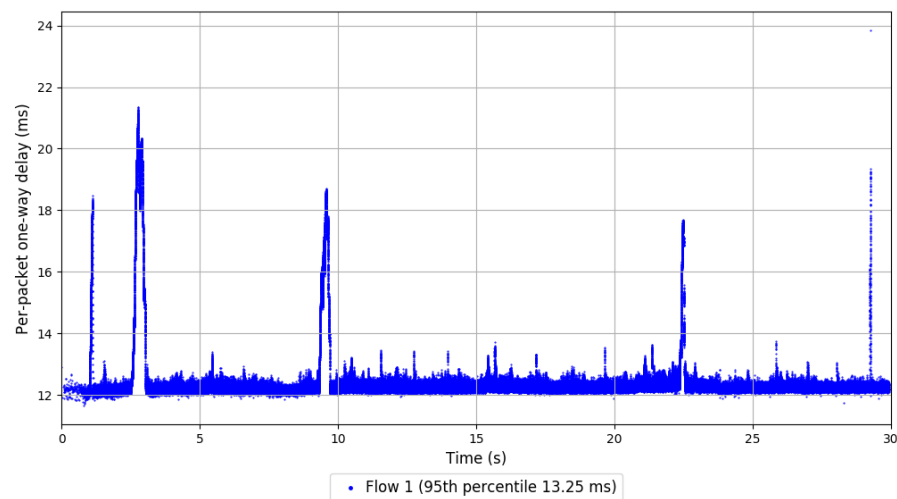
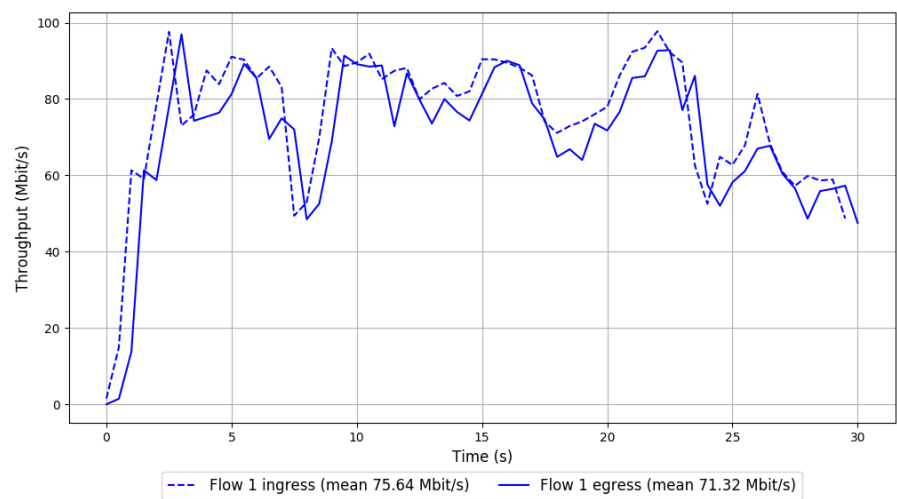
Run 9: Statistics of PCC-Vivace

Start at: 2018-05-22 00:04:22  
End at: 2018-05-22 00:04:52  
Local clock offset: -2.745 ms  
Remote clock offset: -7.936 ms

# Below is generated by plot.py at 2018-05-22 00:55:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 71.32 Mbit/s  
95th percentile per-packet one-way delay: 13.249 ms  
Loss rate: 5.71%  
-- Flow 1:  
Average throughput: 71.32 Mbit/s  
95th percentile per-packet one-way delay: 13.249 ms  
Loss rate: 5.71%



Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

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

End at: 2018-05-22 00:22:43

Local clock offset: -1.057 ms

Remote clock offset: -0.768 ms

# Below is generated by plot.py at 2018-05-22 00:55:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 60.14 Mbit/s

95th percentile per-packet one-way delay: 13.247 ms

Loss rate: 4.36%

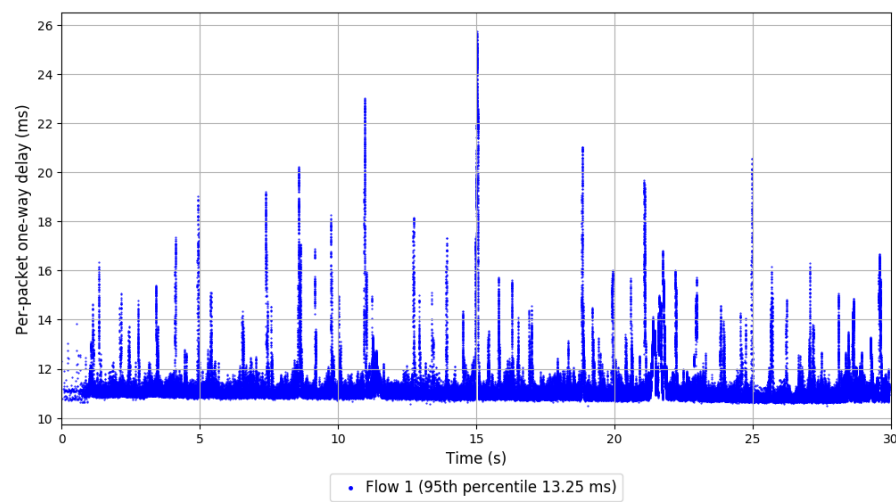
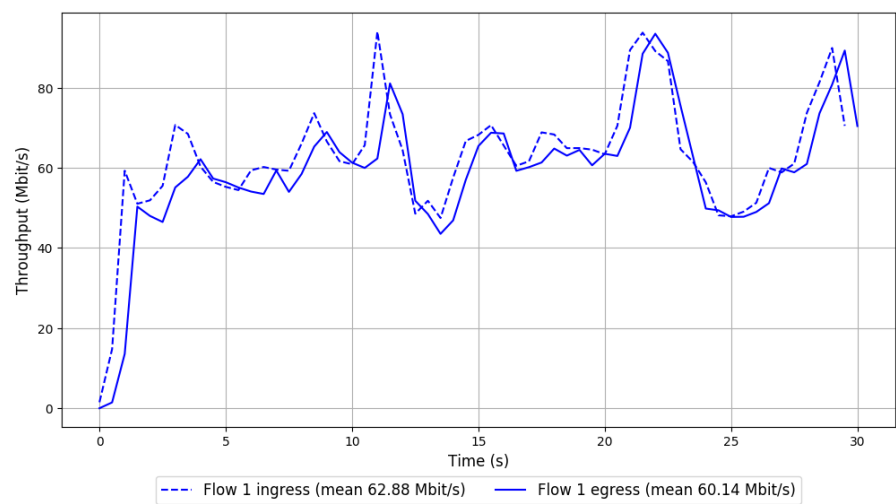
-- Flow 1:

Average throughput: 60.14 Mbit/s

95th percentile per-packet one-way delay: 13.247 ms

Loss rate: 4.36%

Run 10: Report of PCC-Vivace — Data Link

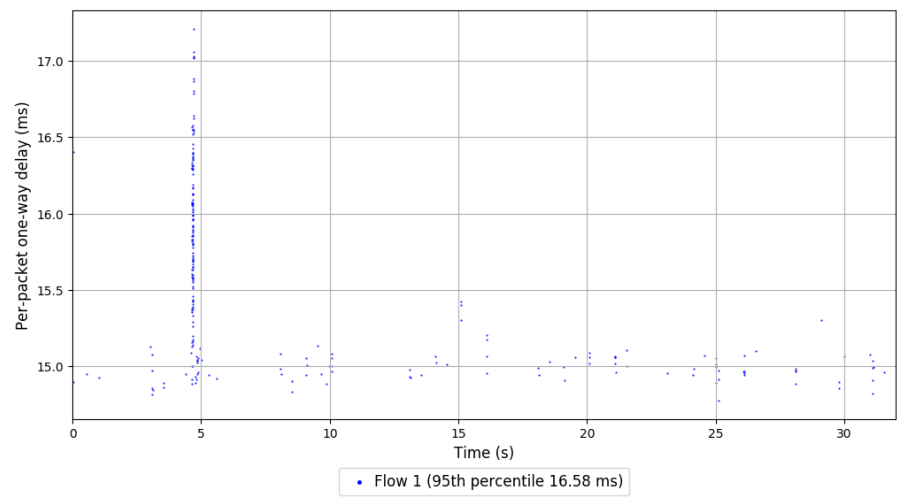
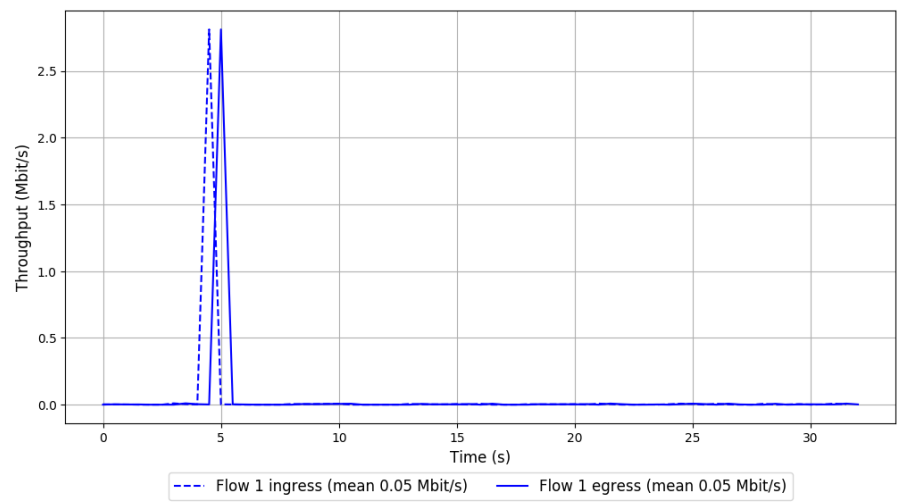


```
Run 1: Statistics of WebRTC media

Start at: 2018-05-21 21:49:49
End at: 2018-05-21 21:50:19
Local clock offset: -4.963 ms
Remote clock offset: -1.145 ms

# Below is generated by plot.py at 2018-05-22 00:55:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 16.576 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 16.576 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

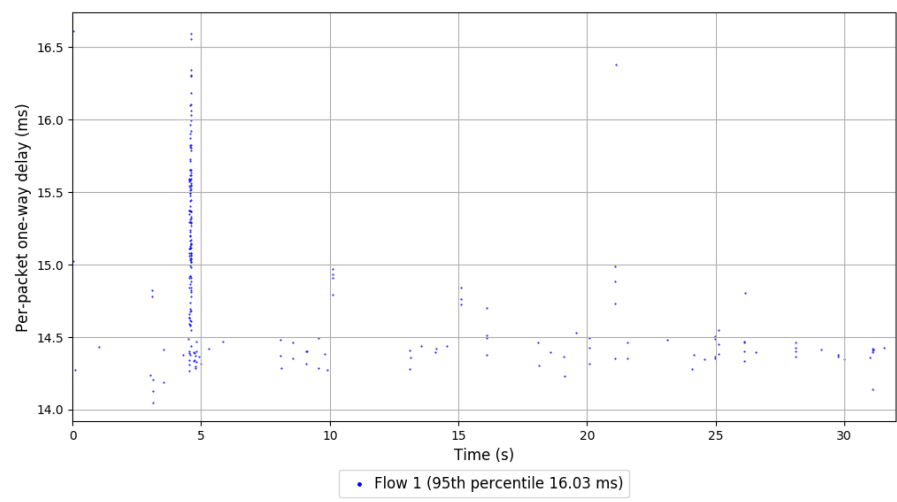
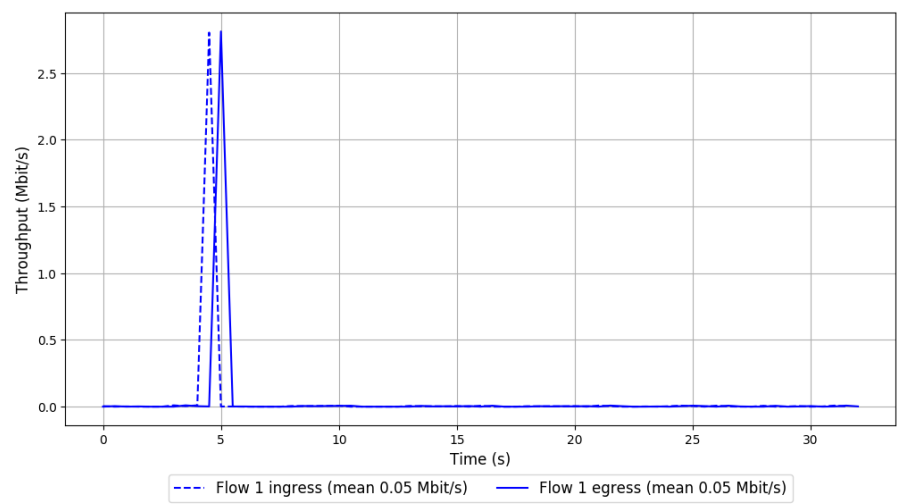


Run 2: Statistics of WebRTC media

Start at: 2018-05-21 22:07:45  
End at: 2018-05-21 22:08:15  
Local clock offset: -2.13 ms  
Remote clock offset: -1.605 ms

# Below is generated by plot.py at 2018-05-22 00:55:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 16.028 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 16.028 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



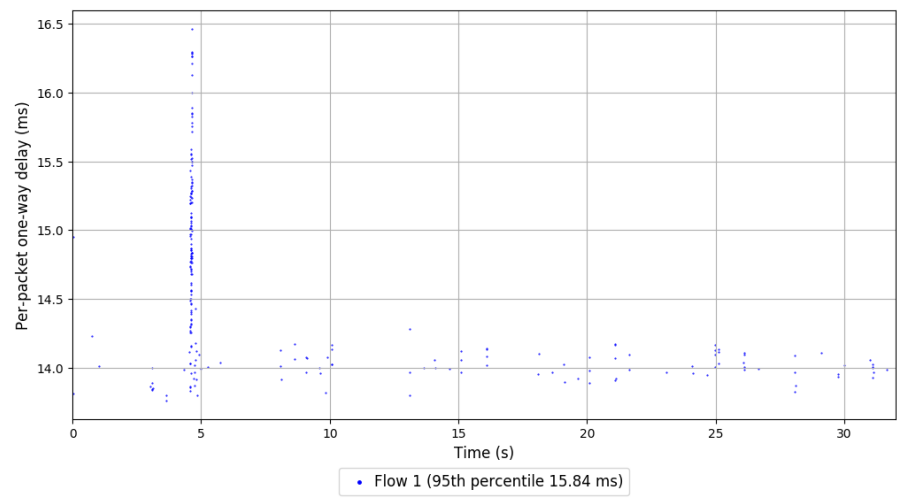
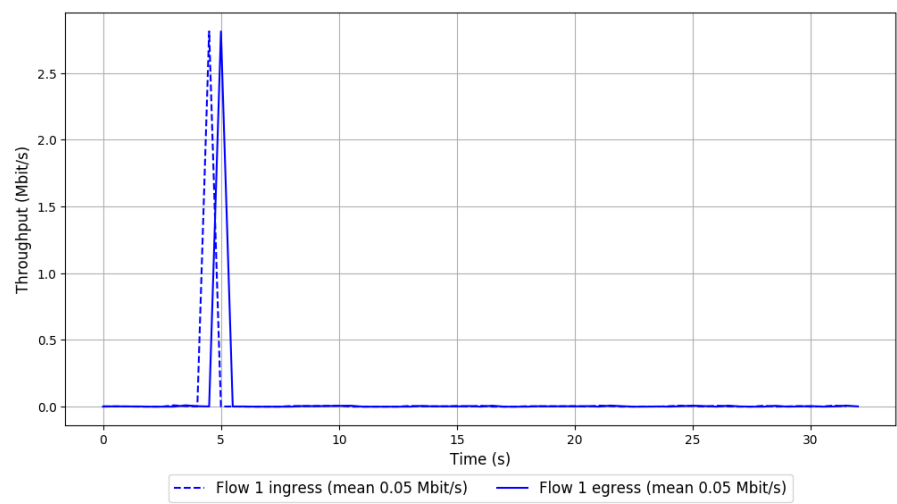
Run 3: Statistics of WebRTC media

Start at: 2018-05-21 22:25:30  
End at: 2018-05-21 22:26:00  
Local clock offset: -1.17 ms  
Remote clock offset: -1.317 ms

# Below is generated by plot.py at 2018-05-22 00:55:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 15.842 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 15.842 ms  
Loss rate: 0.00%



Run 3: Report of WebRTC media — Data Link

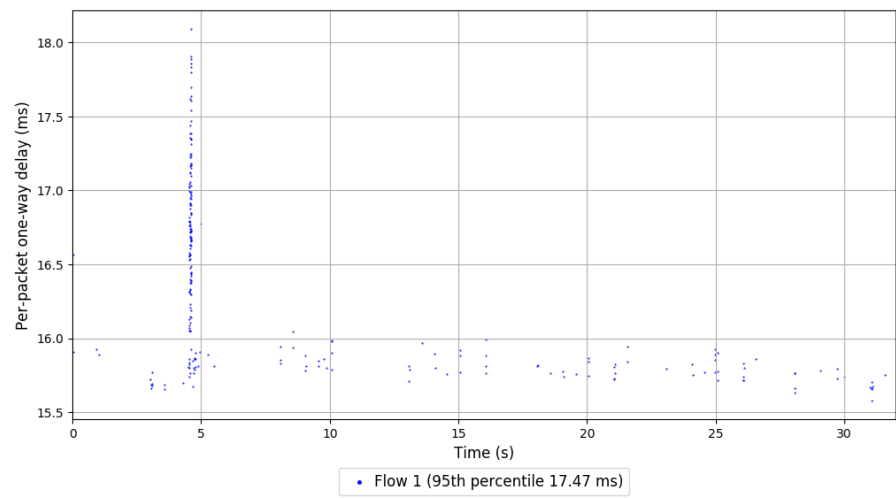
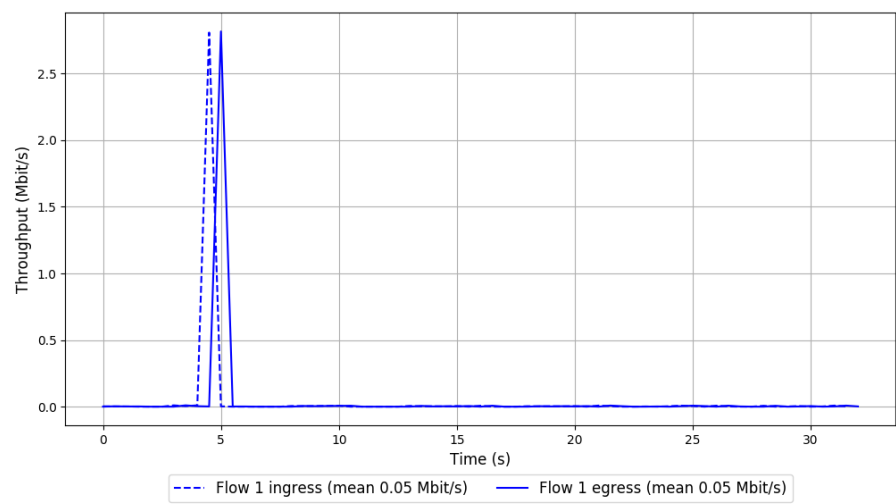


Run 4: Statistics of WebRTC media

Start at: 2018-05-21 22:43:18  
End at: 2018-05-21 22:43:48  
Local clock offset: -6.175 ms  
Remote clock offset: -2.539 ms

# Below is generated by plot.py at 2018-05-22 00:55:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 17.469 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 17.469 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-05-21 23:01:04

End at: 2018-05-21 23:01:34

Local clock offset: -1.041 ms

Remote clock offset: 2.511 ms

# Below is generated by plot.py at 2018-05-22 00:55:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 14.620 ms

Loss rate: 0.00%

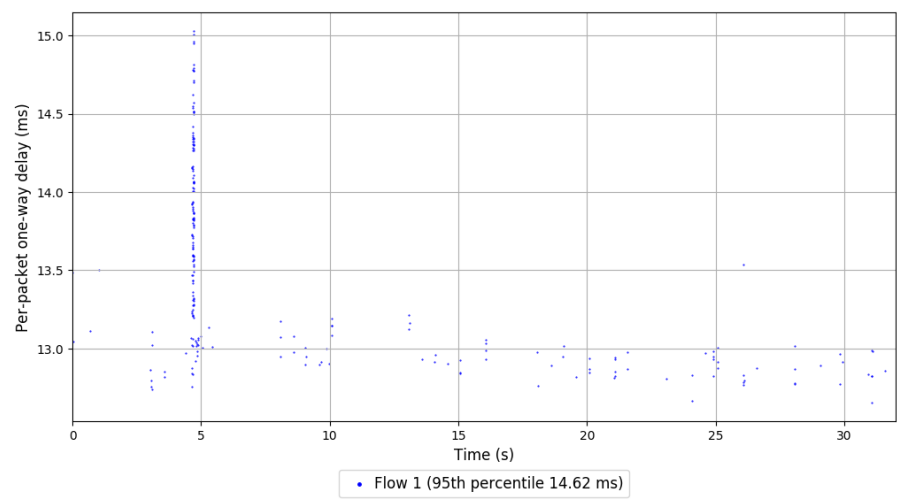
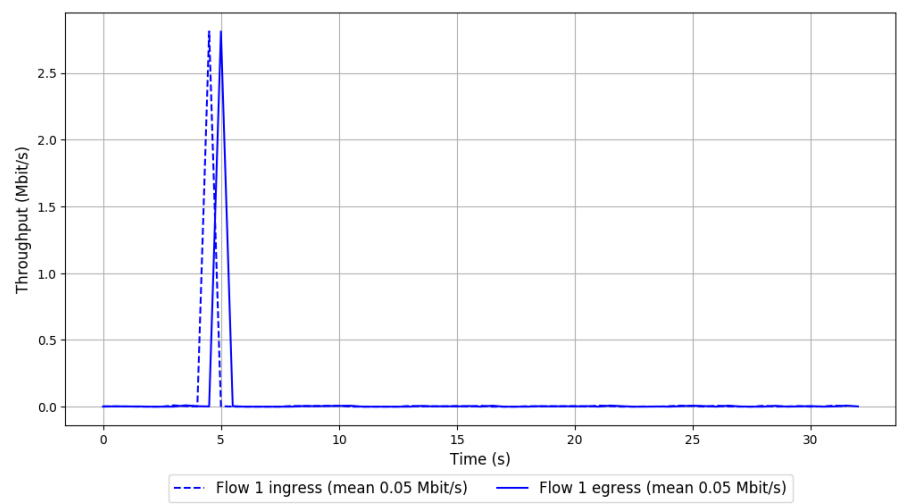
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 14.620 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

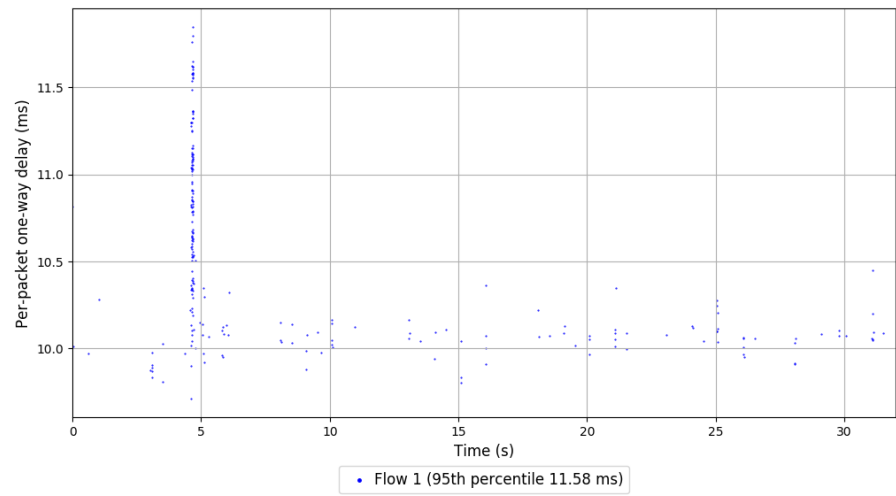
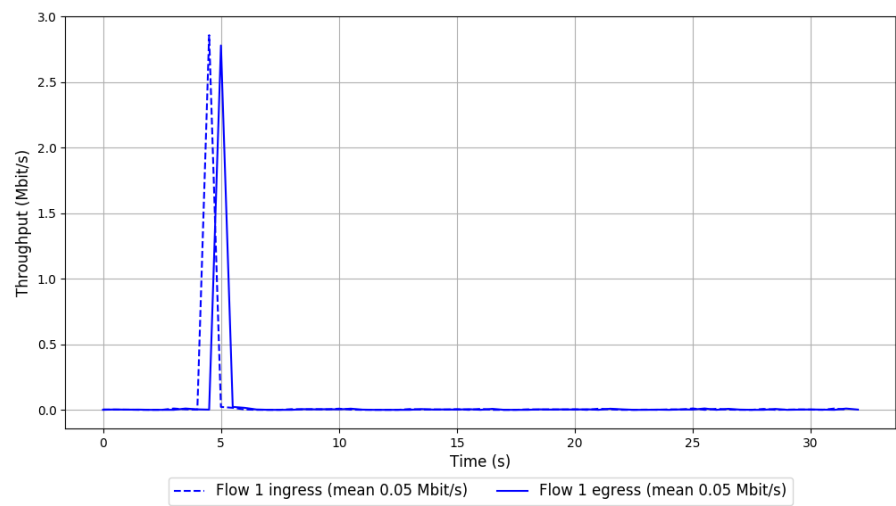


Run 6: Statistics of WebRTC media

Start at: 2018-05-21 23:18:48  
End at: 2018-05-21 23:19:18  
Local clock offset: -1.908 ms  
Remote clock offset: -3.997 ms

# Below is generated by plot.py at 2018-05-22 00:55:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 11.576 ms  
Loss rate: 2.58%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 11.576 ms  
Loss rate: 2.58%

Run 6: Report of WebRTC media — Data Link



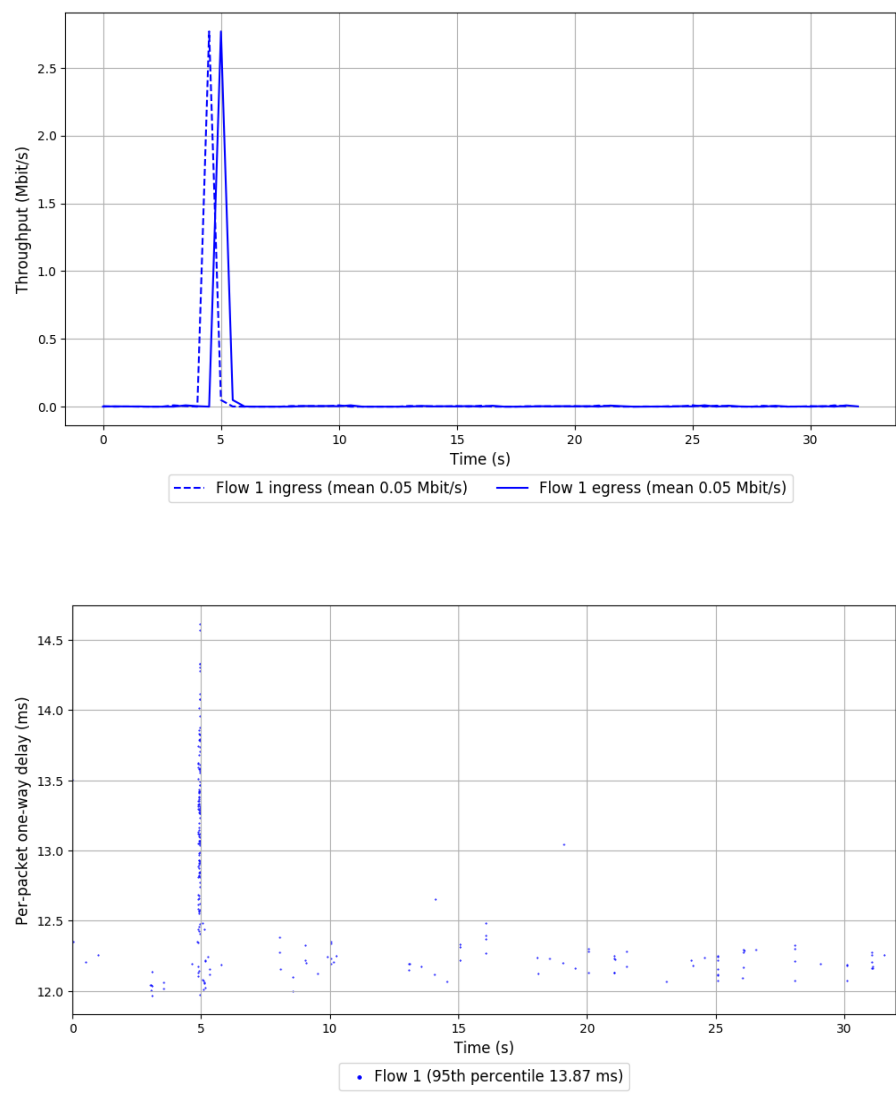
Run 7: Statistics of WebRTC media

Start at: 2018-05-21 23:36:39  
End at: 2018-05-21 23:37:09  
Local clock offset: -6.375 ms  
Remote clock offset: -6.664 ms

# Below is generated by plot.py at 2018-05-22 00:55:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 13.874 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 13.874 ms  
Loss rate: 0.00%



Run 7: Report of WebRTC media — Data Link

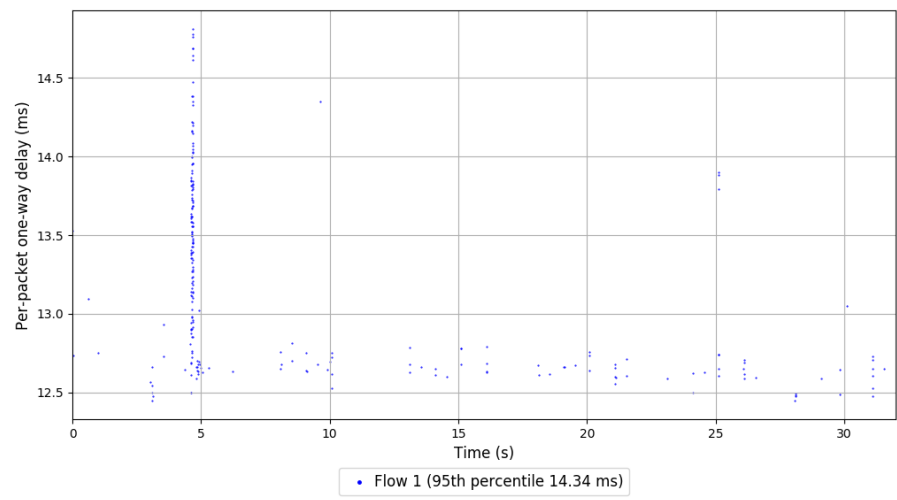
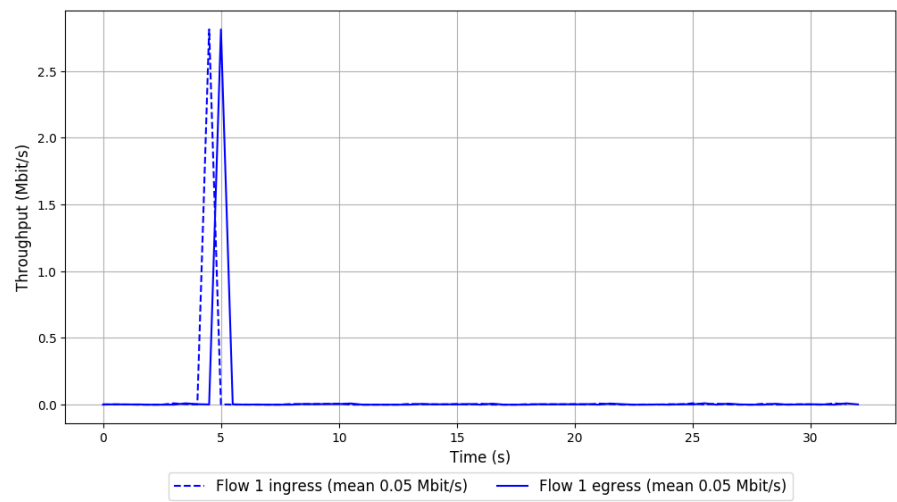


Run 8: Statistics of WebRTC media

Start at: 2018-05-21 23:54:28  
End at: 2018-05-21 23:54:58  
Local clock offset: -7.449 ms  
Remote clock offset: -7.354 ms

# Below is generated by plot.py at 2018-05-22 00:55:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 14.344 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 14.344 ms  
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

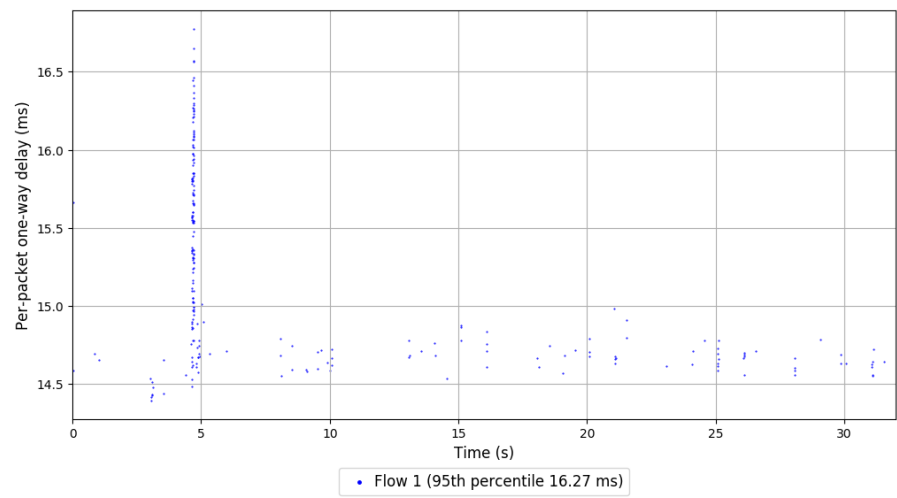
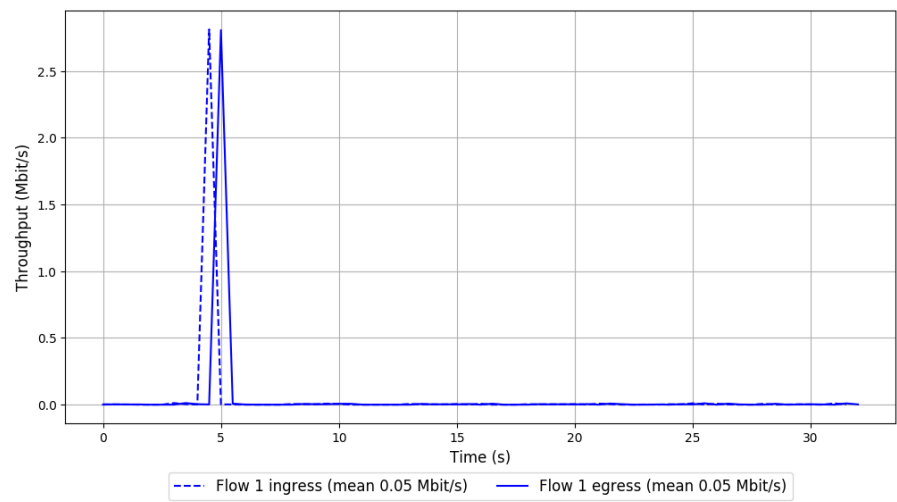


Run 9: Statistics of WebRTC media

Start at: 2018-05-22 00:12:16  
End at: 2018-05-22 00:12:46  
Local clock offset: -4.968 ms  
Remote clock offset: -9.099 ms

# Below is generated by plot.py at 2018-05-22 00:55:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 16.270 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 16.270 ms  
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-22 00:30:07

End at: 2018-05-22 00:30:37

Local clock offset: -1.512 ms

Remote clock offset: 2.058 ms

# Below is generated by plot.py at 2018-05-22 00:55:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 14.249 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 14.249 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

