

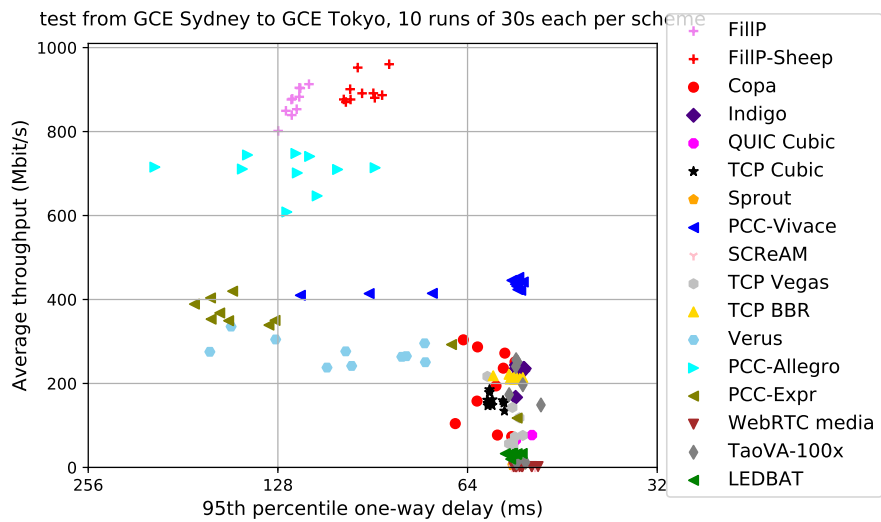
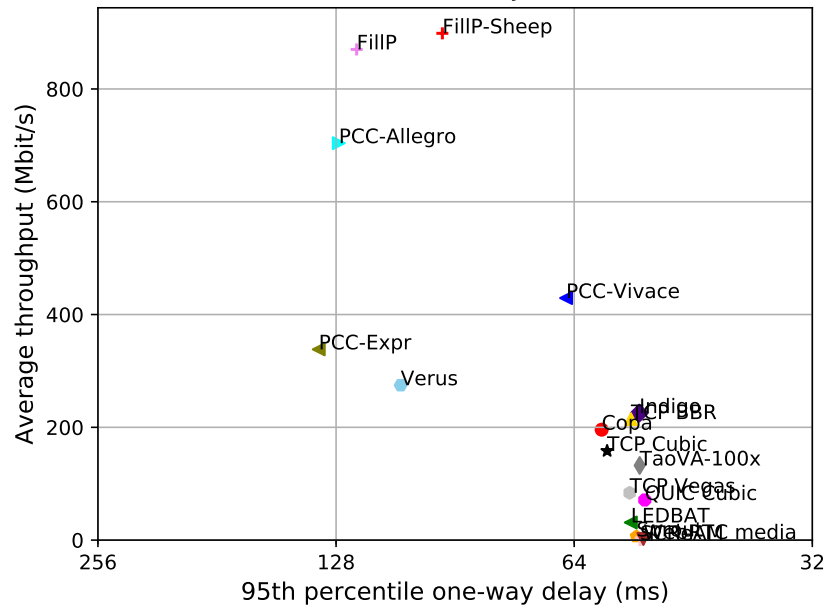
## Pantheon Report

Generated at 2018-08-03 10:23:03 (UTC).  
Data path: GCE Sydney Ethernet (*local*) → GCE Tokyo Ethernet (*remote*).  
Repeated the test of 17 congestion control schemes 10 times.  
Each test lasted for 30 seconds running 1 flow.  
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).  
NTP offsets were measured against `time.google.com` and have been applied  
to correct the timestamps in logs.

Git summary:

```
branch: master @ 640164b5b17c7c6561fff57729b3b5935d8596ce
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
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
  M src/ScreamClient
  M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from GCE Sydney to GCE Tokyo, 10 runs of 30s each per scheme  
(mean of all runs by 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	214.59	54.26	0.00
Copa	10	195.80	59.08	0.00
TCP Cubic	10	158.12	58.15	0.02
FillP	10	870.12	120.55	2.43
FillP-Sheep	10	898.66	93.94	0.14
Indigo	10	225.27	52.96	0.00
LEDBAT	10	31.26	54.28	0.00
PCC-Allegro	10	703.92	126.98	1.32
PCC-Expr	10	338.23	134.63	3.23
QUIC Cubic	2	71.16	52.11	0.01
SCReAM	10	0.21	52.85	0.00
Sprout	10	6.52	53.40	0.00
TaoVA-100x	10	132.35	52.89	0.00
TCP Vegas	10	83.82	54.46	0.00
Verus	10	274.65	106.06	0.32
PCC-Vivace	10	429.24	65.53	0.03
WebRTC media	10	1.94	52.33	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-08-03 04:50:21

End at: 2018-08-03 04:50:51

Local clock offset: -0.013 ms

Remote clock offset: -0.3 ms

# Below is generated by plot.py at 2018-08-03 08:37:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 210.71 Mbit/s

95th percentile per-packet one-way delay: 53.872 ms

Loss rate: 0.00%

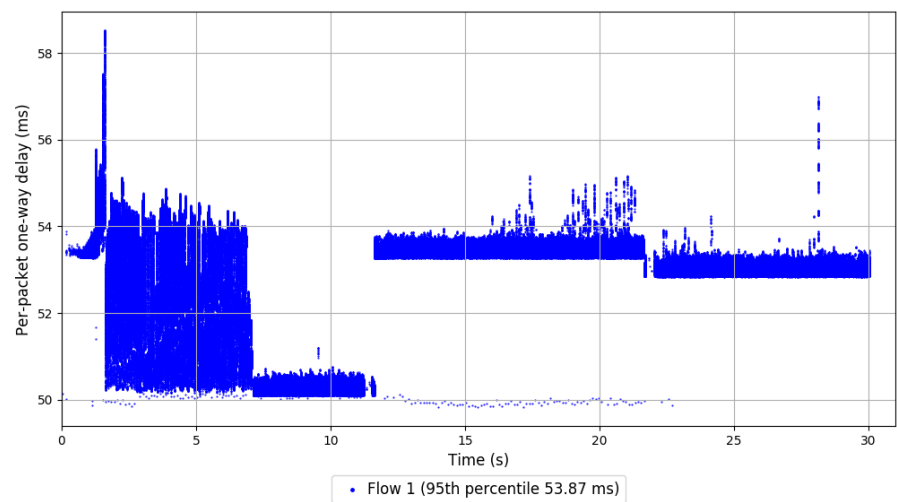
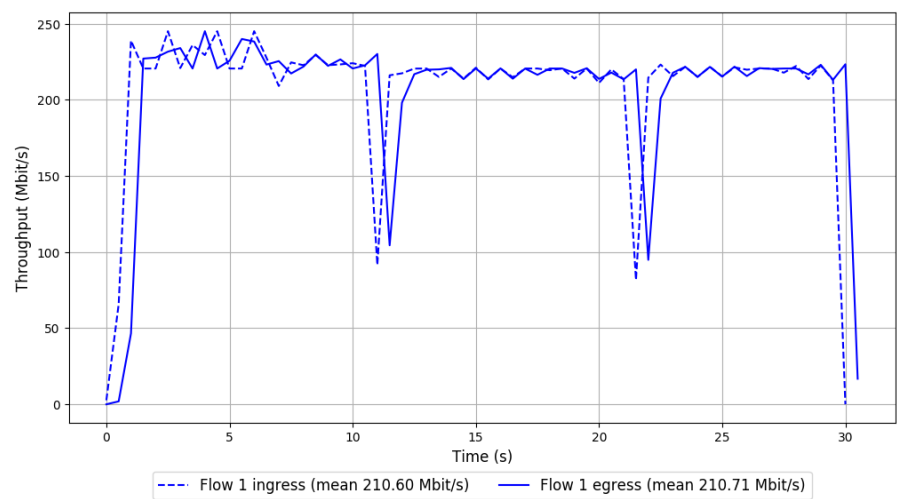
-- Flow 1:

Average throughput: 210.71 Mbit/s

95th percentile per-packet one-way delay: 53.872 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-08-03 05:12:50

End at: 2018-08-03 05:13:20

Local clock offset: 0.034 ms

Remote clock offset: -0.274 ms

# Below is generated by plot.py at 2018-08-03 08:37:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 218.27 Mbit/s

95th percentile per-packet one-way delay: 58.268 ms

Loss rate: 0.00%

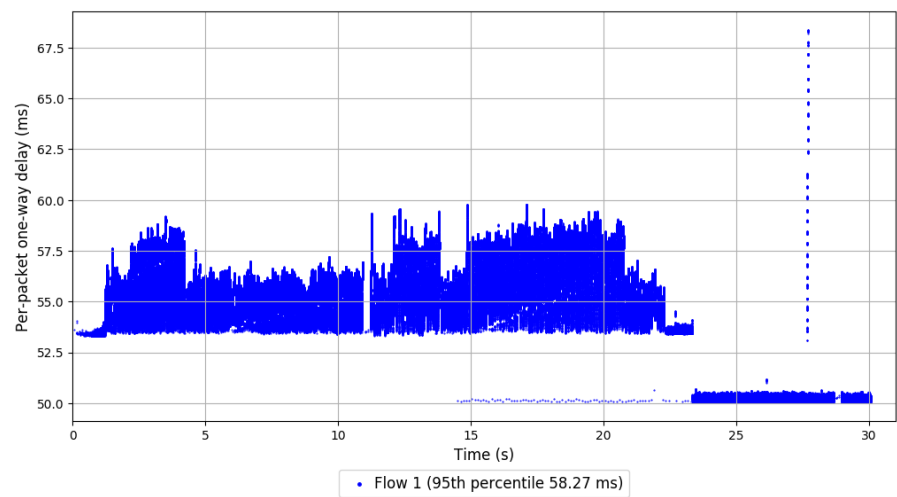
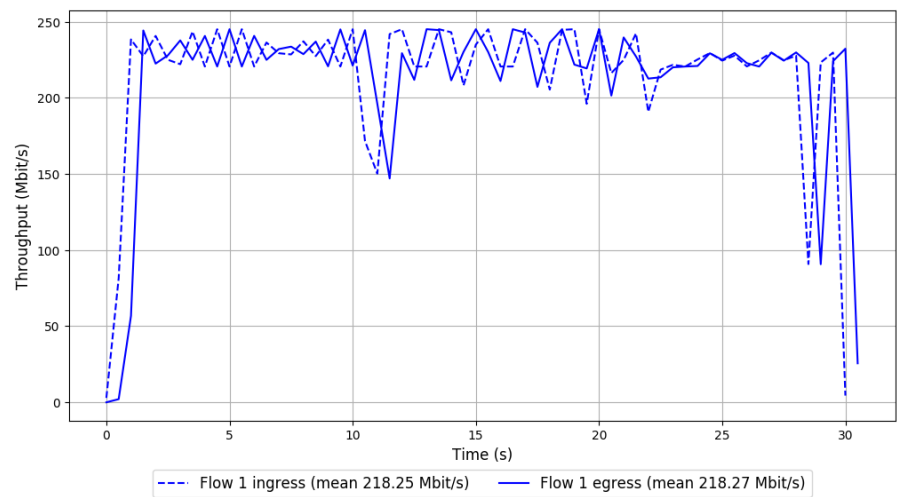
-- Flow 1:

Average throughput: 218.27 Mbit/s

95th percentile per-packet one-way delay: 58.268 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-08-03 05:35:29

End at: 2018-08-03 05:35:59

Local clock offset: 0.056 ms

Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2018-08-03 08:37:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 213.37 Mbit/s

95th percentile per-packet one-way delay: 54.147 ms

Loss rate: 0.00%

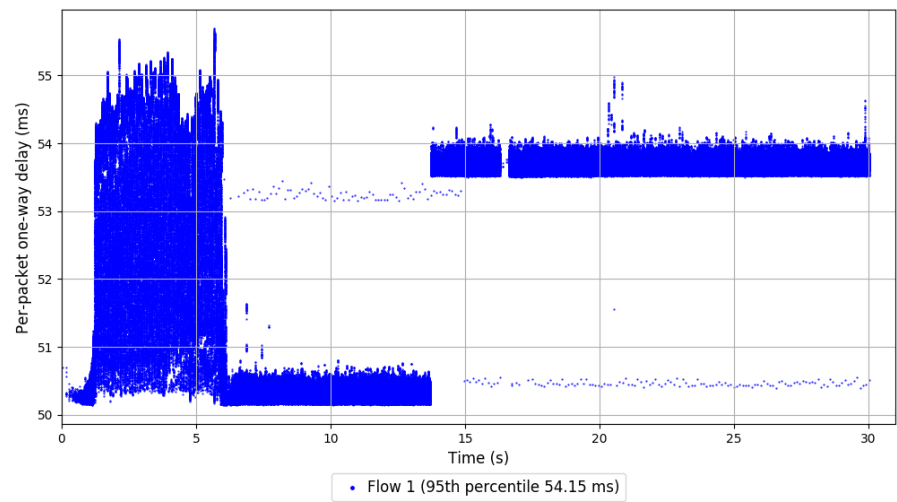
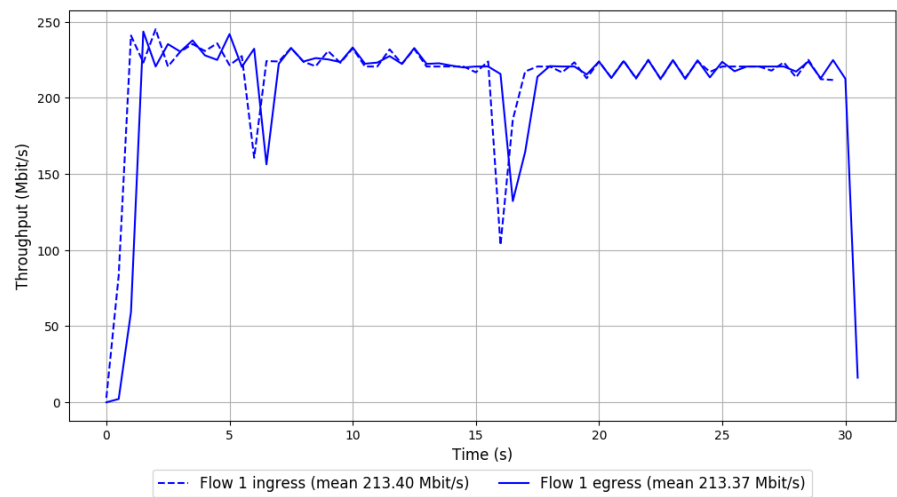
-- Flow 1:

Average throughput: 213.37 Mbit/s

95th percentile per-packet one-way delay: 54.147 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link

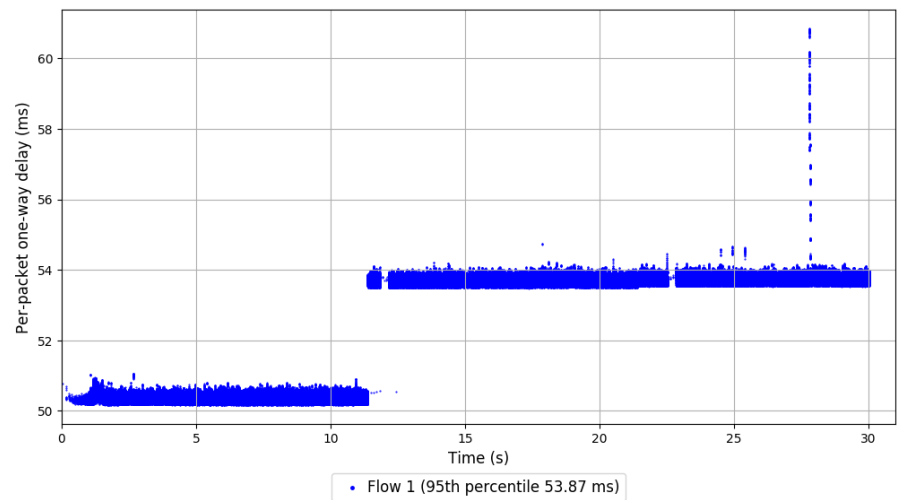
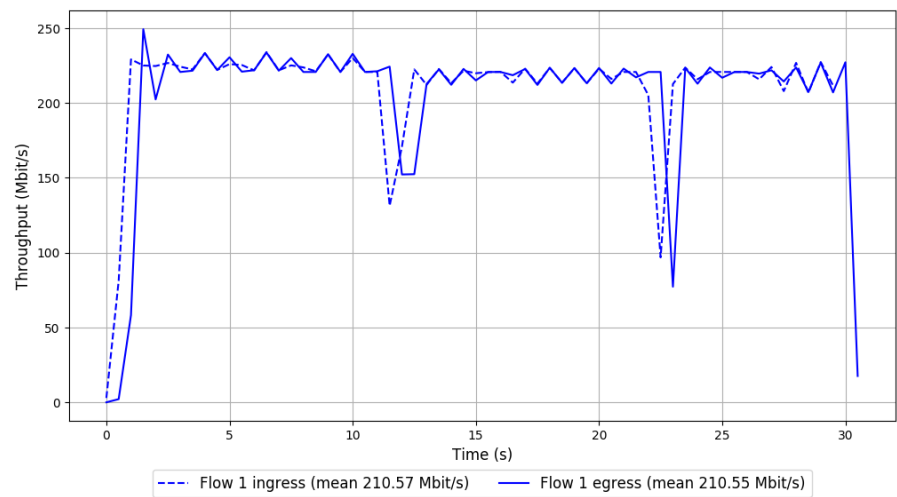


Run 4: Statistics of TCP BBR

Start at: 2018-08-03 05:57:42  
End at: 2018-08-03 05:58:12  
Local clock offset: -0.061 ms  
Remote clock offset: -0.224 ms

# Below is generated by plot.py at 2018-08-03 08:37:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 210.55 Mbit/s  
95th percentile per-packet one-way delay: 53.868 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 210.55 Mbit/s  
95th percentile per-packet one-way delay: 53.868 ms  
Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-08-03 06:19:39

End at: 2018-08-03 06:20:09

Local clock offset: 0.175 ms

Remote clock offset: -1.509 ms

# Below is generated by plot.py at 2018-08-03 08:37:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 213.81 Mbit/s

95th percentile per-packet one-way delay: 52.295 ms

Loss rate: 0.00%

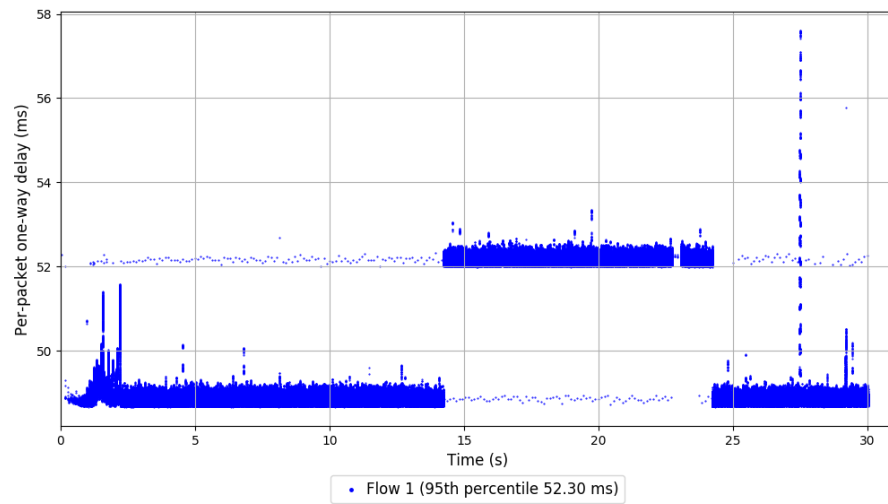
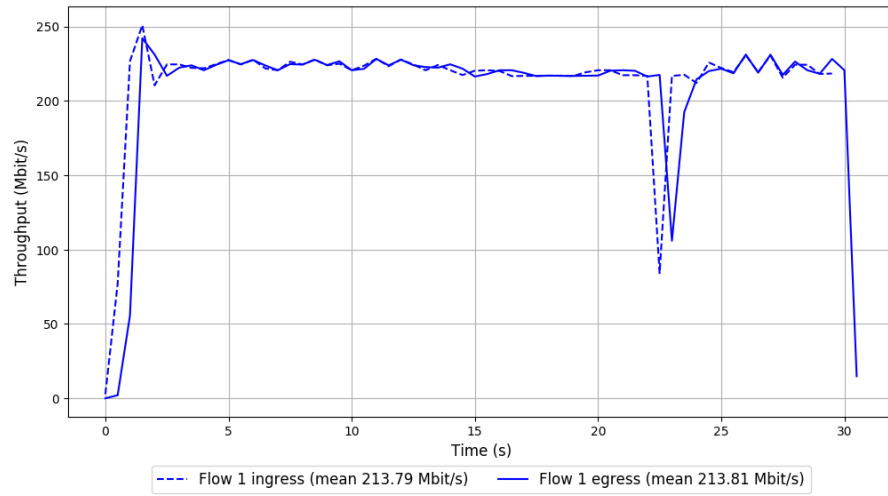
-- Flow 1:

Average throughput: 213.81 Mbit/s

95th percentile per-packet one-way delay: 52.295 ms

Loss rate: 0.00%

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

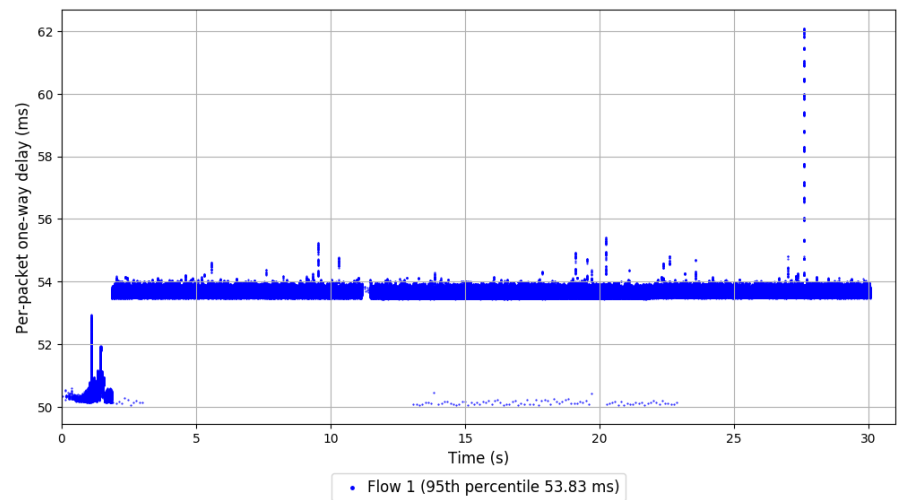
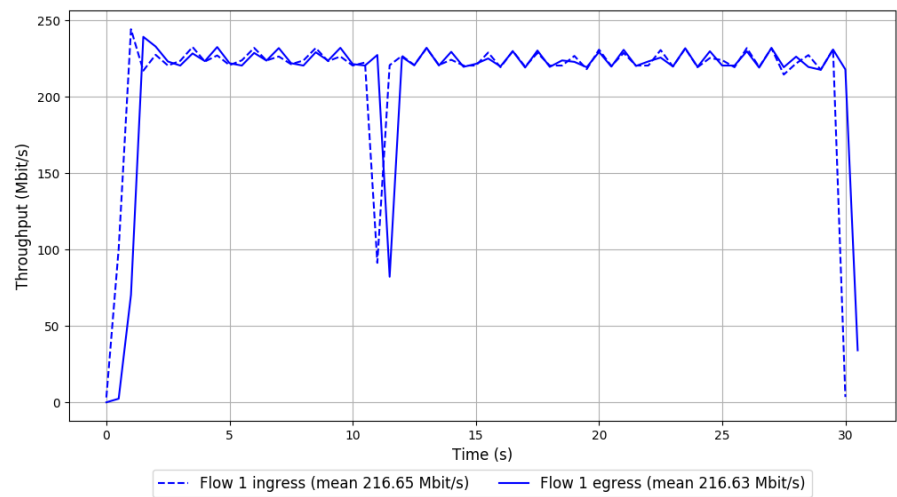


Run 6: Statistics of TCP BBR

Start at: 2018-08-03 06:42:01  
End at: 2018-08-03 06:42:31  
Local clock offset: 0.088 ms  
Remote clock offset: -0.154 ms

# Below is generated by plot.py at 2018-08-03 08:37:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 216.63 Mbit/s  
95th percentile per-packet one-way delay: 53.826 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 216.63 Mbit/s  
95th percentile per-packet one-way delay: 53.826 ms  
Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-08-03 07:03:52

End at: 2018-08-03 07:04:22

Local clock offset: 0.072 ms

Remote clock offset: -0.245 ms

# Below is generated by plot.py at 2018-08-03 08:37:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 218.56 Mbit/s

95th percentile per-packet one-way delay: 53.665 ms

Loss rate: 0.00%

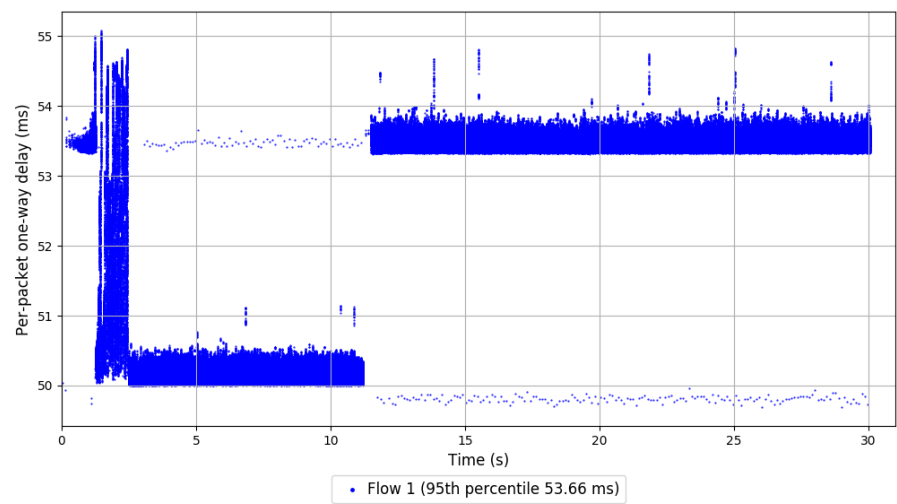
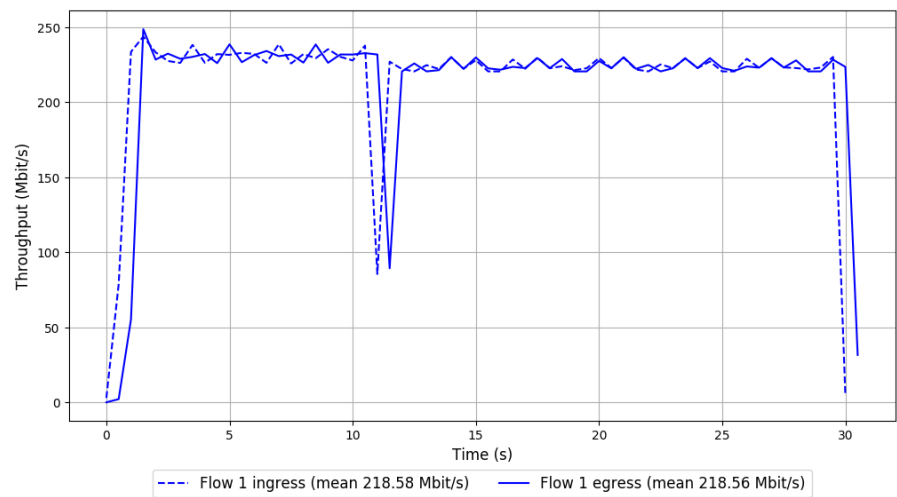
-- Flow 1:

Average throughput: 218.56 Mbit/s

95th percentile per-packet one-way delay: 53.665 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-08-03 07:26:04

End at: 2018-08-03 07:26:34

Local clock offset: -0.013 ms

Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2018-08-03 08:37:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 221.85 Mbit/s

95th percentile per-packet one-way delay: 54.980 ms

Loss rate: 0.01%

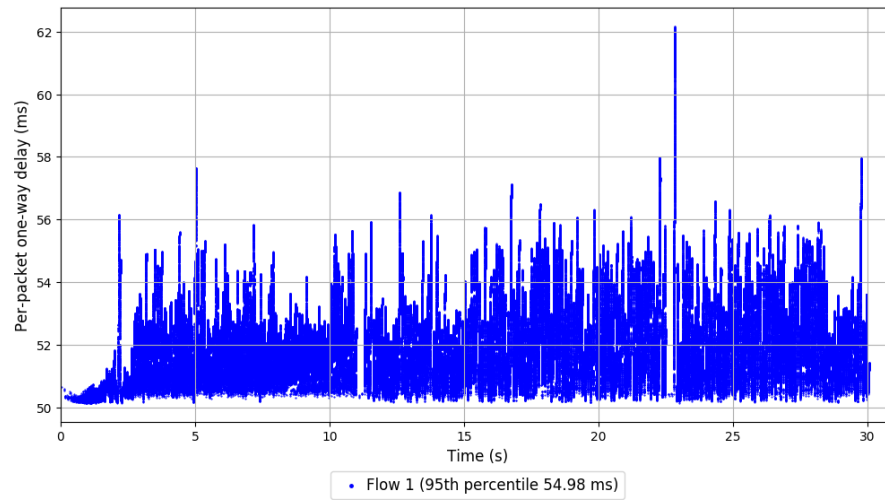
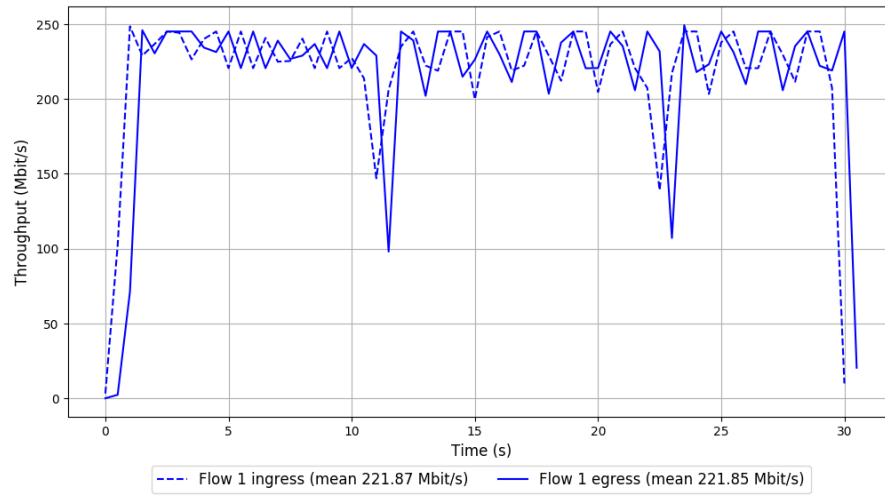
-- Flow 1:

Average throughput: 221.85 Mbit/s

95th percentile per-packet one-way delay: 54.980 ms

Loss rate: 0.01%

# Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-08-03 07:48:29

End at: 2018-08-03 07:48:59

Local clock offset: 0.246 ms

Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2018-08-03 08:40:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 211.62 Mbit/s

95th percentile per-packet one-way delay: 52.882 ms

Loss rate: 0.00%

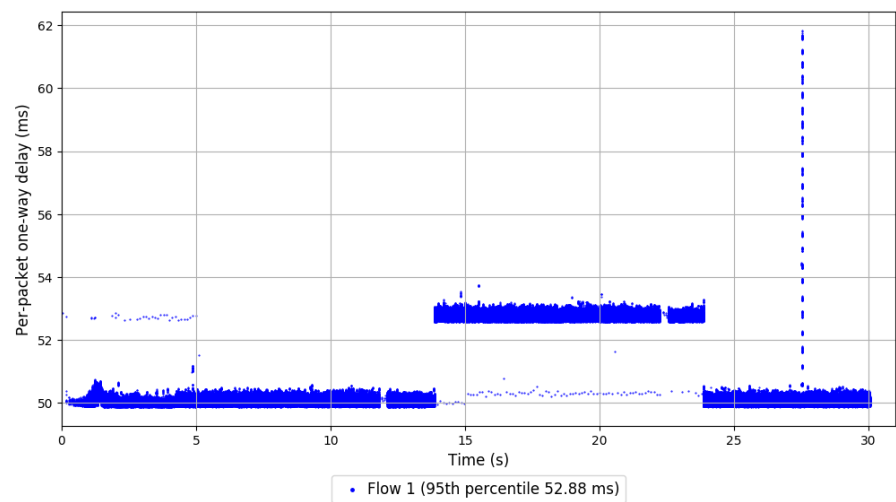
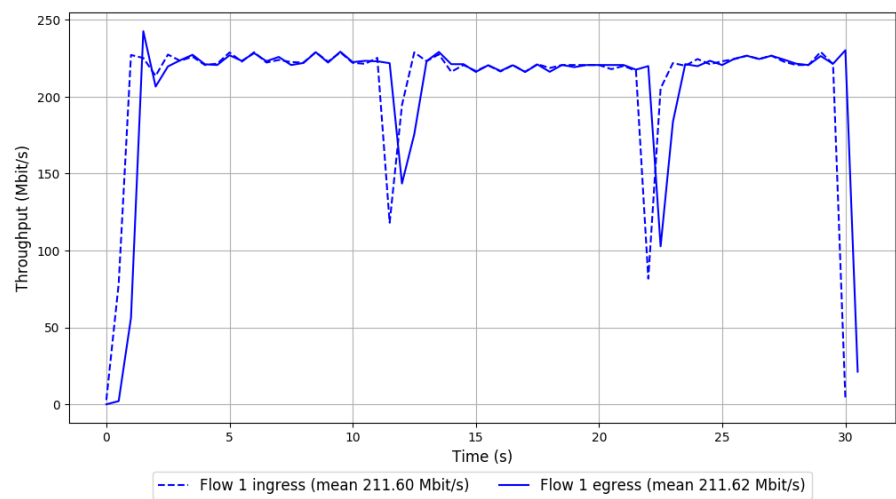
-- Flow 1:

Average throughput: 211.62 Mbit/s

95th percentile per-packet one-way delay: 52.882 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link

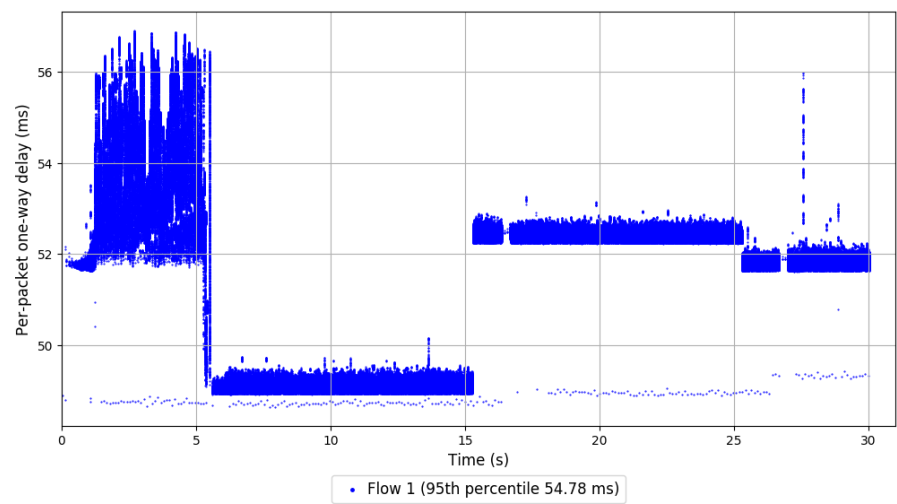
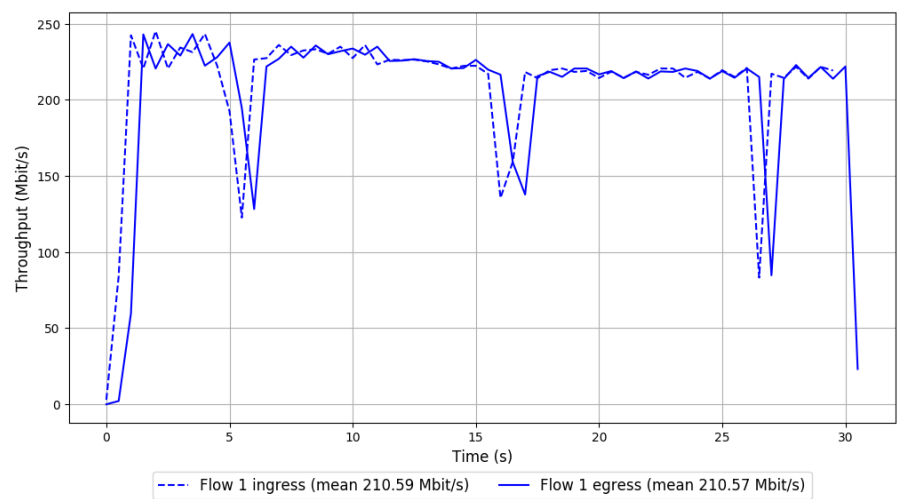


Run 10: Statistics of TCP BBR

Start at: 2018-08-03 08:10:48  
End at: 2018-08-03 08:11:18  
Local clock offset: -0.276 ms  
Remote clock offset: -1.569 ms

# Below is generated by plot.py at 2018-08-03 08:40:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 210.57 Mbit/s  
95th percentile per-packet one-way delay: 54.780 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 210.57 Mbit/s  
95th percentile per-packet one-way delay: 54.780 ms  
Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link

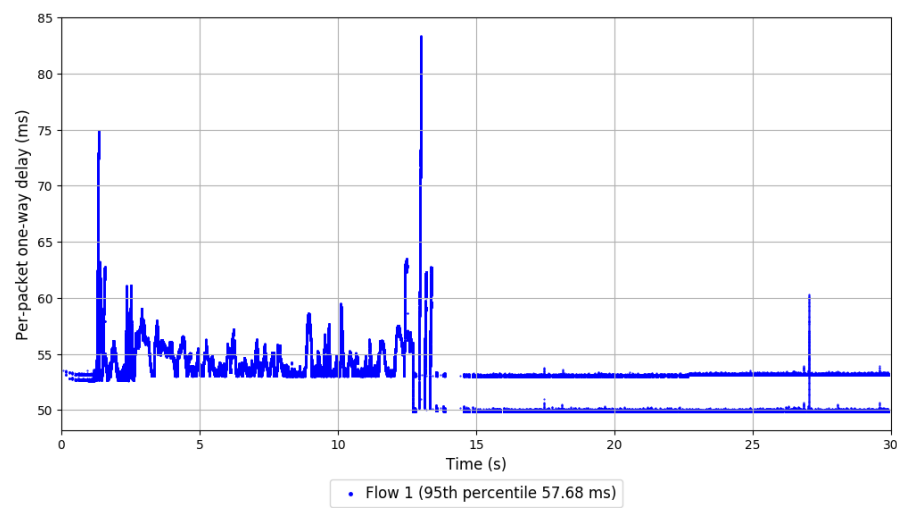
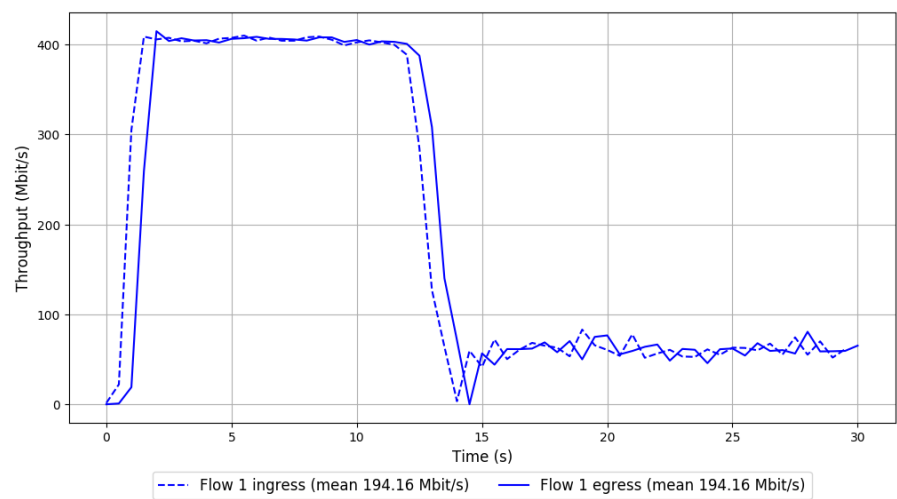


Run 1: Statistics of Copa

Start at: 2018-08-03 04:49:00  
End at: 2018-08-03 04:49:30  
Local clock offset: 0.019 ms  
Remote clock offset: -0.464 ms

# Below is generated by plot.py at 2018-08-03 08:42:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 194.16 Mbit/s  
95th percentile per-packet one-way delay: 57.676 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 194.16 Mbit/s  
95th percentile per-packet one-way delay: 57.676 ms  
Loss rate: 0.00%

Run 1: Report of Copa — Data Link

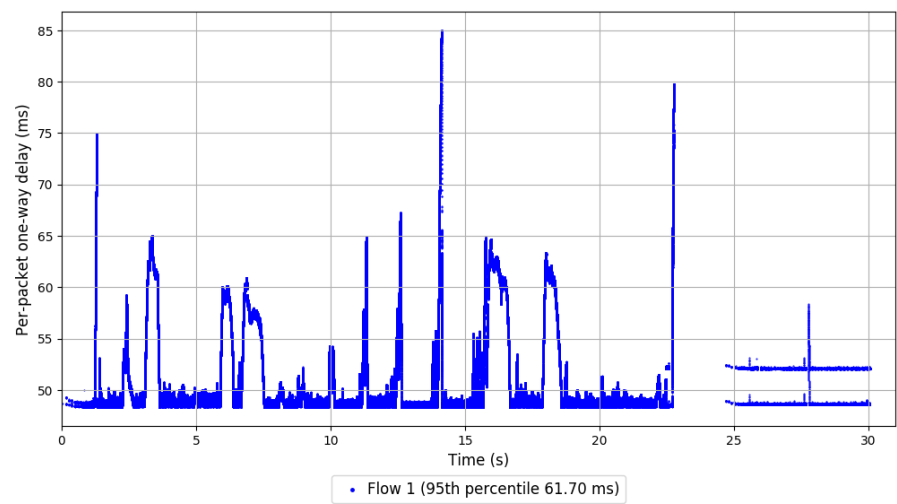
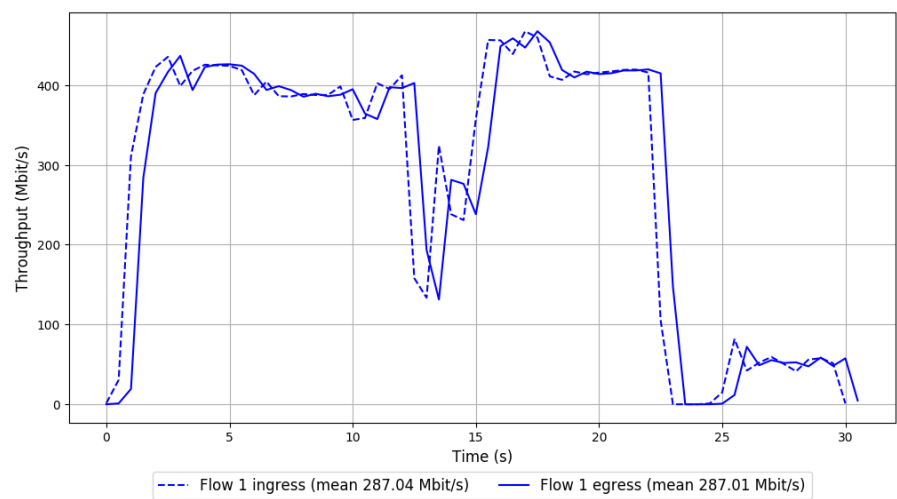


Run 2: Statistics of Copa

Start at: 2018-08-03 05:11:21  
End at: 2018-08-03 05:11:51  
Local clock offset: 0.015 ms  
Remote clock offset: -1.657 ms

# Below is generated by plot.py at 2018-08-03 08:45:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 287.01 Mbit/s  
95th percentile per-packet one-way delay: 61.705 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 287.01 Mbit/s  
95th percentile per-packet one-way delay: 61.705 ms  
Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-08-03 05:33:59

End at: 2018-08-03 05:34:29

Local clock offset: 0.095 ms

Remote clock offset: 0.068 ms

# Below is generated by plot.py at 2018-08-03 08:45:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 303.92 Mbit/s

95th percentile per-packet one-way delay: 64.986 ms

Loss rate: 0.00%

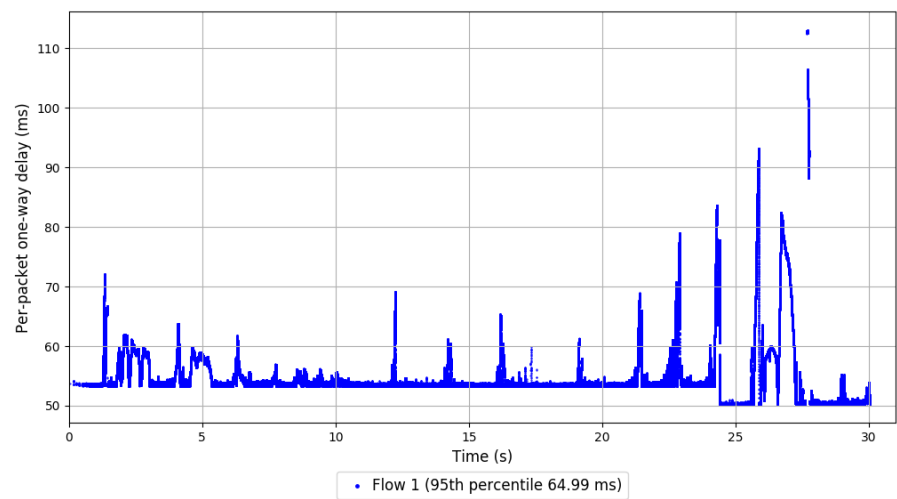
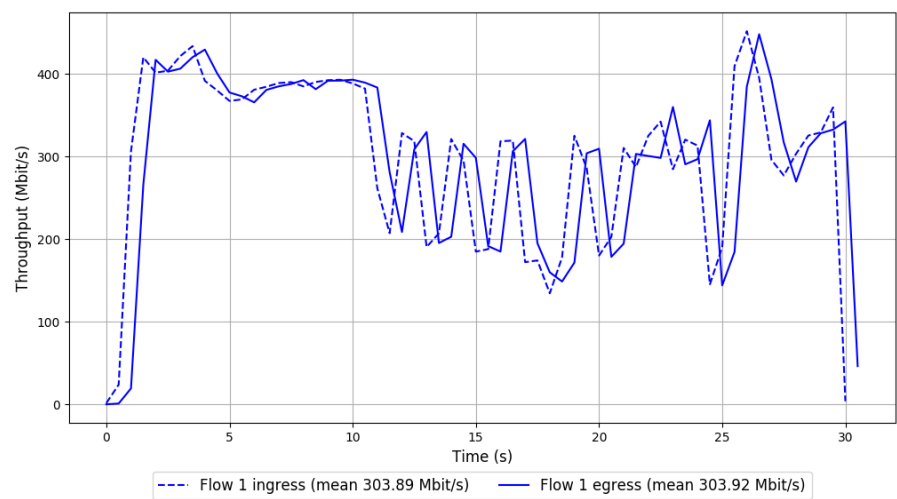
-- Flow 1:

Average throughput: 303.92 Mbit/s

95th percentile per-packet one-way delay: 64.986 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link

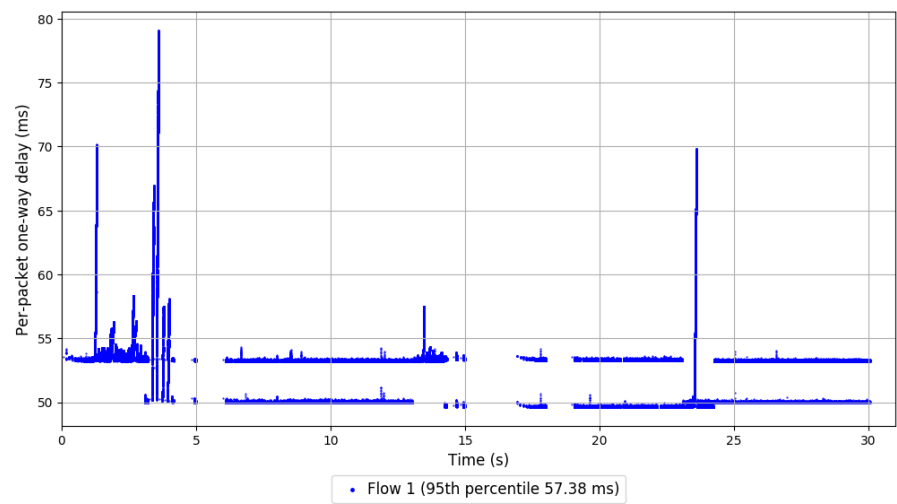
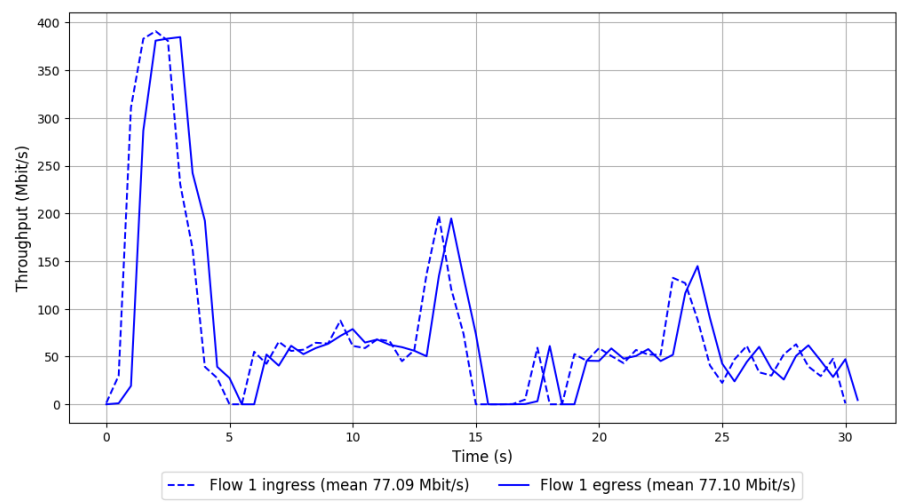


Run 4: Statistics of Copa

Start at: 2018-08-03 05:56:30  
End at: 2018-08-03 05:57:00  
Local clock offset: -0.048 ms  
Remote clock offset: -0.406 ms

# Below is generated by plot.py at 2018-08-03 08:45:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 77.10 Mbit/s  
95th percentile per-packet one-way delay: 57.376 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 77.10 Mbit/s  
95th percentile per-packet one-way delay: 57.376 ms  
Loss rate: 0.00%

Run 4: Report of Copa — Data Link

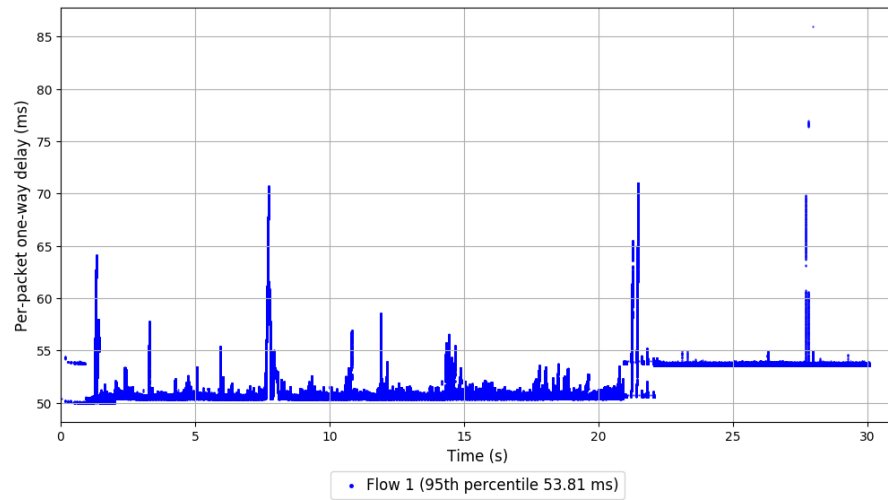
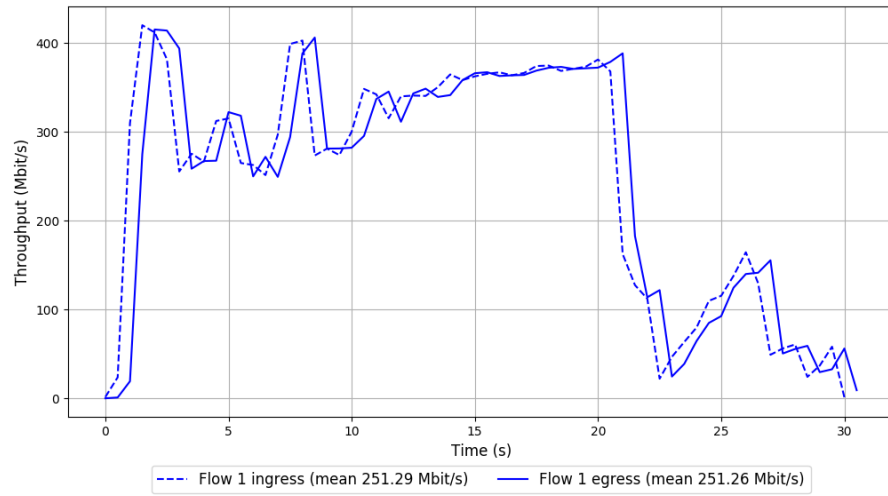


Run 5: Statistics of Copa

Start at: 2018-08-03 06:18:12  
End at: 2018-08-03 06:18:42  
Local clock offset: -0.132 ms  
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2018-08-03 08:45:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 251.26 Mbit/s  
95th percentile per-packet one-way delay: 53.807 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 251.26 Mbit/s  
95th percentile per-packet one-way delay: 53.807 ms  
Loss rate: 0.00%

### Run 5: Report of Copa — Data Link

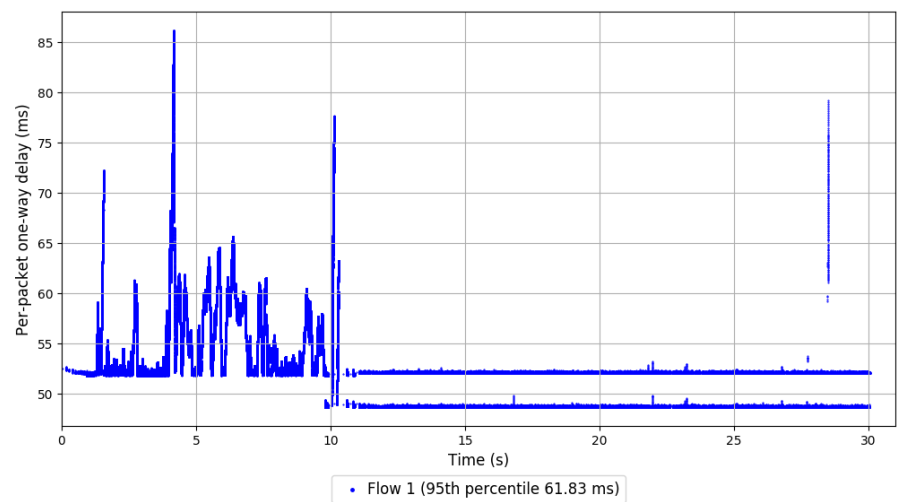
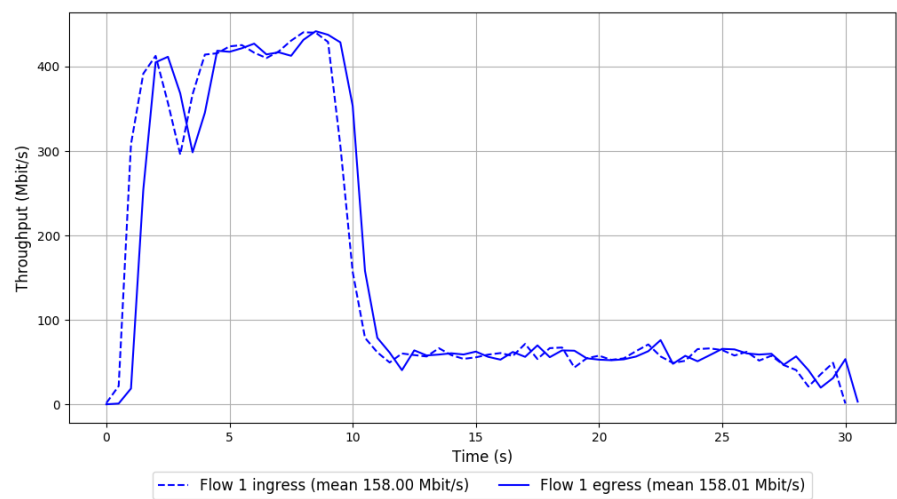


Run 6: Statistics of Copa

Start at: 2018-08-03 06:40:43  
End at: 2018-08-03 06:41:13  
Local clock offset: 0.153 ms  
Remote clock offset: -1.531 ms

# Below is generated by plot.py at 2018-08-03 08:45:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 158.01 Mbit/s  
95th percentile per-packet one-way delay: 61.825 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 158.01 Mbit/s  
95th percentile per-packet one-way delay: 61.825 ms  
Loss rate: 0.00%

Run 6: Report of Copa — Data Link

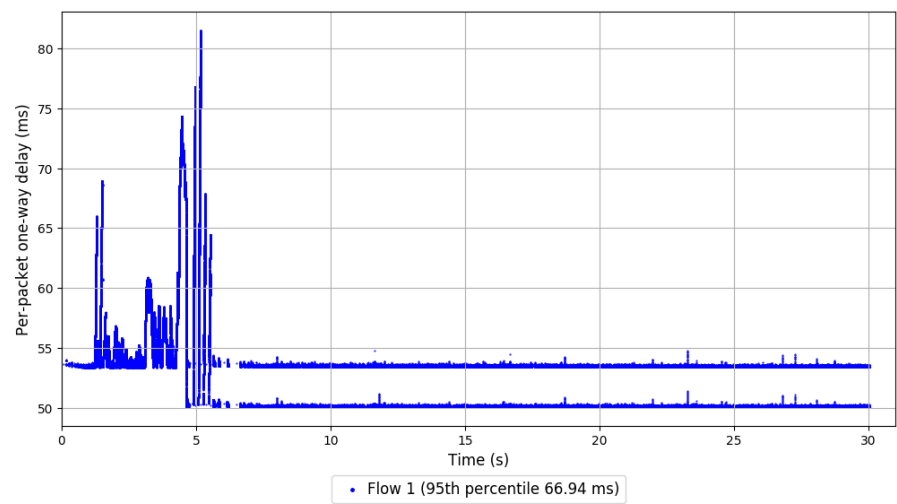
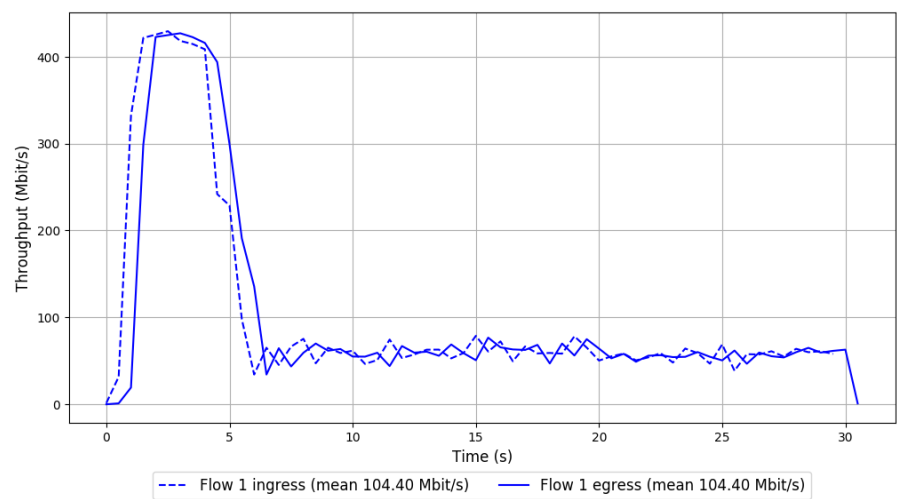


Run 7: Statistics of Copa

Start at: 2018-08-03 07:02:39  
End at: 2018-08-03 07:03:09  
Local clock offset: -0.008 ms  
Remote clock offset: -0.187 ms

# Below is generated by plot.py at 2018-08-03 08:45:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 104.40 Mbit/s  
95th percentile per-packet one-way delay: 66.935 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 104.40 Mbit/s  
95th percentile per-packet one-way delay: 66.935 ms  
Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-08-03 07:24:40

End at: 2018-08-03 07:25:10

Local clock offset: -0.019 ms

Remote clock offset: -1.46 ms

# Below is generated by plot.py at 2018-08-03 08:47:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 236.39 Mbit/s

95th percentile per-packet one-way delay: 56.158 ms

Loss rate: 0.00%

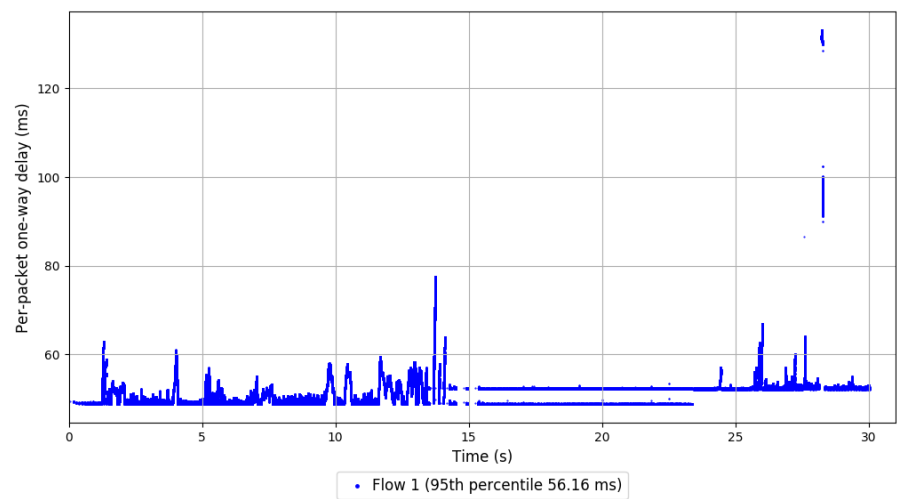
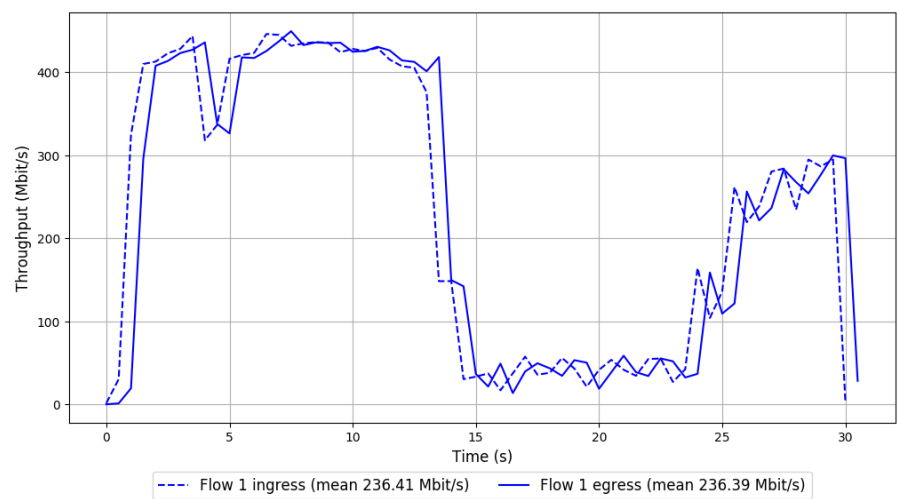
-- Flow 1:

Average throughput: 236.39 Mbit/s

95th percentile per-packet one-way delay: 56.158 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-08-03 07:47:19

End at: 2018-08-03 07:47:49

Local clock offset: -0.064 ms

Remote clock offset: 1.168 ms

# Below is generated by plot.py at 2018-08-03 08:47:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 73.49 Mbit/s

95th percentile per-packet one-way delay: 54.469 ms

Loss rate: 0.00%

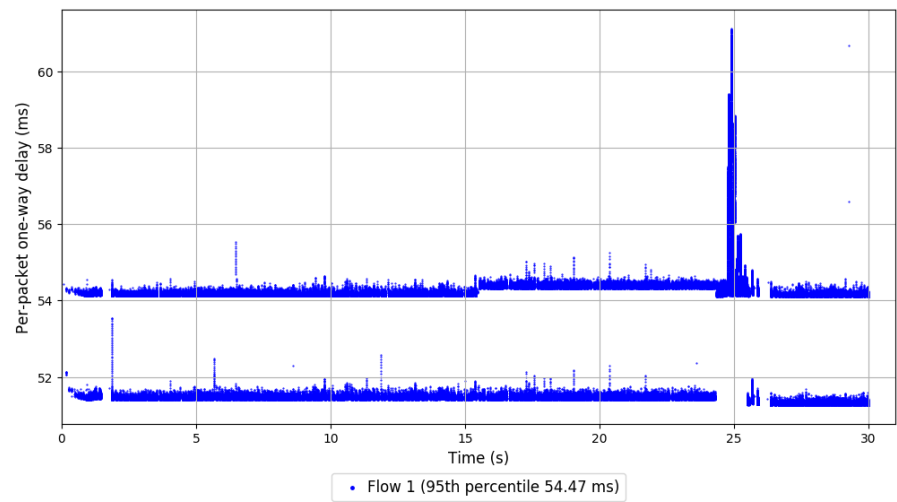
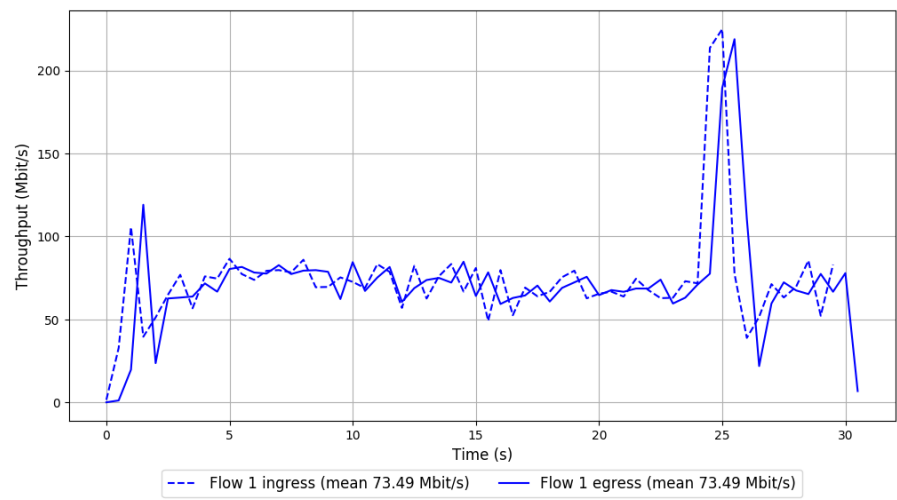
-- Flow 1:

Average throughput: 73.49 Mbit/s

95th percentile per-packet one-way delay: 54.469 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link

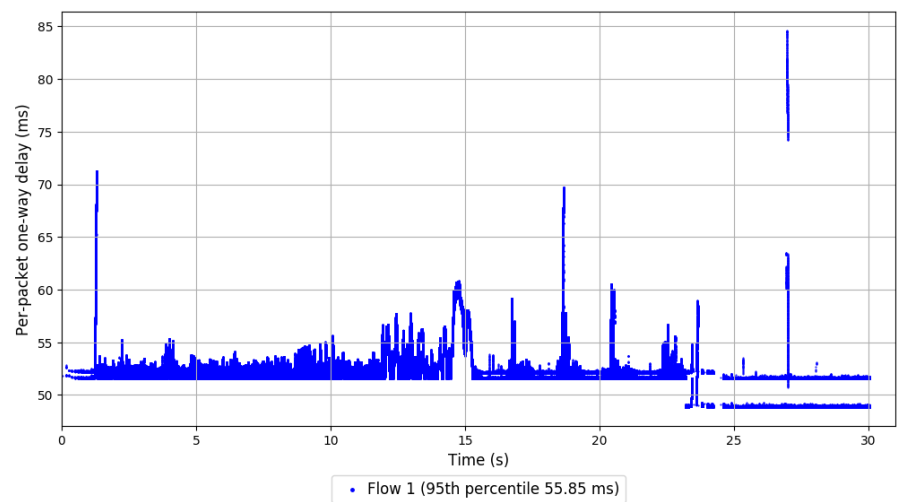
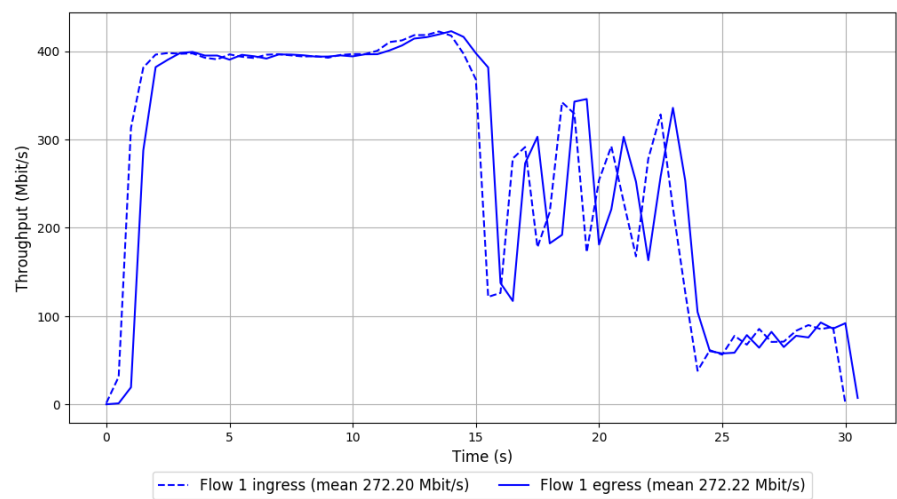


Run 10: Statistics of Copa

Start at: 2018-08-03 08:09:20  
End at: 2018-08-03 08:09:50  
Local clock offset: -0.117 ms  
Remote clock offset: -1.478 ms

# Below is generated by plot.py at 2018-08-03 08:49:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 272.22 Mbit/s  
95th percentile per-packet one-way delay: 55.846 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 272.22 Mbit/s  
95th percentile per-packet one-way delay: 55.846 ms  
Loss rate: 0.00%

Run 10: Report of Copa — Data Link

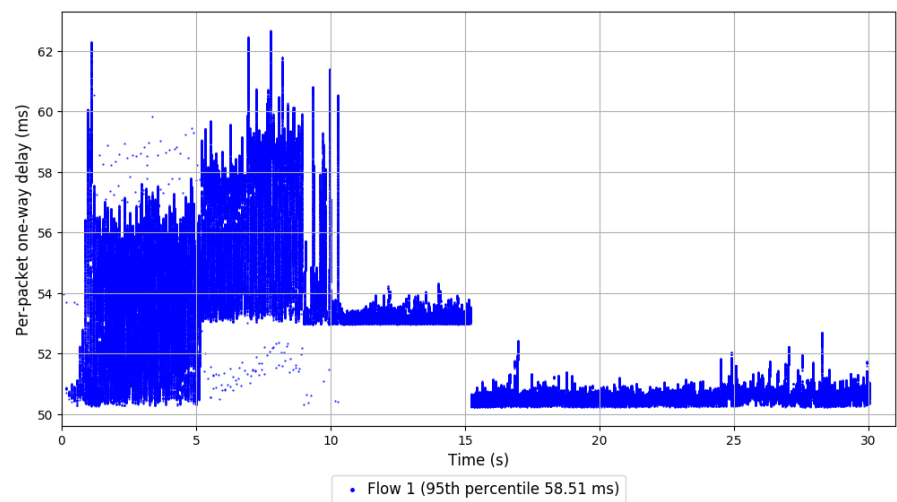
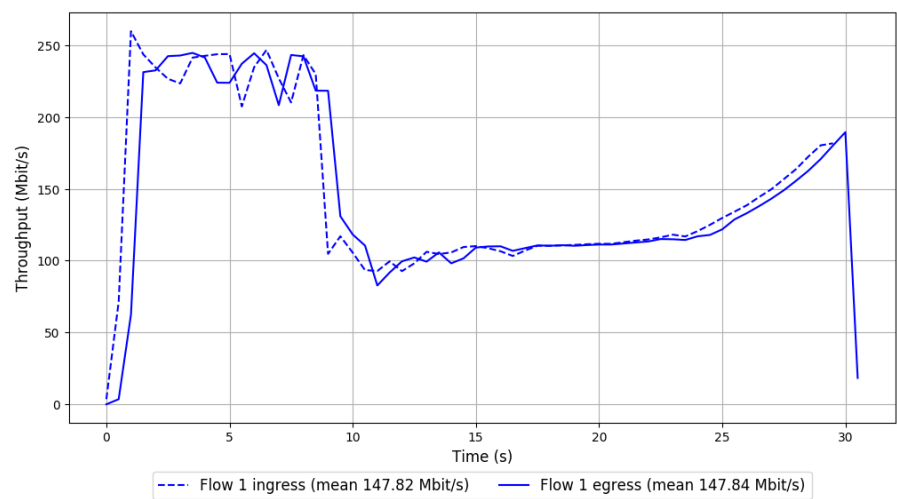


Run 1: Statistics of TCP Cubic

Start at: 2018-08-03 04:47:48  
End at: 2018-08-03 04:48:18  
Local clock offset: -0.047 ms  
Remote clock offset: -0.175 ms

# Below is generated by plot.py at 2018-08-03 08:49:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 147.84 Mbit/s  
95th percentile per-packet one-way delay: 58.506 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 147.84 Mbit/s  
95th percentile per-packet one-way delay: 58.506 ms  
Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link

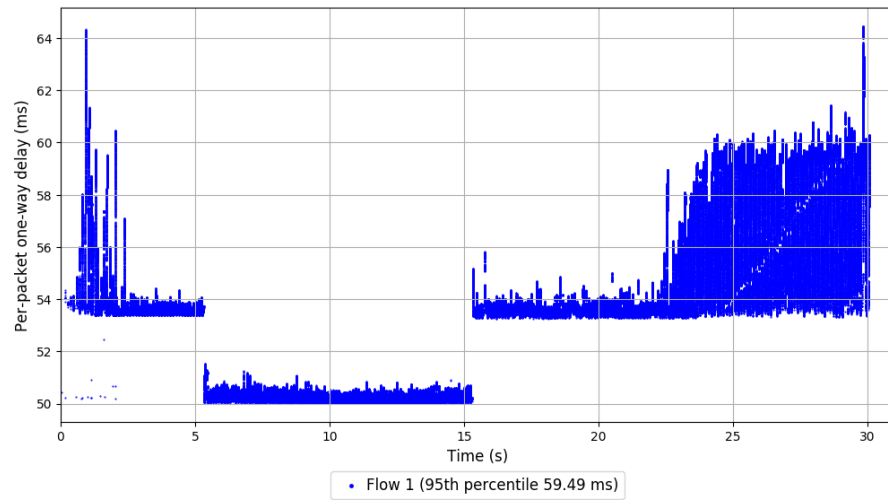
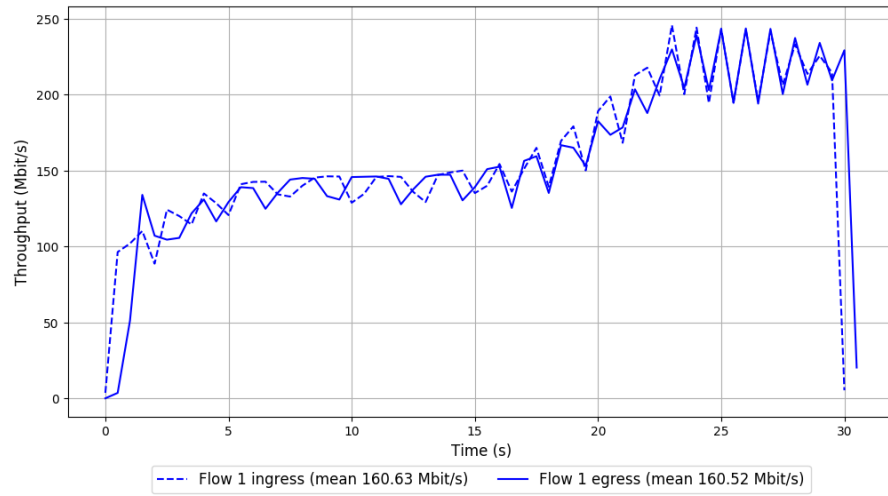


Run 2: Statistics of TCP Cubic

Start at: 2018-08-03 05:10:08  
End at: 2018-08-03 05:10:38  
Local clock offset: 0.007 ms  
Remote clock offset: -0.328 ms

# Below is generated by plot.py at 2018-08-03 08:49:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 160.52 Mbit/s  
95th percentile per-packet one-way delay: 59.493 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 160.52 Mbit/s  
95th percentile per-packet one-way delay: 59.493 ms  
Loss rate: 0.04%

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

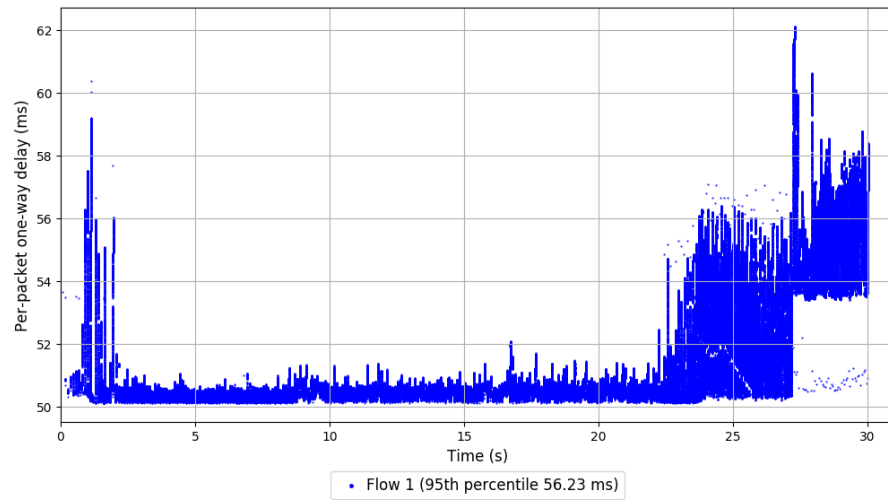
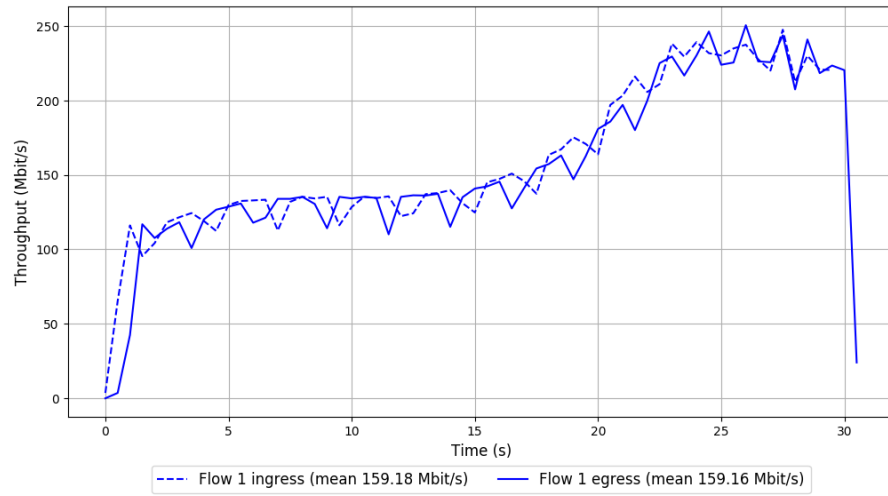


Run 3: Statistics of TCP Cubic

Start at: 2018-08-03 05:32:46  
End at: 2018-08-03 05:33:16  
Local clock offset: -0.021 ms  
Remote clock offset: -0.202 ms

# Below is generated by plot.py at 2018-08-03 08:49:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 159.16 Mbit/s  
95th percentile per-packet one-way delay: 56.226 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 159.16 Mbit/s  
95th percentile per-packet one-way delay: 56.226 ms  
Loss rate: 0.00%

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

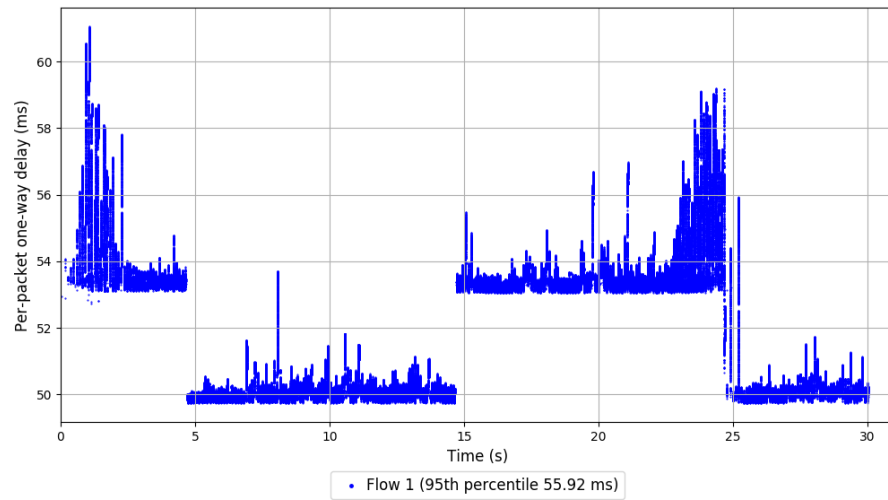
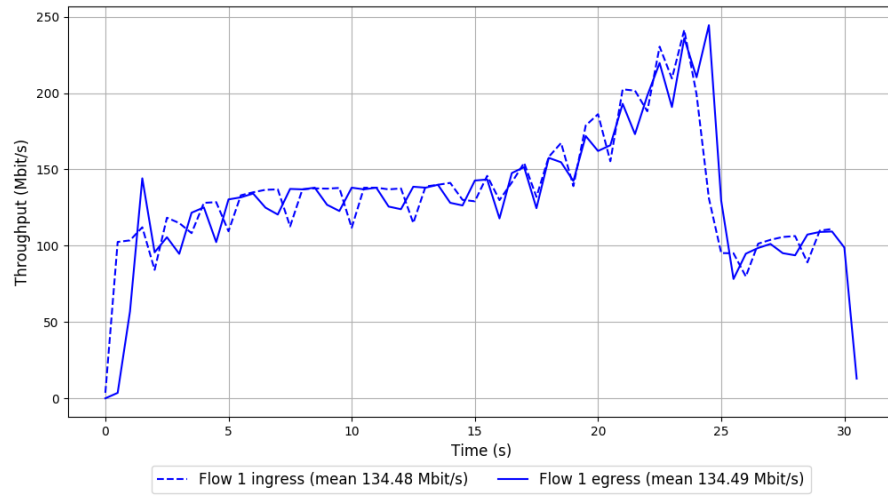


Run 4: Statistics of TCP Cubic

Start at: 2018-08-03 05:55:18  
End at: 2018-08-03 05:55:48  
Local clock offset: 0.219 ms  
Remote clock offset: -0.381 ms

# Below is generated by plot.py at 2018-08-03 08:49:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 134.49 Mbit/s  
95th percentile per-packet one-way delay: 55.921 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 134.49 Mbit/s  
95th percentile per-packet one-way delay: 55.921 ms  
Loss rate: 0.00%

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

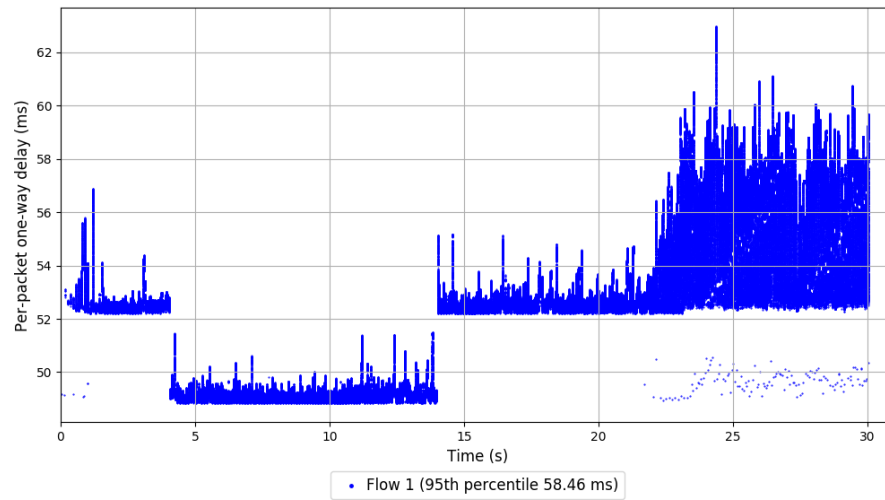
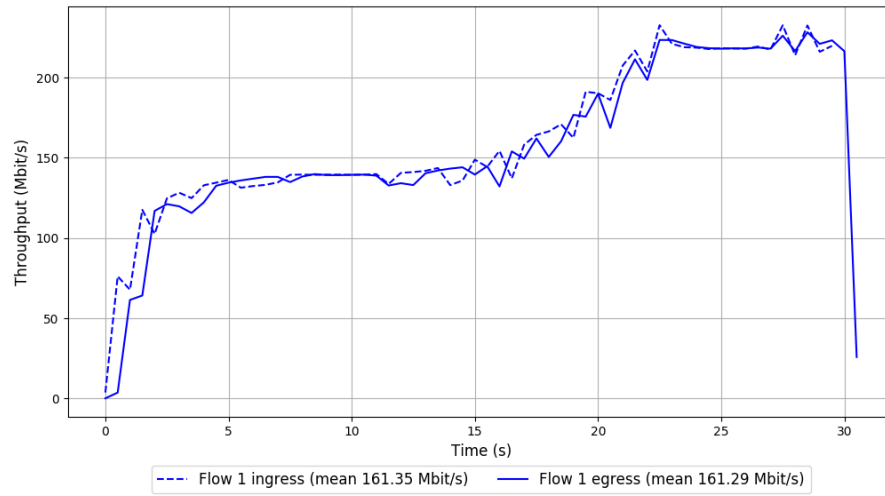


Run 5: Statistics of TCP Cubic

Start at: 2018-08-03 06:16:59  
End at: 2018-08-03 06:17:29  
Local clock offset: 0.039 ms  
Remote clock offset: -1.464 ms

# Below is generated by plot.py at 2018-08-03 08:49:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 161.29 Mbit/s  
95th percentile per-packet one-way delay: 58.462 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 161.29 Mbit/s  
95th percentile per-packet one-way delay: 58.462 ms  
Loss rate: 0.00%

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

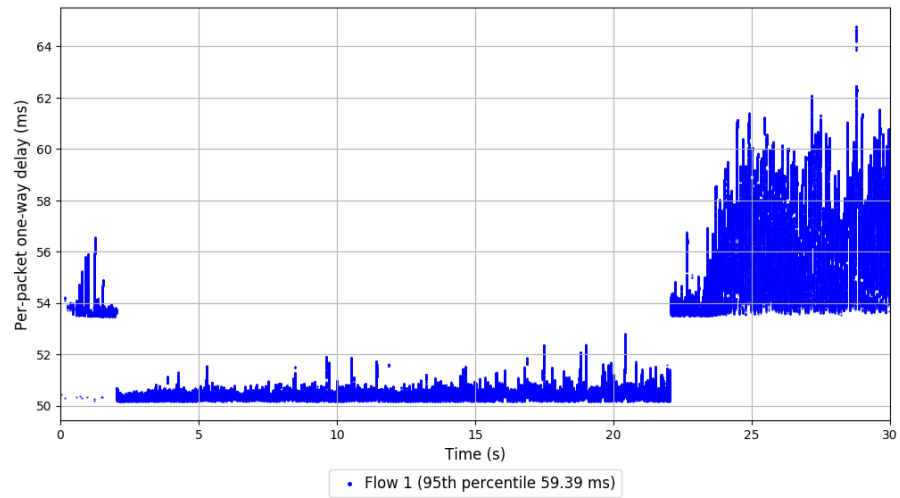
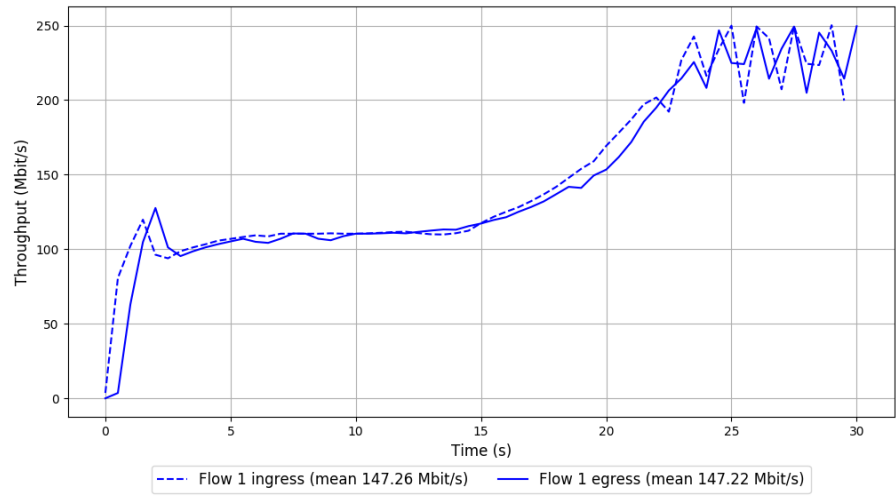


Run 6: Statistics of TCP Cubic

Start at: 2018-08-03 06:39:31  
End at: 2018-08-03 06:40:01  
Local clock offset: -0.007 ms  
Remote clock offset: -0.217 ms

# Below is generated by plot.py at 2018-08-03 08:49:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 147.22 Mbit/s  
95th percentile per-packet one-way delay: 59.389 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 147.22 Mbit/s  
95th percentile per-packet one-way delay: 59.389 ms  
Loss rate: 0.00%

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



Run 7: Statistics of TCP Cubic

Start at: 2018-08-03 07:01:26

End at: 2018-08-03 07:01:56

Local clock offset: 0.04 ms

Remote clock offset: 0.042 ms

# Below is generated by plot.py at 2018-08-03 08:49:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 152.78 Mbit/s

95th percentile per-packet one-way delay: 59.371 ms

Loss rate: 0.01%

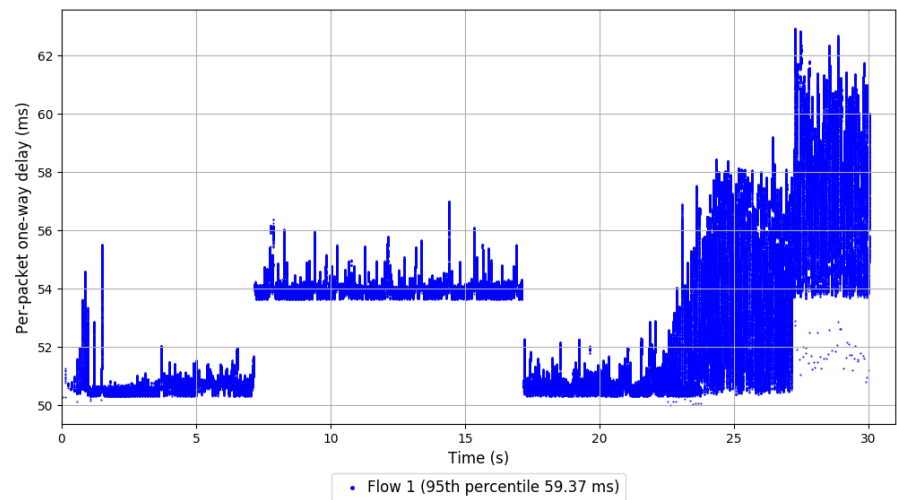
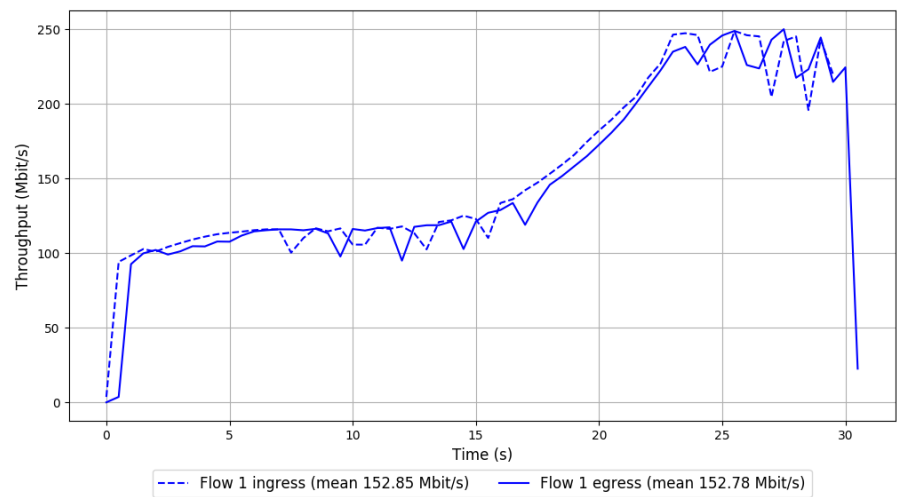
-- Flow 1:

Average throughput: 152.78 Mbit/s

95th percentile per-packet one-way delay: 59.371 ms

Loss rate: 0.01%

Run 7: Report of TCP Cubic — Data Link

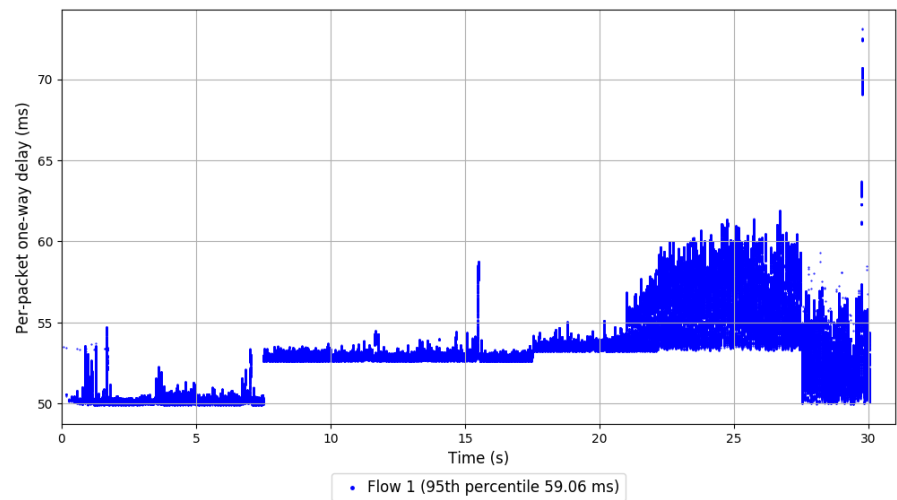
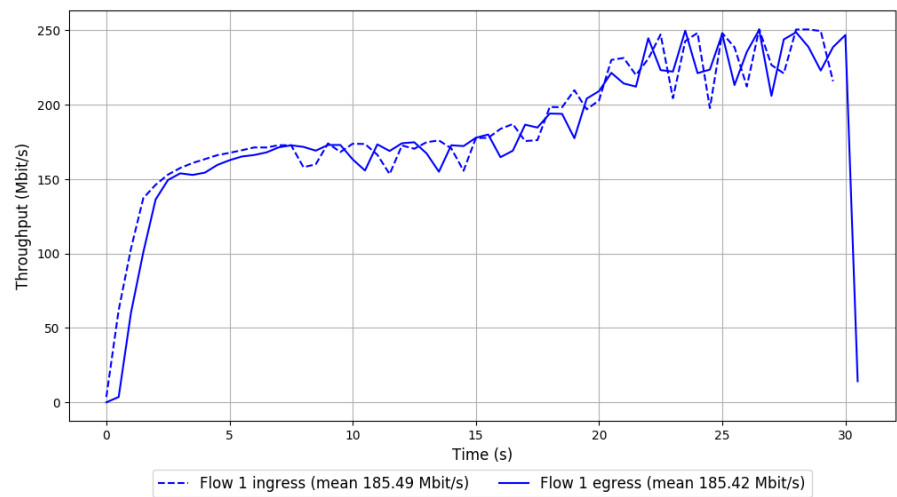


Run 8: Statistics of TCP Cubic

Start at: 2018-08-03 07:23:26  
End at: 2018-08-03 07:23:56  
Local clock offset: 0.057 ms  
Remote clock offset: -0.319 ms

# Below is generated by plot.py at 2018-08-03 08:49:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 185.42 Mbit/s  
95th percentile per-packet one-way delay: 59.056 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 185.42 Mbit/s  
95th percentile per-packet one-way delay: 59.056 ms  
Loss rate: 0.04%

Run 8: Report of TCP Cubic — Data Link

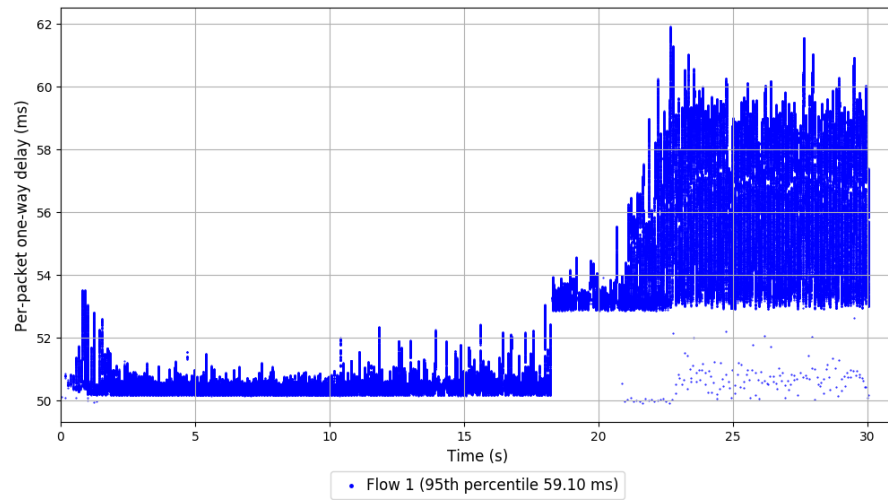
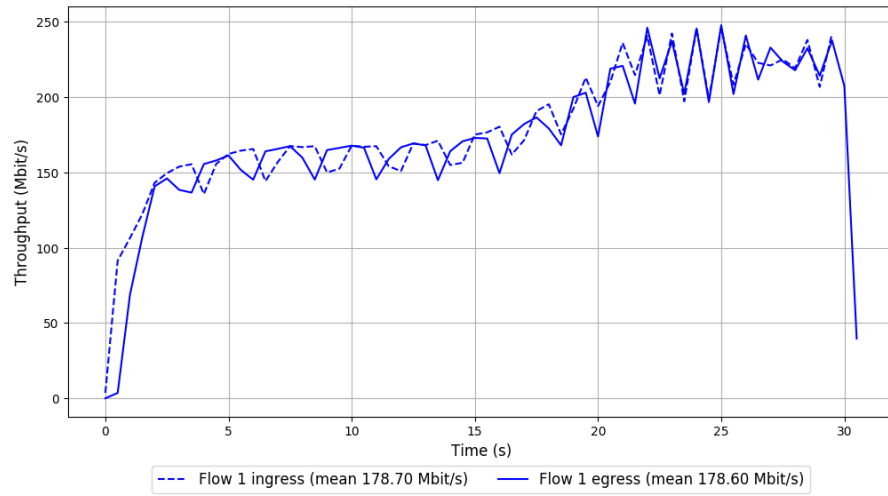


Run 9: Statistics of TCP Cubic

Start at: 2018-08-03 07:46:05  
End at: 2018-08-03 07:46:35  
Local clock offset: -0.263 ms  
Remote clock offset: -0.282 ms

# Below is generated by plot.py at 2018-08-03 08:49:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 178.60 Mbit/s  
95th percentile per-packet one-way delay: 59.099 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 178.60 Mbit/s  
95th percentile per-packet one-way delay: 59.099 ms  
Loss rate: 0.04%

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



Run 10: Statistics of TCP Cubic

Start at: 2018-08-03 08:08:07

End at: 2018-08-03 08:08:37

Local clock offset: -0.061 ms

Remote clock offset: 0.157 ms

# Below is generated by plot.py at 2018-08-03 08:49:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 153.86 Mbit/s

95th percentile per-packet one-way delay: 56.004 ms

Loss rate: 0.07%

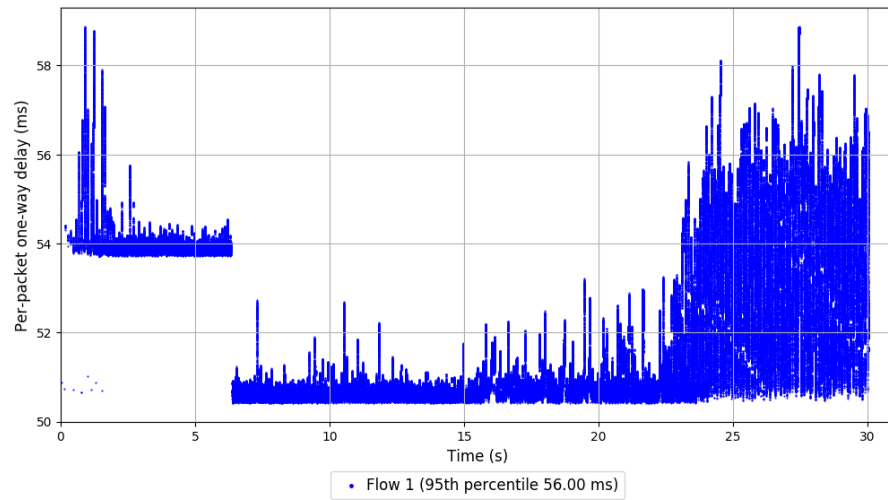
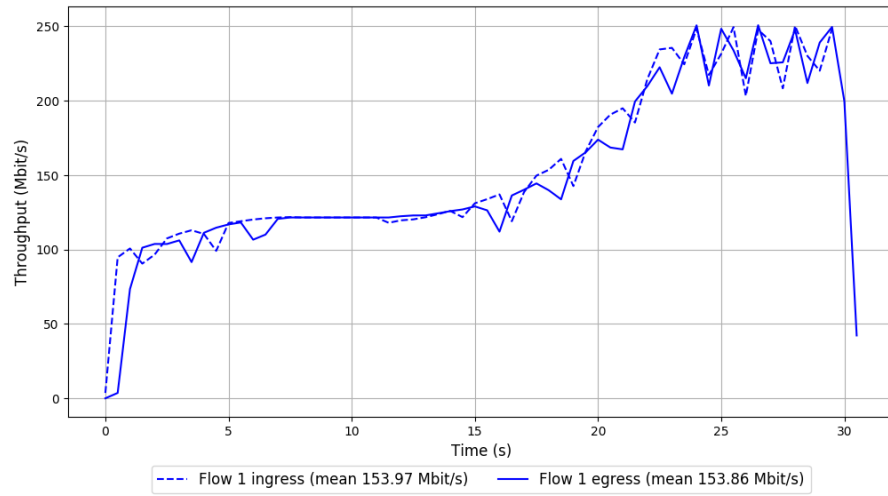
-- Flow 1:

Average throughput: 153.86 Mbit/s

95th percentile per-packet one-way delay: 56.004 ms

Loss rate: 0.07%

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

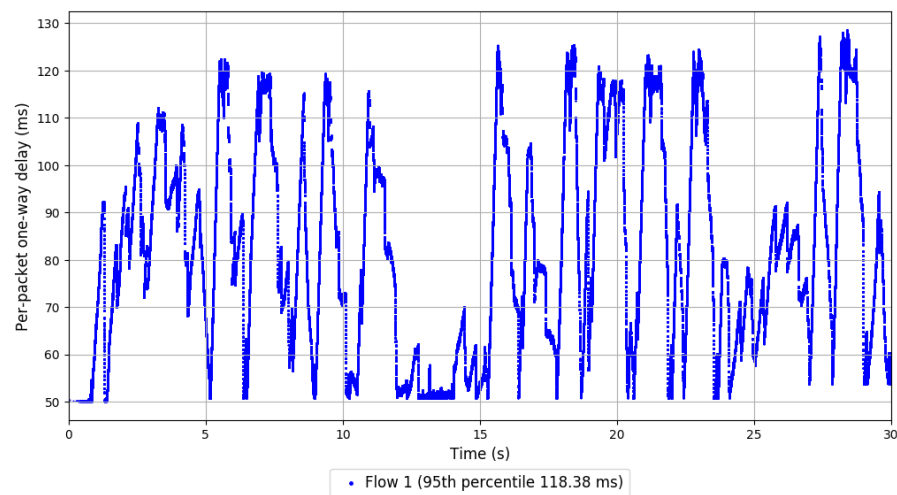
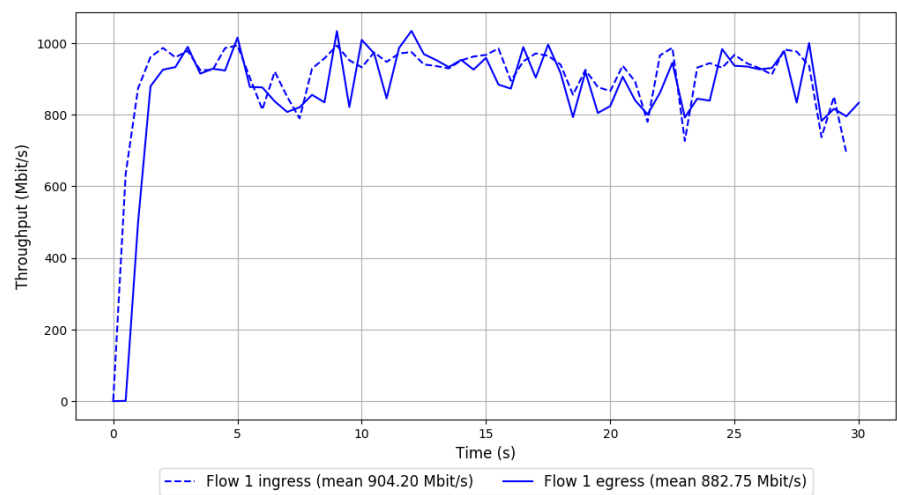


Run 1: Statistics of FillP

Start at: 2018-08-03 04:41:29  
End at: 2018-08-03 04:41:59  
Local clock offset: -0.017 ms  
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2018-08-03 09:04:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 882.75 Mbit/s  
95th percentile per-packet one-way delay: 118.375 ms  
Loss rate: 2.36%  
-- Flow 1:  
Average throughput: 882.75 Mbit/s  
95th percentile per-packet one-way delay: 118.375 ms  
Loss rate: 2.36%

Run 1: Report of FillP — Data Link

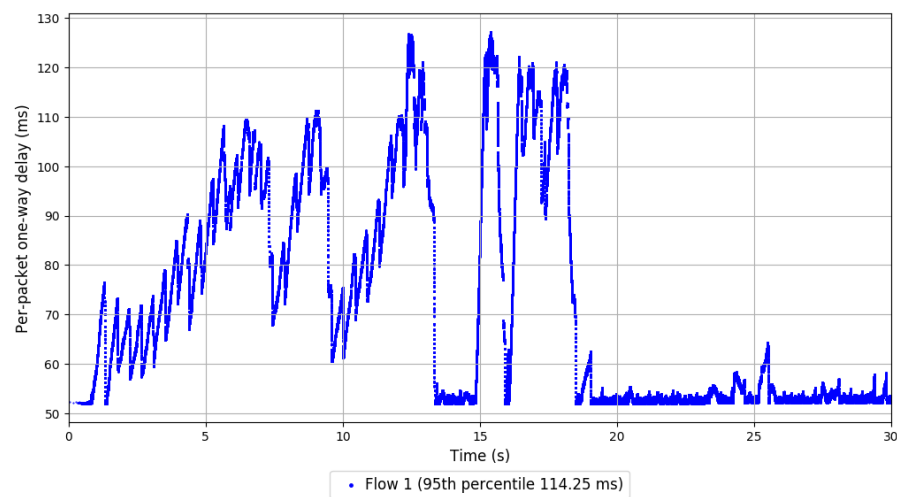
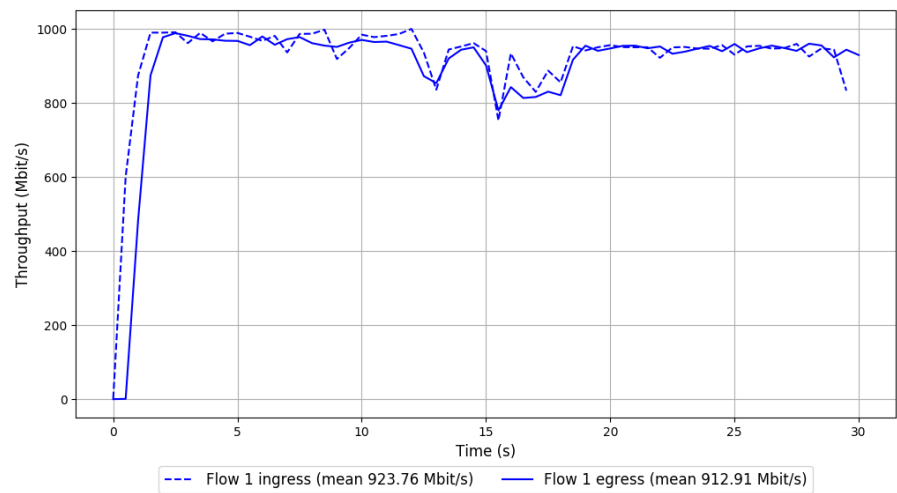


Run 2: Statistics of FillP

Start at: 2018-08-03 05:03:51  
End at: 2018-08-03 05:04:21  
Local clock offset: -0.134 ms  
Remote clock offset: -1.522 ms

# Below is generated by plot.py at 2018-08-03 09:04:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 912.91 Mbit/s  
95th percentile per-packet one-way delay: 114.253 ms  
Loss rate: 1.18%  
-- Flow 1:  
Average throughput: 912.91 Mbit/s  
95th percentile per-packet one-way delay: 114.253 ms  
Loss rate: 1.18%

Run 2: Report of FillP — Data Link

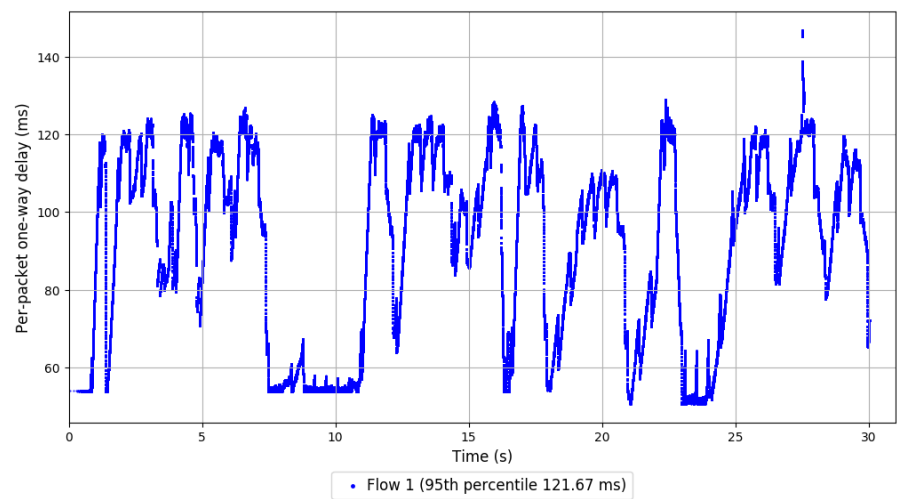
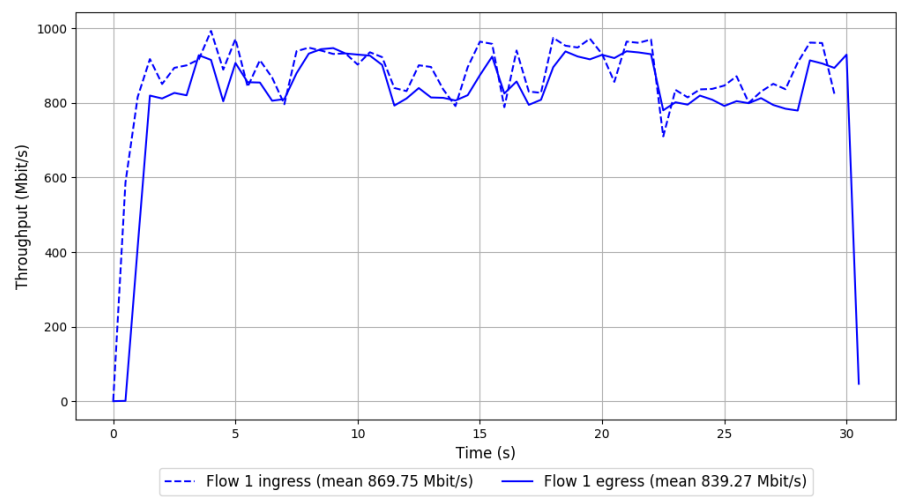


Run 3: Statistics of FillP

Start at: 2018-08-03 05:26:26  
End at: 2018-08-03 05:26:56  
Local clock offset: -0.261 ms  
Remote clock offset: -0.213 ms

# Below is generated by plot.py at 2018-08-03 09:04:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 839.27 Mbit/s  
95th percentile per-packet one-way delay: 121.669 ms  
Loss rate: 3.50%  
-- Flow 1:  
Average throughput: 839.27 Mbit/s  
95th percentile per-packet one-way delay: 121.669 ms  
Loss rate: 3.50%

Run 3: Report of FillP — Data Link

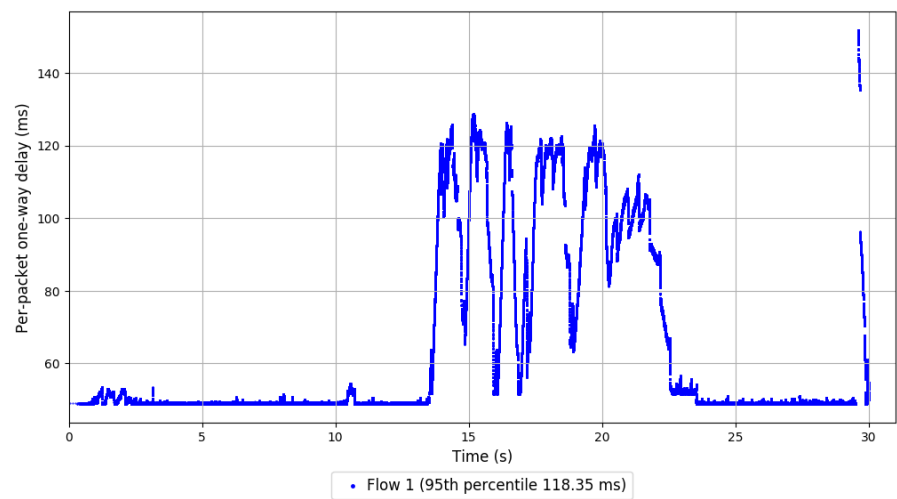
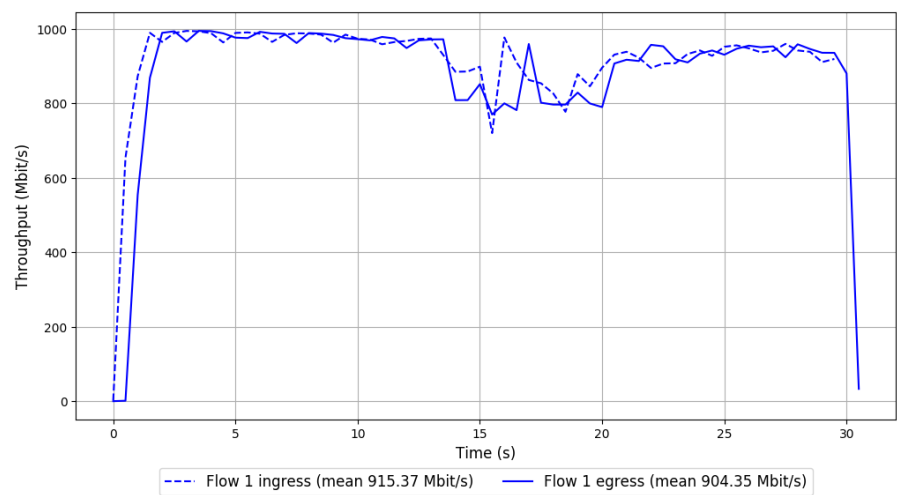


Run 4: Statistics of FillP

Start at: 2018-08-03 05:49:00  
End at: 2018-08-03 05:49:30  
Local clock offset: 0.008 ms  
Remote clock offset: -1.475 ms

# Below is generated by plot.py at 2018-08-03 09:04:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 904.35 Mbit/s  
95th percentile per-packet one-way delay: 118.352 ms  
Loss rate: 1.20%  
-- Flow 1:  
Average throughput: 904.35 Mbit/s  
95th percentile per-packet one-way delay: 118.352 ms  
Loss rate: 1.20%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-08-03 06:10:41

End at: 2018-08-03 06:11:11

Local clock offset: -0.086 ms

Remote clock offset: 0.971 ms

# Below is generated by plot.py at 2018-08-03 09:04:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 849.43 Mbit/s

95th percentile per-packet one-way delay: 124.291 ms

Loss rate: 3.03%

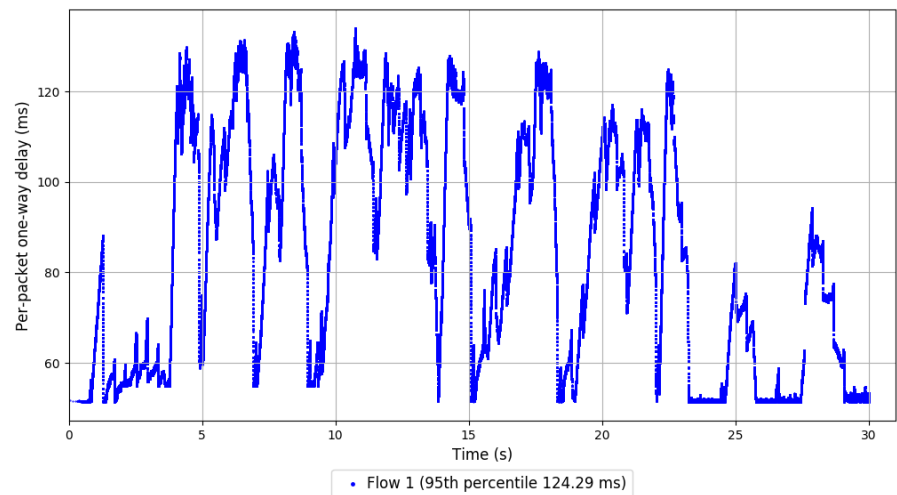
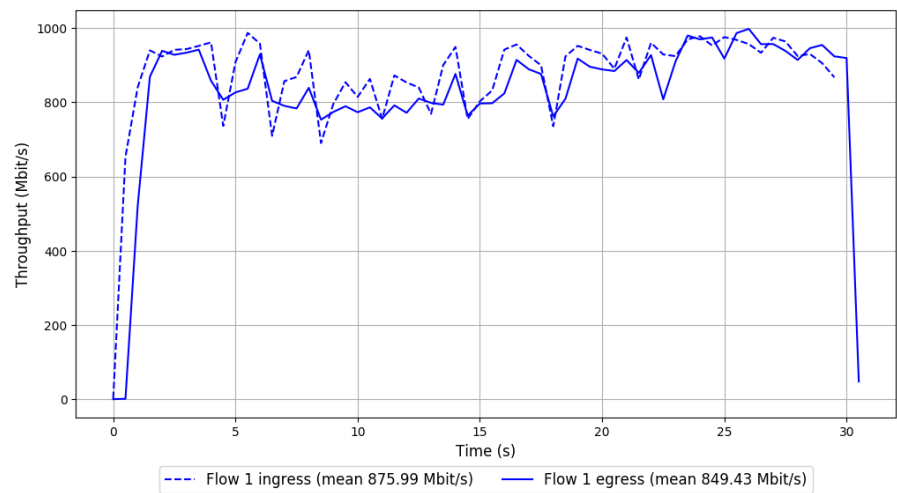
-- Flow 1:

Average throughput: 849.43 Mbit/s

95th percentile per-packet one-way delay: 124.291 ms

Loss rate: 3.03%

Run 5: Report of FillP — Data Link

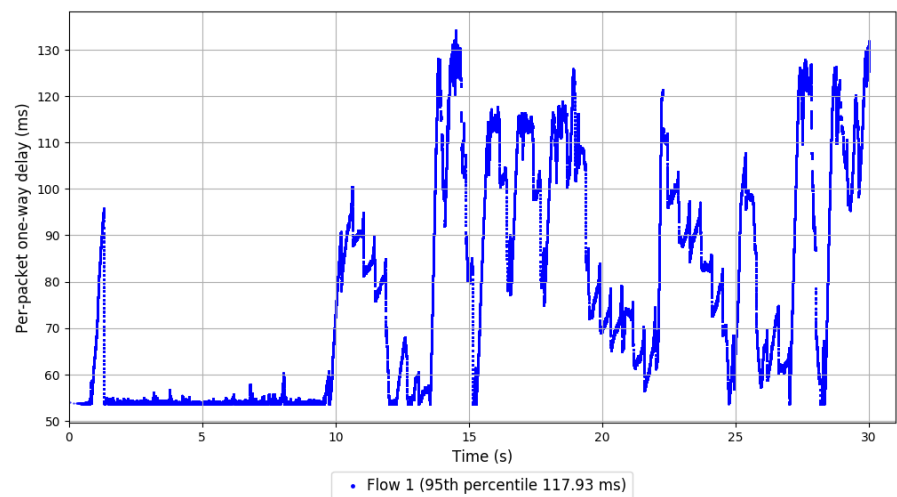
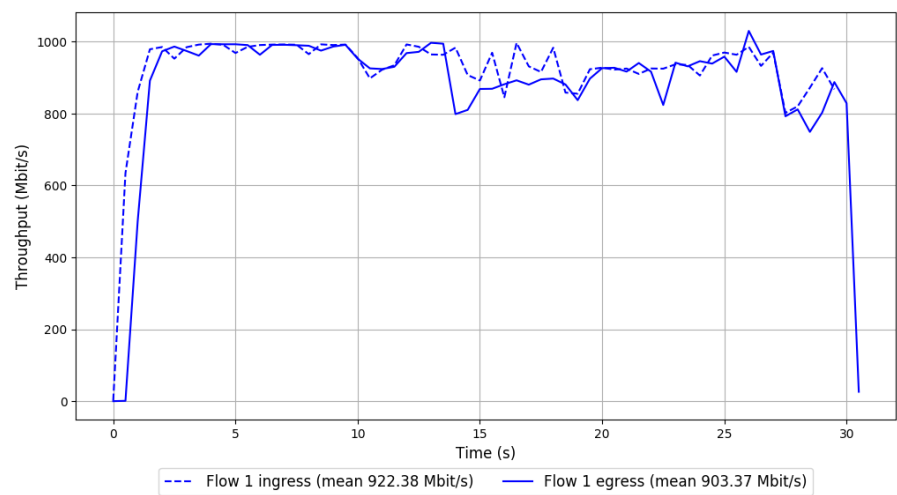


Run 6: Statistics of FillP

Start at: 2018-08-03 06:33:12  
End at: 2018-08-03 06:33:42  
Local clock offset: -0.106 ms  
Remote clock offset: -0.126 ms

# Below is generated by plot.py at 2018-08-03 09:05:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 903.37 Mbit/s  
95th percentile per-packet one-way delay: 117.929 ms  
Loss rate: 2.06%  
-- Flow 1:  
Average throughput: 903.37 Mbit/s  
95th percentile per-packet one-way delay: 117.929 ms  
Loss rate: 2.06%

Run 6: Report of FillP — Data Link

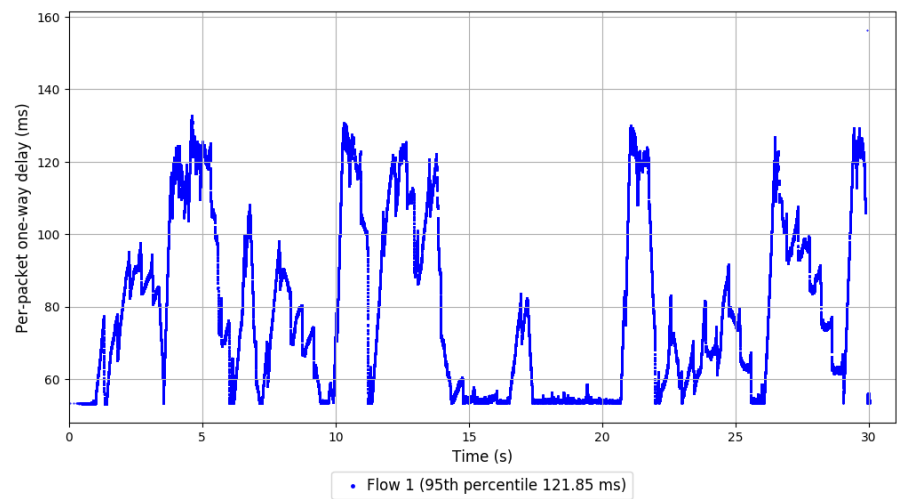
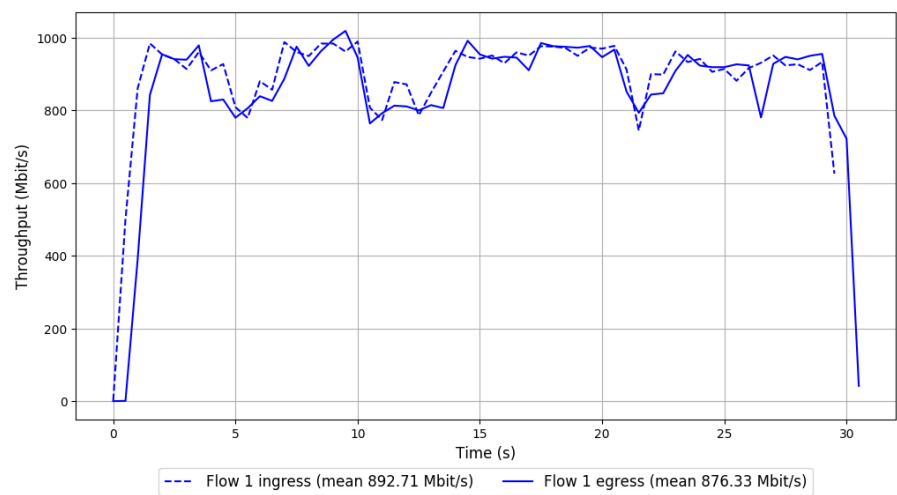


Run 7: Statistics of FillP

Start at: 2018-08-03 06:55:08  
End at: 2018-08-03 06:55:38  
Local clock offset: 0.169 ms  
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2018-08-03 09:05:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 876.33 Mbit/s  
95th percentile per-packet one-way delay: 121.847 ms  
Loss rate: 1.84%  
-- Flow 1:  
Average throughput: 876.33 Mbit/s  
95th percentile per-packet one-way delay: 121.847 ms  
Loss rate: 1.84%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-08-03 07:17:14

End at: 2018-08-03 07:17:44

Local clock offset: -0.008 ms

Remote clock offset: 0.847 ms

# Below is generated by plot.py at 2018-08-03 09:05:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 801.53 Mbit/s

95th percentile per-packet one-way delay: 127.866 ms

Loss rate: 4.28%

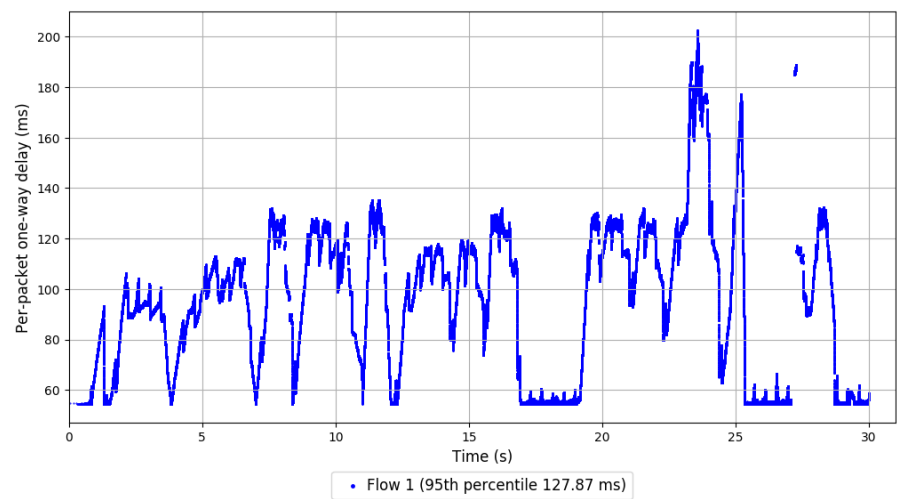
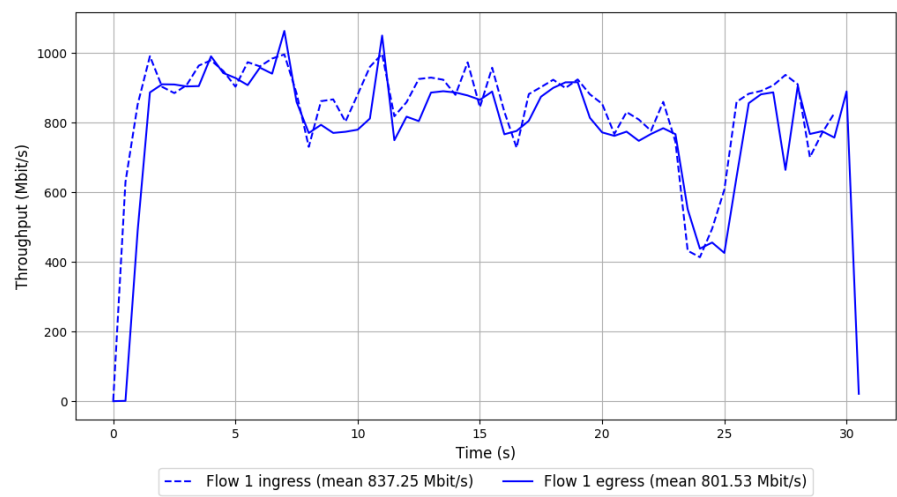
-- Flow 1:

Average throughput: 801.53 Mbit/s

95th percentile per-packet one-way delay: 127.866 ms

Loss rate: 4.28%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-08-03 07:39:46

End at: 2018-08-03 07:40:16

Local clock offset: 0.061 ms

Remote clock offset: 0.029 ms

# Below is generated by plot.py at 2018-08-03 09:20:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 877.96 Mbit/s

95th percentile per-packet one-way delay: 121.418 ms

Loss rate: 2.00%

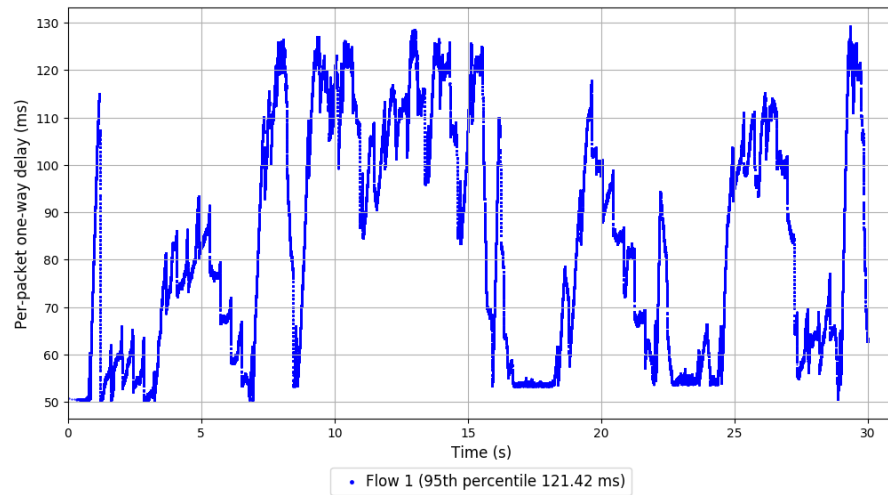
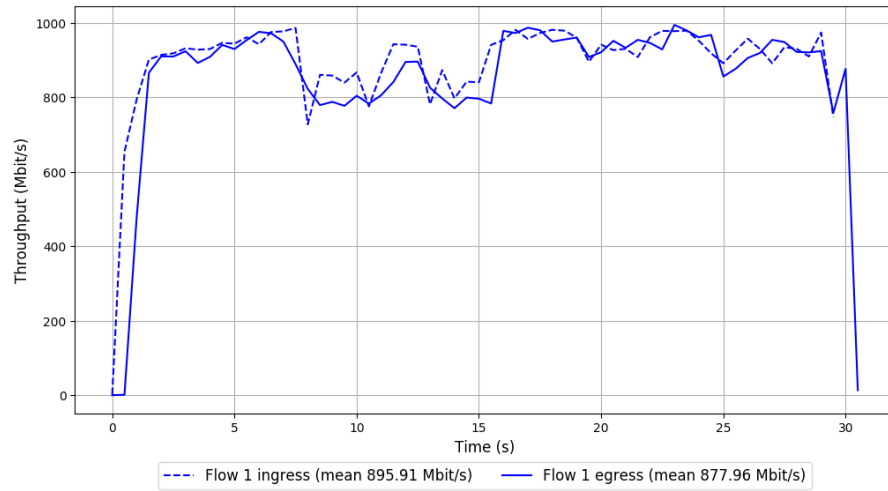
-- Flow 1:

Average throughput: 877.96 Mbit/s

95th percentile per-packet one-way delay: 121.418 ms

Loss rate: 2.00%

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

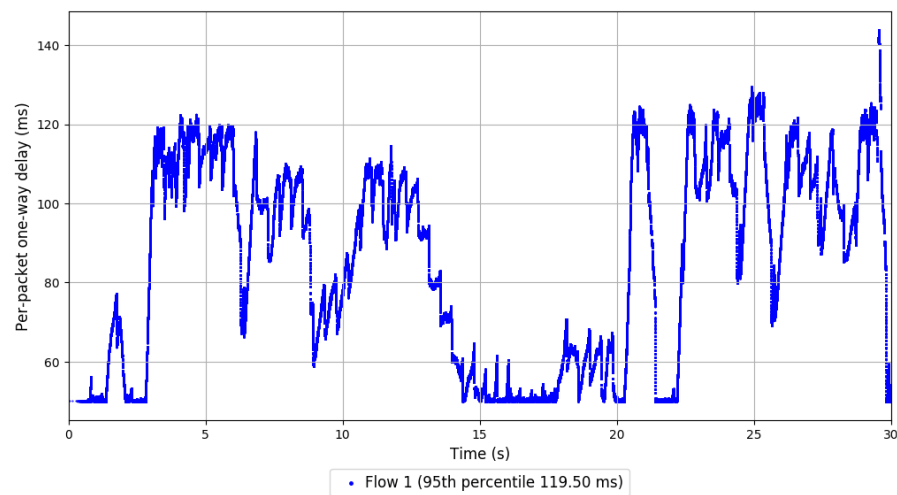
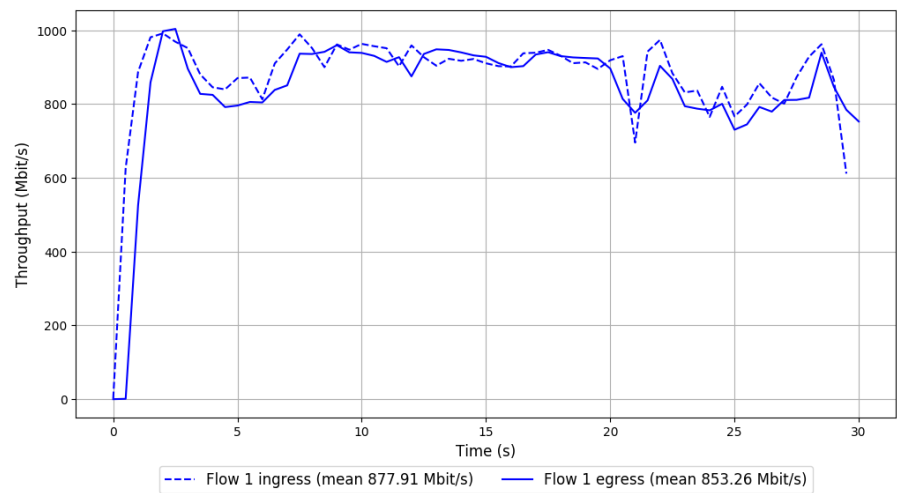


Run 10: Statistics of FillP

Start at: 2018-08-03 08:01:47  
End at: 2018-08-03 08:02:17  
Local clock offset: -0.06 ms  
Remote clock offset: -0.302 ms

# Below is generated by plot.py at 2018-08-03 09:20:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 853.26 Mbit/s  
95th percentile per-packet one-way delay: 119.497 ms  
Loss rate: 2.80%  
-- Flow 1:  
Average throughput: 853.26 Mbit/s  
95th percentile per-packet one-way delay: 119.497 ms  
Loss rate: 2.80%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-08-03 04:44:36

End at: 2018-08-03 04:45:06

Local clock offset: 0.132 ms

Remote clock offset: -0.143 ms

# Below is generated by plot.py at 2018-08-03 09:20:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 870.40 Mbit/s

95th percentile per-packet one-way delay: 99.837 ms

Loss rate: 0.13%

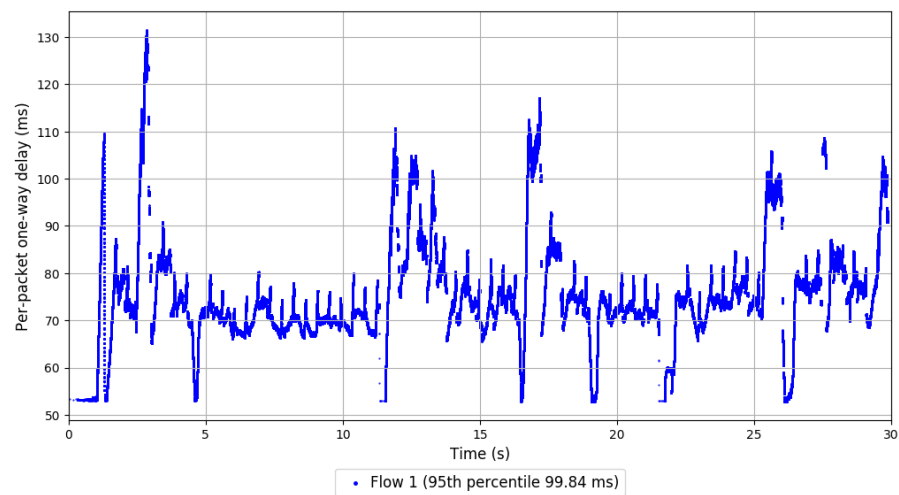
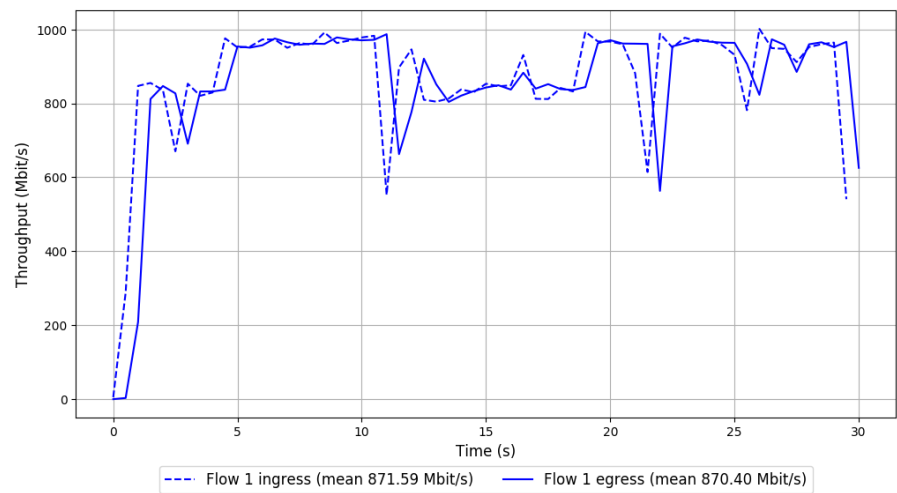
-- Flow 1:

Average throughput: 870.40 Mbit/s

95th percentile per-packet one-way delay: 99.837 ms

Loss rate: 0.13%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-08-03 05:06:56

End at: 2018-08-03 05:07:26

Local clock offset: 0.121 ms

Remote clock offset: -0.194 ms

# Below is generated by plot.py at 2018-08-03 09:21:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 891.27 Mbit/s

95th percentile per-packet one-way delay: 90.297 ms

Loss rate: 0.12%

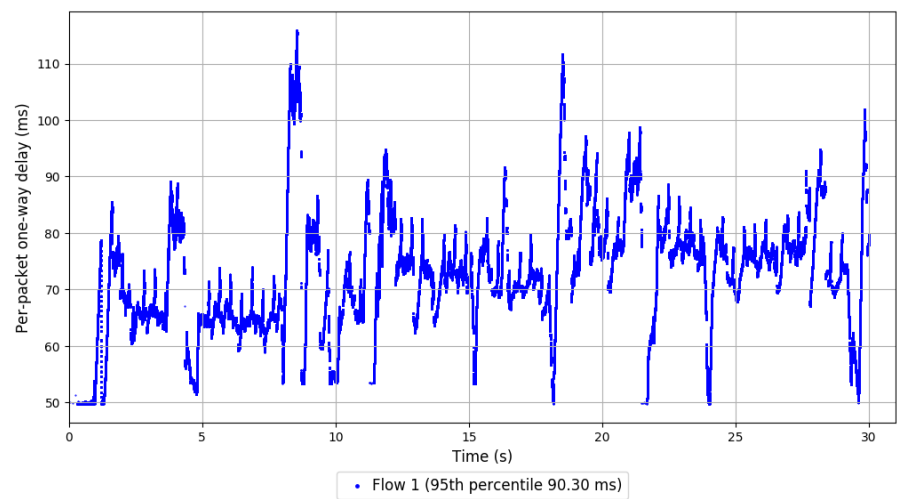
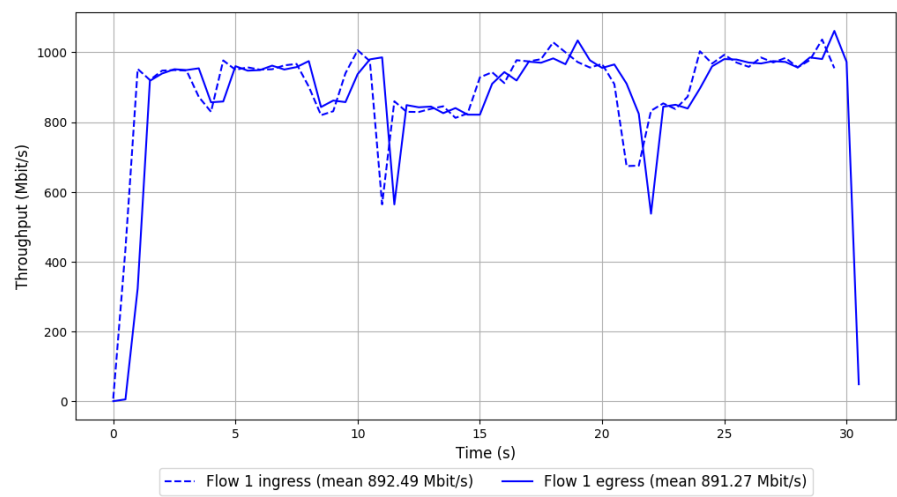
-- Flow 1:

Average throughput: 891.27 Mbit/s

95th percentile per-packet one-way delay: 90.297 ms

Loss rate: 0.12%

Run 2: Report of FillP-Sheep — Data Link

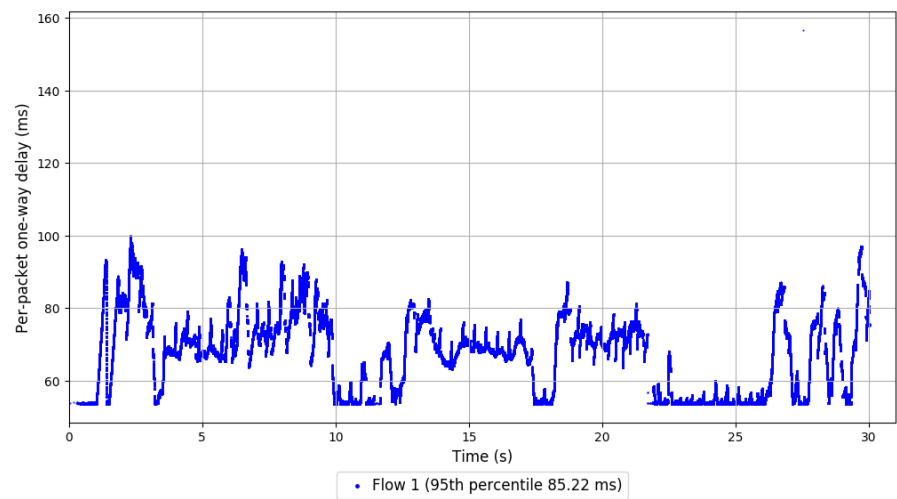
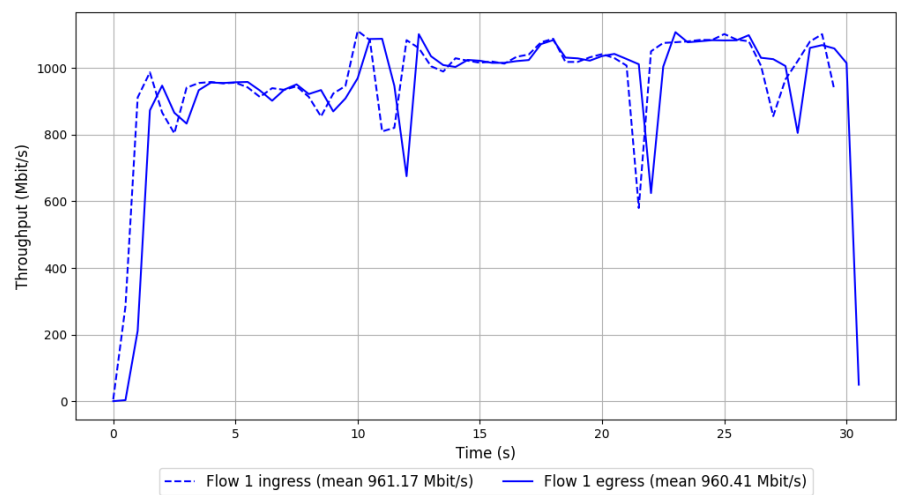


Run 3: Statistics of FillP-Sheep

Start at: 2018-08-03 05:29:33  
End at: 2018-08-03 05:30:03  
Local clock offset: -0.032 ms  
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2018-08-03 09:22:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 960.41 Mbit/s  
95th percentile per-packet one-way delay: 85.223 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 960.41 Mbit/s  
95th percentile per-packet one-way delay: 85.223 ms  
Loss rate: 0.08%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-08-03 05:52:08

End at: 2018-08-03 05:52:38

Local clock offset: 0.246 ms

Remote clock offset: 0.065 ms

# Below is generated by plot.py at 2018-08-03 09:22:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 876.53 Mbit/s

95th percentile per-packet one-way delay: 100.607 ms

Loss rate: 0.11%

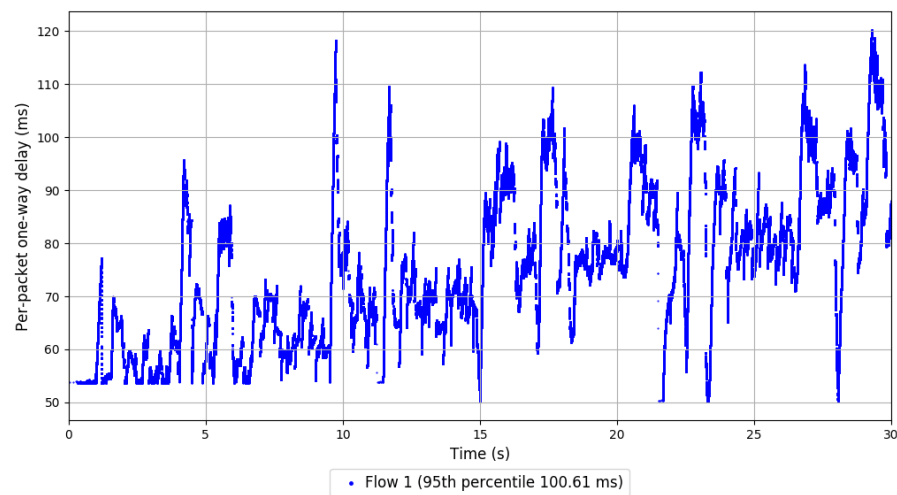
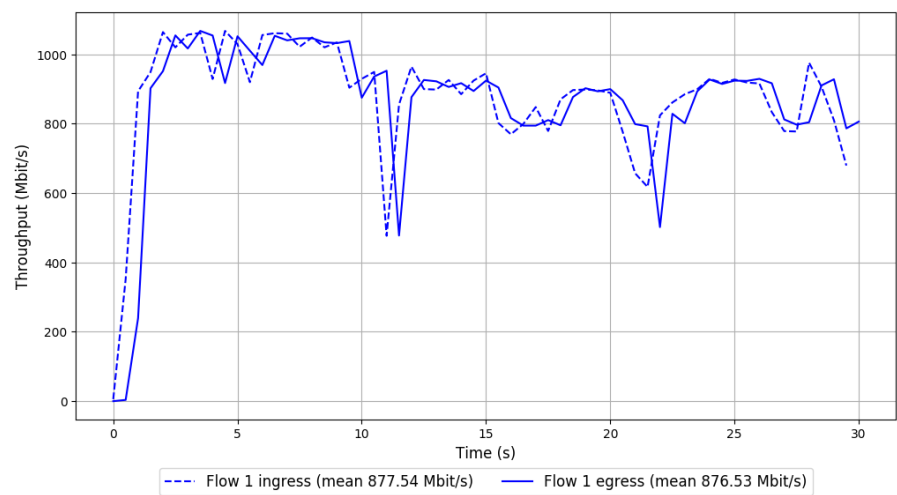
-- Flow 1:

Average throughput: 876.53 Mbit/s

95th percentile per-packet one-way delay: 100.607 ms

Loss rate: 0.11%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-08-03 06:13:47

End at: 2018-08-03 06:14:17

Local clock offset: 0.125 ms

Remote clock offset: -1.332 ms

# Below is generated by plot.py at 2018-08-03 09:22:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 891.10 Mbit/s

95th percentile per-packet one-way delay: 94.095 ms

Loss rate: 0.08%

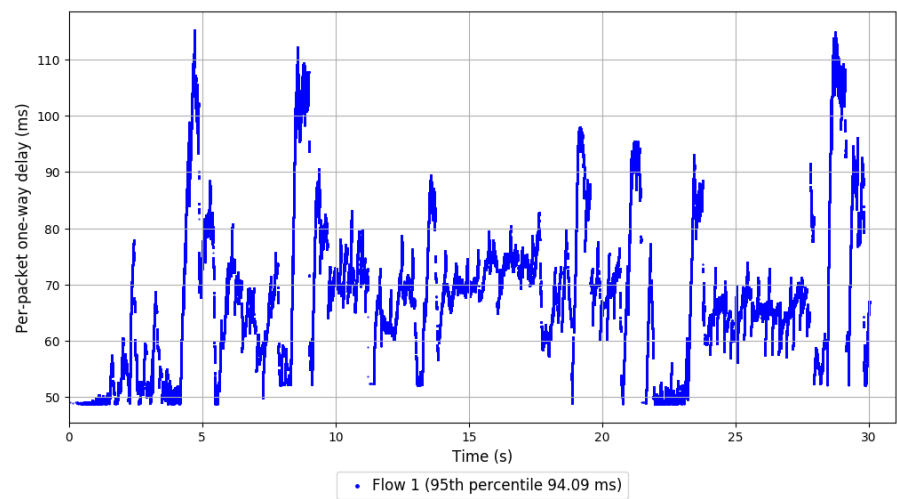
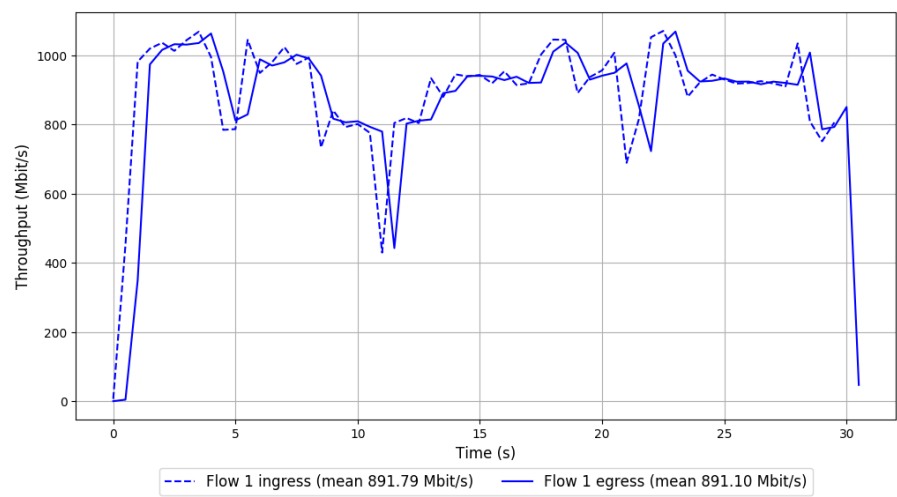
-- Flow 1:

Average throughput: 891.10 Mbit/s

95th percentile per-packet one-way delay: 94.095 ms

Loss rate: 0.08%

Run 5: Report of FillP-Sheep — Data Link

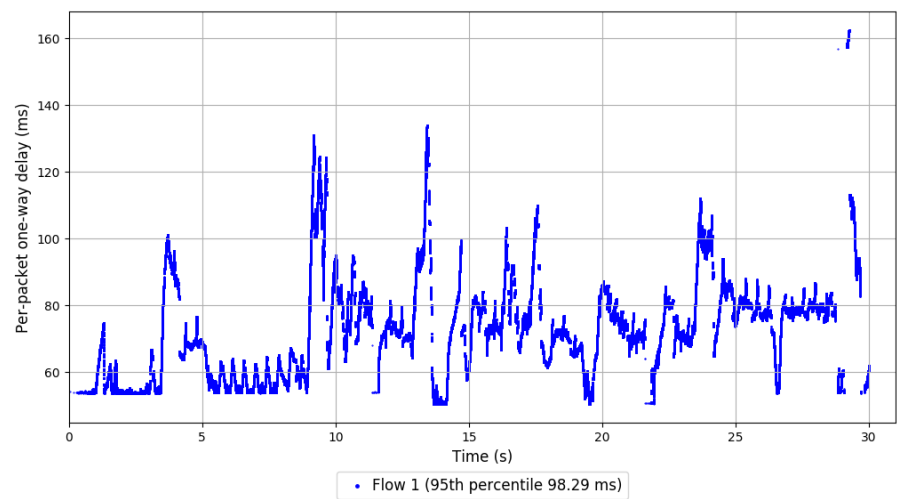
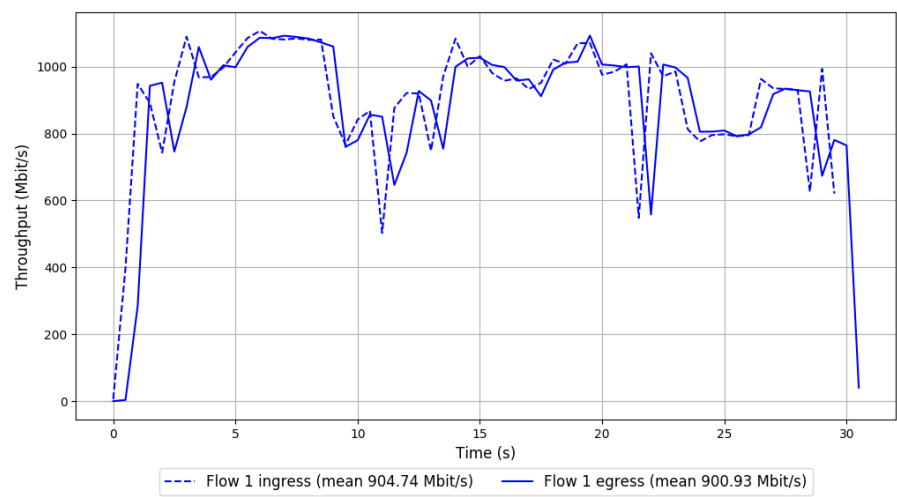


Run 6: Statistics of FillP-Sheep

Start at: 2018-08-03 06:36:21  
End at: 2018-08-03 06:36:51  
Local clock offset: -0.234 ms  
Remote clock offset: -0.207 ms

# Below is generated by plot.py at 2018-08-03 09:22:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 900.93 Mbit/s  
95th percentile per-packet one-way delay: 98.287 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 900.93 Mbit/s  
95th percentile per-packet one-way delay: 98.287 ms  
Loss rate: 0.43%

Run 6: Report of FillP-Sheep — Data Link

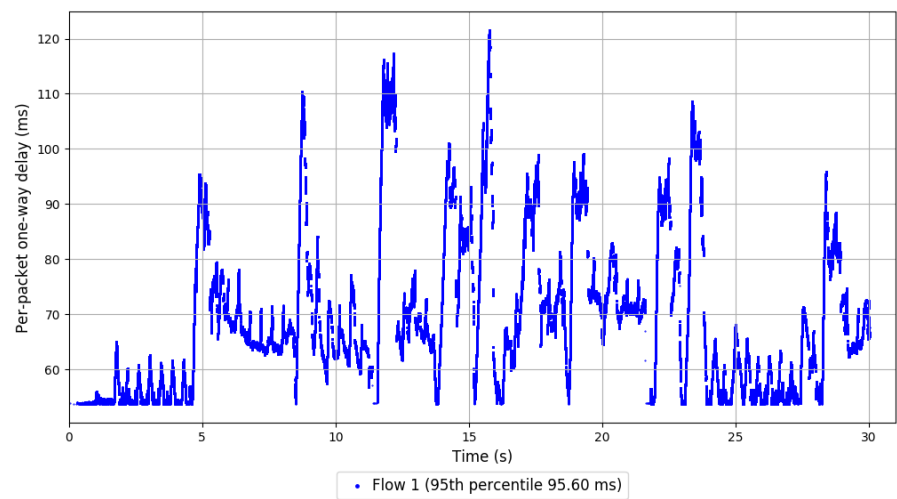
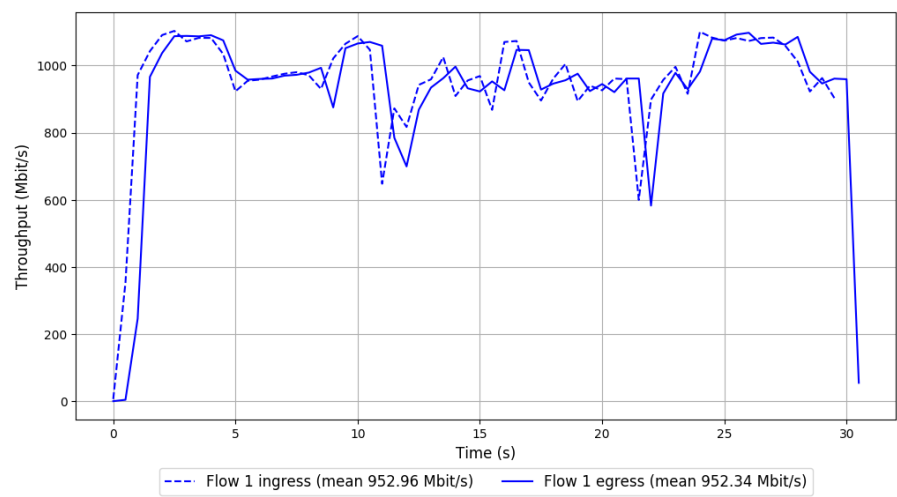


Run 7: Statistics of FillP-Sheep

Start at: 2018-08-03 06:58:14  
End at: 2018-08-03 06:58:44  
Local clock offset: -0.164 ms  
Remote clock offset: -0.319 ms

# Below is generated by plot.py at 2018-08-03 09:37:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 952.34 Mbit/s  
95th percentile per-packet one-way delay: 95.600 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 952.34 Mbit/s  
95th percentile per-packet one-way delay: 95.600 ms  
Loss rate: 0.06%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-08-03 07:20:16

End at: 2018-08-03 07:20:46

Local clock offset: 0.165 ms

Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2018-08-03 09:37:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 886.76 Mbit/s

95th percentile per-packet one-way delay: 87.444 ms

Loss rate: 0.13%

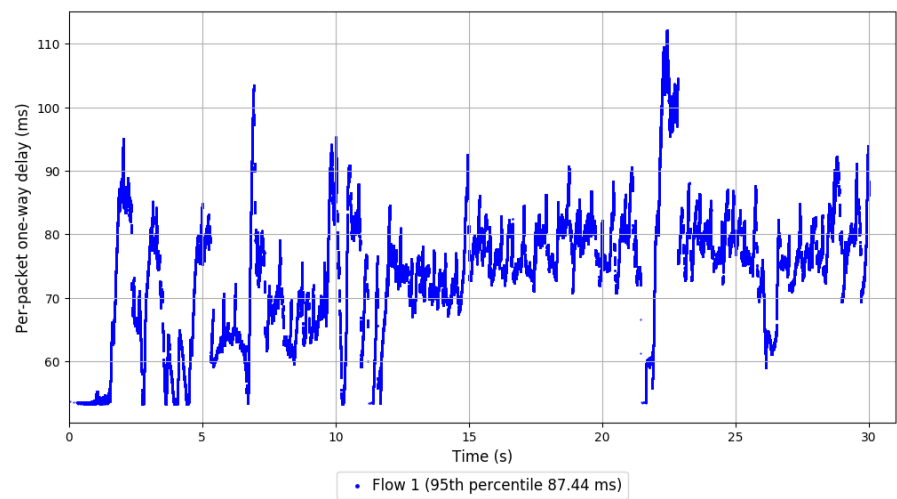
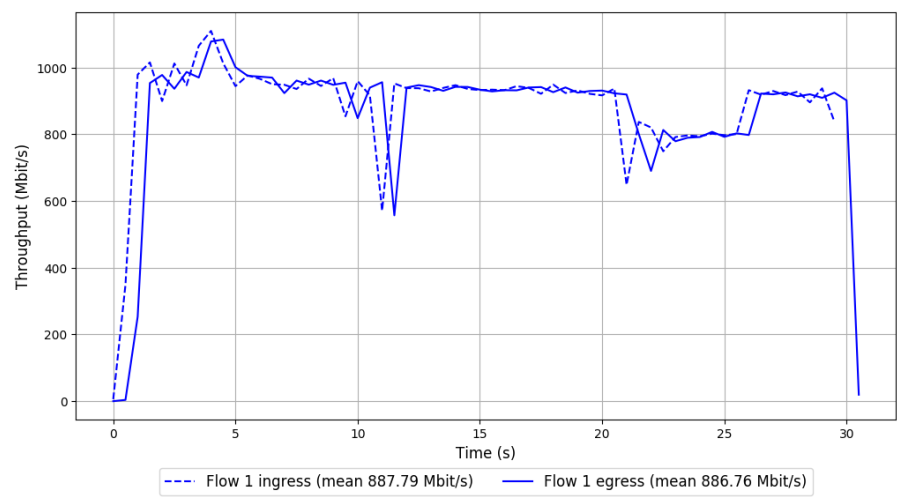
-- Flow 1:

Average throughput: 886.76 Mbit/s

95th percentile per-packet one-way delay: 87.444 ms

Loss rate: 0.13%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-08-03 07:42:53

End at: 2018-08-03 07:43:23

Local clock offset: 0.05 ms

Remote clock offset: -0.17 ms

# Below is generated by plot.py at 2018-08-03 09:37:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 880.41 Mbit/s

95th percentile per-packet one-way delay: 89.825 ms

Loss rate: 0.15%

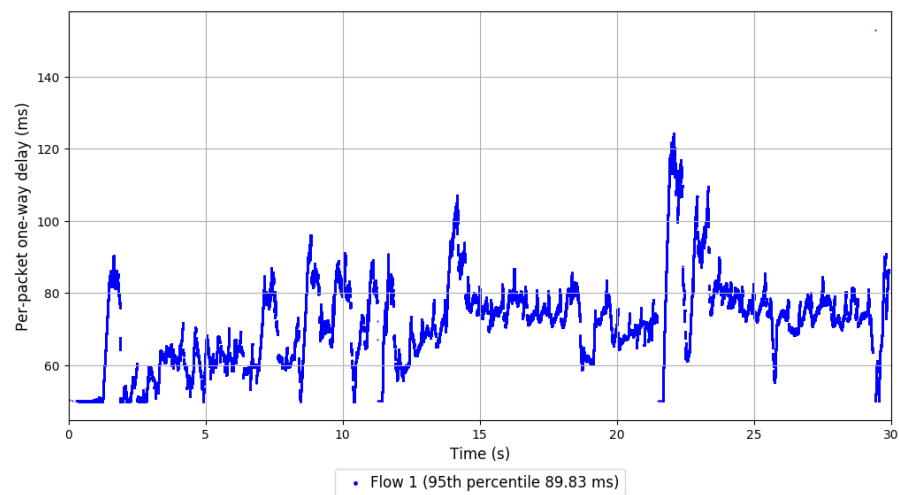
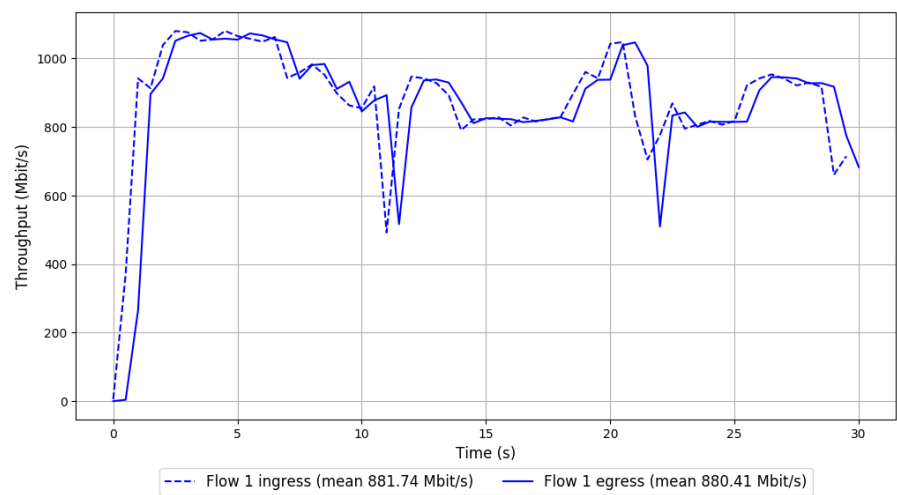
-- Flow 1:

Average throughput: 880.41 Mbit/s

95th percentile per-packet one-way delay: 89.825 ms

Loss rate: 0.15%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-08-03 08:04:54

End at: 2018-08-03 08:05:24

Local clock offset: 0.006 ms

Remote clock offset: -0.45 ms

# Below is generated by plot.py at 2018-08-03 09:37:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 876.44 Mbit/s

95th percentile per-packet one-way delay: 98.140 ms

Loss rate: 0.14%

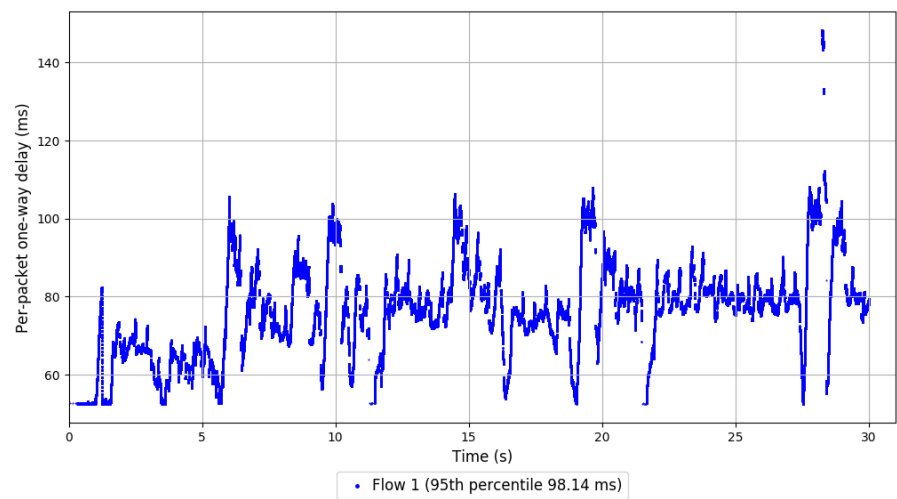
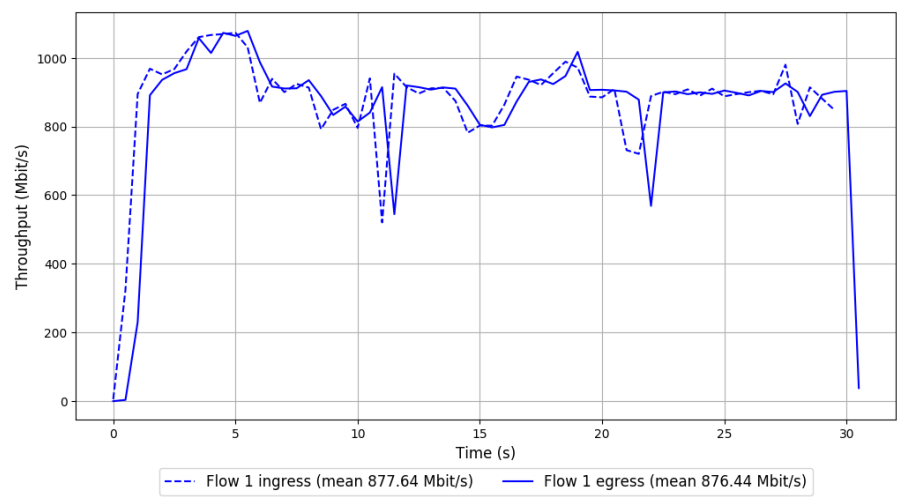
-- Flow 1:

Average throughput: 876.44 Mbit/s

95th percentile per-packet one-way delay: 98.140 ms

Loss rate: 0.14%

Run 10: Report of FillP-Sheep — Data Link

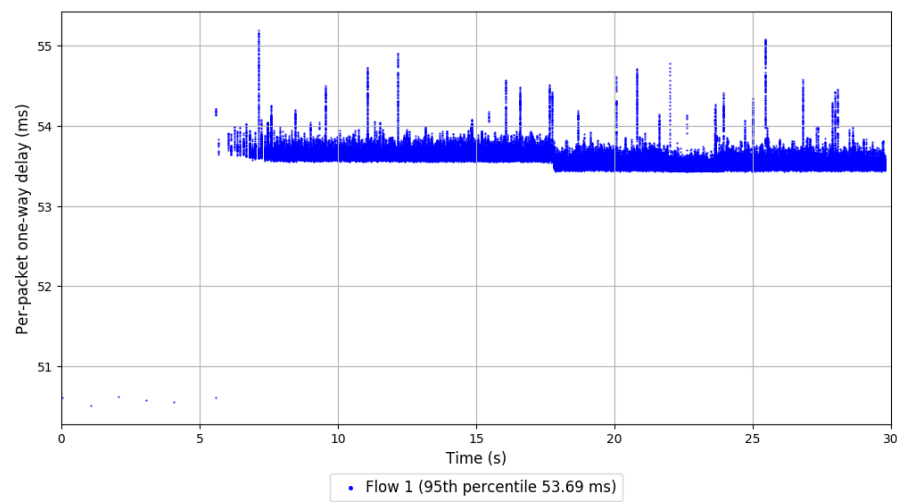
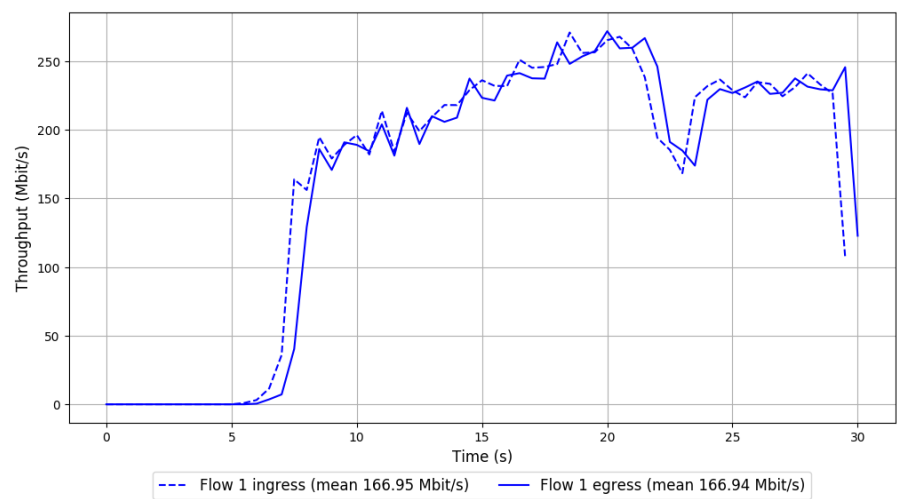


Run 1: Statistics of Indigo

Start at: 2018-08-03 04:55:35  
End at: 2018-08-03 04:56:05  
Local clock offset: -0.001 ms  
Remote clock offset: -0.167 ms

# Below is generated by plot.py at 2018-08-03 09:37:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 166.94 Mbit/s  
95th percentile per-packet one-way delay: 53.692 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 166.94 Mbit/s  
95th percentile per-packet one-way delay: 53.692 ms  
Loss rate: 0.00%

Run 1: Report of Indigo — Data Link

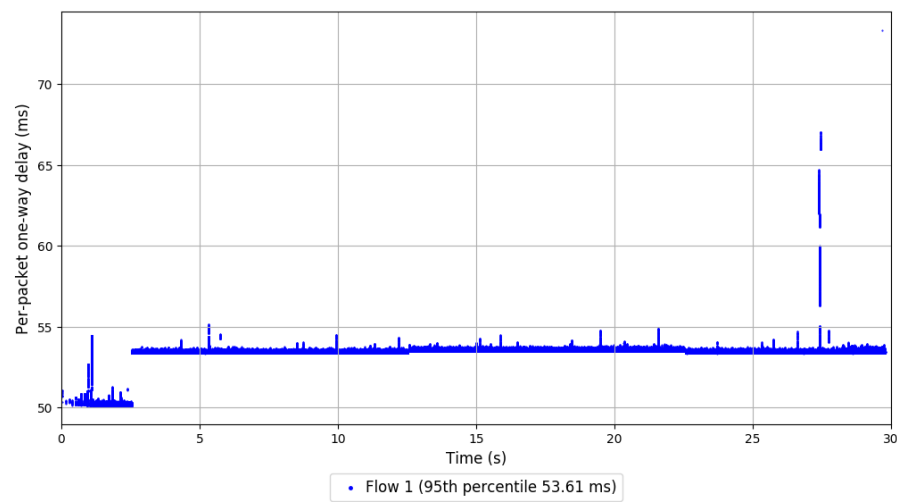
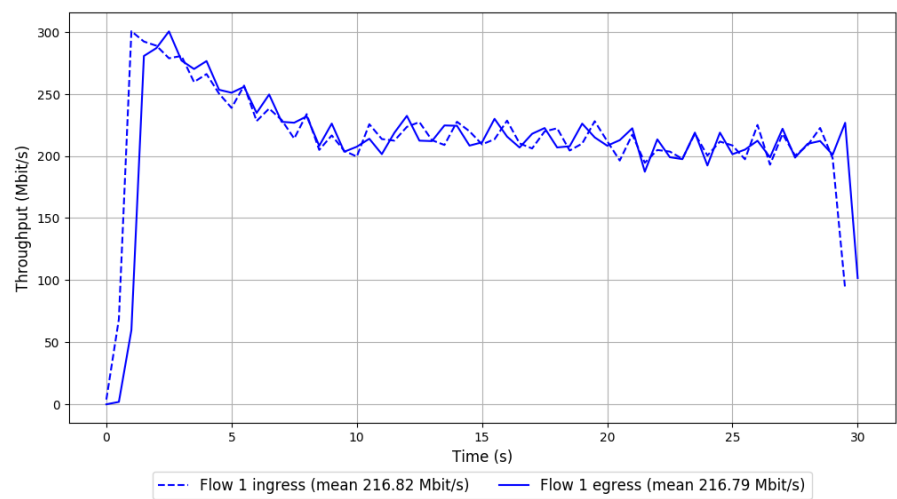


Run 2: Statistics of Indigo

Start at: 2018-08-03 05:18:10  
End at: 2018-08-03 05:18:40  
Local clock offset: -0.016 ms  
Remote clock offset: -0.216 ms

# Below is generated by plot.py at 2018-08-03 09:37:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 216.79 Mbit/s  
95th percentile per-packet one-way delay: 53.610 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 216.79 Mbit/s  
95th percentile per-packet one-way delay: 53.610 ms  
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

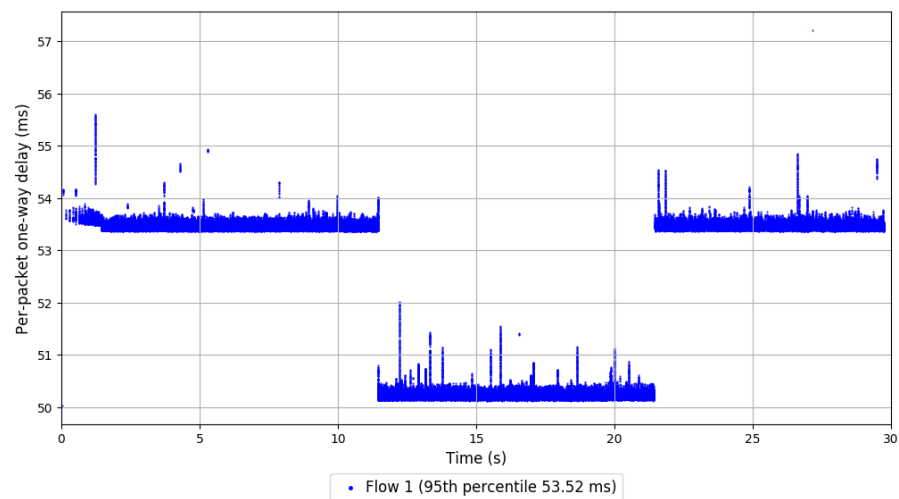
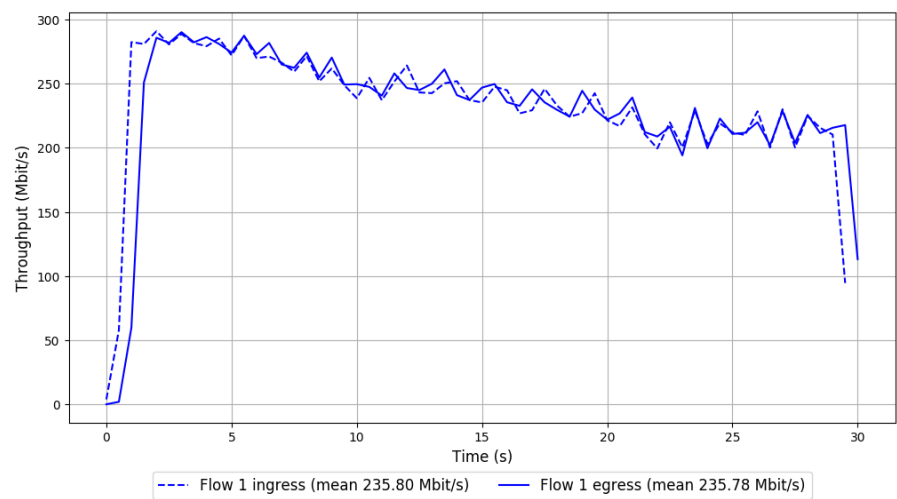


Run 3: Statistics of Indigo

Start at: 2018-08-03 05:40:41  
End at: 2018-08-03 05:41:11  
Local clock offset: 0.015 ms  
Remote clock offset: -0.169 ms

# Below is generated by plot.py at 2018-08-03 09:37:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 235.78 Mbit/s  
95th percentile per-packet one-way delay: 53.521 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 235.78 Mbit/s  
95th percentile per-packet one-way delay: 53.521 ms  
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-08-03 06:02:24

End at: 2018-08-03 06:02:54

Local clock offset: 0.19 ms

Remote clock offset: -1.56 ms

# Below is generated by plot.py at 2018-08-03 09:37:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 235.57 Mbit/s

95th percentile per-packet one-way delay: 52.019 ms

Loss rate: 0.00%

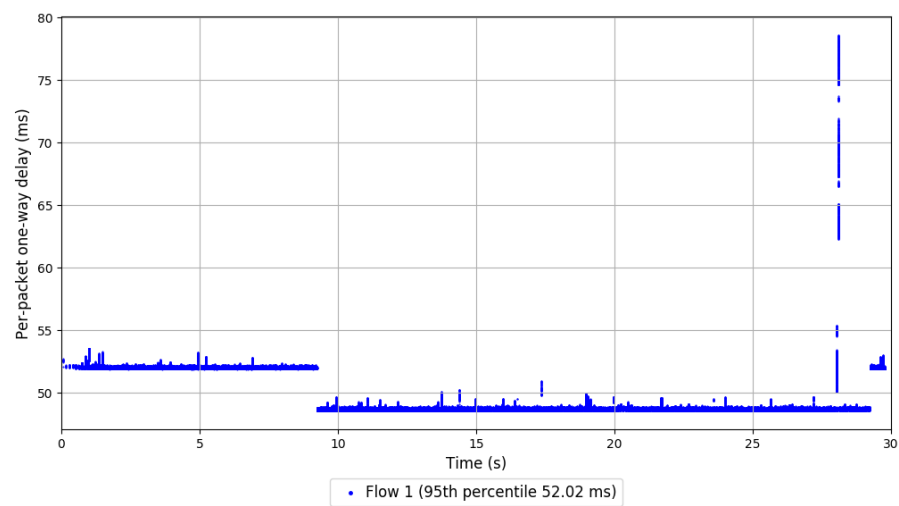
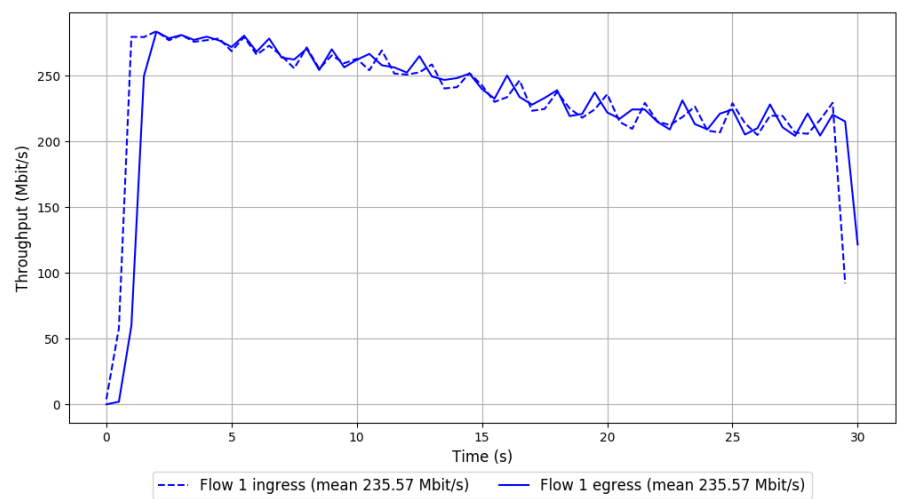
-- Flow 1:

Average throughput: 235.57 Mbit/s

95th percentile per-packet one-way delay: 52.019 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-08-03 06:24:54

End at: 2018-08-03 06:25:24

Local clock offset: 0.006 ms

Remote clock offset: -0.243 ms

# Below is generated by plot.py at 2018-08-03 09:37:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 243.92 Mbit/s

95th percentile per-packet one-way delay: 53.535 ms

Loss rate: 0.00%

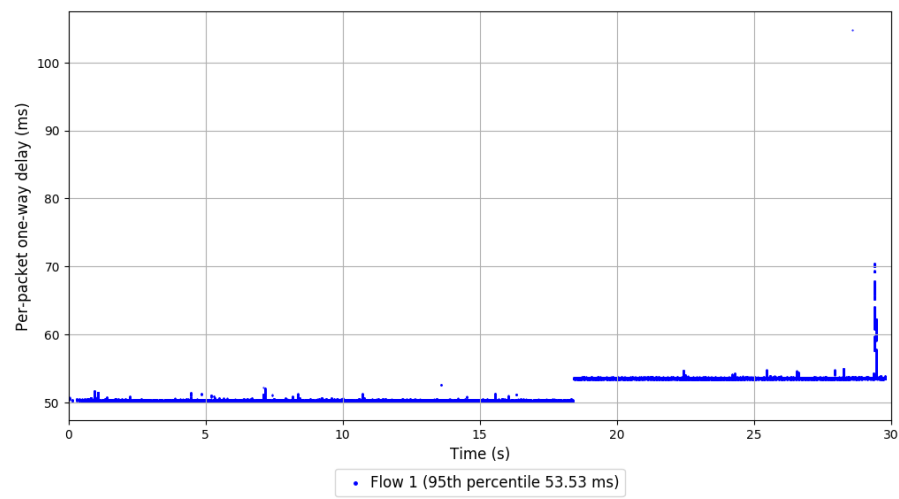
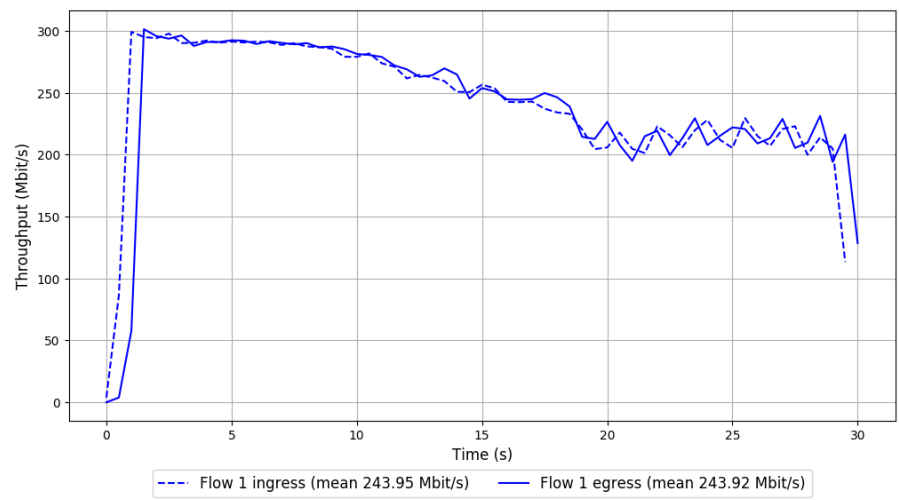
-- Flow 1:

Average throughput: 243.92 Mbit/s

95th percentile per-packet one-way delay: 53.535 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-08-03 06:46:56

End at: 2018-08-03 06:47:26

Local clock offset: 0.063 ms

Remote clock offset: -1.629 ms

# Below is generated by plot.py at 2018-08-03 09:37:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 235.95 Mbit/s

95th percentile per-packet one-way delay: 52.147 ms

Loss rate: 0.00%

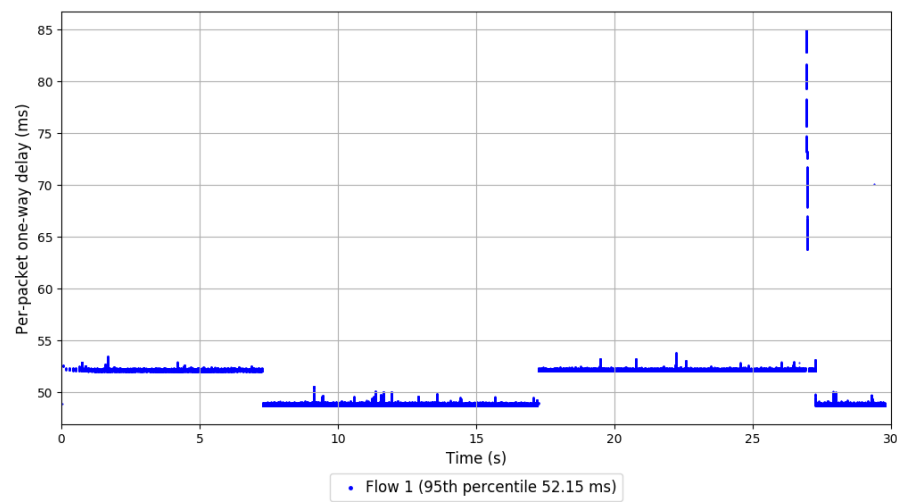
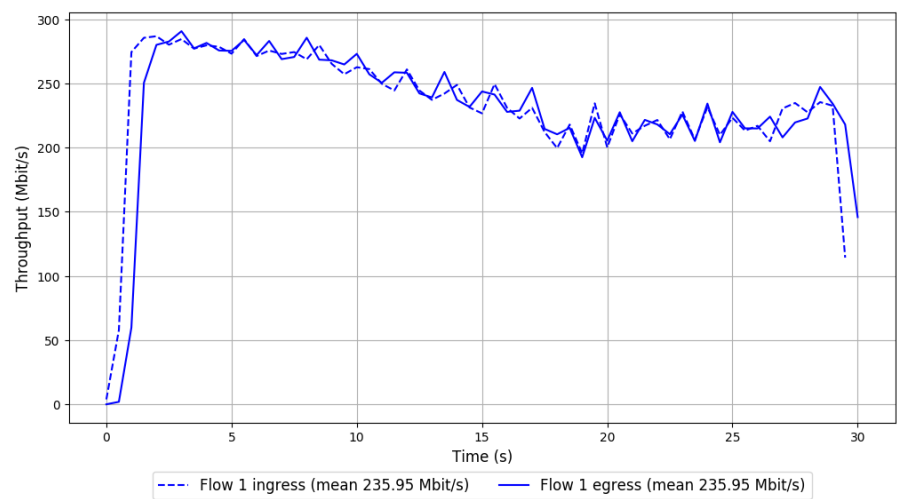
-- Flow 1:

Average throughput: 235.95 Mbit/s

95th percentile per-packet one-way delay: 52.147 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-08-03 07:08:56

End at: 2018-08-03 07:09:26

Local clock offset: 0.277 ms

Remote clock offset: -0.385 ms

# Below is generated by plot.py at 2018-08-03 09:37:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 241.16 Mbit/s

95th percentile per-packet one-way delay: 53.047 ms

Loss rate: 0.00%

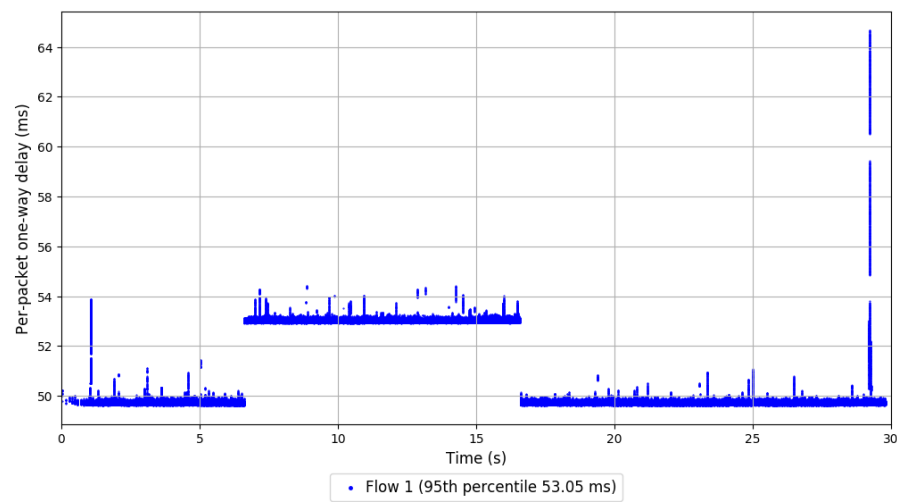
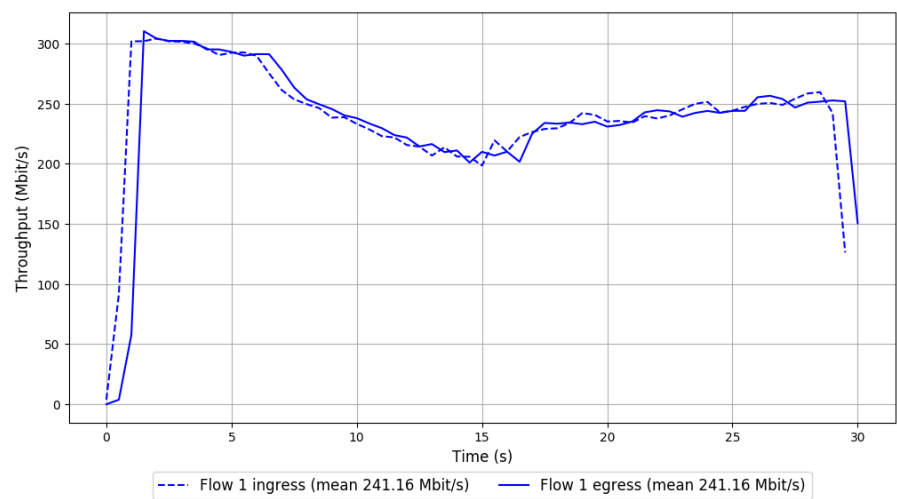
-- Flow 1:

Average throughput: 241.16 Mbit/s

95th percentile per-packet one-way delay: 53.047 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link

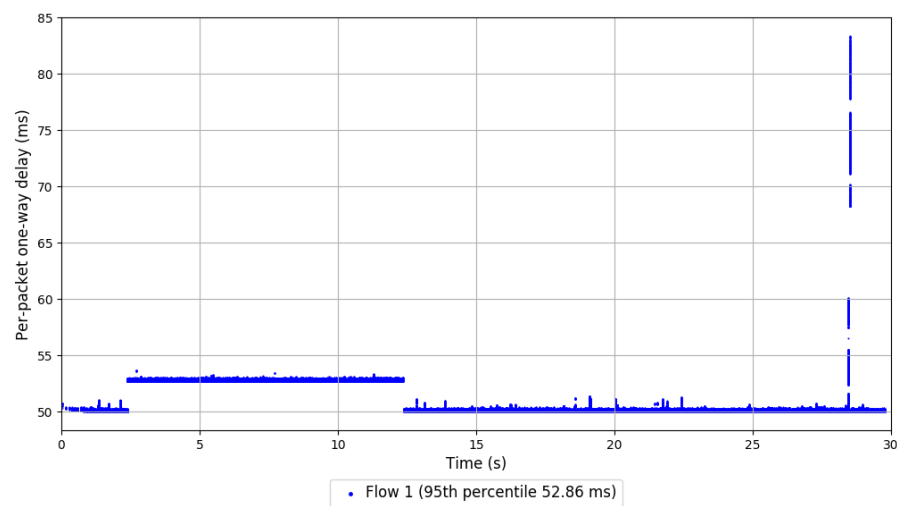
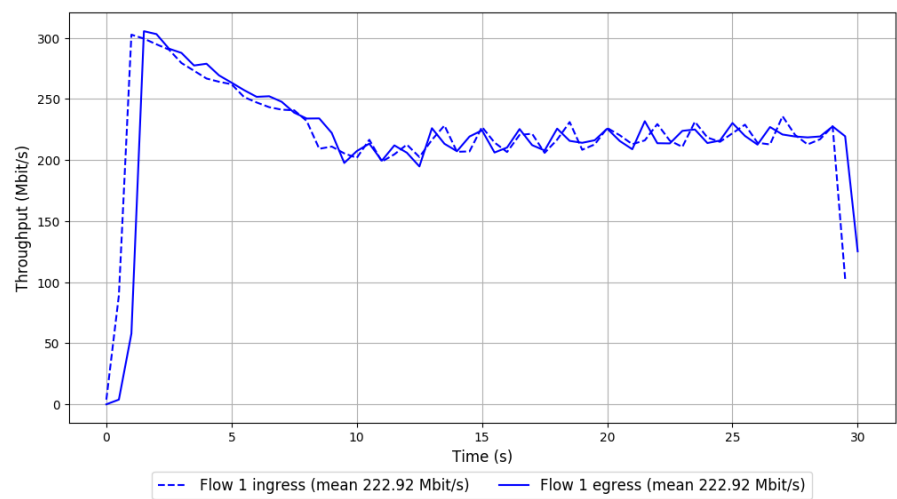


Run 8: Statistics of Indigo

Start at: 2018-08-03 07:31:30  
End at: 2018-08-03 07:32:01  
Local clock offset: -0.001 ms  
Remote clock offset: -0.195 ms

# Below is generated by plot.py at 2018-08-03 09:37:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 222.92 Mbit/s  
95th percentile per-packet one-way delay: 52.857 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 222.92 Mbit/s  
95th percentile per-packet one-way delay: 52.857 ms  
Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-08-03 07:53:32

End at: 2018-08-03 07:54:02

Local clock offset: -0.02 ms

Remote clock offset: -1.378 ms

# Below is generated by plot.py at 2018-08-03 09:37:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 230.54 Mbit/s

95th percentile per-packet one-way delay: 52.253 ms

Loss rate: 0.00%

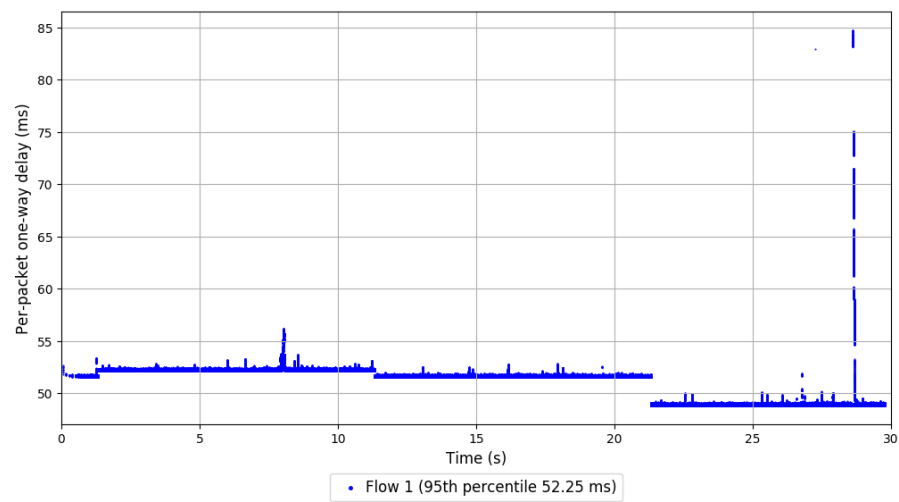
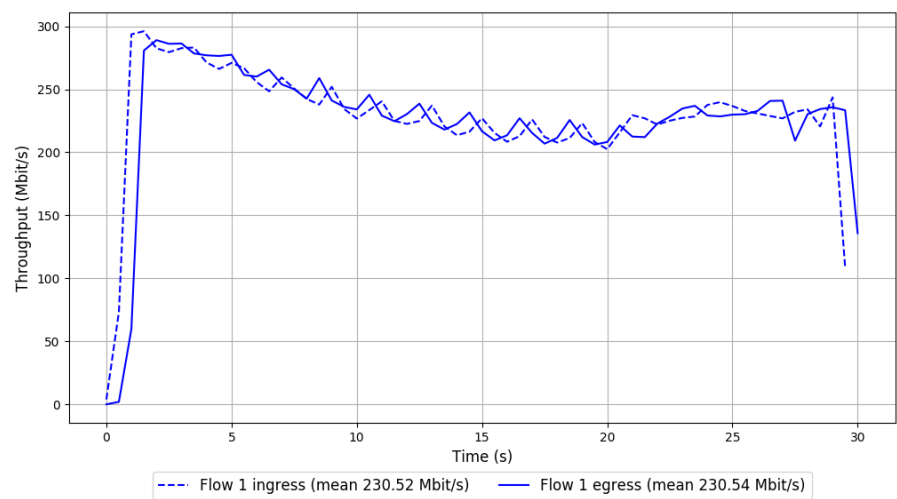
-- Flow 1:

Average throughput: 230.54 Mbit/s

95th percentile per-packet one-way delay: 52.253 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link

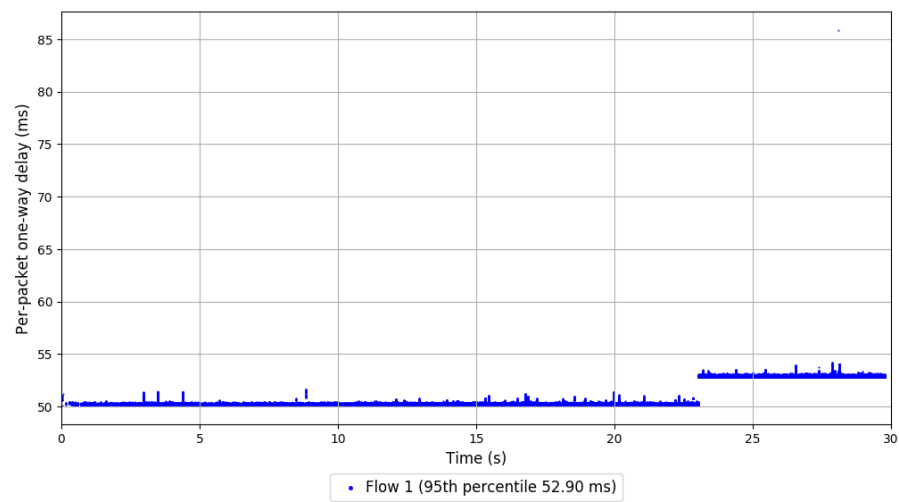
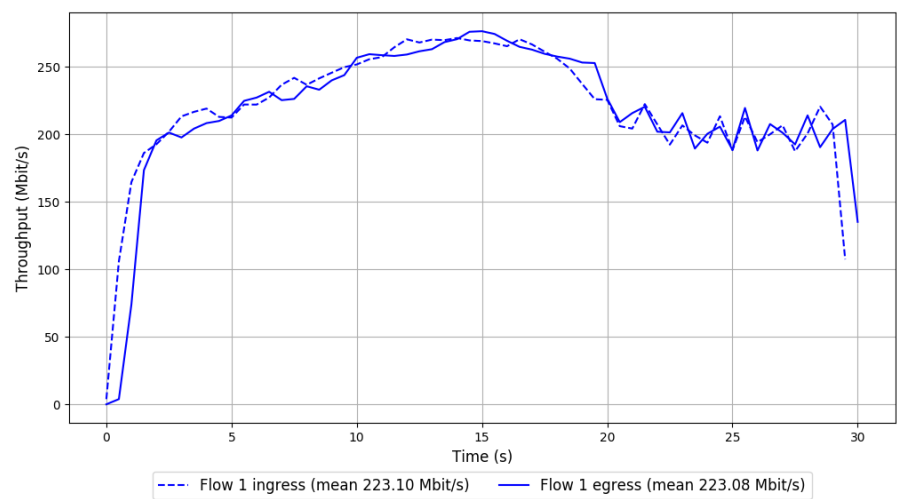


Run 10: Statistics of Indigo

Start at: 2018-08-03 08:16:00  
End at: 2018-08-03 08:16:30  
Local clock offset: -0.094 ms  
Remote clock offset: -0.212 ms

# Below is generated by plot.py at 2018-08-03 09:37:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 223.08 Mbit/s  
95th percentile per-packet one-way delay: 52.899 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 223.08 Mbit/s  
95th percentile per-packet one-way delay: 52.899 ms  
Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

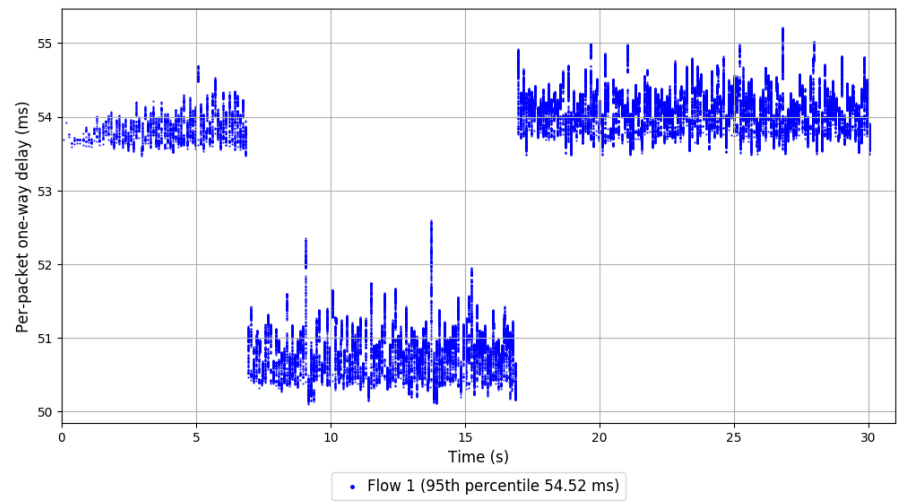
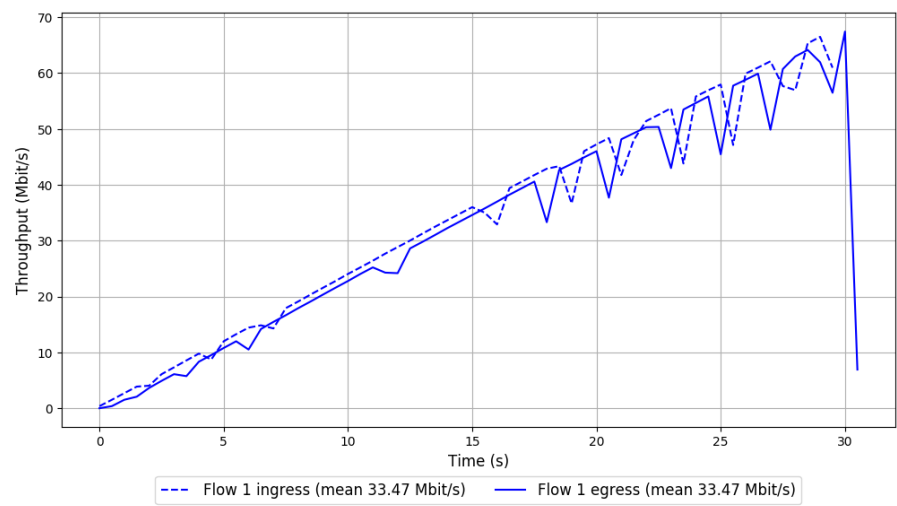


Run 1: Statistics of LEDBAT

Start at: 2018-08-03 04:58:06  
End at: 2018-08-03 04:58:36  
Local clock offset: -0.047 ms  
Remote clock offset: -0.305 ms

# Below is generated by plot.py at 2018-08-03 09:37:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 33.47 Mbit/s  
95th percentile per-packet one-way delay: 54.521 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 33.47 Mbit/s  
95th percentile per-packet one-way delay: 54.521 ms  
Loss rate: 0.00%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-08-03 05:20:39

End at: 2018-08-03 05:21:09

Local clock offset: 0.032 ms

Remote clock offset: 0.094 ms

# Below is generated by plot.py at 2018-08-03 09:37:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 31.53 Mbit/s

95th percentile per-packet one-way delay: 54.692 ms

Loss rate: 0.00%

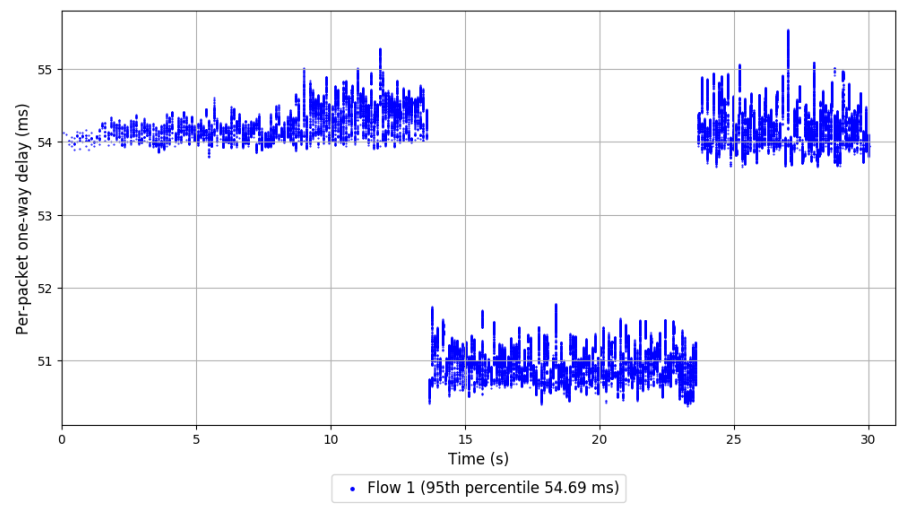
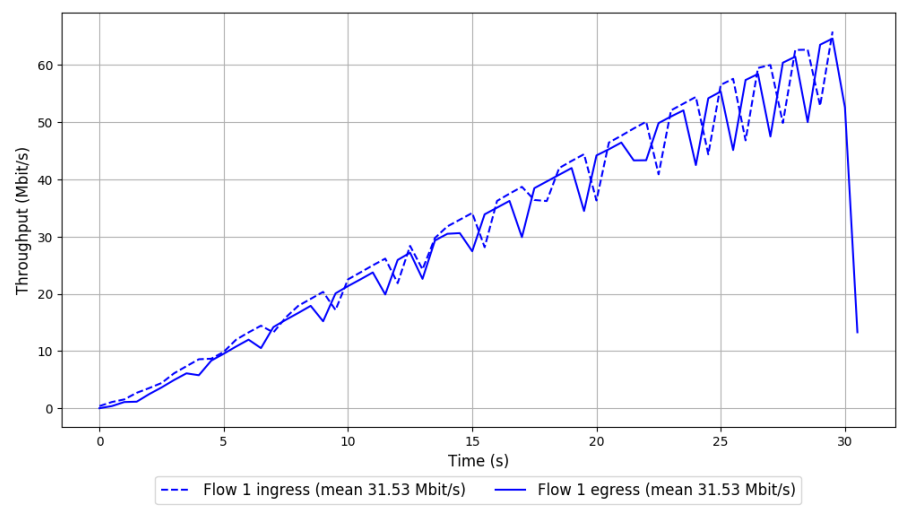
-- Flow 1:

Average throughput: 31.53 Mbit/s

95th percentile per-packet one-way delay: 54.692 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-08-03 05:43:08

End at: 2018-08-03 05:43:38

Local clock offset: -0.08 ms

Remote clock offset: 1.133 ms

# Below is generated by plot.py at 2018-08-03 09:37:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 32.86 Mbit/s

95th percentile per-packet one-way delay: 55.757 ms

Loss rate: 0.00%

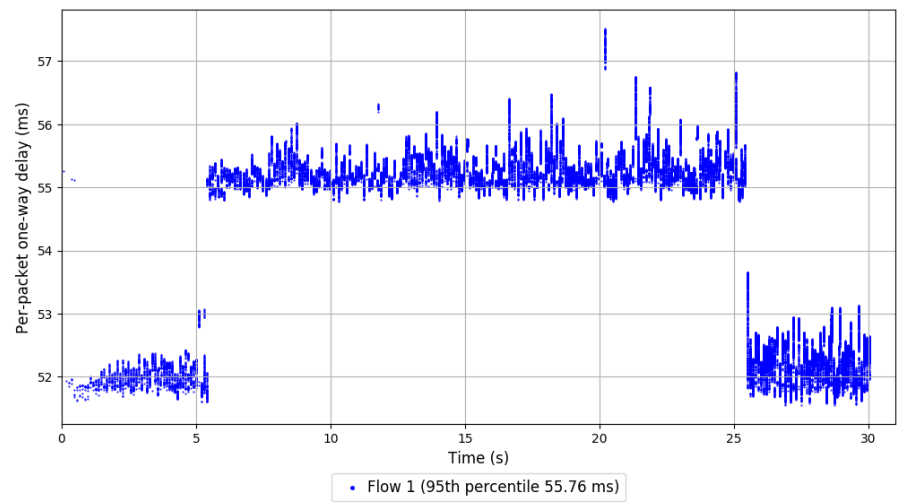
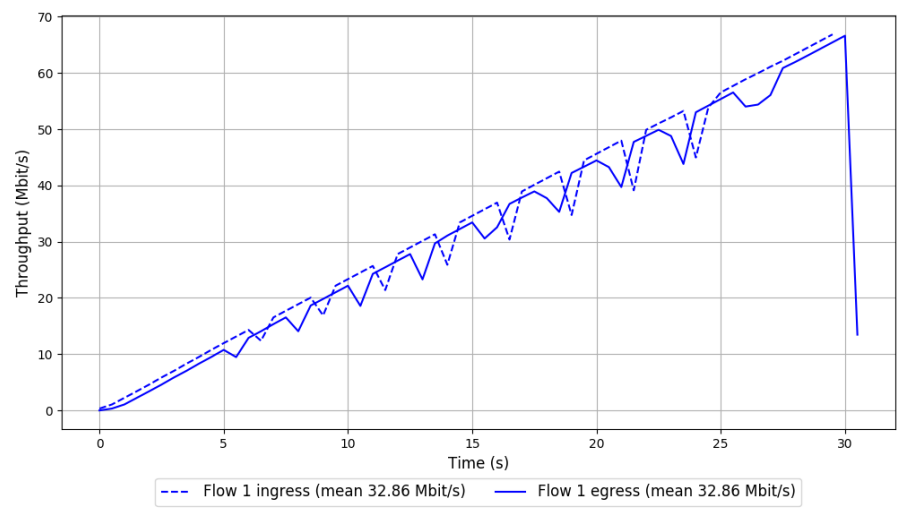
-- Flow 1:

Average throughput: 32.86 Mbit/s

95th percentile per-packet one-way delay: 55.757 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

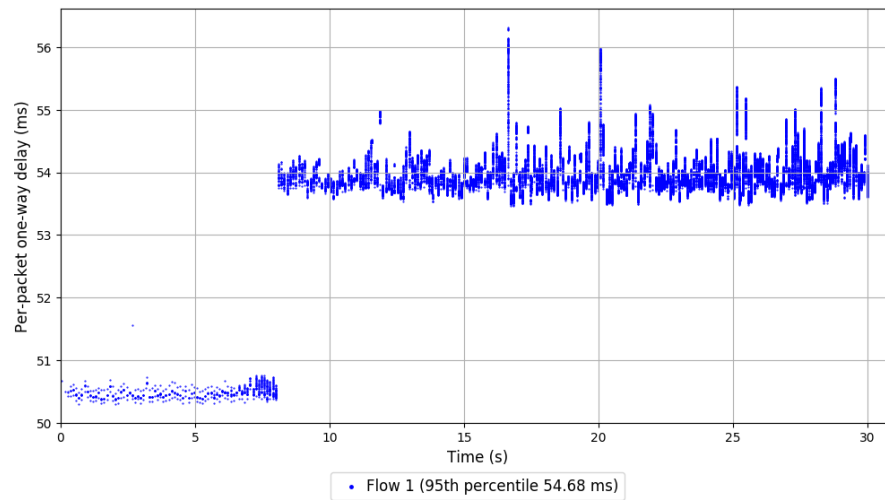
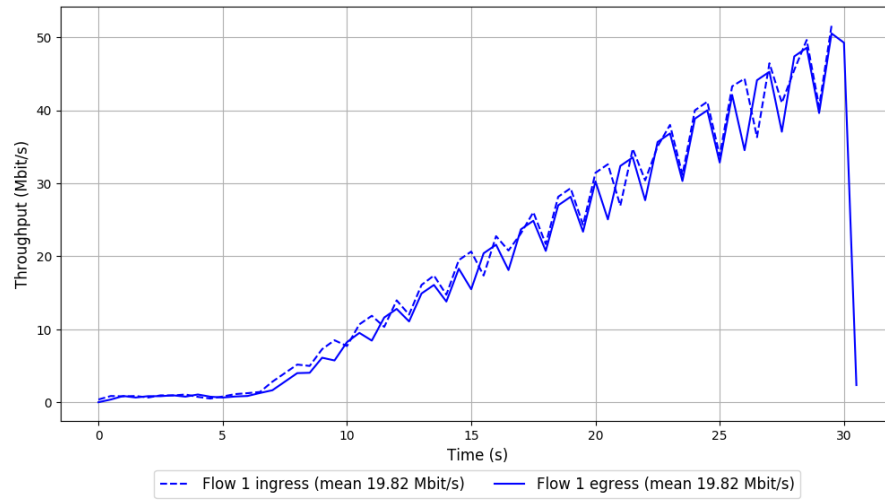


Run 4: Statistics of LEDBAT

Start at: 2018-08-03 06:04:55  
End at: 2018-08-03 06:05:25  
Local clock offset: -0.152 ms  
Remote clock offset: -0.335 ms

# Below is generated by plot.py at 2018-08-03 09:37:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 19.82 Mbit/s  
95th percentile per-packet one-way delay: 54.676 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 19.82 Mbit/s  
95th percentile per-packet one-way delay: 54.676 ms  
Loss rate: 0.00%

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



Run 5: Statistics of LEDBAT

Start at: 2018-08-03 06:27:23

End at: 2018-08-03 06:27:53

Local clock offset: 0.058 ms

Remote clock offset: -1.59 ms

# Below is generated by plot.py at 2018-08-03 09:37:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 33.27 Mbit/s

95th percentile per-packet one-way delay: 52.416 ms

Loss rate: 0.00%

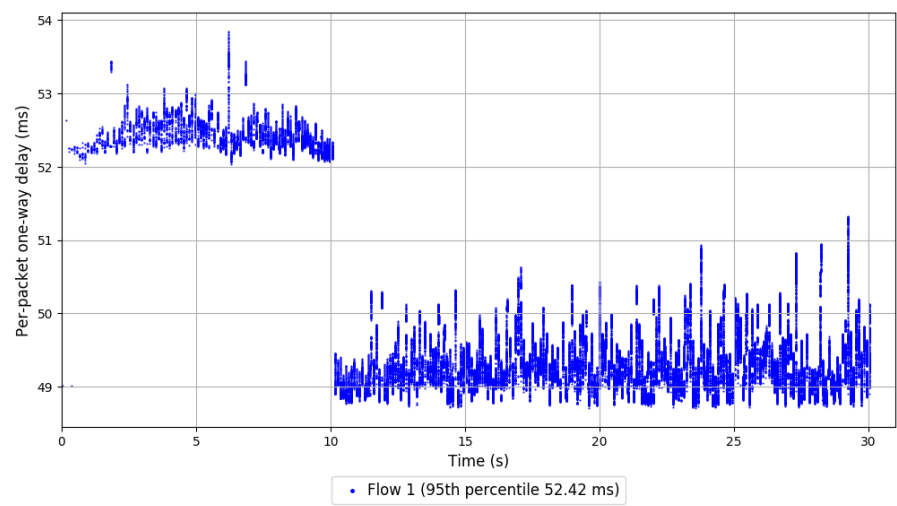
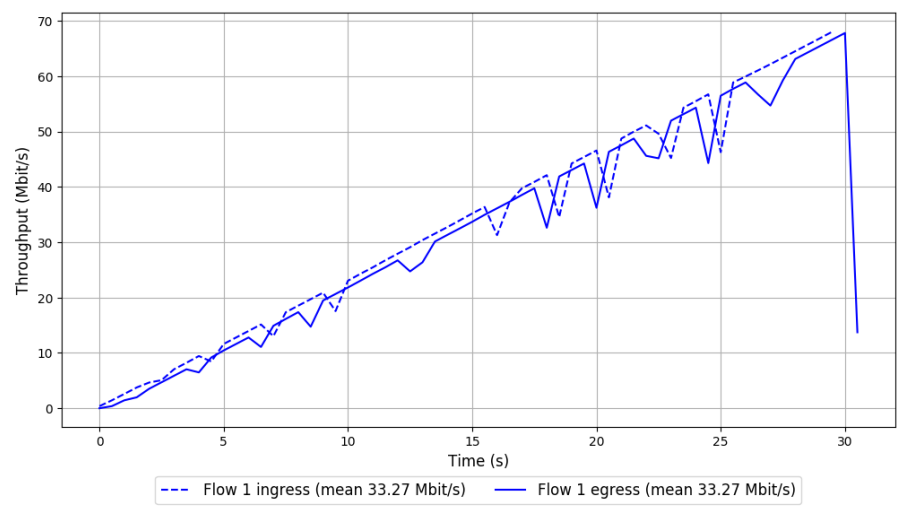
-- Flow 1:

Average throughput: 33.27 Mbit/s

95th percentile per-packet one-way delay: 52.416 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

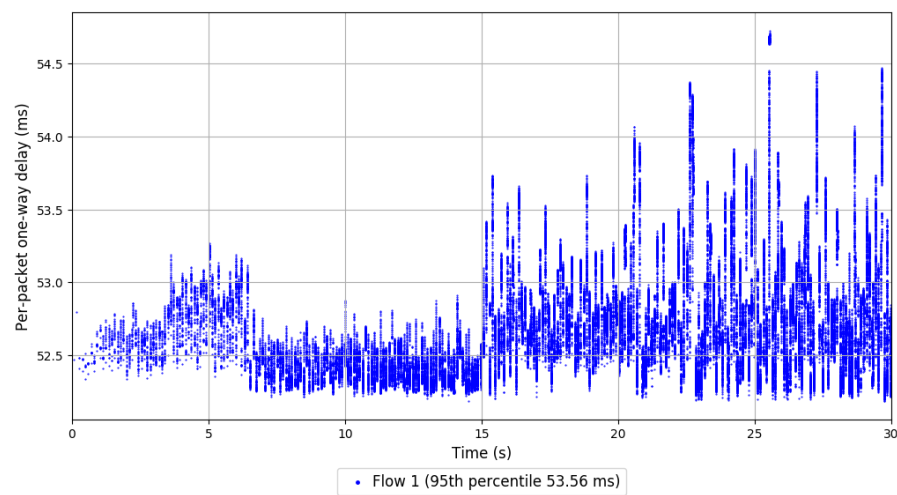
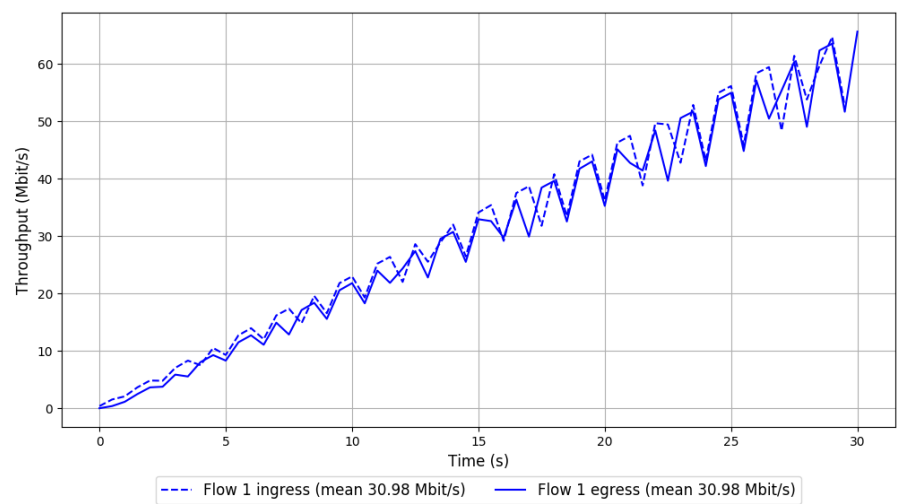


Run 6: Statistics of LEDBAT

Start at: 2018-08-03 06:49:23  
End at: 2018-08-03 06:49:53  
Local clock offset: 0.014 ms  
Remote clock offset: -1.496 ms

# Below is generated by plot.py at 2018-08-03 09:37:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 30.98 Mbit/s  
95th percentile per-packet one-way delay: 53.557 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 30.98 Mbit/s  
95th percentile per-packet one-way delay: 53.557 ms  
Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

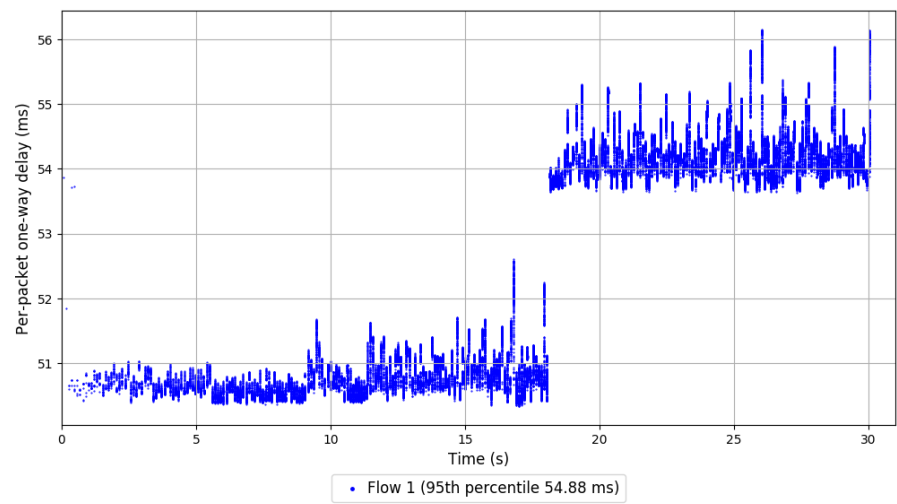
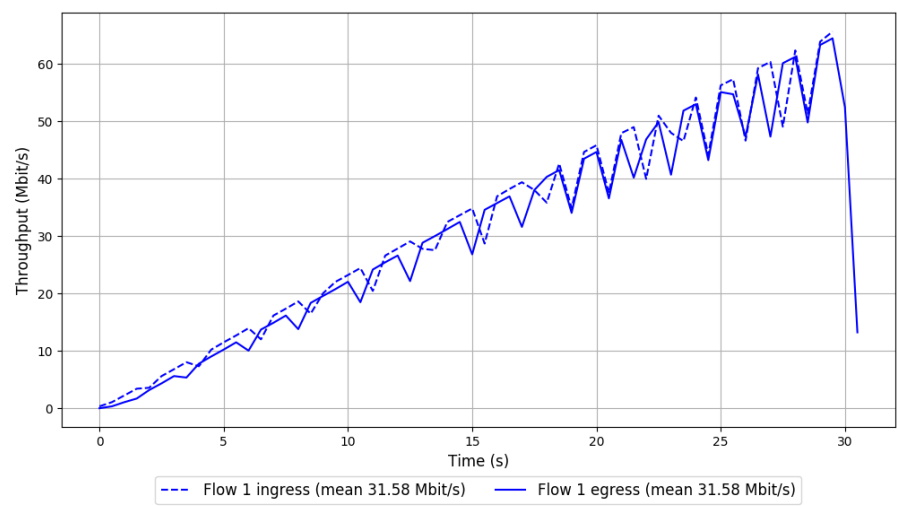


Run 7: Statistics of LEDBAT

Start at: 2018-08-03 07:11:25  
End at: 2018-08-03 07:11:55  
Local clock offset: -0.152 ms  
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2018-08-03 09:37:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 31.58 Mbit/s  
95th percentile per-packet one-way delay: 54.881 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 31.58 Mbit/s  
95th percentile per-packet one-way delay: 54.881 ms  
Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-08-03 07:33:56

End at: 2018-08-03 07:34:26

Local clock offset: -0.218 ms

Remote clock offset: -1.55 ms

# Below is generated by plot.py at 2018-08-03 09:37:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 32.78 Mbit/s

95th percentile per-packet one-way delay: 53.387 ms

Loss rate: 0.00%

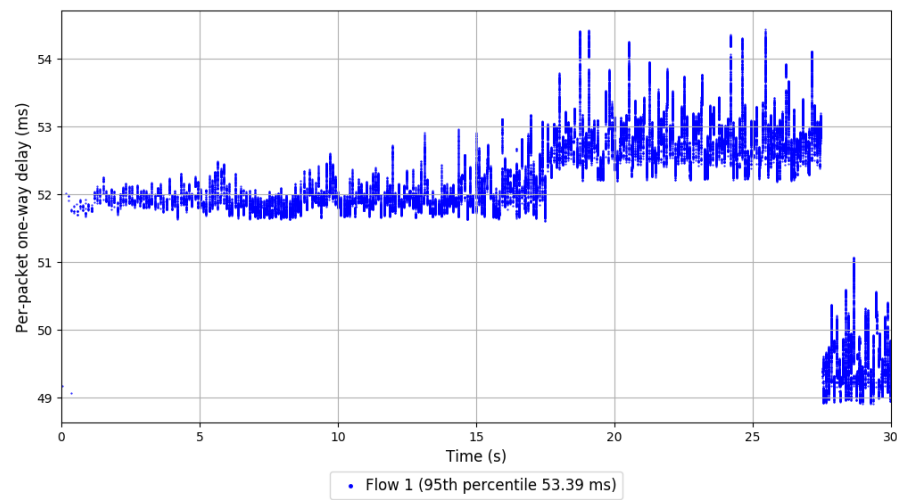
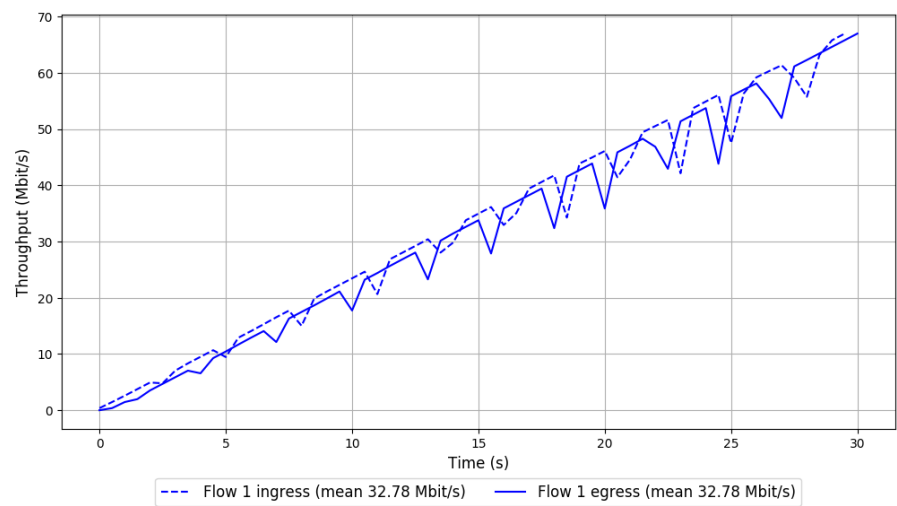
-- Flow 1:

Average throughput: 32.78 Mbit/s

95th percentile per-packet one-way delay: 53.387 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link

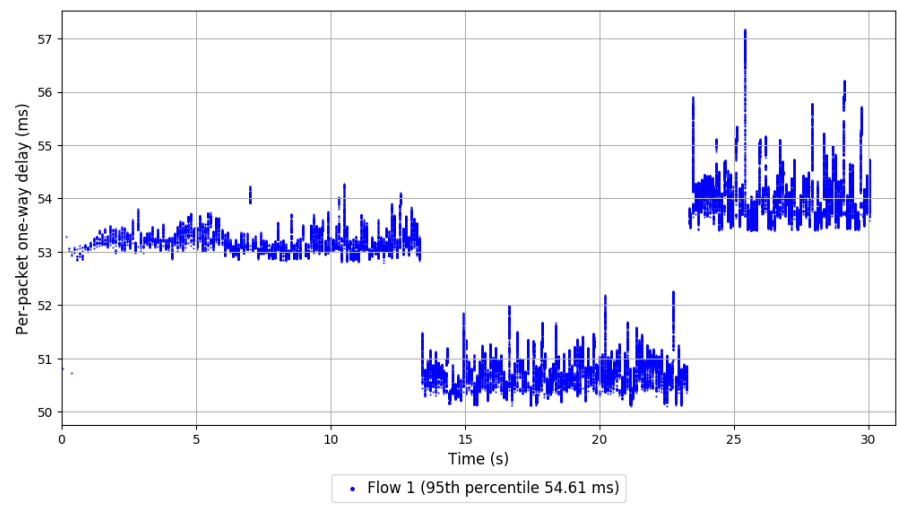
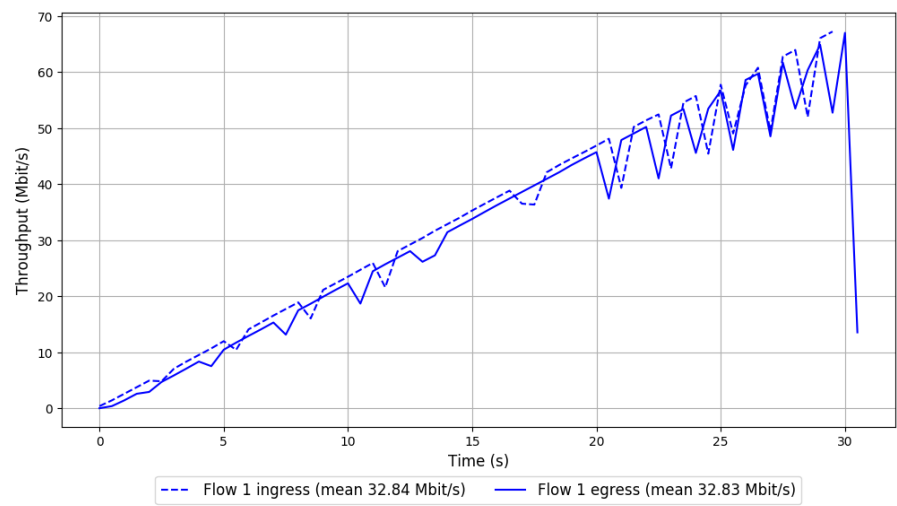


Run 9: Statistics of LEDBAT

Start at: 2018-08-03 07:56:00  
End at: 2018-08-03 07:56:30  
Local clock offset: 0.033 ms  
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2018-08-03 09:37:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 32.83 Mbit/s  
95th percentile per-packet one-way delay: 54.613 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 32.83 Mbit/s  
95th percentile per-packet one-way delay: 54.613 ms  
Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link

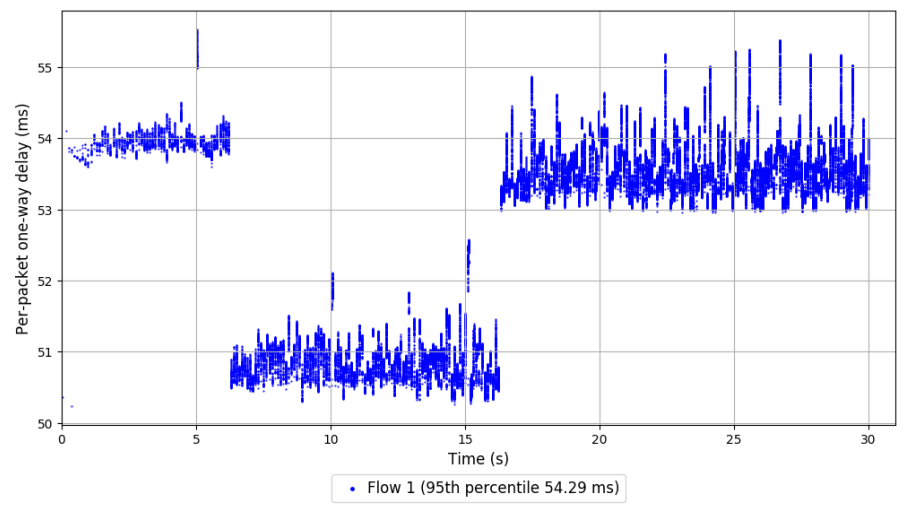
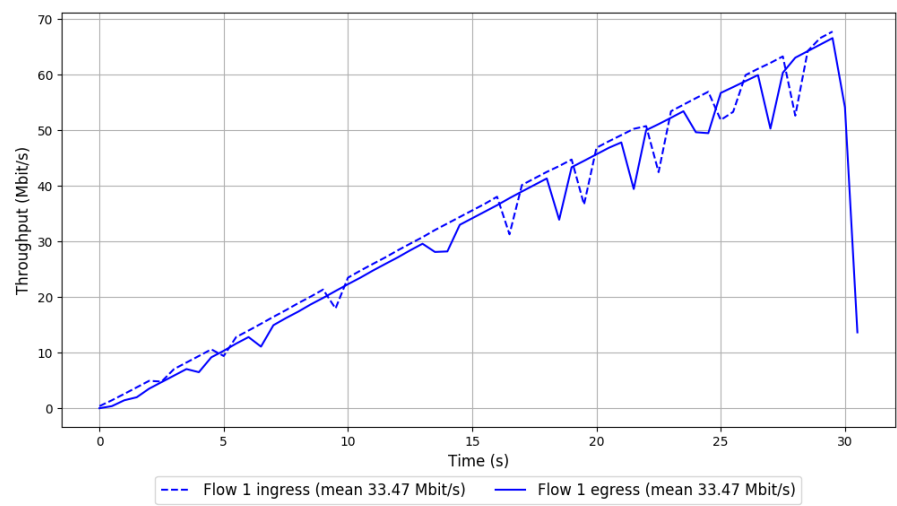


Run 10: Statistics of LEDBAT

Start at: 2018-08-03 08:18:27  
End at: 2018-08-03 08:18:57  
Local clock offset: -0.112 ms  
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2018-08-03 09:37:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 33.47 Mbit/s  
95th percentile per-packet one-way delay: 54.290 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 33.47 Mbit/s  
95th percentile per-packet one-way delay: 54.290 ms  
Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-08-03 04:43:07

End at: 2018-08-03 04:43:37

Local clock offset: -0.096 ms

Remote clock offset: -1.159 ms

# Below is generated by plot.py at 2018-08-03 09:42:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 710.78 Mbit/s

95th percentile per-packet one-way delay: 145.738 ms

Loss rate: 2.39%

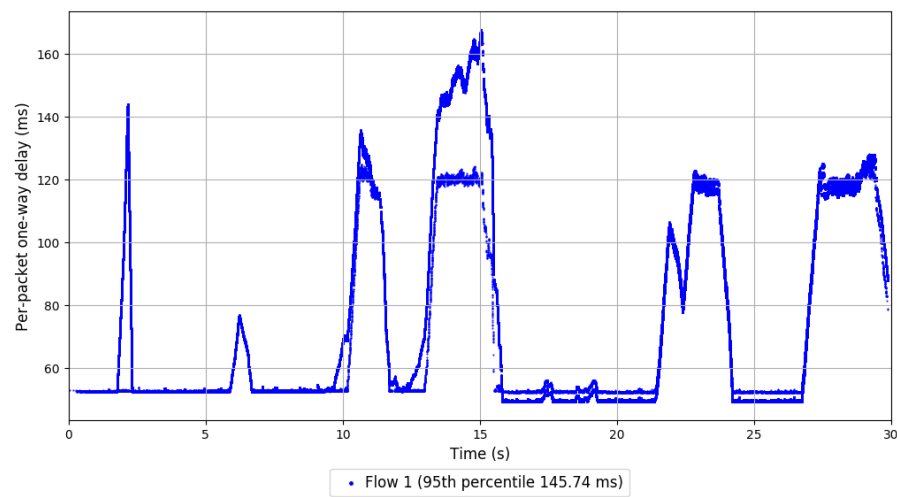
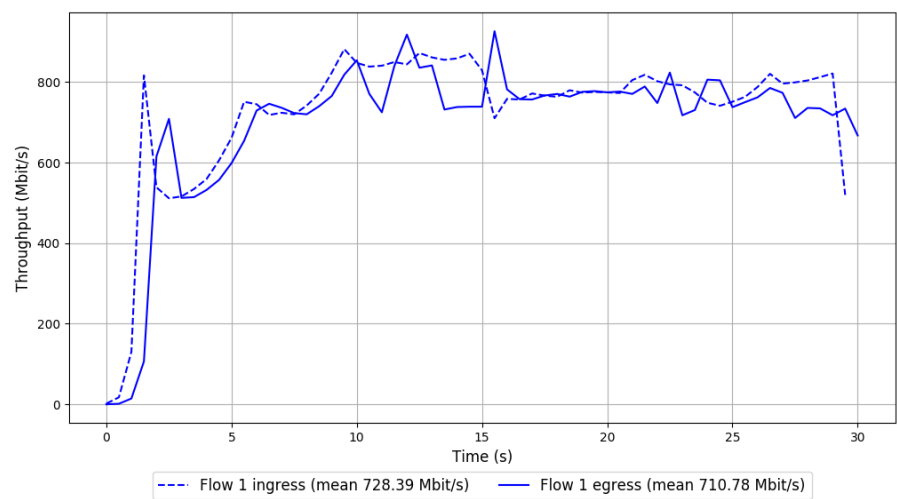
-- Flow 1:

Average throughput: 710.78 Mbit/s

95th percentile per-packet one-way delay: 145.738 ms

Loss rate: 2.39%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

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

End at: 2018-08-03 05:06:00

Local clock offset: 0.107 ms

Remote clock offset: -0.192 ms

# Below is generated by plot.py at 2018-08-03 09:42:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 608.47 Mbit/s

95th percentile per-packet one-way delay: 123.875 ms

Loss rate: 2.88%

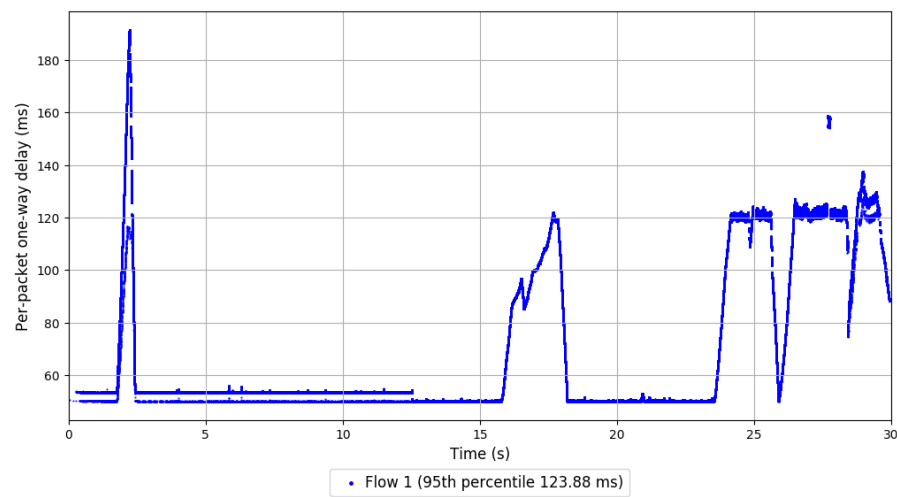
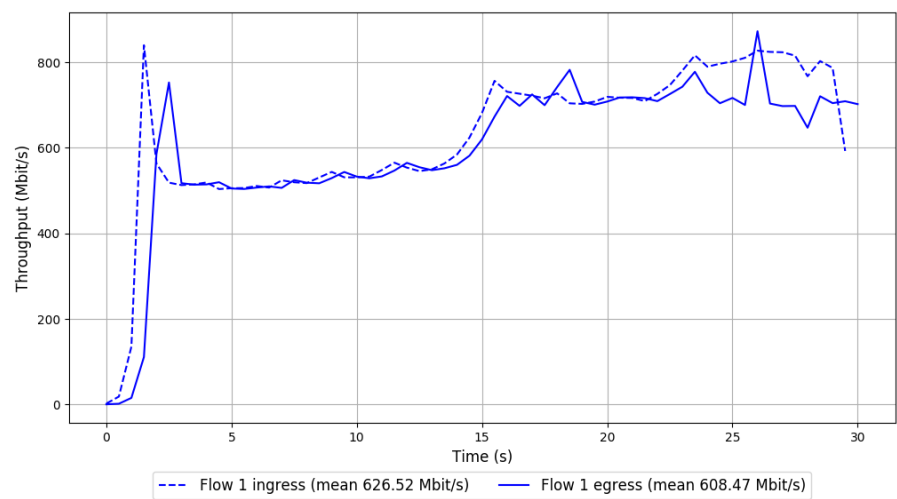
-- Flow 1:

Average throughput: 608.47 Mbit/s

95th percentile per-packet one-way delay: 123.875 ms

Loss rate: 2.88%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-08-03 05:28:03

End at: 2018-08-03 05:28:33

Local clock offset: 0.014 ms

Remote clock offset: -1.236 ms

# Below is generated by plot.py at 2018-08-03 09:43:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 747.83 Mbit/s

95th percentile per-packet one-way delay: 119.832 ms

Loss rate: 0.58%

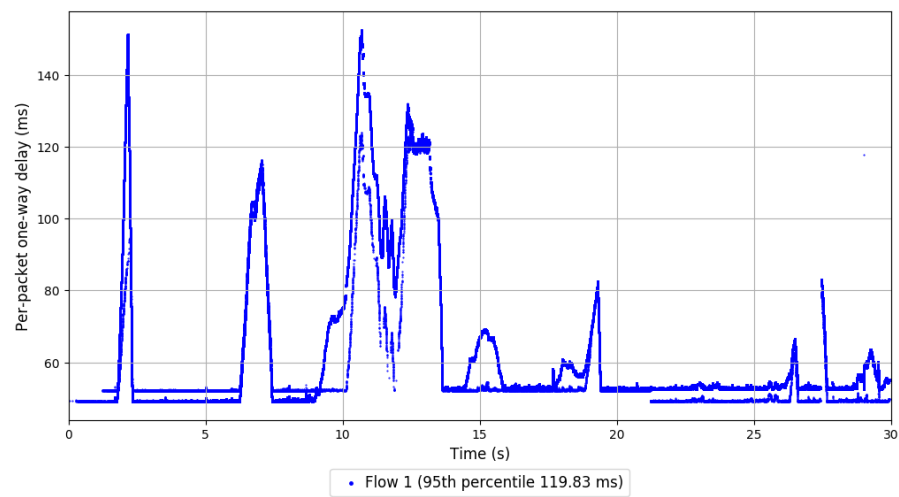
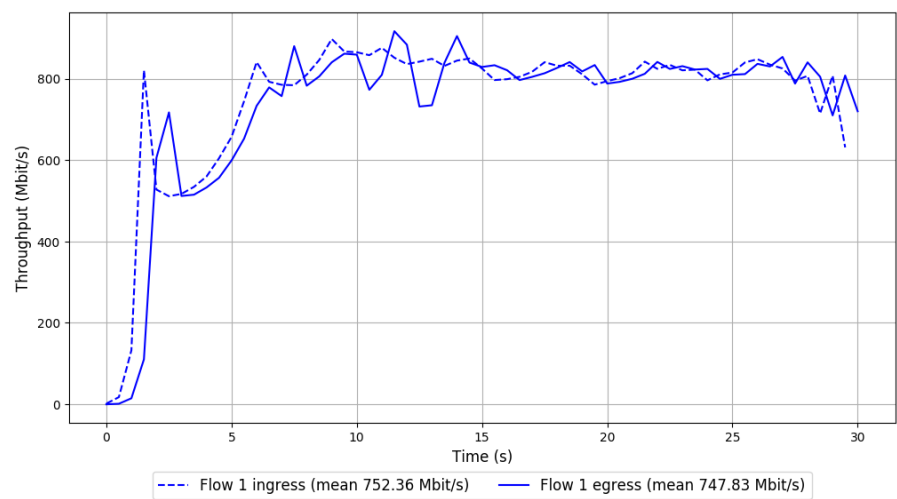
-- Flow 1:

Average throughput: 747.83 Mbit/s

95th percentile per-packet one-way delay: 119.832 ms

Loss rate: 0.58%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-08-03 05:50:38

End at: 2018-08-03 05:51:08

Local clock offset: 0.125 ms

Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2018-08-03 09:44:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 744.18 Mbit/s

95th percentile per-packet one-way delay: 143.020 ms

Loss rate: 0.77%

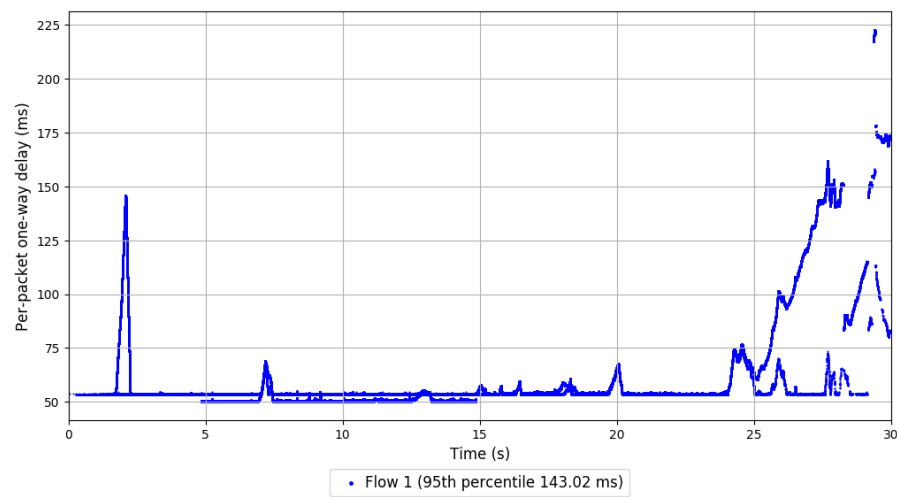
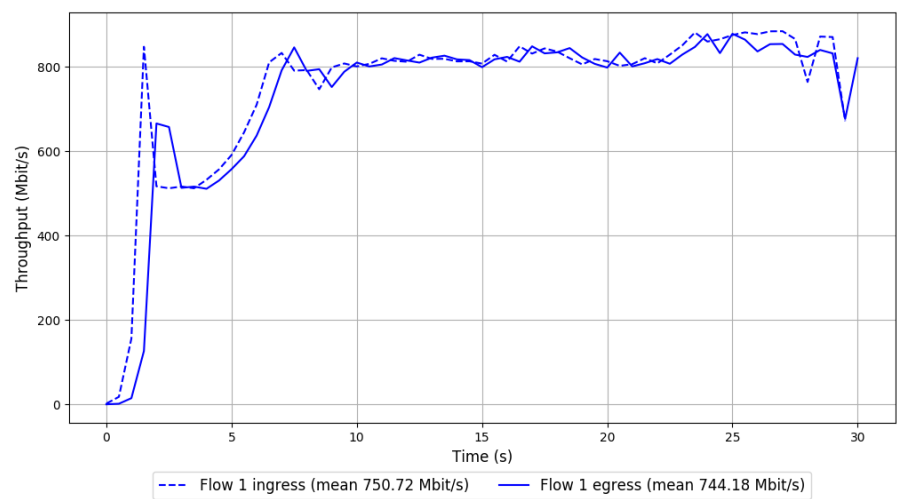
-- Flow 1:

Average throughput: 744.18 Mbit/s

95th percentile per-packet one-way delay: 143.020 ms

Loss rate: 0.77%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-08-03 06:12:18

End at: 2018-08-03 06:12:48

Local clock offset: -0.05 ms

Remote clock offset: -0.387 ms

# Below is generated by plot.py at 2018-08-03 09:47:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 709.69 Mbit/s

95th percentile per-packet one-way delay: 102.903 ms

Loss rate: 0.32%

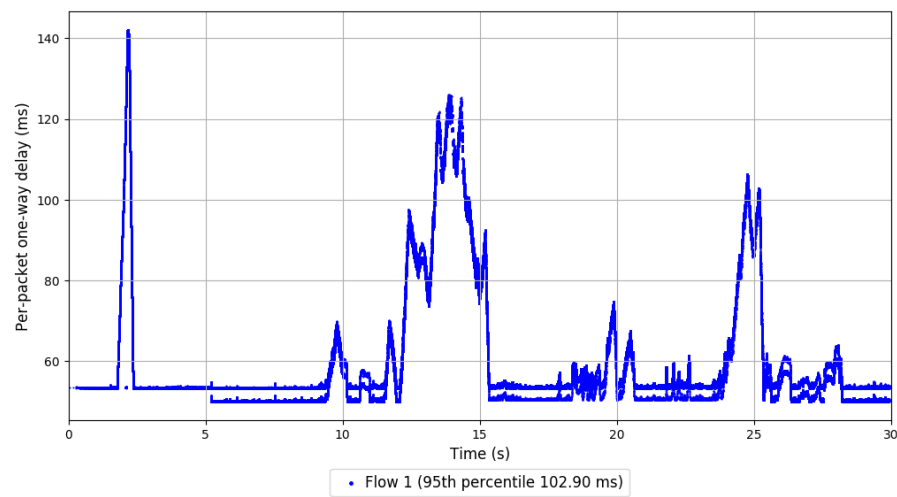
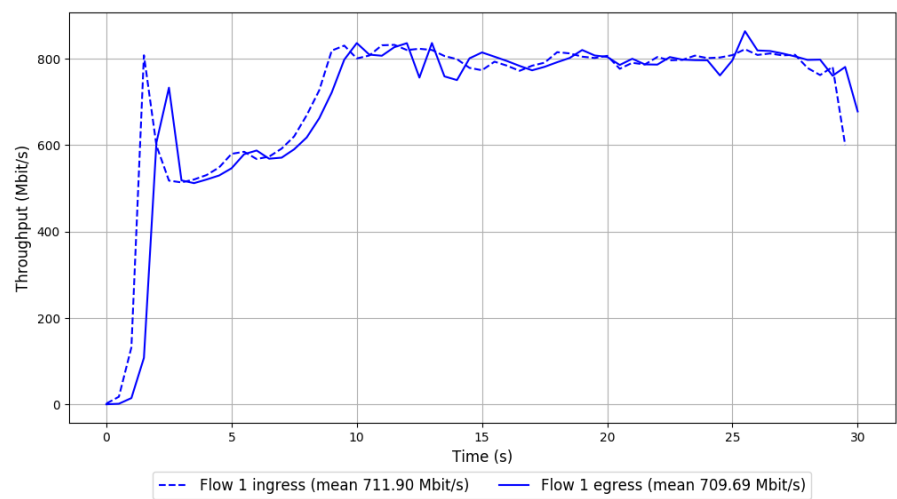
-- Flow 1:

Average throughput: 709.69 Mbit/s

95th percentile per-packet one-way delay: 102.903 ms

Loss rate: 0.32%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-08-03 06:34:51

End at: 2018-08-03 06:35:21

Local clock offset: 0.035 ms

Remote clock offset: -0.3 ms

# Below is generated by plot.py at 2018-08-03 09:48:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 740.83 Mbit/s

95th percentile per-packet one-way delay: 113.966 ms

Loss rate: 0.33%

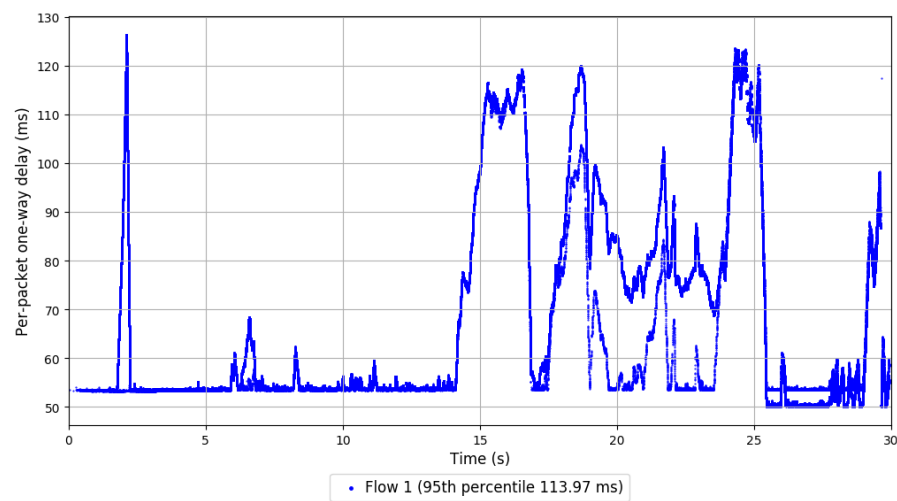
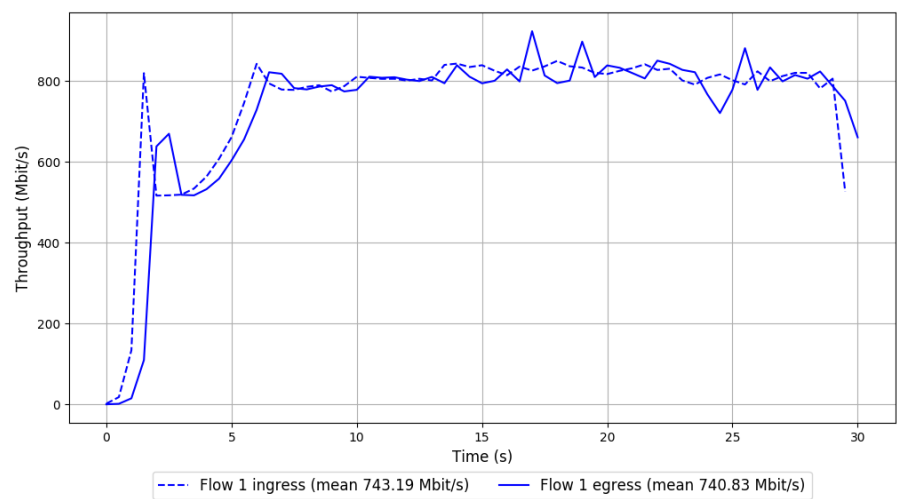
-- Flow 1:

Average throughput: 740.83 Mbit/s

95th percentile per-packet one-way delay: 113.966 ms

Loss rate: 0.33%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-08-03 06:56:46

End at: 2018-08-03 06:57:16

Local clock offset: -0.25 ms

Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2018-08-03 09:48:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 701.45 Mbit/s

95th percentile per-packet one-way delay: 119.217 ms

Loss rate: 0.60%

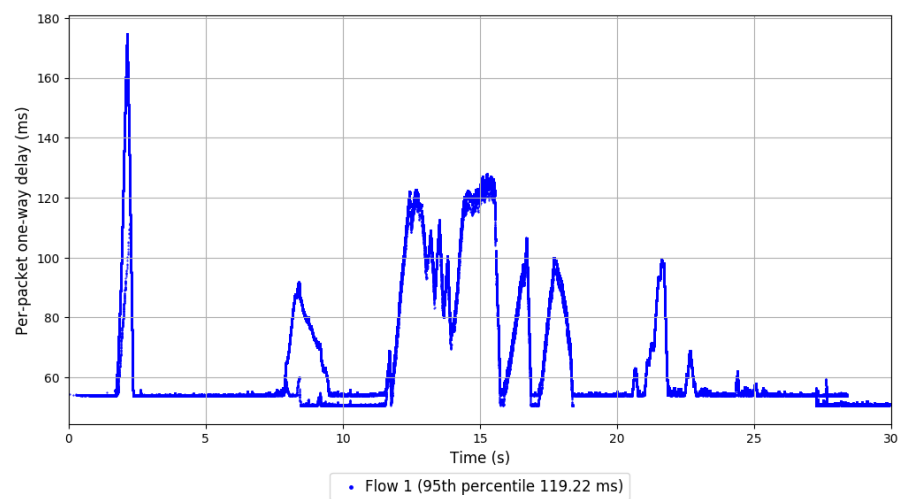
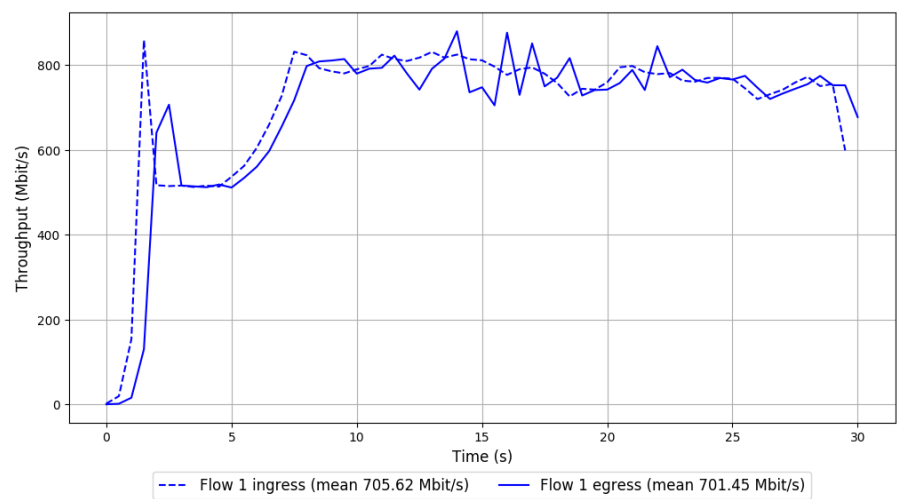
-- Flow 1:

Average throughput: 701.45 Mbit/s

95th percentile per-packet one-way delay: 119.217 ms

Loss rate: 0.60%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-08-03 07:18:49

End at: 2018-08-03 07:19:19

Local clock offset: 0.234 ms

Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2018-08-03 09:48:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 646.75 Mbit/s

95th percentile per-packet one-way delay: 110.873 ms

Loss rate: 0.36%

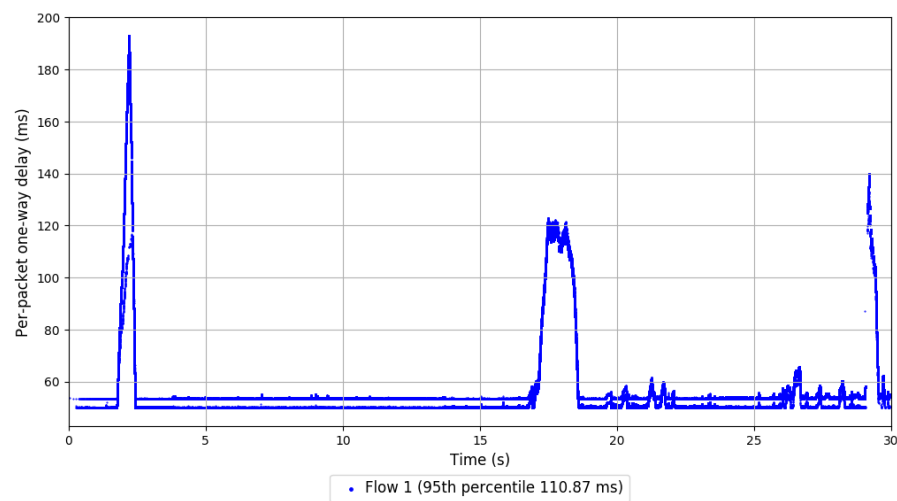
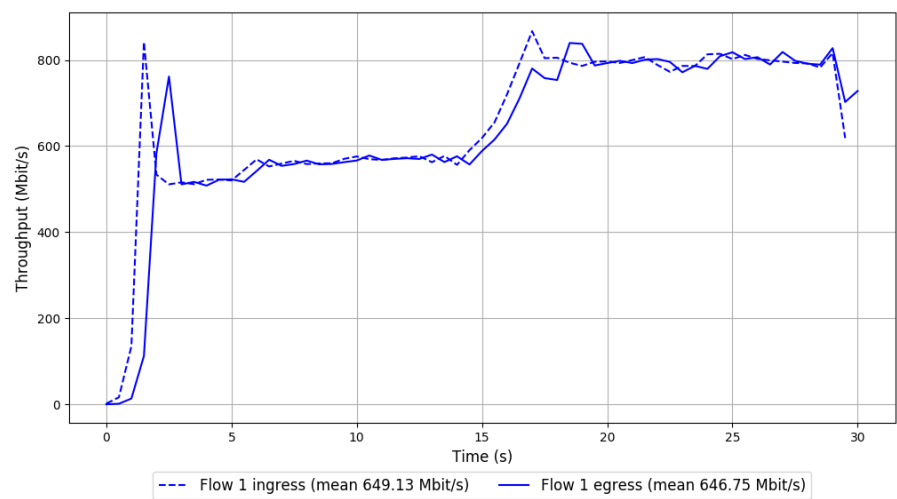
-- Flow 1:

Average throughput: 646.75 Mbit/s

95th percentile per-packet one-way delay: 110.873 ms

Loss rate: 0.36%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-08-03 07:41:24

End at: 2018-08-03 07:41:54

Local clock offset: -0.185 ms

Remote clock offset: -0.345 ms

# Below is generated by plot.py at 2018-08-03 09:53:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 713.86 Mbit/s

95th percentile per-packet one-way delay: 89.707 ms

Loss rate: 0.06%

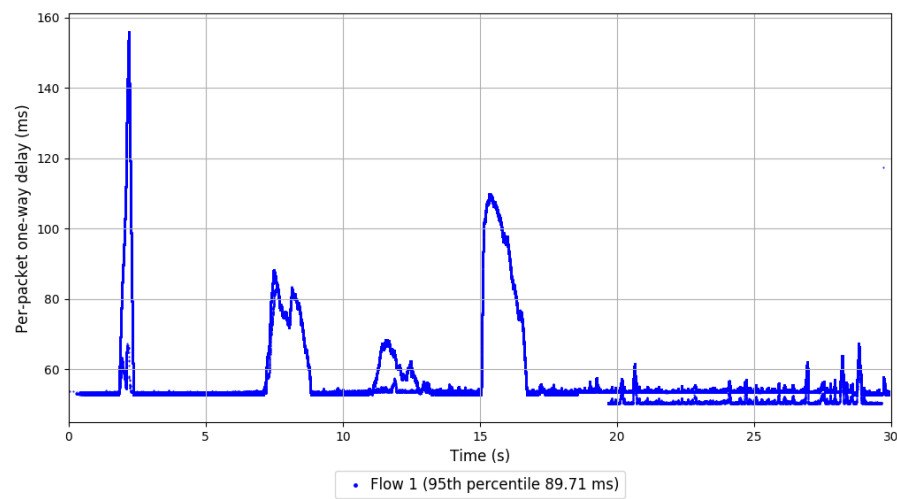
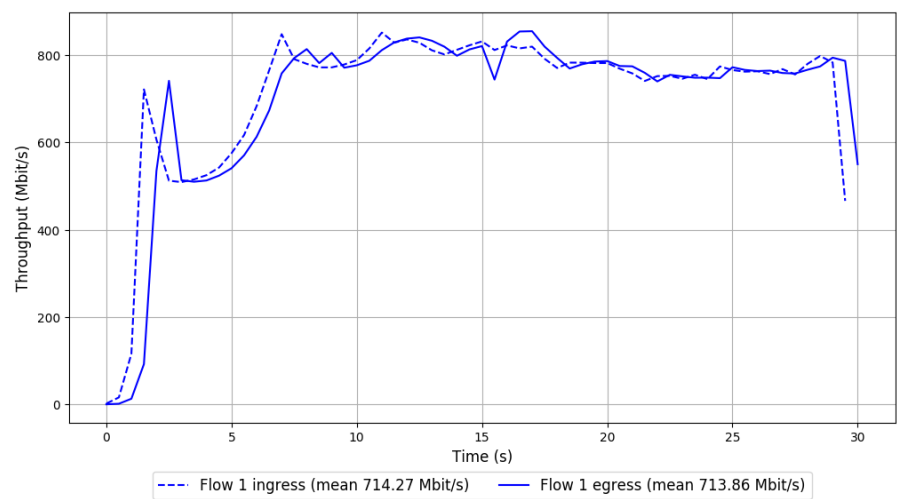
-- Flow 1:

Average throughput: 713.86 Mbit/s

95th percentile per-packet one-way delay: 89.707 ms

Loss rate: 0.06%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-08-03 08:03:24

End at: 2018-08-03 08:03:54

Local clock offset: 0.057 ms

Remote clock offset: -0.251 ms

# Below is generated by plot.py at 2018-08-03 09:54:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 715.32 Mbit/s

95th percentile per-packet one-way delay: 200.642 ms

Loss rate: 4.90%

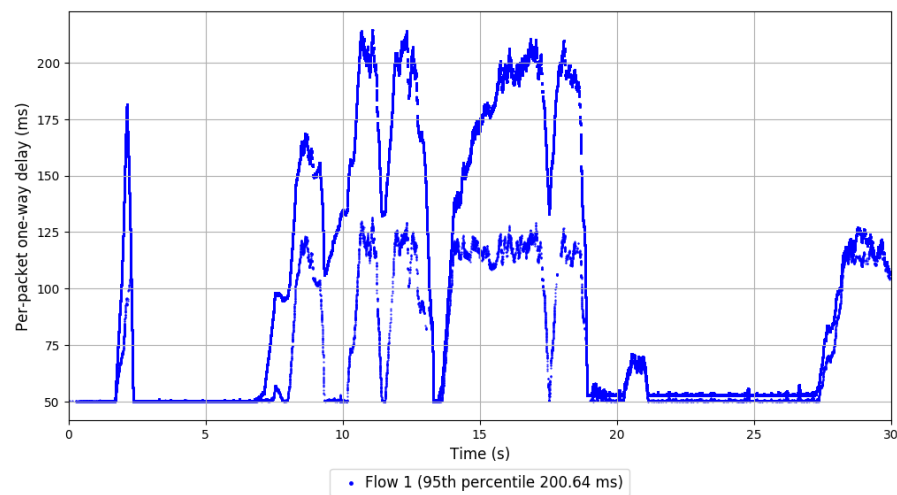
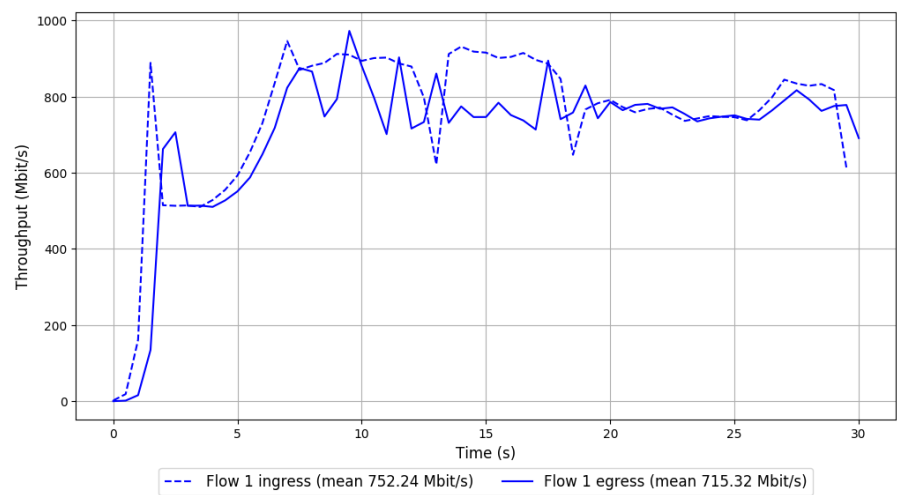
-- Flow 1:

Average throughput: 715.32 Mbit/s

95th percentile per-packet one-way delay: 200.642 ms

Loss rate: 4.90%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-08-03 04:51:36

End at: 2018-08-03 04:52:07

Local clock offset: 0.135 ms

Remote clock offset: -0.127 ms

# Below is generated by plot.py at 2018-08-03 09:54:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 353.15 Mbit/s

95th percentile per-packet one-way delay: 163.390 ms

Loss rate: 2.27%

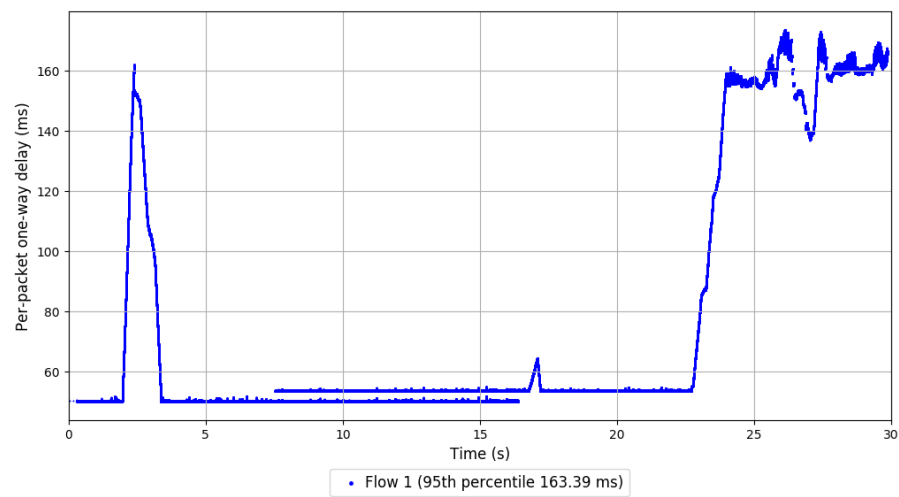
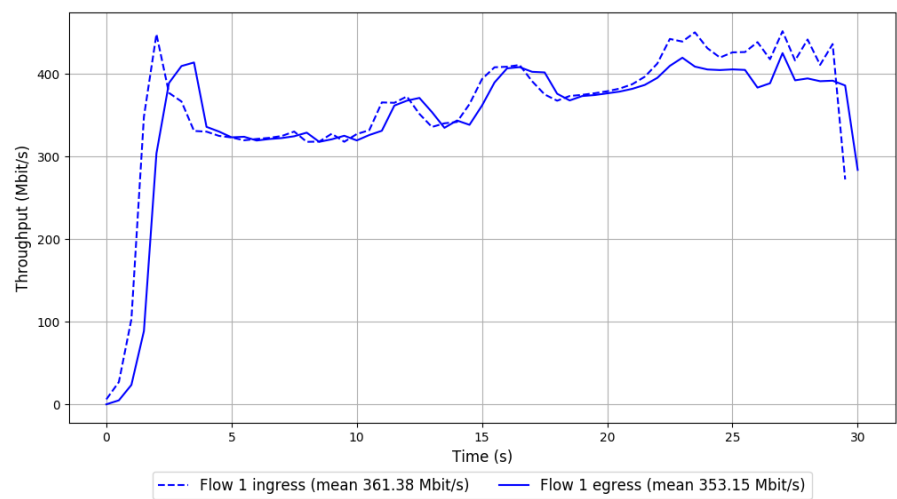
-- Flow 1:

Average throughput: 353.15 Mbit/s

95th percentile per-packet one-way delay: 163.390 ms

Loss rate: 2.27%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-08-03 05:14:05

End at: 2018-08-03 05:14:35

Local clock offset: 0.04 ms

Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2018-08-03 09:56:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 389.03 Mbit/s

95th percentile per-packet one-way delay: 173.650 ms

Loss rate: 8.60%

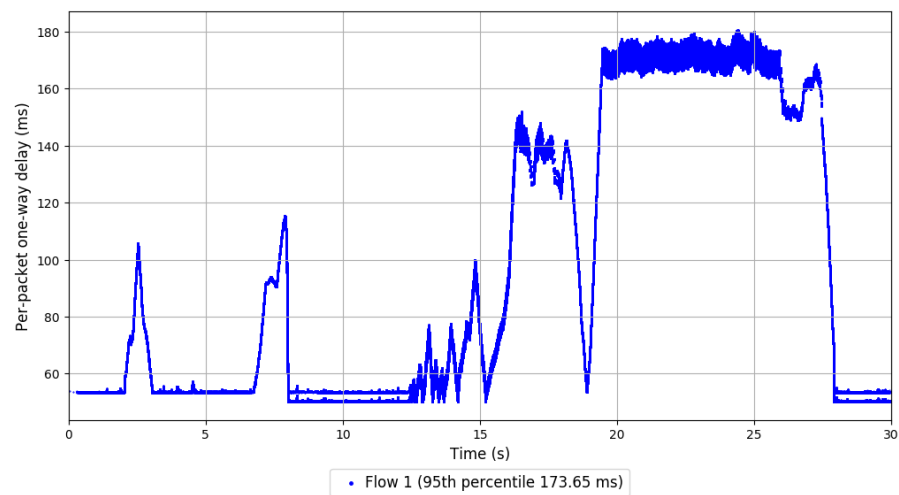
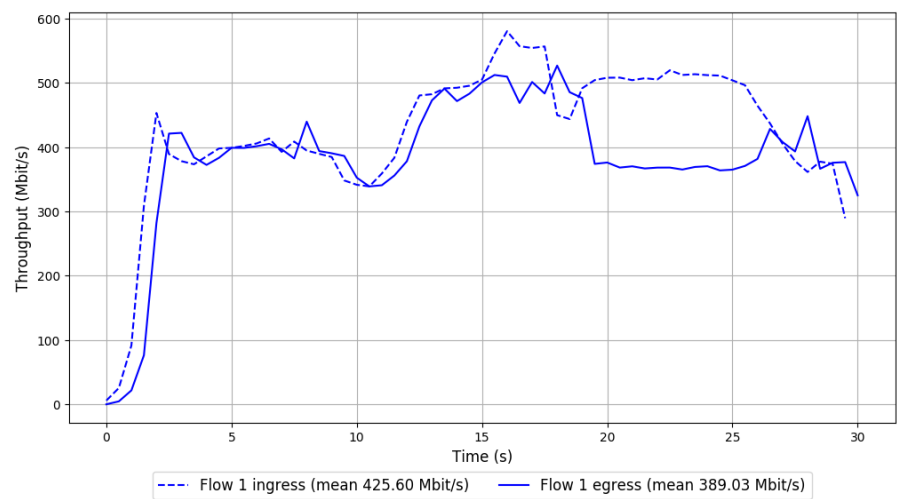
-- Flow 1:

Average throughput: 389.03 Mbit/s

95th percentile per-packet one-way delay: 173.650 ms

Loss rate: 8.60%

Run 2: Report of PCC-Expr — Data Link

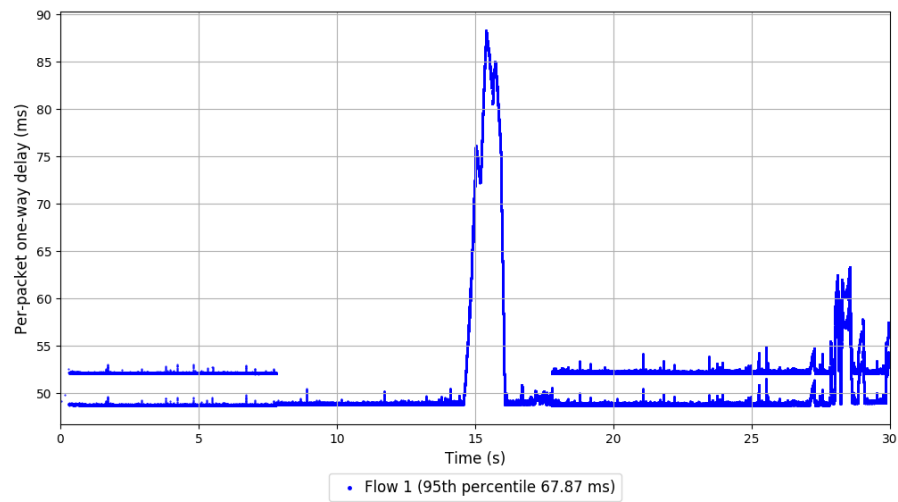
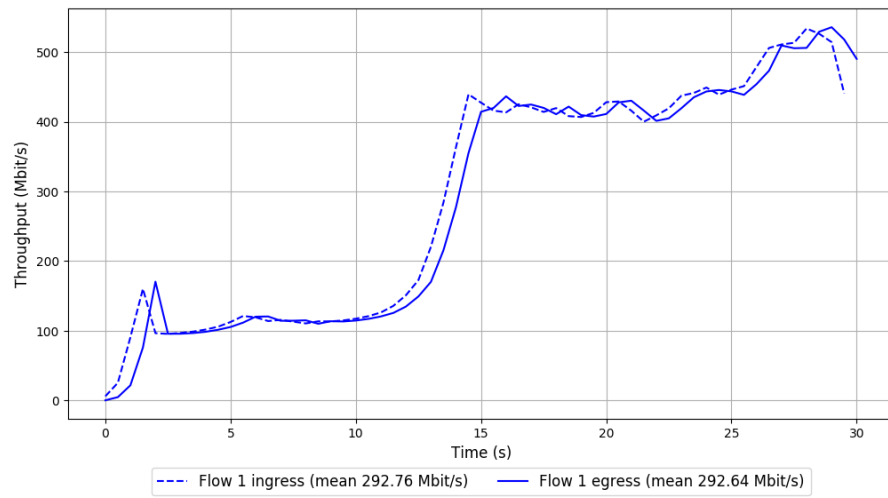


Run 3: Statistics of PCC-Expr

Start at: 2018-08-03 05:36:45  
End at: 2018-08-03 05:37:15  
Local clock offset: -0.029 ms  
Remote clock offset: -1.518 ms

# Below is generated by plot.py at 2018-08-03 09:56:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 292.64 Mbit/s  
95th percentile per-packet one-way delay: 67.867 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 292.64 Mbit/s  
95th percentile per-packet one-way delay: 67.867 ms  
Loss rate: 0.03%

### Run 3: Report of PCC-Expr — Data Link

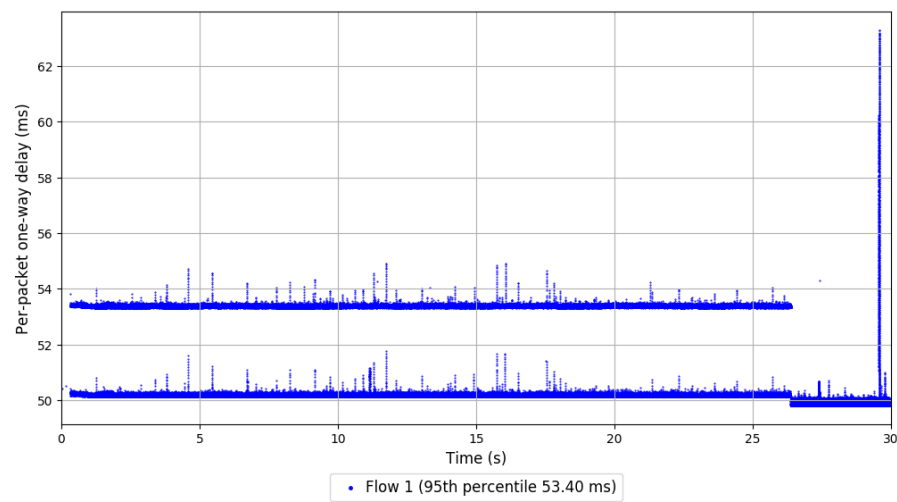
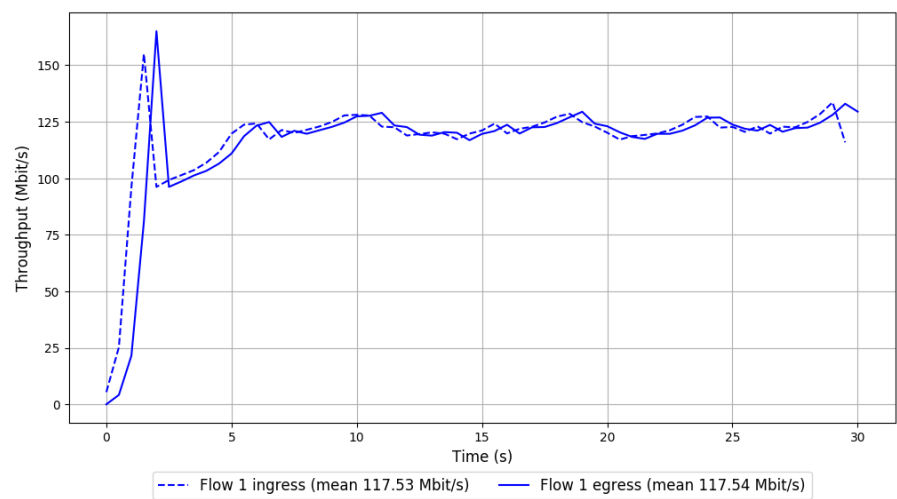


Run 4: Statistics of PCC-Expr

Start at: 2018-08-03 05:58:57  
End at: 2018-08-03 05:59:27  
Local clock offset: 0.159 ms  
Remote clock offset: -0.208 ms

# Below is generated by plot.py at 2018-08-03 09:56:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 117.54 Mbit/s  
95th percentile per-packet one-way delay: 53.397 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 117.54 Mbit/s  
95th percentile per-packet one-way delay: 53.397 ms  
Loss rate: 0.00%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-08-03 06:20:54

End at: 2018-08-03 06:21:24

Local clock offset: 0.091 ms

Remote clock offset: -0.448 ms

# Below is generated by plot.py at 2018-08-03 09:59:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 367.89 Mbit/s

95th percentile per-packet one-way delay: 158.329 ms

Loss rate: 0.70%

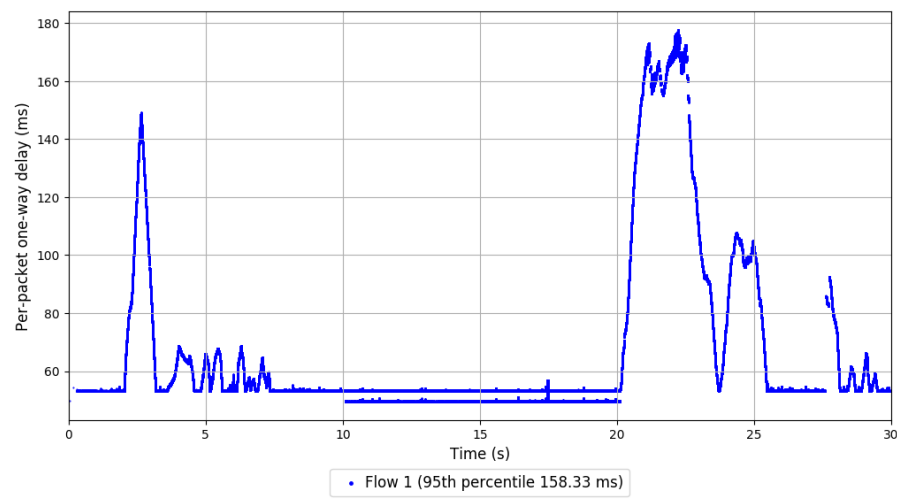
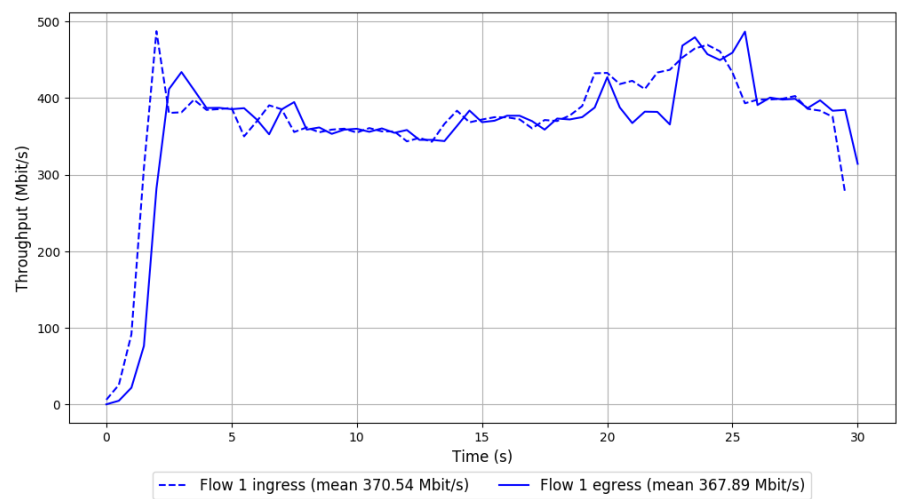
-- Flow 1:

Average throughput: 367.89 Mbit/s

95th percentile per-packet one-way delay: 158.329 ms

Loss rate: 0.70%

Run 5: Report of PCC-Expr — Data Link

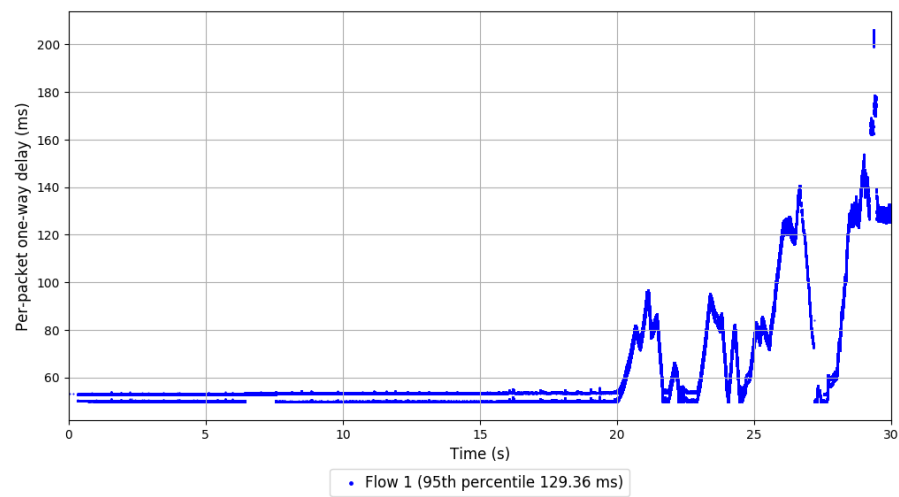
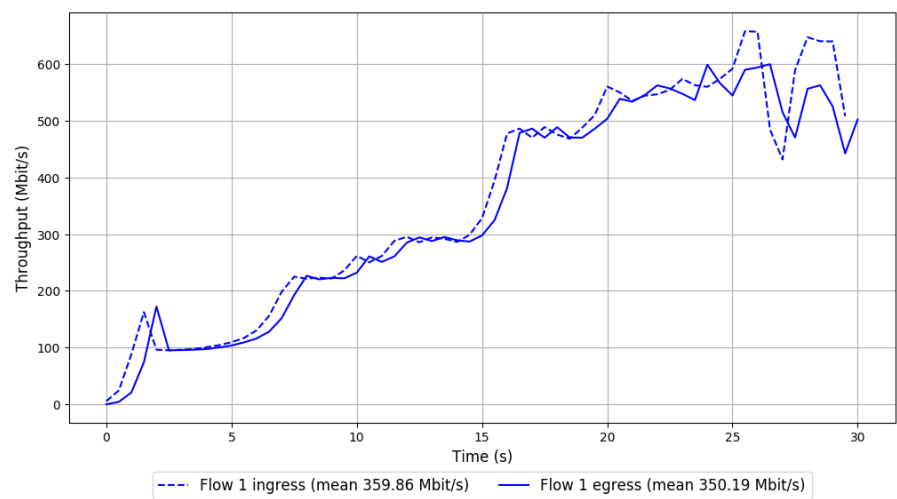


Run 6: Statistics of PCC-Expr

Start at: 2018-08-03 06:43:17  
End at: 2018-08-03 06:43:47  
Local clock offset: 0.016 ms  
Remote clock offset: -0.429 ms

# Below is generated by plot.py at 2018-08-03 09:59:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 350.19 Mbit/s  
95th percentile per-packet one-way delay: 129.362 ms  
Loss rate: 2.70%  
-- Flow 1:  
Average throughput: 350.19 Mbit/s  
95th percentile per-packet one-way delay: 129.362 ms  
Loss rate: 2.70%

Run 6: Report of PCC-Expr — Data Link

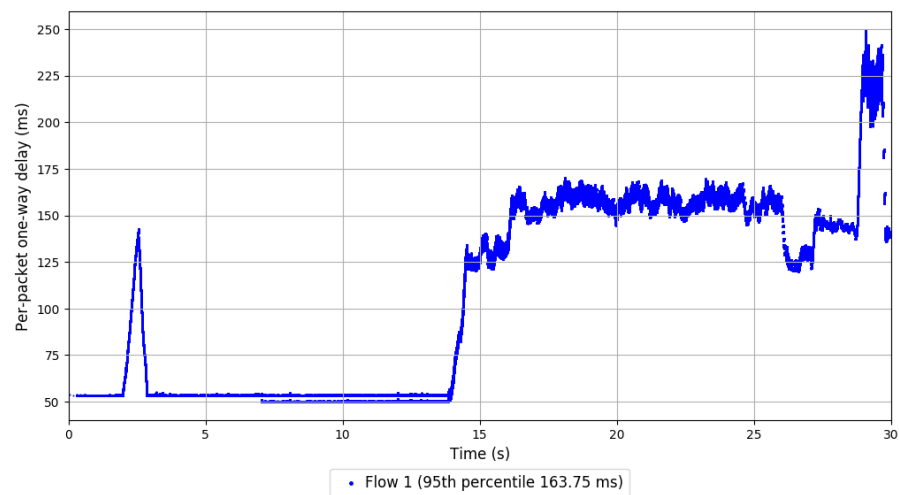
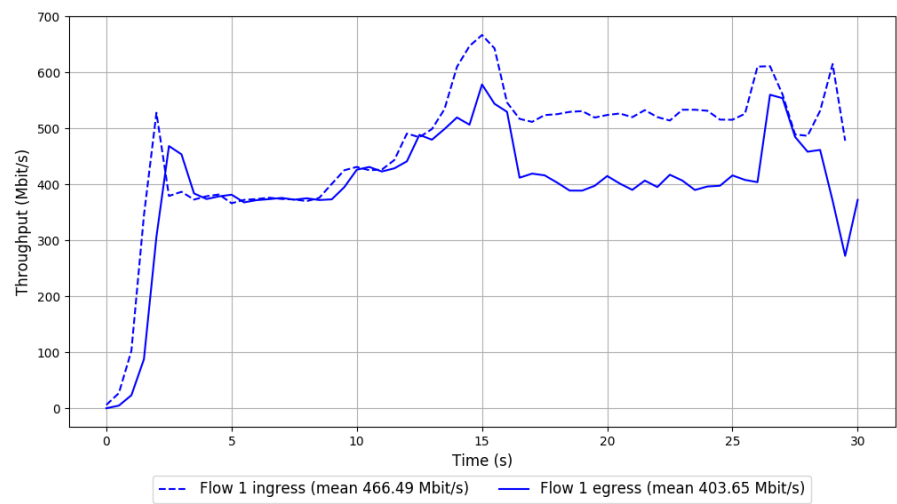


Run 7: Statistics of PCC-Expr

Start at: 2018-08-03 07:05:07  
End at: 2018-08-03 07:05:37  
Local clock offset: 0.036 ms  
Remote clock offset: -0.262 ms

# Below is generated by plot.py at 2018-08-03 10:05:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 403.65 Mbit/s  
95th percentile per-packet one-way delay: 163.751 ms  
Loss rate: 13.47%  
-- Flow 1:  
Average throughput: 403.65 Mbit/s  
95th percentile per-packet one-way delay: 163.751 ms  
Loss rate: 13.47%

Run 7: Report of PCC-Expr — Data Link

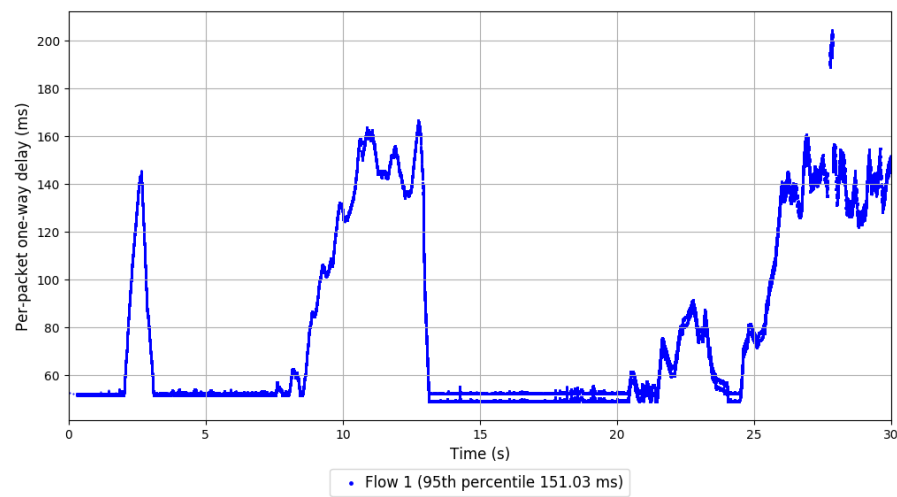
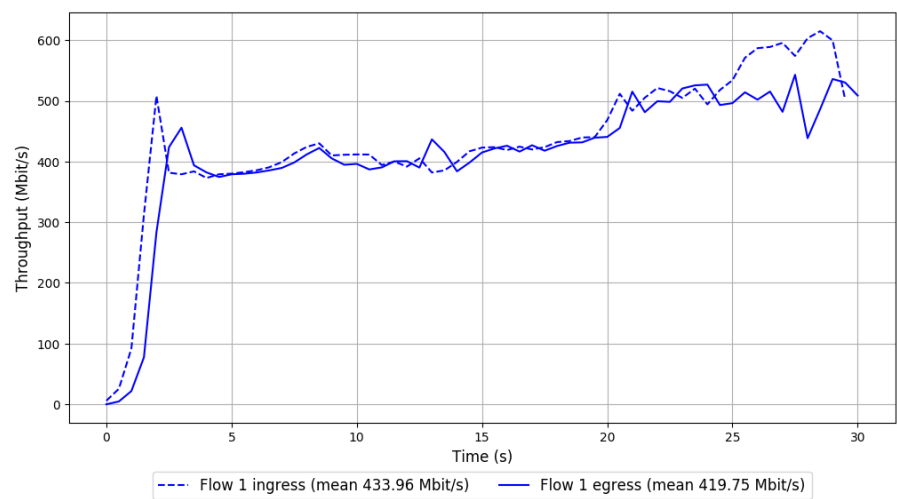


Run 8: Statistics of PCC-Expr

Start at: 2018-08-03 07:27:20  
End at: 2018-08-03 07:27:50  
Local clock offset: 0.038 ms  
Remote clock offset: -1.486 ms

# Below is generated by plot.py at 2018-08-03 10:06:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 419.75 Mbit/s  
95th percentile per-packet one-way delay: 151.035 ms  
Loss rate: 3.21%  
-- Flow 1:  
Average throughput: 419.75 Mbit/s  
95th percentile per-packet one-way delay: 151.035 ms  
Loss rate: 3.21%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-08-03 07:49:44

End at: 2018-08-03 07:50:14

Local clock offset: 0.037 ms

Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2018-08-03 10:06:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 349.48 Mbit/s

95th percentile per-packet one-way delay: 153.259 ms

Loss rate: 1.05%

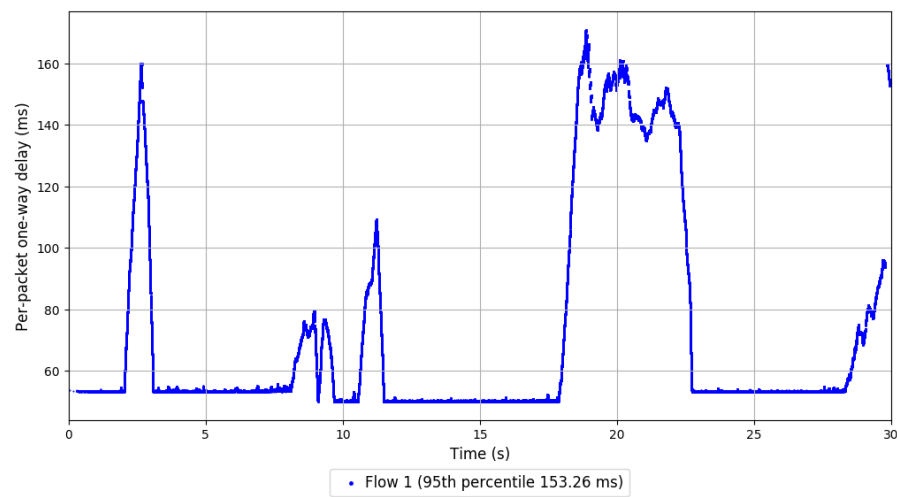
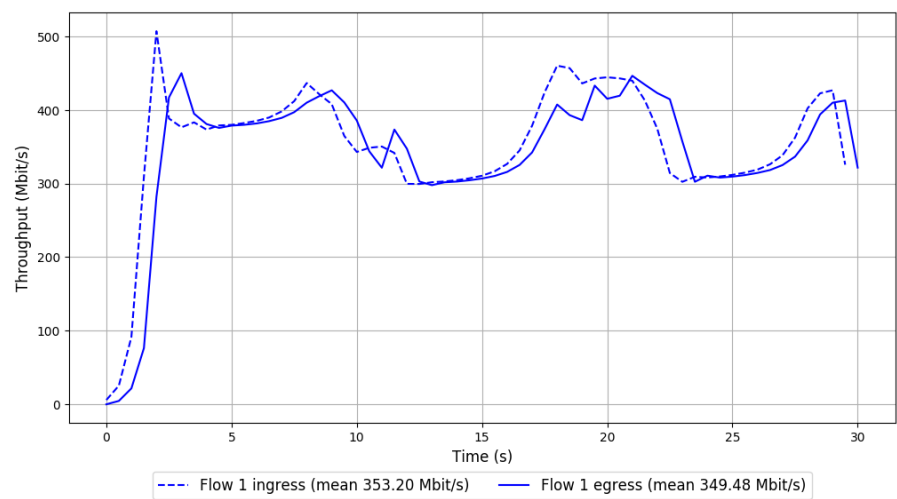
-- Flow 1:

Average throughput: 349.48 Mbit/s

95th percentile per-packet one-way delay: 153.259 ms

Loss rate: 1.05%

Run 9: Report of PCC-Expr — Data Link

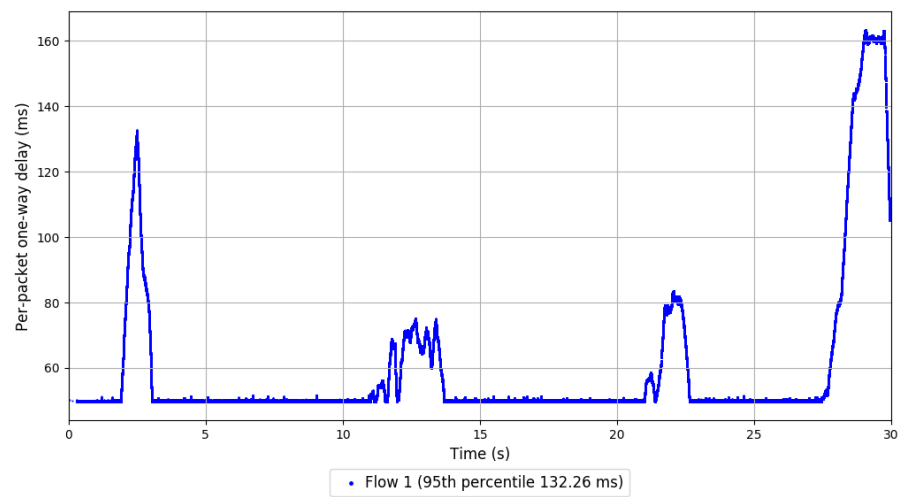
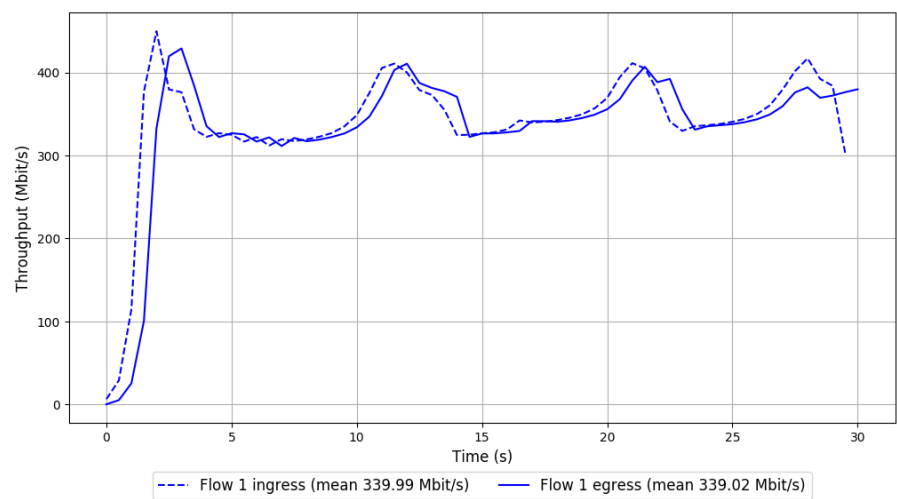


Run 10: Statistics of PCC-Expr

Start at: 2018-08-03 08:12:03  
End at: 2018-08-03 08:12:33  
Local clock offset: 0.217 ms  
Remote clock offset: -0.419 ms

# Below is generated by plot.py at 2018-08-03 10:06:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 339.02 Mbit/s  
95th percentile per-packet one-way delay: 132.262 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 339.02 Mbit/s  
95th percentile per-packet one-way delay: 132.262 ms  
Loss rate: 0.28%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

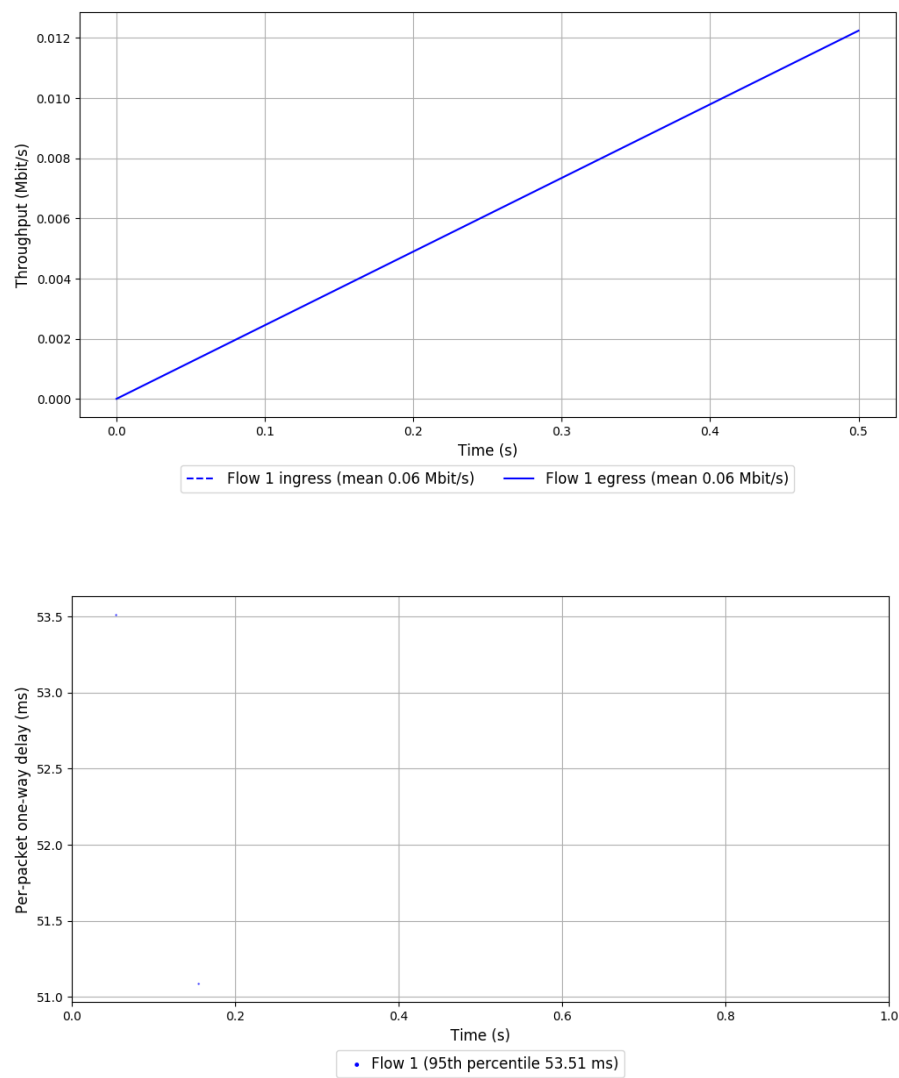
Start at: 2018-08-03 04:39:03

End at: 2018-08-03 04:39:33

Local clock offset: 0.036 ms

Remote clock offset: 0.235 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

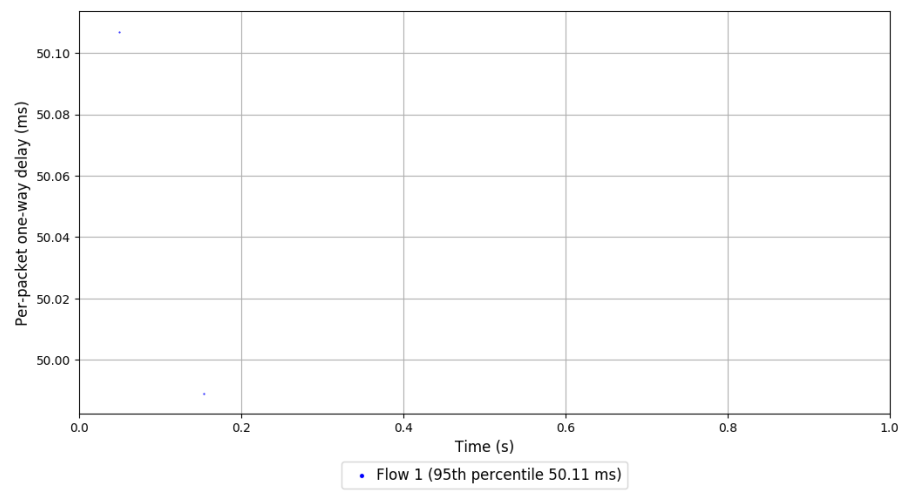
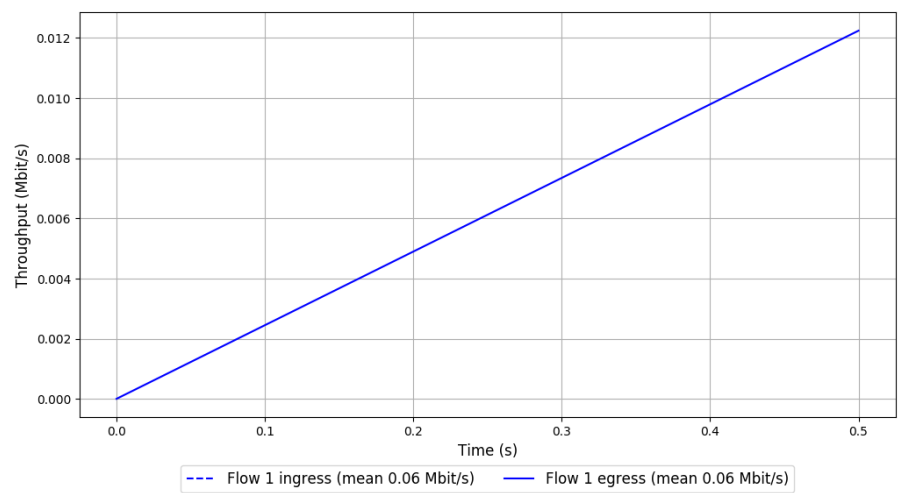
Start at: 2018-08-03 05:01:26

End at: 2018-08-03 05:01:56

Local clock offset: 0.077 ms

Remote clock offset: -0.135 ms

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

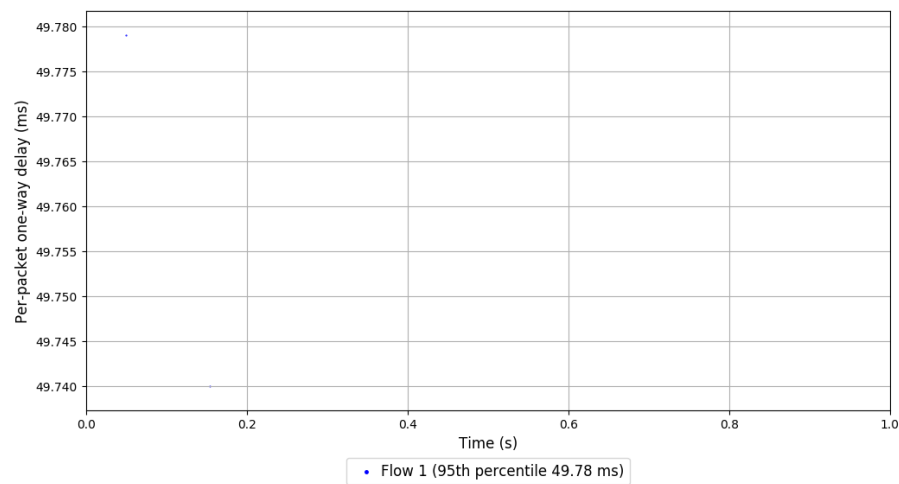
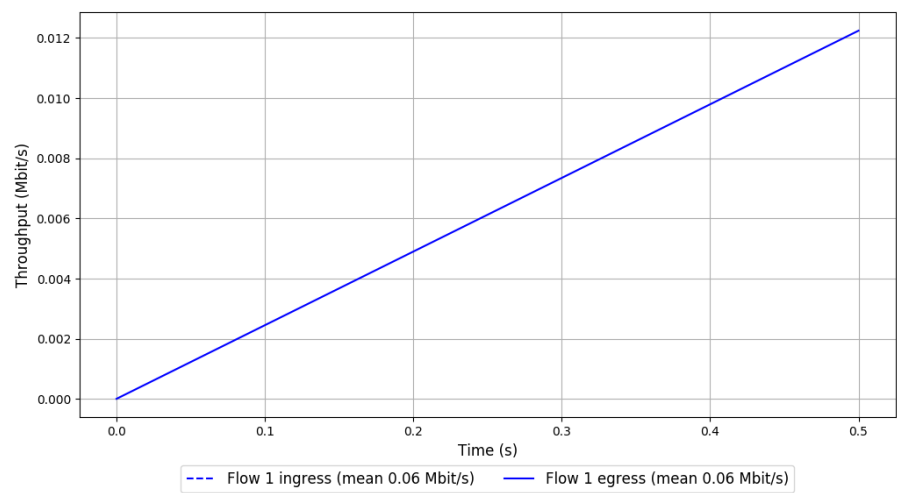
Start at: 2018-08-03 05:23:59

End at: 2018-08-03 05:24:29

Local clock offset: 0.059 ms

Remote clock offset: -0.328 ms

Run 3: Report of QUIC Cubic — Data Link

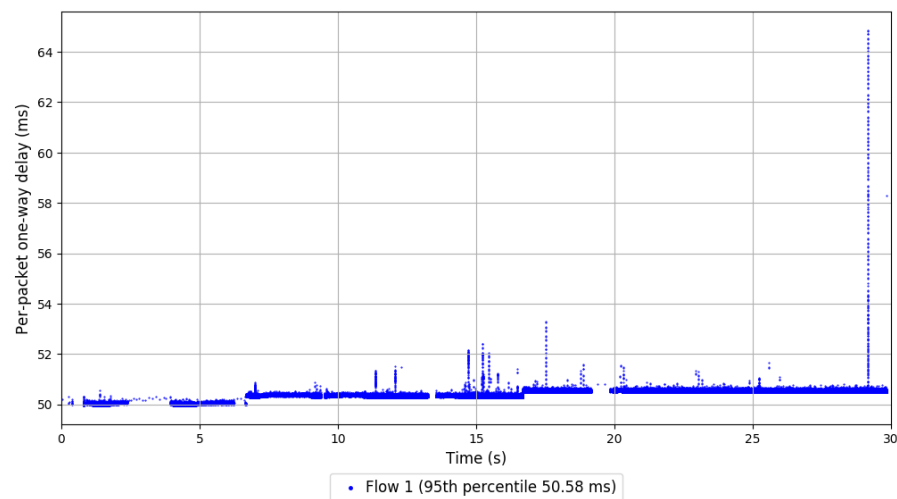
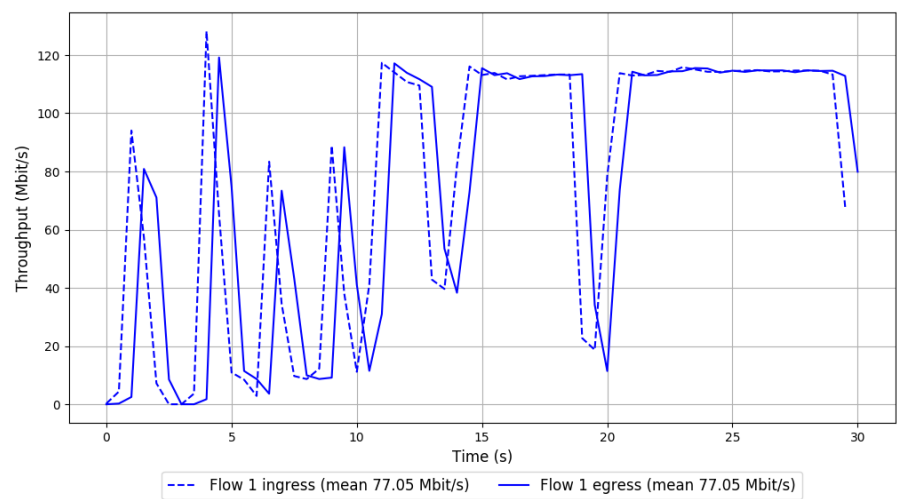


Run 4: Statistics of QUIC Cubic

Start at: 2018-08-03 05:46:27  
End at: 2018-08-03 05:46:57  
Local clock offset: -0.239 ms  
Remote clock offset: -0.267 ms

# Below is generated by plot.py at 2018-08-03 10:06:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 77.05 Mbit/s  
95th percentile per-packet one-way delay: 50.582 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 77.05 Mbit/s  
95th percentile per-packet one-way delay: 50.582 ms  
Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

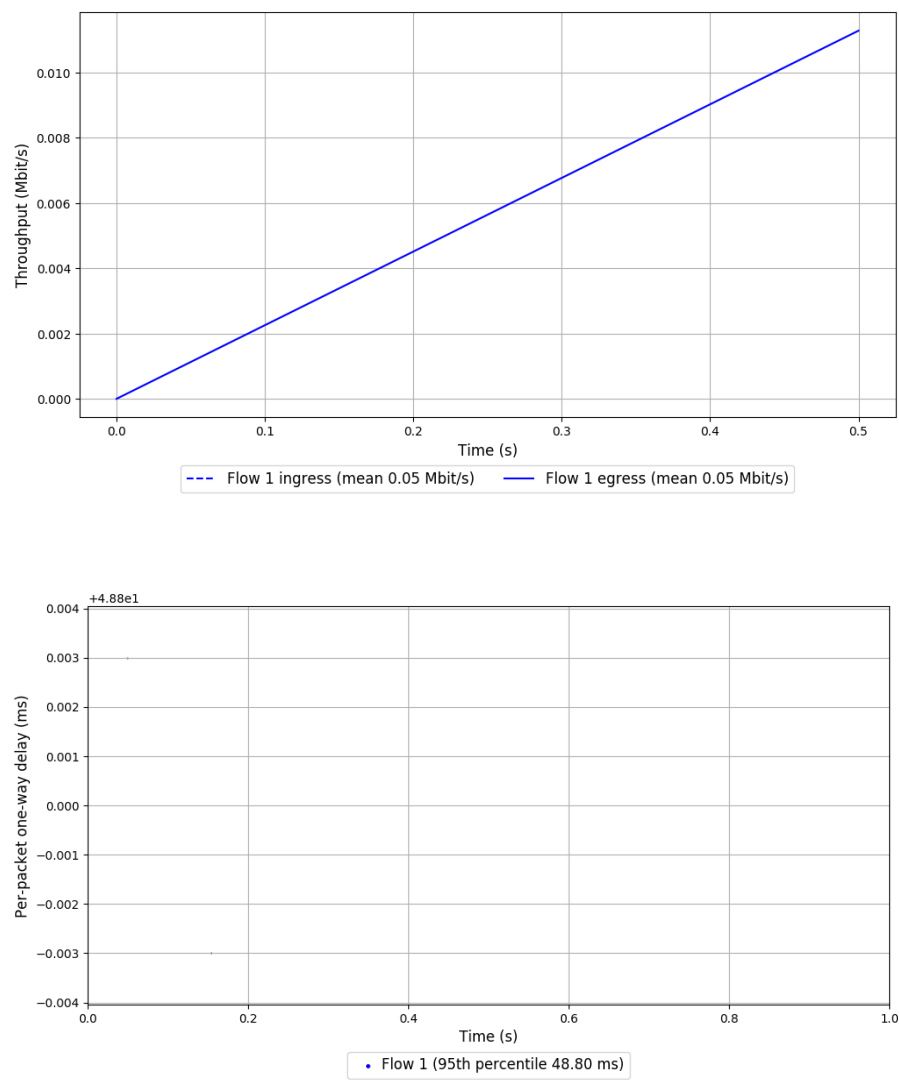
Start at: 2018-08-03 06:08:14

End at: 2018-08-03 06:08:44

Local clock offset: -0.07 ms

Remote clock offset: -1.485 ms

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

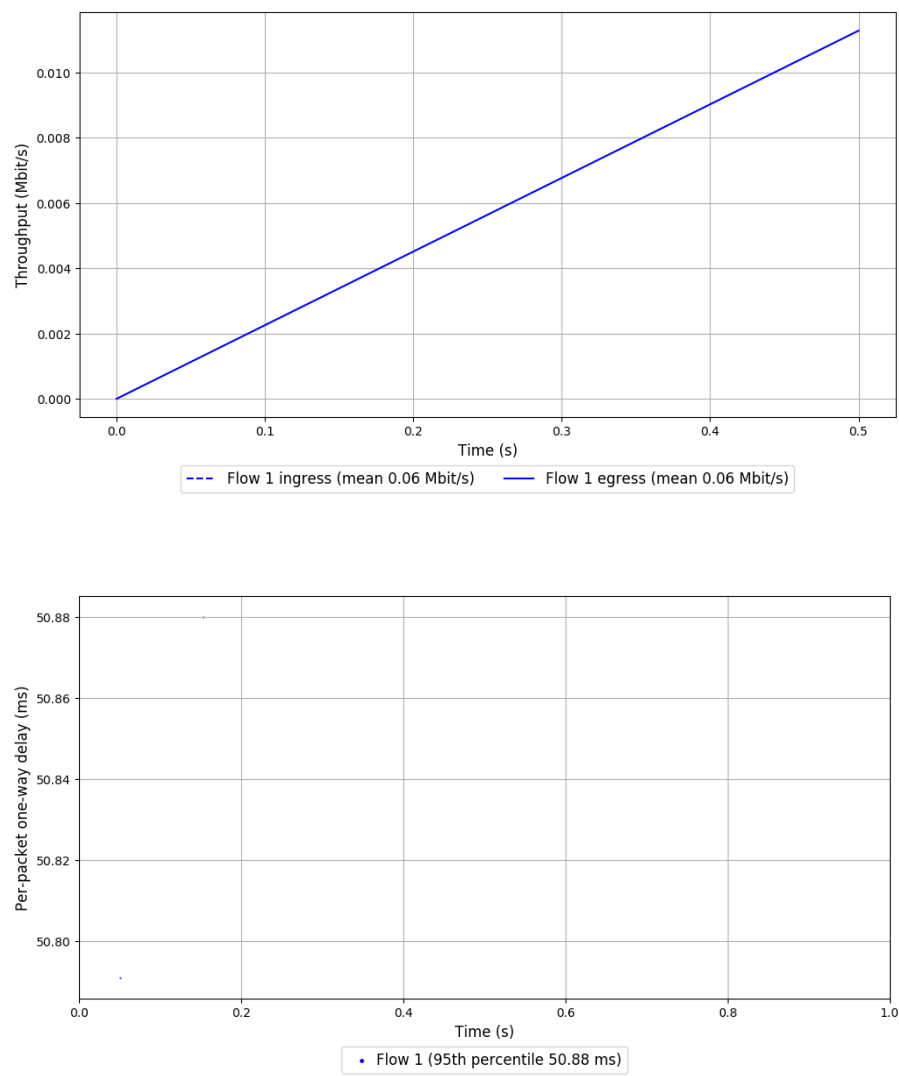
Start at: 2018-08-03 06:30:43

End at: 2018-08-03 06:31:13

Local clock offset: -0.016 ms

Remote clock offset: -0.008 ms

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

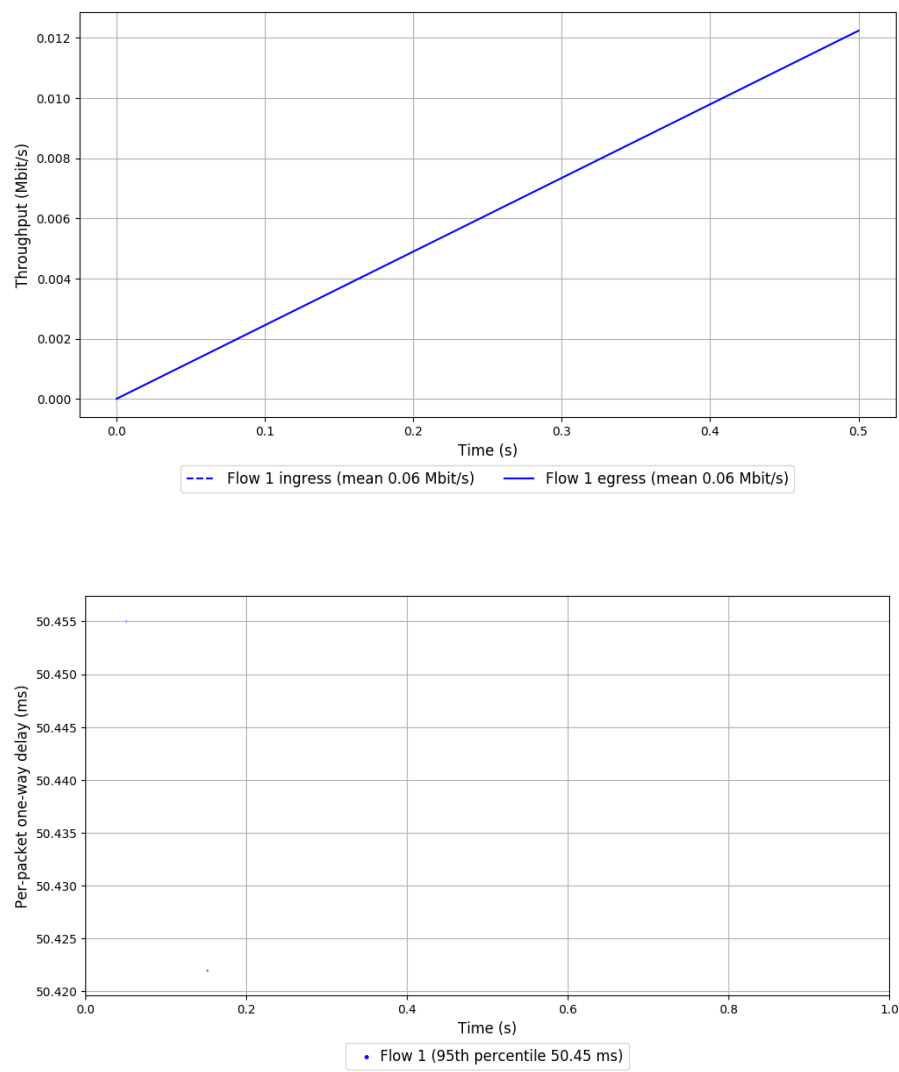
Start at: 2018-08-03 06:52:43

End at: 2018-08-03 06:53:13

Local clock offset: 0.0 ms

Remote clock offset: -0.193 ms

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-08-03 07:14:45

End at: 2018-08-03 07:15:15

Local clock offset: 0.028 ms

Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2018-08-03 10:06:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 65.27 Mbit/s

95th percentile per-packet one-way delay: 53.644 ms

Loss rate: 0.02%

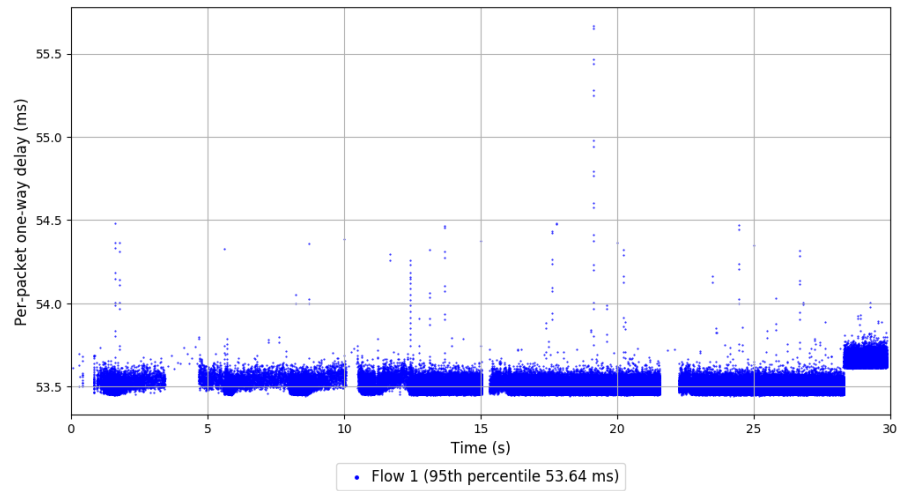
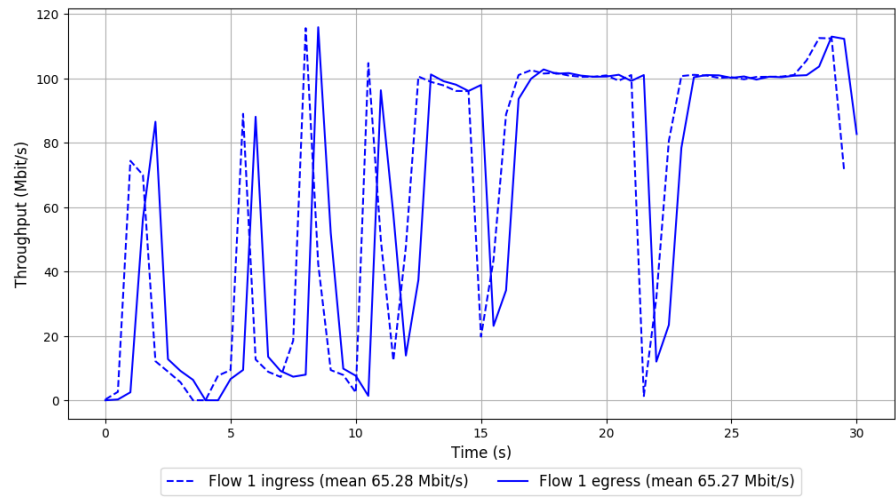
-- Flow 1:

Average throughput: 65.27 Mbit/s

95th percentile per-packet one-way delay: 53.644 ms

Loss rate: 0.02%

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



Run 9: Statistics of QUIC Cubic

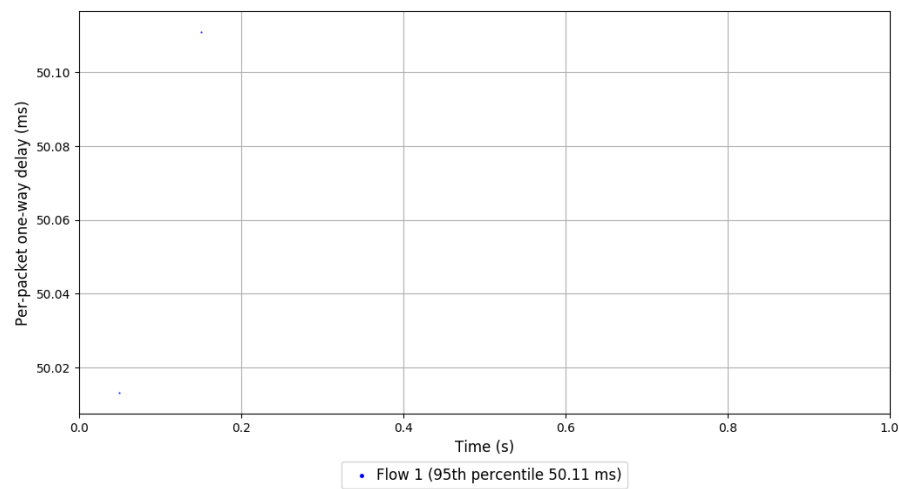
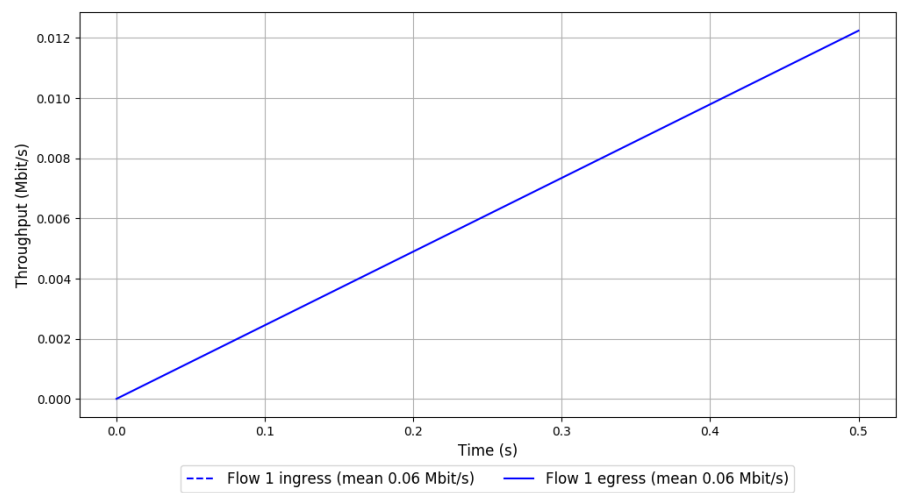
Start at: 2018-08-03 07:37:15

End at: 2018-08-03 07:37:45

Local clock offset: 0.063 ms

Remote clock offset: -0.291 ms

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

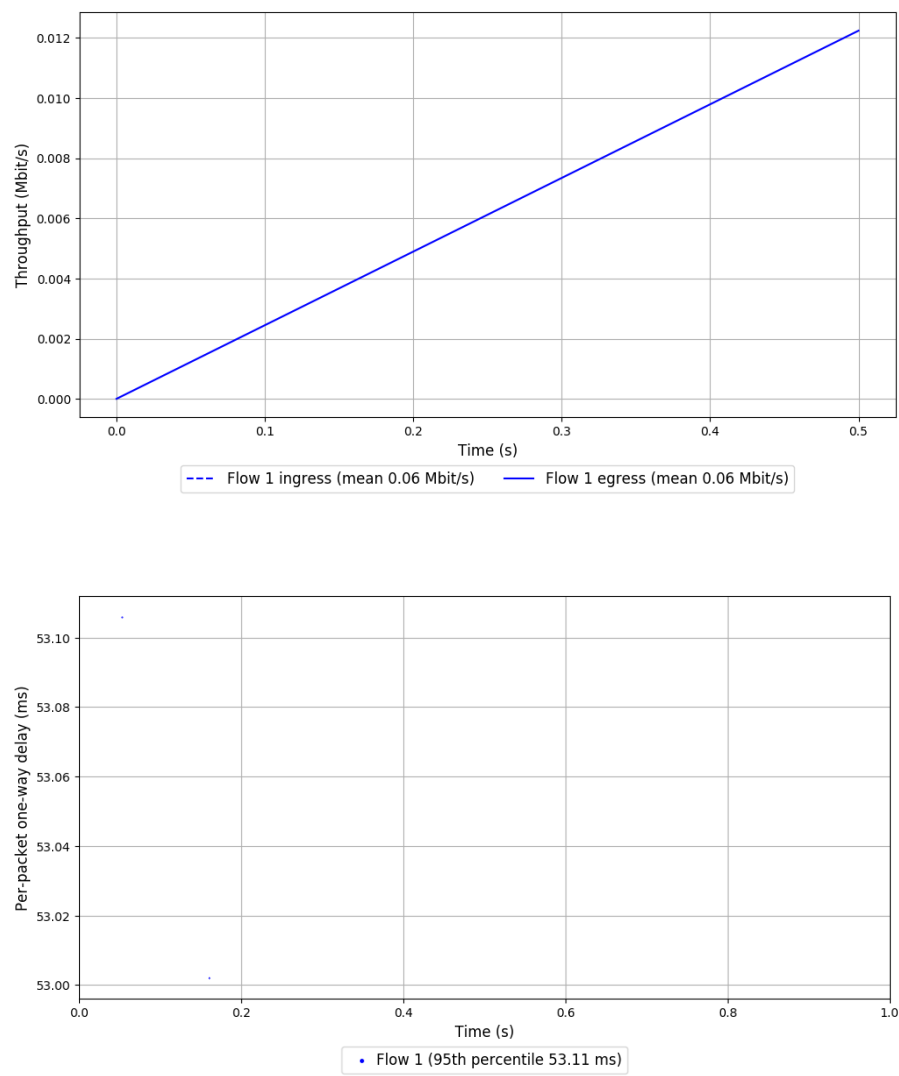
Start at: 2018-08-03 07:59:20

End at: 2018-08-03 07:59:50

Local clock offset: -0.048 ms

Remote clock offset: -0.133 ms

Run 10: Report of QUIC Cubic — Data Link

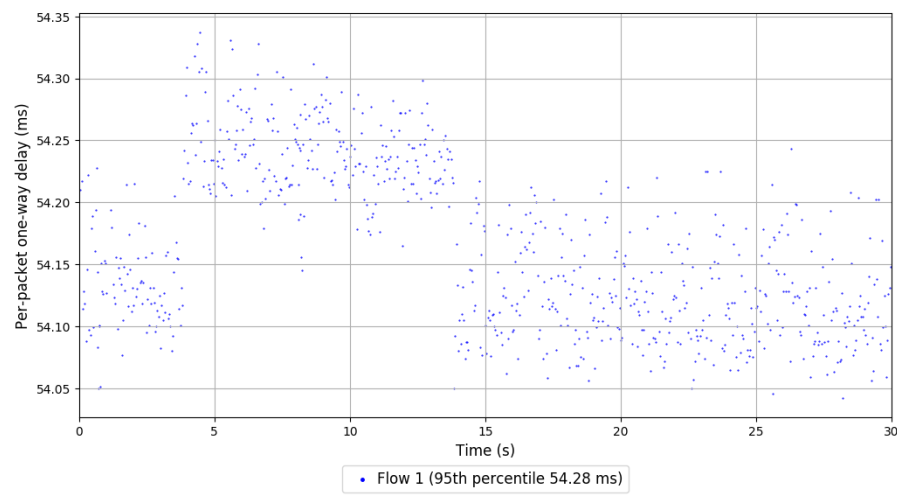
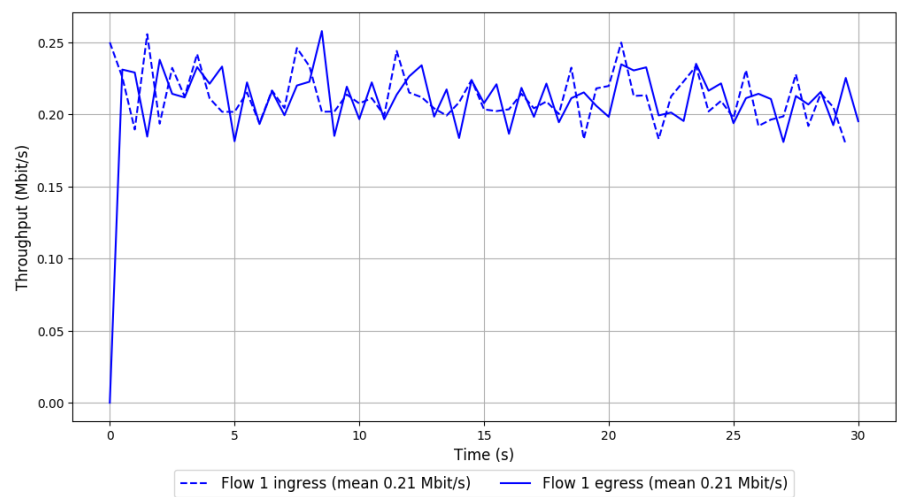


```
Run 1: Statistics of SCReAM

Start at: 2018-08-03 04:53:10
End at: 2018-08-03 04:53:40
Local clock offset: -0.119 ms
Remote clock offset: 0.127 ms

# Below is generated by plot.py at 2018-08-03 10:06:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.276 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.276 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

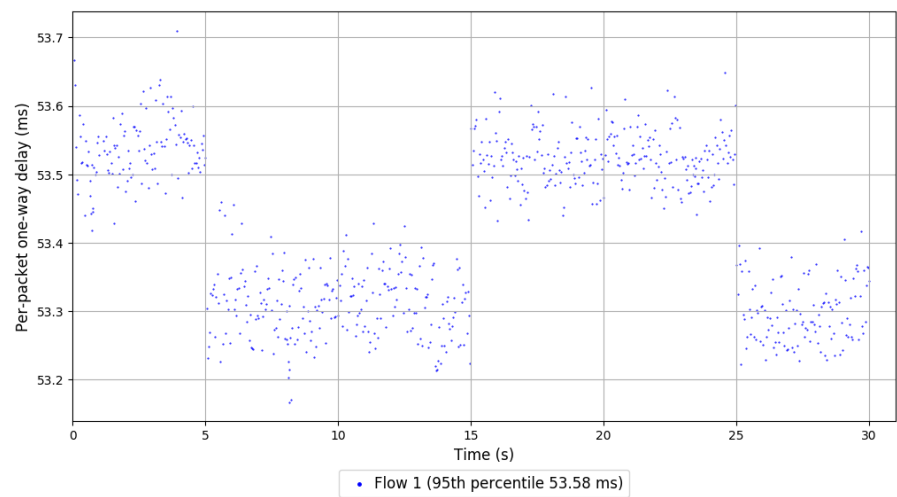
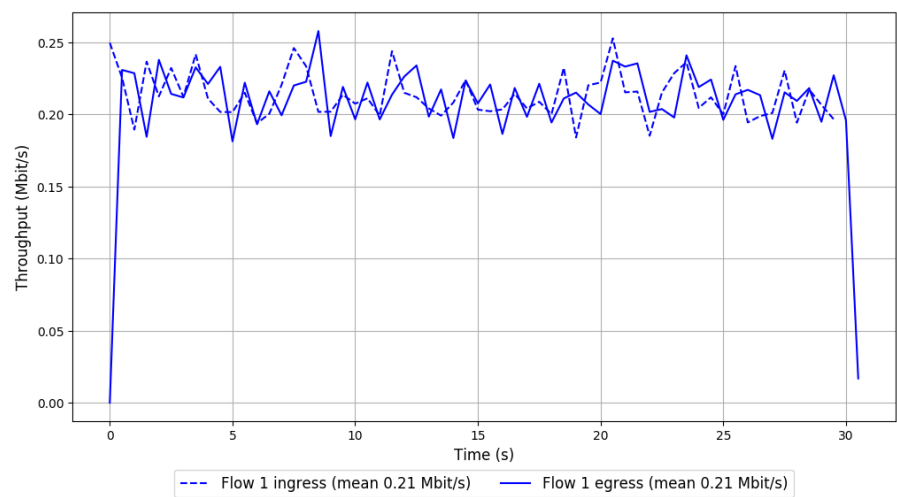


Run 2: Statistics of SCReAM

Start at: 2018-08-03 05:15:39  
End at: 2018-08-03 05:16:09  
Local clock offset: 0.118 ms  
Remote clock offset: -0.416 ms

# Below is generated by plot.py at 2018-08-03 10:06:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.581 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.581 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

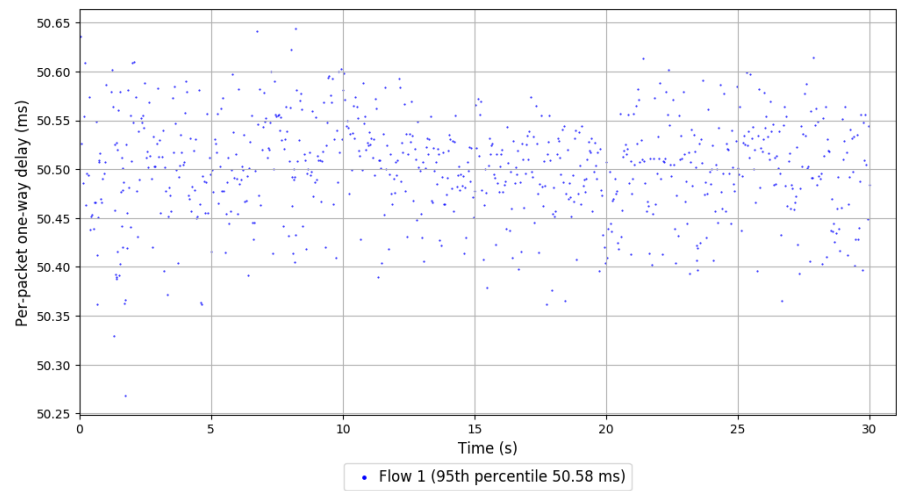
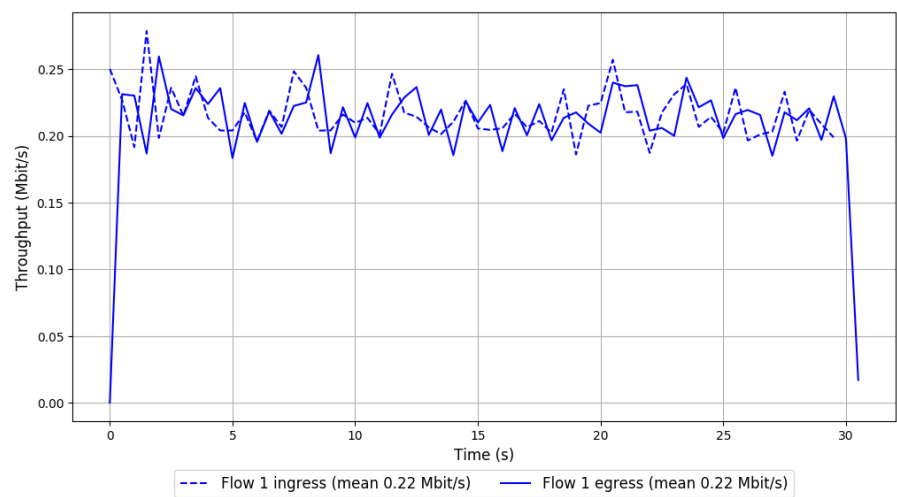


Run 3: Statistics of SCReAM

Start at: 2018-08-03 05:38:10  
End at: 2018-08-03 05:38:40  
Local clock offset: -0.026 ms  
Remote clock offset: -0.358 ms

# Below is generated by plot.py at 2018-08-03 10:06:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.582 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.582 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

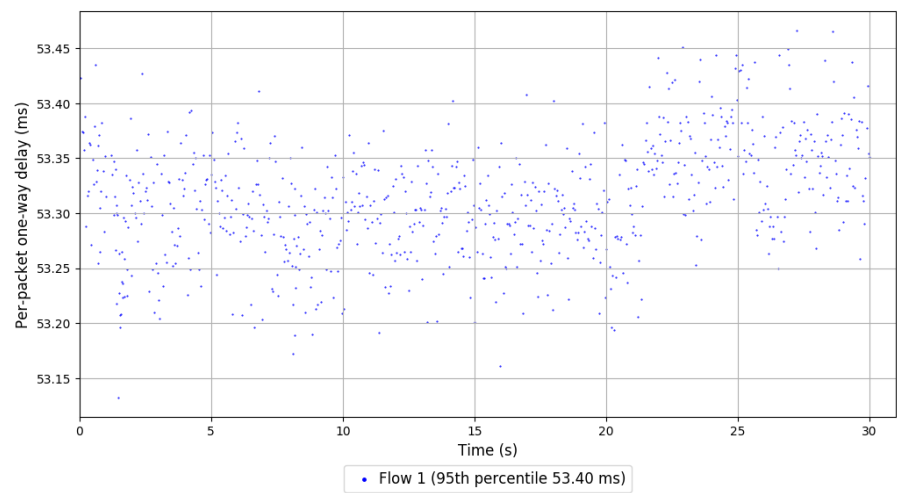
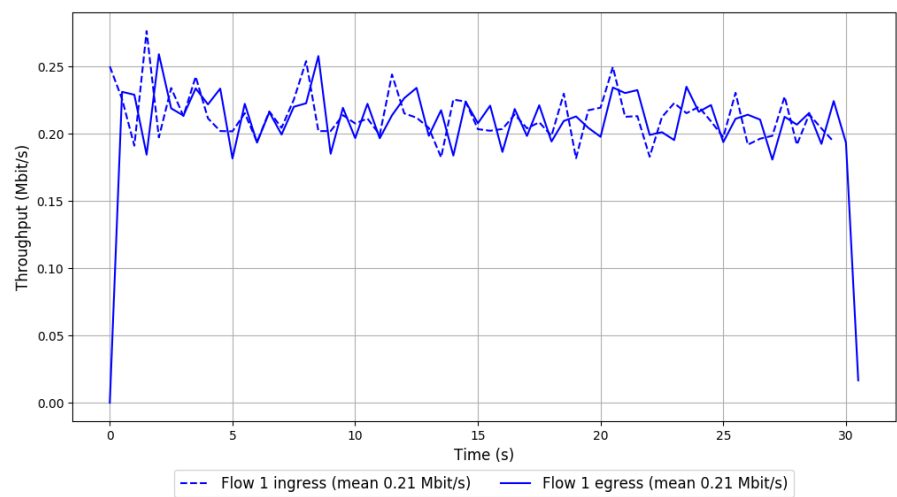


Run 4: Statistics of SCReAM

Start at: 2018-08-03 06:00:12  
End at: 2018-08-03 06:00:42  
Local clock offset: 0.171 ms  
Remote clock offset: -0.349 ms

# Below is generated by plot.py at 2018-08-03 10:06:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.396 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.396 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

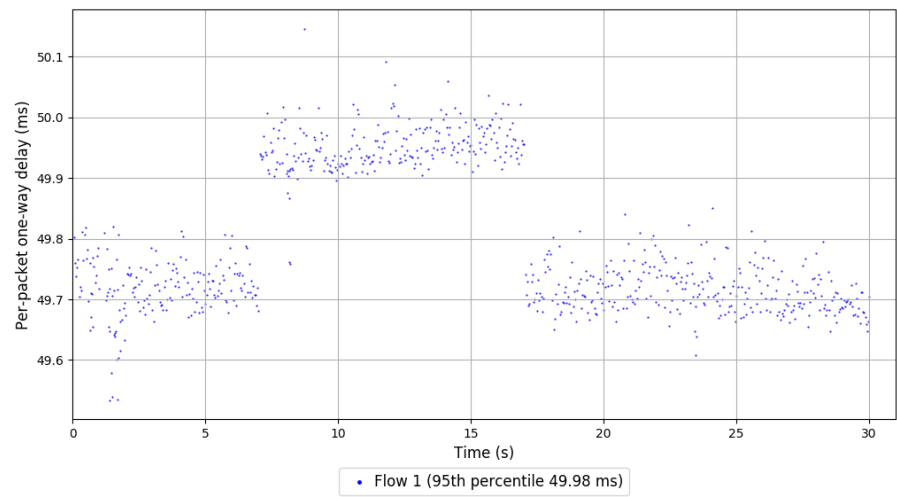
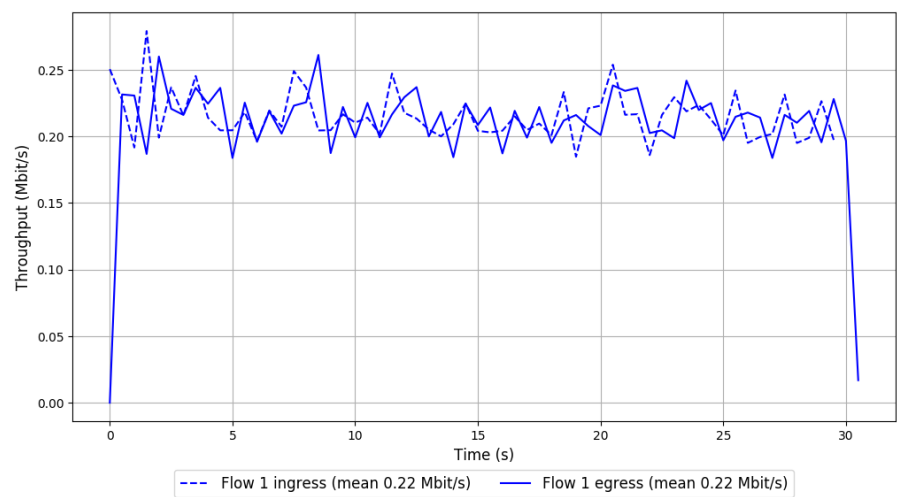


Run 5: Statistics of SCReAM

Start at: 2018-08-03 06:22:27  
End at: 2018-08-03 06:22:57  
Local clock offset: 0.243 ms  
Remote clock offset: -0.267 ms

# Below is generated by plot.py at 2018-08-03 10:06:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 49.985 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 49.985 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

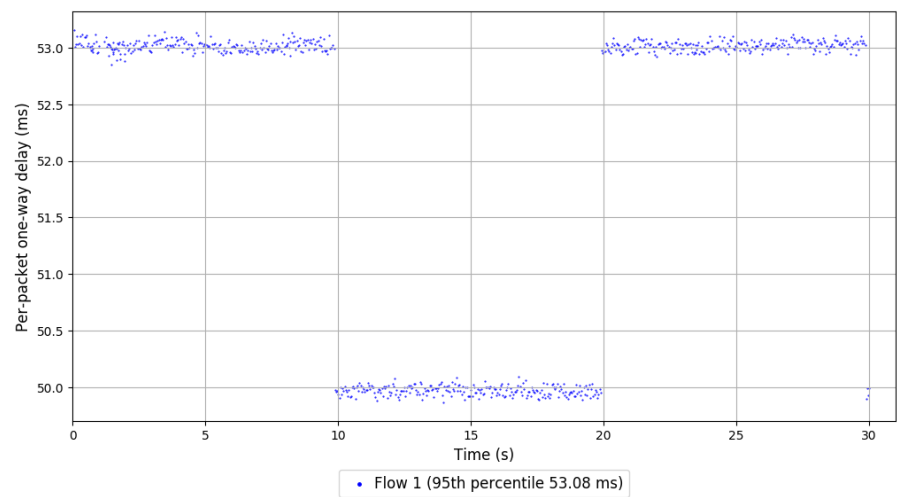
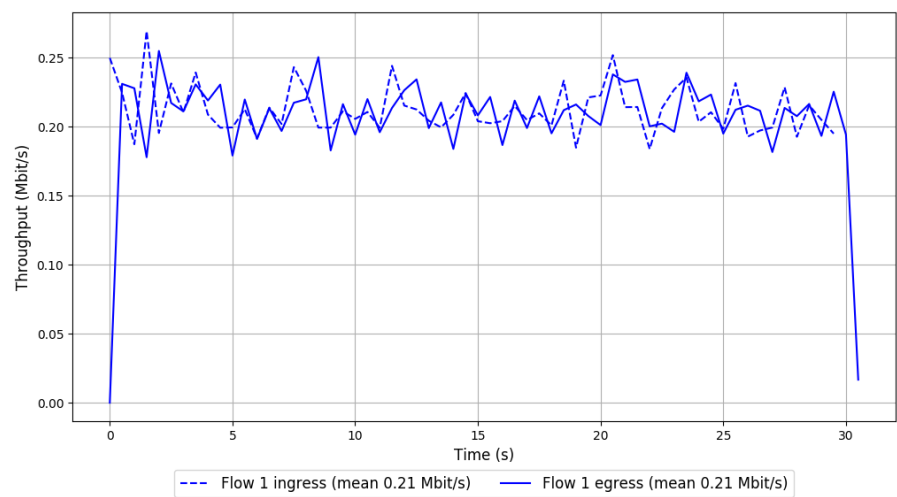


Run 6: Statistics of SCReAM

Start at: 2018-08-03 06:44:43  
End at: 2018-08-03 06:45:13  
Local clock offset: 0.057 ms  
Remote clock offset: -0.477 ms

# Below is generated by plot.py at 2018-08-03 10:06:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.082 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.082 ms  
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

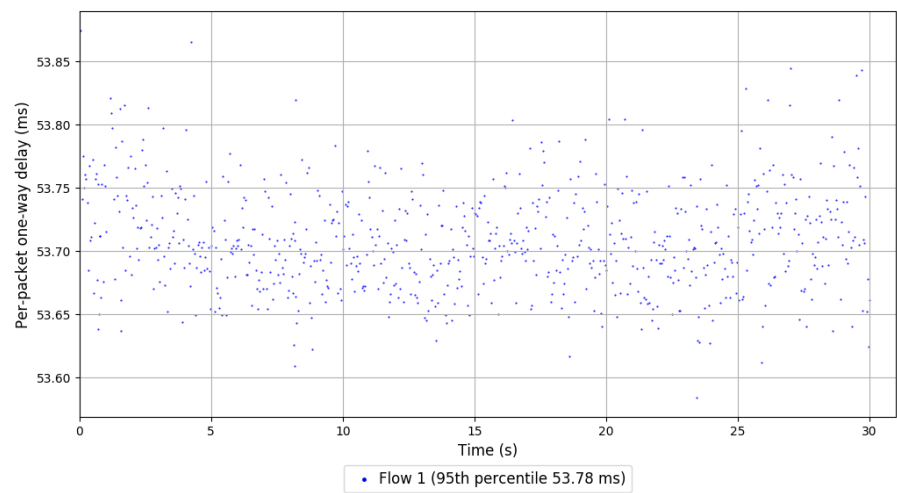
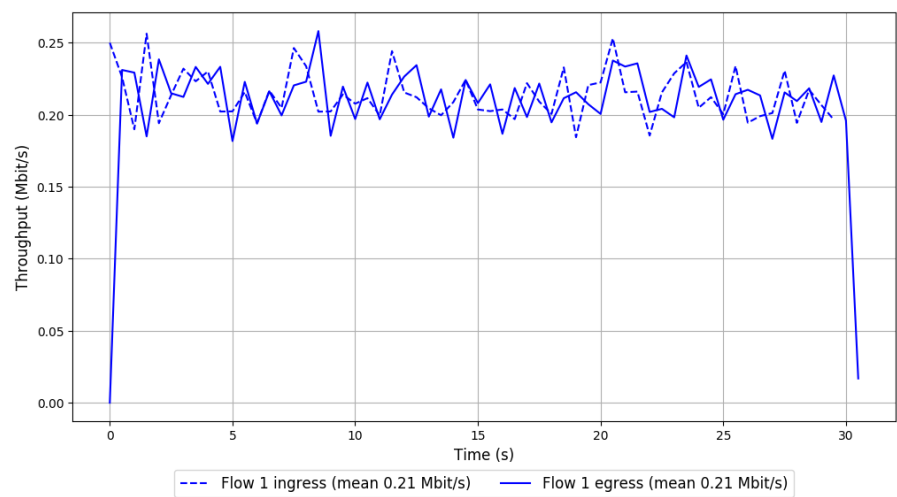


Run 7: Statistics of SCReAM

Start at: 2018-08-03 07:06:44  
End at: 2018-08-03 07:07:14  
Local clock offset: -0.165 ms  
Remote clock offset: -0.242 ms

# Below is generated by plot.py at 2018-08-03 10:06:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.777 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.777 ms  
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

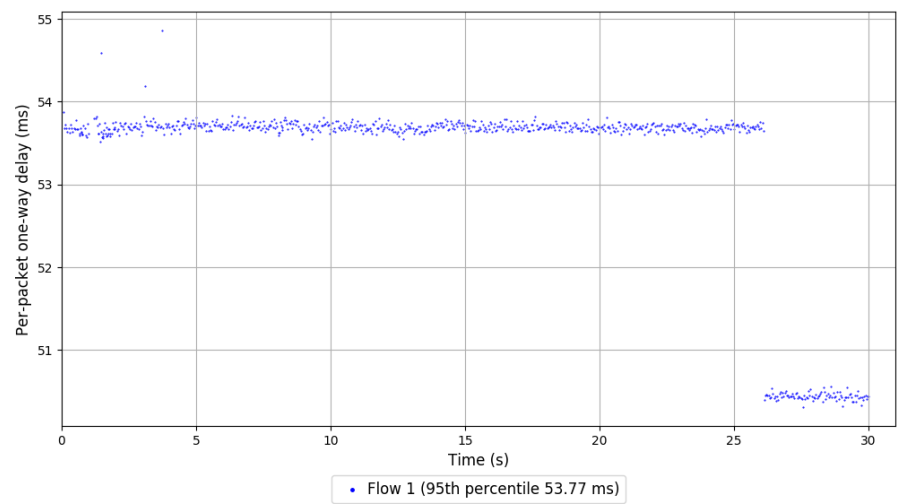
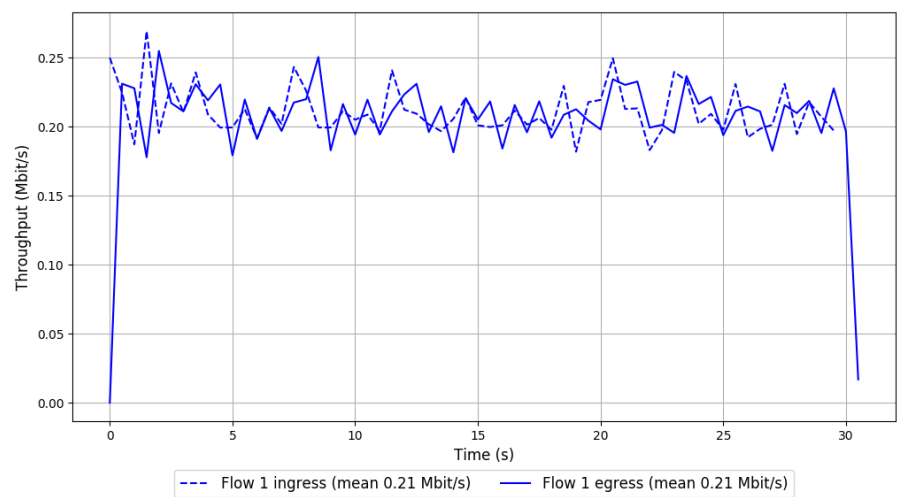


Run 8: Statistics of SCReAM

Start at: 2018-08-03 07:28:58  
End at: 2018-08-03 07:29:28  
Local clock offset: 0.021 ms  
Remote clock offset: -0.129 ms

# Below is generated by plot.py at 2018-08-03 10:06:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.769 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.769 ms  
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

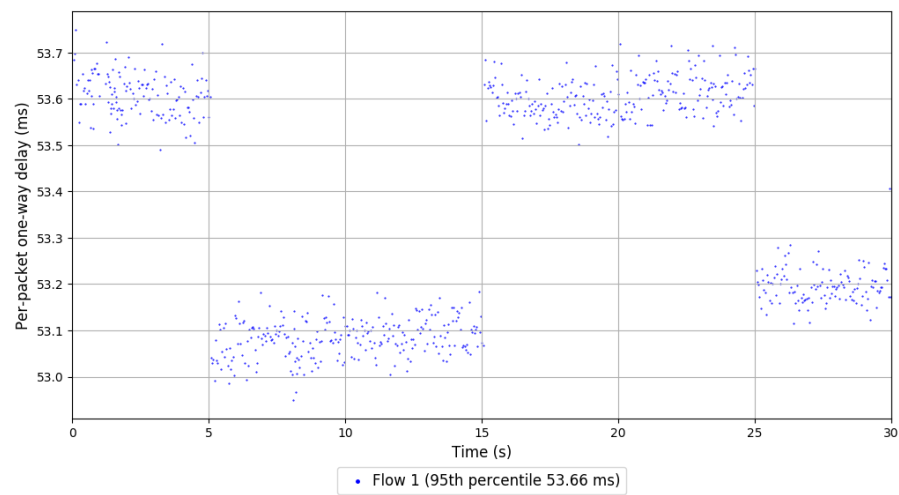
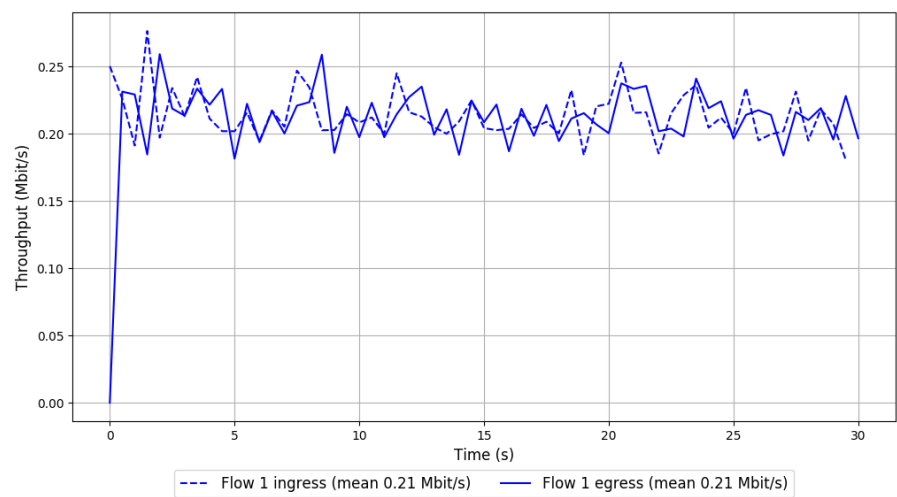


Run 9: Statistics of SCReAM

Start at: 2018-08-03 07:51:19  
End at: 2018-08-03 07:51:49  
Local clock offset: -0.052 ms  
Remote clock offset: -0.158 ms

# Below is generated by plot.py at 2018-08-03 10:06:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.664 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.664 ms  
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-08-03 08:13:37

End at: 2018-08-03 08:14:07

Local clock offset: 0.031 ms

Remote clock offset: -1.452 ms

# Below is generated by plot.py at 2018-08-03 10:06:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 52.383 ms

Loss rate: 0.00%

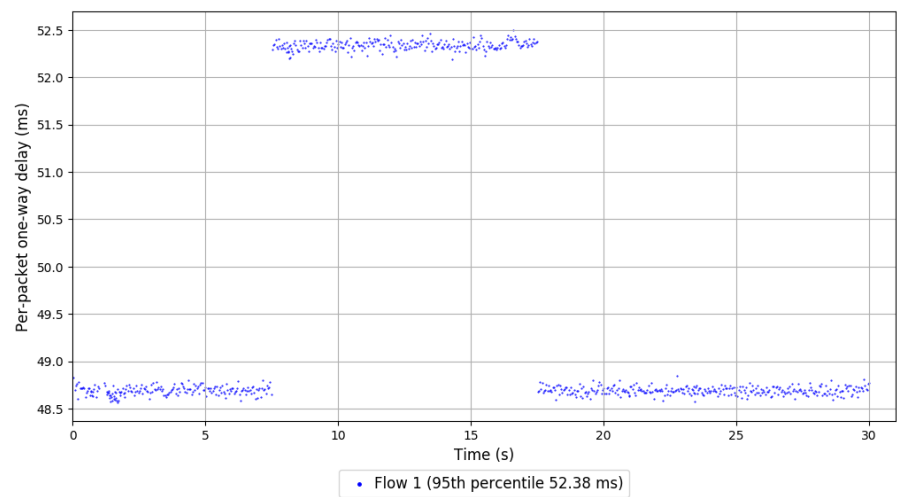
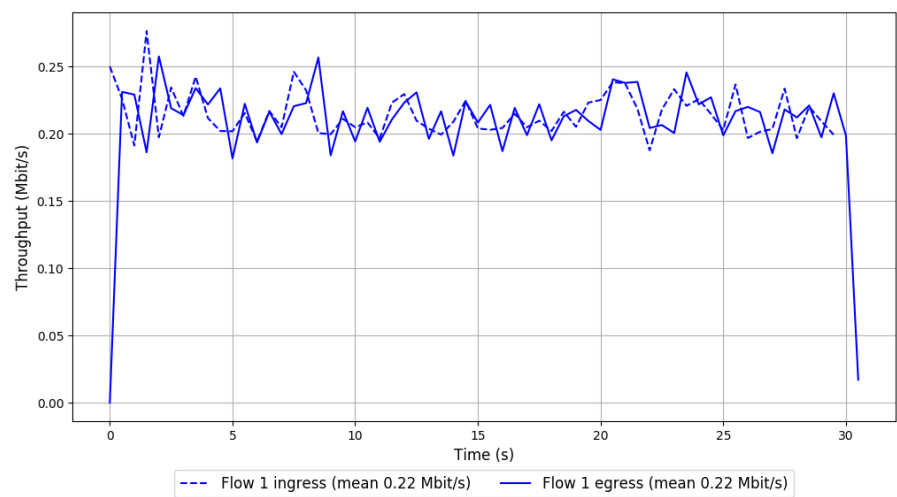
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 52.383 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

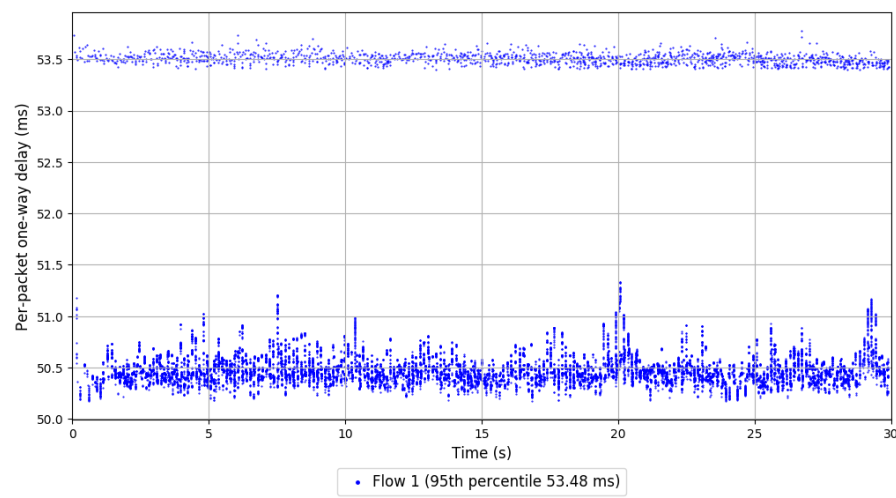
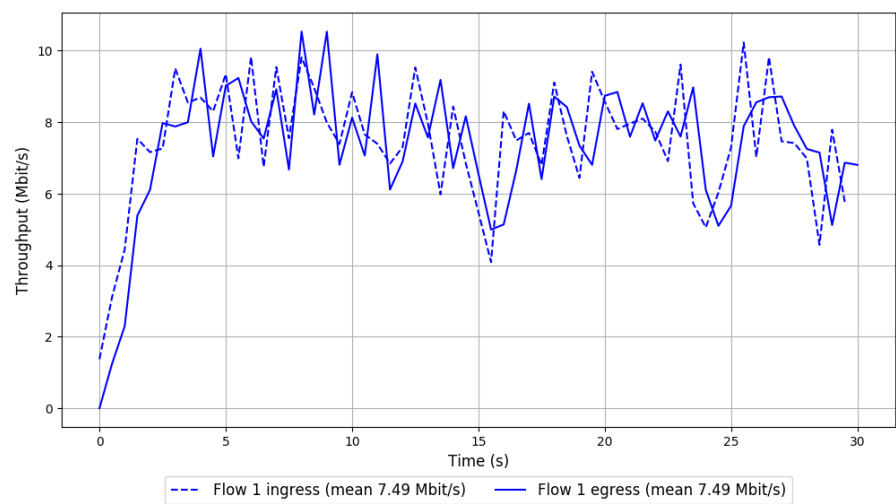


Run 1: Statistics of Sprout

Start at: 2018-08-03 05:00:20  
End at: 2018-08-03 05:00:50  
Local clock offset: 0.025 ms  
Remote clock offset: -0.201 ms

# Below is generated by plot.py at 2018-08-03 10:06:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.49 Mbit/s  
95th percentile per-packet one-way delay: 53.481 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 7.49 Mbit/s  
95th percentile per-packet one-way delay: 53.481 ms  
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

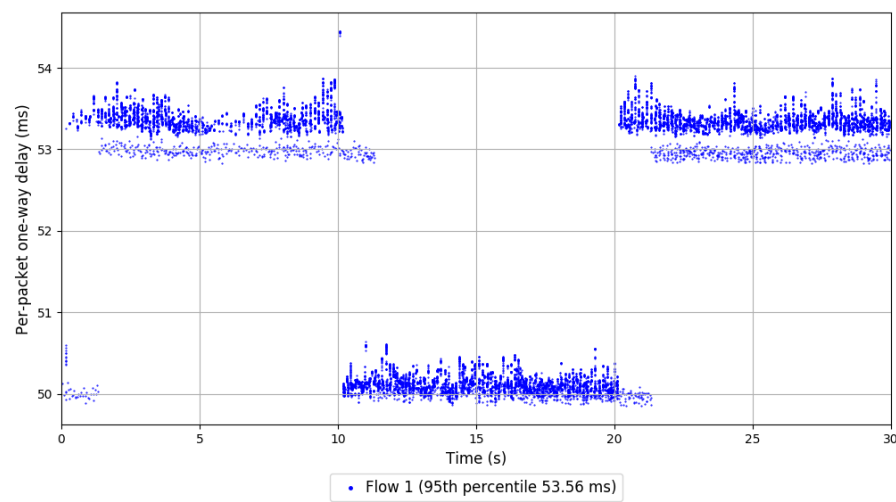
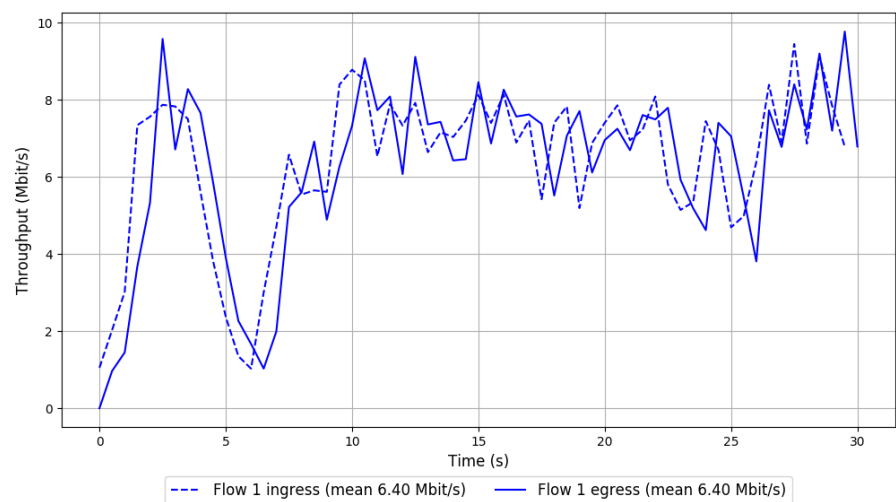


Run 2: Statistics of Sprout

Start at: 2018-08-03 05:22:53  
End at: 2018-08-03 05:23:23  
Local clock offset: 0.096 ms  
Remote clock offset: -0.387 ms

# Below is generated by plot.py at 2018-08-03 10:06:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 6.40 Mbit/s  
95th percentile per-packet one-way delay: 53.563 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 6.40 Mbit/s  
95th percentile per-packet one-way delay: 53.563 ms  
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-08-03 05:45:21

End at: 2018-08-03 05:45:51

Local clock offset: 0.012 ms

Remote clock offset: 0.124 ms

# Below is generated by plot.py at 2018-08-03 10:06:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.68 Mbit/s

95th percentile per-packet one-way delay: 54.279 ms

Loss rate: 0.00%

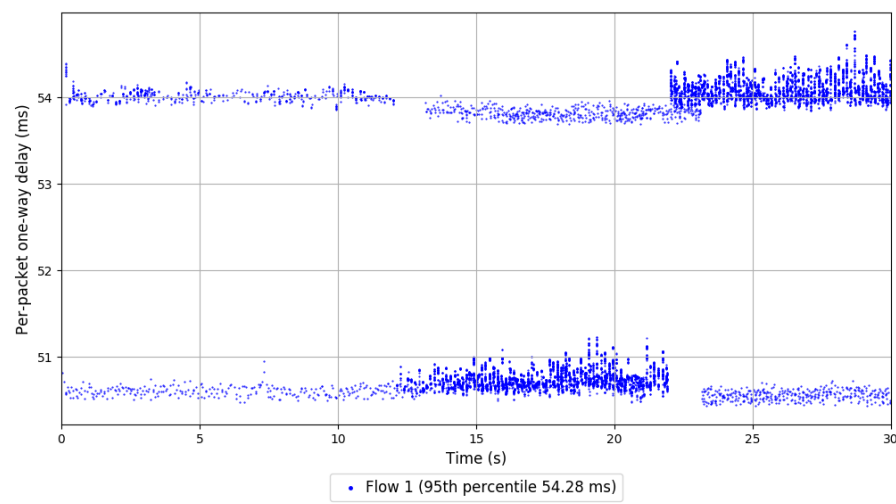
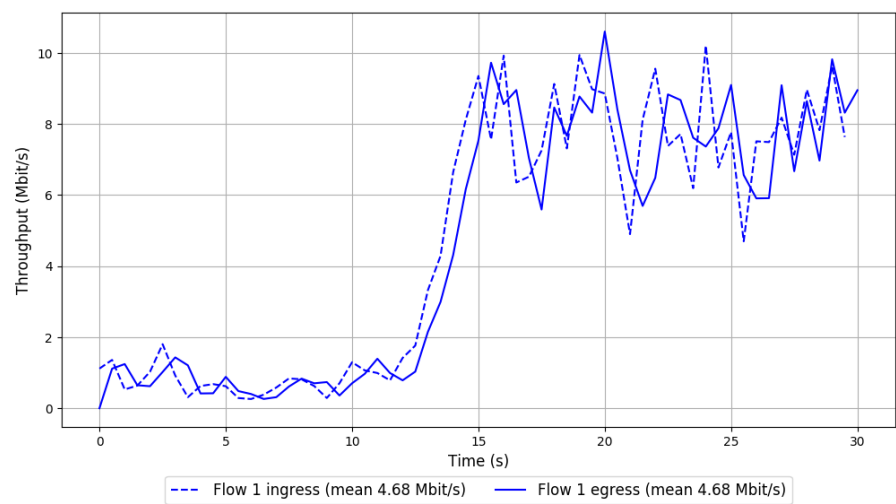
-- Flow 1:

Average throughput: 4.68 Mbit/s

95th percentile per-packet one-way delay: 54.279 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

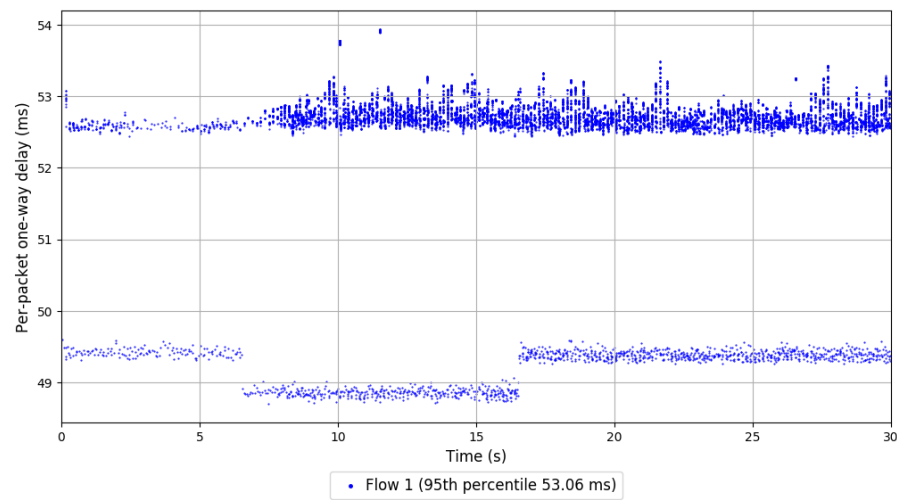
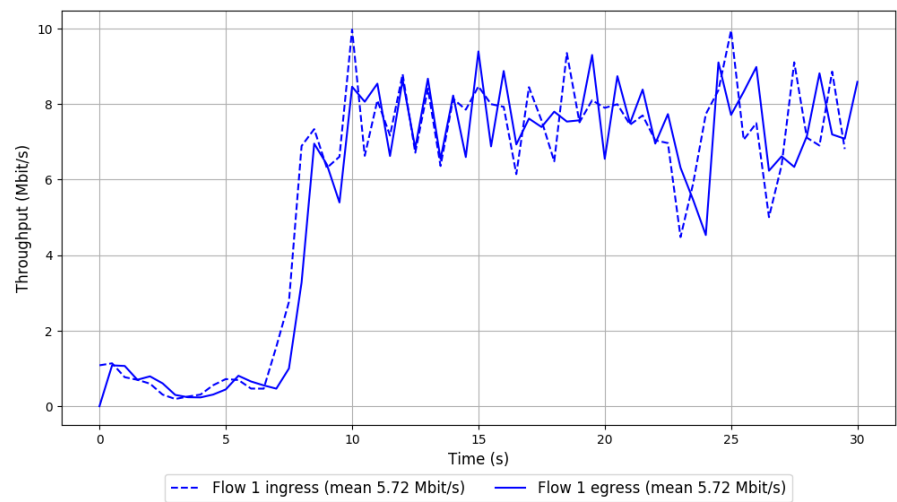


Run 4: Statistics of Sprout

Start at: 2018-08-03 06:07:08  
End at: 2018-08-03 06:07:38  
Local clock offset: -0.1 ms  
Remote clock offset: -1.372 ms

# Below is generated by plot.py at 2018-08-03 10:06:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 5.72 Mbit/s  
95th percentile per-packet one-way delay: 53.061 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 5.72 Mbit/s  
95th percentile per-packet one-way delay: 53.061 ms  
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

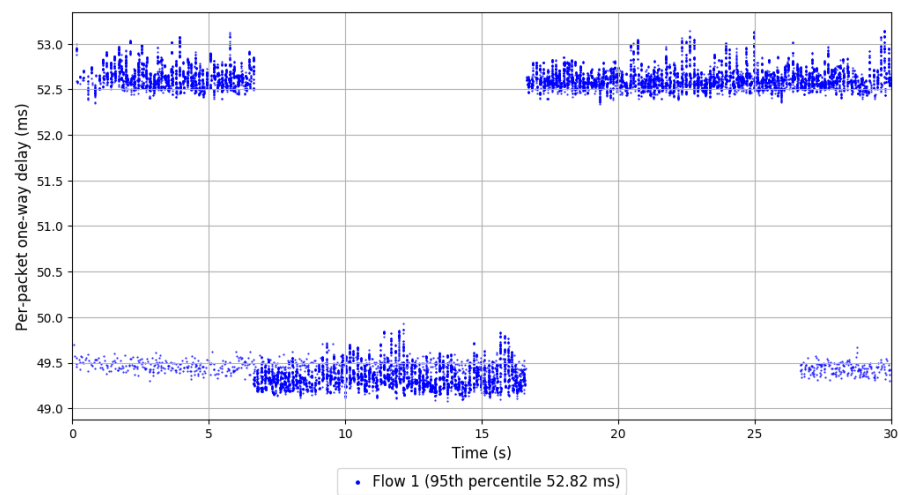
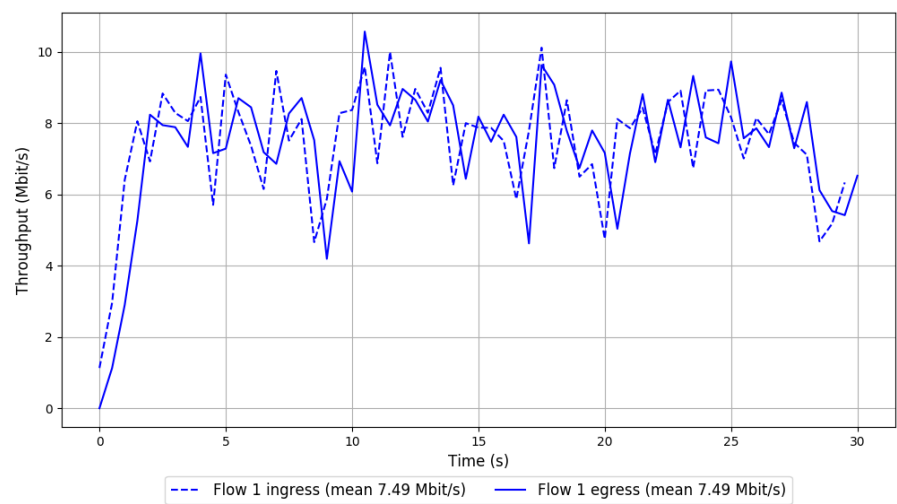


Run 5: Statistics of Sprout

Start at: 2018-08-03 06:29:36  
End at: 2018-08-03 06:30:06  
Local clock offset: 0.004 ms  
Remote clock offset: -1.355 ms

# Below is generated by plot.py at 2018-08-03 10:06:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.49 Mbit/s  
95th percentile per-packet one-way delay: 52.817 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 7.49 Mbit/s  
95th percentile per-packet one-way delay: 52.817 ms  
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

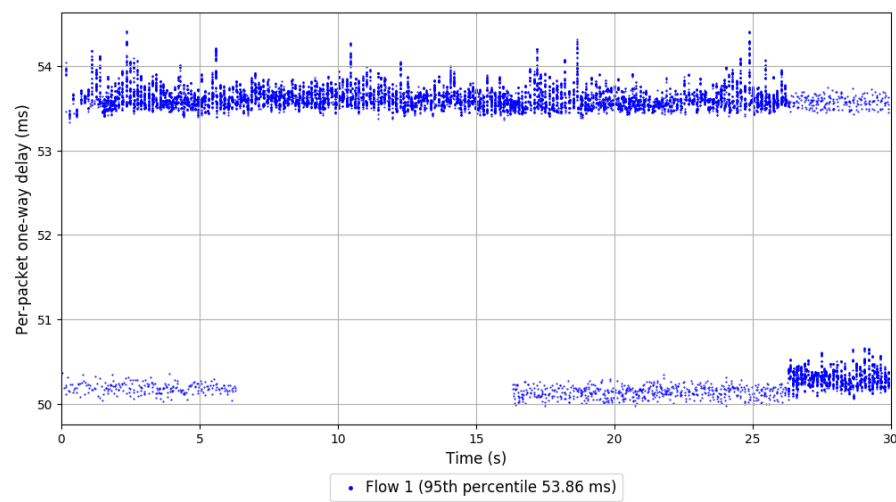
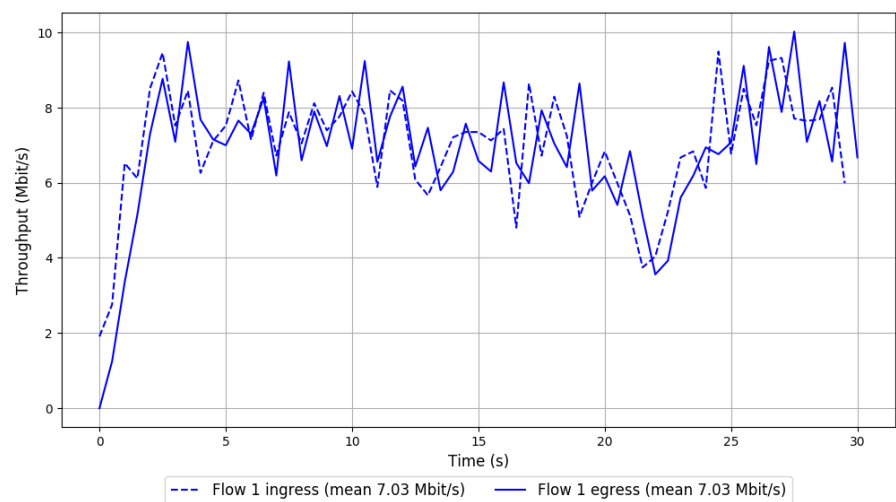


Run 6: Statistics of Sprout

Start at: 2018-08-03 06:51:37  
End at: 2018-08-03 06:52:07  
Local clock offset: 0.118 ms  
Remote clock offset: -0.243 ms

# Below is generated by plot.py at 2018-08-03 10:06:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.03 Mbit/s  
95th percentile per-packet one-way delay: 53.862 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 7.03 Mbit/s  
95th percentile per-packet one-way delay: 53.862 ms  
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

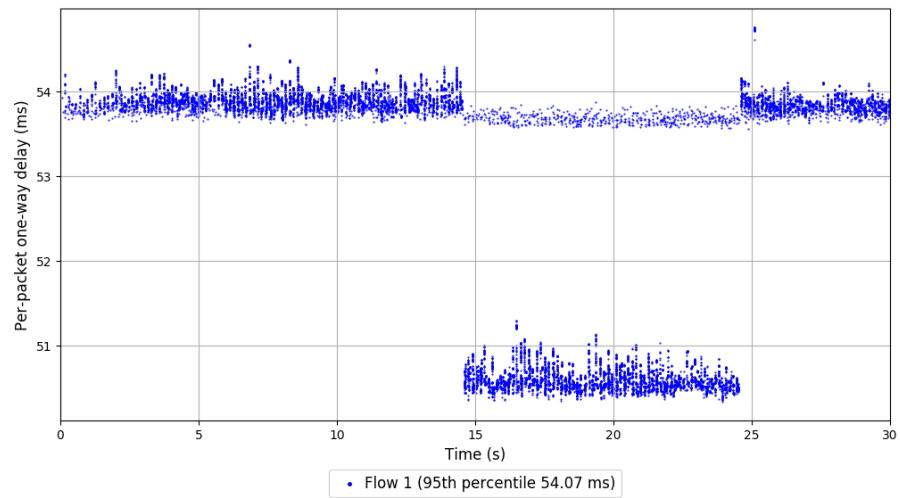
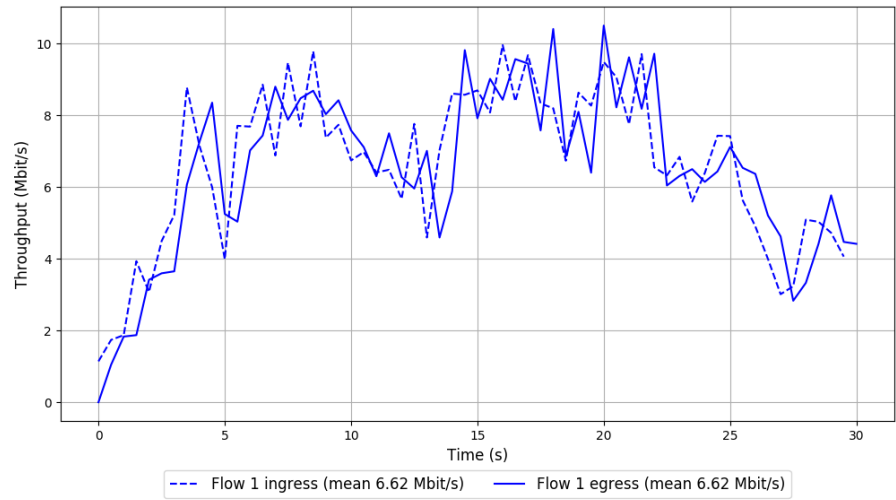


Run 7: Statistics of Sprout

Start at: 2018-08-03 07:13:38  
End at: 2018-08-03 07:14:08  
Local clock offset: -0.147 ms  
Remote clock offset: -0.137 ms

# Below is generated by plot.py at 2018-08-03 10:06:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 6.62 Mbit/s  
95th percentile per-packet one-way delay: 54.066 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 6.62 Mbit/s  
95th percentile per-packet one-way delay: 54.066 ms  
Loss rate: 0.00%

## Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-08-03 07:36:09

End at: 2018-08-03 07:36:39

Local clock offset: -0.087 ms

Remote clock offset: -0.54 ms

# Below is generated by plot.py at 2018-08-03 10:06:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.16 Mbit/s

95th percentile per-packet one-way delay: 53.216 ms

Loss rate: 0.00%

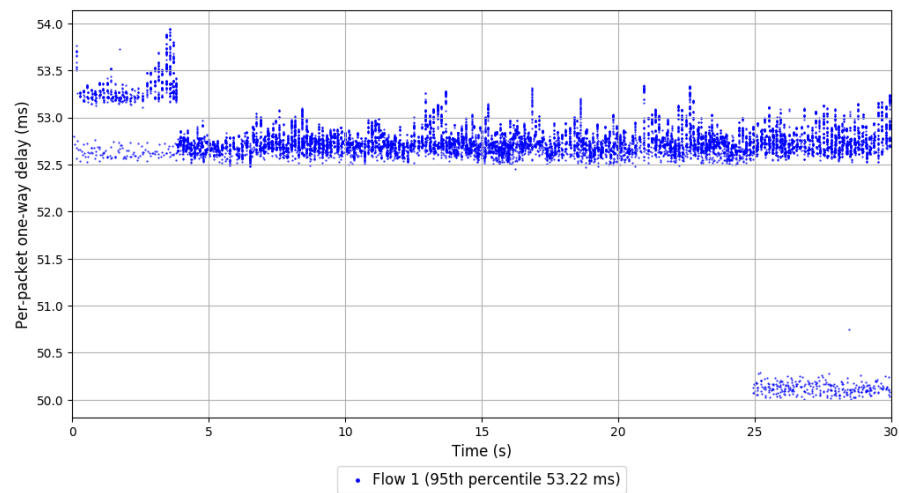
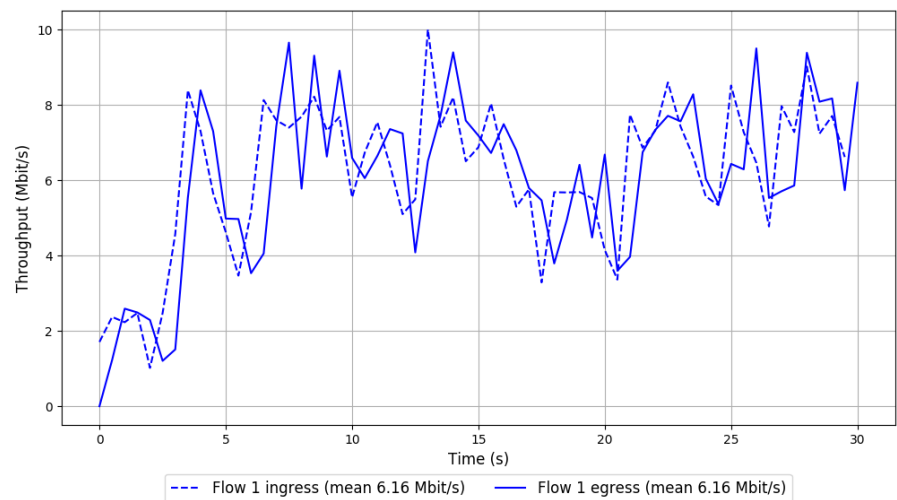
-- Flow 1:

Average throughput: 6.16 Mbit/s

95th percentile per-packet one-way delay: 53.216 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

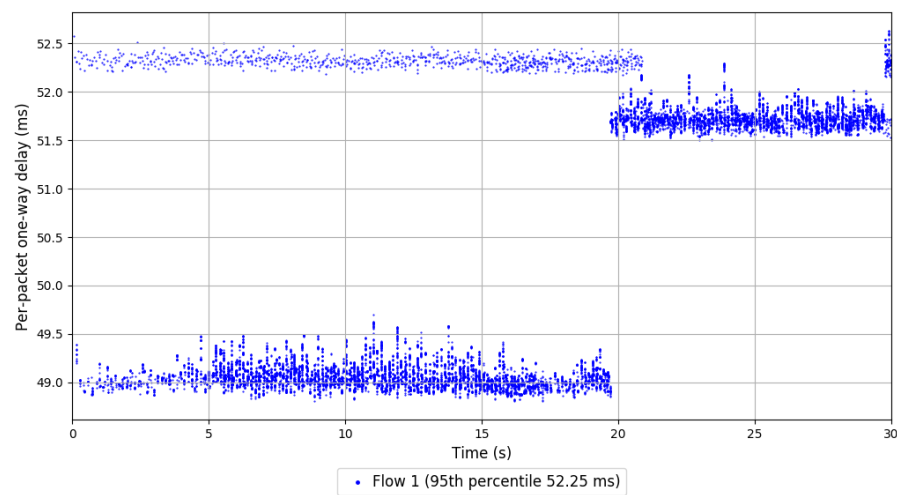
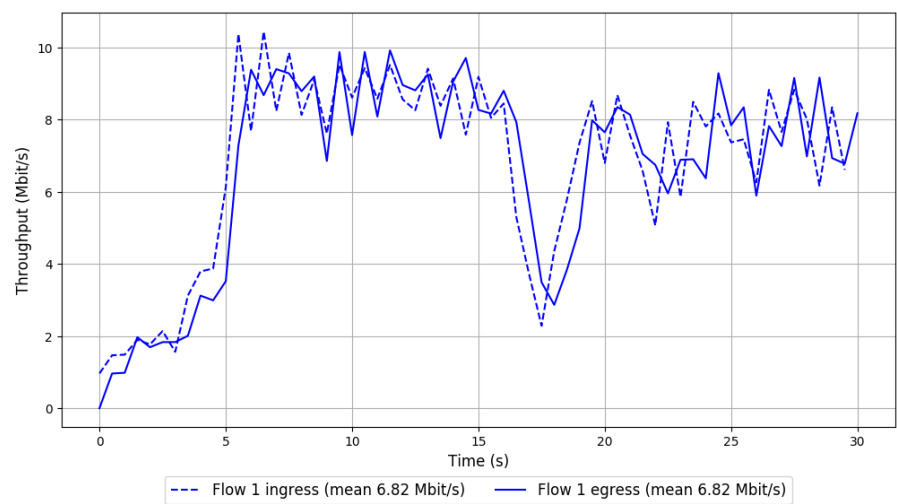


Run 9: Statistics of Sprout

Start at: 2018-08-03 07:58:13  
End at: 2018-08-03 07:58:43  
Local clock offset: 0.031 ms  
Remote clock offset: -1.395 ms

# Below is generated by plot.py at 2018-08-03 10:06:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 6.82 Mbit/s  
95th percentile per-packet one-way delay: 52.252 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 6.82 Mbit/s  
95th percentile per-packet one-way delay: 52.252 ms  
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

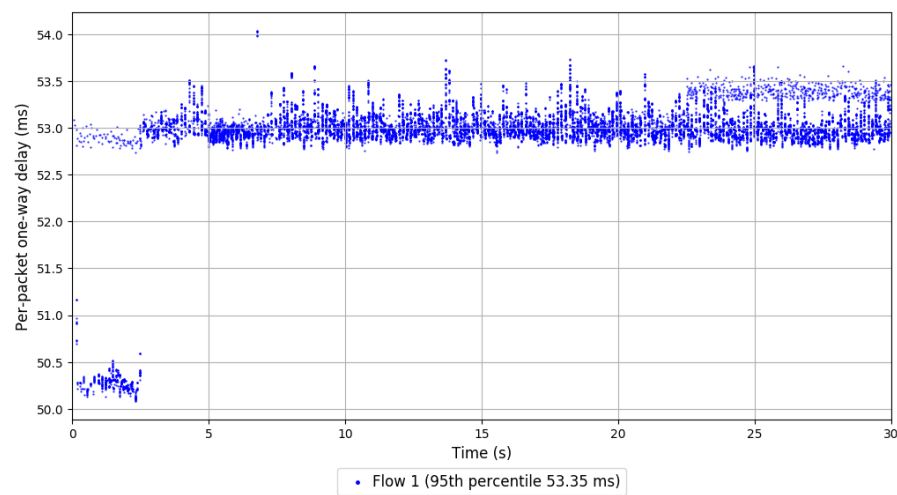
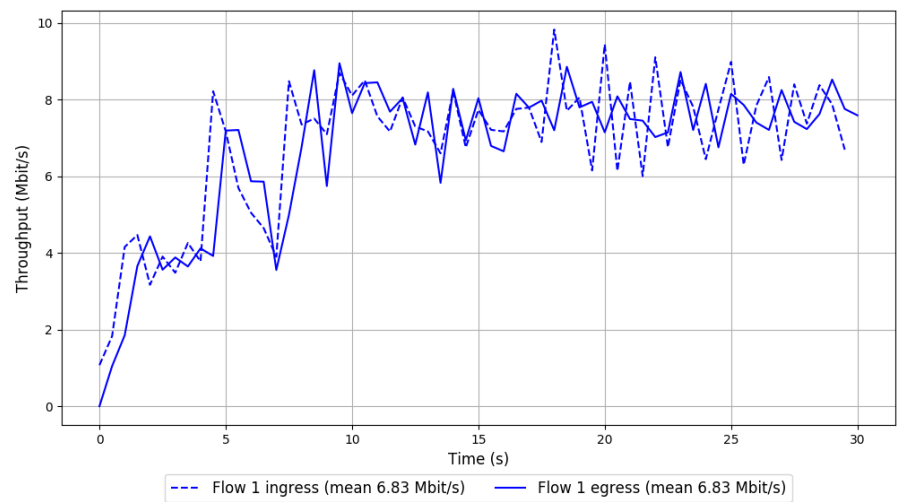


Run 10: Statistics of Sprout

Start at: 2018-08-03 08:20:41  
End at: 2018-08-03 08:21:11  
Local clock offset: 0.067 ms  
Remote clock offset: -0.139 ms

# Below is generated by plot.py at 2018-08-03 10:06:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 6.83 Mbit/s  
95th percentile per-packet one-way delay: 53.353 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 6.83 Mbit/s  
95th percentile per-packet one-way delay: 53.353 ms  
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

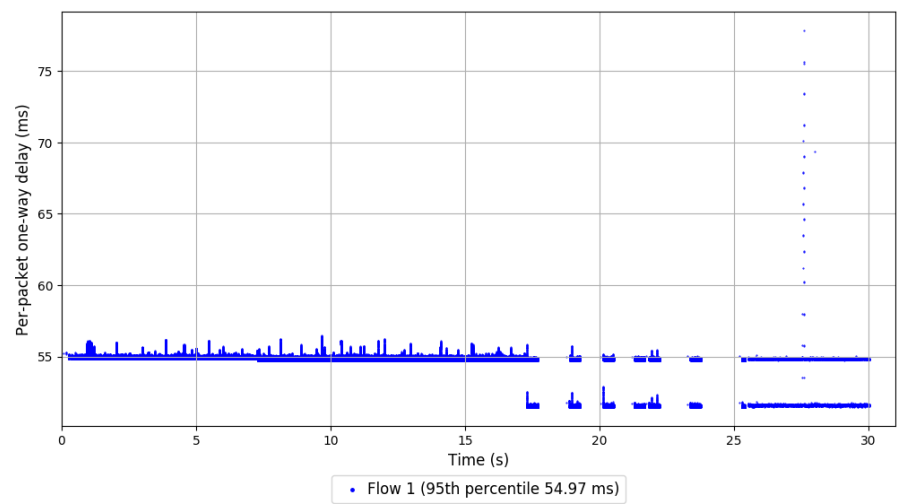
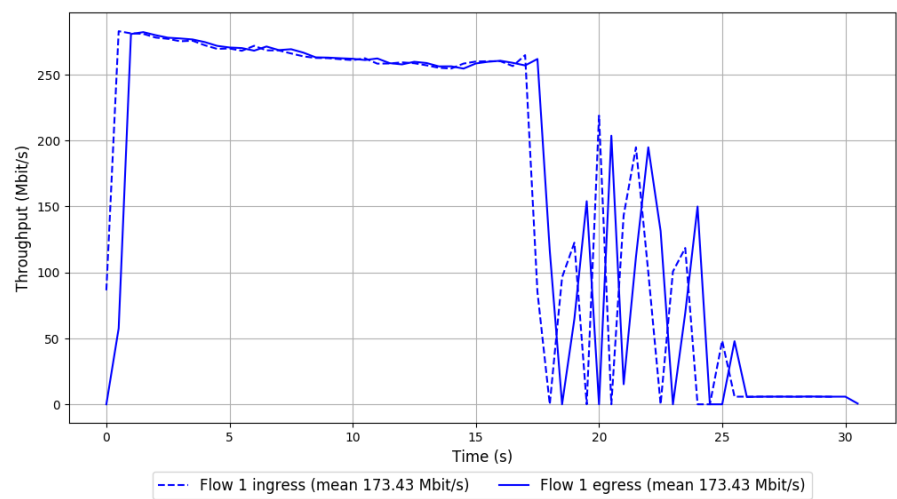


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-08-03 04:54:16
End at: 2018-08-03 04:54:46
Local clock offset: -0.057 ms
Remote clock offset: 1.058 ms

# Below is generated by plot.py at 2018-08-03 10:06:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 173.43 Mbit/s
95th percentile per-packet one-way delay: 54.974 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 173.43 Mbit/s
95th percentile per-packet one-way delay: 54.974 ms
Loss rate: 0.00%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-08-03 05:16:45

End at: 2018-08-03 05:17:15

Local clock offset: 0.066 ms

Remote clock offset: -0.154 ms

# Below is generated by plot.py at 2018-08-03 10:06:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 240.46 Mbit/s

95th percentile per-packet one-way delay: 53.649 ms

Loss rate: 0.00%

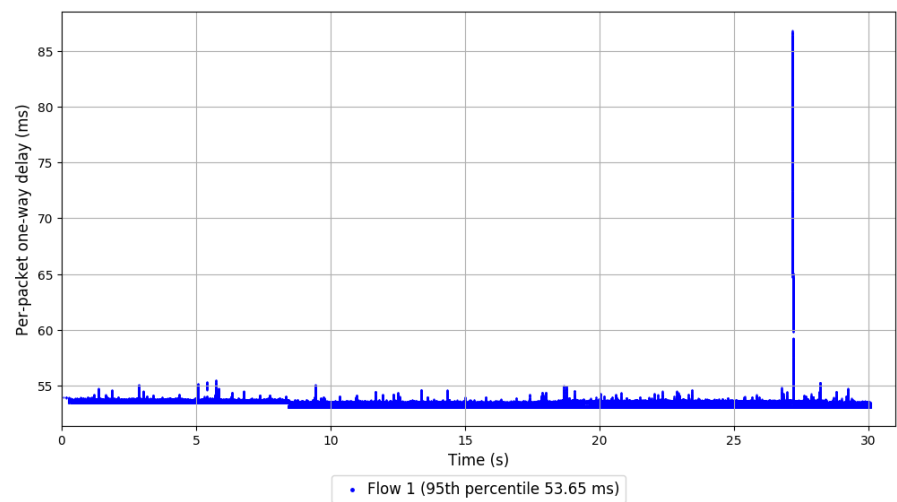
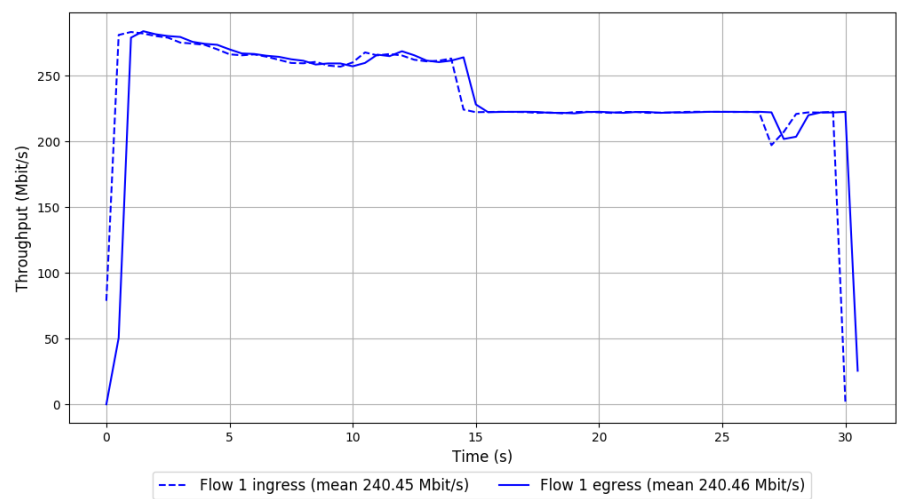
-- Flow 1:

Average throughput: 240.46 Mbit/s

95th percentile per-packet one-way delay: 53.649 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-08-03 05:39:15

End at: 2018-08-03 05:39:45

Local clock offset: 0.036 ms

Remote clock offset: -0.411 ms

# Below is generated by plot.py at 2018-08-03 10:07:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 251.06 Mbit/s

95th percentile per-packet one-way delay: 53.308 ms

Loss rate: 0.00%

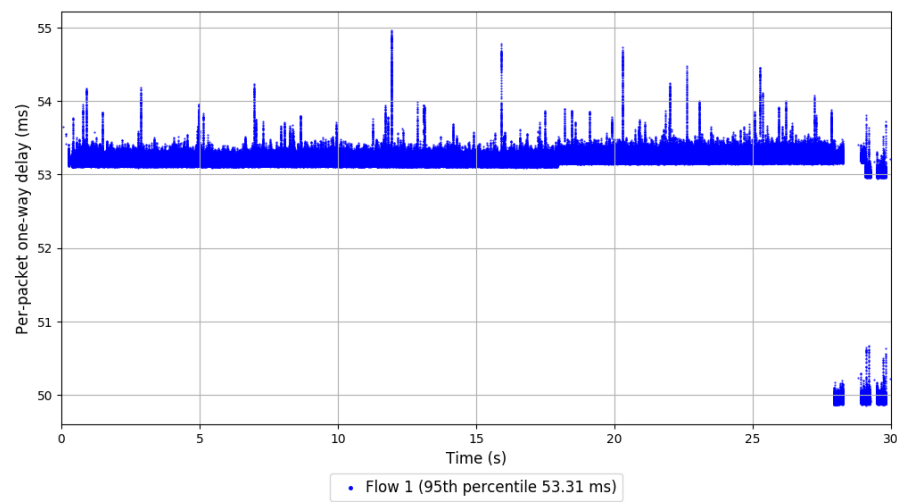
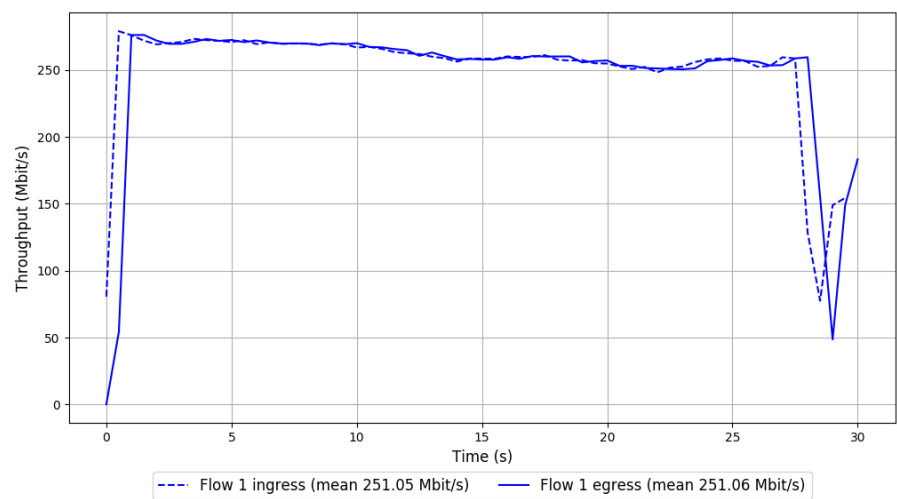
-- Flow 1:

Average throughput: 251.06 Mbit/s

95th percentile per-packet one-way delay: 53.308 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-08-03 06:01:17

End at: 2018-08-03 06:01:47

Local clock offset: 0.094 ms

Remote clock offset: -0.22 ms

# Below is generated by plot.py at 2018-08-03 10:07:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.26 Mbit/s

95th percentile per-packet one-way delay: 53.488 ms

Loss rate: 0.00%

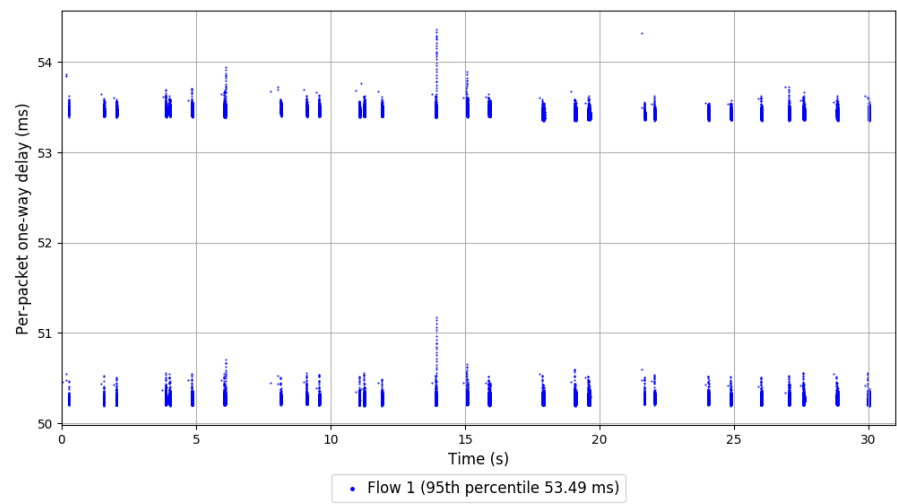
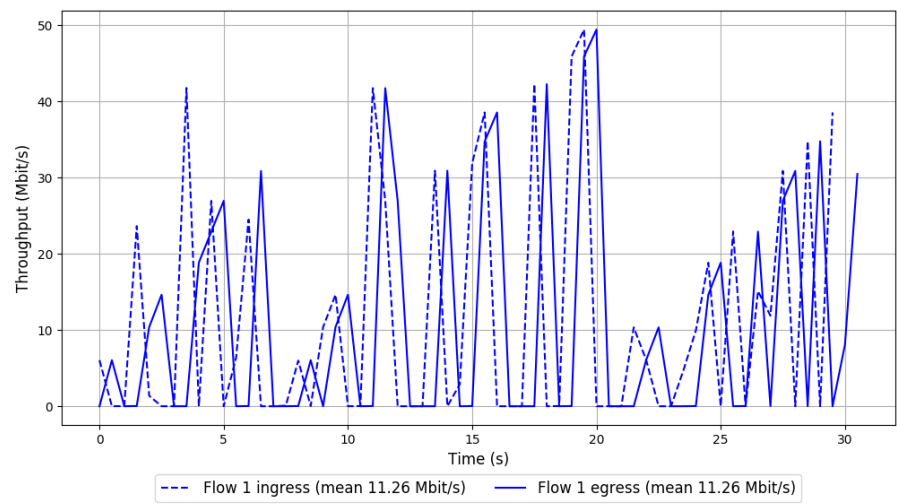
-- Flow 1:

Average throughput: 11.26 Mbit/s

95th percentile per-packet one-way delay: 53.488 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-08-03 06:23:33

End at: 2018-08-03 06:24:03

Local clock offset: -0.003 ms

Remote clock offset: -1.5 ms

# Below is generated by plot.py at 2018-08-03 10:07:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 196.95 Mbit/s

95th percentile per-packet one-way delay: 52.292 ms

Loss rate: 0.00%

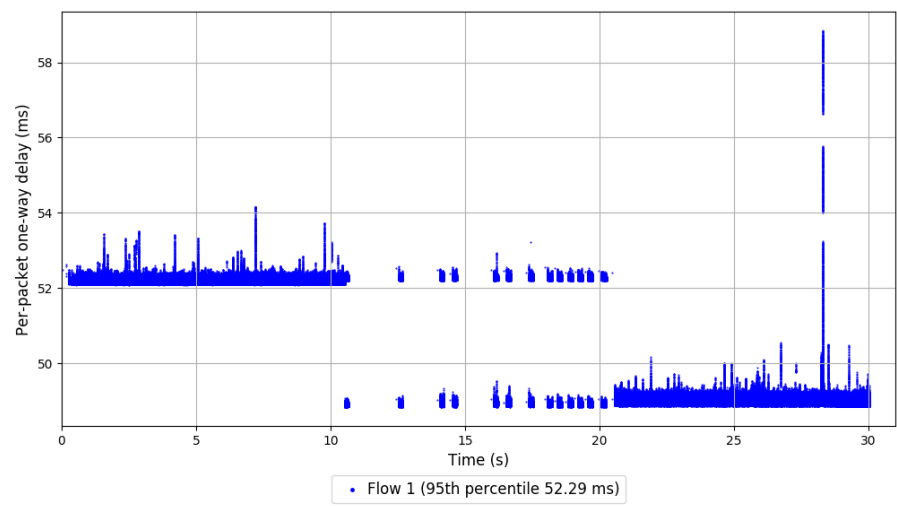
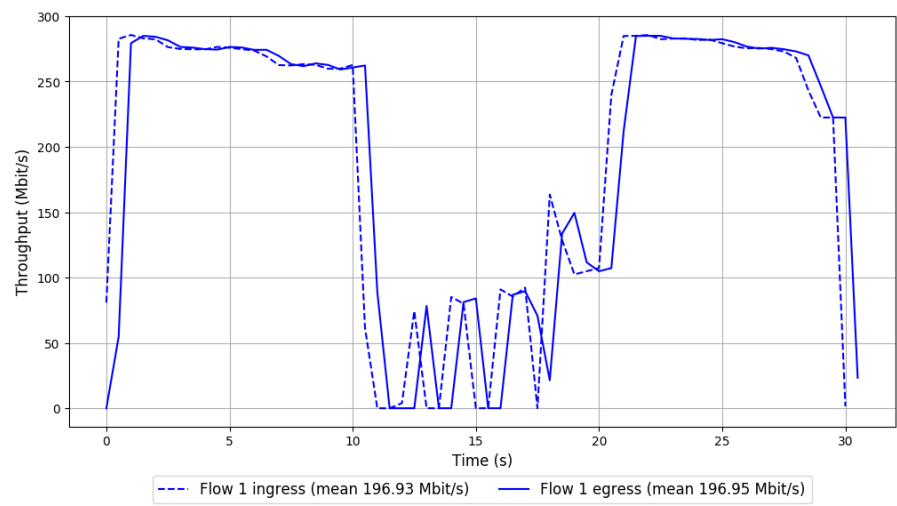
-- Flow 1:

Average throughput: 196.95 Mbit/s

95th percentile per-packet one-way delay: 52.292 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-08-03 06:45:49

End at: 2018-08-03 06:46:19

Local clock offset: -0.081 ms

Remote clock offset: -0.27 ms

# Below is generated by plot.py at 2018-08-03 10:07:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 16.80 Mbit/s

95th percentile per-packet one-way delay: 53.621 ms

Loss rate: 0.00%

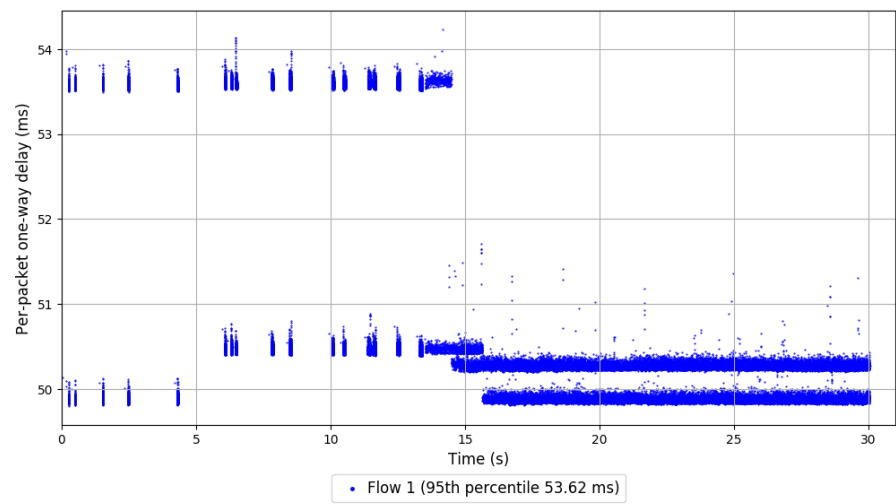
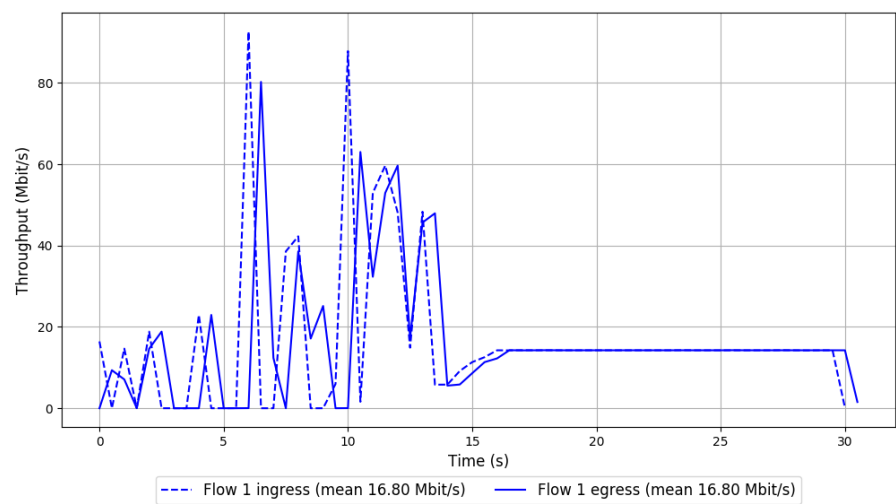
-- Flow 1:

Average throughput: 16.80 Mbit/s

95th percentile per-packet one-way delay: 53.621 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-08-03 07:07:49

End at: 2018-08-03 07:08:19

Local clock offset: 0.141 ms

Remote clock offset: -0.312 ms

# Below is generated by plot.py at 2018-08-03 10:07:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 15.71 Mbit/s

95th percentile per-packet one-way delay: 53.284 ms

Loss rate: 0.00%

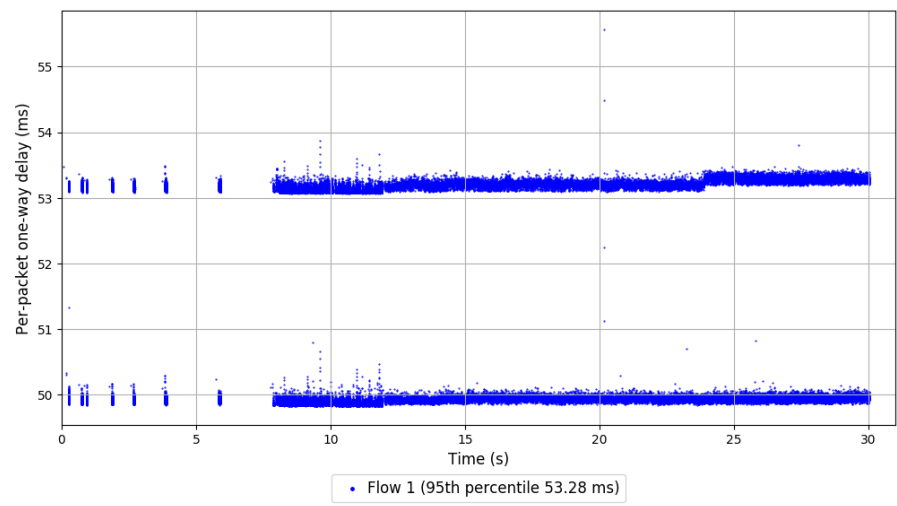
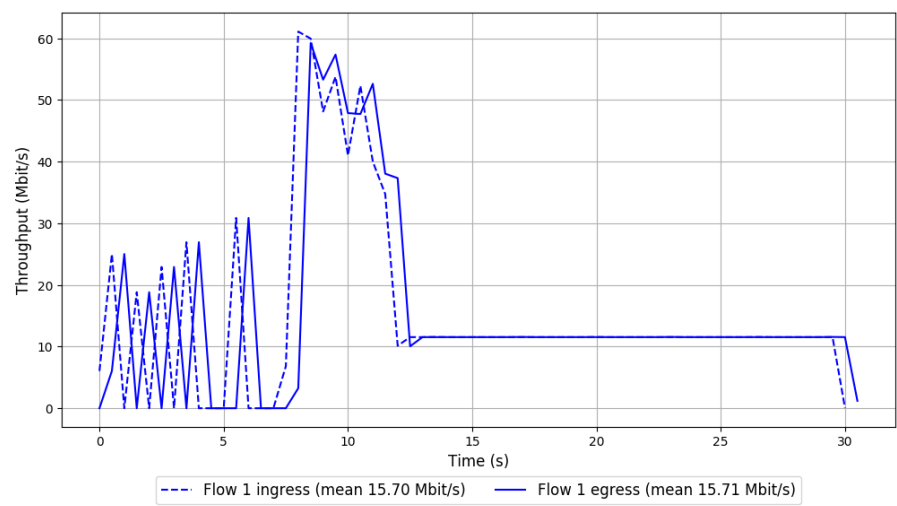
-- Flow 1:

Average throughput: 15.71 Mbit/s

95th percentile per-packet one-way delay: 53.284 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-08-03 07:30:04

End at: 2018-08-03 07:30:34

Local clock offset: 0.002 ms

Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2018-08-03 10:12:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 256.60 Mbit/s

95th percentile per-packet one-way delay: 53.590 ms

Loss rate: 0.00%

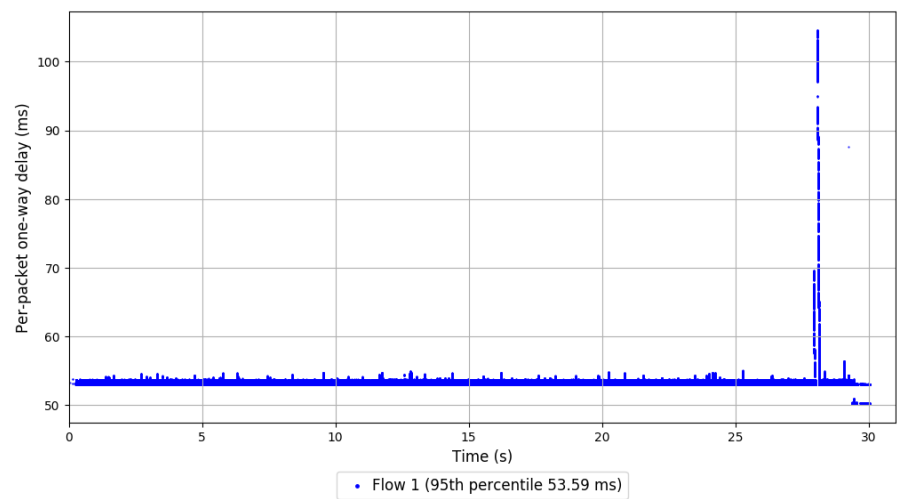
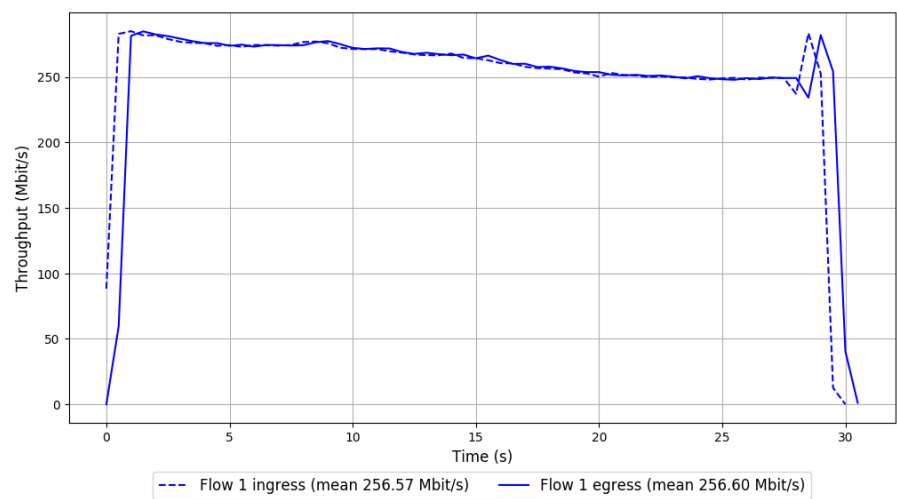
-- Flow 1:

Average throughput: 256.60 Mbit/s

95th percentile per-packet one-way delay: 53.590 ms

Loss rate: 0.00%

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

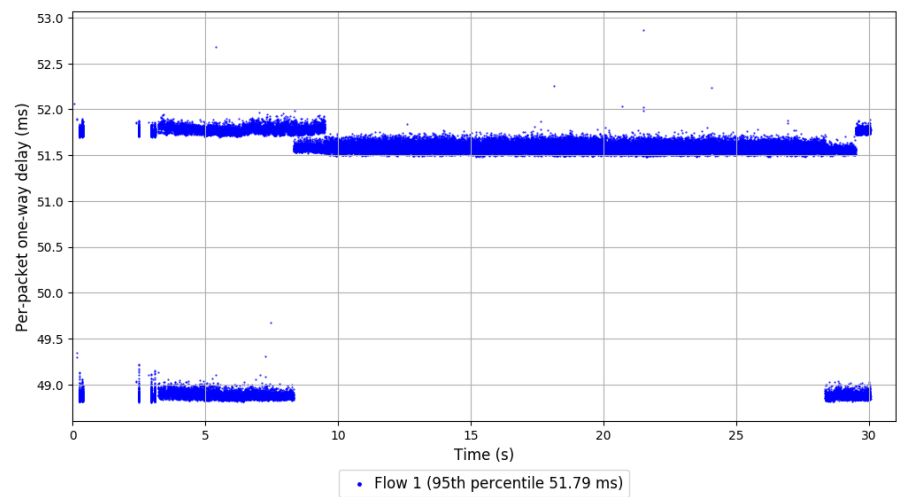
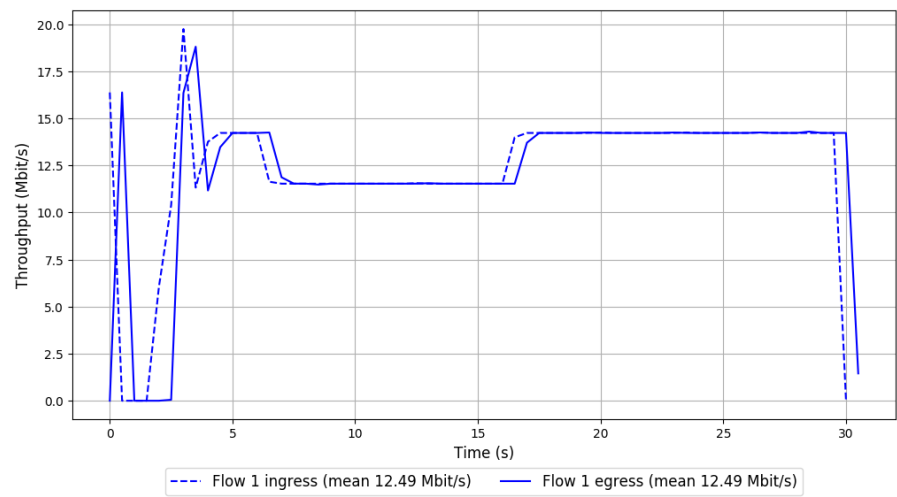


Run 9: Statistics of TaoVA-100x

Start at: 2018-08-03 07:52:25  
End at: 2018-08-03 07:52:55  
Local clock offset: -0.119 ms  
Remote clock offset: -1.502 ms

# Below is generated by plot.py at 2018-08-03 10:12:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.49 Mbit/s  
95th percentile per-packet one-way delay: 51.787 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 12.49 Mbit/s  
95th percentile per-packet one-way delay: 51.787 ms  
Loss rate: 0.00%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-08-03 08:14:42

End at: 2018-08-03 08:15:12

Local clock offset: -0.079 ms

Remote clock offset: -1.478 ms

# Below is generated by plot.py at 2018-08-03 10:12:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 148.74 Mbit/s

95th percentile per-packet one-way delay: 48.940 ms

Loss rate: 0.00%

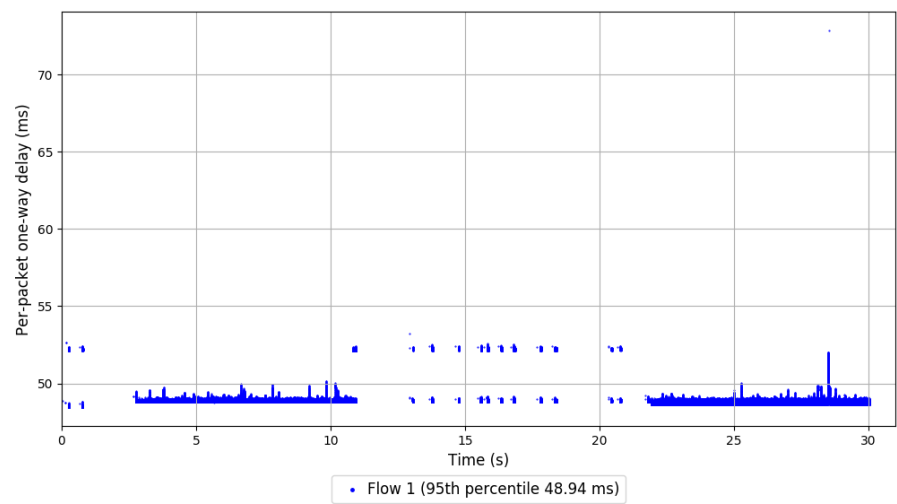
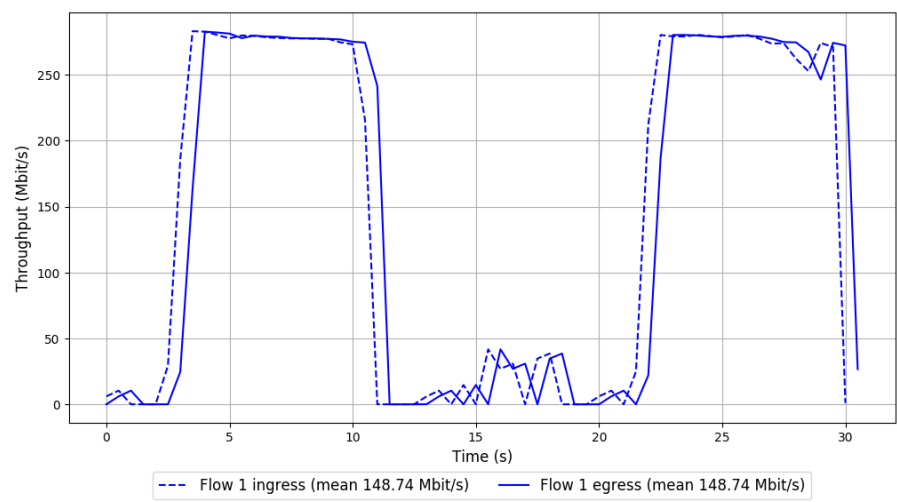
-- Flow 1:

Average throughput: 148.74 Mbit/s

95th percentile per-packet one-way delay: 48.940 ms

Loss rate: 0.00%

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

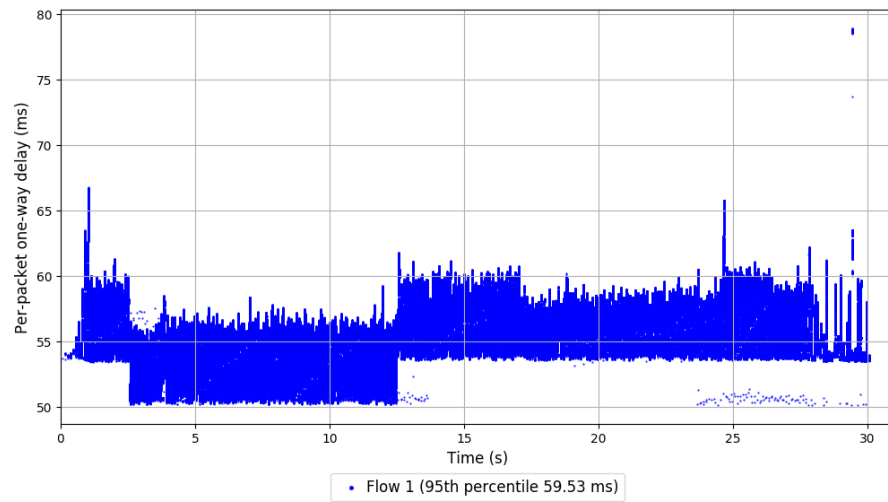
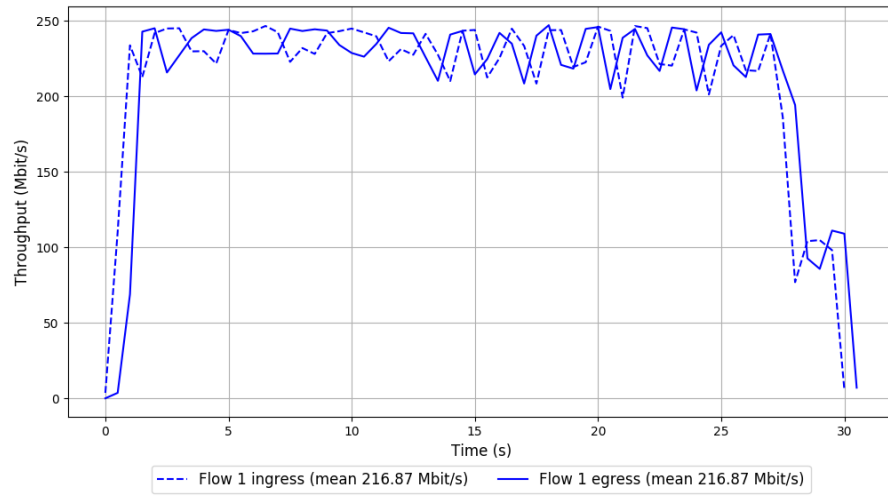


Run 1: Statistics of TCP Vegas

Start at: 2018-08-03 04:56:51  
End at: 2018-08-03 04:57:21  
Local clock offset: 0.052 ms  
Remote clock offset: -0.162 ms

# Below is generated by plot.py at 2018-08-03 10:12:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 216.87 Mbit/s  
95th percentile per-packet one-way delay: 59.530 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 216.87 Mbit/s  
95th percentile per-packet one-way delay: 59.530 ms  
Loss rate: 0.00%

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

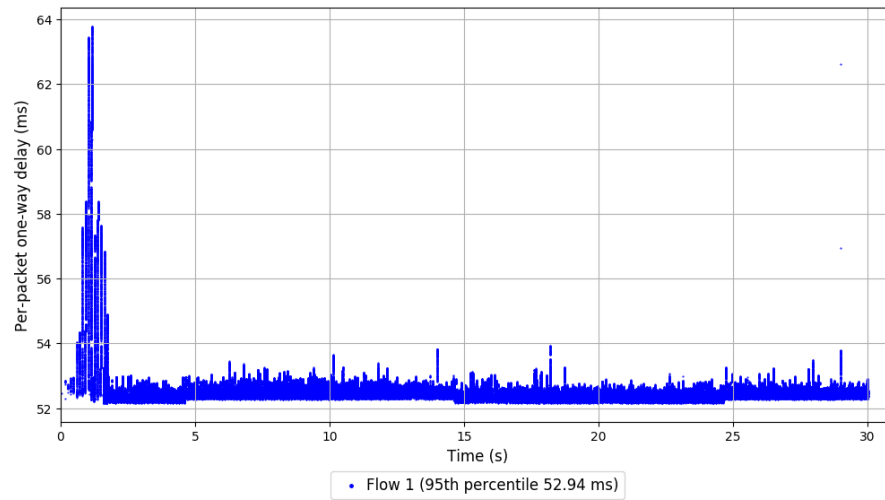
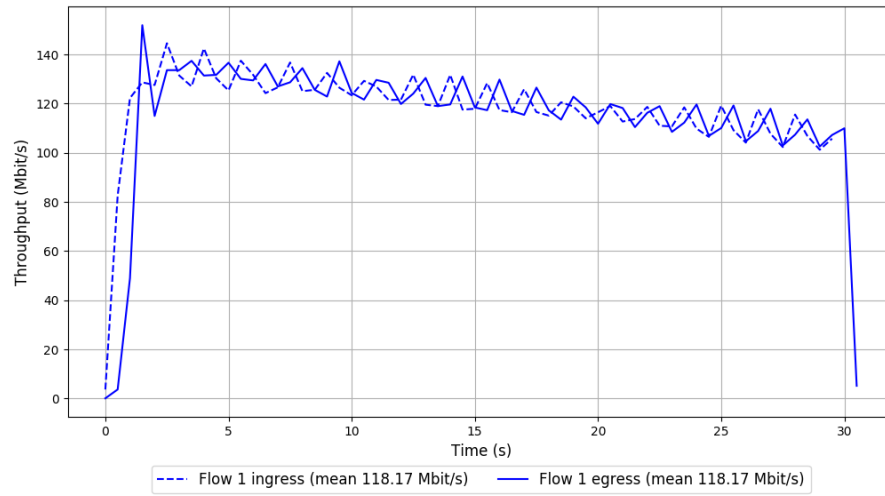


Run 2: Statistics of TCP Vegas

Start at: 2018-08-03 05:19:28  
End at: 2018-08-03 05:19:58  
Local clock offset: -0.019 ms  
Remote clock offset: -1.426 ms

# Below is generated by plot.py at 2018-08-03 10:12:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 118.17 Mbit/s  
95th percentile per-packet one-way delay: 52.935 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 118.17 Mbit/s  
95th percentile per-packet one-way delay: 52.935 ms  
Loss rate: 0.00%

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

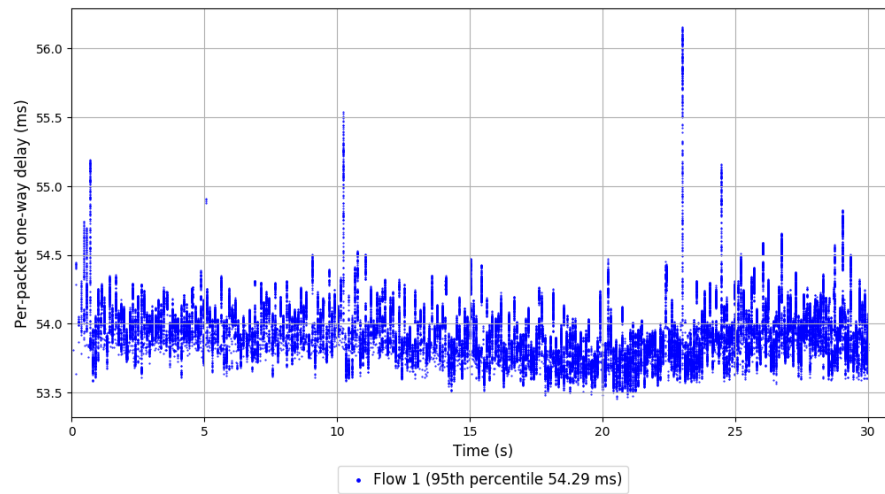
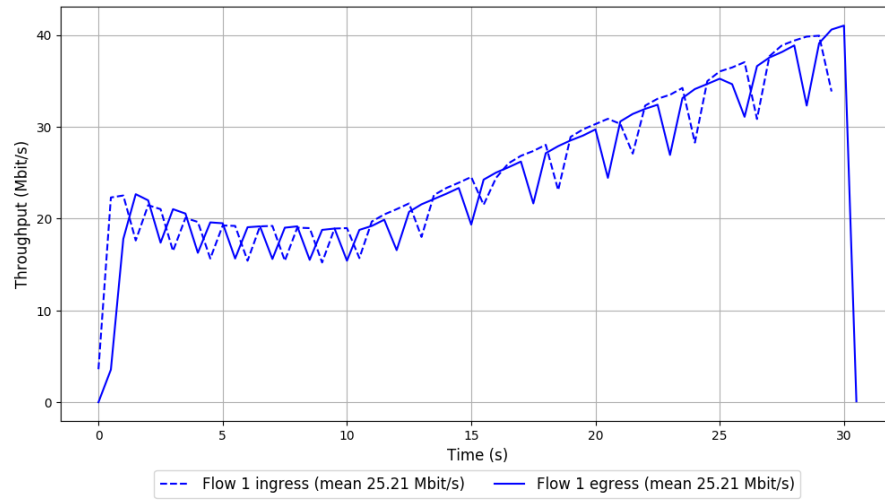


Run 3: Statistics of TCP Vegas

Start at: 2018-08-03 05:42:01  
End at: 2018-08-03 05:42:31  
Local clock offset: -0.055 ms  
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2018-08-03 10:12:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 25.21 Mbit/s  
95th percentile per-packet one-way delay: 54.293 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 25.21 Mbit/s  
95th percentile per-packet one-way delay: 54.293 ms  
Loss rate: 0.00%

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

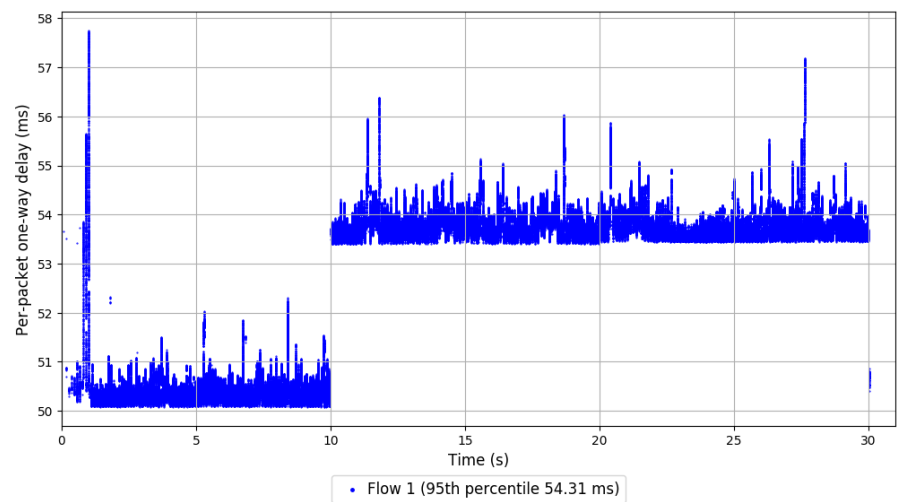
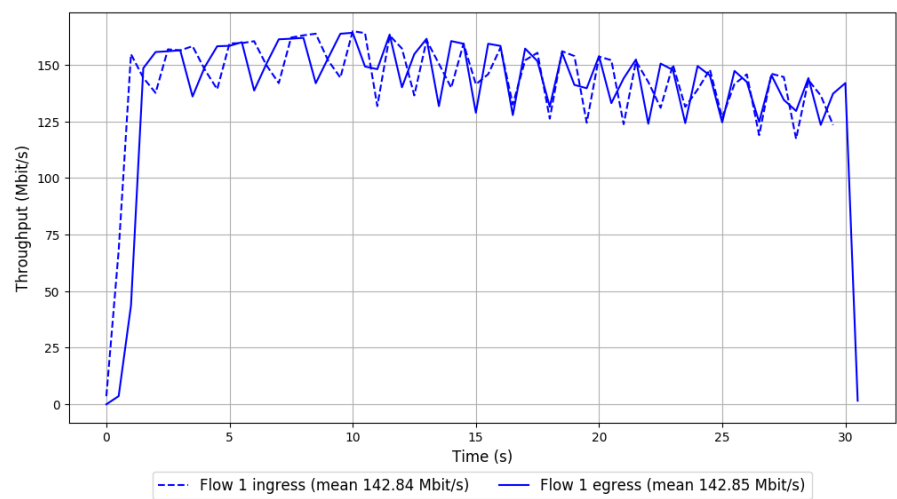


Run 4: Statistics of TCP Vegas

Start at: 2018-08-03 06:03:43  
End at: 2018-08-03 06:04:13  
Local clock offset: 0.067 ms  
Remote clock offset: -0.185 ms

# Below is generated by plot.py at 2018-08-03 10:12:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 142.85 Mbit/s  
95th percentile per-packet one-way delay: 54.310 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 142.85 Mbit/s  
95th percentile per-packet one-way delay: 54.310 ms  
Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link

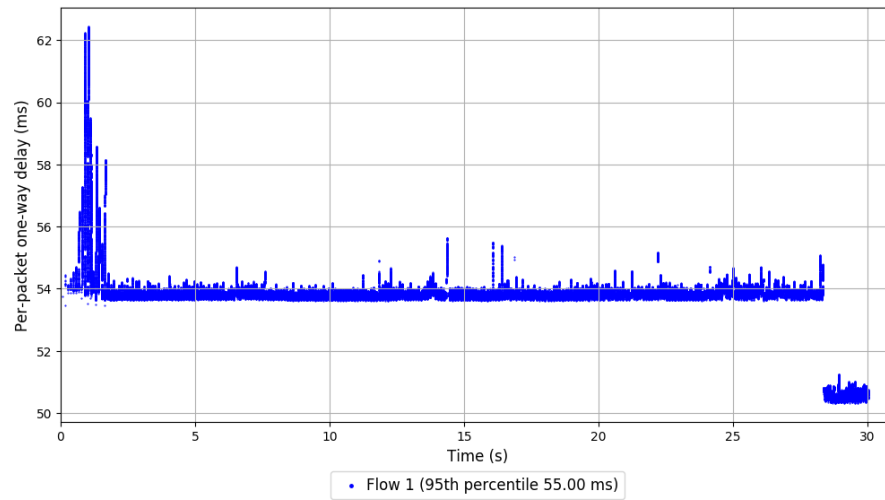
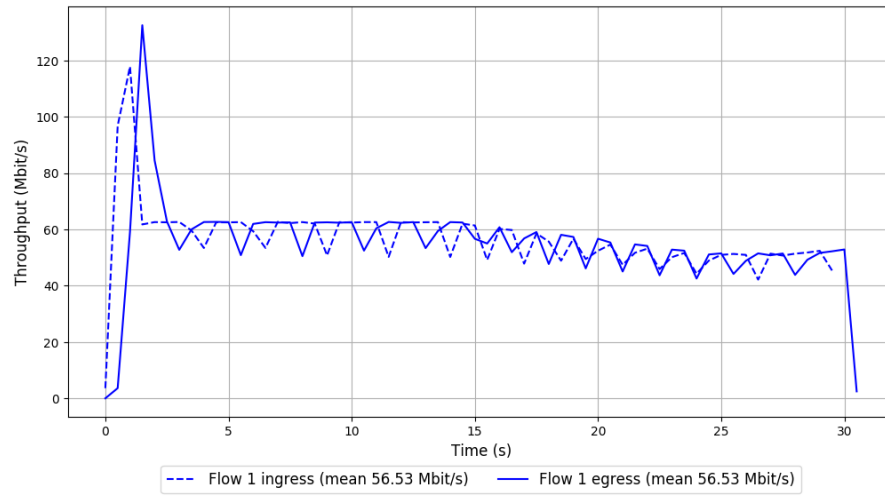


Run 5: Statistics of TCP Vegas

Start at: 2018-08-03 06:26:15  
End at: 2018-08-03 06:26:45  
Local clock offset: -0.11 ms  
Remote clock offset: -0.154 ms

# Below is generated by plot.py at 2018-08-03 10:12:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 56.53 Mbit/s  
95th percentile per-packet one-way delay: 55.003 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 56.53 Mbit/s  
95th percentile per-packet one-way delay: 55.003 ms  
Loss rate: 0.00%

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

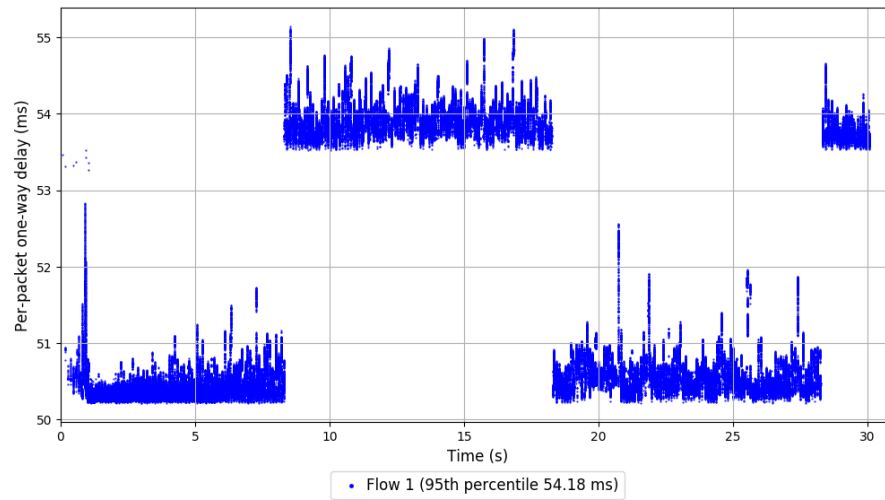
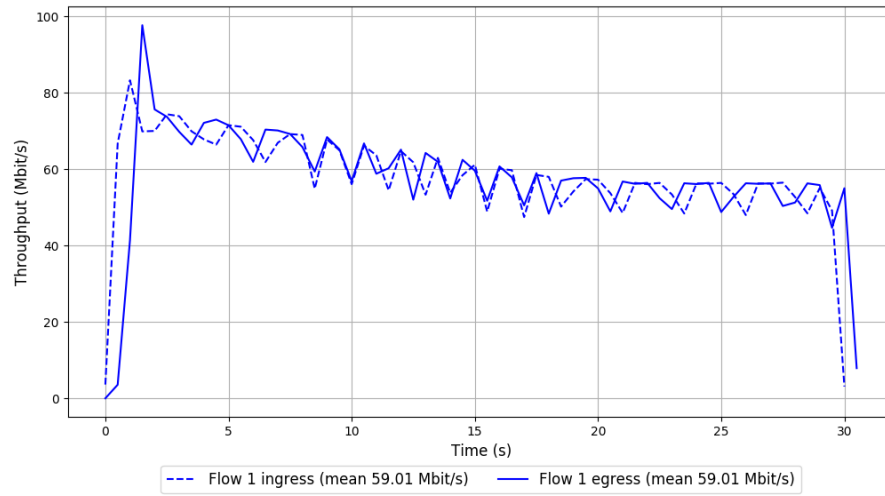


Run 6: Statistics of TCP Vegas

Start at: 2018-08-03 06:48:15  
End at: 2018-08-03 06:48:45  
Local clock offset: 0.06 ms  
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2018-08-03 10:12:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 59.01 Mbit/s  
95th percentile per-packet one-way delay: 54.184 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 59.01 Mbit/s  
95th percentile per-packet one-way delay: 54.184 ms  
Loss rate: 0.00%

# Run 6: Report of TCP Vegas — Data Link

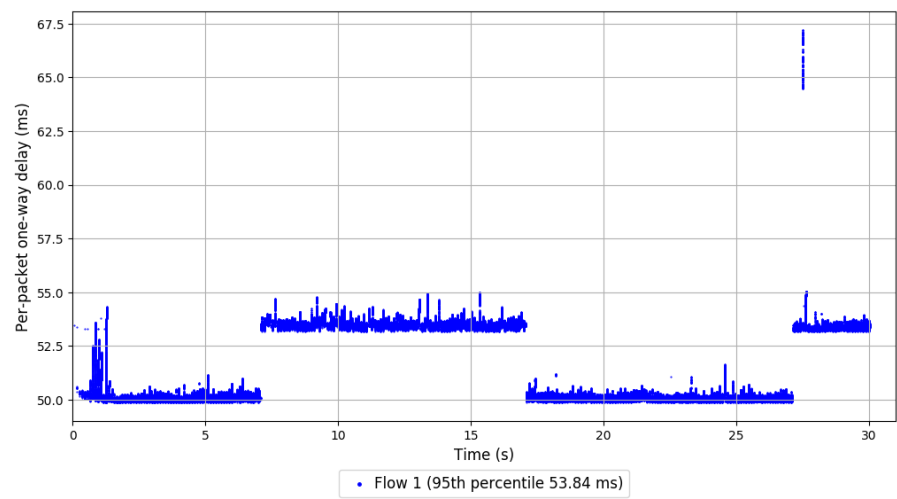
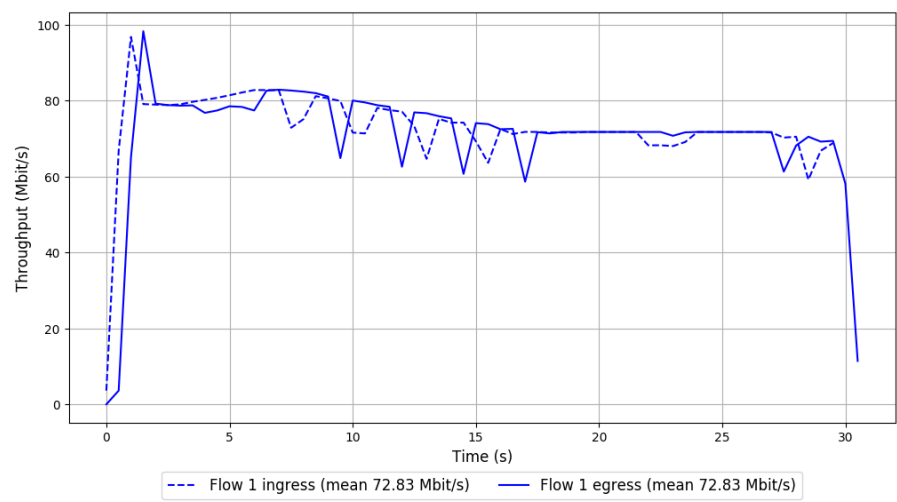


Run 7: Statistics of TCP Vegas

Start at: 2018-08-03 07:10:16  
End at: 2018-08-03 07:10:46  
Local clock offset: 0.228 ms  
Remote clock offset: -0.192 ms

# Below is generated by plot.py at 2018-08-03 10:12:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 72.83 Mbit/s  
95th percentile per-packet one-way delay: 53.844 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 72.83 Mbit/s  
95th percentile per-packet one-way delay: 53.844 ms  
Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-08-03 07:32:49

End at: 2018-08-03 07:33:19

Local clock offset: -0.132 ms

Remote clock offset: 0.174 ms

# Below is generated by plot.py at 2018-08-03 10:12:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 22.72 Mbit/s

95th percentile per-packet one-way delay: 54.070 ms

Loss rate: 0.00%

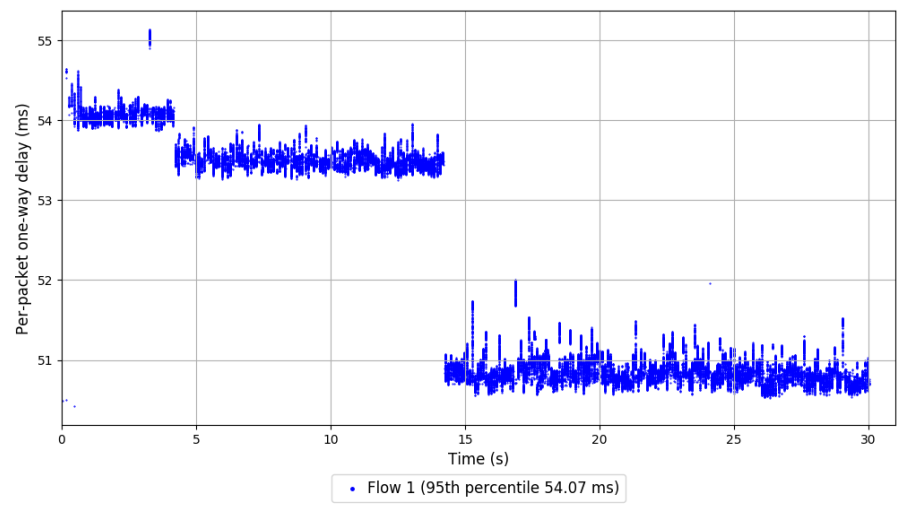
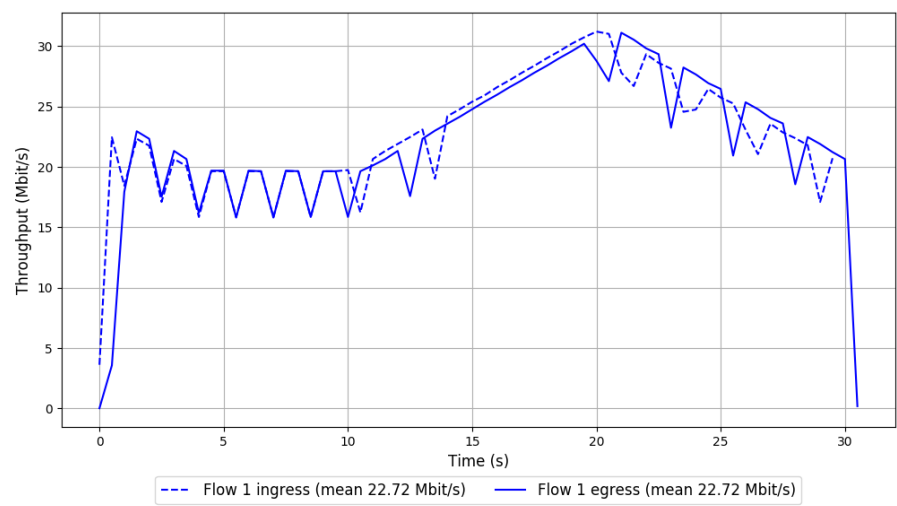
-- Flow 1:

Average throughput: 22.72 Mbit/s

95th percentile per-packet one-way delay: 54.070 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link

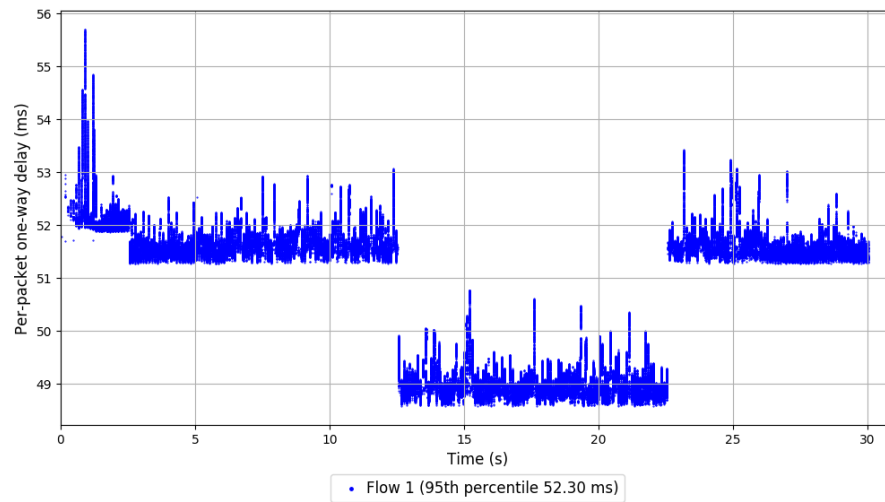
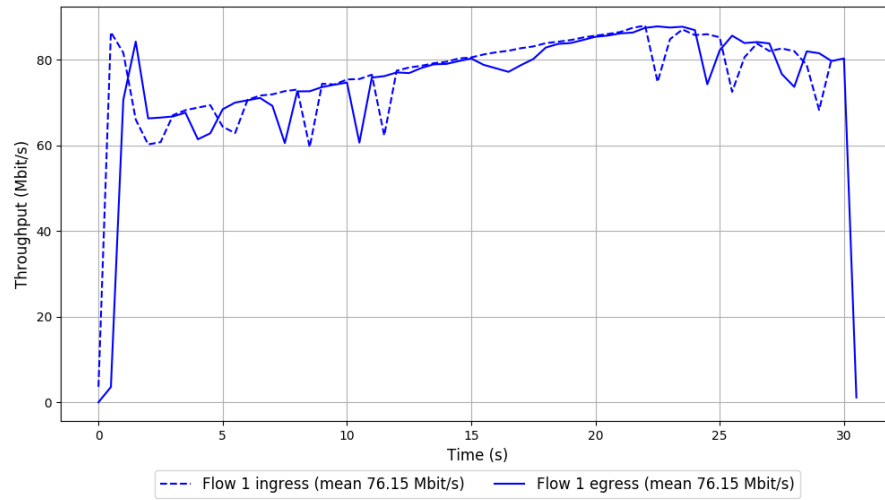


Run 9: Statistics of TCP Vegas

Start at: 2018-08-03 07:54:51  
End at: 2018-08-03 07:55:21  
Local clock offset: 0.024 ms  
Remote clock offset: -1.576 ms

# Below is generated by plot.py at 2018-08-03 10:12:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 76.15 Mbit/s  
95th percentile per-packet one-way delay: 52.298 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 76.15 Mbit/s  
95th percentile per-packet one-way delay: 52.298 ms  
Loss rate: 0.00%

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



Run 10: Statistics of TCP Vegas

Start at: 2018-08-03 08:17:19

End at: 2018-08-03 08:17:49

Local clock offset: -0.17 ms

Remote clock offset: -0.266 ms

# Below is generated by plot.py at 2018-08-03 10:12:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 47.83 Mbit/s

95th percentile per-packet one-way delay: 54.115 ms

Loss rate: 0.00%

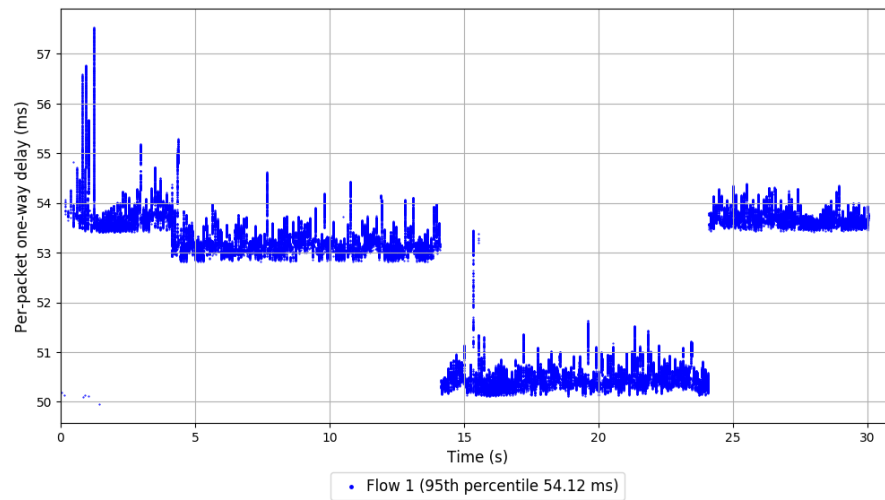
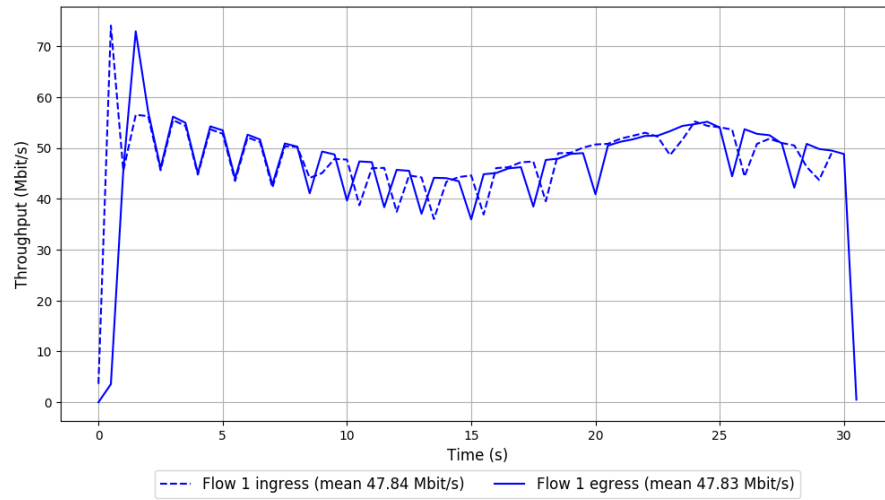
-- Flow 1:

Average throughput: 47.83 Mbit/s

95th percentile per-packet one-way delay: 54.115 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

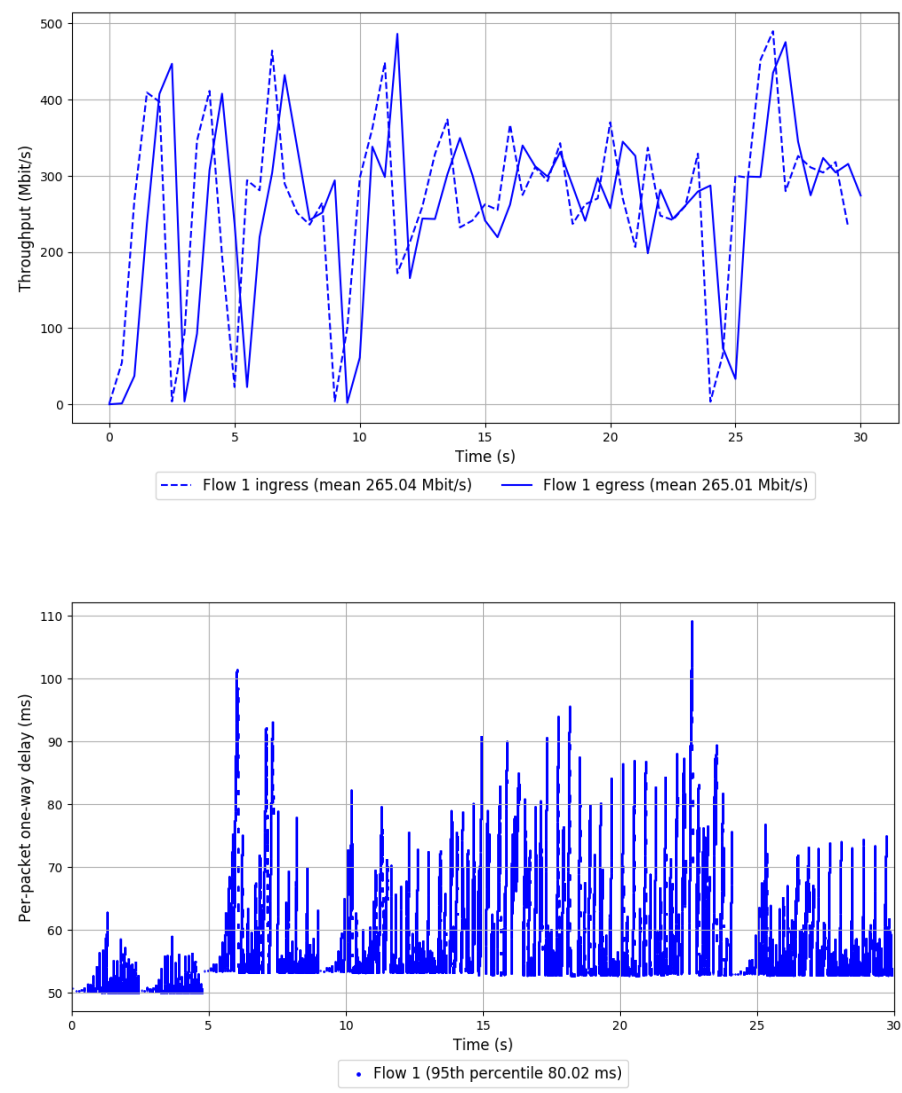


Run 1: Statistics of Verus

Start at: 2018-08-03 04:40:08  
End at: 2018-08-03 04:40:38  
Local clock offset: 0.157 ms  
Remote clock offset: -0.221 ms

# Below is generated by plot.py at 2018-08-03 10:12:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 265.01 Mbit/s  
95th percentile per-packet one-way delay: 80.024 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 265.01 Mbit/s  
95th percentile per-packet one-way delay: 80.024 ms  
Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-08-03 05:02:31

End at: 2018-08-03 05:03:01

Local clock offset: 0.164 ms

Remote clock offset: -0.16 ms

# Below is generated by plot.py at 2018-08-03 10:12:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 237.85 Mbit/s

95th percentile per-packet one-way delay: 106.968 ms

Loss rate: 0.27%

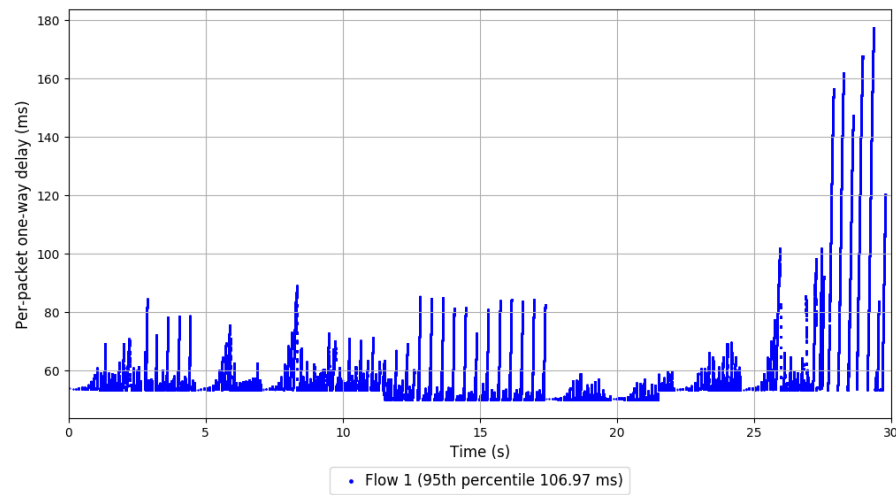
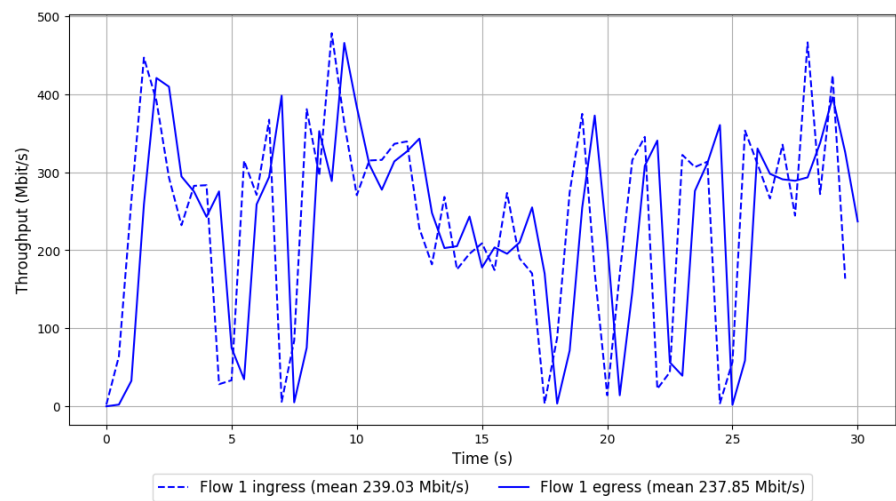
-- Flow 1:

Average throughput: 237.85 Mbit/s

95th percentile per-packet one-way delay: 106.968 ms

Loss rate: 0.27%

Run 2: Report of Verus — Data Link

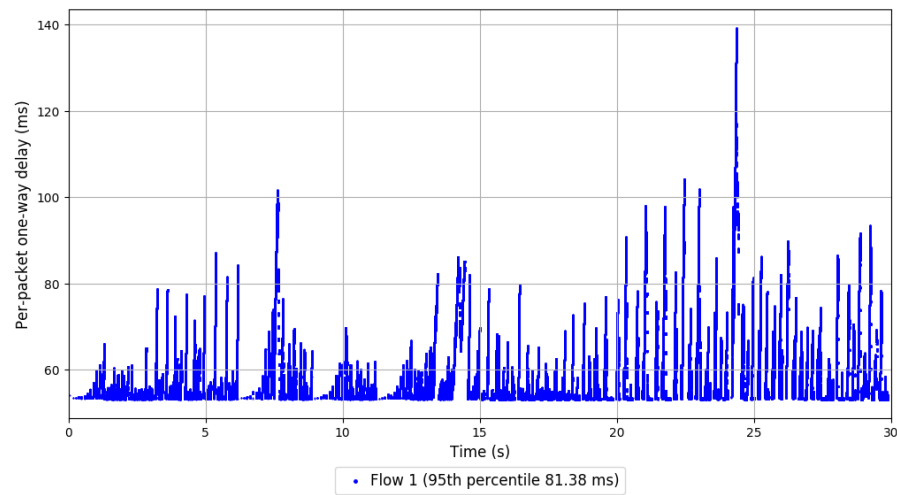
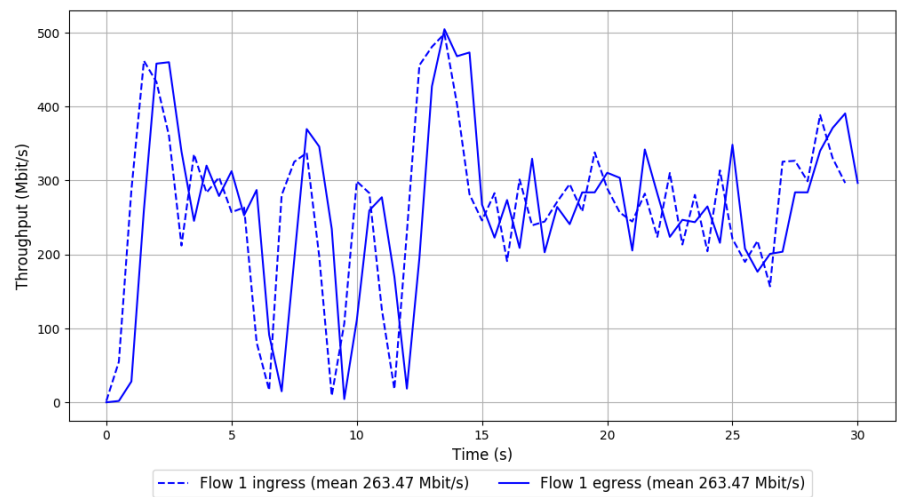


Run 3: Statistics of Verus

Start at: 2018-08-03 05:25:04  
End at: 2018-08-03 05:25:34  
Local clock offset: 0.127 ms  
Remote clock offset: -0.429 ms

# Below is generated by plot.py at 2018-08-03 10:12:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 263.47 Mbit/s  
95th percentile per-packet one-way delay: 81.382 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 263.47 Mbit/s  
95th percentile per-packet one-way delay: 81.382 ms  
Loss rate: 0.00%

Run 3: Report of Verus — Data Link

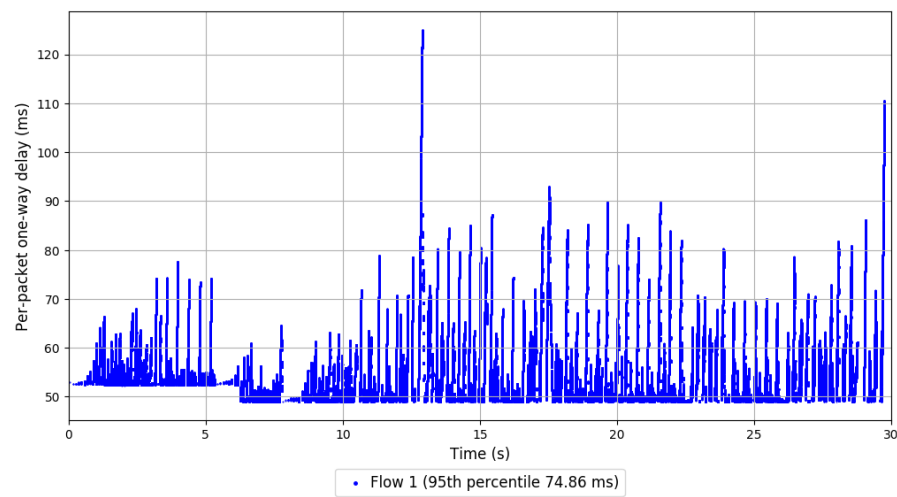
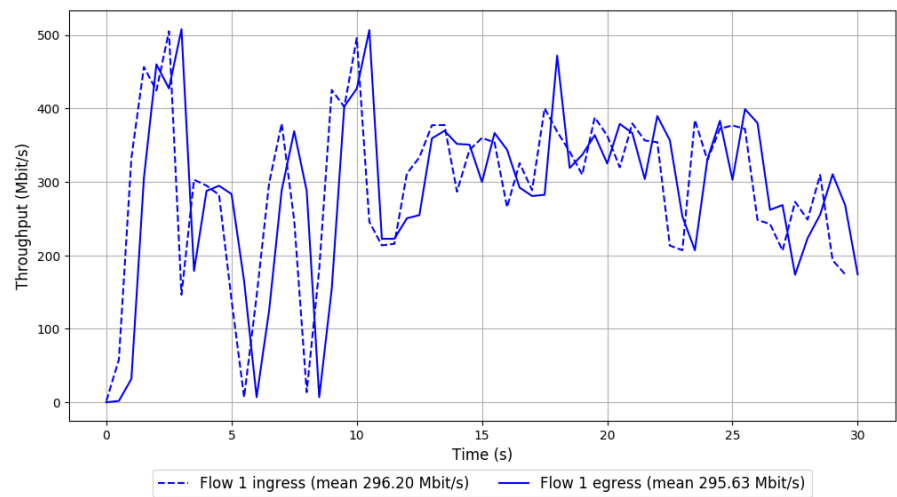


Run 4: Statistics of Verus

Start at: 2018-08-03 05:47:37  
End at: 2018-08-03 05:48:07  
Local clock offset: -0.088 ms  
Remote clock offset: -1.429 ms

# Below is generated by plot.py at 2018-08-03 10:13:21  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 295.63 Mbit/s  
95th percentile per-packet one-way delay: 74.865 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 295.63 Mbit/s  
95th percentile per-packet one-way delay: 74.865 ms  
Loss rate: 0.00%

Run 4: Report of Verus — Data Link

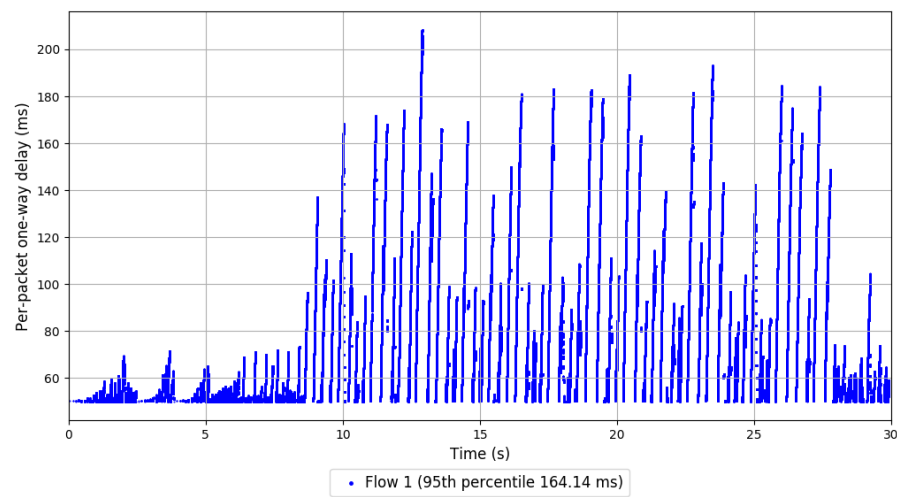
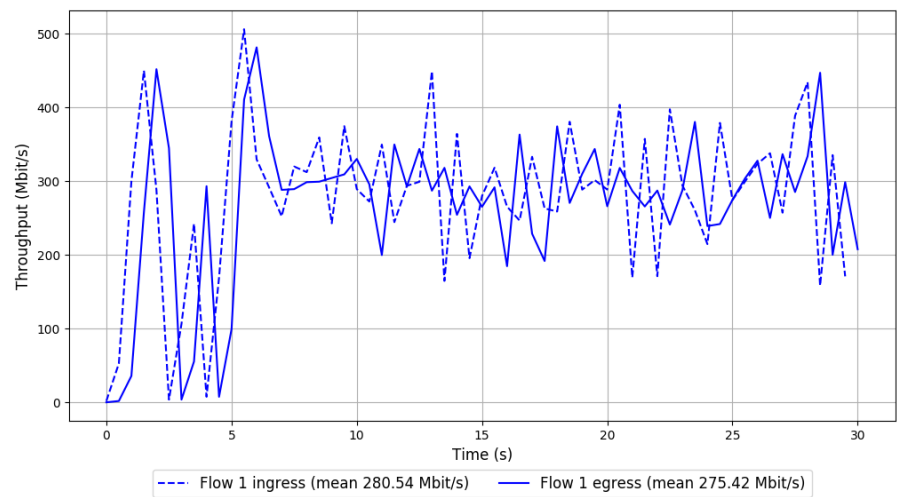


Run 5: Statistics of Verus

Start at: 2018-08-03 06:09:19  
End at: 2018-08-03 06:09:49  
Local clock offset: 0.119 ms  
Remote clock offset: -0.275 ms

# Below is generated by plot.py at 2018-08-03 10:13:21  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 275.42 Mbit/s  
95th percentile per-packet one-way delay: 164.139 ms  
Loss rate: 1.81%  
-- Flow 1:  
Average throughput: 275.42 Mbit/s  
95th percentile per-packet one-way delay: 164.139 ms  
Loss rate: 1.81%

Run 5: Report of Verus — Data Link

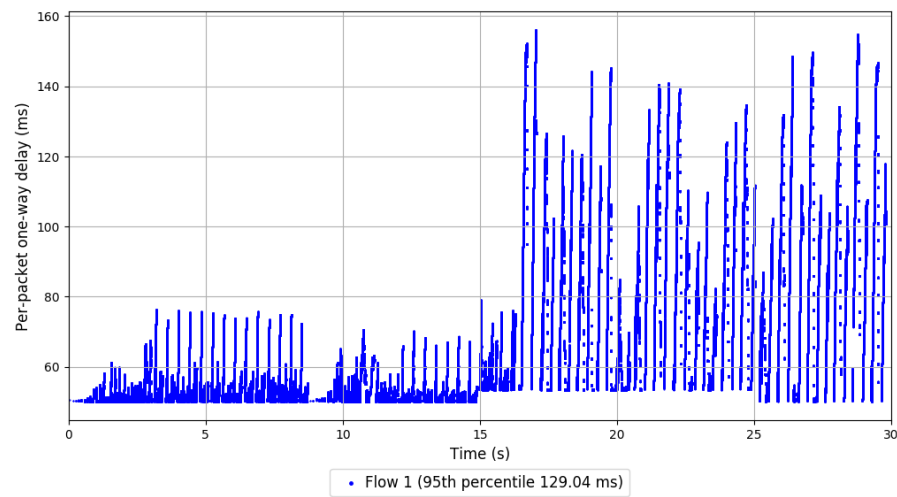
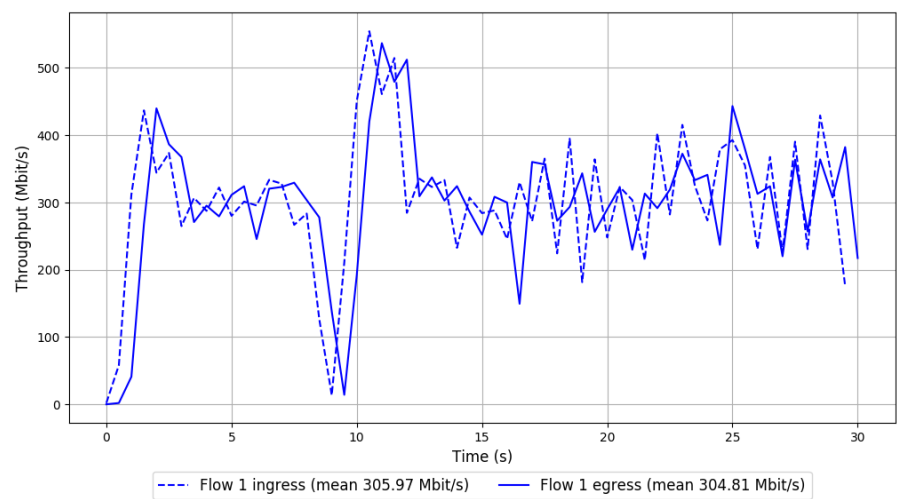


Run 6: Statistics of Verus

Start at: 2018-08-03 06:31:48  
End at: 2018-08-03 06:32:18  
Local clock offset: 0.062 ms  
Remote clock offset: -0.308 ms

# Below is generated by plot.py at 2018-08-03 10:13:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 304.81 Mbit/s  
95th percentile per-packet one-way delay: 129.041 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 304.81 Mbit/s  
95th percentile per-packet one-way delay: 129.041 ms  
Loss rate: 0.21%

Run 6: Report of Verus — Data Link

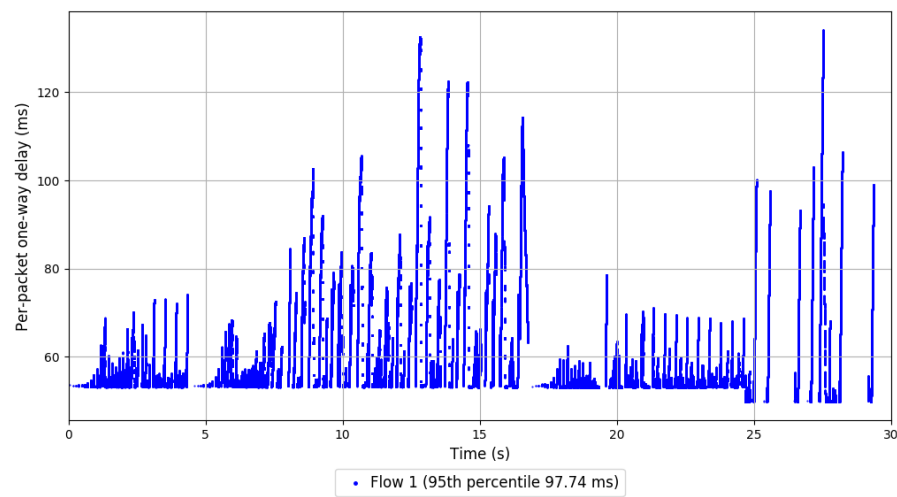
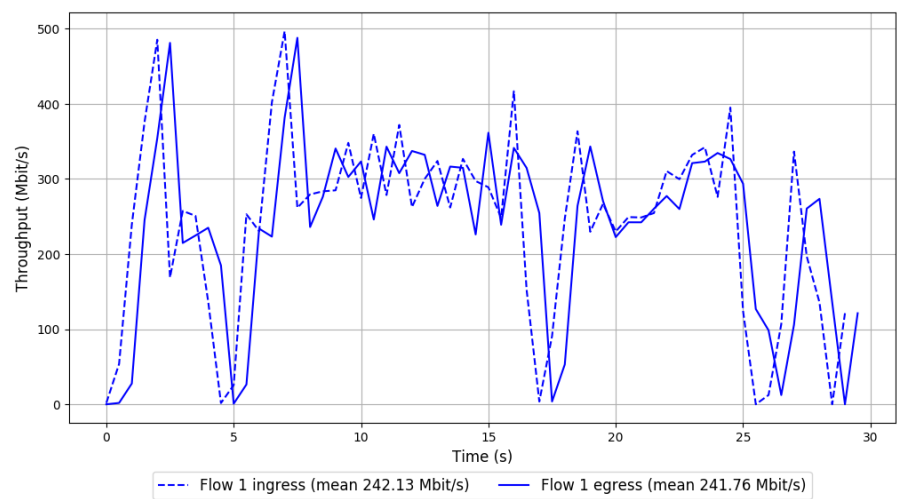


Run 7: Statistics of Verus

Start at: 2018-08-03 06:53:48  
End at: 2018-08-03 06:54:18  
Local clock offset: 0.16 ms  
Remote clock offset: -0.358 ms

# Below is generated by plot.py at 2018-08-03 10:13:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 241.76 Mbit/s  
95th percentile per-packet one-way delay: 97.743 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 241.76 Mbit/s  
95th percentile per-packet one-way delay: 97.743 ms  
Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-08-03 07:15:53

End at: 2018-08-03 07:16:23

Local clock offset: -0.02 ms

Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2018-08-03 10:15:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 250.59 Mbit/s

95th percentile per-packet one-way delay: 74.667 ms

Loss rate: 0.07%

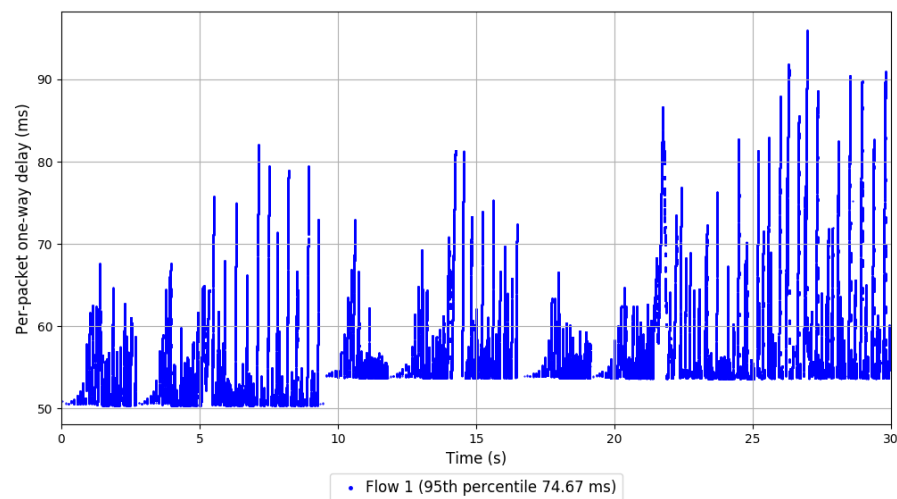
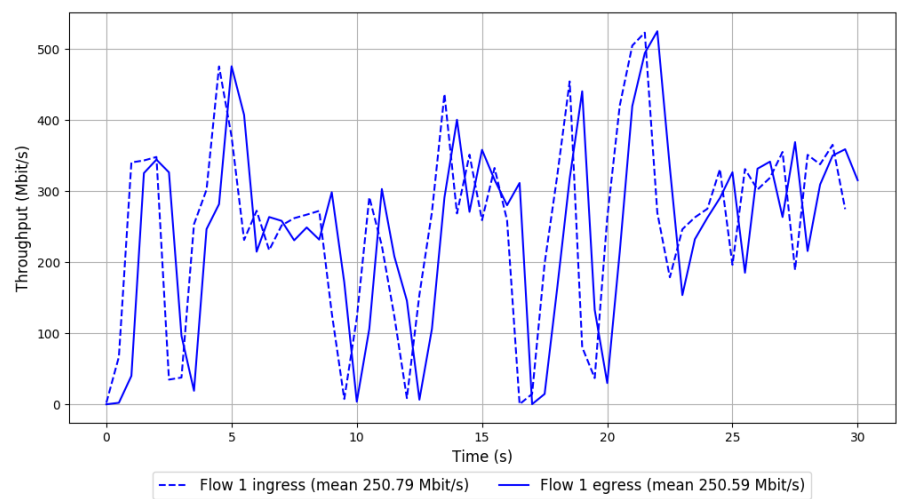
-- Flow 1:

Average throughput: 250.59 Mbit/s

95th percentile per-packet one-way delay: 74.667 ms

Loss rate: 0.07%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-08-03 07:38:21

End at: 2018-08-03 07:38:51

Local clock offset: -0.048 ms

Remote clock offset: 1.143 ms

# Below is generated by plot.py at 2018-08-03 10:16:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 335.51 Mbit/s

95th percentile per-packet one-way delay: 151.872 ms

Loss rate: 0.81%

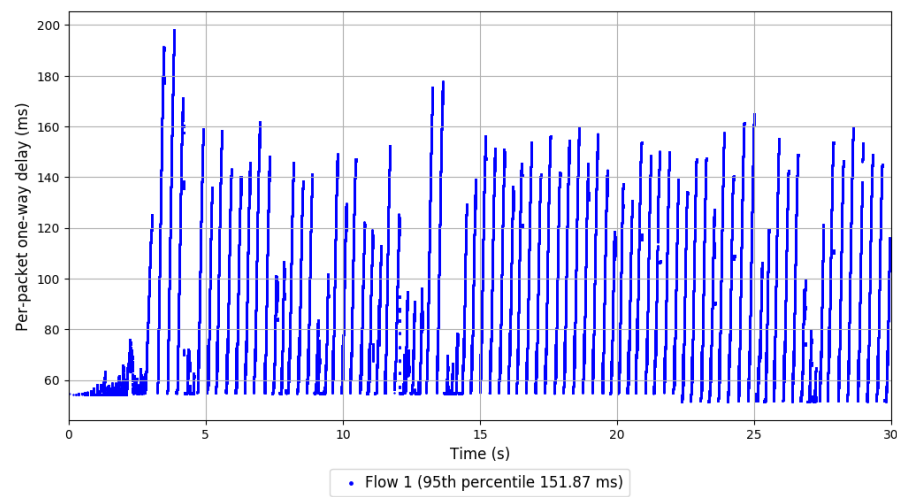
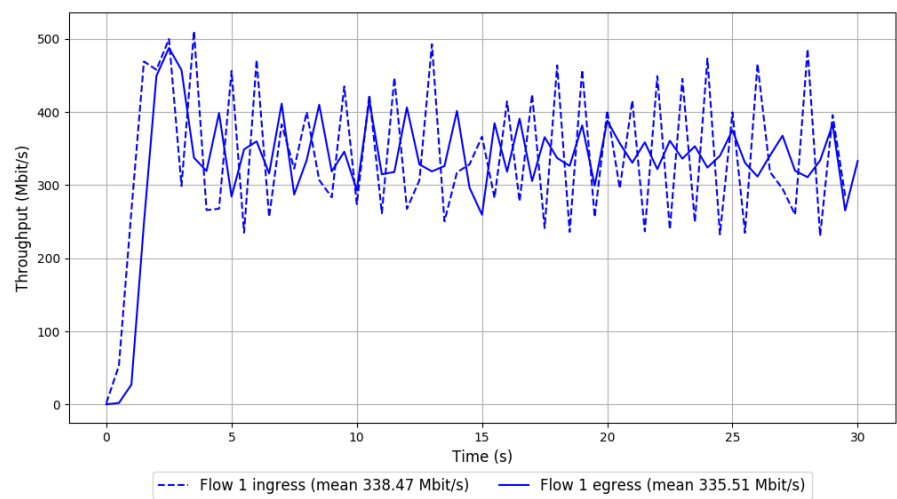
-- Flow 1:

Average throughput: 335.51 Mbit/s

95th percentile per-packet one-way delay: 151.872 ms

Loss rate: 0.81%

Run 9: Report of Verus — Data Link

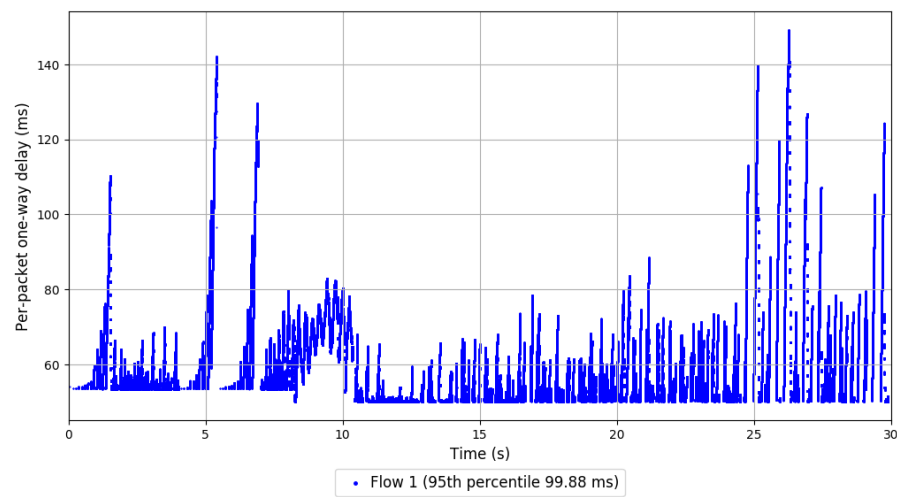
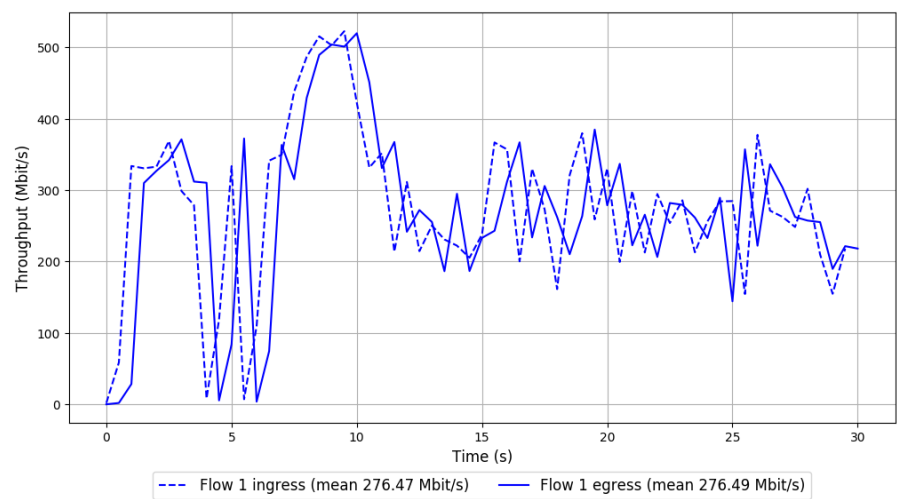


Run 10: Statistics of Verus

Start at: 2018-08-03 08:00:25  
End at: 2018-08-03 08:00:55  
Local clock offset: -0.139 ms  
Remote clock offset: -0.199 ms

# Below is generated by plot.py at 2018-08-03 10:16:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 276.49 Mbit/s  
95th percentile per-packet one-way delay: 99.883 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 276.49 Mbit/s  
95th percentile per-packet one-way delay: 99.883 ms  
Loss rate: 0.00%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-08-03 04:46:14

End at: 2018-08-03 04:46:44

Local clock offset: 0.098 ms

Remote clock offset: -0.307 ms

# Below is generated by plot.py at 2018-08-03 10:19:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 445.50 Mbit/s

95th percentile per-packet one-way delay: 54.431 ms

Loss rate: 0.01%

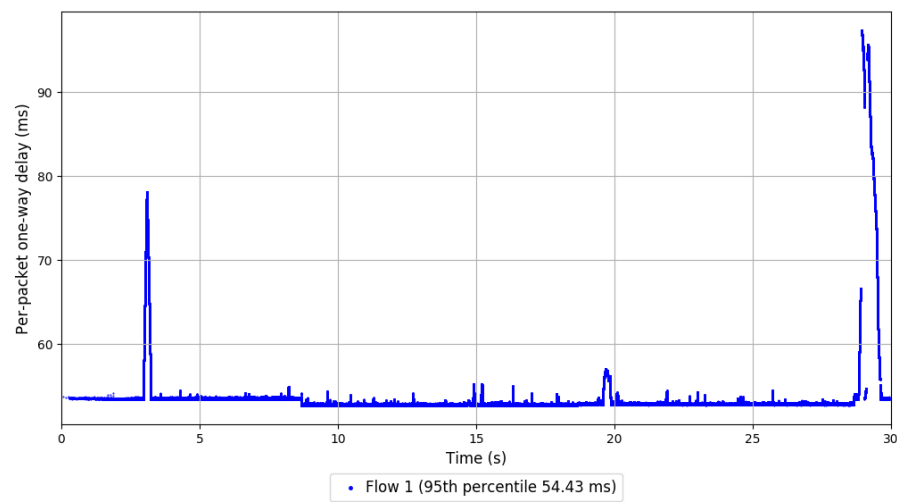
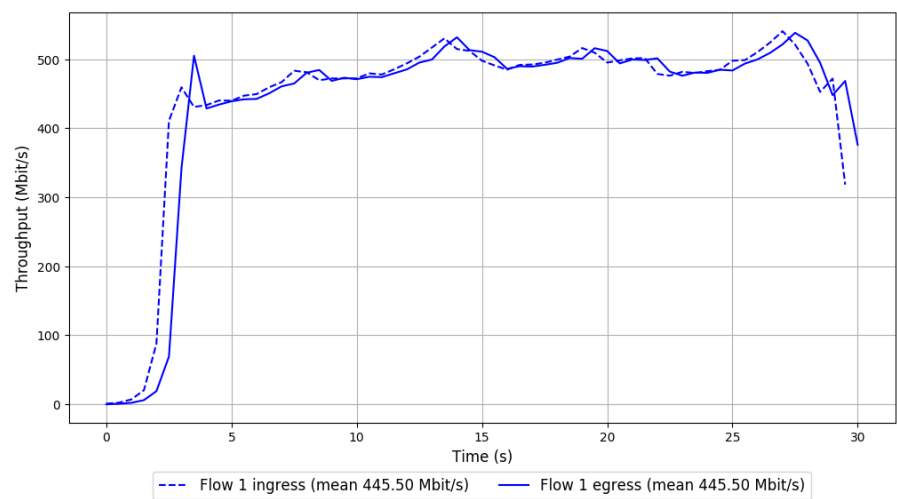
-- Flow 1:

Average throughput: 445.50 Mbit/s

95th percentile per-packet one-way delay: 54.431 ms

Loss rate: 0.01%

Run 1: Report of PCC-Vivace — Data Link

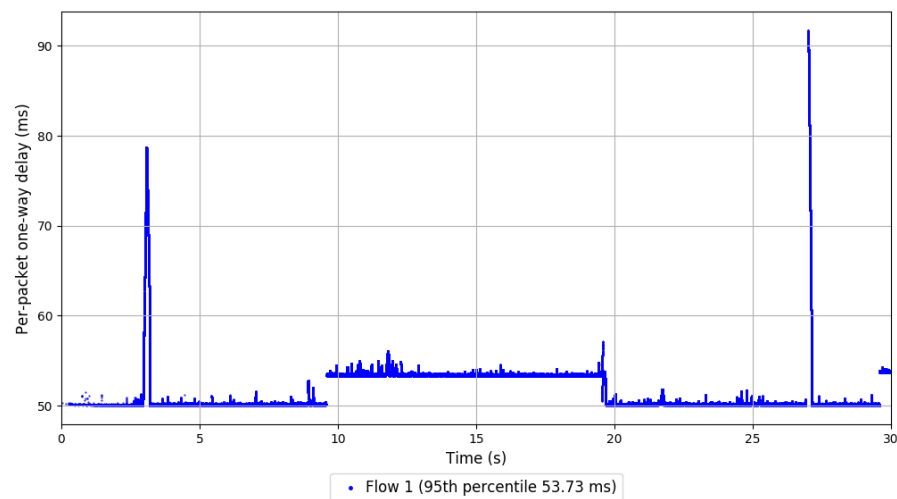
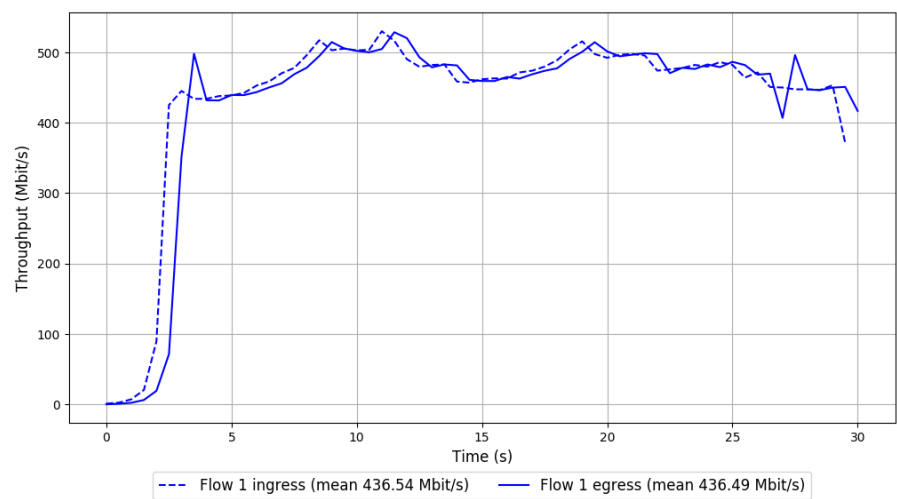


Run 2: Statistics of PCC-Vivace

Start at: 2018-08-03 05:08:35  
End at: 2018-08-03 05:09:05  
Local clock offset: -0.09 ms  
Remote clock offset: -0.123 ms

# Below is generated by plot.py at 2018-08-03 10:19:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 436.49 Mbit/s  
95th percentile per-packet one-way delay: 53.732 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 436.49 Mbit/s  
95th percentile per-packet one-way delay: 53.732 ms  
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-08-03 05:31:15

End at: 2018-08-03 05:31:45

Local clock offset: 0.156 ms

Remote clock offset: 1.212 ms

# Below is generated by plot.py at 2018-08-03 10:19:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 414.61 Mbit/s

95th percentile per-packet one-way delay: 72.794 ms

Loss rate: 0.09%

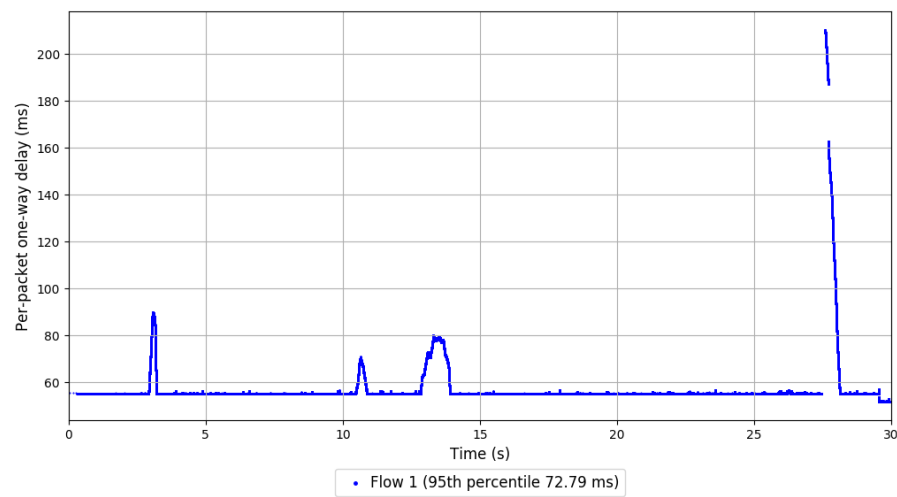
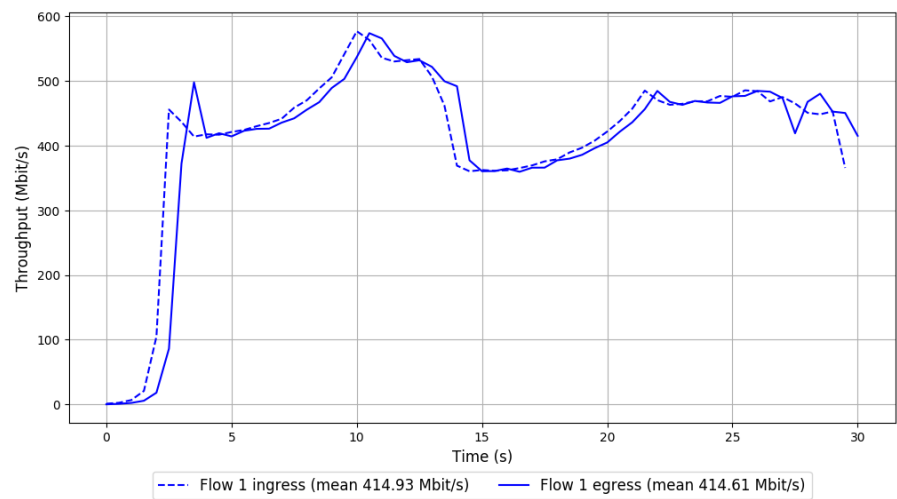
-- Flow 1:

Average throughput: 414.61 Mbit/s

95th percentile per-packet one-way delay: 72.794 ms

Loss rate: 0.09%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-08-03 05:53:46

End at: 2018-08-03 05:54:17

Local clock offset: 0.235 ms

Remote clock offset: -0.291 ms

# Below is generated by plot.py at 2018-08-03 10:20:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 423.77 Mbit/s

95th percentile per-packet one-way delay: 53.264 ms

Loss rate: 0.00%

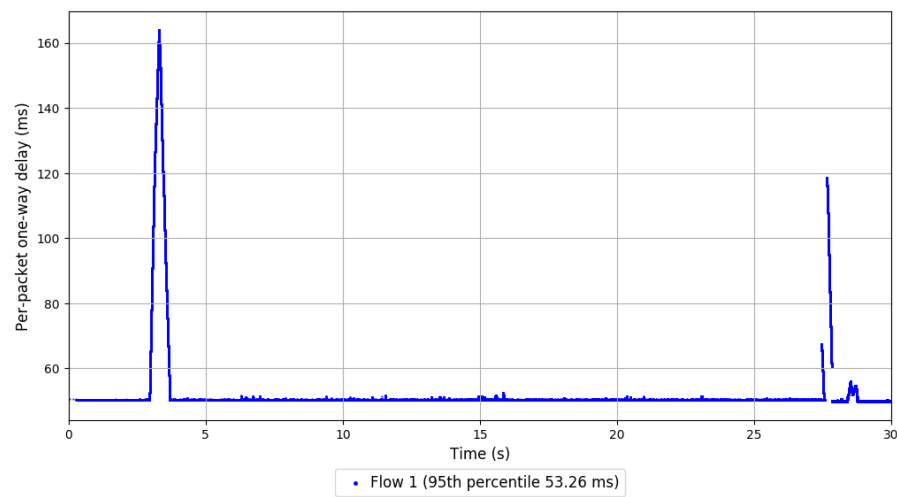
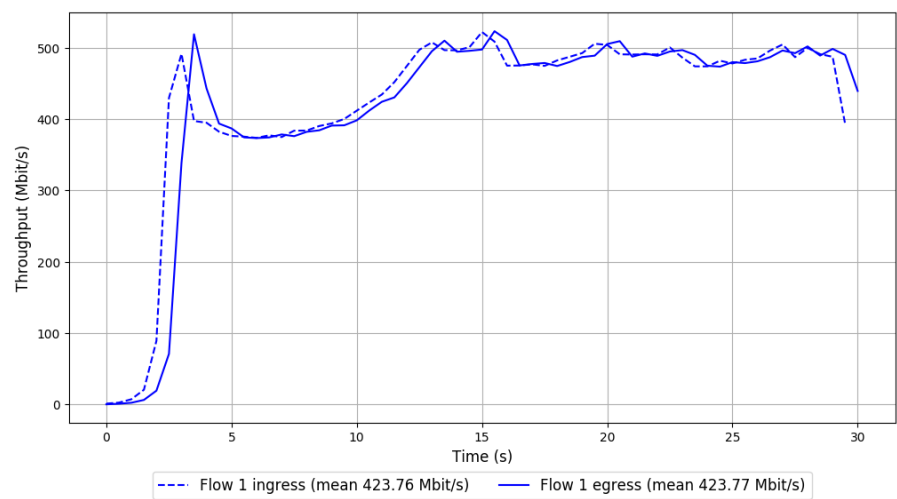
-- Flow 1:

Average throughput: 423.77 Mbit/s

95th percentile per-packet one-way delay: 53.264 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-08-03 06:15:25

End at: 2018-08-03 06:15:55

Local clock offset: 0.124 ms

Remote clock offset: -0.377 ms

# Below is generated by plot.py at 2018-08-03 10:20:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 431.74 Mbit/s

95th percentile per-packet one-way delay: 53.478 ms

Loss rate: 0.00%

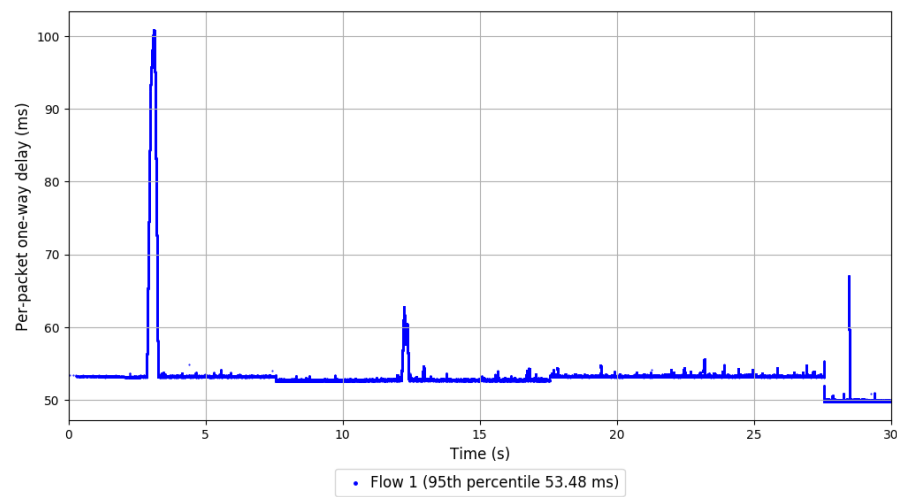
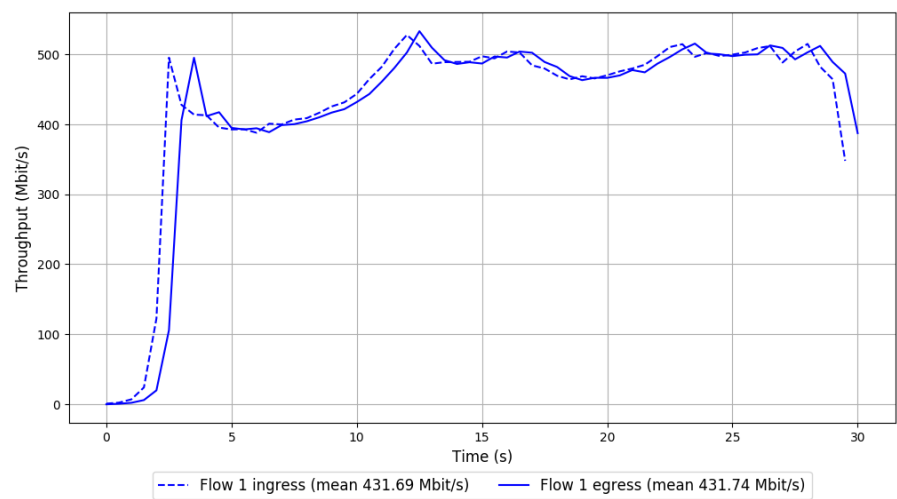
-- Flow 1:

Average throughput: 431.74 Mbit/s

95th percentile per-packet one-way delay: 53.478 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

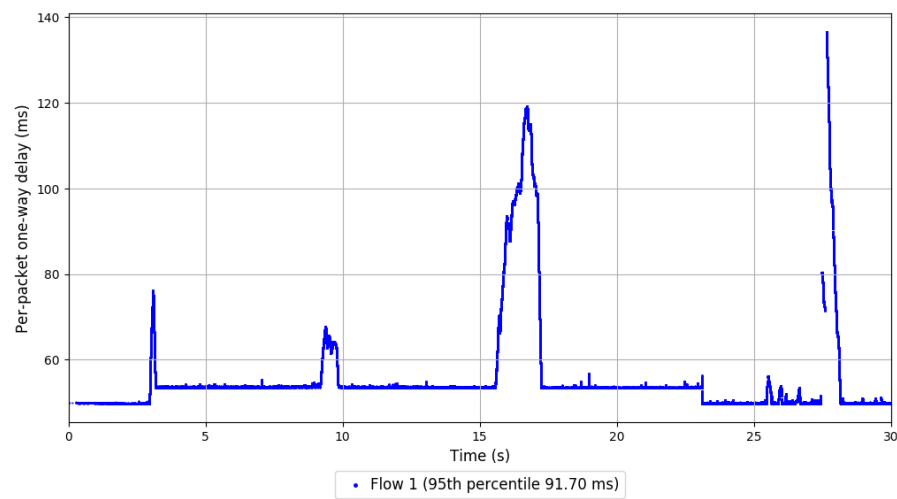
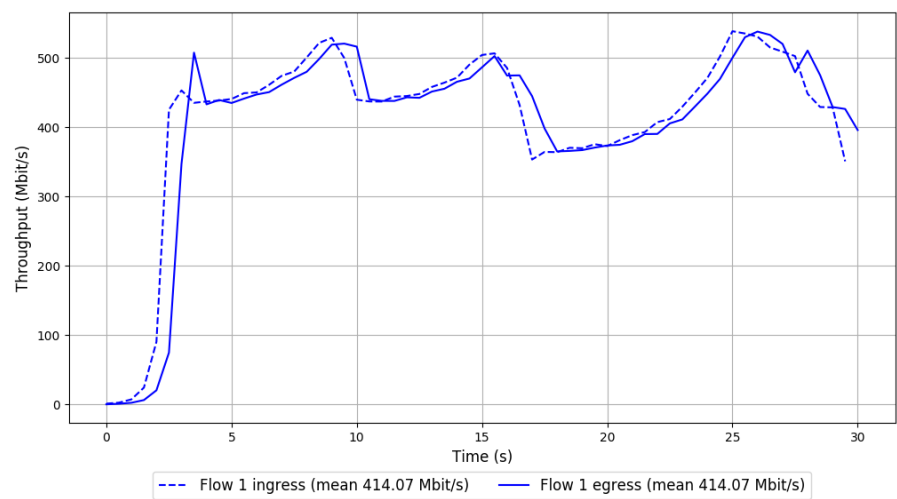


Run 6: Statistics of PCC-Vivace

Start at: 2018-08-03 06:38:00  
End at: 2018-08-03 06:38:30  
Local clock offset: -0.061 ms  
Remote clock offset: -0.342 ms

# Below is generated by plot.py at 2018-08-03 10:21:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 414.07 Mbit/s  
95th percentile per-packet one-way delay: 91.699 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 414.07 Mbit/s  
95th percentile per-packet one-way delay: 91.699 ms  
Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-08-03 06:59:55

End at: 2018-08-03 07:00:25

Local clock offset: -0.034 ms

Remote clock offset: 1.019 ms

# Below is generated by plot.py at 2018-08-03 10:22:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 410.01 Mbit/s

95th percentile per-packet one-way delay: 117.904 ms

Loss rate: 0.17%

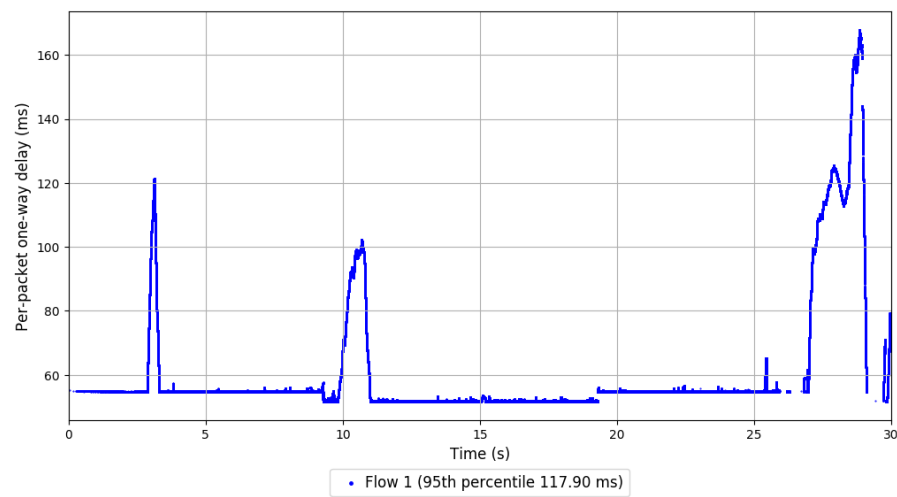
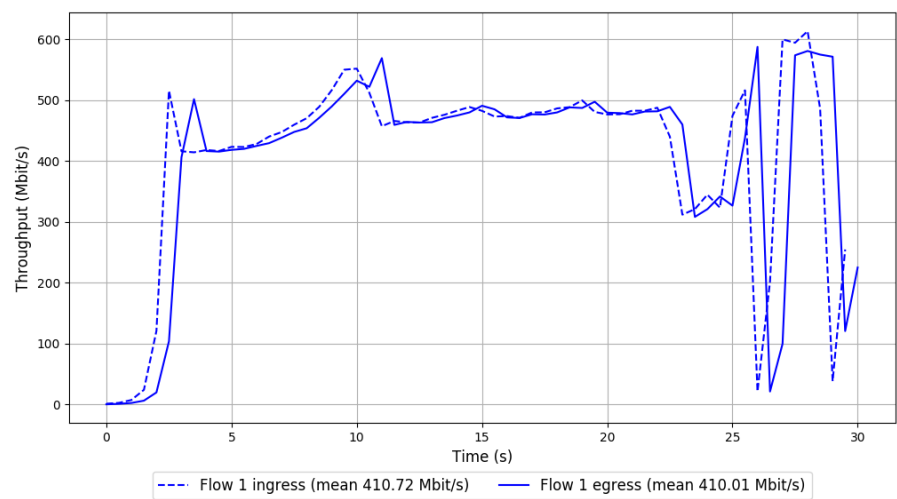
-- Flow 1:

Average throughput: 410.01 Mbit/s

95th percentile per-packet one-way delay: 117.904 ms

Loss rate: 0.17%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-08-03 07:21:54

End at: 2018-08-03 07:22:24

Local clock offset: 0.052 ms

Remote clock offset: -1.253 ms

# Below is generated by plot.py at 2018-08-03 10:22:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 421.95 Mbit/s

95th percentile per-packet one-way delay: 52.697 ms

Loss rate: 0.00%

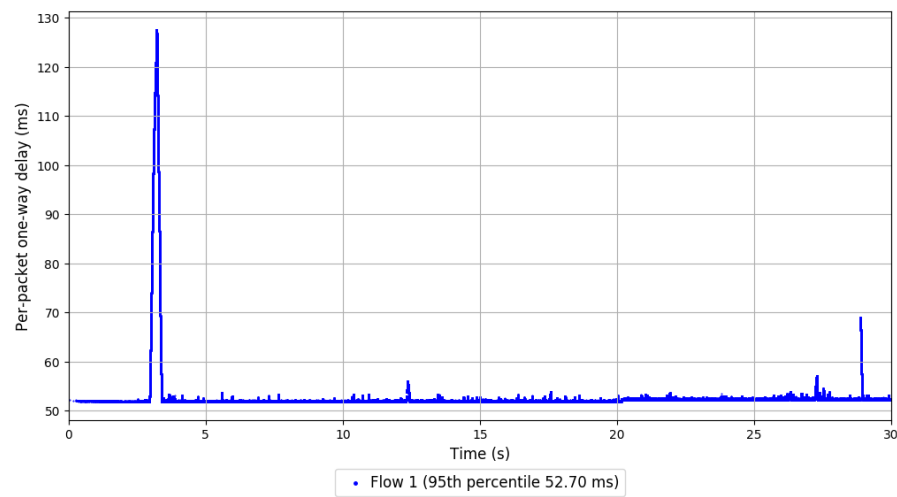
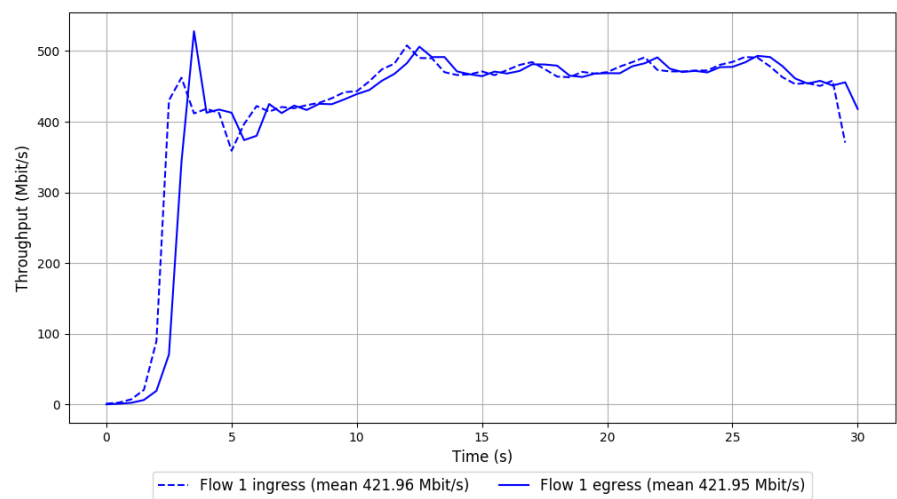
-- Flow 1:

Average throughput: 421.95 Mbit/s

95th percentile per-packet one-way delay: 52.697 ms

Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link

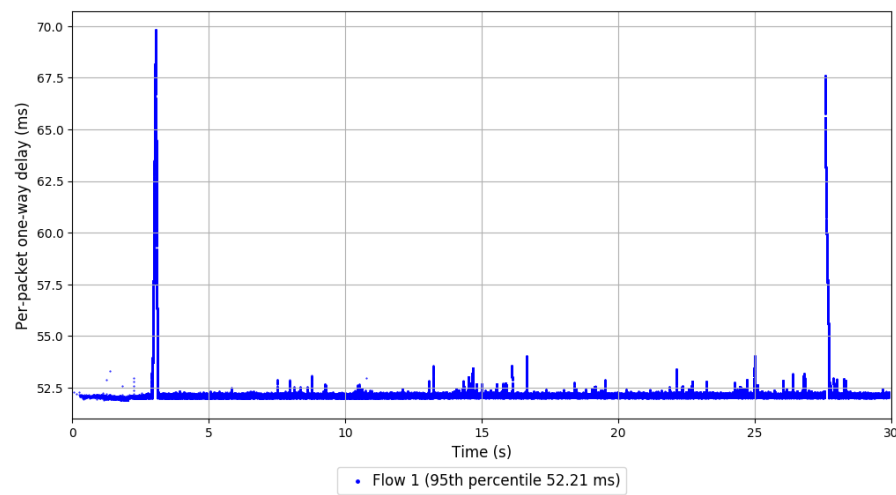
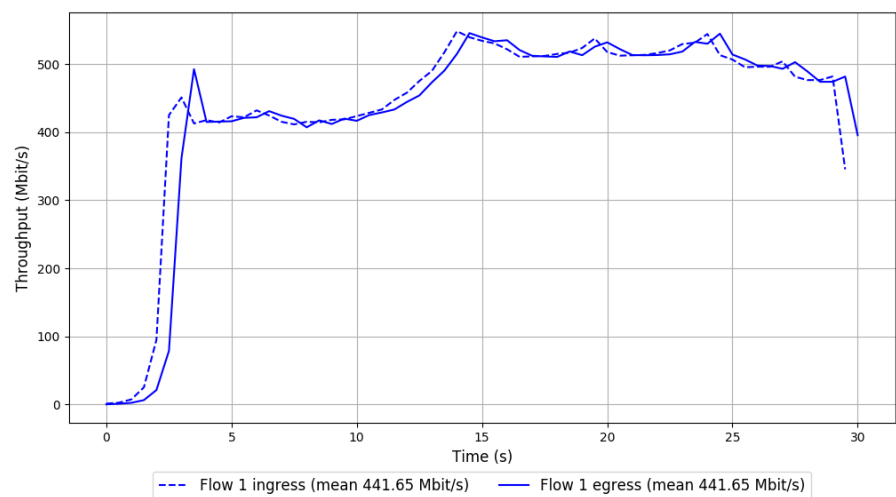


Run 9: Statistics of PCC-Vivace

Start at: 2018-08-03 07:44:32  
End at: 2018-08-03 07:45:02  
Local clock offset: -0.078 ms  
Remote clock offset: -1.141 ms

# Below is generated by plot.py at 2018-08-03 10:22:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 441.65 Mbit/s  
95th percentile per-packet one-way delay: 52.213 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 441.65 Mbit/s  
95th percentile per-packet one-way delay: 52.213 ms  
Loss rate: 0.01%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-08-03 08:06:32

End at: 2018-08-03 08:07:02

Local clock offset: 0.003 ms

Remote clock offset: -0.319 ms

# Below is generated by plot.py at 2018-08-03 10:23:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 452.56 Mbit/s

95th percentile per-packet one-way delay: 53.068 ms

Loss rate: 0.00%

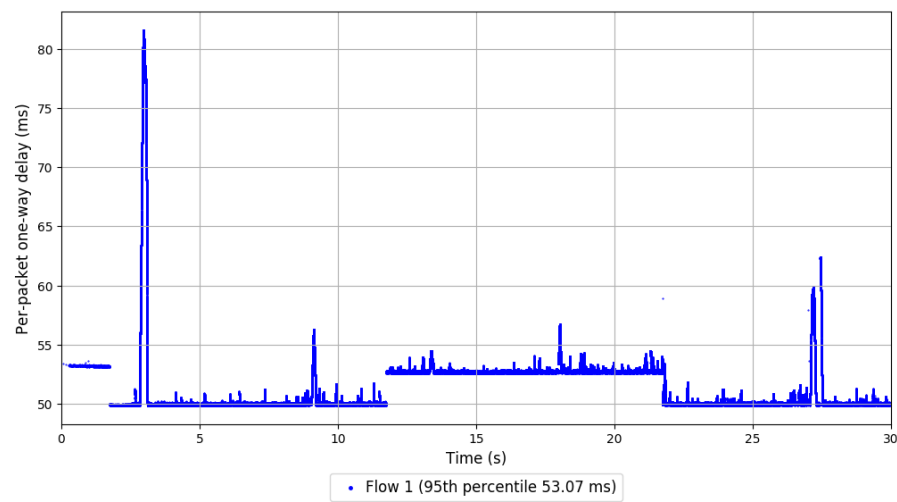
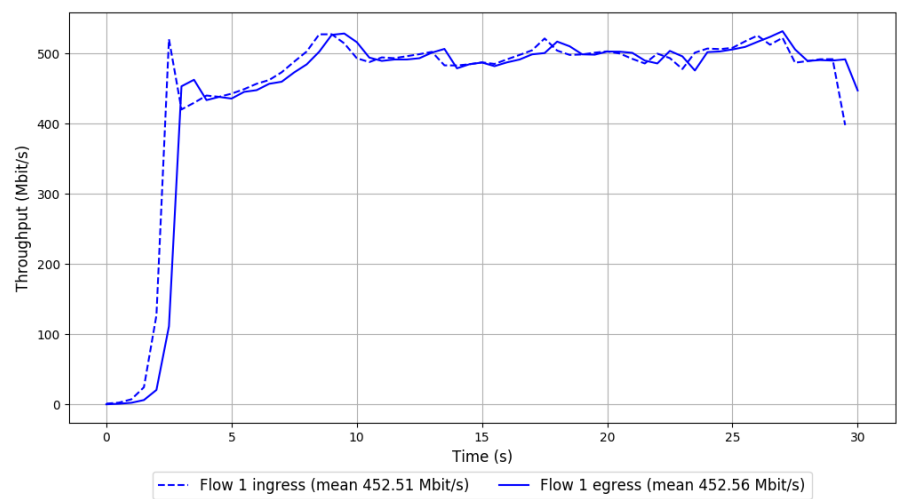
-- Flow 1:

Average throughput: 452.56 Mbit/s

95th percentile per-packet one-way delay: 53.068 ms

Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link

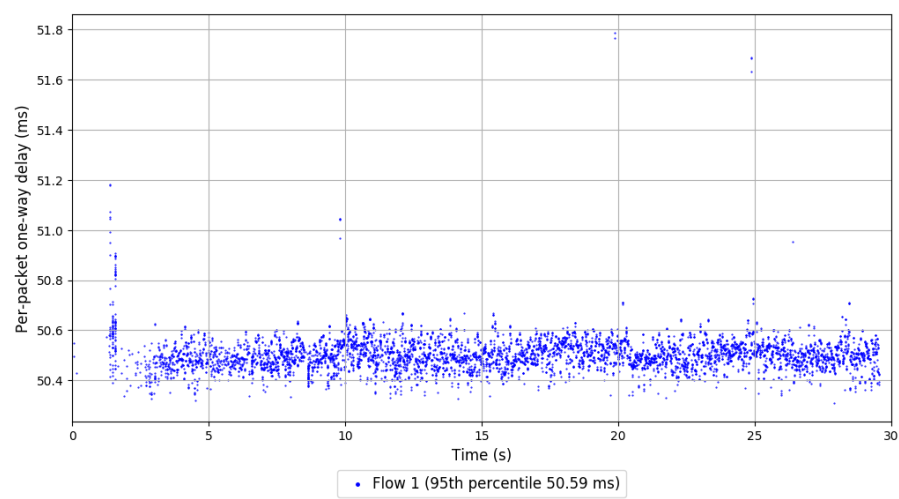
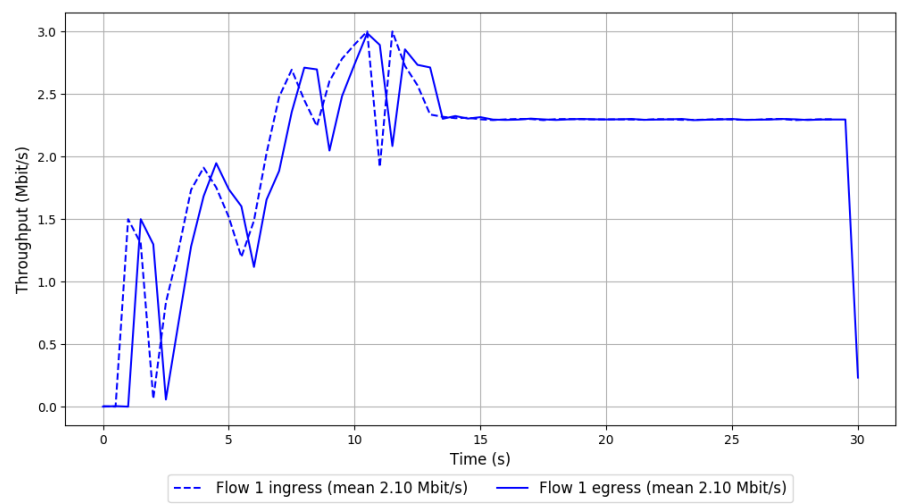


```
Run 1: Statistics of WebRTC media

Start at: 2018-08-03 04:59:14
End at: 2018-08-03 04:59:44
Local clock offset: 0.087 ms
Remote clock offset: 0.103 ms

# Below is generated by plot.py at 2018-08-03 10:23:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 50.595 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 50.595 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

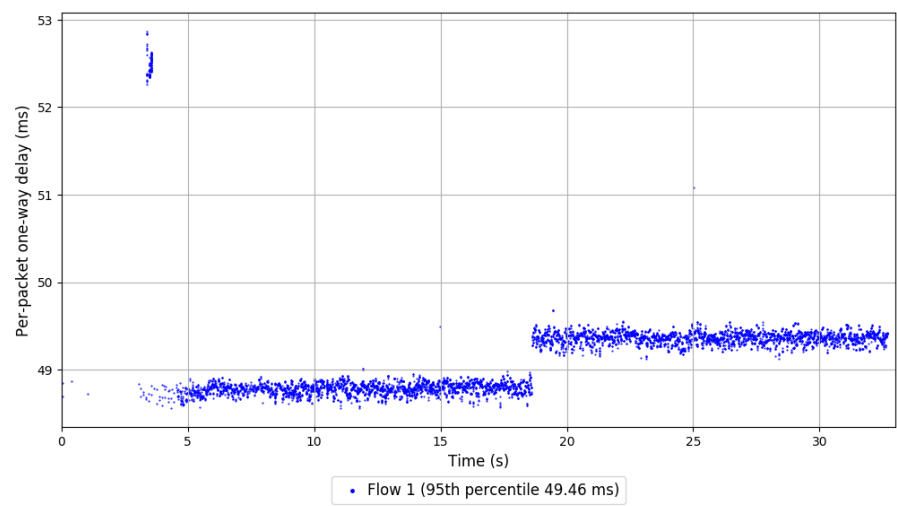
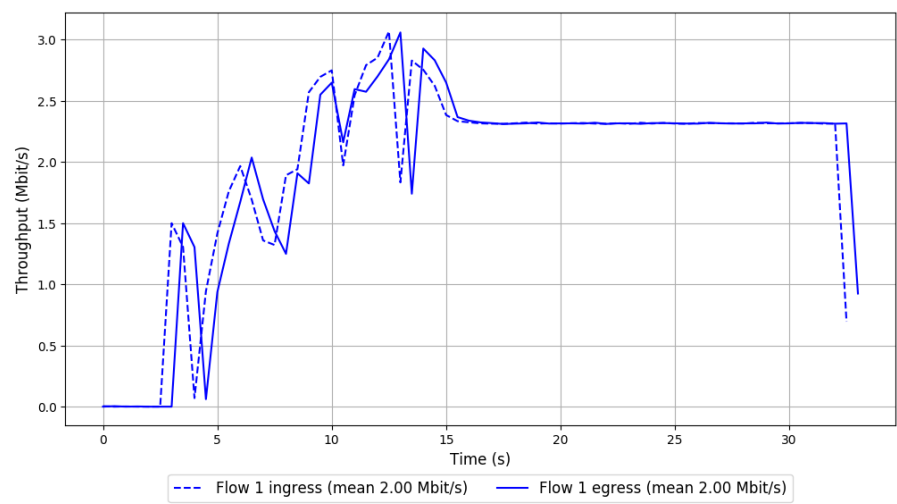


Run 2: Statistics of WebRTC media

Start at: 2018-08-03 05:21:47  
End at: 2018-08-03 05:22:17  
Local clock offset: 0.055 ms  
Remote clock offset: -1.408 ms

# Below is generated by plot.py at 2018-08-03 10:23:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.00 Mbit/s  
95th percentile per-packet one-way delay: 49.458 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.00 Mbit/s  
95th percentile per-packet one-way delay: 49.458 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

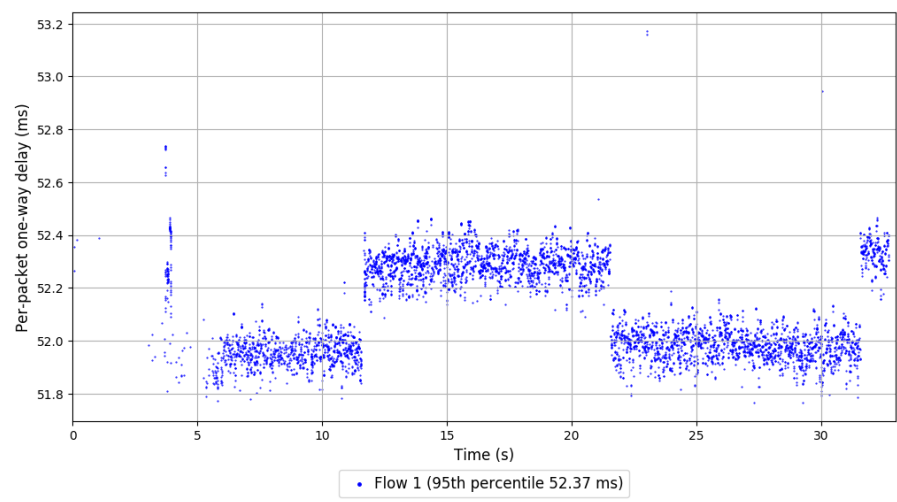
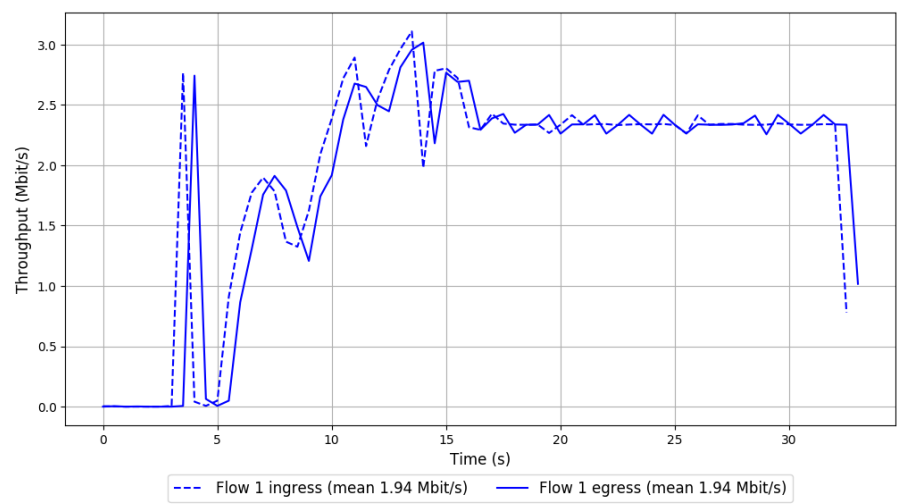


Run 3: Statistics of WebRTC media

Start at: 2018-08-03 05:44:15  
End at: 2018-08-03 05:44:45  
Local clock offset: 0.093 ms  
Remote clock offset: -1.416 ms

# Below is generated by plot.py at 2018-08-03 10:23:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.94 Mbit/s  
95th percentile per-packet one-way delay: 52.371 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.94 Mbit/s  
95th percentile per-packet one-way delay: 52.371 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

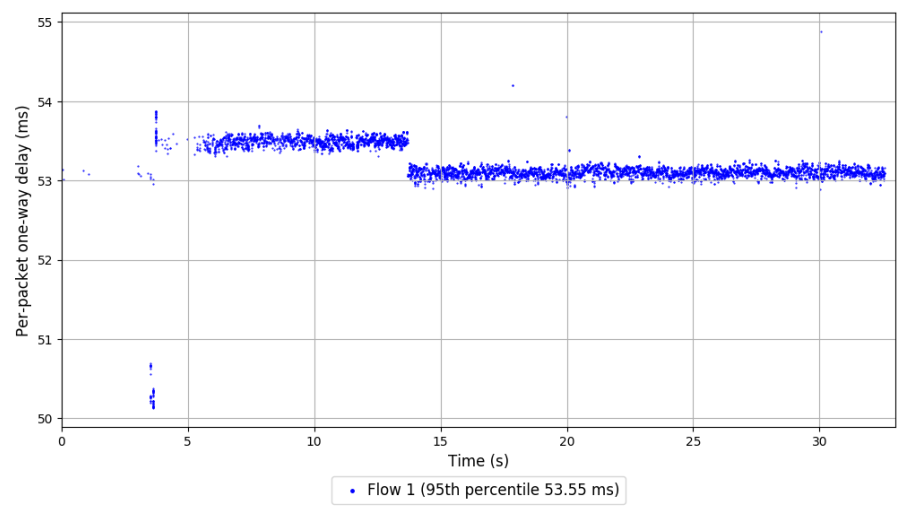
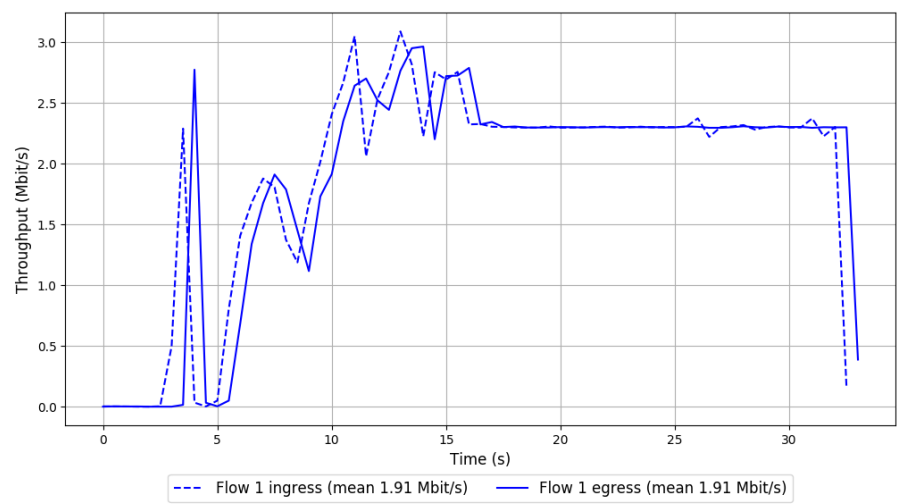


Run 4: Statistics of WebRTC media

Start at: 2018-08-03 06:06:02  
End at: 2018-08-03 06:06:32  
Local clock offset: 0.124 ms  
Remote clock offset: -0.201 ms

# Below is generated by plot.py at 2018-08-03 10:23:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.91 Mbit/s  
95th percentile per-packet one-way delay: 53.553 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.91 Mbit/s  
95th percentile per-packet one-way delay: 53.553 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

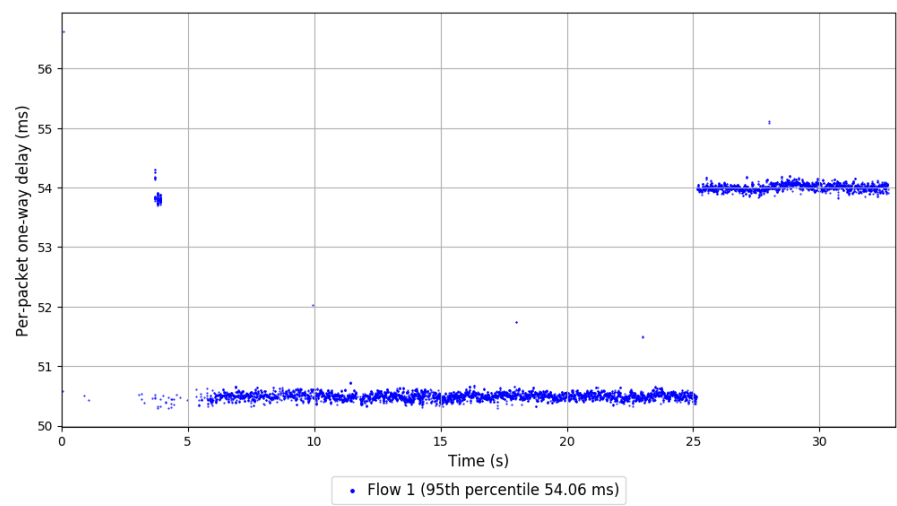
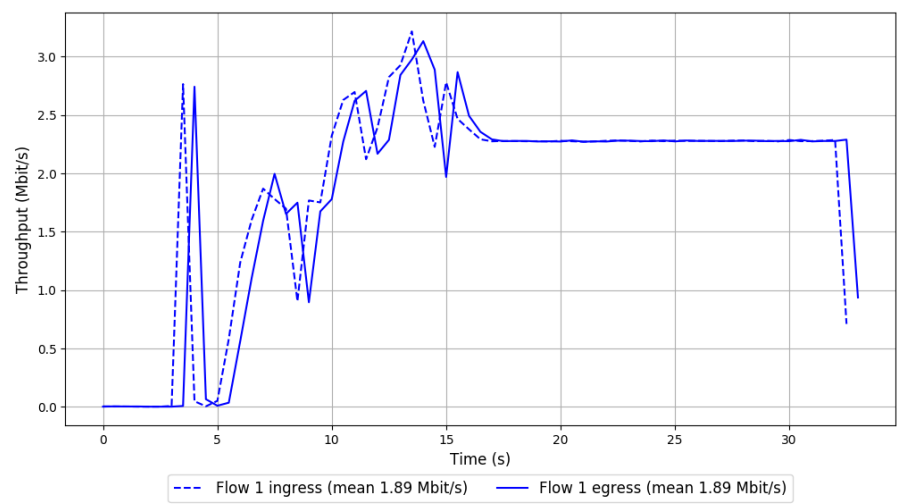


Run 5: Statistics of WebRTC media

Start at: 2018-08-03 06:28:31  
End at: 2018-08-03 06:29:01  
Local clock offset: -0.158 ms  
Remote clock offset: -0.203 ms

# Below is generated by plot.py at 2018-08-03 10:23:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.89 Mbit/s  
95th percentile per-packet one-way delay: 54.062 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.89 Mbit/s  
95th percentile per-packet one-way delay: 54.062 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

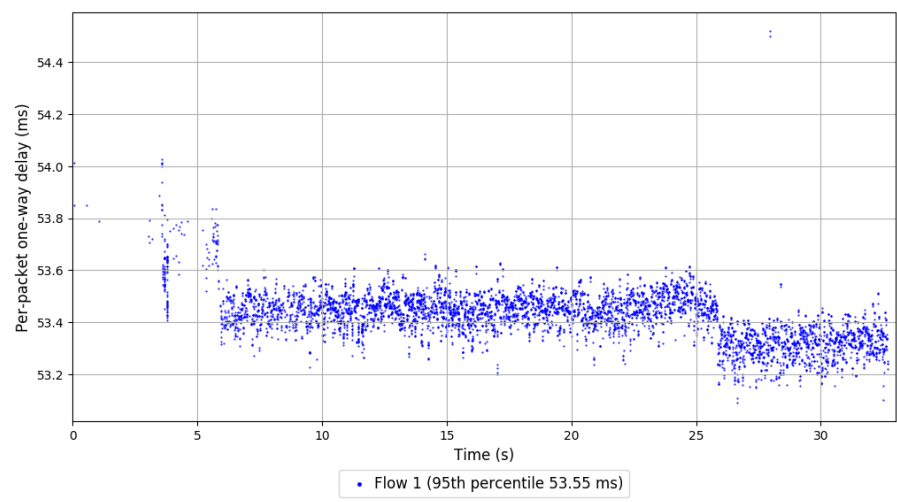
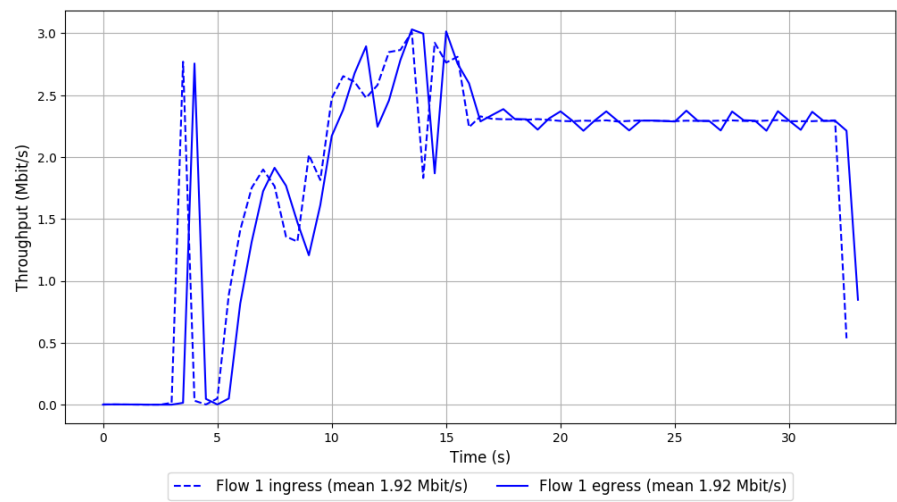


Run 6: Statistics of WebRTC media

Start at: 2018-08-03 06:50:31  
End at: 2018-08-03 06:51:01  
Local clock offset: -0.09 ms  
Remote clock offset: -0.399 ms

# Below is generated by plot.py at 2018-08-03 10:23:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.92 Mbit/s  
95th percentile per-packet one-way delay: 53.549 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.92 Mbit/s  
95th percentile per-packet one-way delay: 53.549 ms  
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

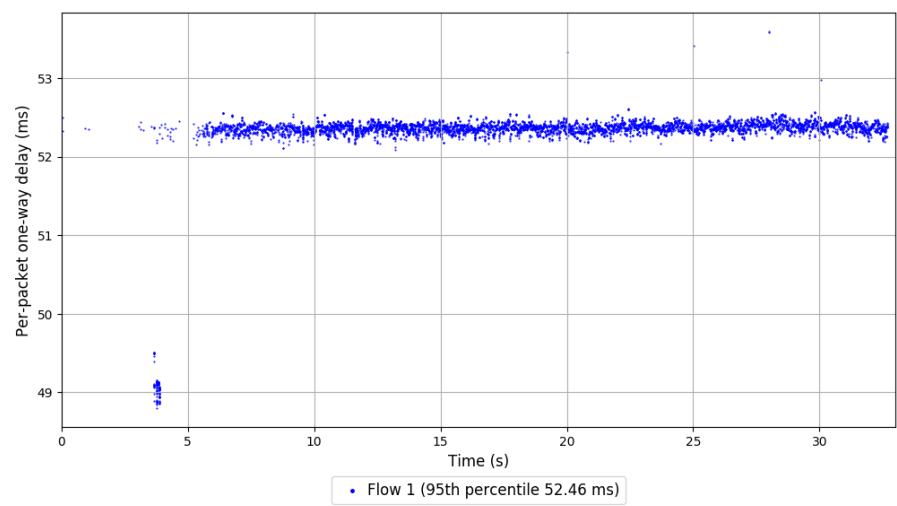
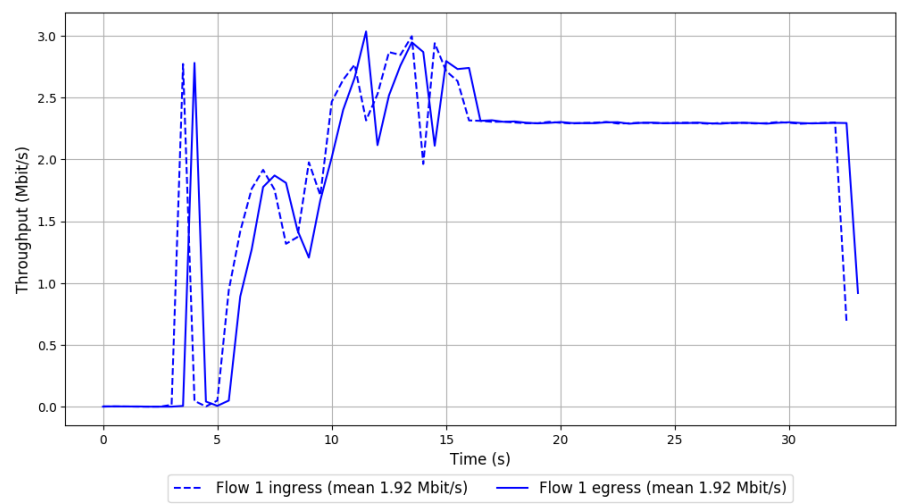


Run 7: Statistics of WebRTC media

Start at: 2018-08-03 07:12:33  
End at: 2018-08-03 07:13:03  
Local clock offset: 0.112 ms  
Remote clock offset: -1.396 ms

# Below is generated by plot.py at 2018-08-03 10:23:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.92 Mbit/s  
95th percentile per-packet one-way delay: 52.463 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.92 Mbit/s  
95th percentile per-packet one-way delay: 52.463 ms  
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

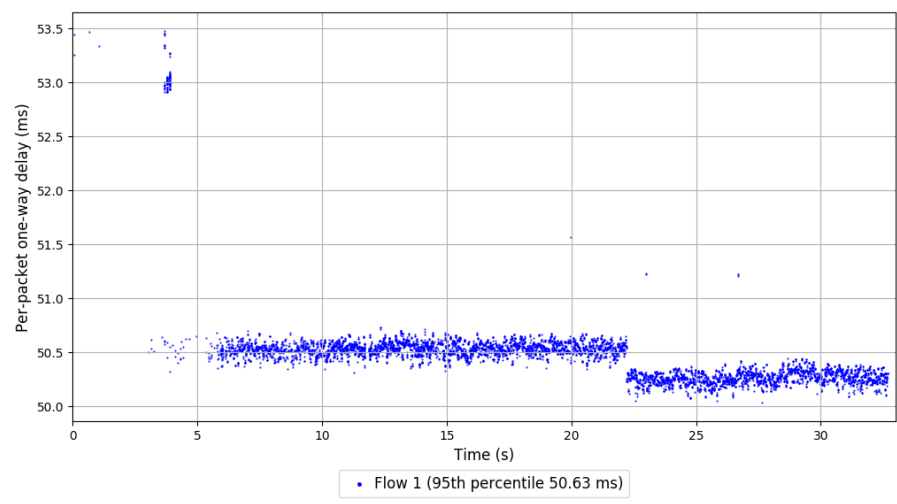
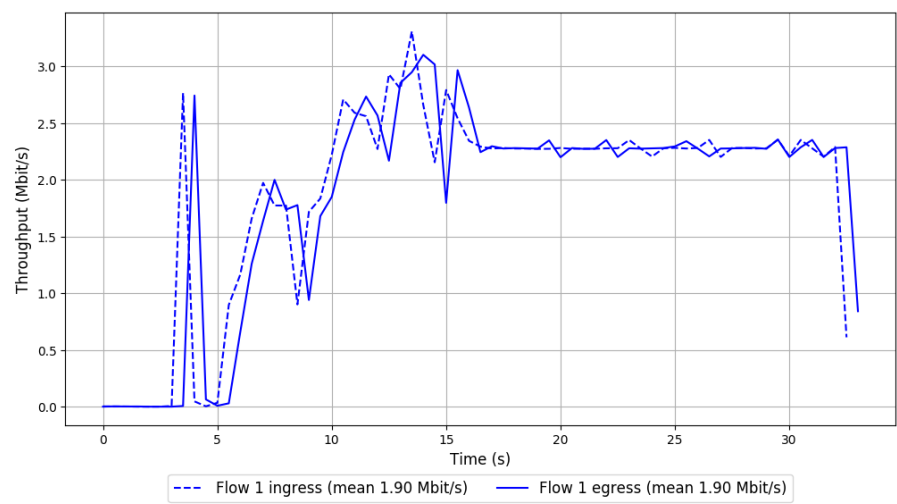


Run 8: Statistics of WebRTC media

Start at: 2018-08-03 07:35:04  
End at: 2018-08-03 07:35:34  
Local clock offset: -0.081 ms  
Remote clock offset: -0.199 ms

# Below is generated by plot.py at 2018-08-03 10:23:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.90 Mbit/s  
95th percentile per-packet one-way delay: 50.632 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.90 Mbit/s  
95th percentile per-packet one-way delay: 50.632 ms  
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

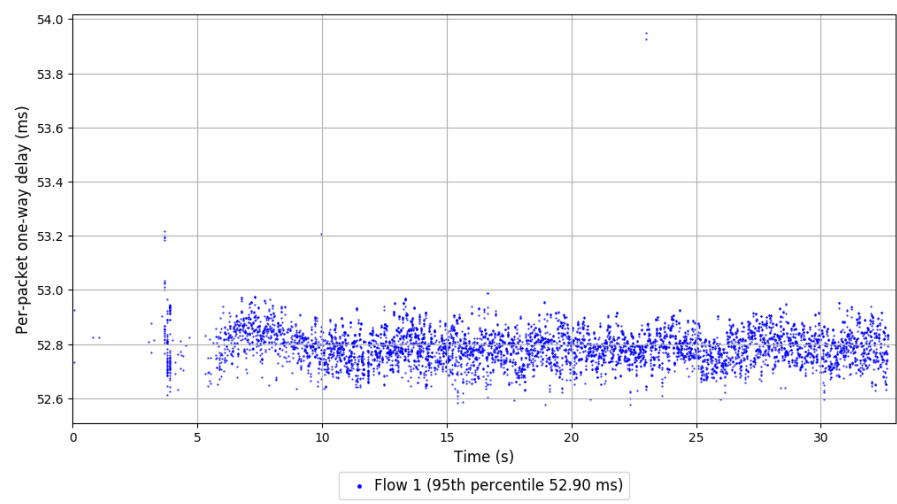
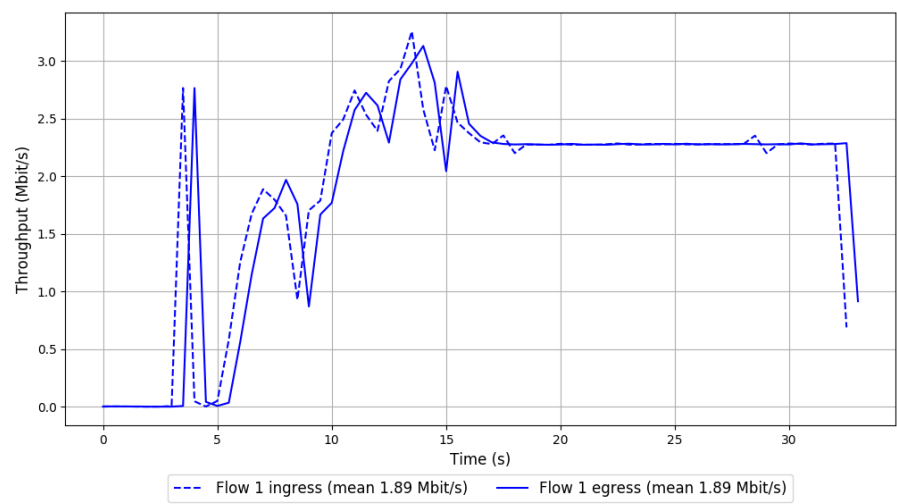


Run 9: Statistics of WebRTC media

Start at: 2018-08-03 07:57:08  
End at: 2018-08-03 07:57:38  
Local clock offset: 0.137 ms  
Remote clock offset: -0.183 ms

# Below is generated by plot.py at 2018-08-03 10:23:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.89 Mbit/s  
95th percentile per-packet one-way delay: 52.897 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.89 Mbit/s  
95th percentile per-packet one-way delay: 52.897 ms  
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-08-03 08:19:35

End at: 2018-08-03 08:20:05

Local clock offset: -0.271 ms

Remote clock offset: 0.209 ms

# Below is generated by plot.py at 2018-08-03 10:23:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 53.736 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 53.736 ms

Loss rate: 0.00%

# Run 10: Report of WebRTC media — Data Link

