

Pantheon Report

Generated at 2019-01-18 09:05:14 (UTC).

Data path: GCE Sydney on **ens4** (*local*) → GCE Tokyo on **ens4** (*remote*).

Repeated the test of 21 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

System info:

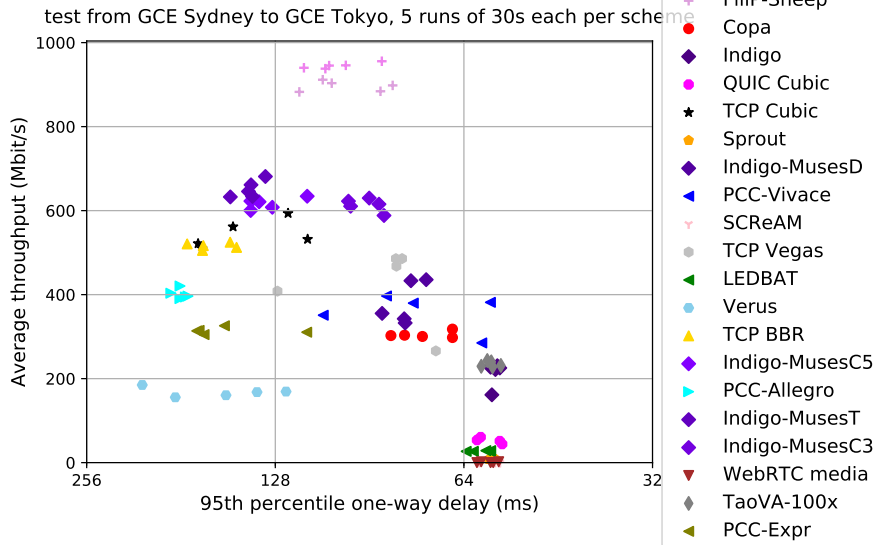
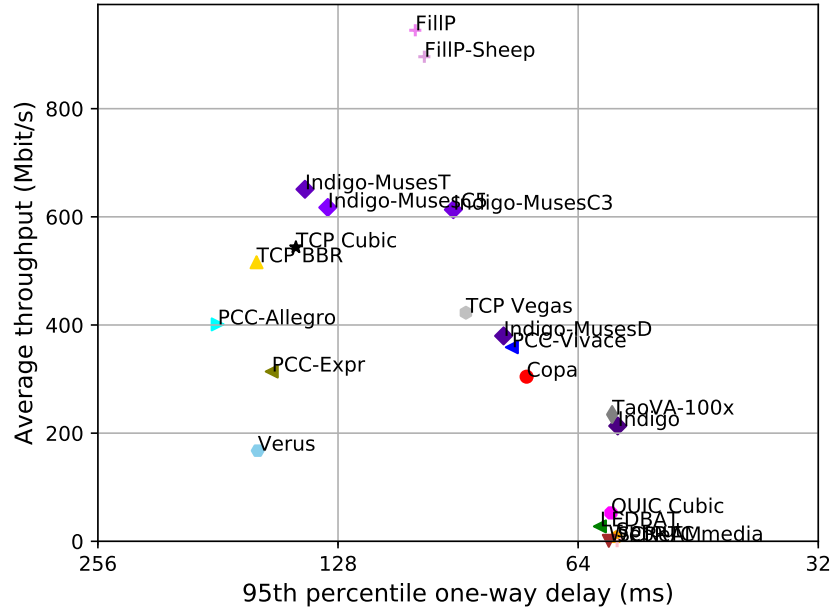
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ c80a283586bf7b0cc1fe08c69c8f60d56498f81c
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ c3eee875824760ec5b2fd207fefe166e1afe2170
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from GCE Sydney to GCE Tokyo, 5 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 | 5 | 516.02 | 161.93 | 1.07 |
| Copa | 5 | 304.40 | 74.27 | 0.01 |
| TCP Cubic | 5 | 543.67 | 144.55 | 0.20 |
| FillP | 5 | 944.97 | 102.41 | 0.26 |
| FillP-Sheep | 5 | 896.01 | 99.77 | 0.33 |
| Indigo | 5 | 213.31 | 57.10 | 0.00 |
| Indigo-MusesC3 | 5 | 613.31 | 91.76 | 0.06 |
| Indigo-MusesC5 | 5 | 617.27 | 131.85 | 0.22 |
| Indigo-MusesD | 5 | 379.83 | 79.37 | 0.01 |
| Indigo-MusesT | 5 | 650.92 | 140.82 | 0.28 |
| LEDBAT | 5 | 27.58 | 60.10 | 0.00 |
| PCC-Allegro | 5 | 401.08 | 181.15 | 2.80 |
| PCC-Expr | 5 | 313.93 | 154.99 | 2.78 |
| QUIC Cubic | 4 | 52.53 | 58.22 | 0.01 |
| SCReAM | 5 | 0.22 | 57.19 | 0.00 |
| Sprout | 5 | 7.63 | 57.37 | 0.00 |
| TaoVA-100x | 5 | 234.42 | 58.02 | 0.00 |
| TCP Vegas | 5 | 422.67 | 88.49 | 0.01 |
| Verus | 5 | 167.63 | 161.38 | 0.51 |
| PCC-Vivace | 5 | 358.84 | 77.50 | 0.02 |
| WebRTC media | 5 | 0.86 | 58.58 | 0.00 |

Run 1: Statistics of TCP BBR

Start at: 2019-01-18 04:23:24

End at: 2019-01-18 04:23:54

Local clock offset: -0.543 ms

Remote clock offset: 0.339 ms

Below is generated by plot.py at 2019-01-18 07:20:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 512.50 Mbit/s

95th percentile per-packet one-way delay: 147.591 ms

Loss rate: 0.61%

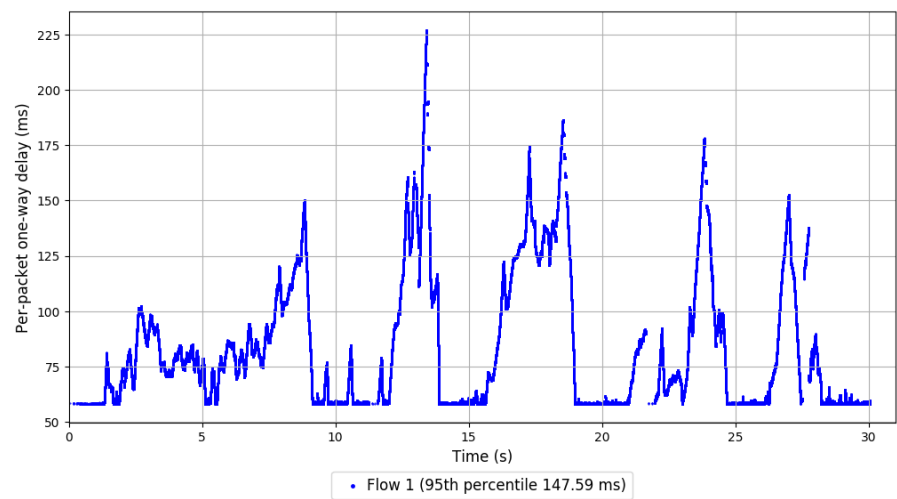
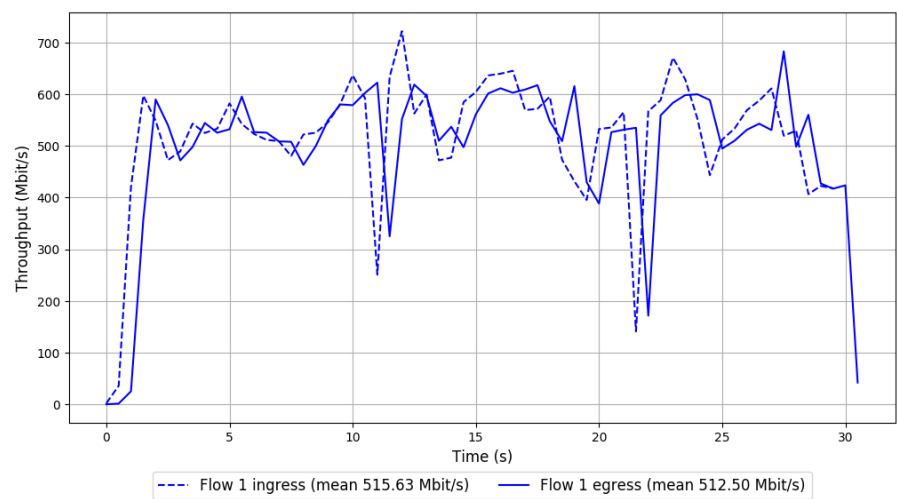
-- Flow 1:

Average throughput: 512.50 Mbit/s

95th percentile per-packet one-way delay: 147.591 ms

Loss rate: 0.61%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-01-18 04:54:56

End at: 2019-01-18 04:55:26

Local clock offset: -0.046 ms

Remote clock offset: 0.609 ms

Below is generated by plot.py at 2019-01-18 07:20:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 516.76 Mbit/s

95th percentile per-packet one-way delay: 166.764 ms

Loss rate: 1.30%

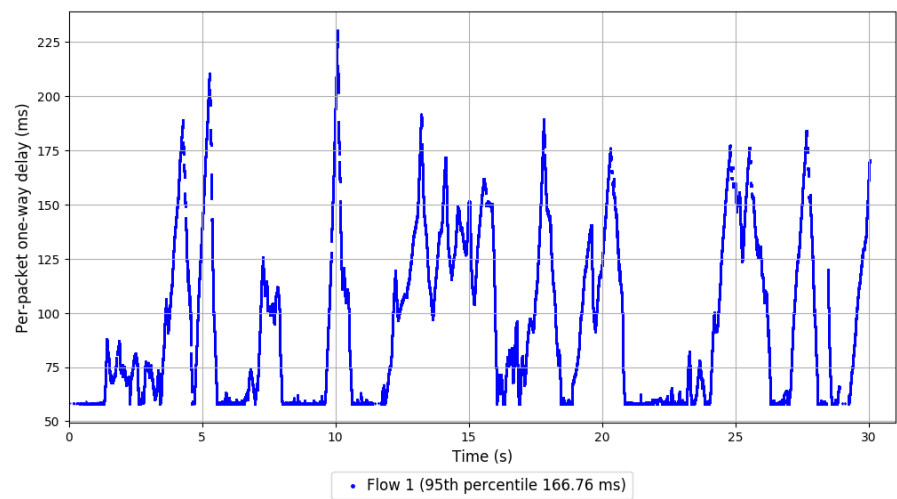
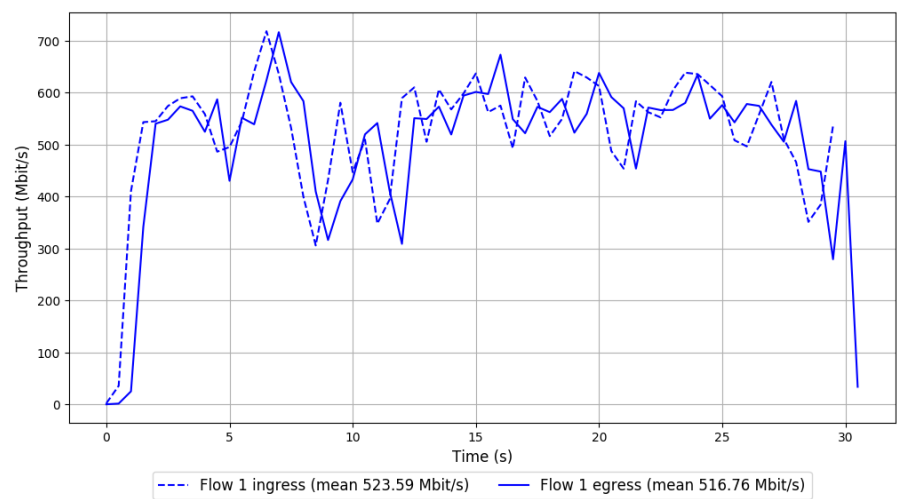
-- Flow 1:

Average throughput: 516.76 Mbit/s

95th percentile per-packet one-way delay: 166.764 ms

Loss rate: 1.30%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-01-18 05:26:56

End at: 2019-01-18 05:27:26

Local clock offset: -0.106 ms

Remote clock offset: 0.049 ms

Below is generated by plot.py at 2019-01-18 07:20:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 524.80 Mbit/s

95th percentile per-packet one-way delay: 151.098 ms

Loss rate: 0.64%

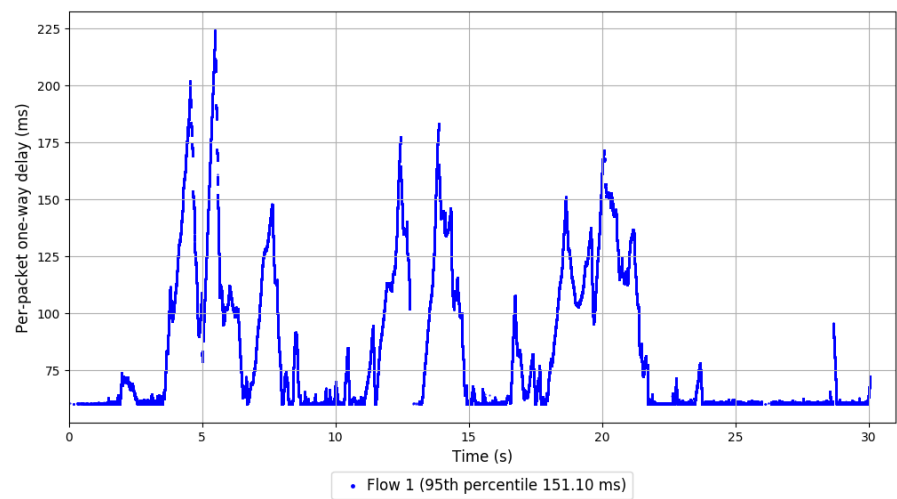
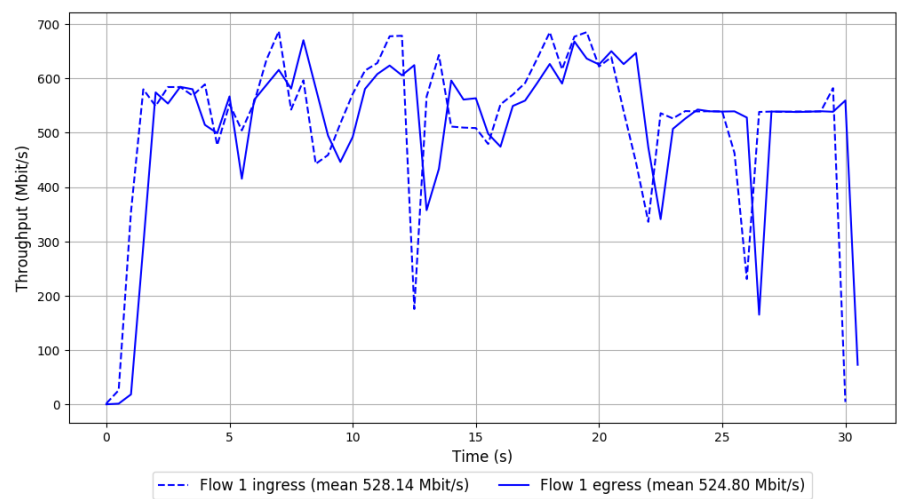
-- Flow 1:

Average throughput: 524.80 Mbit/s

95th percentile per-packet one-way delay: 151.098 ms

Loss rate: 0.64%

Run 3: Report of TCP BBR — Data Link

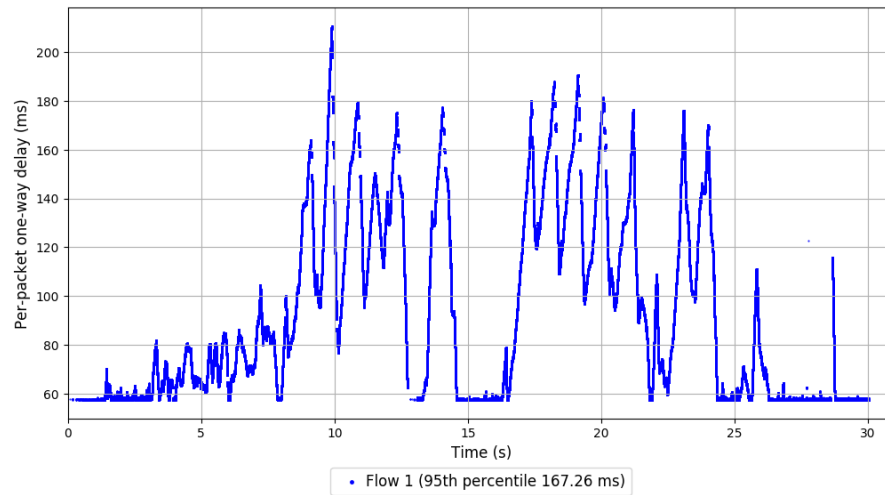
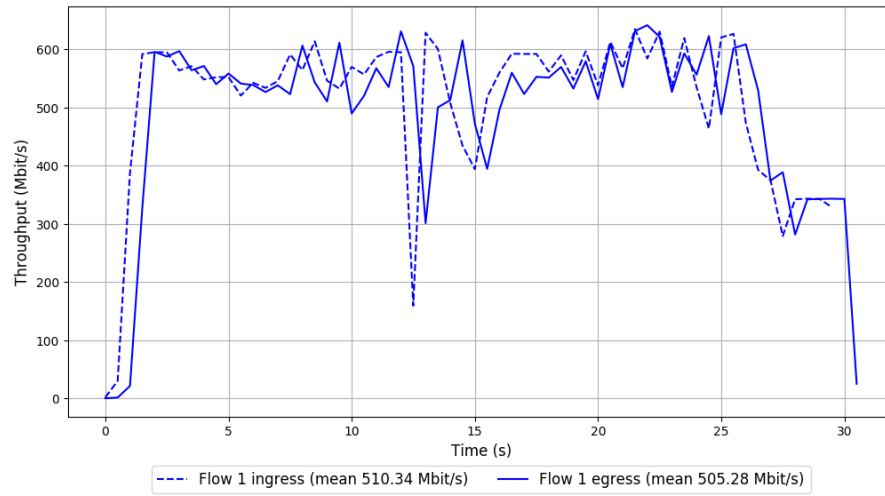


Run 4: Statistics of TCP BBR

Start at: 2019-01-18 05:59:38
End at: 2019-01-18 06:00:08
Local clock offset: -0.137 ms
Remote clock offset: -0.042 ms

Below is generated by plot.py at 2019-01-18 07:20:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 505.28 Mbit/s
95th percentile per-packet one-way delay: 167.256 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 505.28 Mbit/s
95th percentile per-packet one-way delay: 167.256 ms
Loss rate: 0.99%

Run 4: Report of TCP BBR — Data Link

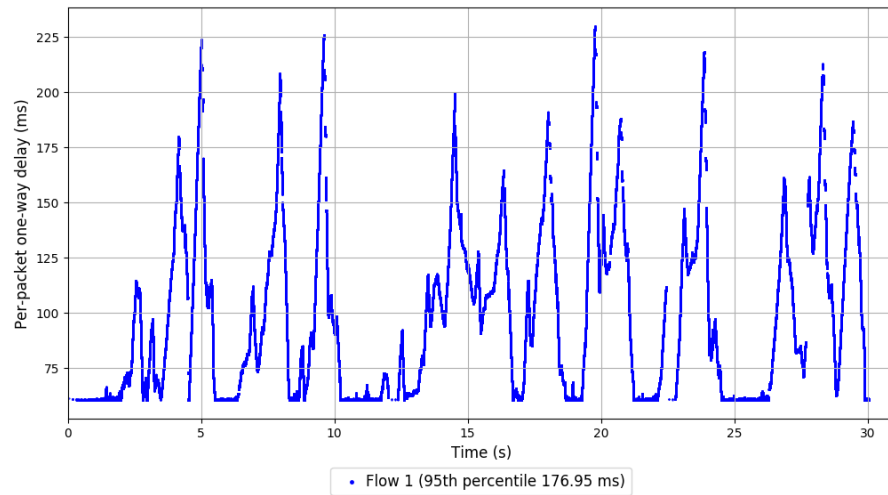
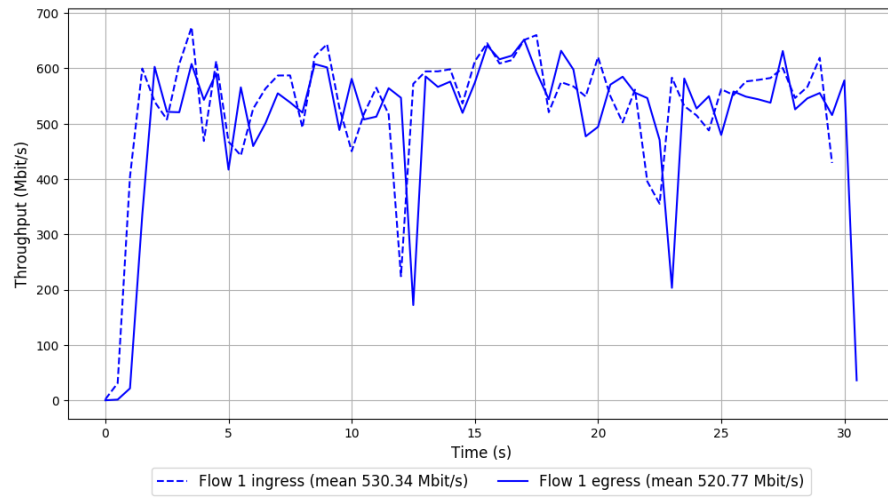


Run 5: Statistics of TCP BBR

Start at: 2019-01-18 06:32:32
End at: 2019-01-18 06:33:02
Local clock offset: -0.313 ms
Remote clock offset: -0.157 ms

Below is generated by plot.py at 2019-01-18 07:20:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 520.77 Mbit/s
95th percentile per-packet one-way delay: 176.949 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 520.77 Mbit/s
95th percentile per-packet one-way delay: 176.949 ms
Loss rate: 1.81%

Run 5: Report of TCP BBR — Data Link

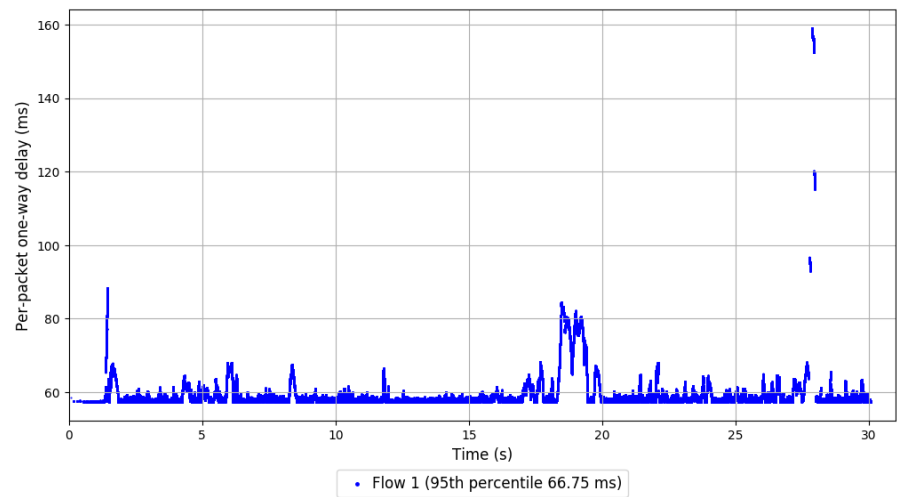
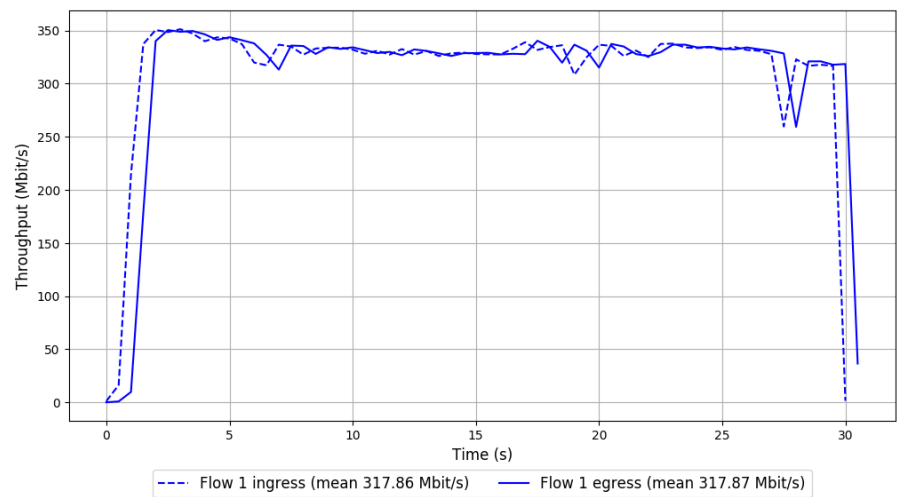


Run 1: Statistics of Copa

Start at: 2019-01-18 04:34:23
End at: 2019-01-18 04:34:53
Local clock offset: -0.582 ms
Remote clock offset: -0.074 ms

Below is generated by plot.py at 2019-01-18 07:21:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 317.87 Mbit/s
95th percentile per-packet one-way delay: 66.753 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 317.87 Mbit/s
95th percentile per-packet one-way delay: 66.753 ms
Loss rate: 0.00%

Run 1: Report of Copa — Data Link

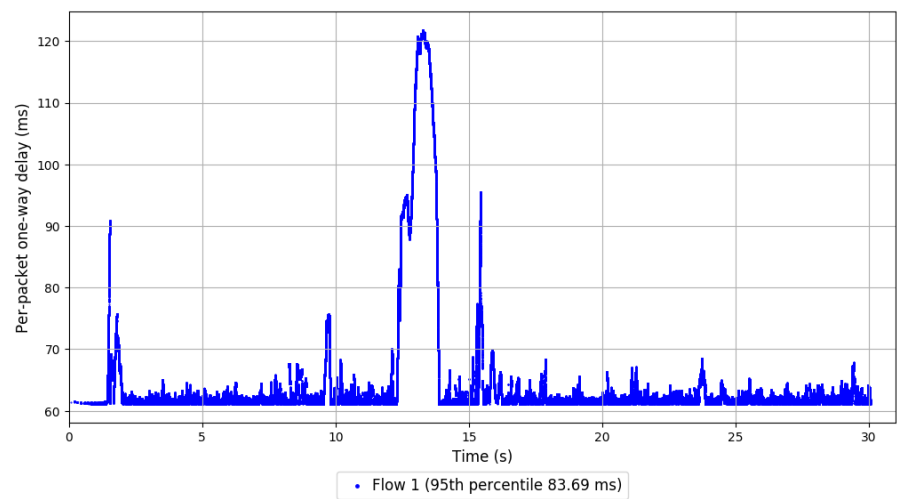
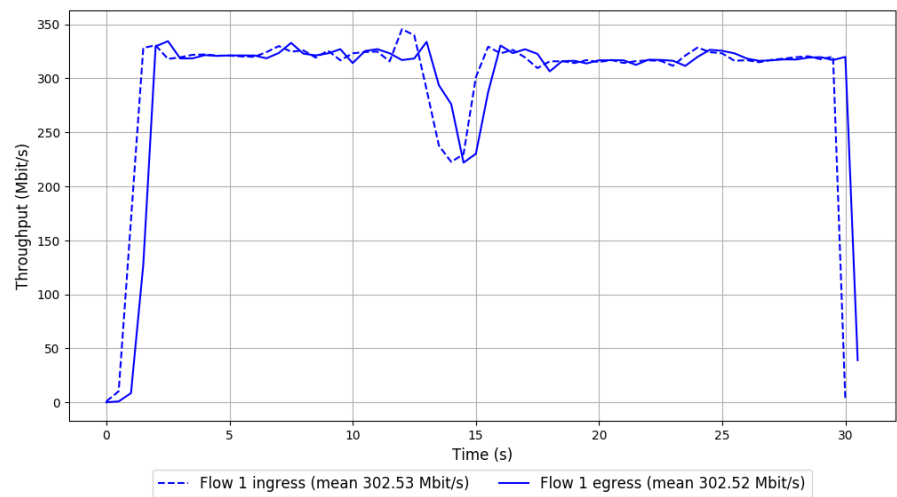


Run 2: Statistics of Copa

Start at: 2019-01-18 05:06:06
End at: 2019-01-18 05:06:36
Local clock offset: -0.061 ms
Remote clock offset: 0.617 ms

Below is generated by plot.py at 2019-01-18 07:21:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 302.52 Mbit/s
95th percentile per-packet one-way delay: 83.692 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 302.52 Mbit/s
95th percentile per-packet one-way delay: 83.692 ms
Loss rate: 0.01%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-01-18 05:37:53

End at: 2019-01-18 05:38:23

Local clock offset: 0.072 ms

Remote clock offset: 0.671 ms

Below is generated by plot.py at 2019-01-18 07:21:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 297.86 Mbit/s

95th percentile per-packet one-way delay: 66.752 ms

Loss rate: 0.00%

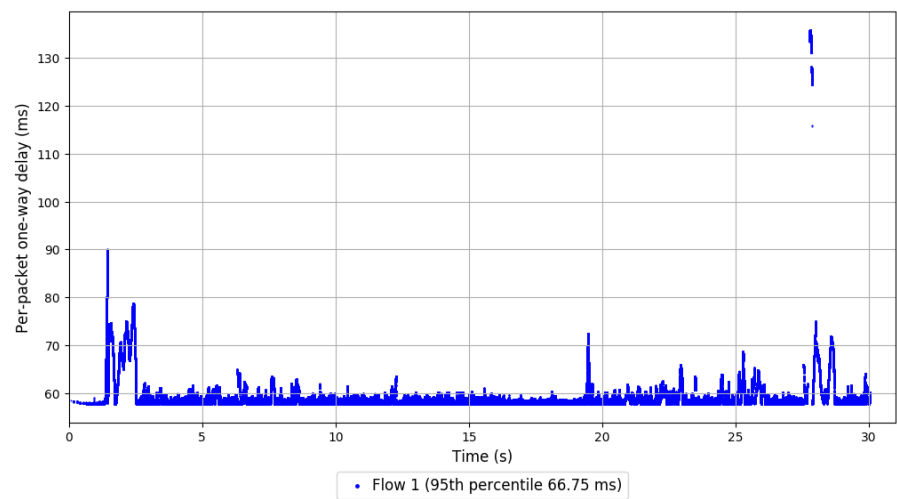
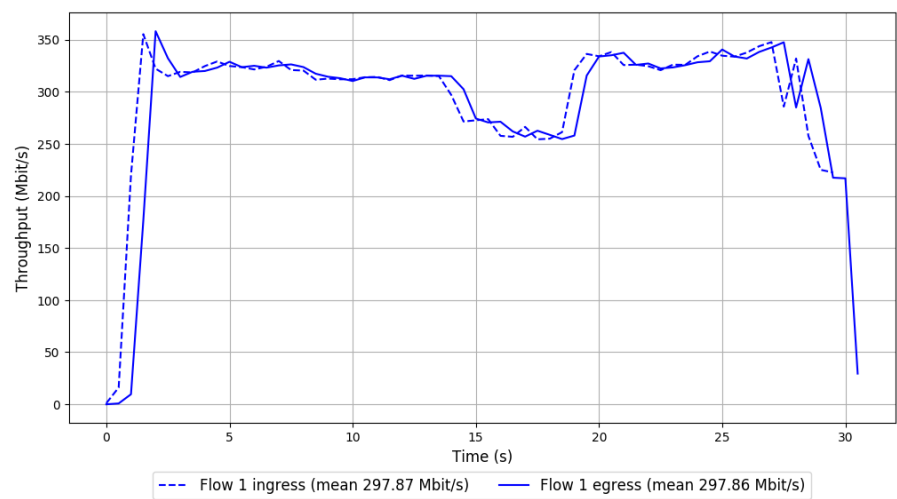
-- Flow 1:

Average throughput: 297.86 Mbit/s

95th percentile per-packet one-way delay: 66.752 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link

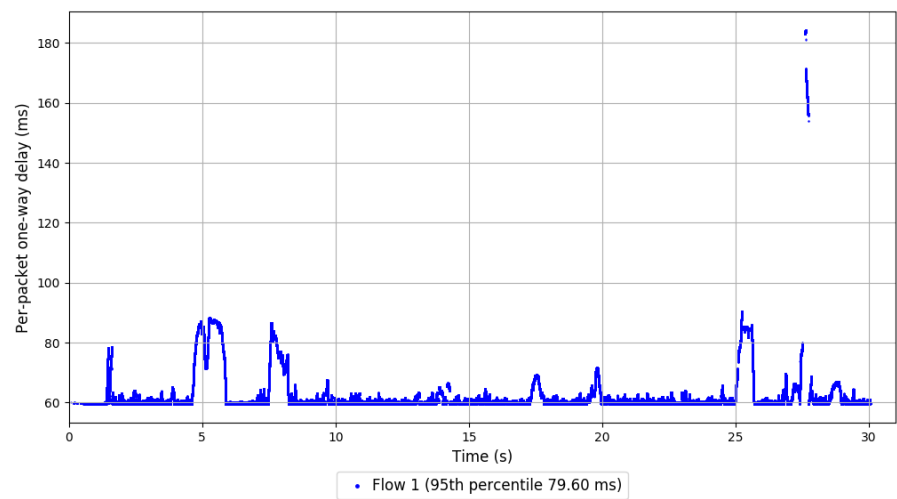
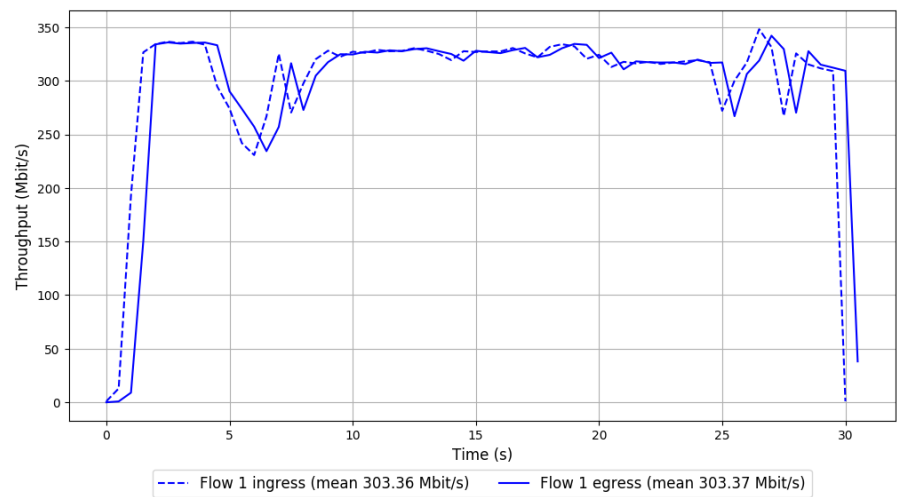


Run 4: Statistics of Copa

Start at: 2019-01-18 06:11:28
End at: 2019-01-18 06:11:58
Local clock offset: 0.122 ms
Remote clock offset: -0.575 ms

Below is generated by plot.py at 2019-01-18 07:30:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 303.37 Mbit/s
95th percentile per-packet one-way delay: 79.603 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 303.37 Mbit/s
95th percentile per-packet one-way delay: 79.603 ms
Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-01-18 06:43:21

End at: 2019-01-18 06:43:51

Local clock offset: 0.172 ms

Remote clock offset: -0.14 ms

Below is generated by plot.py at 2019-01-18 07:31:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 300.40 Mbit/s

95th percentile per-packet one-way delay: 74.542 ms

Loss rate: 0.01%

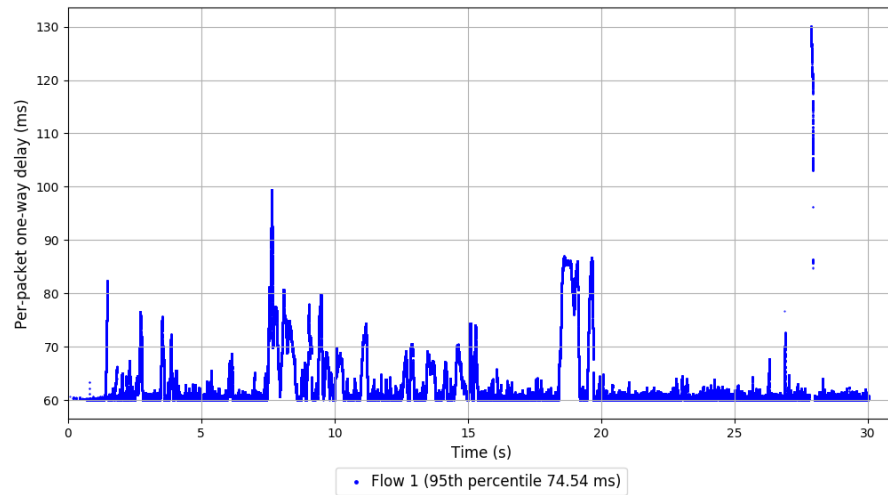
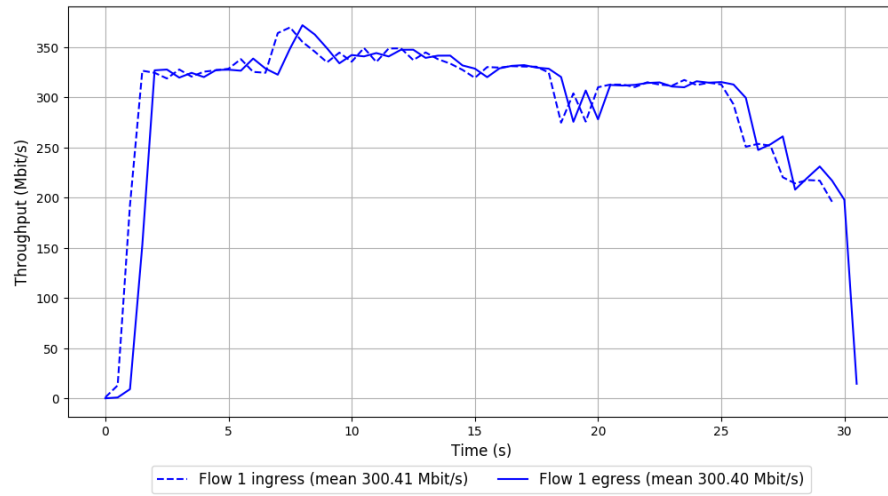
-- Flow 1:

Average throughput: 300.40 Mbit/s

95th percentile per-packet one-way delay: 74.542 ms

Loss rate: 0.01%

Run 5: Report of Copa — Data Link

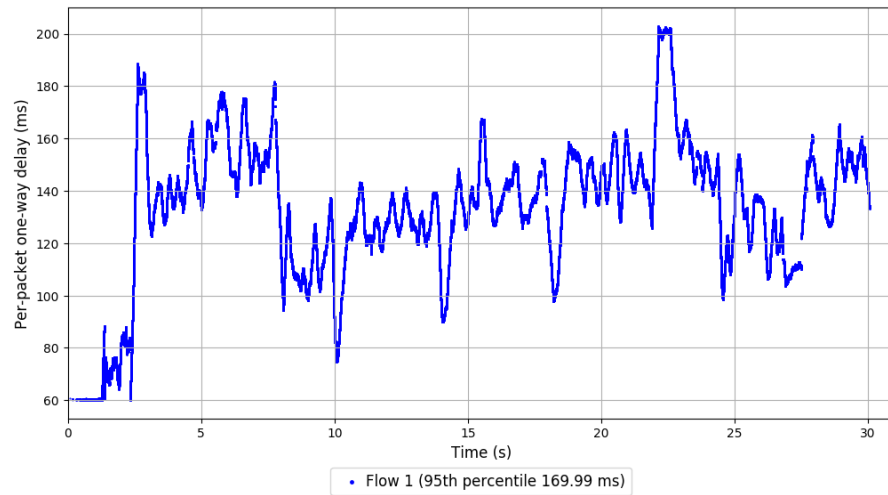
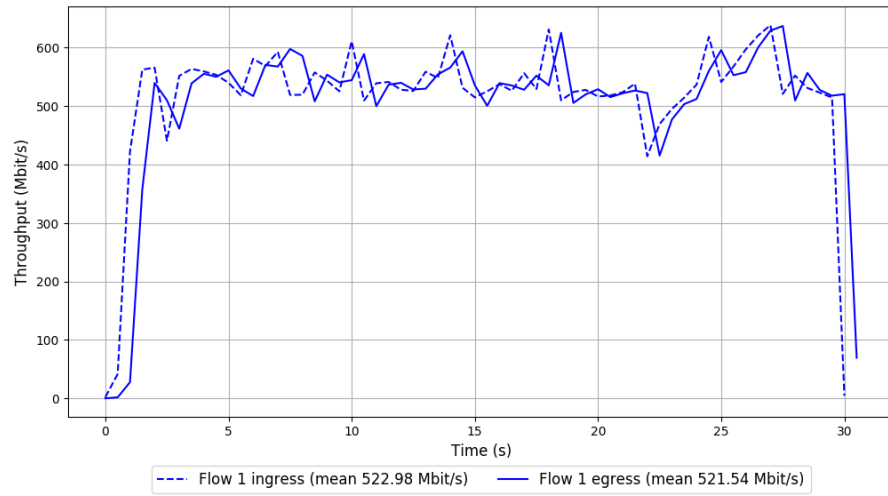


Run 1: Statistics of TCP Cubic

Start at: 2019-01-18 04:25:10
End at: 2019-01-18 04:25:40
Local clock offset: -0.265 ms
Remote clock offset: -0.617 ms

Below is generated by plot.py at 2019-01-18 07:31:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 521.54 Mbit/s
95th percentile per-packet one-way delay: 169.989 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 521.54 Mbit/s
95th percentile per-packet one-way delay: 169.989 ms
Loss rate: 0.29%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-01-18 04:56:32

End at: 2019-01-18 04:57:02

Local clock offset: 0.451 ms

Remote clock offset: 0.615 ms

Below is generated by plot.py at 2019-01-18 07:31:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 509.64 Mbit/s

95th percentile per-packet one-way delay: 167.444 ms

Loss rate: 0.39%

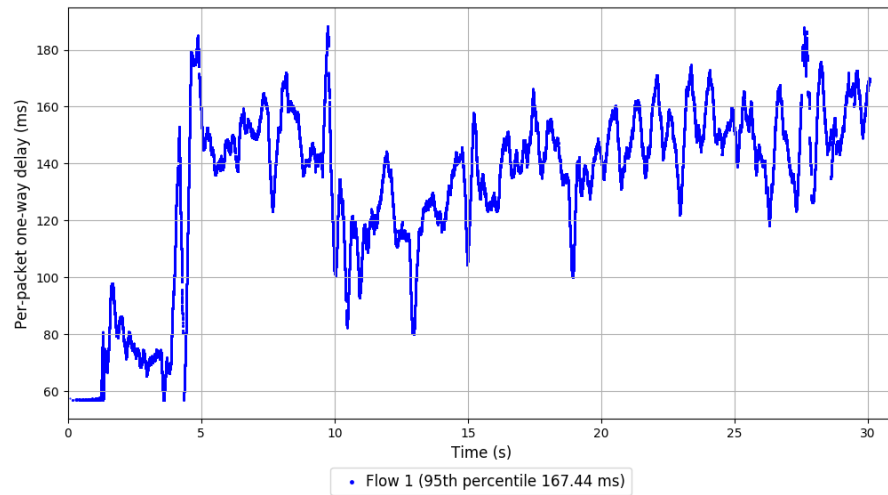
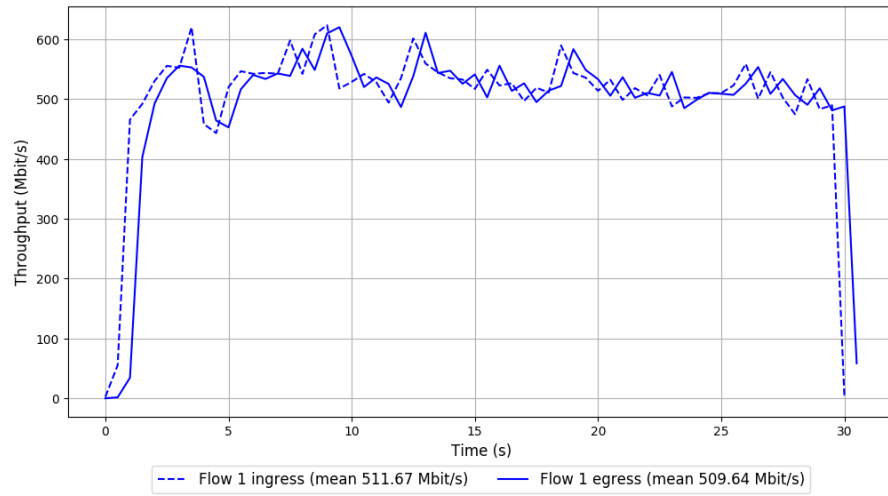
-- Flow 1:

Average throughput: 509.64 Mbit/s

95th percentile per-packet one-way delay: 167.444 ms

Loss rate: 0.39%

Run 2: Report of TCP Cubic — Data Link

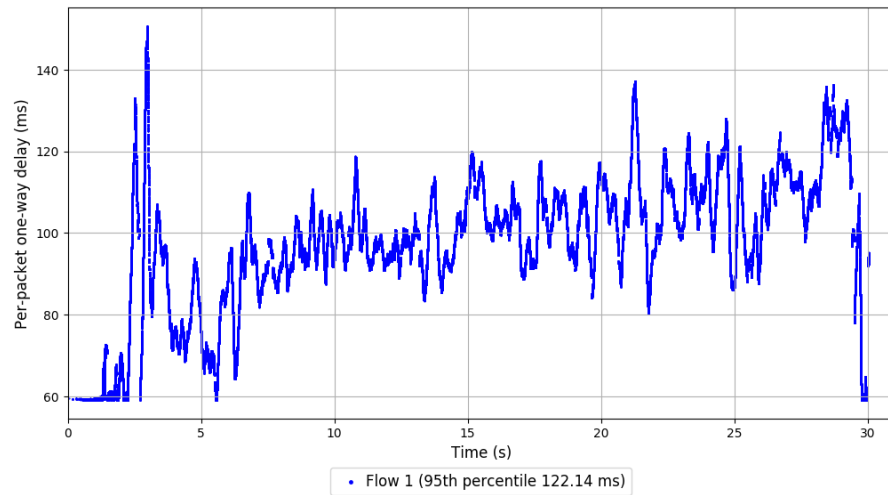
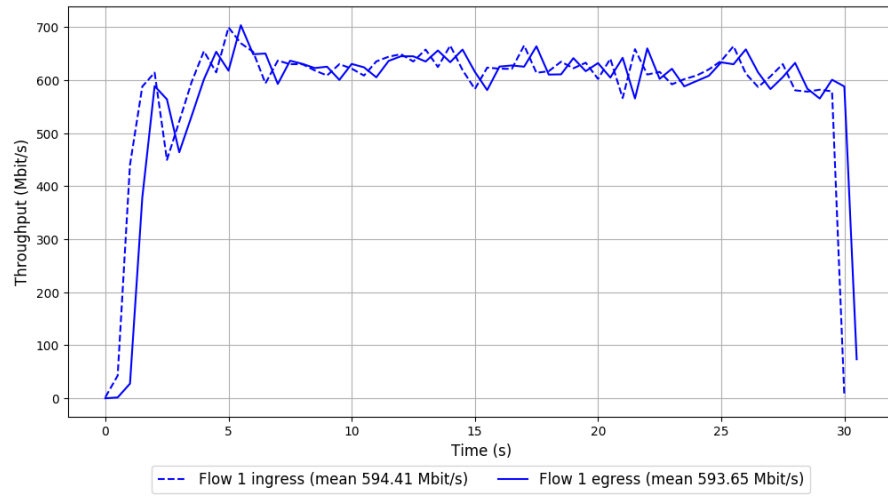


Run 3: Statistics of TCP Cubic

Start at: 2019-01-18 05:28:38
End at: 2019-01-18 05:29:08
Local clock offset: 0.297 ms
Remote clock offset: -0.702 ms

Below is generated by plot.py at 2019-01-18 07:31:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 593.65 Mbit/s
95th percentile per-packet one-way delay: 122.139 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 593.65 Mbit/s
95th percentile per-packet one-way delay: 122.139 ms
Loss rate: 0.13%

Run 3: Report of TCP Cubic — Data Link

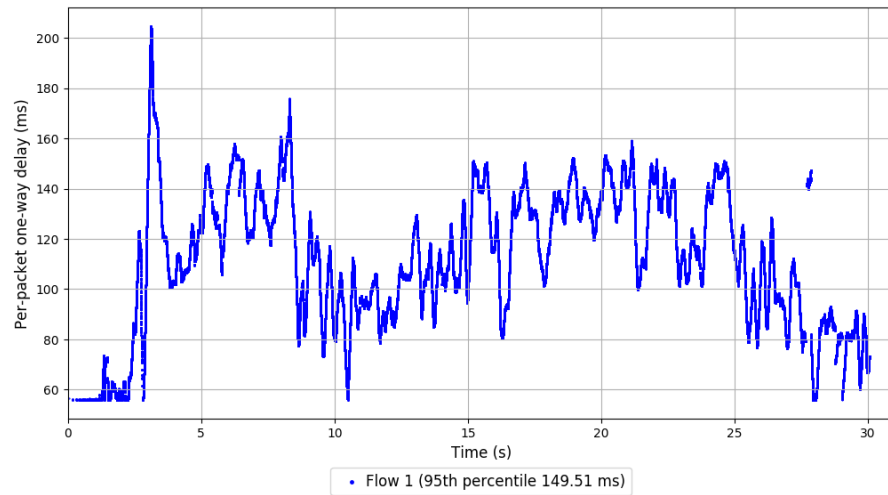
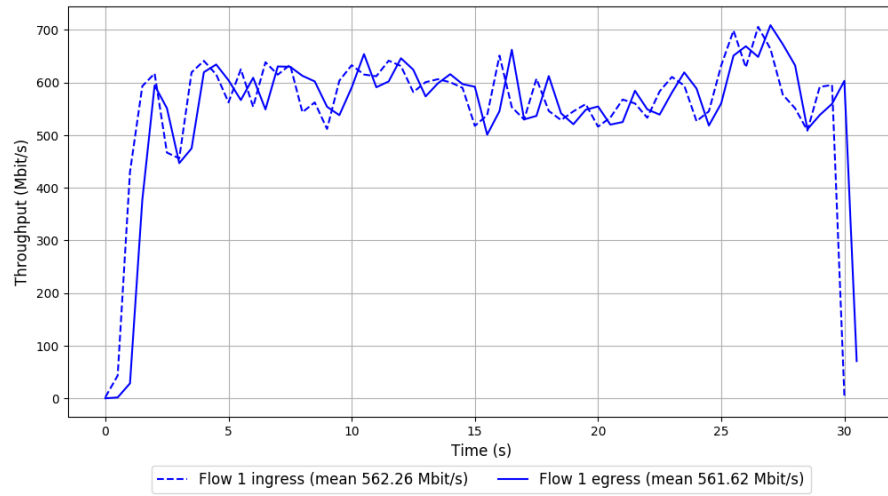


Run 4: Statistics of TCP Cubic

Start at: 2019-01-18 06:01:21
End at: 2019-01-18 06:01:51
Local clock offset: 0.262 ms
Remote clock offset: -0.716 ms

Below is generated by plot.py at 2019-01-18 07:31:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 561.62 Mbit/s
95th percentile per-packet one-way delay: 149.507 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 561.62 Mbit/s
95th percentile per-packet one-way delay: 149.507 ms
Loss rate: 0.11%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-01-18 06:34:09

End at: 2019-01-18 06:34:39

Local clock offset: -0.414 ms

Remote clock offset: 0.072 ms

Below is generated by plot.py at 2019-01-18 07:31:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 531.92 Mbit/s

95th percentile per-packet one-way delay: 113.667 ms

Loss rate: 0.09%

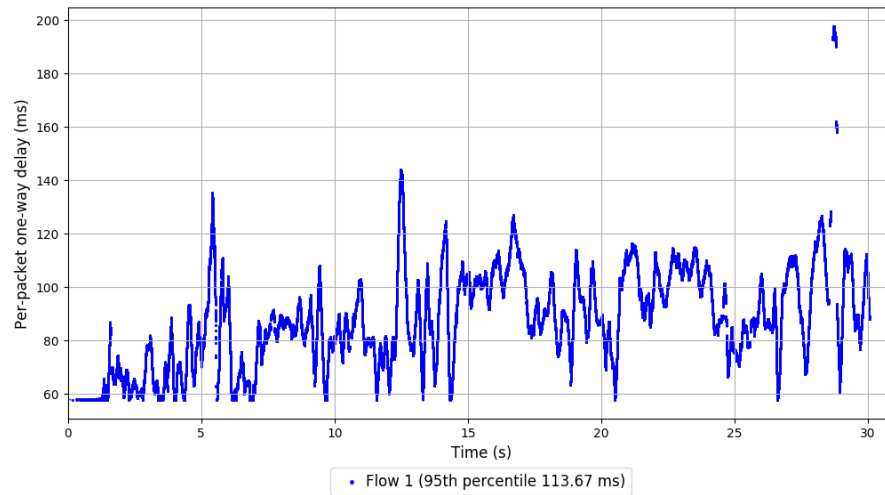
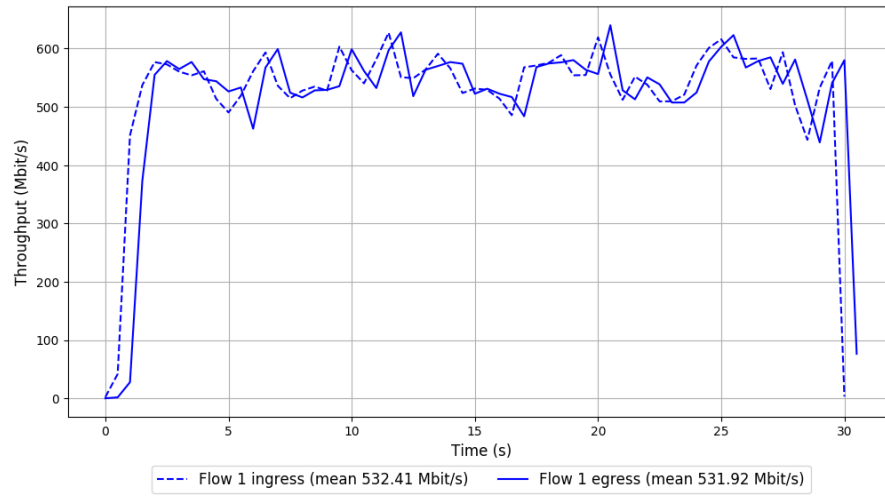
-- Flow 1:

Average throughput: 531.92 Mbit/s

95th percentile per-packet one-way delay: 113.667 ms

Loss rate: 0.09%

Run 5: Report of TCP Cubic — Data Link

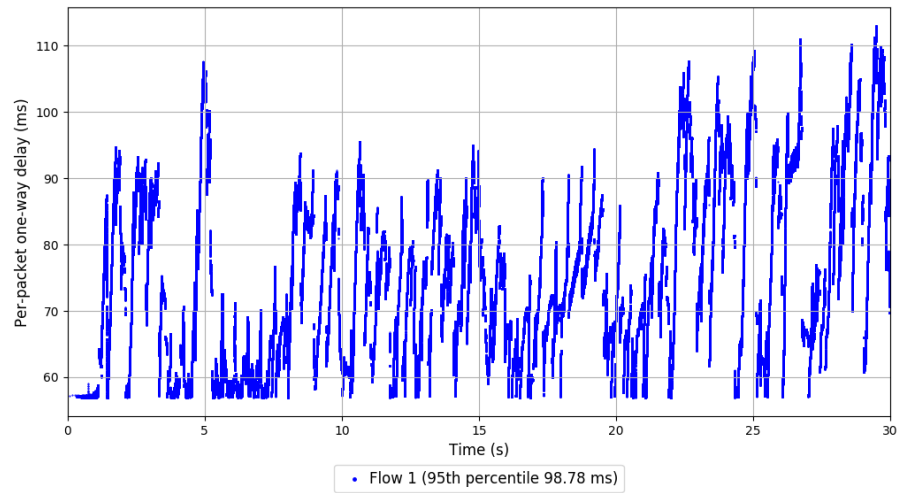
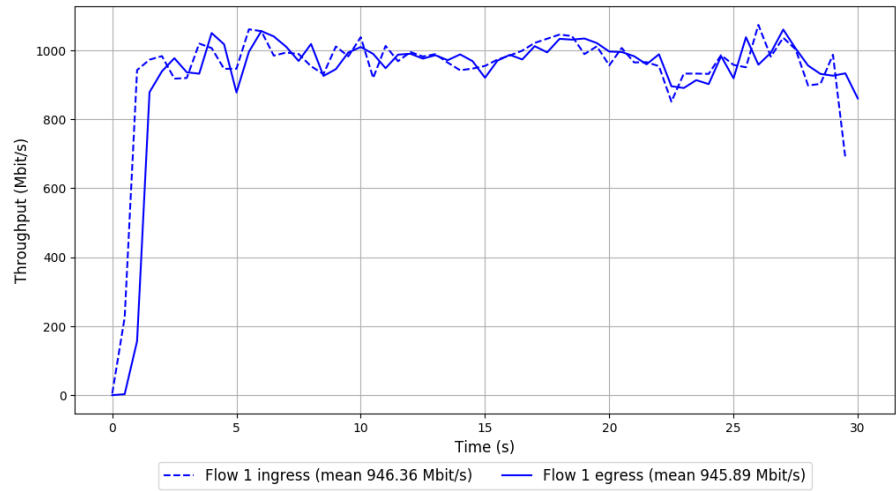


Run 1: Statistics of FillP

Start at: 2019-01-18 04:21:38
End at: 2019-01-18 04:22:08
Local clock offset: -0.197 ms
Remote clock offset: -0.092 ms

Below is generated by plot.py at 2019-01-18 07:40:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 945.89 Mbit/s
95th percentile per-packet one-way delay: 98.782 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 945.89 Mbit/s
95th percentile per-packet one-way delay: 98.782 ms
Loss rate: 0.03%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-01-18 04:53:09

End at: 2019-01-18 04:53:39

Local clock offset: 0.352 ms

Remote clock offset: 0.047 ms

Below is generated by plot.py at 2019-01-18 07:51:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 937.97 Mbit/s

95th percentile per-packet one-way delay: 106.493 ms

Loss rate: 0.32%

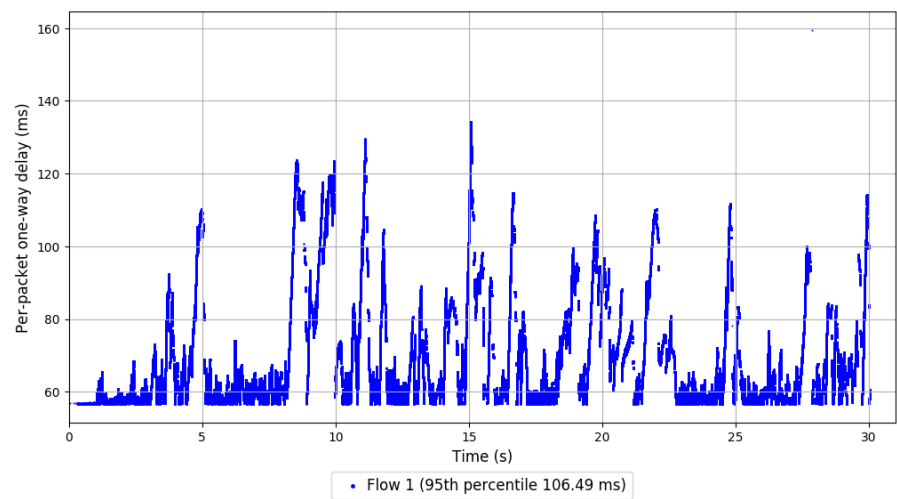
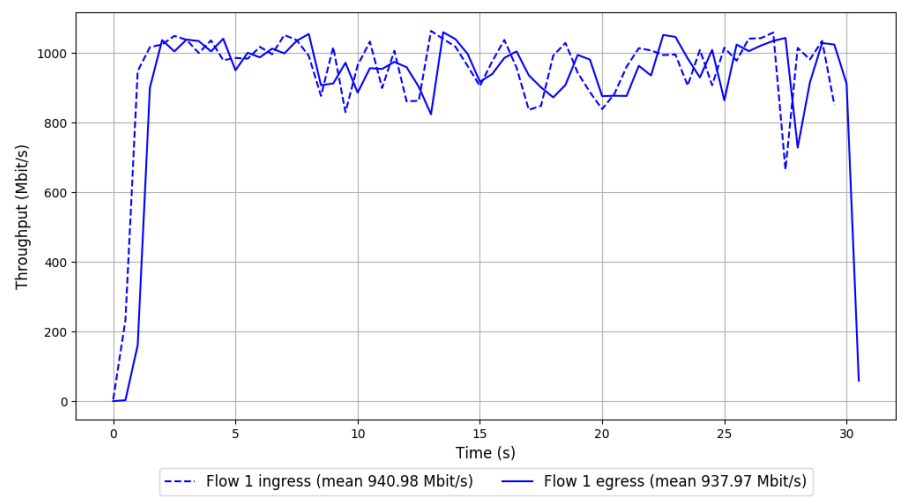
-- Flow 1:

Average throughput: 937.97 Mbit/s

95th percentile per-packet one-way delay: 106.493 ms

Loss rate: 0.32%

Run 2: Report of FillP — Data Link

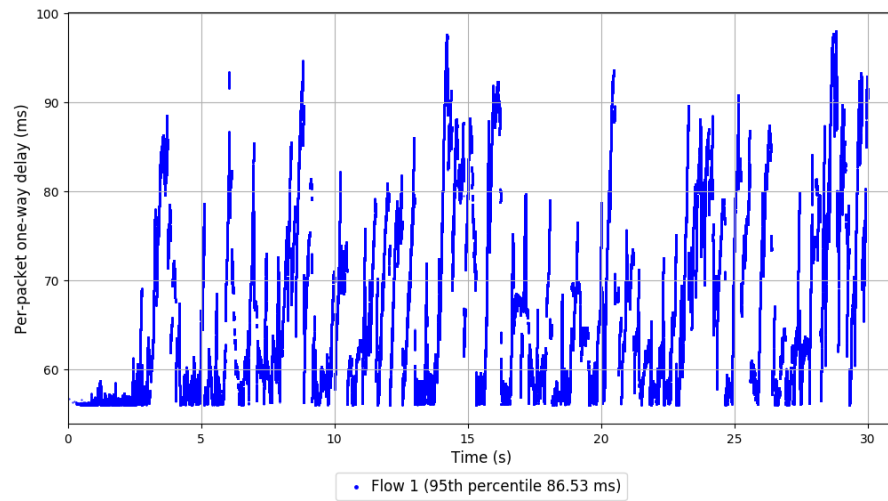
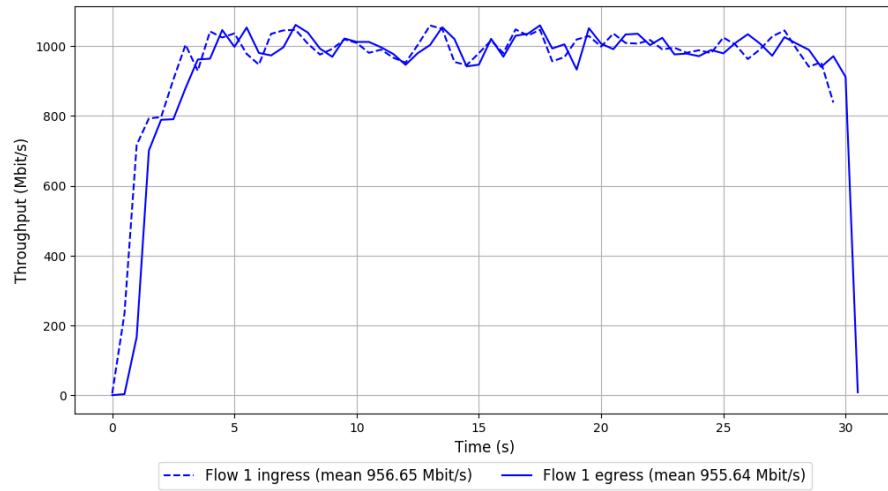


Run 3: Statistics of FillP

Start at: 2019-01-18 05:25:04
End at: 2019-01-18 05:25:34
Local clock offset: 0.002 ms
Remote clock offset: -0.636 ms

Below is generated by plot.py at 2019-01-18 07:52:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 955.64 Mbit/s
95th percentile per-packet one-way delay: 86.534 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 955.64 Mbit/s
95th percentile per-packet one-way delay: 86.534 ms
Loss rate: 0.10%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-01-18 05:57:35

End at: 2019-01-18 05:58:05

Local clock offset: 0.169 ms

Remote clock offset: 0.506 ms

Below is generated by plot.py at 2019-01-18 07:52:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 940.05 Mbit/s

95th percentile per-packet one-way delay: 115.214 ms

Loss rate: 0.48%

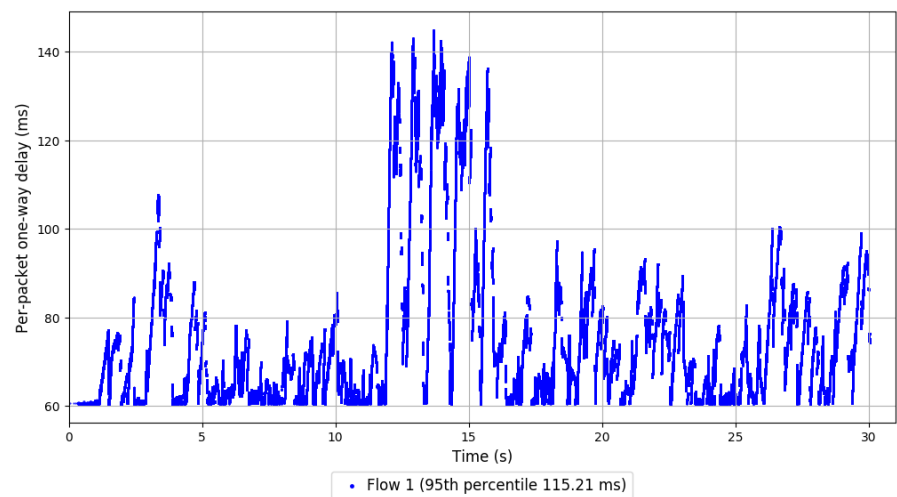
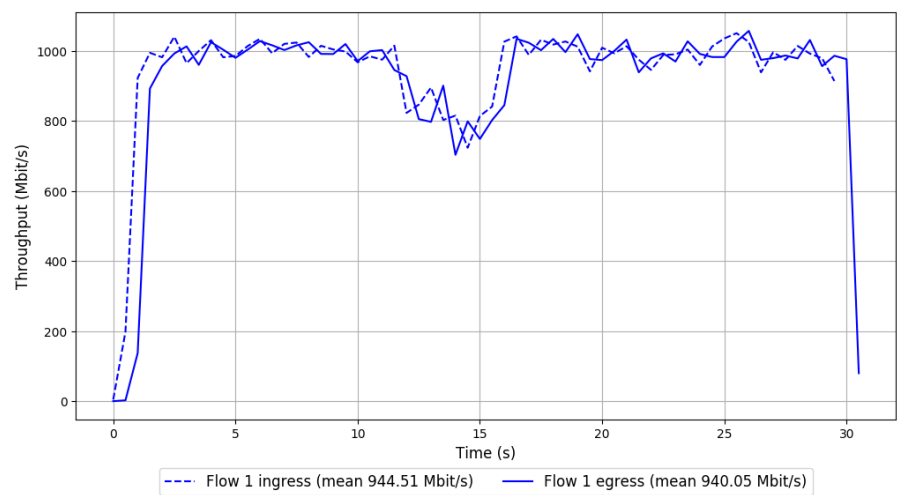
-- Flow 1:

Average throughput: 940.05 Mbit/s

95th percentile per-packet one-way delay: 115.214 ms

Loss rate: 0.48%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-01-18 06:30:46

End at: 2019-01-18 06:31:16

Local clock offset: 0.222 ms

Remote clock offset: 0.433 ms

Below is generated by plot.py at 2019-01-18 07:52:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 945.31 Mbit/s

95th percentile per-packet one-way delay: 105.027 ms

Loss rate: 0.39%

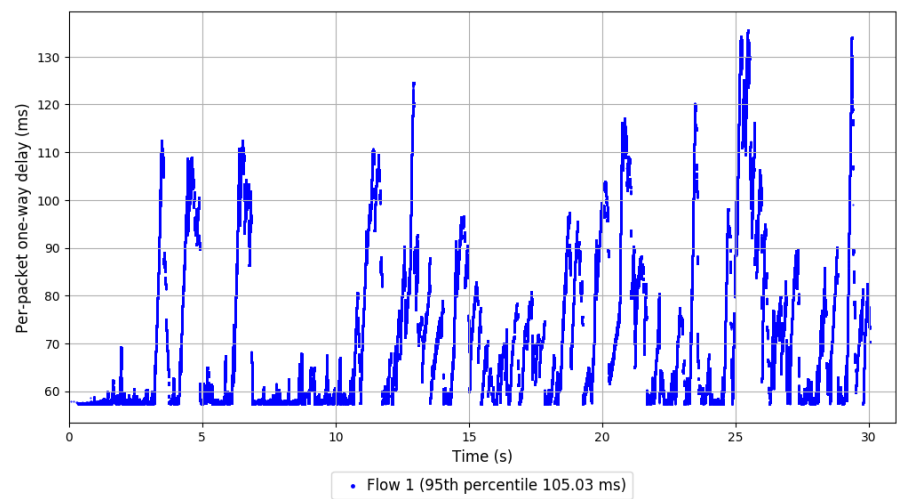
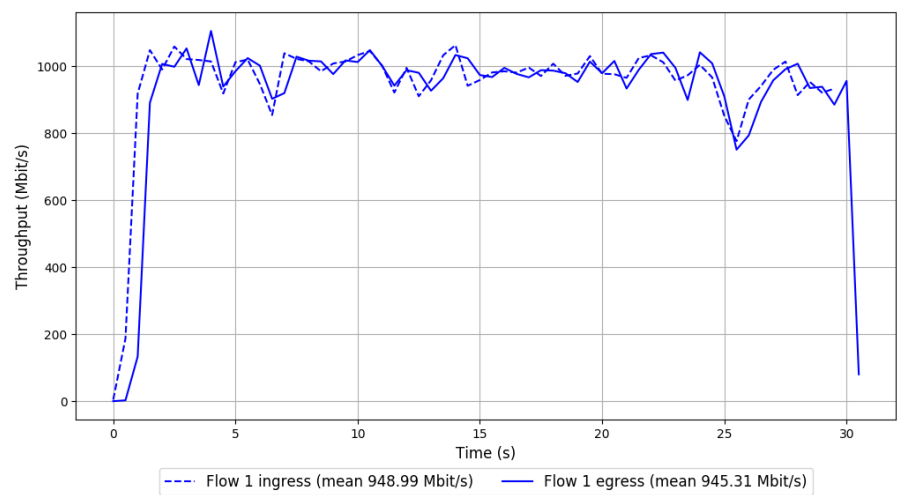
-- Flow 1:

Average throughput: 945.31 Mbit/s

95th percentile per-packet one-way delay: 105.027 ms

Loss rate: 0.39%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-01-18 04:32:38

End at: 2019-01-18 04:33:09

Local clock offset: -0.425 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2019-01-18 07:52:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 884.15 Mbit/s

95th percentile per-packet one-way delay: 86.967 ms

Loss rate: 0.28%

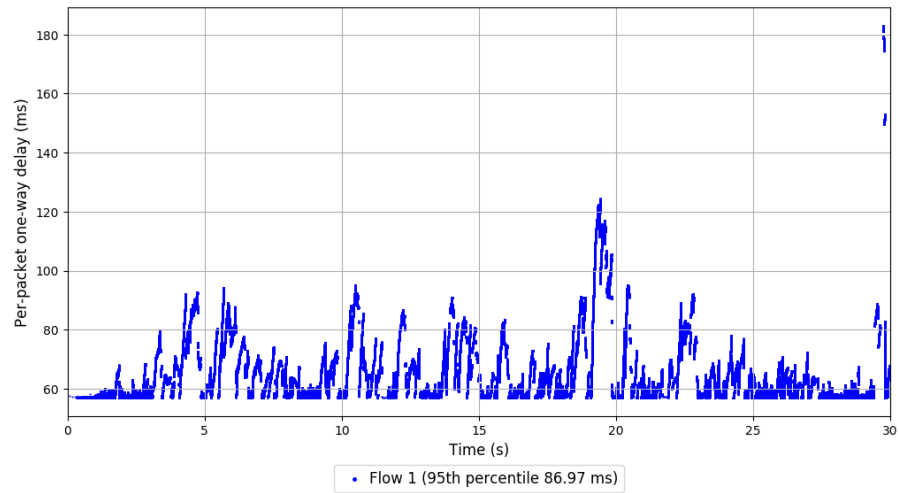
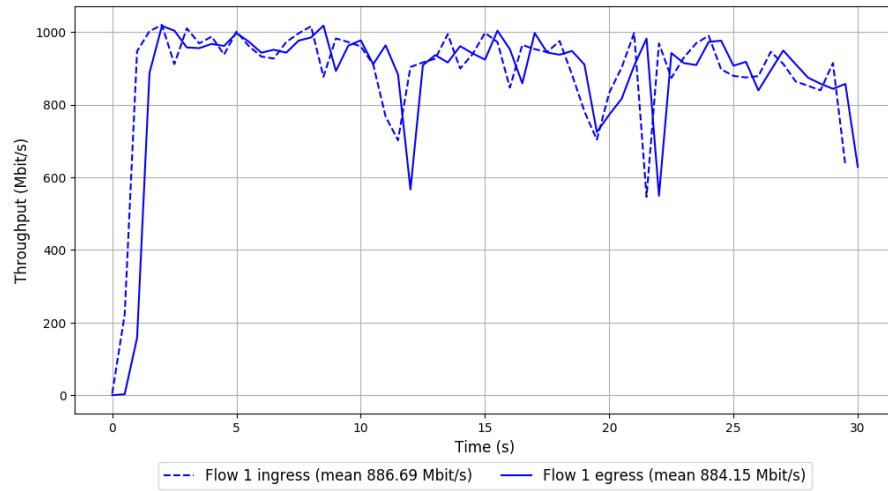
-- Flow 1:

Average throughput: 884.15 Mbit/s

95th percentile per-packet one-way delay: 86.967 ms

Loss rate: 0.28%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-01-18 05:04:16

End at: 2019-01-18 05:04:46

Local clock offset: 0.249 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2019-01-18 07:52:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 903.46 Mbit/s

95th percentile per-packet one-way delay: 104.028 ms

Loss rate: 0.21%

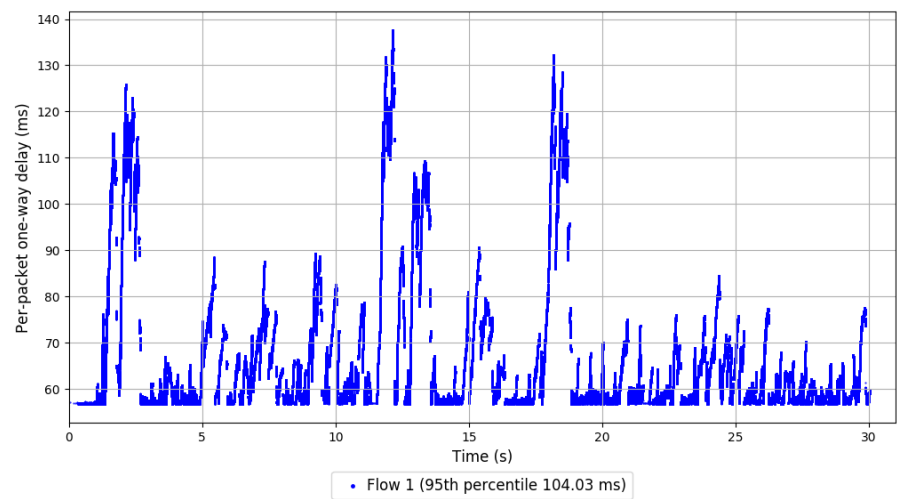
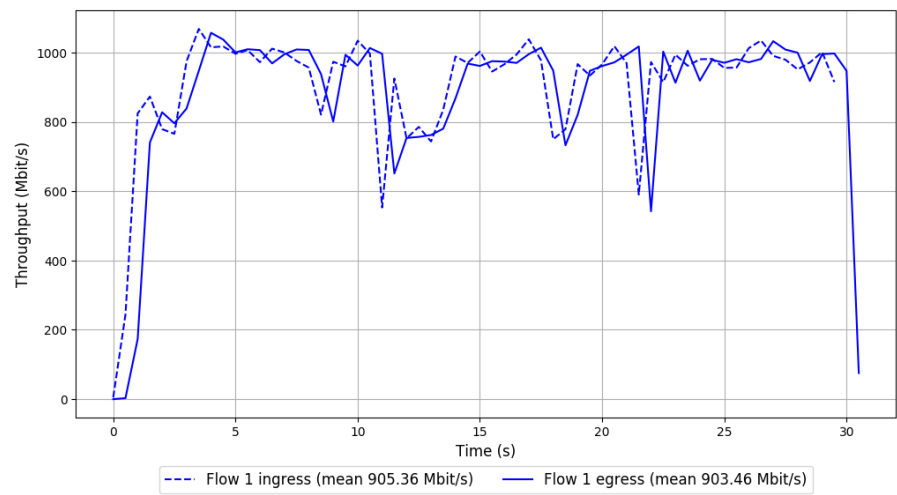
-- Flow 1:

Average throughput: 903.46 Mbit/s

95th percentile per-packet one-way delay: 104.028 ms

Loss rate: 0.21%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-01-18 05:36:07

End at: 2019-01-18 05:36:38

Local clock offset: -0.357 ms

Remote clock offset: 0.634 ms

Below is generated by plot.py at 2019-01-18 07:52:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 898.14 Mbit/s

95th percentile per-packet one-way delay: 83.152 ms

Loss rate: 0.01%

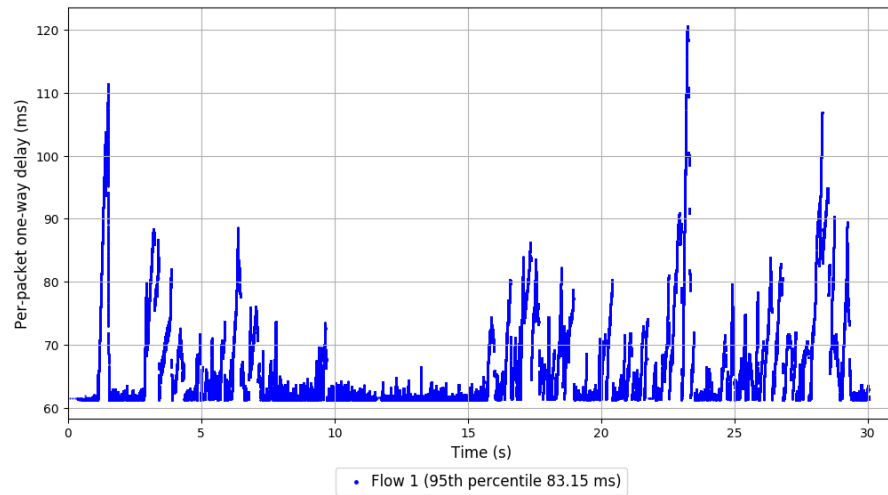
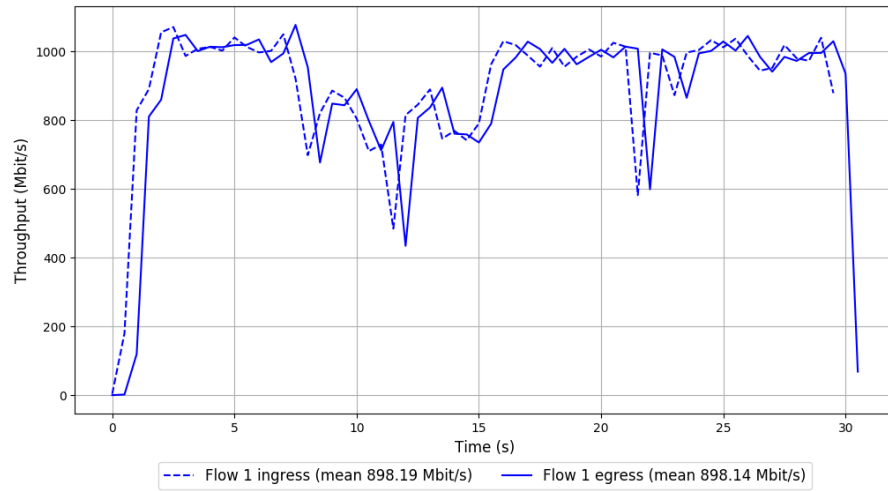
-- Flow 1:

Average throughput: 898.14 Mbit/s

95th percentile per-packet one-way delay: 83.152 ms

Loss rate: 0.01%

Run 3: Report of FillP-Sheep — Data Link

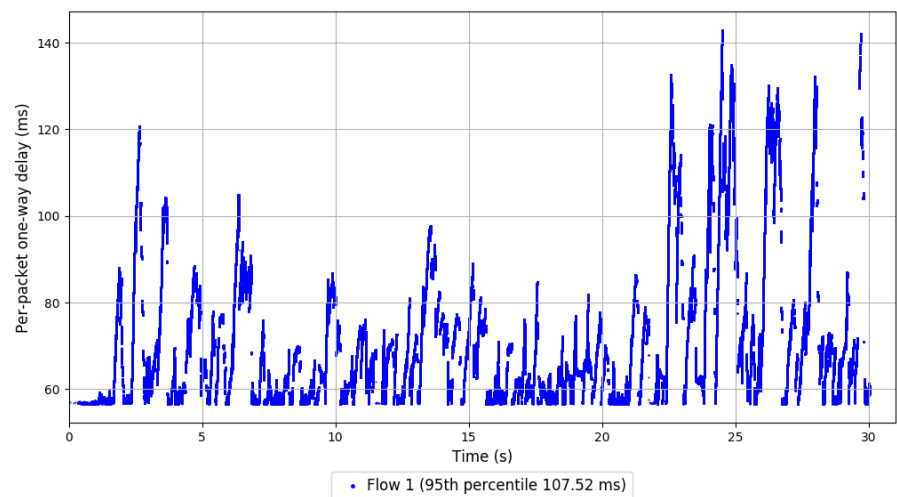
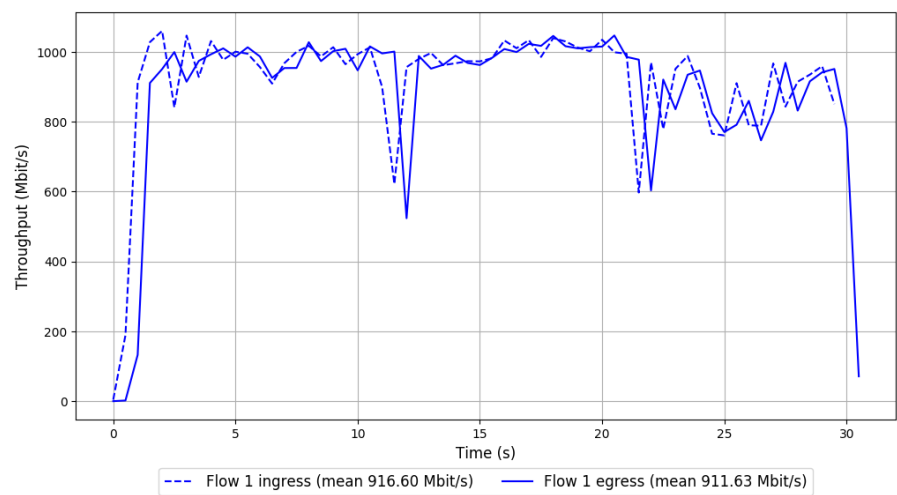


Run 4: Statistics of FillP-Sheep

Start at: 2019-01-18 06:09:34
End at: 2019-01-18 06:10:04
Local clock offset: -0.422 ms
Remote clock offset: -0.816 ms

Below is generated by plot.py at 2019-01-18 08:03:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 911.63 Mbit/s
95th percentile per-packet one-way delay: 107.518 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 911.63 Mbit/s
95th percentile per-packet one-way delay: 107.518 ms
Loss rate: 0.54%

Run 4: Report of FillP-Sheep — Data Link

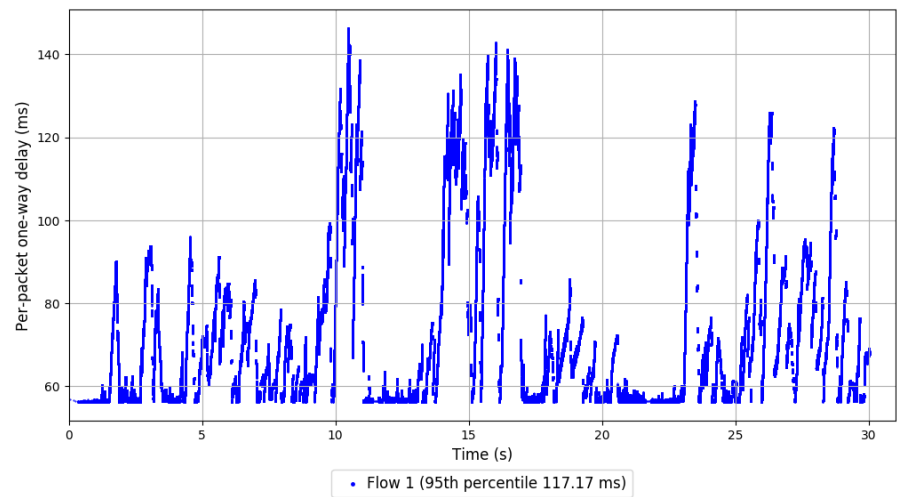
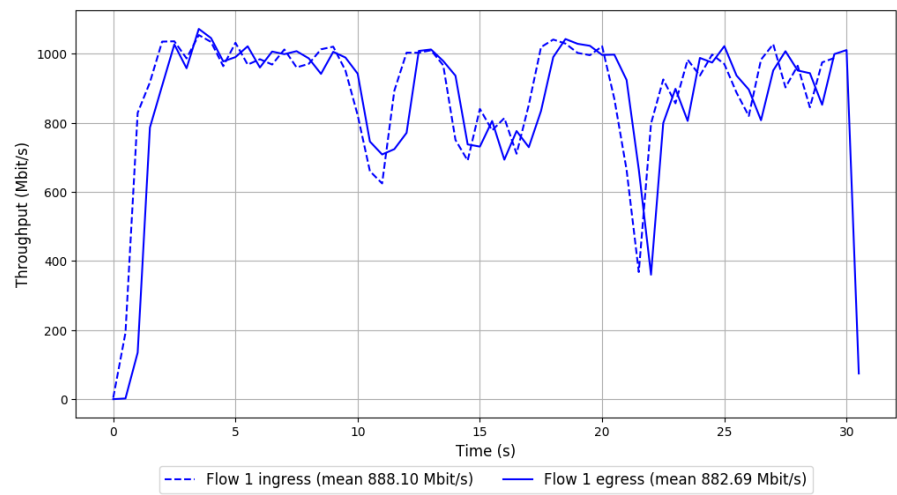


Run 5: Statistics of FillP-Sheep

Start at: 2019-01-18 06:41:38
End at: 2019-01-18 06:42:08
Local clock offset: -0.36 ms
Remote clock offset: -0.854 ms

Below is generated by plot.py at 2019-01-18 08:11:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 882.69 Mbit/s
95th percentile per-packet one-way delay: 117.175 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 882.69 Mbit/s
95th percentile per-packet one-way delay: 117.175 ms
Loss rate: 0.61%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-01-18 04:26:46

End at: 2019-01-18 04:27:17

Local clock offset: -0.15 ms

Remote clock offset: -0.048 ms

Below is generated by plot.py at 2019-01-18 08:11:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.48 Mbit/s

95th percentile per-packet one-way delay: 57.749 ms

Loss rate: 0.00%

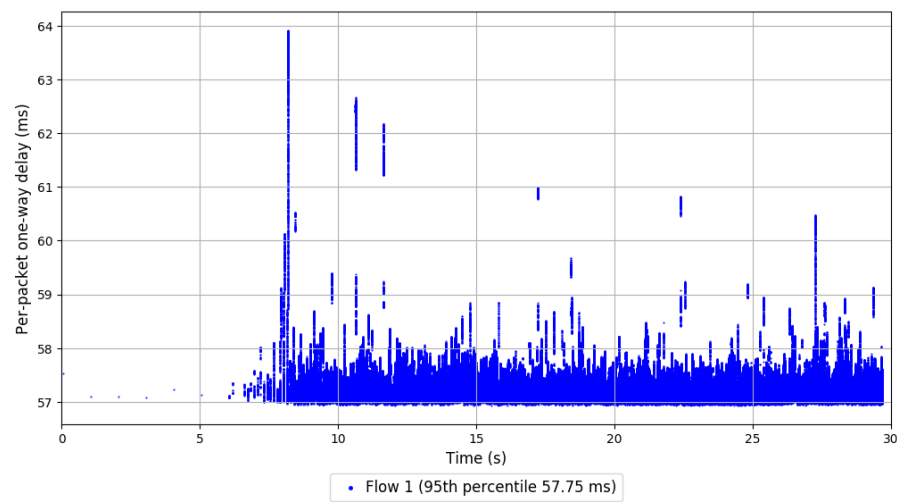
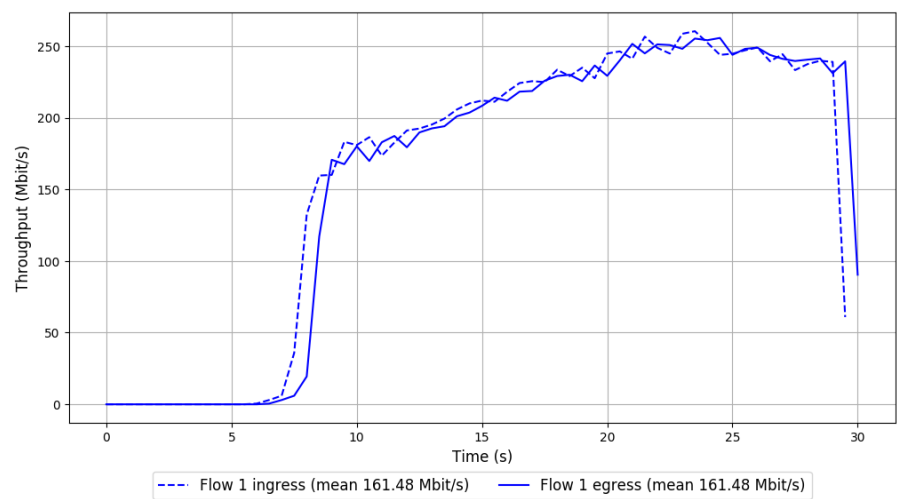
-- Flow 1:

Average throughput: 161.48 Mbit/s

95th percentile per-packet one-way delay: 57.749 ms

Loss rate: 0.00%

Run 1: Report of Indigo — Data Link

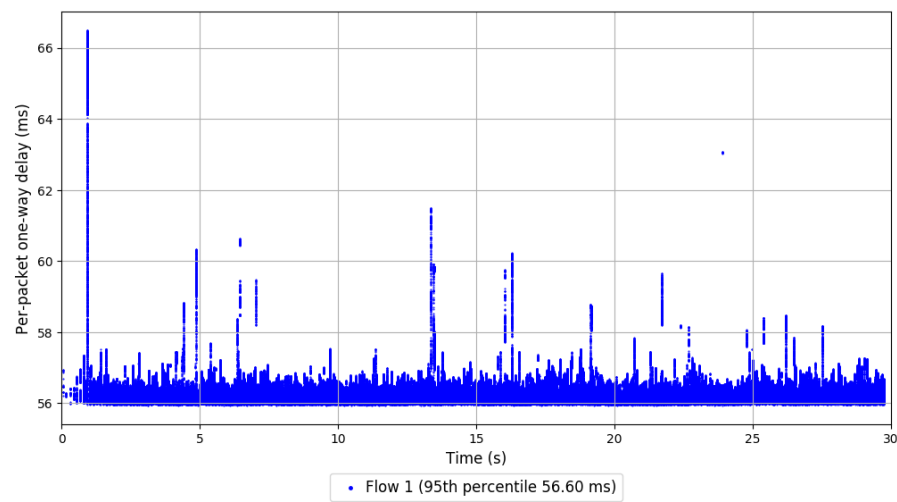
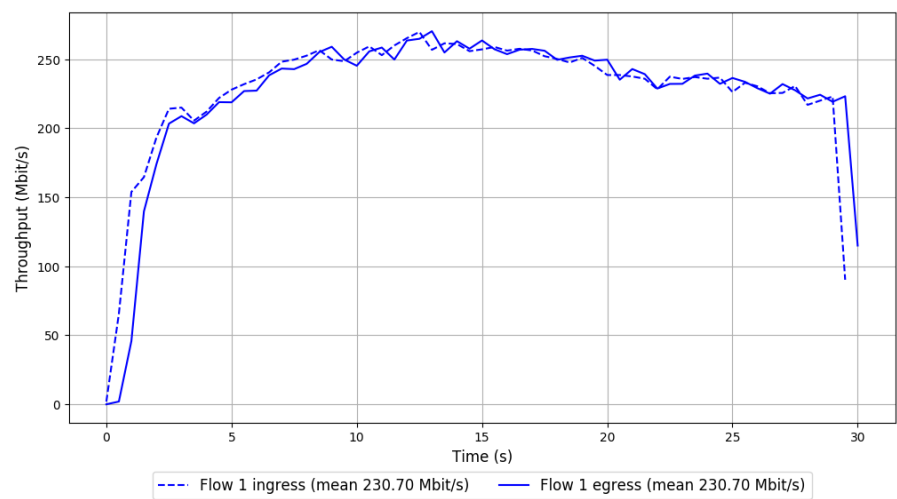


Run 2: Statistics of Indigo

Start at: 2019-01-18 04:58:06
End at: 2019-01-18 04:58:36
Local clock offset: -0.298 ms
Remote clock offset: -1.296 ms

Below is generated by plot.py at 2019-01-18 08:11:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 230.70 Mbit/s
95th percentile per-packet one-way delay: 56.603 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 230.70 Mbit/s
95th percentile per-packet one-way delay: 56.603 ms
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

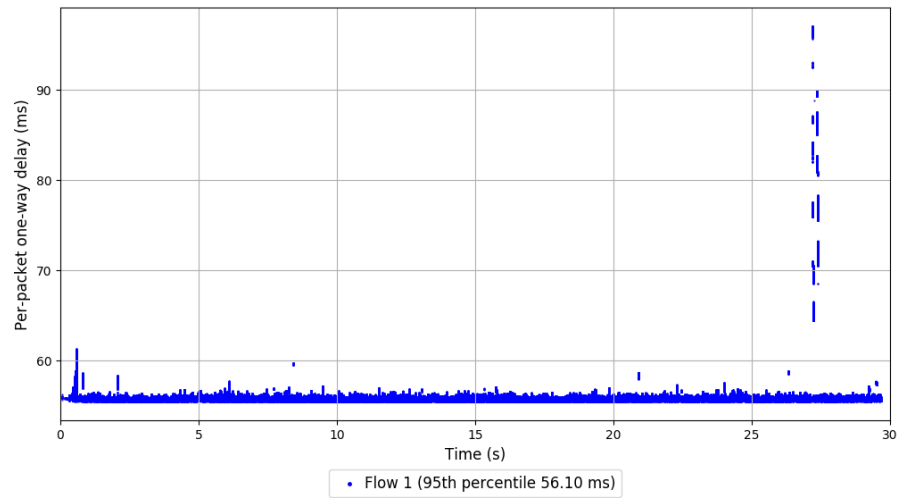
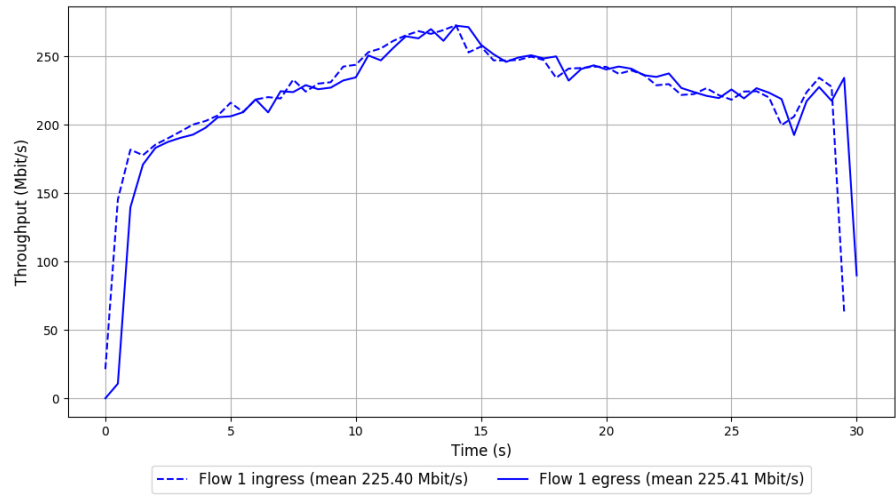


Run 3: Statistics of Indigo

Start at: 2019-01-18 05:30:19
End at: 2019-01-18 05:30:49
Local clock offset: 0.235 ms
Remote clock offset: -1.285 ms

Below is generated by plot.py at 2019-01-18 08:11:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 225.41 Mbit/s
95th percentile per-packet one-way delay: 56.097 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 225.41 Mbit/s
95th percentile per-packet one-way delay: 56.097 ms
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

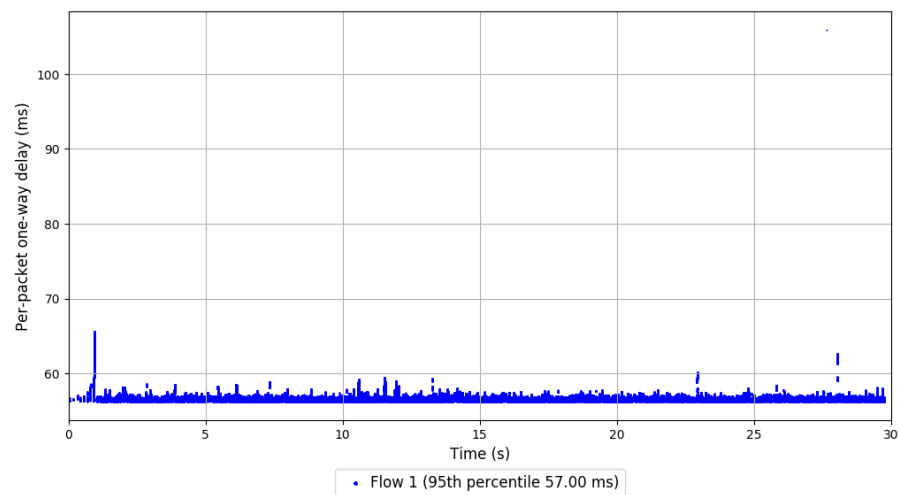
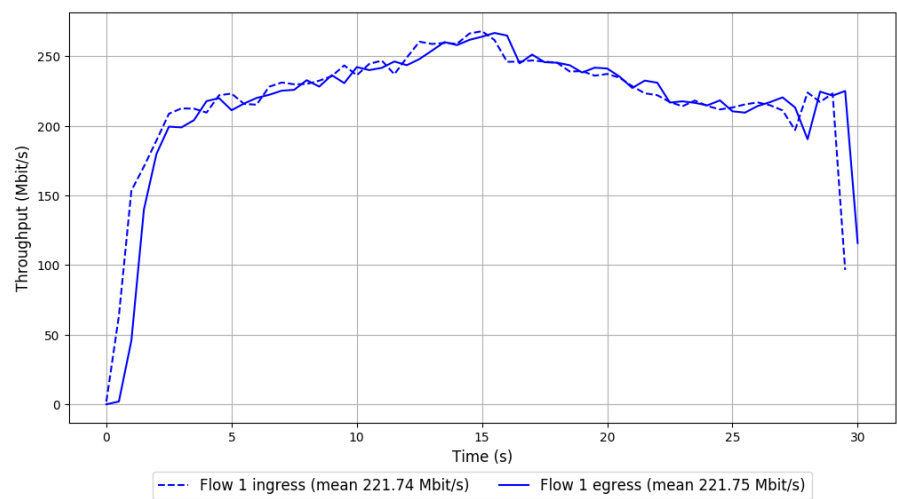


Run 4: Statistics of Indigo

Start at: 2019-01-18 06:03:10
End at: 2019-01-18 06:03:40
Local clock offset: 0.448 ms
Remote clock offset: -0.098 ms

Below is generated by plot.py at 2019-01-18 08:11:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 221.75 Mbit/s
95th percentile per-packet one-way delay: 57.003 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 221.75 Mbit/s
95th percentile per-packet one-way delay: 57.003 ms
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

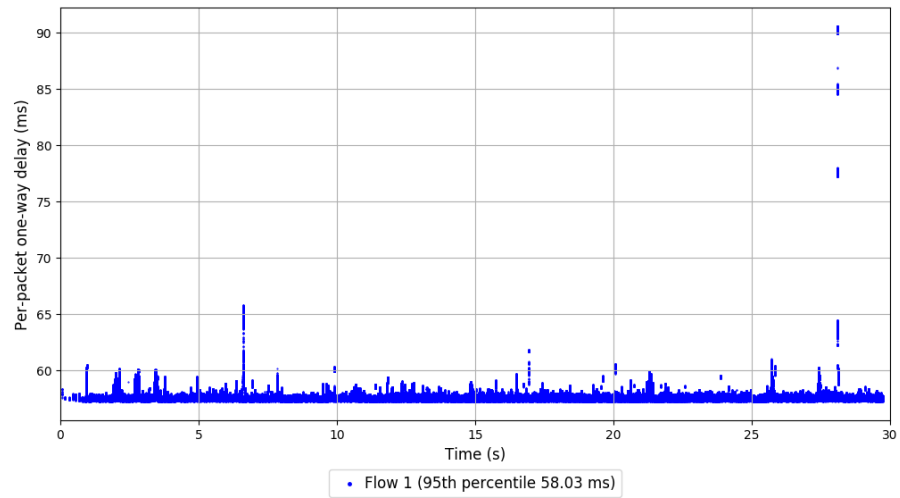
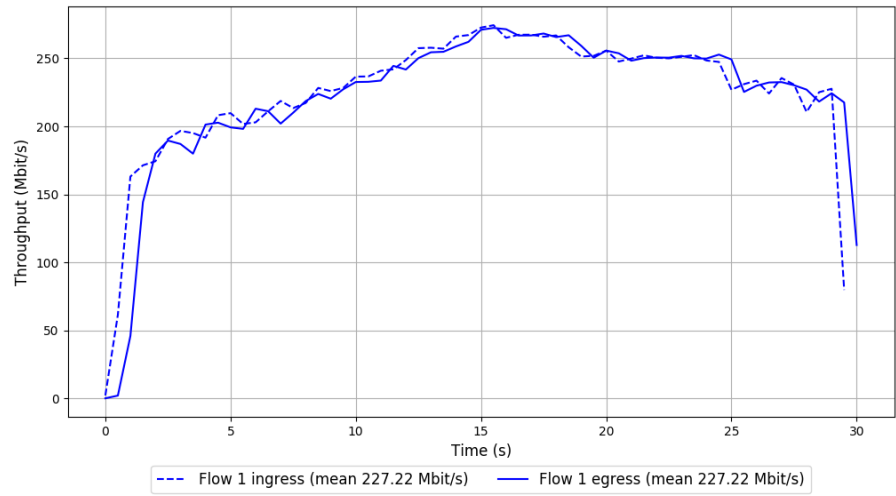


Run 5: Statistics of Indigo

Start at: 2019-01-18 06:35:43
End at: 2019-01-18 06:36:13
Local clock offset: -0.398 ms
Remote clock offset: -0.099 ms

Below is generated by plot.py at 2019-01-18 08:11:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 227.22 Mbit/s
95th percentile per-packet one-way delay: 58.027 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 227.22 Mbit/s
95th percentile per-packet one-way delay: 58.027 ms
Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

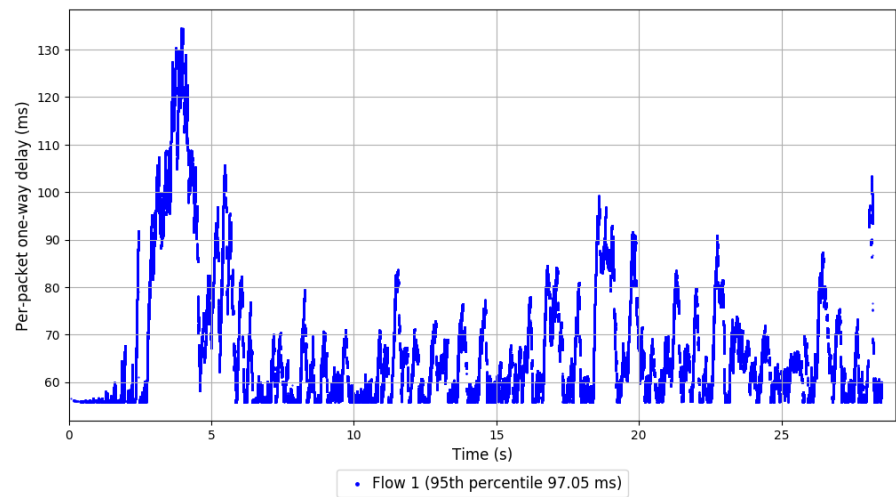
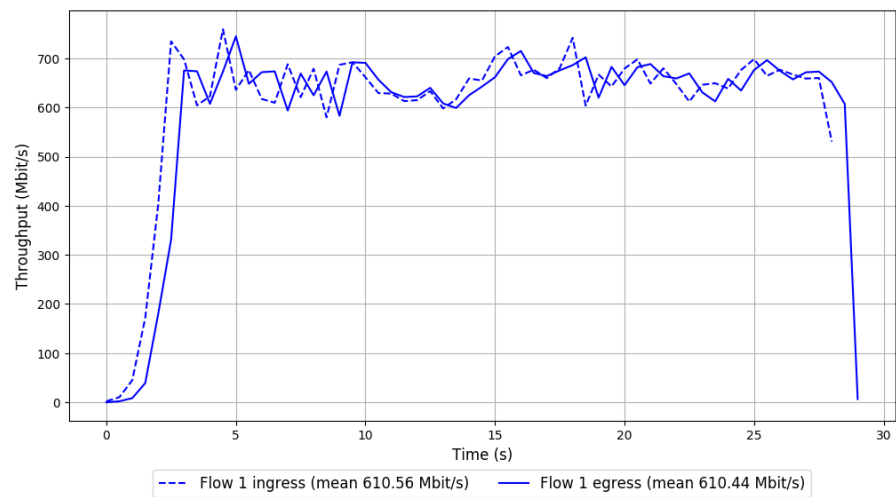


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-01-18 04:48:46
End at: 2019-01-18 04:49:16
Local clock offset: -0.085 ms
Remote clock offset: -1.328 ms

Below is generated by plot.py at 2019-01-18 08:11:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 610.44 Mbit/s
95th percentile per-packet one-way delay: 97.054 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 610.44 Mbit/s
95th percentile per-packet one-way delay: 97.054 ms
Loss rate: 0.02%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-01-18 05:20:43

End at: 2019-01-18 05:21:13

Local clock offset: 0.28 ms

Remote clock offset: 0.028 ms

Below is generated by plot.py at 2019-01-18 08:11:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 615.30 Mbit/s

95th percentile per-packet one-way delay: 87.442 ms

Loss rate: 0.02%

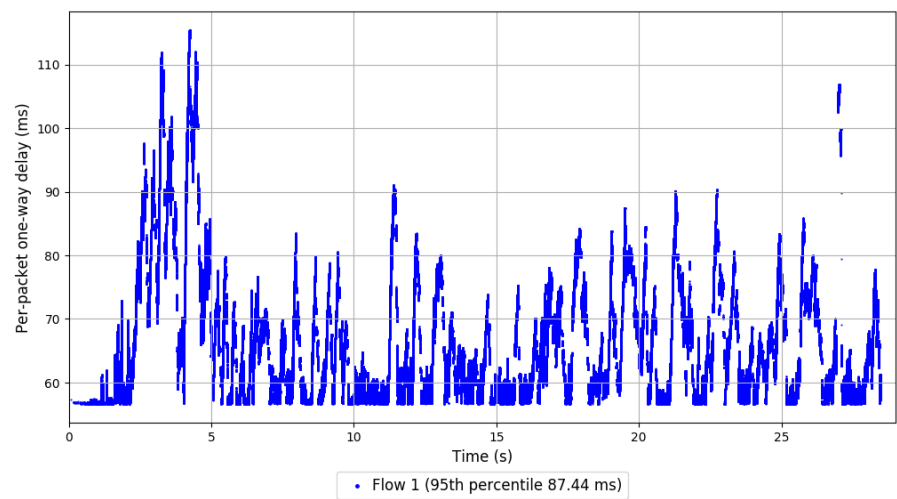
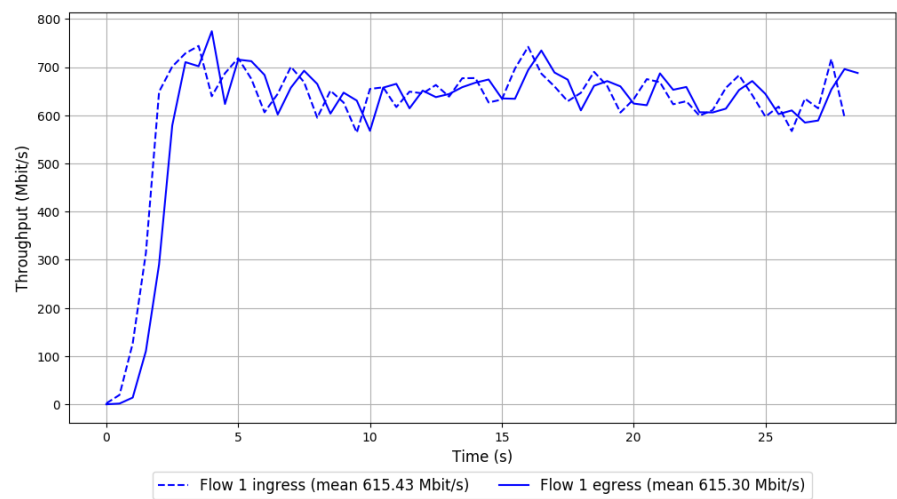
-- Flow 1:

Average throughput: 615.30 Mbit/s

95th percentile per-packet one-way delay: 87.442 ms

Loss rate: 0.02%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-01-18 05:53:03

End at: 2019-01-18 05:53:33

Local clock offset: -0.142 ms

Remote clock offset: 0.288 ms

Below is generated by plot.py at 2019-01-18 08:11:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 622.53 Mbit/s

95th percentile per-packet one-way delay: 97.825 ms

Loss rate: 0.13%

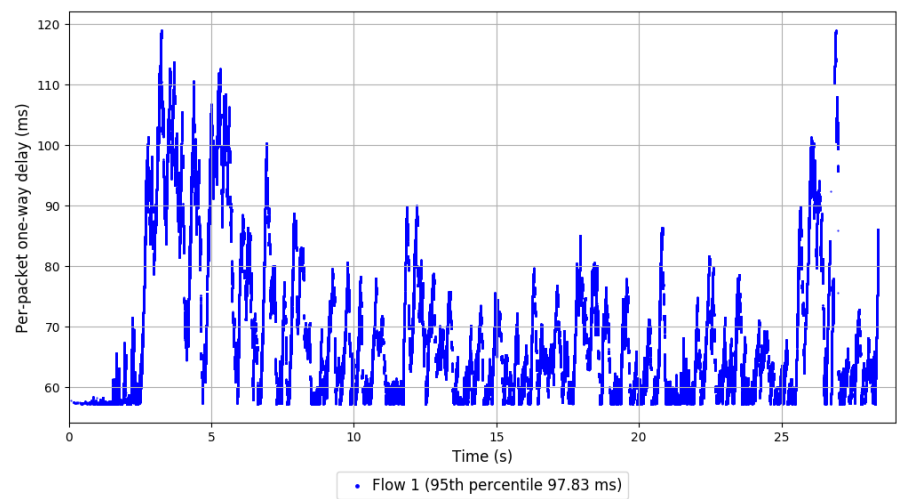
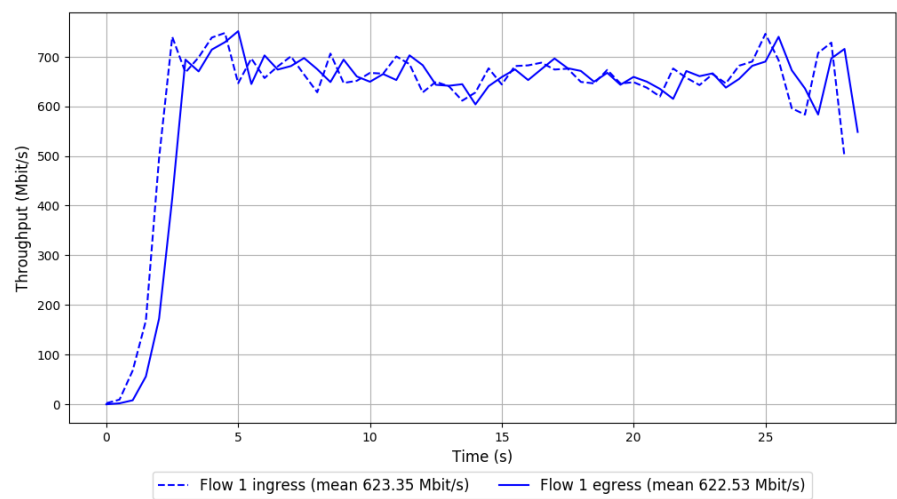
-- Flow 1:

Average throughput: 622.53 Mbit/s

95th percentile per-packet one-way delay: 97.825 ms

Loss rate: 0.13%

Run 3: Report of Indigo-MusesC3 — Data Link

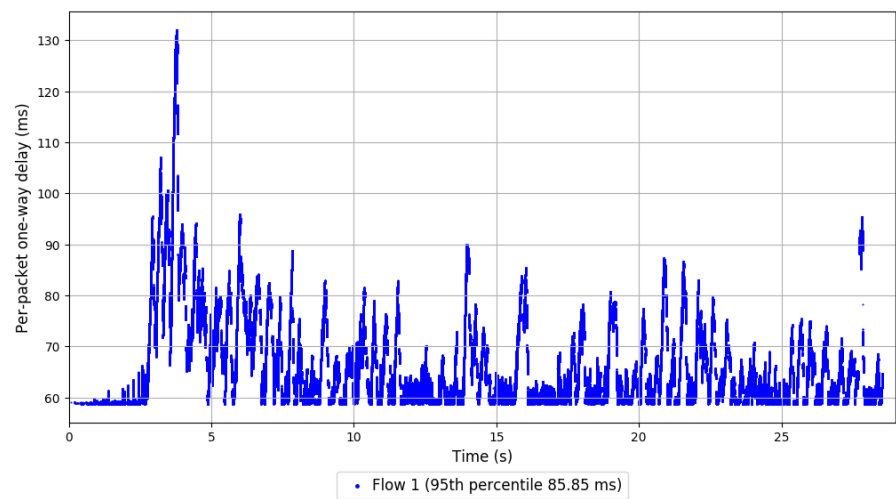
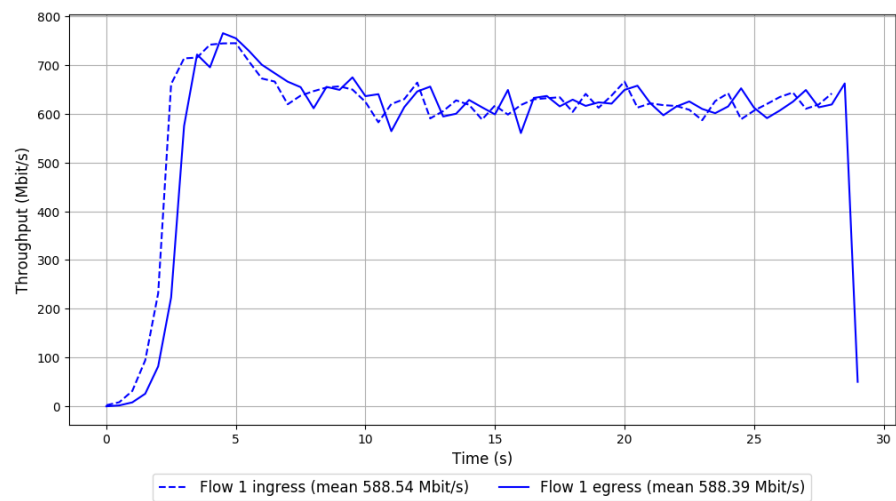


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-01-18 06:26:25
End at: 2019-01-18 06:26:55
Local clock offset: 0.073 ms
Remote clock offset: -1.424 ms

Below is generated by plot.py at 2019-01-18 08:11:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 588.39 Mbit/s
95th percentile per-packet one-way delay: 85.850 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 588.39 Mbit/s
95th percentile per-packet one-way delay: 85.850 ms
Loss rate: 0.04%

Run 4: Report of Indigo-MusesC3 — Data Link

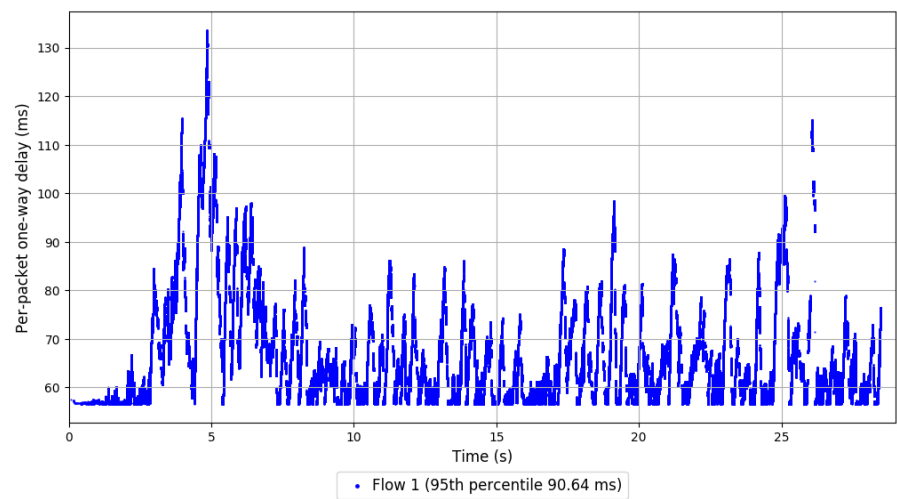
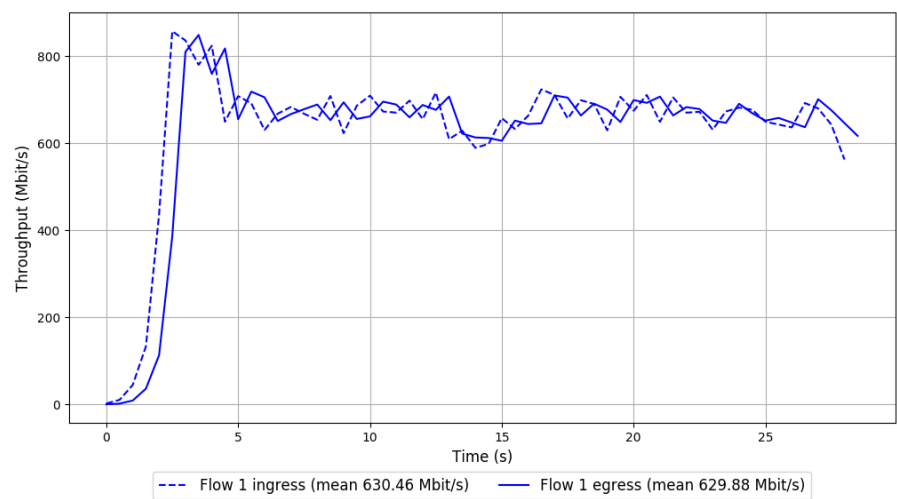


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-01-18 06:57:31
End at: 2019-01-18 06:58:01
Local clock offset: 0.346 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2019-01-18 08:11:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 629.88 Mbit/s
95th percentile per-packet one-way delay: 90.635 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 629.88 Mbit/s
95th percentile per-packet one-way delay: 90.635 ms
Loss rate: 0.09%

Run 5: Report of Indigo-MusesC3 — Data Link

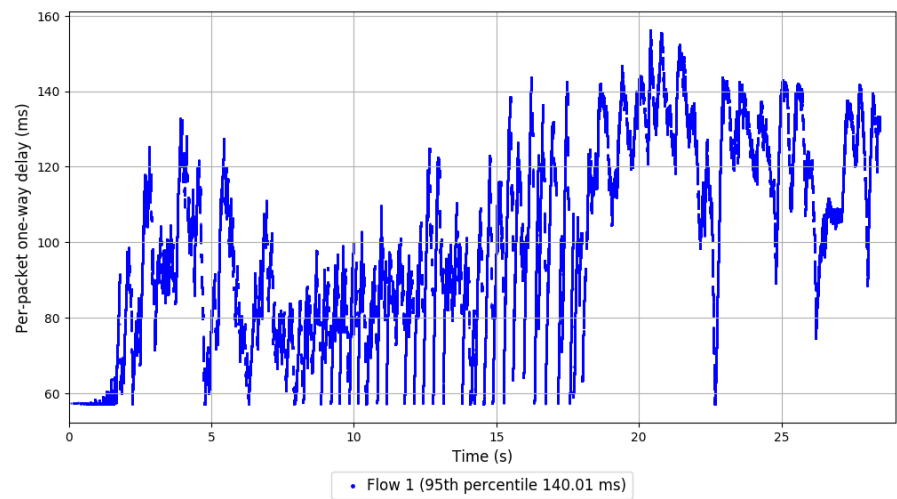
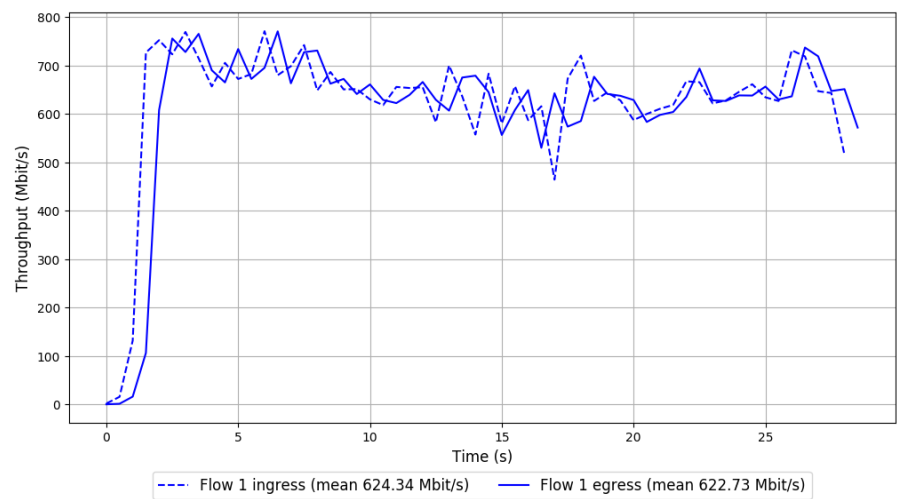


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-01-18 04:41:06
End at: 2019-01-18 04:41:36
Local clock offset: -0.12 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2019-01-18 08:11:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 622.73 Mbit/s
95th percentile per-packet one-way delay: 140.014 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 622.73 Mbit/s
95th percentile per-packet one-way delay: 140.014 ms
Loss rate: 0.26%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-01-18 05:12:55

End at: 2019-01-18 05:13:25

Local clock offset: -0.394 ms

Remote clock offset: 1.326 ms

Below is generated by plot.py at 2019-01-18 08:14:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 600.33 Mbit/s

95th percentile per-packet one-way delay: 140.116 ms

Loss rate: 0.20%

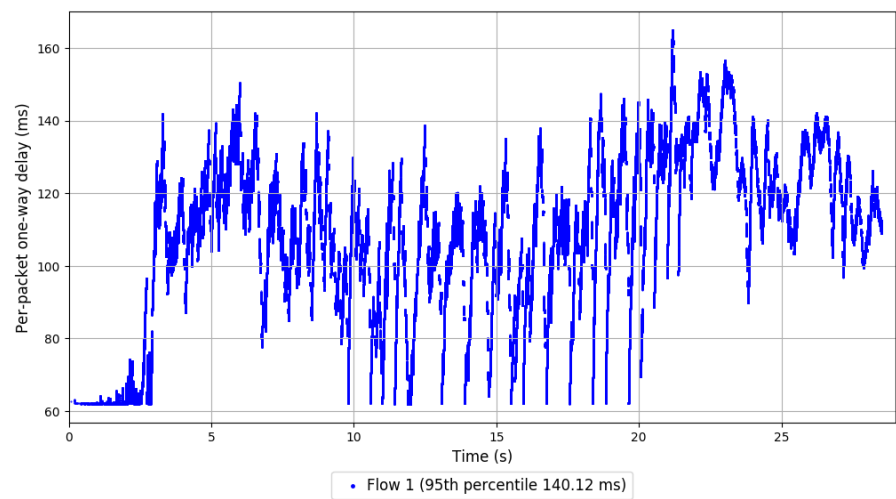
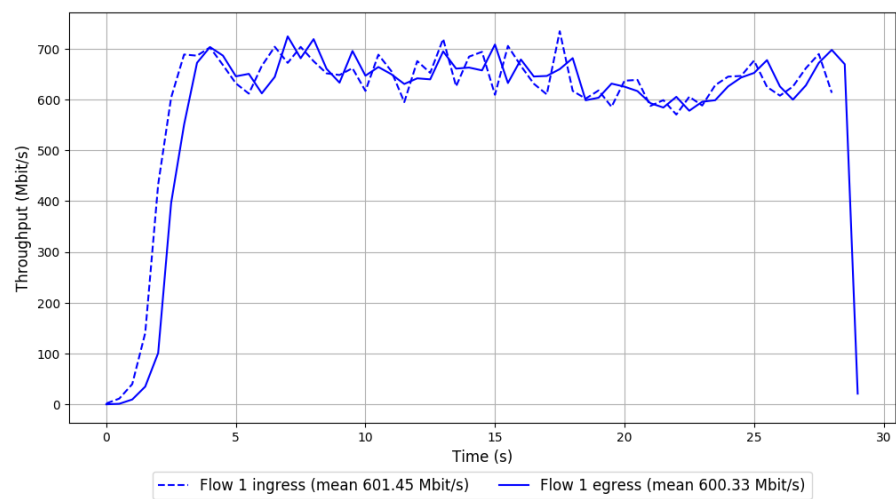
-- Flow 1:

Average throughput: 600.33 Mbit/s

95th percentile per-packet one-way delay: 140.116 ms

Loss rate: 0.20%

Run 2: Report of Indigo-MusesC5 — Data Link

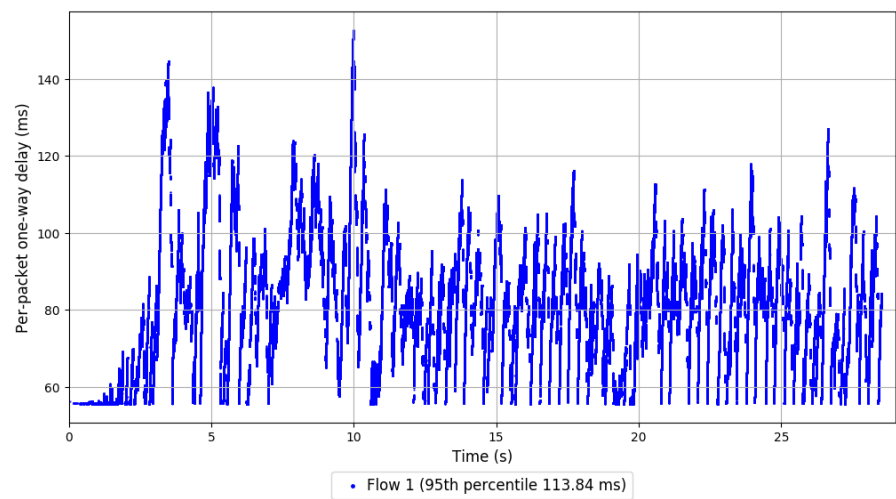
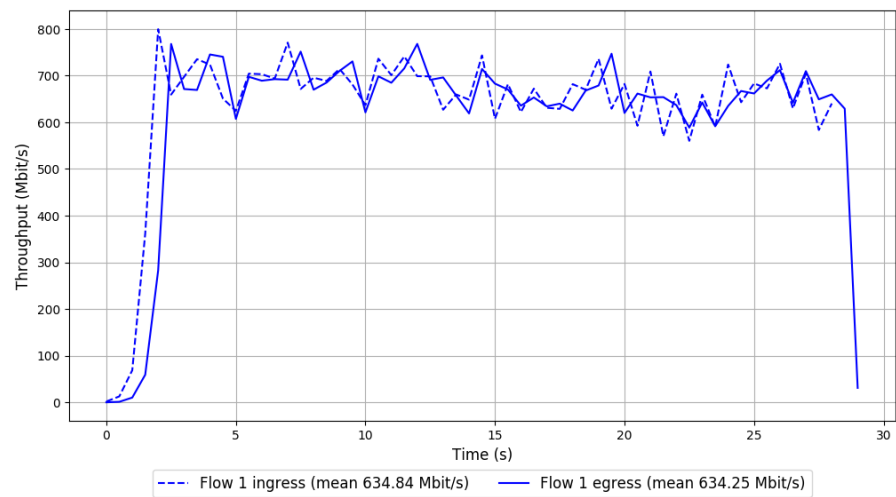


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-01-18 05:44:49
End at: 2019-01-18 05:45:20
Local clock offset: -0.043 ms
Remote clock offset: -1.306 ms

Below is generated by plot.py at 2019-01-18 08:15:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 634.25 Mbit/s
95th percentile per-packet one-way delay: 113.840 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 634.25 Mbit/s
95th percentile per-packet one-way delay: 113.840 ms
Loss rate: 0.09%

Run 3: Report of Indigo-MusesC5 — Data Link

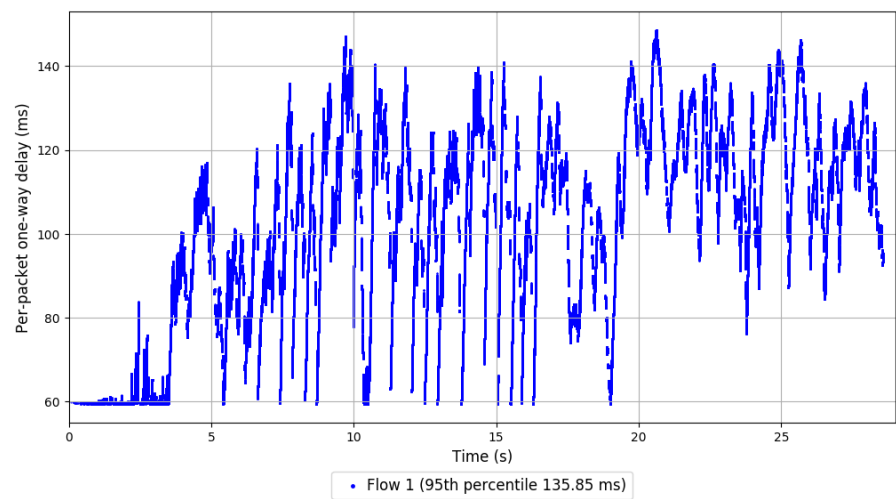
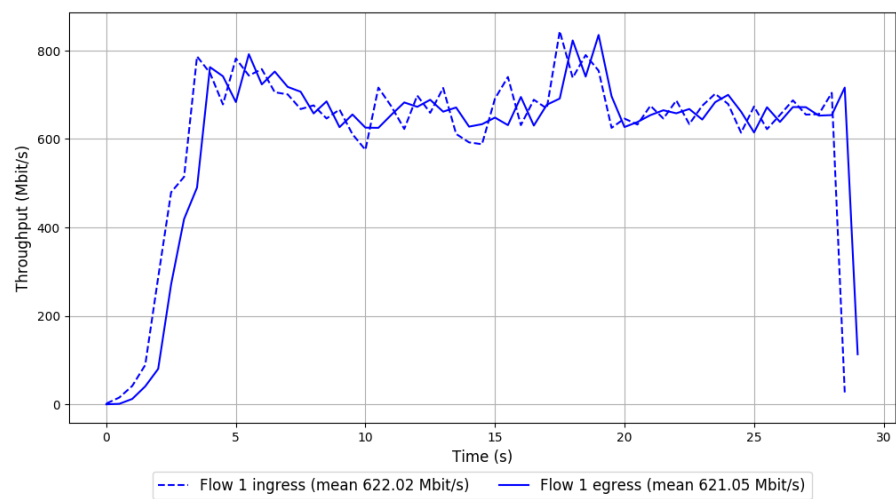


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-01-18 06:18:23
End at: 2019-01-18 06:18:53
Local clock offset: 0.223 ms
Remote clock offset: -0.749 ms

Below is generated by plot.py at 2019-01-18 08:20:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 621.05 Mbit/s
95th percentile per-packet one-way delay: 135.851 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 621.05 Mbit/s
95th percentile per-packet one-way delay: 135.851 ms
Loss rate: 0.17%

Run 4: Report of Indigo-MusesC5 — Data Link

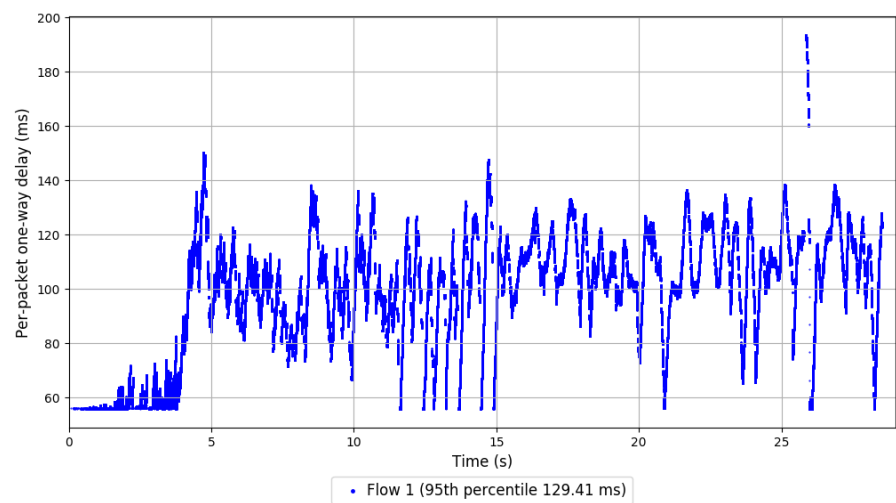
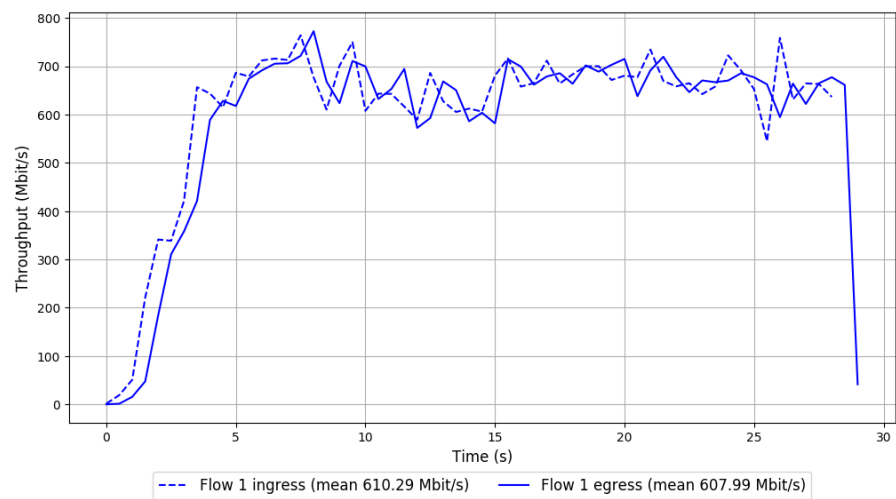


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-01-18 06:50:04
End at: 2019-01-18 06:50:34
Local clock offset: -0.004 ms
Remote clock offset: -1.351 ms

Below is generated by plot.py at 2019-01-18 08:22:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 607.99 Mbit/s
95th percentile per-packet one-way delay: 129.405 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 607.99 Mbit/s
95th percentile per-packet one-way delay: 129.405 ms
Loss rate: 0.38%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-01-18 04:44:28

End at: 2019-01-18 04:44:58

Local clock offset: -0.536 ms

Remote clock offset: -0.0 ms

Below is generated by plot.py at 2019-01-18 08:22:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 342.50 Mbit/s

95th percentile per-packet one-way delay: 79.699 ms

Loss rate: 0.02%

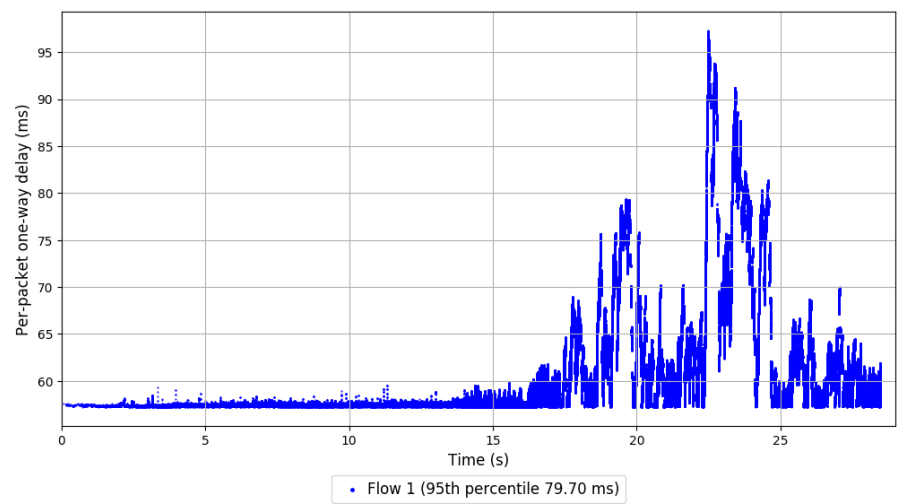
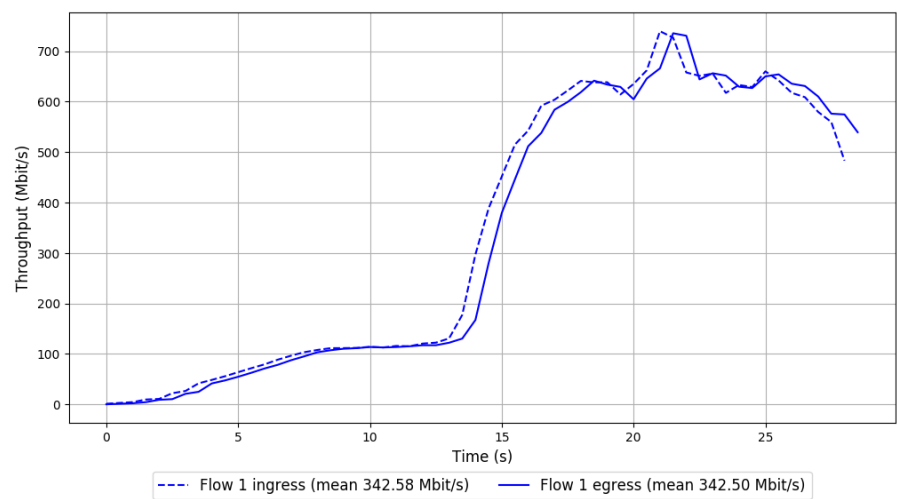
-- Flow 1:

Average throughput: 342.50 Mbit/s

95th percentile per-packet one-way delay: 79.699 ms

Loss rate: 0.02%

Run 1: Report of Indigo-MusesD — Data Link

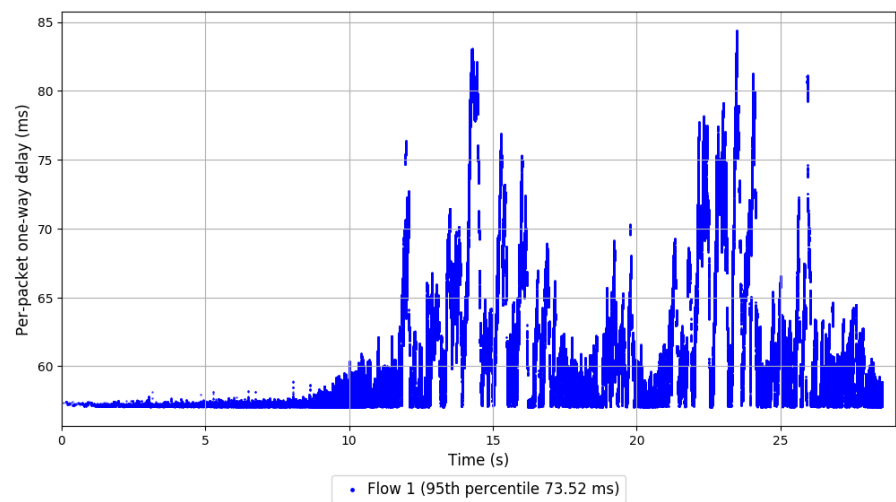
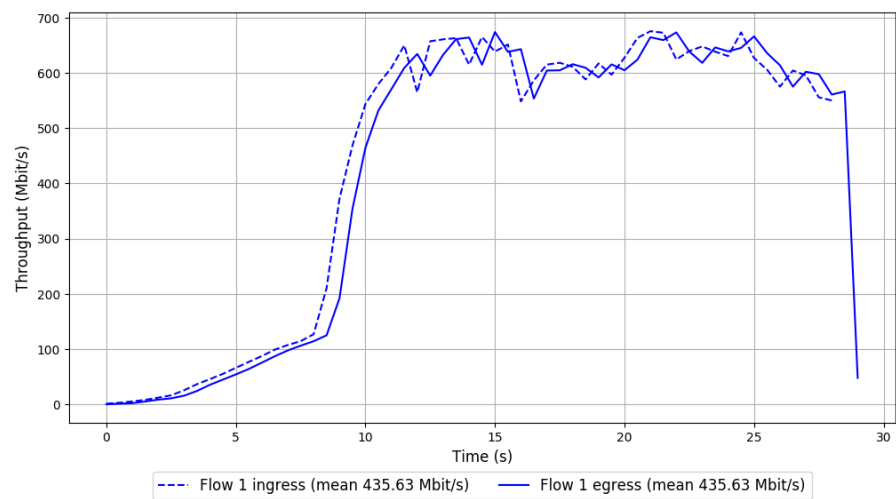


Run 2: Statistics of Indigo-MusesD

Start at: 2019-01-18 05:16:15
End at: 2019-01-18 05:16:45
Local clock offset: -0.083 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2019-01-18 08:22:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 435.63 Mbit/s
95th percentile per-packet one-way delay: 73.516 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 435.63 Mbit/s
95th percentile per-packet one-way delay: 73.516 ms
Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-01-18 05:48:27

End at: 2019-01-18 05:48:57

Local clock offset: 0.044 ms

Remote clock offset: 0.213 ms

Below is generated by plot.py at 2019-01-18 08:22:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 355.33 Mbit/s

95th percentile per-packet one-way delay: 86.444 ms

Loss rate: 0.05%

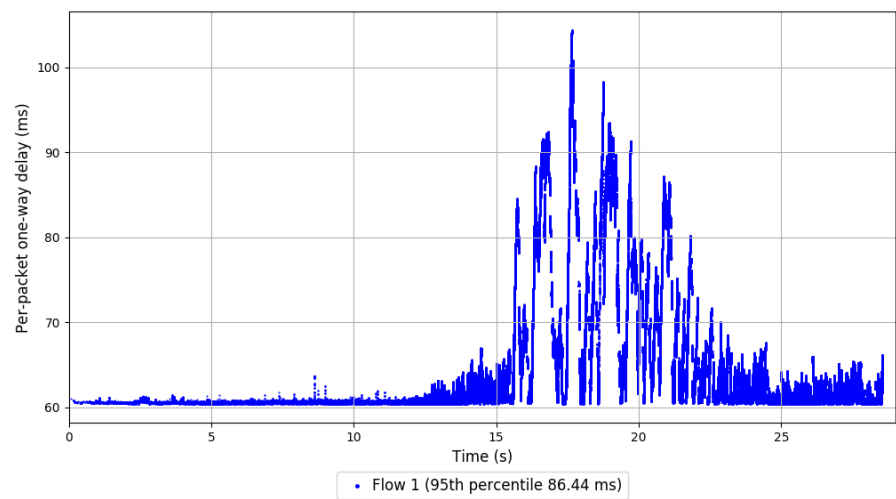
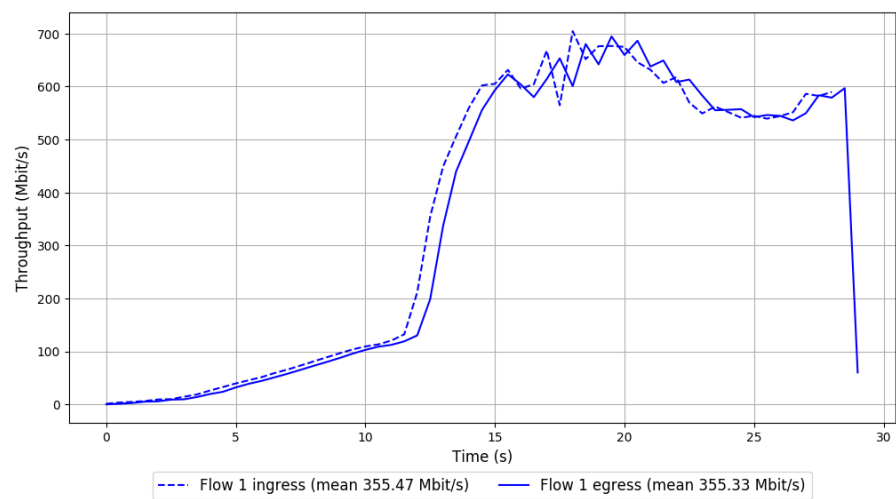
-- Flow 1:

Average throughput: 355.33 Mbit/s

95th percentile per-packet one-way delay: 86.444 ms

Loss rate: 0.05%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-01-18 06:21:53

End at: 2019-01-18 06:22:23

Local clock offset: 0.213 ms

Remote clock offset: -0.766 ms

Below is generated by plot.py at 2019-01-18 08:22:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 332.55 Mbit/s

95th percentile per-packet one-way delay: 79.424 ms

Loss rate: 0.00%

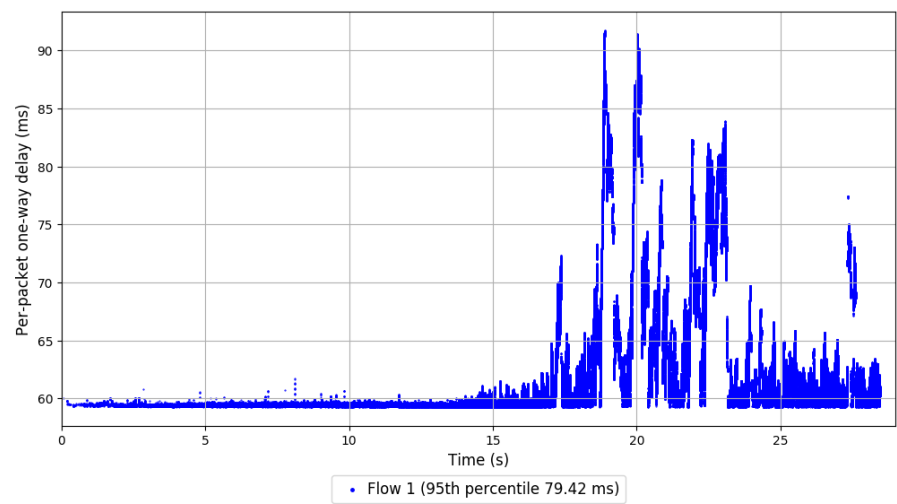
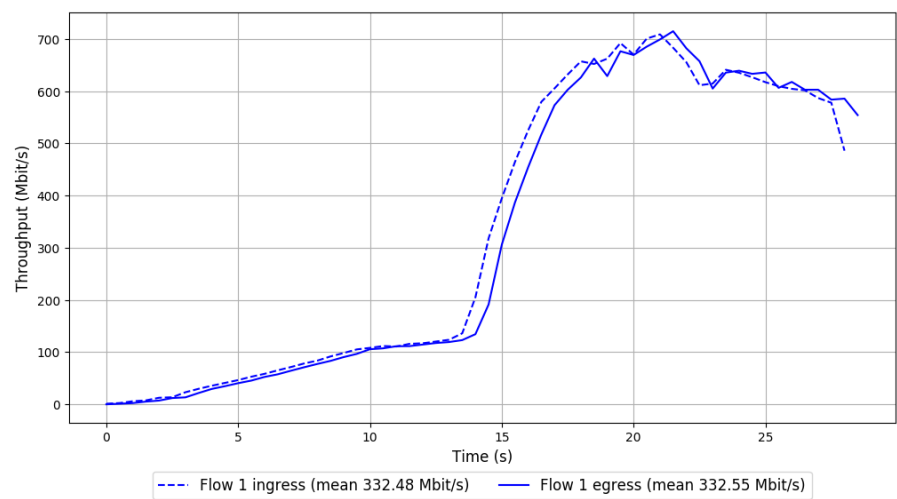
-- Flow 1:

Average throughput: 332.55 Mbit/s

95th percentile per-packet one-way delay: 79.424 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-01-18 06:53:14

End at: 2019-01-18 06:53:44

Local clock offset: -0.13 ms

Remote clock offset: -0.134 ms

Below is generated by plot.py at 2019-01-18 08:23:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 433.13 Mbit/s

95th percentile per-packet one-way delay: 77.760 ms

Loss rate: 0.00%

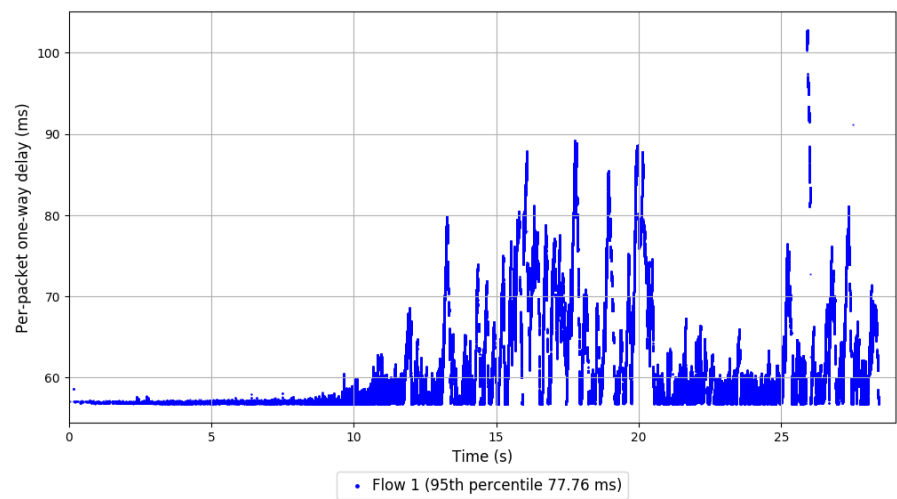
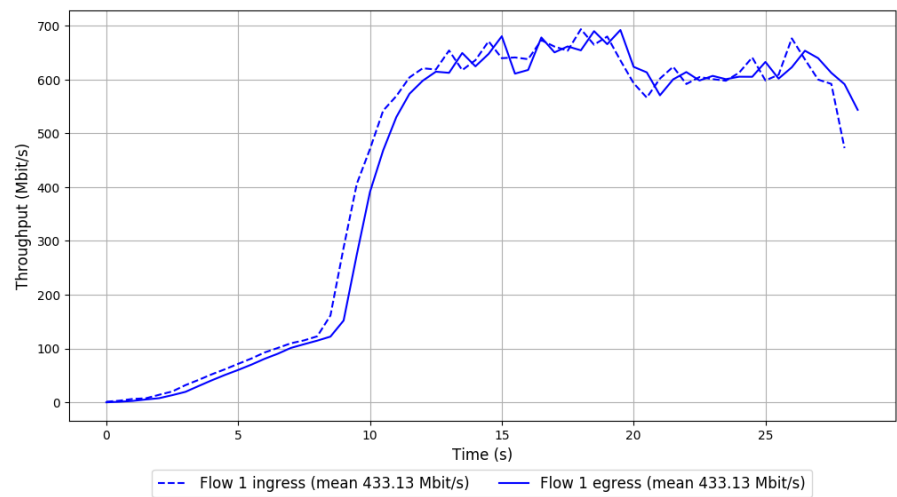
-- Flow 1:

Average throughput: 433.13 Mbit/s

95th percentile per-packet one-way delay: 77.760 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-01-18 04:38:20

End at: 2019-01-18 04:38:50

Local clock offset: -0.559 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2019-01-18 08:28:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 645.67 Mbit/s

95th percentile per-packet one-way delay: 141.256 ms

Loss rate: 0.26%

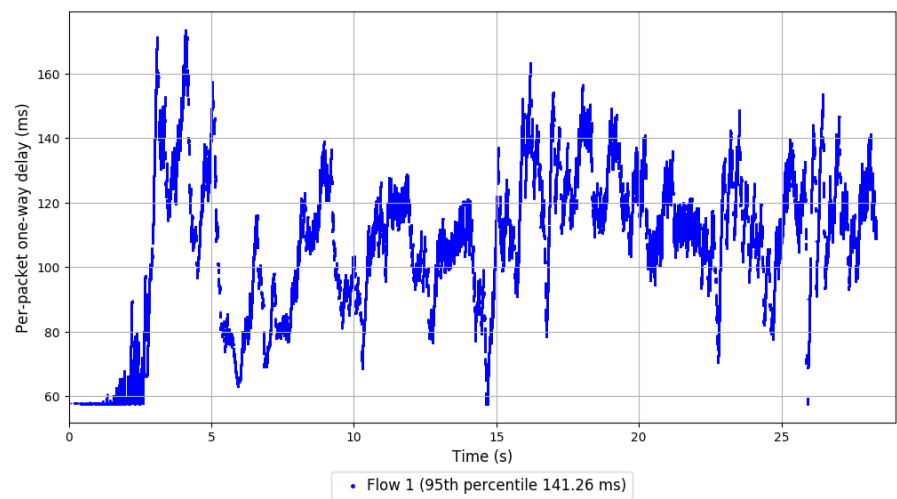
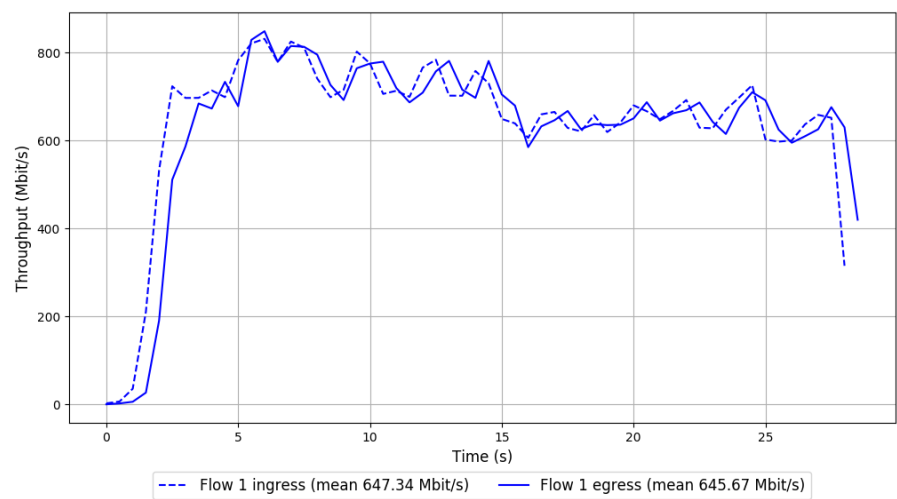
-- Flow 1:

Average throughput: 645.67 Mbit/s

95th percentile per-packet one-way delay: 141.256 ms

Loss rate: 0.26%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-01-18 05:10:06

End at: 2019-01-18 05:10:36

Local clock offset: 0.102 ms

Remote clock offset: -1.309 ms

Below is generated by plot.py at 2019-01-18 08:30:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 633.69 Mbit/s

95th percentile per-packet one-way delay: 139.179 ms

Loss rate: 0.20%

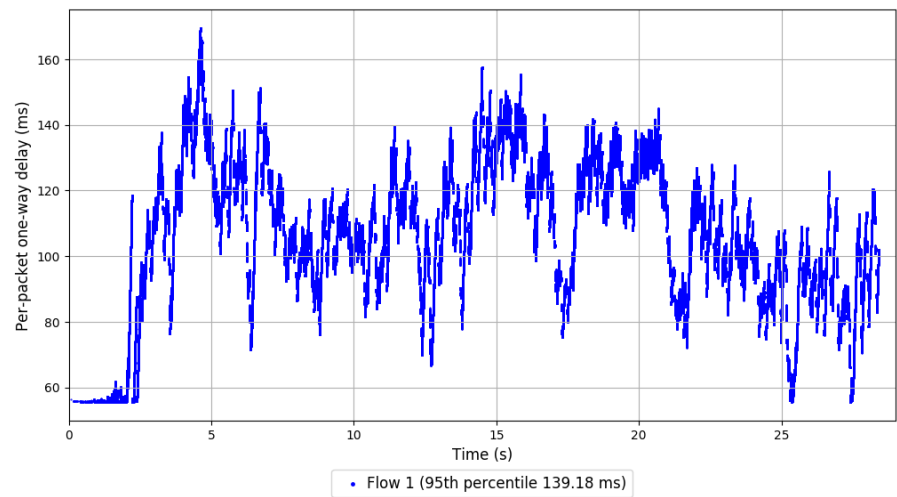
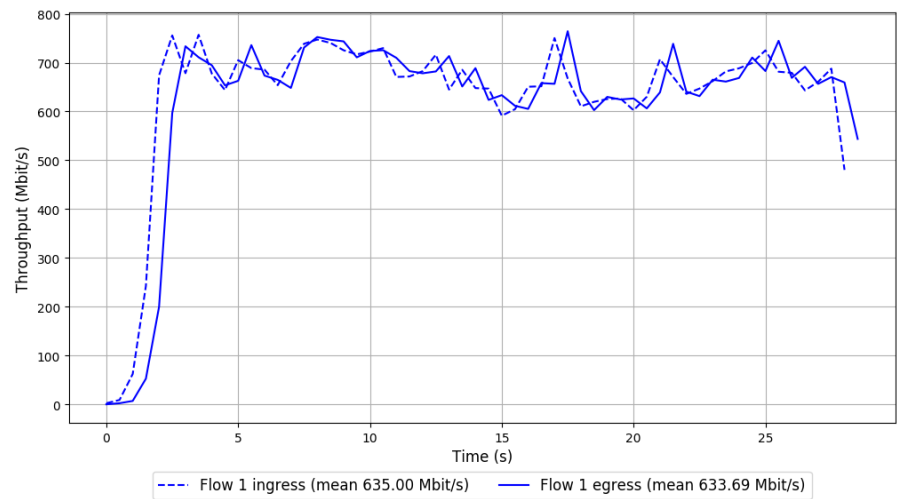
-- Flow 1:

Average throughput: 633.69 Mbit/s

95th percentile per-packet one-way delay: 139.179 ms

Loss rate: 0.20%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-01-18 05:41:49

End at: 2019-01-18 05:42:19

Local clock offset: -0.141 ms

Remote clock offset: 0.649 ms

Below is generated by plot.py at 2019-01-18 08:30:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 661.39 Mbit/s

95th percentile per-packet one-way delay: 139.942 ms

Loss rate: 0.29%

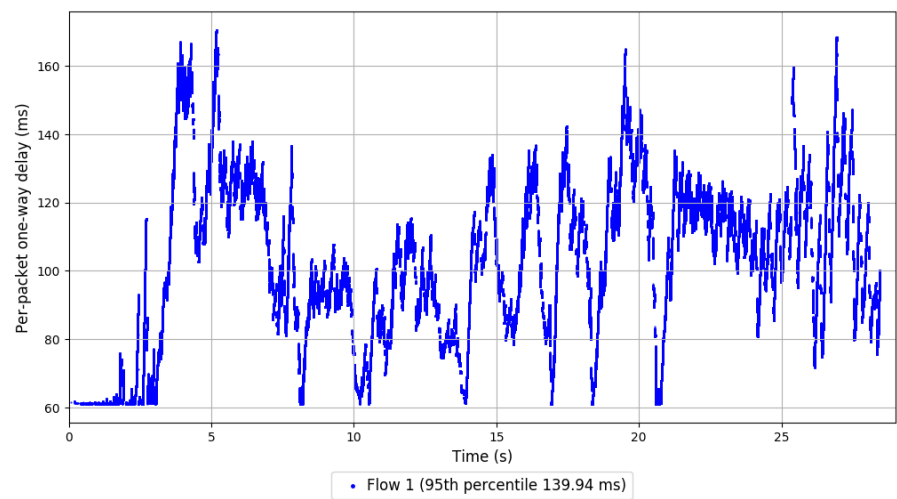
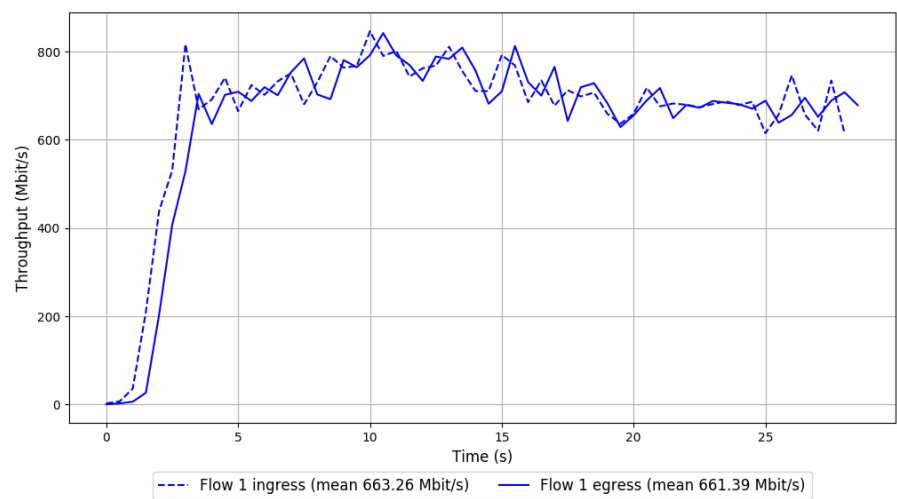
-- Flow 1:

Average throughput: 661.39 Mbit/s

95th percentile per-packet one-way delay: 139.942 ms

Loss rate: 0.29%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-01-18 06:15:30

End at: 2019-01-18 06:16:00

Local clock offset: -0.113 ms

Remote clock offset: 0.489 ms

Below is generated by plot.py at 2019-01-18 08:30:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 632.63 Mbit/s

95th percentile per-packet one-way delay: 150.995 ms

Loss rate: 0.53%

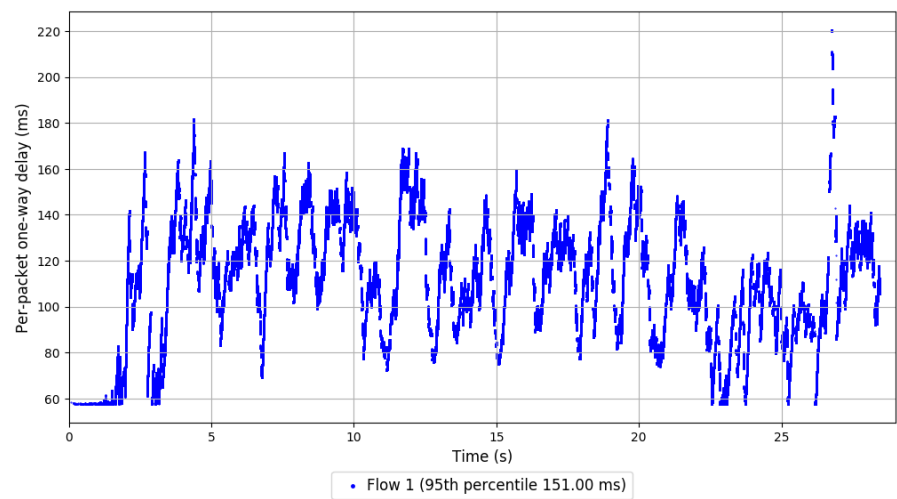
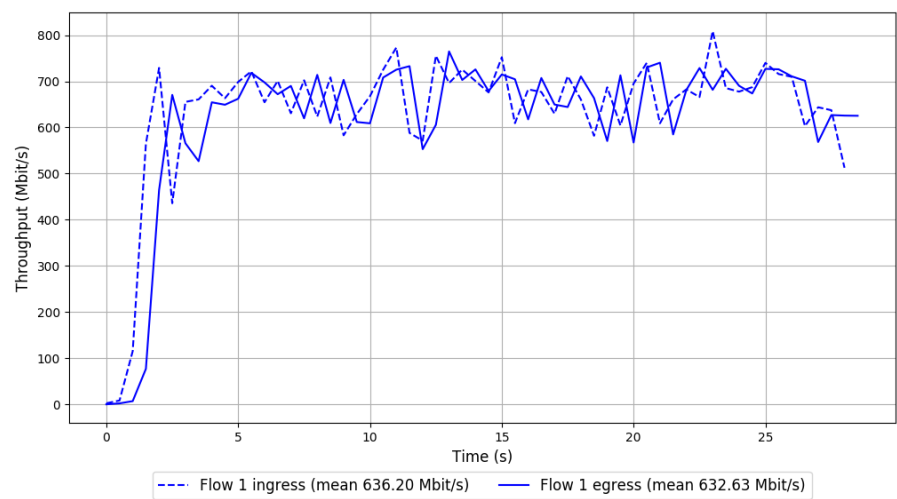
-- Flow 1:

Average throughput: 632.63 Mbit/s

95th percentile per-packet one-way delay: 150.995 ms

Loss rate: 0.53%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-01-18 06:47:17

End at: 2019-01-18 06:47:47

Local clock offset: 0.187 ms

Remote clock offset: -0.114 ms

Below is generated by plot.py at 2019-01-18 08:31:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 681.23 Mbit/s

95th percentile per-packet one-way delay: 132.739 ms

Loss rate: 0.13%

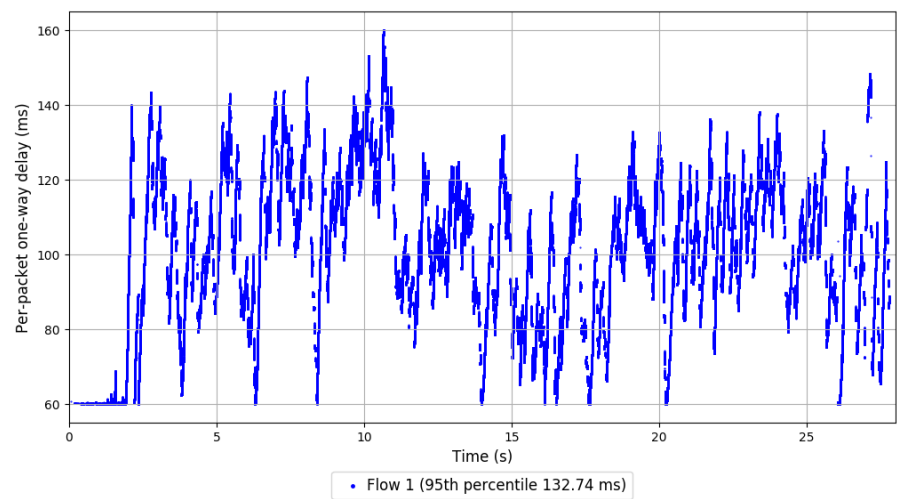
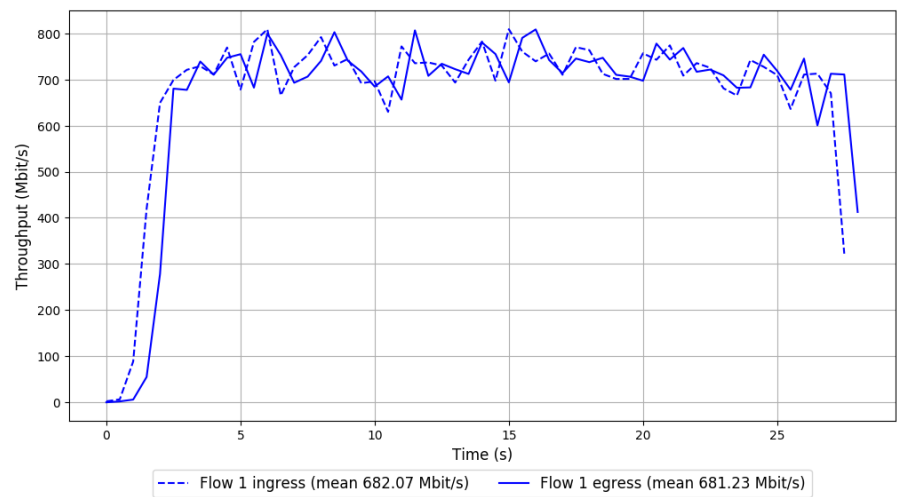
-- Flow 1:

Average throughput: 681.23 Mbit/s

95th percentile per-packet one-way delay: 132.739 ms

Loss rate: 0.13%

Run 5: Report of Indigo-MusesT — Data Link

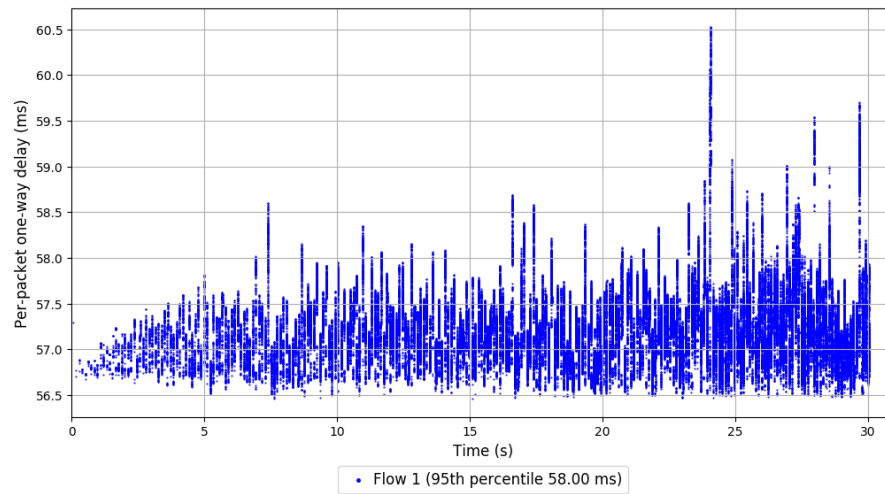
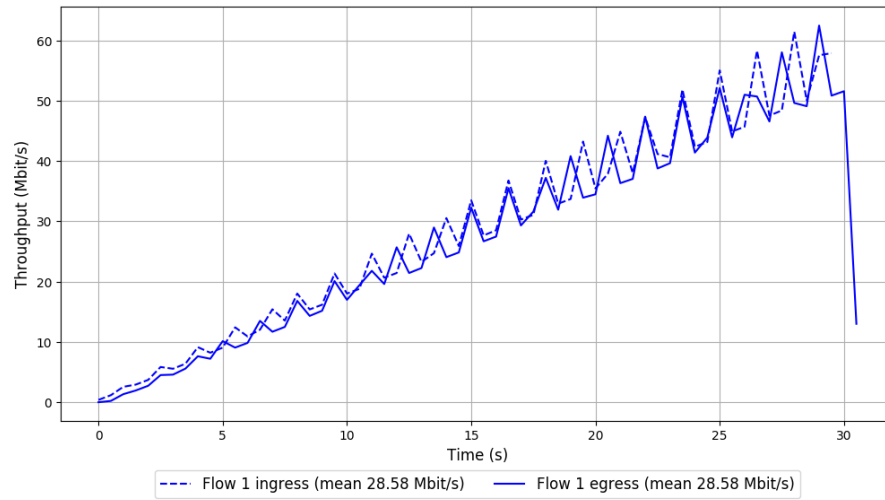


Run 1: Statistics of LEDBAT

Start at: 2019-01-18 04:37:09
End at: 2019-01-18 04:37:39
Local clock offset: 0.088 ms
Remote clock offset: -0.042 ms

Below is generated by plot.py at 2019-01-18 08:31:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 28.58 Mbit/s
95th percentile per-packet one-way delay: 58.004 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.58 Mbit/s
95th percentile per-packet one-way delay: 58.004 ms
Loss rate: 0.00%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-01-18 05:08:55

End at: 2019-01-18 05:09:25

Local clock offset: -0.324 ms

Remote clock offset: 1.267 ms

Below is generated by plot.py at 2019-01-18 08:31:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.88 Mbit/s

95th percentile per-packet one-way delay: 63.478 ms

Loss rate: 0.00%

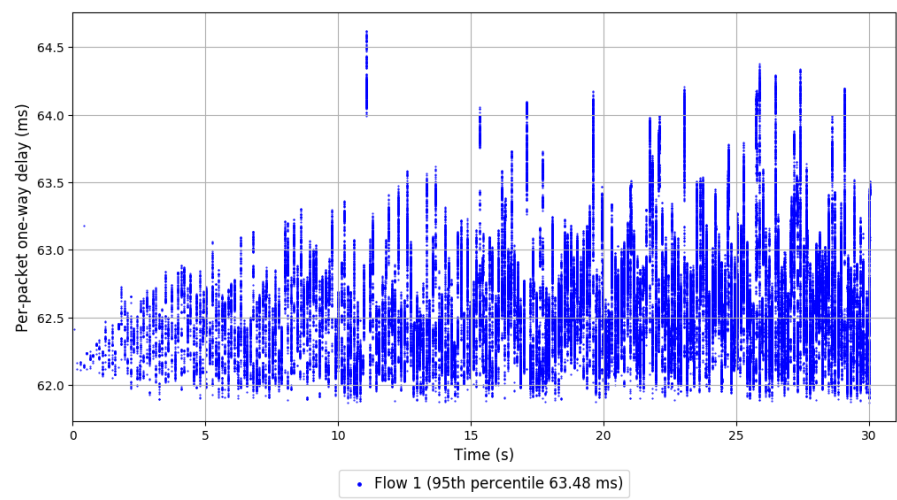
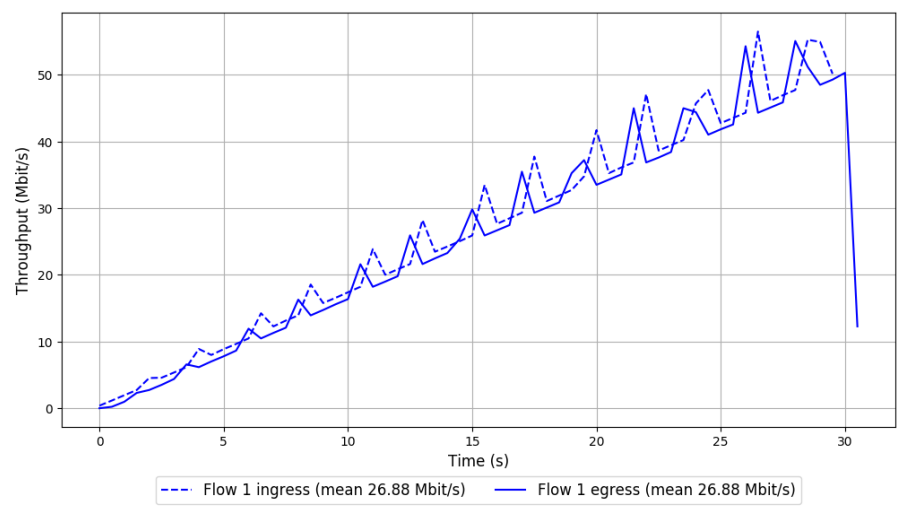
-- Flow 1:

Average throughput: 26.88 Mbit/s

95th percentile per-packet one-way delay: 63.478 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

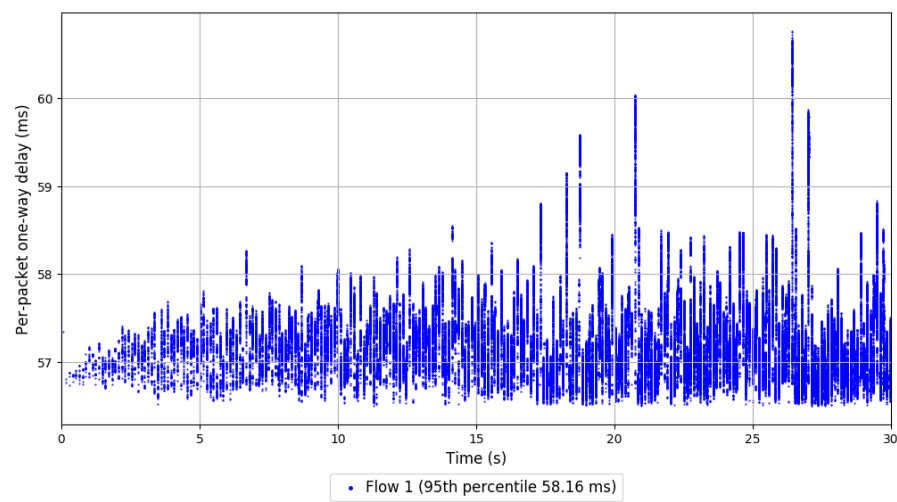
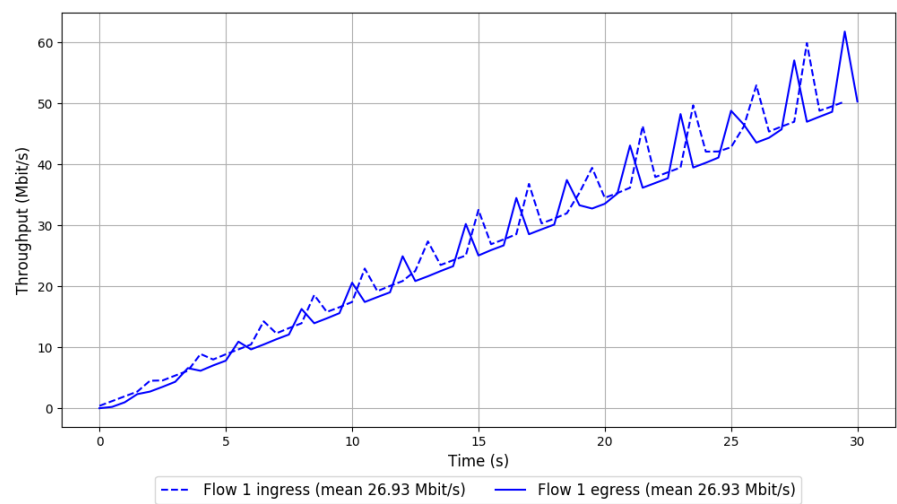


Run 3: Statistics of LEDBAT

Start at: 2019-01-18 05:40:38
End at: 2019-01-18 05:41:08
Local clock offset: -0.367 ms
Remote clock offset: -0.668 ms

Below is generated by plot.py at 2019-01-18 08:31:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 26.93 Mbit/s
95th percentile per-packet one-way delay: 58.155 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 26.93 Mbit/s
95th percentile per-packet one-way delay: 58.155 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

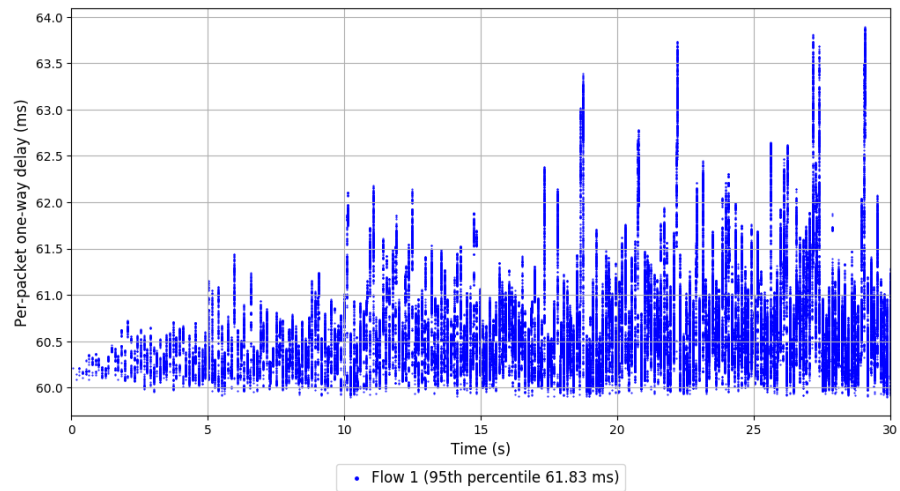
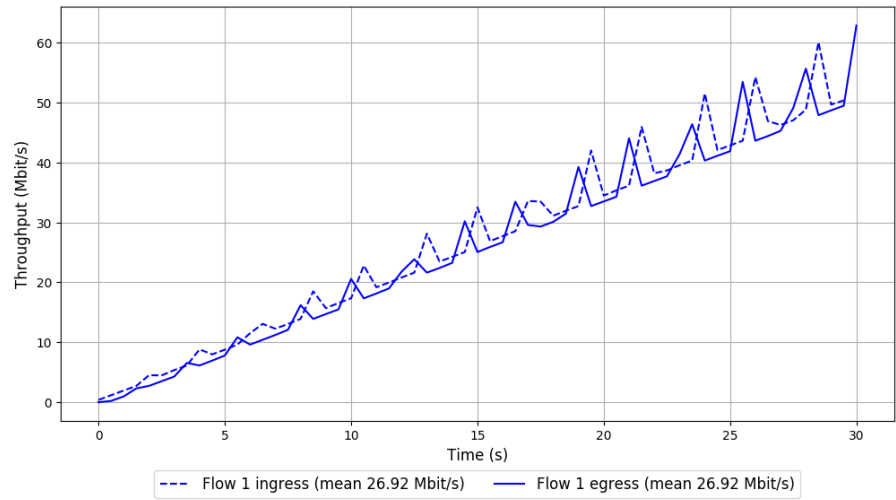


Run 4: Statistics of LEDBAT

Start at: 2019-01-18 06:14:19
End at: 2019-01-18 06:14:49
Local clock offset: -0.431 ms
Remote clock offset: -0.721 ms

Below is generated by plot.py at 2019-01-18 08:31:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 26.92 Mbit/s
95th percentile per-packet one-way delay: 61.829 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 26.92 Mbit/s
95th percentile per-packet one-way delay: 61.829 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-01-18 06:46:06

End at: 2019-01-18 06:46:36

Local clock offset: -0.143 ms

Remote clock offset: 0.404 ms

Below is generated by plot.py at 2019-01-18 08:31:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.61 Mbit/s

95th percentile per-packet one-way delay: 59.051 ms

Loss rate: 0.00%

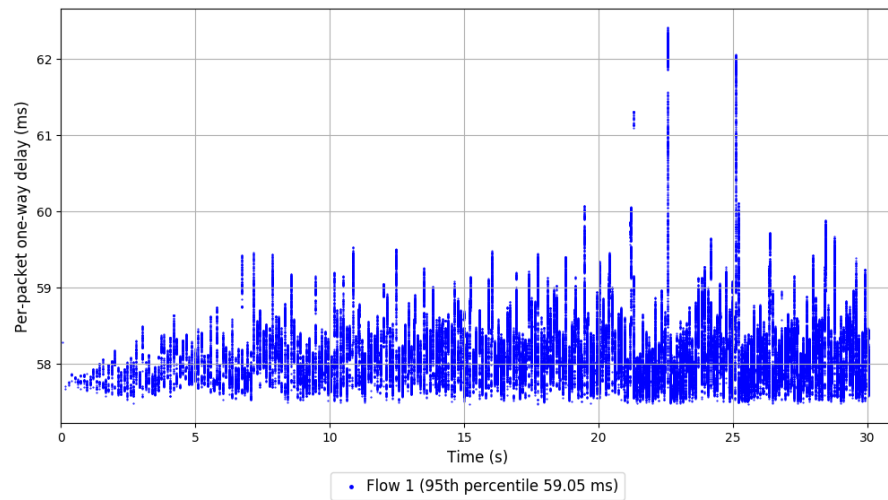
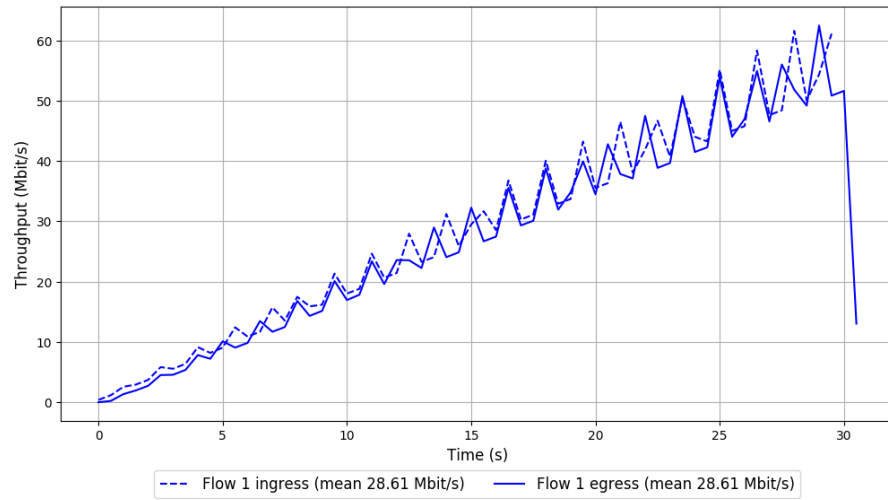
-- Flow 1:

Average throughput: 28.61 Mbit/s

95th percentile per-packet one-way delay: 59.051 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-01-18 04:42:49

End at: 2019-01-18 04:43:19

Local clock offset: -0.33 ms

Remote clock offset: 0.053 ms

Below is generated by plot.py at 2019-01-18 08:37:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 390.56 Mbit/s

95th percentile per-packet one-way delay: 181.709 ms

Loss rate: 1.20%

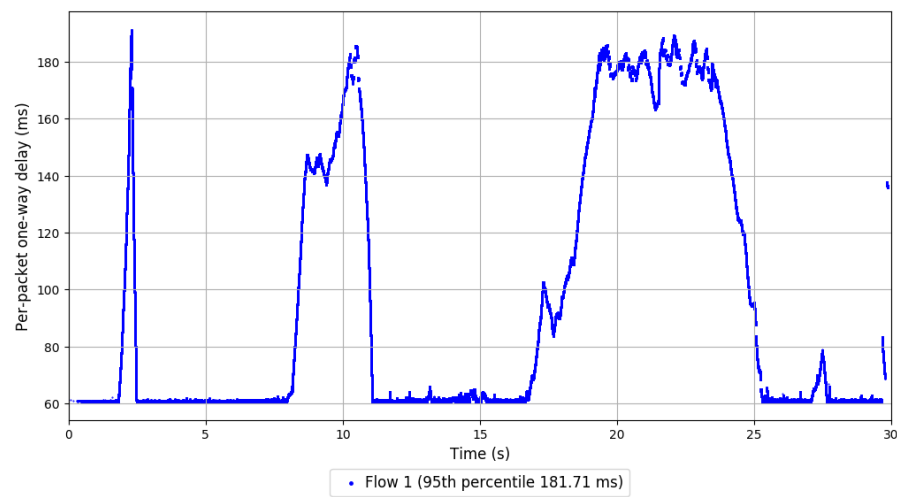
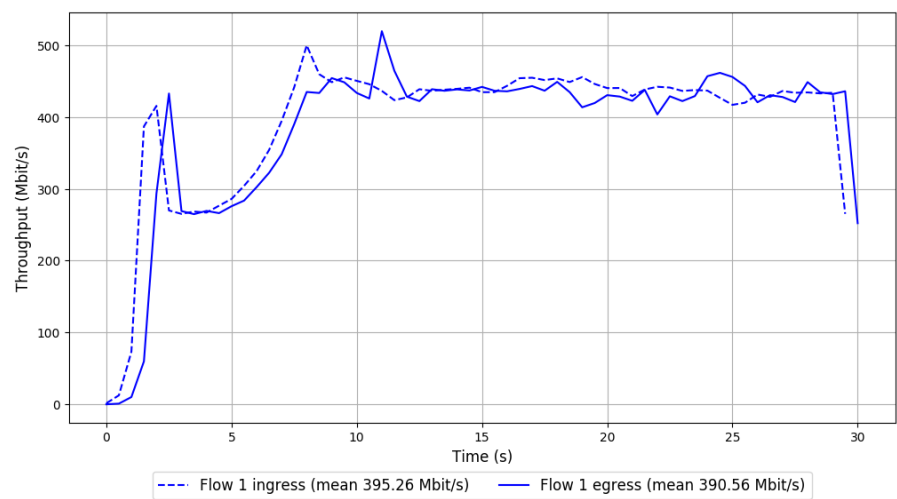
-- Flow 1:

Average throughput: 390.56 Mbit/s

95th percentile per-packet one-way delay: 181.709 ms

Loss rate: 1.20%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-01-18 05:14:35

End at: 2019-01-18 05:15:05

Local clock offset: -0.304 ms

Remote clock offset: 1.336 ms

Below is generated by plot.py at 2019-01-18 08:37:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 394.44 Mbit/s

95th percentile per-packet one-way delay: 178.103 ms

Loss rate: 1.38%

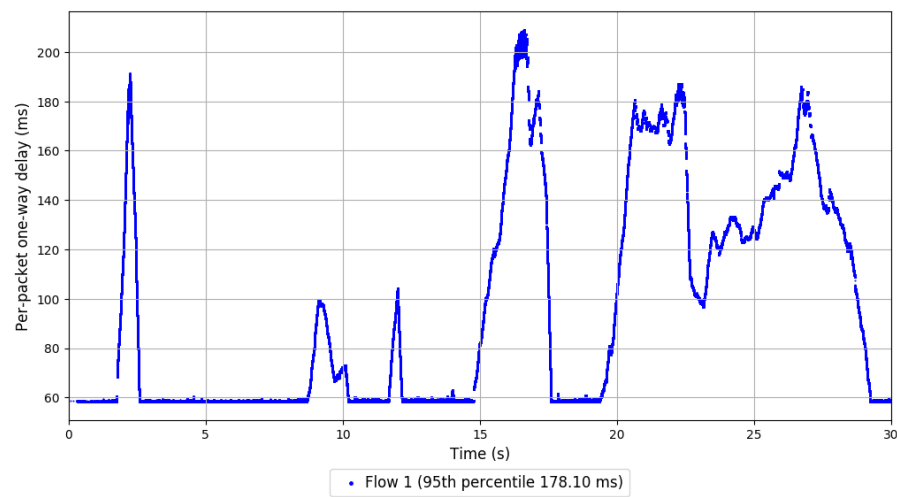
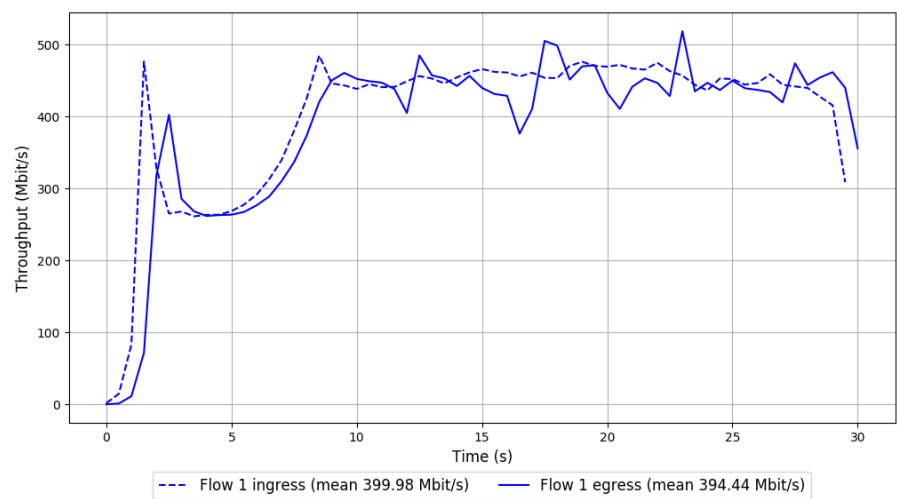
-- Flow 1:

Average throughput: 394.44 Mbit/s

95th percentile per-packet one-way delay: 178.103 ms

Loss rate: 1.38%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-01-18 05:46:36

End at: 2019-01-18 05:47:06

Local clock offset: -0.126 ms

Remote clock offset: 0.063 ms

Below is generated by plot.py at 2019-01-18 08:40:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 403.35 Mbit/s

95th percentile per-packet one-way delay: 187.888 ms

Loss rate: 5.81%

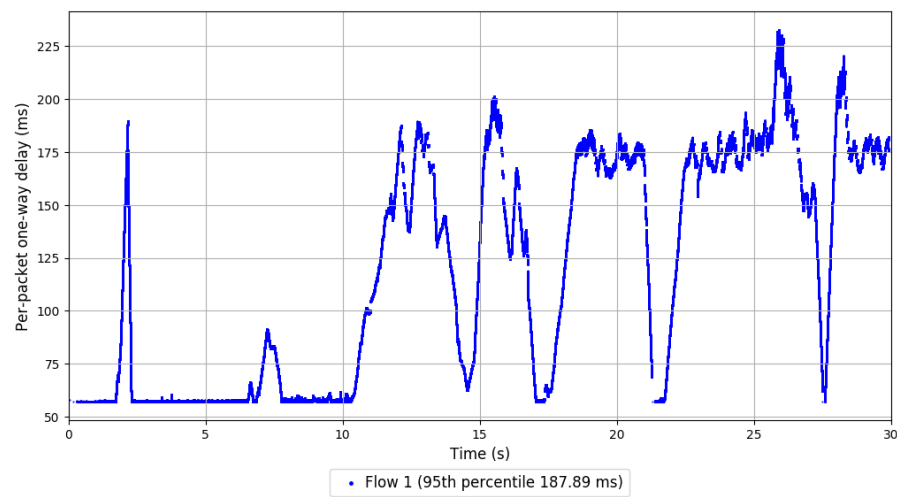
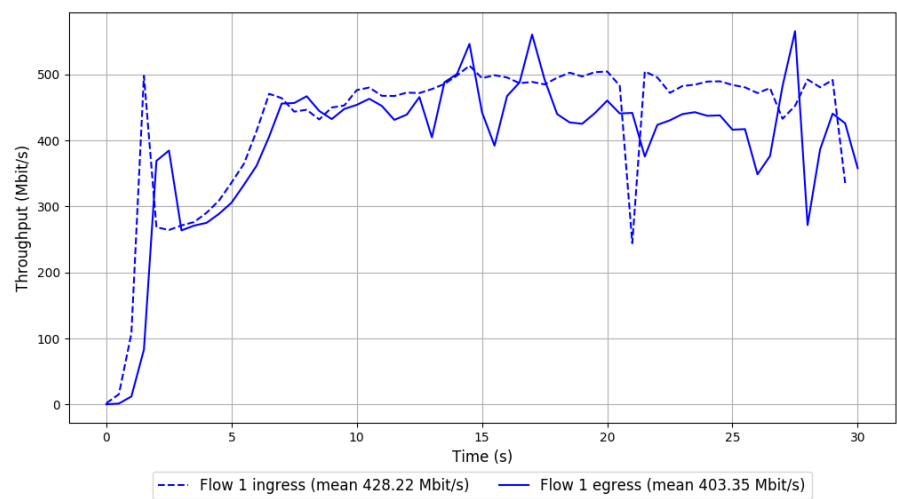
-- Flow 1:

Average throughput: 403.35 Mbit/s

95th percentile per-packet one-way delay: 187.888 ms

Loss rate: 5.81%

Run 3: Report of PCC-Allegro — Data Link

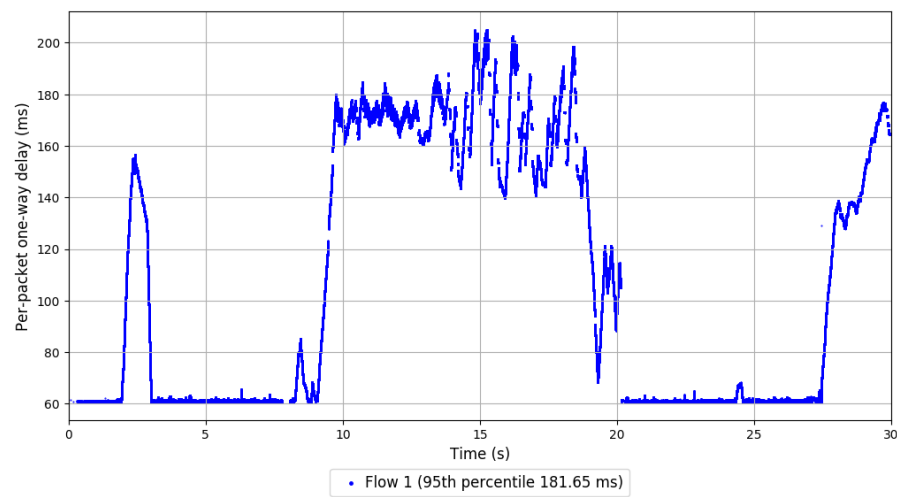
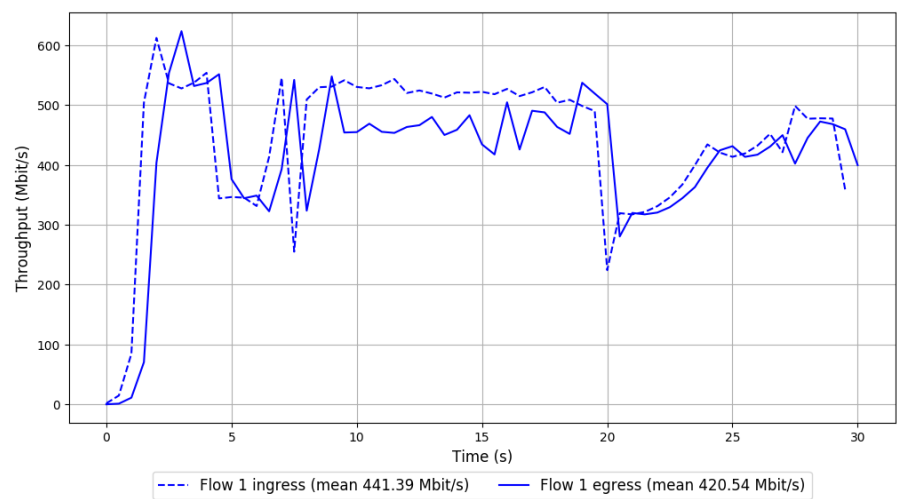


Run 4: Statistics of PCC-Allegro

Start at: 2019-01-18 06:20:10
End at: 2019-01-18 06:20:40
Local clock offset: -0.389 ms
Remote clock offset: -0.131 ms

Below is generated by plot.py at 2019-01-18 08:44:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 420.54 Mbit/s
95th percentile per-packet one-way delay: 181.647 ms
Loss rate: 4.73%
-- Flow 1:
Average throughput: 420.54 Mbit/s
95th percentile per-packet one-way delay: 181.647 ms
Loss rate: 4.73%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-01-18 06:51:40

End at: 2019-01-18 06:52:10

Local clock offset: -0.326 ms

Remote clock offset: -0.405 ms

Below is generated by plot.py at 2019-01-18 08:45:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 396.53 Mbit/s

95th percentile per-packet one-way delay: 176.410 ms

Loss rate: 0.86%

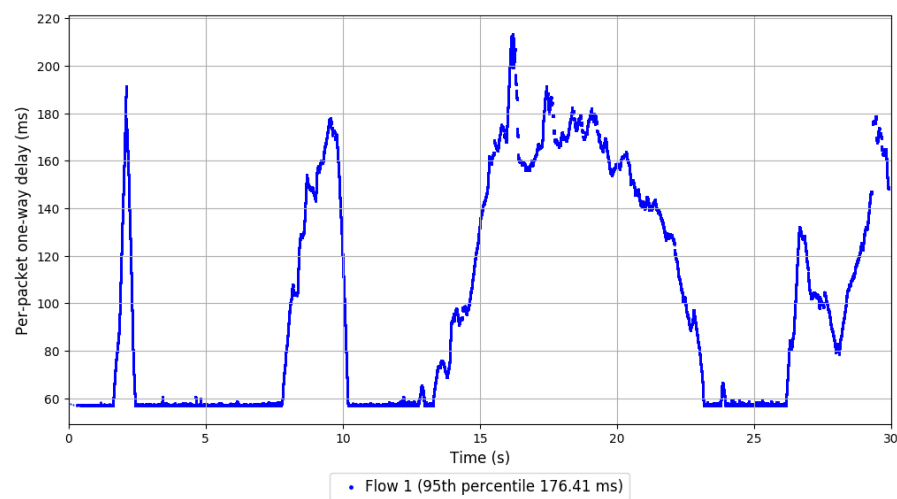
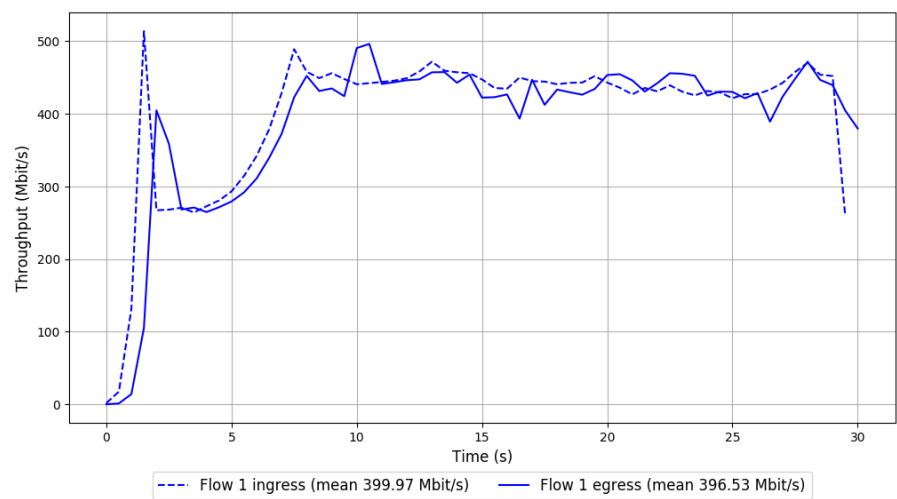
-- Flow 1:

Average throughput: 396.53 Mbit/s

95th percentile per-packet one-way delay: 176.410 ms

Loss rate: 0.86%

Run 5: Report of PCC-Allegro — Data Link

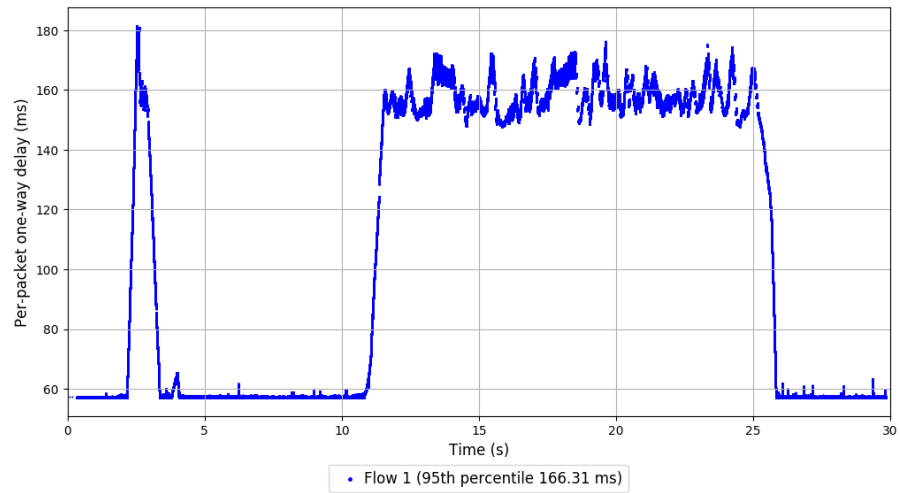
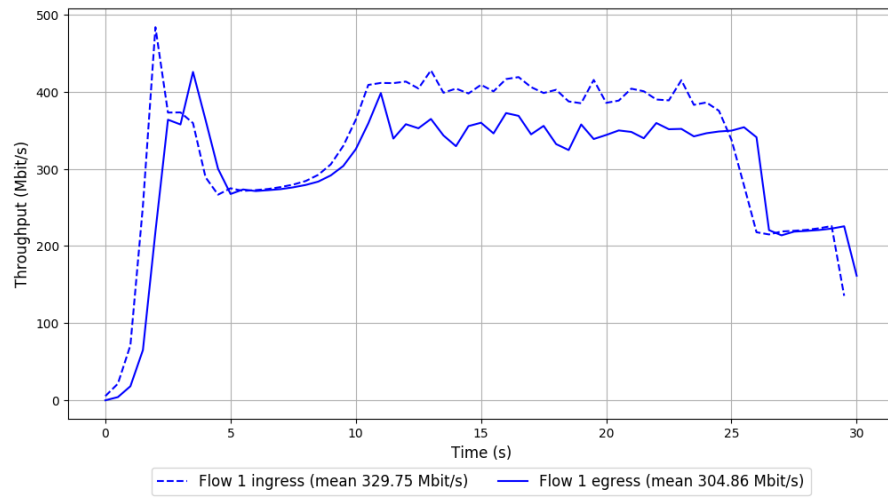



```
Run 1: Statistics of PCC-Expr

Start at: 2019-01-18 04:45:56
End at: 2019-01-18 04:46:26
Local clock offset: -0.115 ms
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2019-01-18 08:45:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 304.86 Mbit/s
95th percentile per-packet one-way delay: 166.312 ms
Loss rate: 7.55%
-- Flow 1:
Average throughput: 304.86 Mbit/s
95th percentile per-packet one-way delay: 166.312 ms
Loss rate: 7.55%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-01-18 05:17:49

End at: 2019-01-18 05:18:19

Local clock offset: 0.239 ms

Remote clock offset: 0.048 ms

Below is generated by plot.py at 2019-01-18 08:45:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 325.86 Mbit/s

95th percentile per-packet one-way delay: 154.332 ms

Loss rate: 0.86%

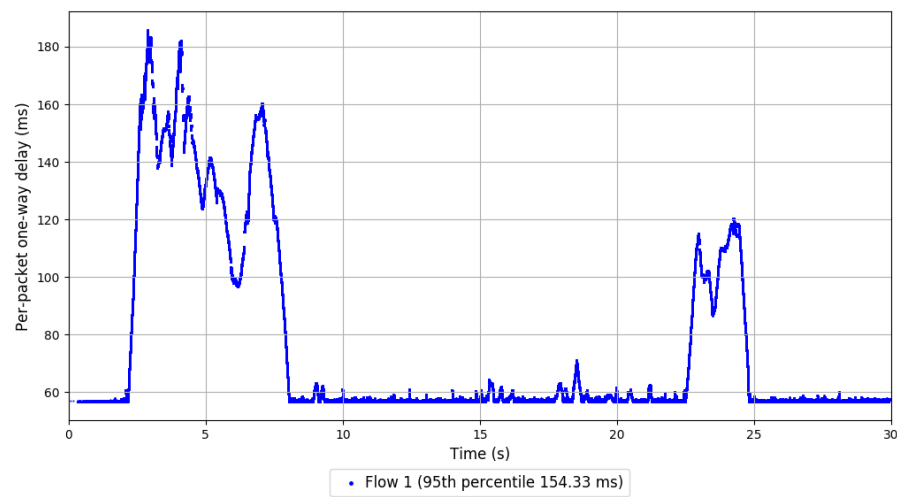
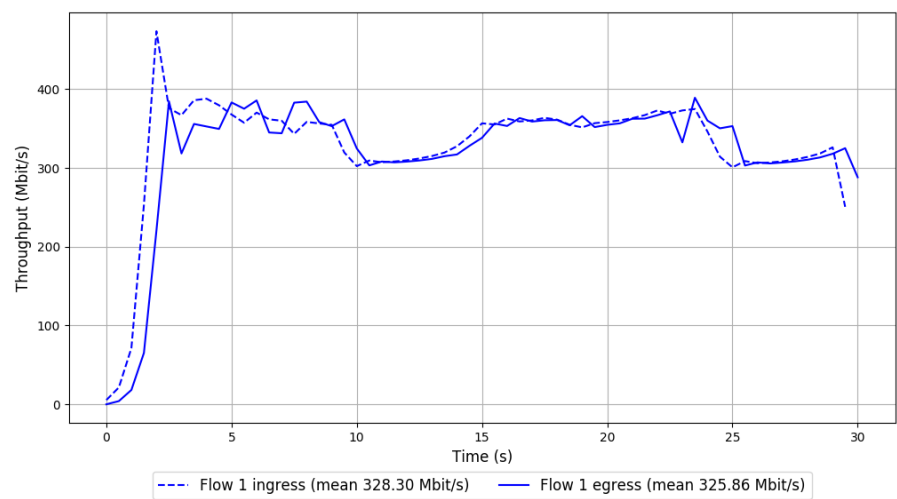
-- Flow 1:

Average throughput: 325.86 Mbit/s

95th percentile per-packet one-way delay: 154.332 ms

Loss rate: 0.86%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-01-18 05:50:02

End at: 2019-01-18 05:50:32

Local clock offset: 0.255 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2019-01-18 08:45:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 314.84 Mbit/s

95th percentile per-packet one-way delay: 169.377 ms

Loss rate: 2.86%

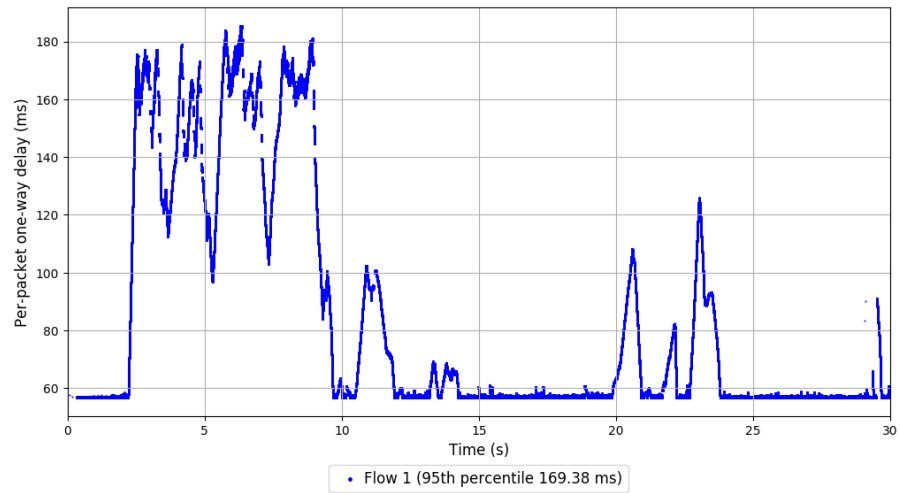
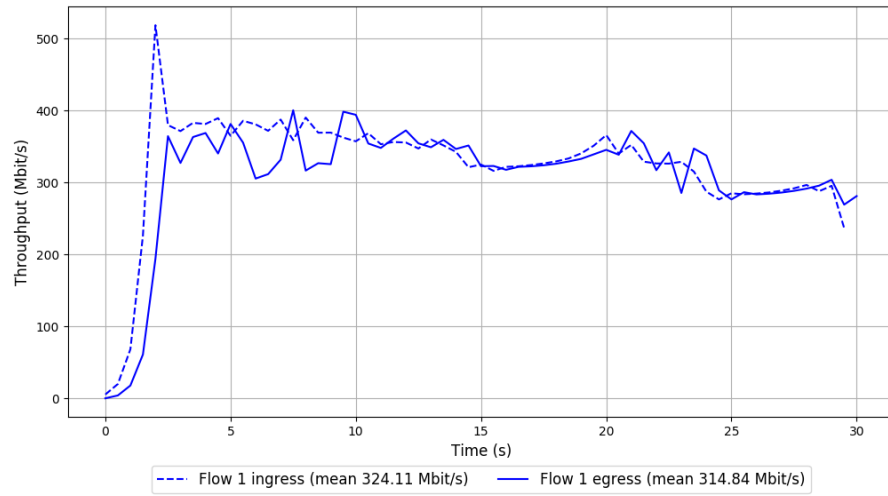
-- Flow 1:

Average throughput: 314.84 Mbit/s

95th percentile per-packet one-way delay: 169.377 ms

Loss rate: 2.86%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-01-18 06:23:22

End at: 2019-01-18 06:23:52

Local clock offset: 0.261 ms

Remote clock offset: 0.087 ms

Below is generated by plot.py at 2019-01-18 08:50:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 313.60 Mbit/s

95th percentile per-packet one-way delay: 170.874 ms

Loss rate: 2.60%

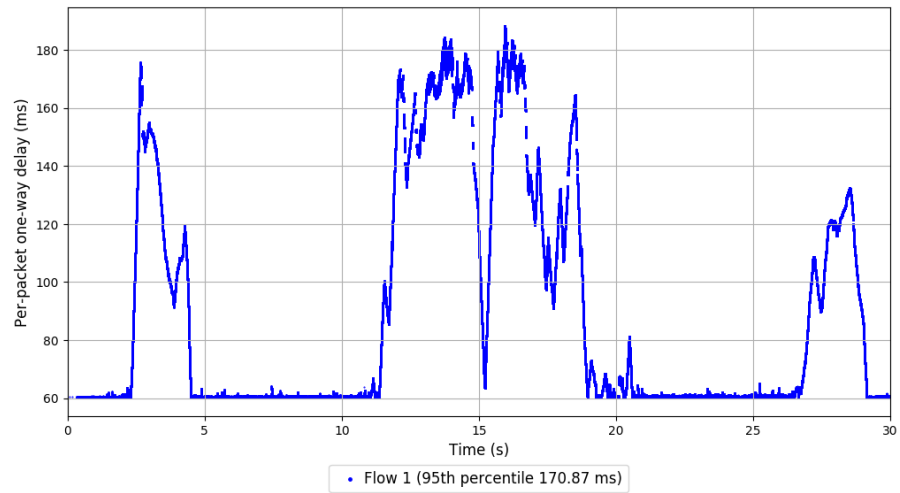
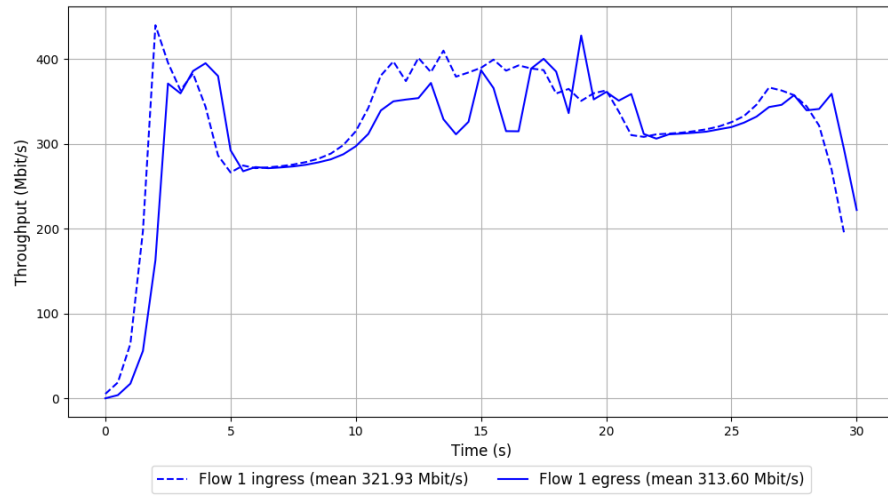
-- Flow 1:

Average throughput: 313.60 Mbit/s

95th percentile per-packet one-way delay: 170.874 ms

Loss rate: 2.60%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-01-18 06:54:43

End at: 2019-01-18 06:55:13

Local clock offset: -0.163 ms

Remote clock offset: 0.204 ms

Below is generated by plot.py at 2019-01-18 08:50:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 310.50 Mbit/s

95th percentile per-packet one-way delay: 114.060 ms

Loss rate: 0.02%

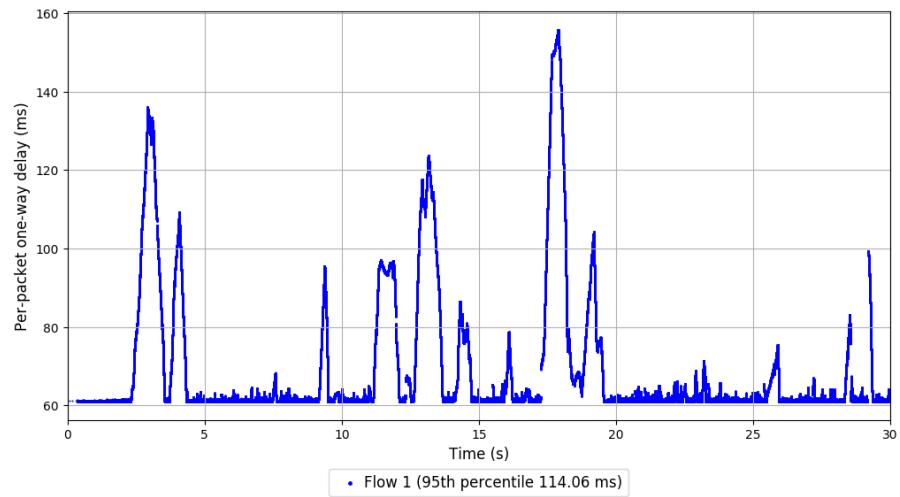
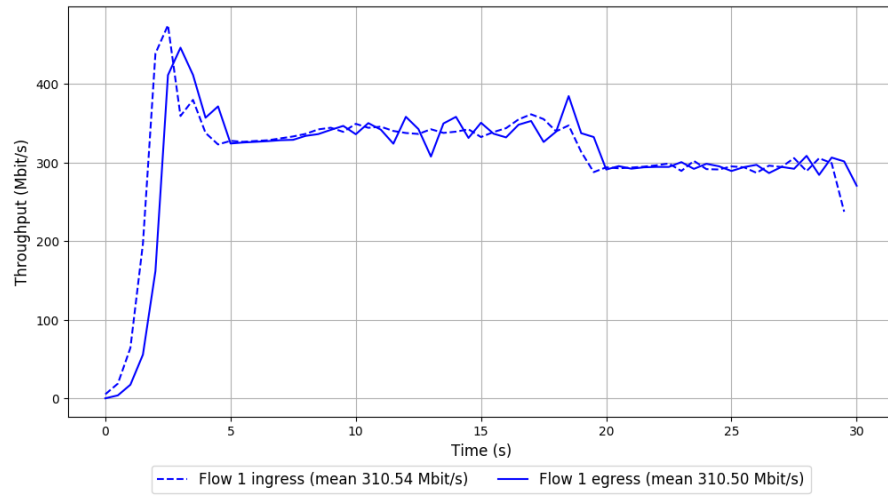
-- Flow 1:

Average throughput: 310.50 Mbit/s

95th percentile per-packet one-way delay: 114.060 ms

Loss rate: 0.02%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

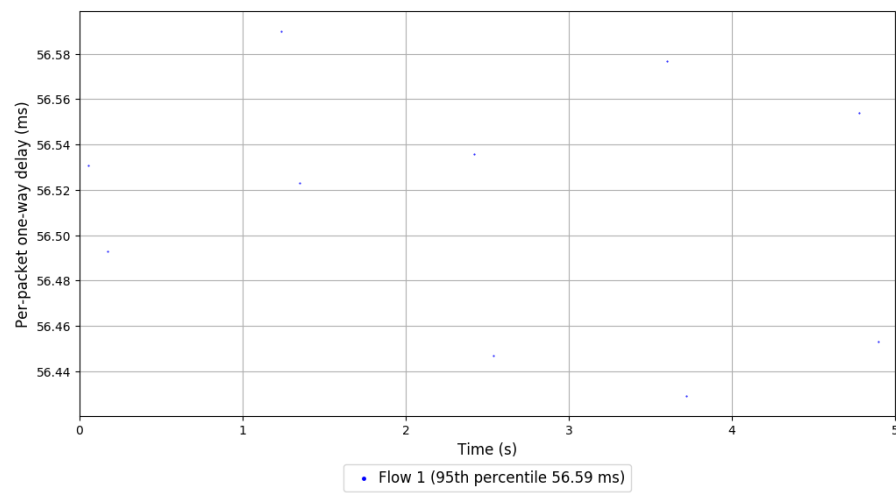
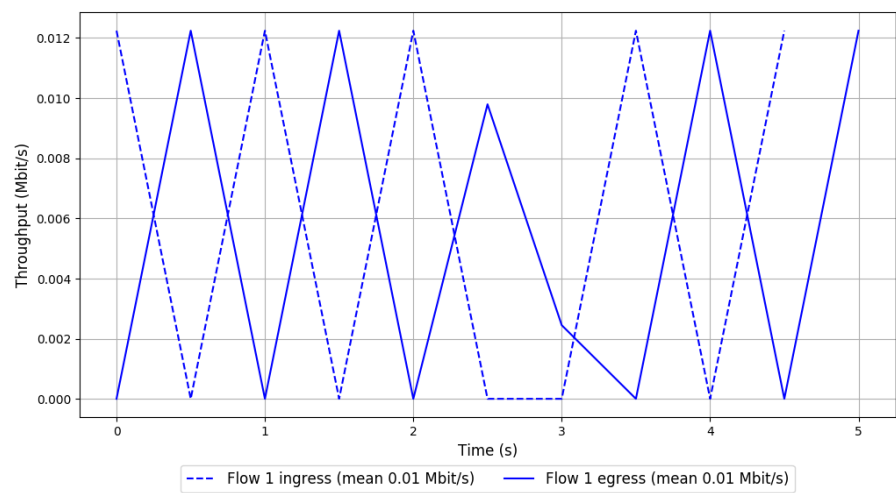
Start at: 2019-01-18 04:47:38

End at: 2019-01-18 04:48:08

Local clock offset: -0.001 ms

Remote clock offset: -0.738 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-01-18 05:19:32

End at: 2019-01-18 05:20:02

Local clock offset: 0.068 ms

Remote clock offset: -1.29 ms

Below is generated by plot.py at 2019-01-18 08:50:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.21 Mbit/s

95th percentile per-packet one-way delay: 55.604 ms

Loss rate: 0.00%

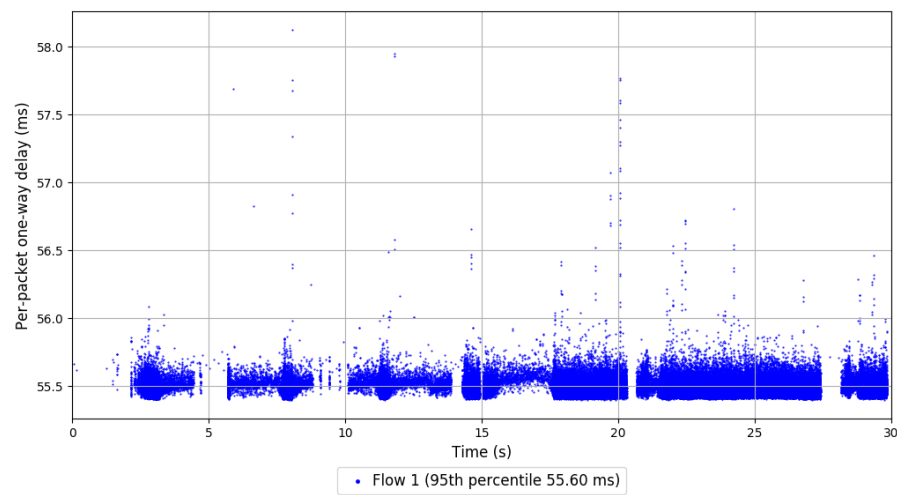
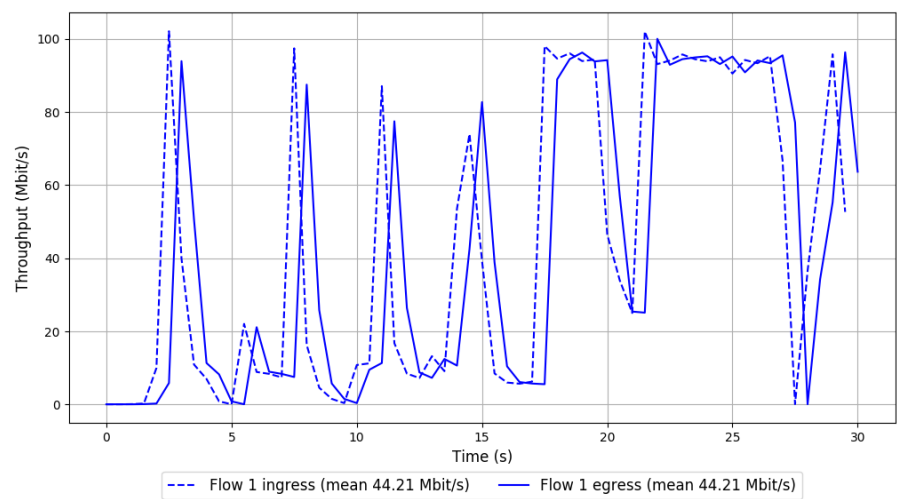
-- Flow 1:

Average throughput: 44.21 Mbit/s

95th percentile per-packet one-way delay: 55.604 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link

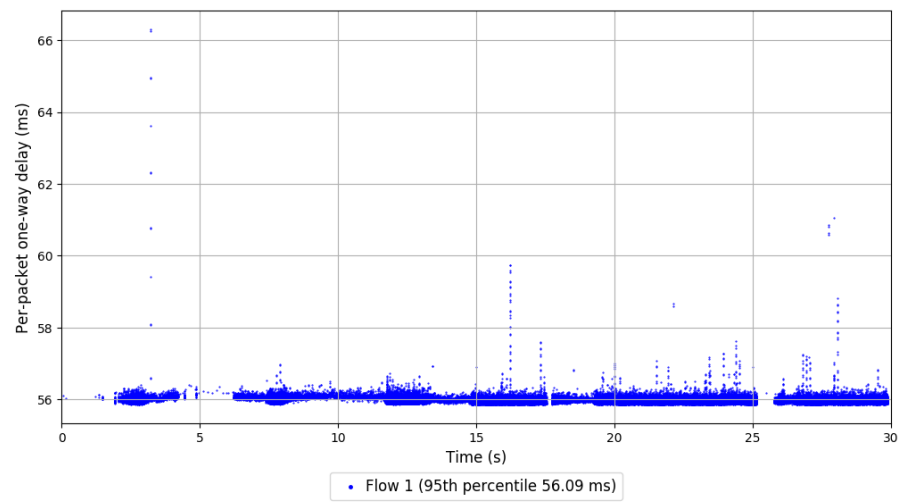
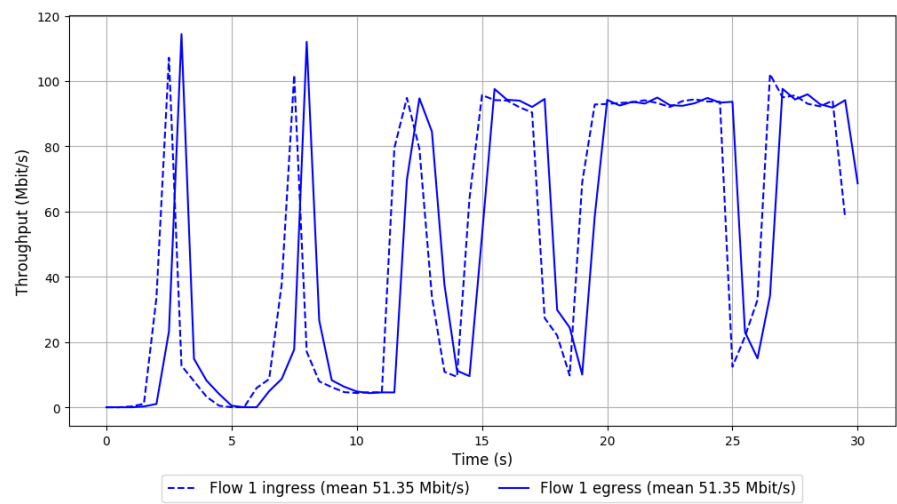


Run 3: Statistics of QUIC Cubic

Start at: 2019-01-18 05:51:51
End at: 2019-01-18 05:52:21
Local clock offset: -0.375 ms
Remote clock offset: -1.376 ms

Below is generated by plot.py at 2019-01-18 08:50:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 51.35 Mbit/s
95th percentile per-packet one-way delay: 56.091 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.35 Mbit/s
95th percentile per-packet one-way delay: 56.091 ms
Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-01-18 06:25:12

End at: 2019-01-18 06:25:42

Local clock offset: 0.256 ms

Remote clock offset: 0.504 ms

Below is generated by plot.py at 2019-01-18 08:50:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.75 Mbit/s

95th percentile per-packet one-way delay: 60.999 ms

Loss rate: 0.01%

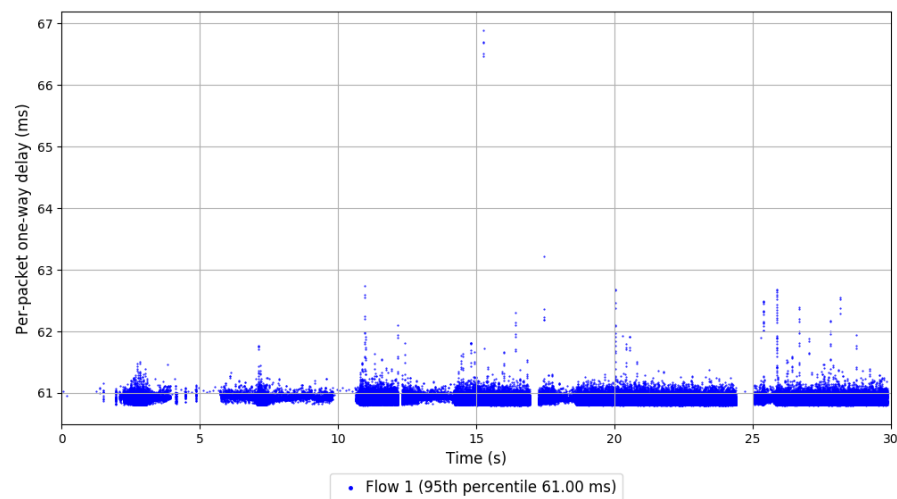
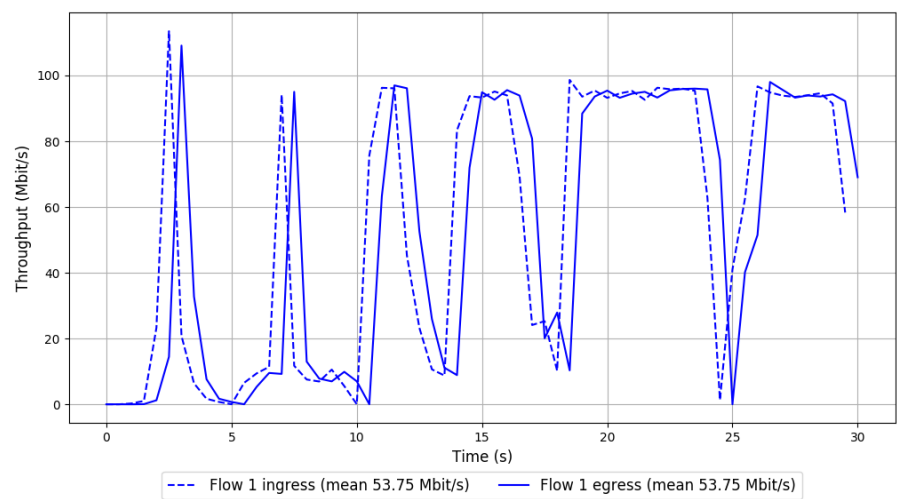
-- Flow 1:

Average throughput: 53.75 Mbit/s

95th percentile per-packet one-way delay: 60.999 ms

Loss rate: 0.01%

Run 4: Report of QUIC Cubic — Data Link

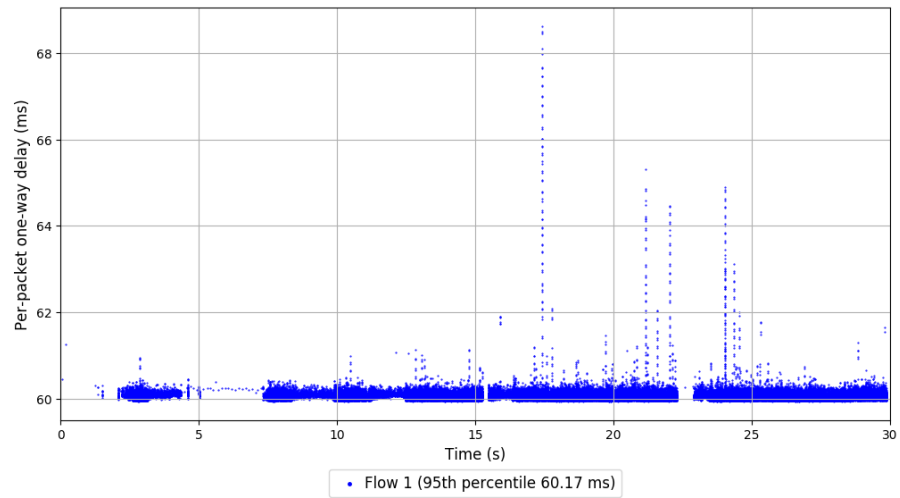
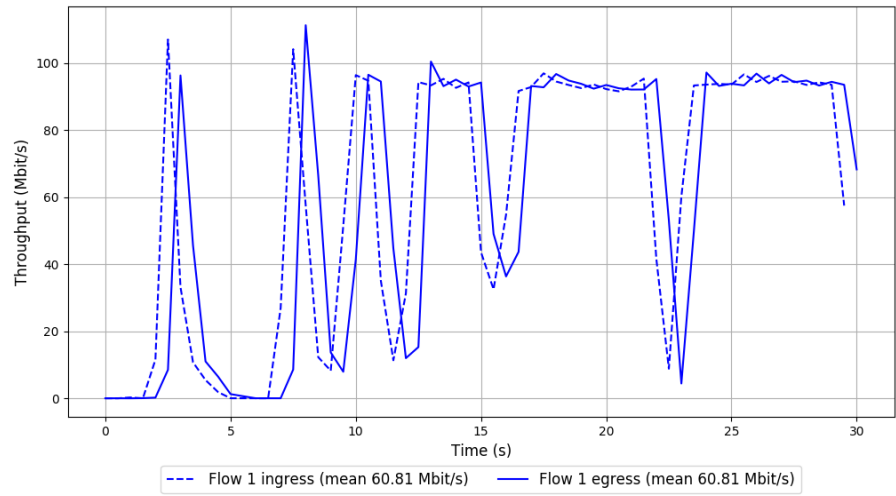


Run 5: Statistics of QUIC Cubic

Start at: 2019-01-18 06:56:19
End at: 2019-01-18 06:56:49
Local clock offset: -0.085 ms
Remote clock offset: -0.172 ms

Below is generated by plot.py at 2019-01-18 08:50:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 60.81 Mbit/s
95th percentile per-packet one-way delay: 60.175 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 60.81 Mbit/s
95th percentile per-packet one-way delay: 60.175 ms
Loss rate: 0.01%

Run 5: Report of QUIC Cubic — Data Link

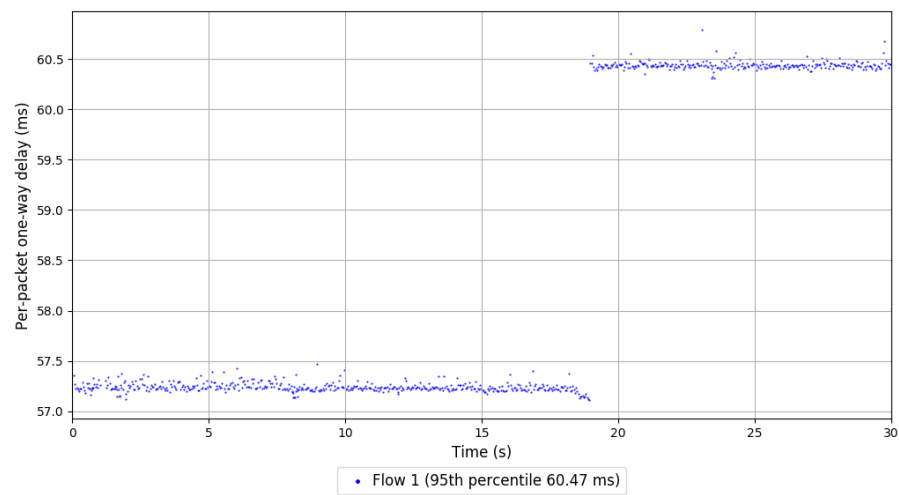
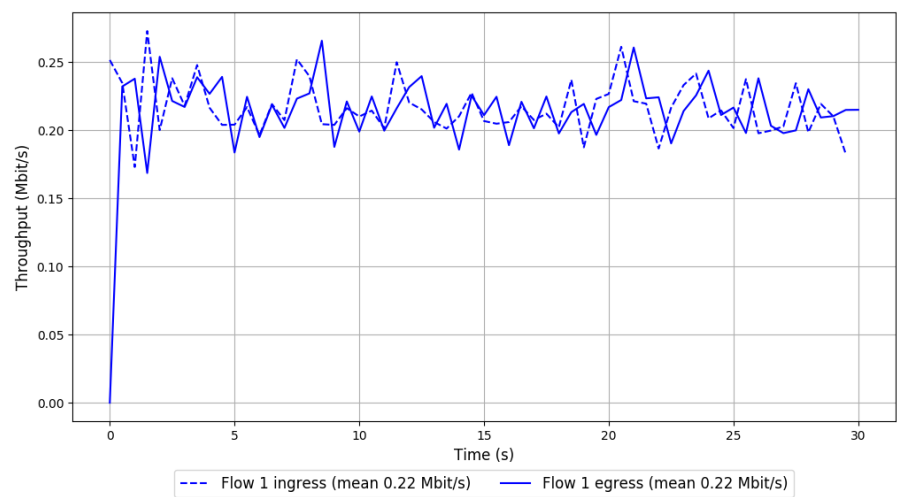


```
Run 1: Statistics of SCReAM

Start at: 2019-01-18 04:39:58
End at: 2019-01-18 04:40:28
Local clock offset: 0.304 ms
Remote clock offset: 0.407 ms

# Below is generated by plot.py at 2019-01-18 08:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.466 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.466 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

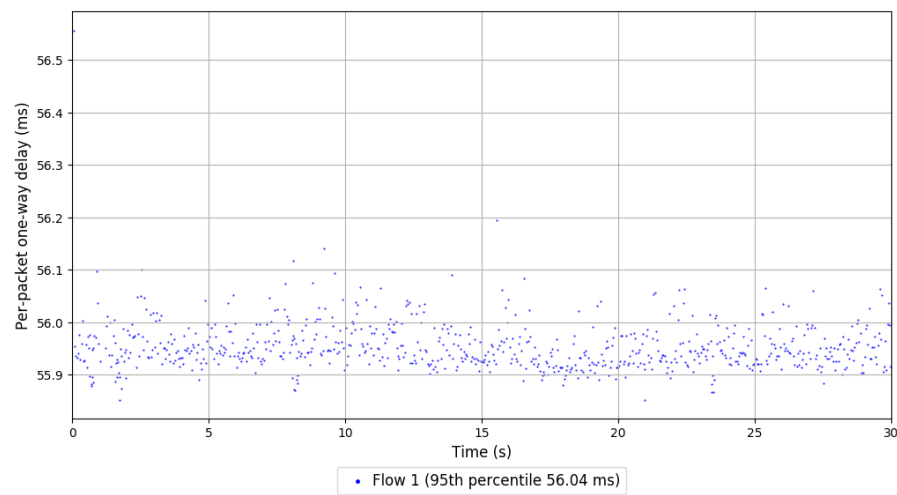
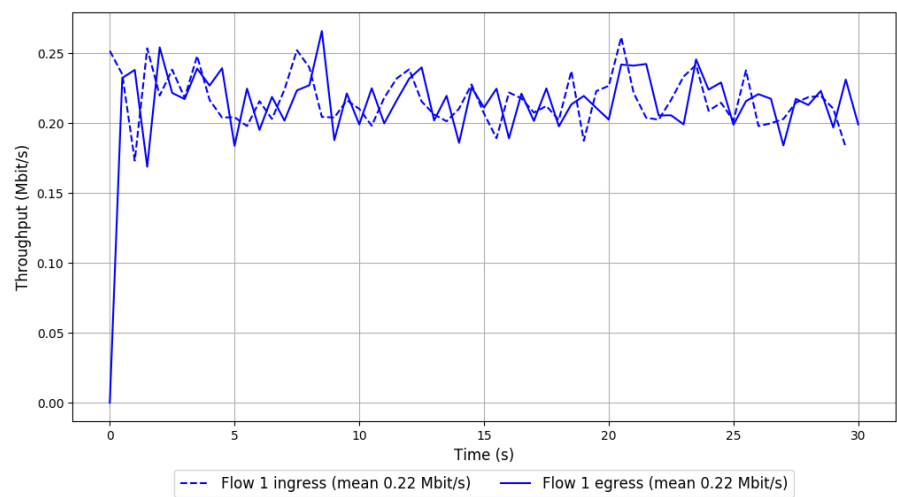


Run 2: Statistics of SCReAM

Start at: 2019-01-18 05:11:47
End at: 2019-01-18 05:12:17
Local clock offset: -0.088 ms
Remote clock offset: -1.287 ms

Below is generated by plot.py at 2019-01-18 08:50:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.036 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.036 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

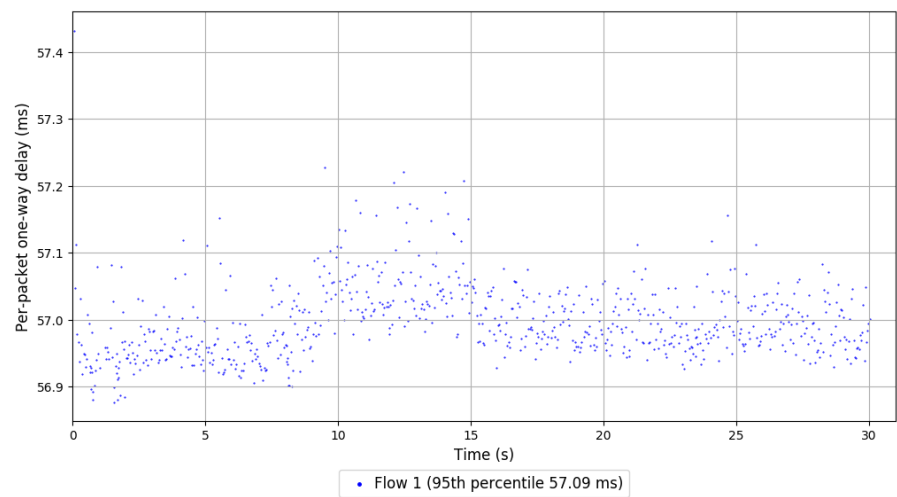
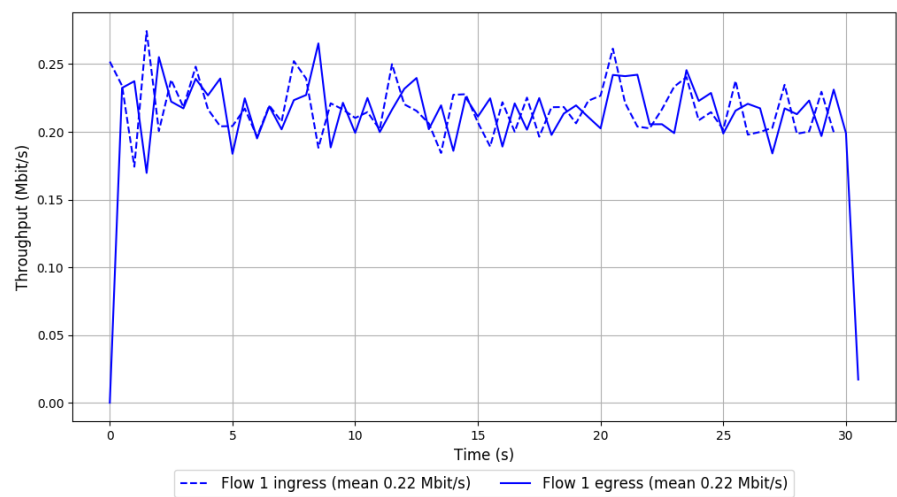


Run 3: Statistics of SCReAM

Start at: 2019-01-18 05:43:41
End at: 2019-01-18 05:44:11
Local clock offset: -0.159 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2019-01-18 08:50:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.089 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.089 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

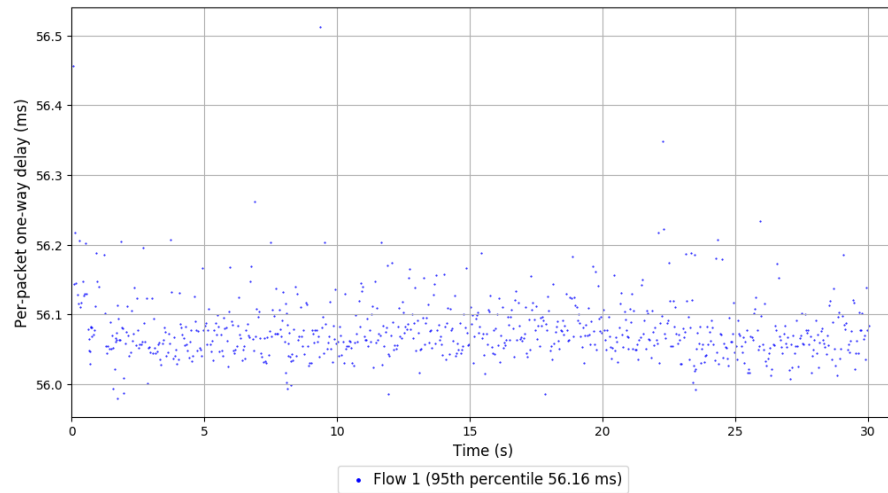
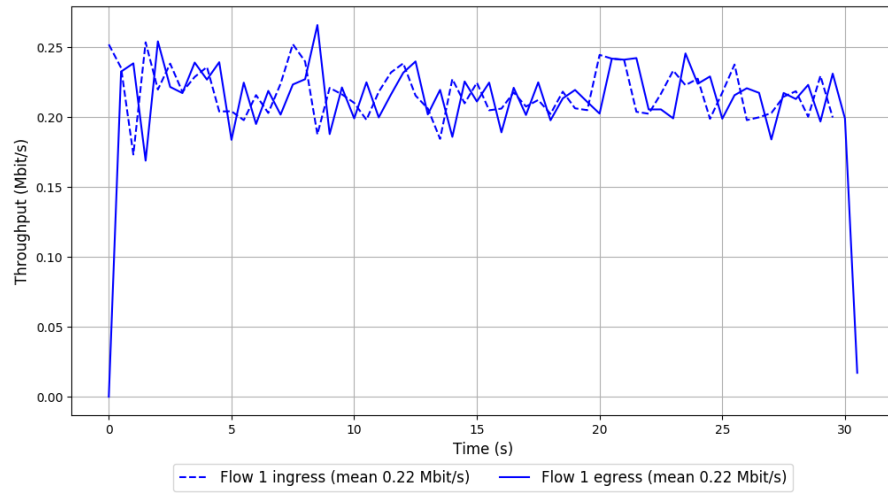


Run 4: Statistics of SCReAM

Start at: 2019-01-18 06:17:15
End at: 2019-01-18 06:17:45
Local clock offset: -0.358 ms
Remote clock offset: -1.408 ms

Below is generated by plot.py at 2019-01-18 08:50:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.158 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.158 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

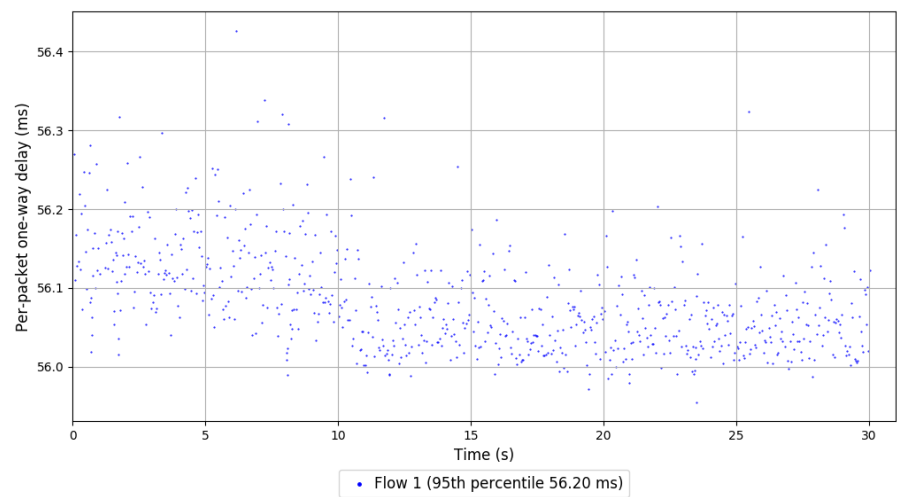
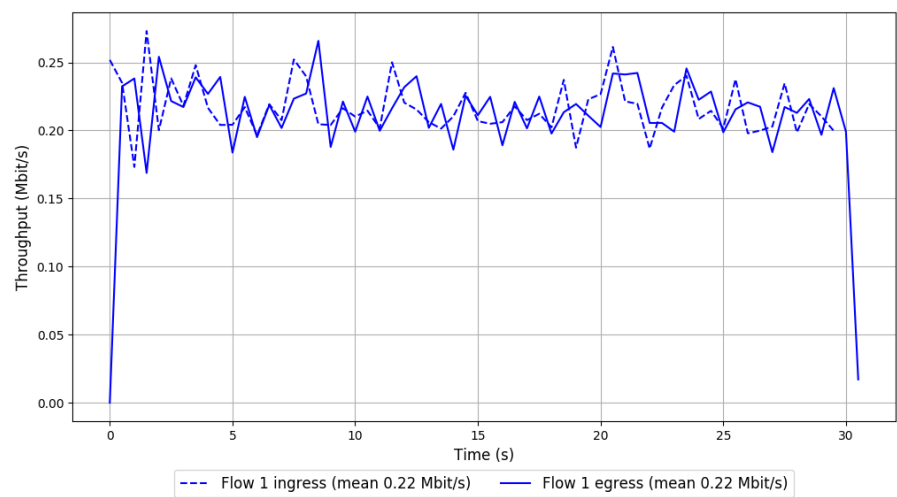


Run 5: Statistics of SCReAM

Start at: 2019-01-18 06:48:56
End at: 2019-01-18 06:49:26
Local clock offset: -0.17 ms
Remote clock offset: -1.305 ms

Below is generated by plot.py at 2019-01-18 08:50:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.204 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.204 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-01-18 04:36:00
End at: 2019-01-18 04:36:30
Local clock offset: -0.002 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2019-01-18 08:50:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.93 Mbit/s

95th percentile per-packet one-way delay: 57.368 ms

Loss rate: 0.00%

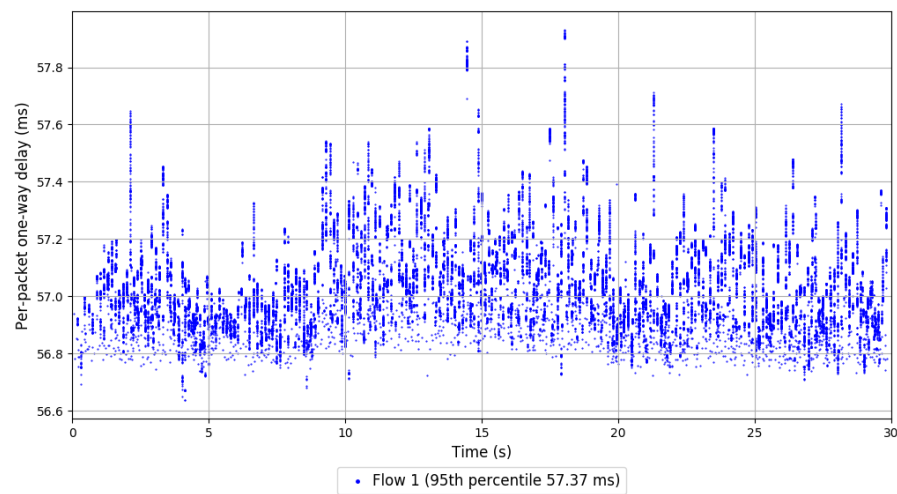
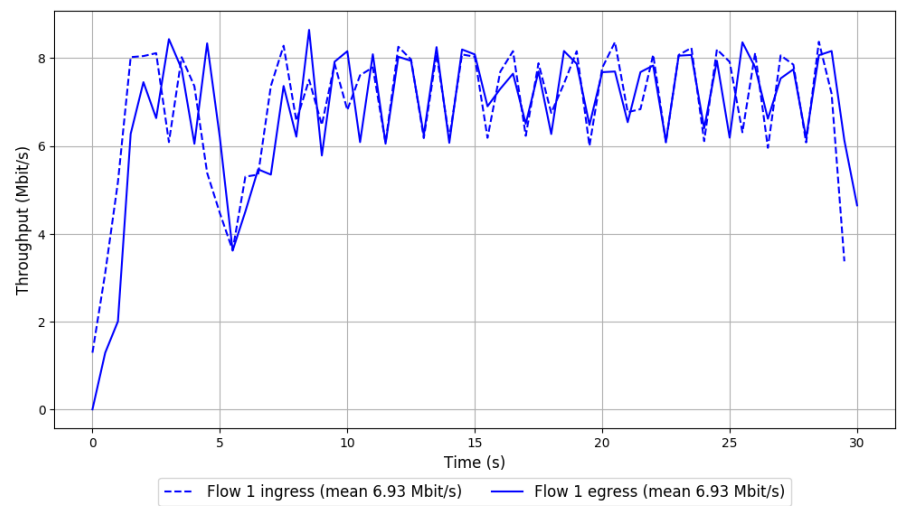
-- Flow 1:

Average throughput: 6.93 Mbit/s

95th percentile per-packet one-way delay: 57.368 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-01-18 05:07:46

End at: 2019-01-18 05:08:16

Local clock offset: -0.226 ms

Remote clock offset: 0.569 ms

Below is generated by plot.py at 2019-01-18 08:50:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 58.412 ms

Loss rate: 0.00%

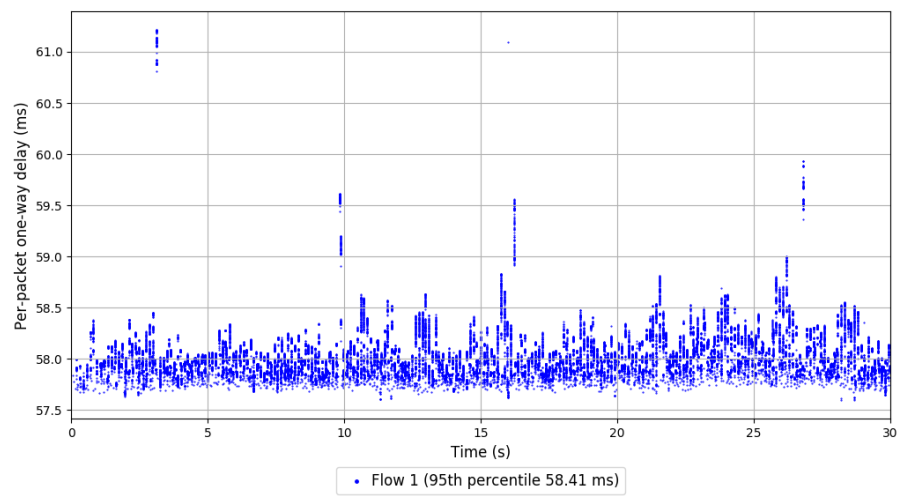
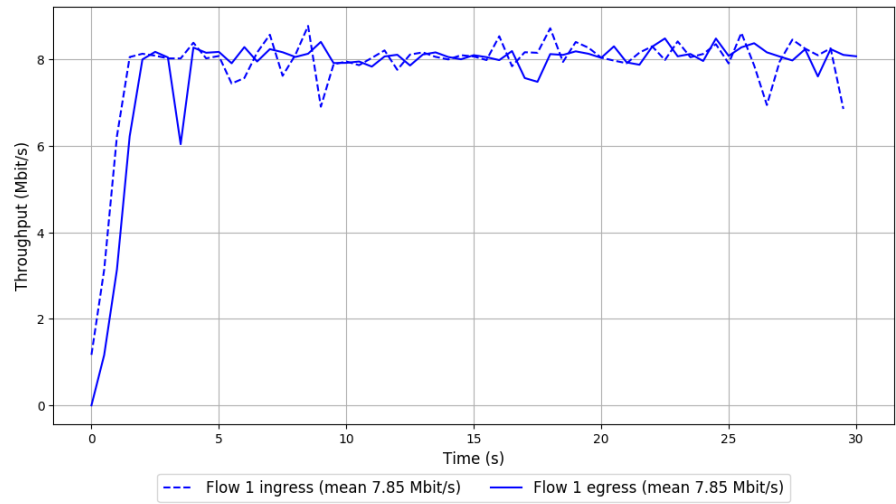
-- Flow 1:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 58.412 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

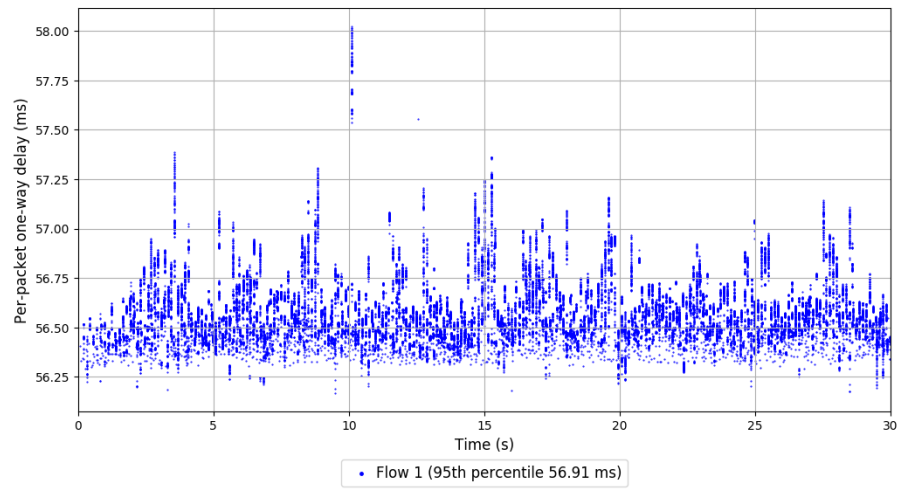
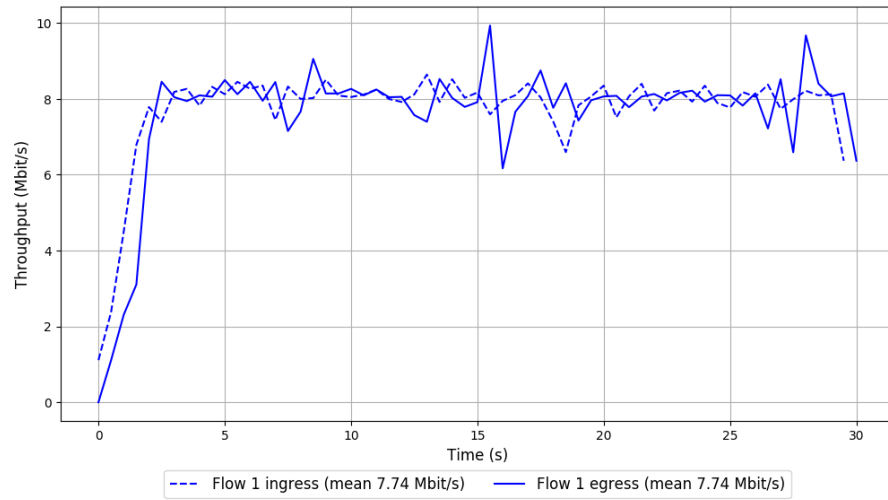


Run 3: Statistics of Sprout

Start at: 2019-01-18 05:39:29
End at: 2019-01-18 05:39:59
Local clock offset: -0.183 ms
Remote clock offset: -0.648 ms

Below is generated by plot.py at 2019-01-18 08:50:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.74 Mbit/s
95th percentile per-packet one-way delay: 56.907 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.74 Mbit/s
95th percentile per-packet one-way delay: 56.907 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

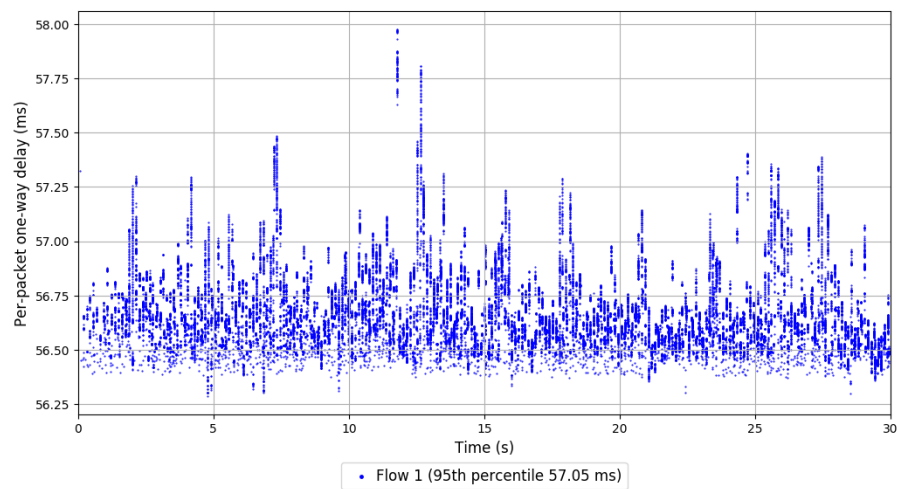
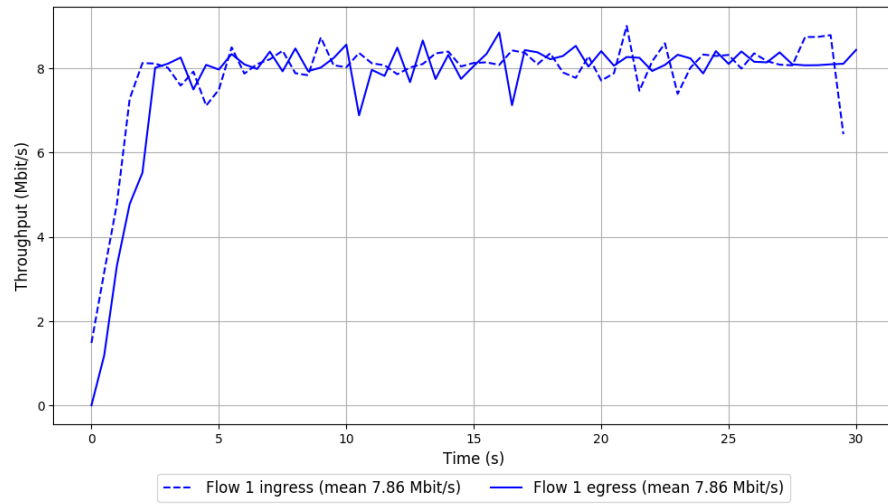


Run 4: Statistics of Sprout

Start at: 2019-01-18 06:13:10
End at: 2019-01-18 06:13:40
Local clock offset: -0.166 ms
Remote clock offset: -0.733 ms

Below is generated by plot.py at 2019-01-18 08:50:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.86 Mbit/s
95th percentile per-packet one-way delay: 57.045 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.86 Mbit/s
95th percentile per-packet one-way delay: 57.045 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

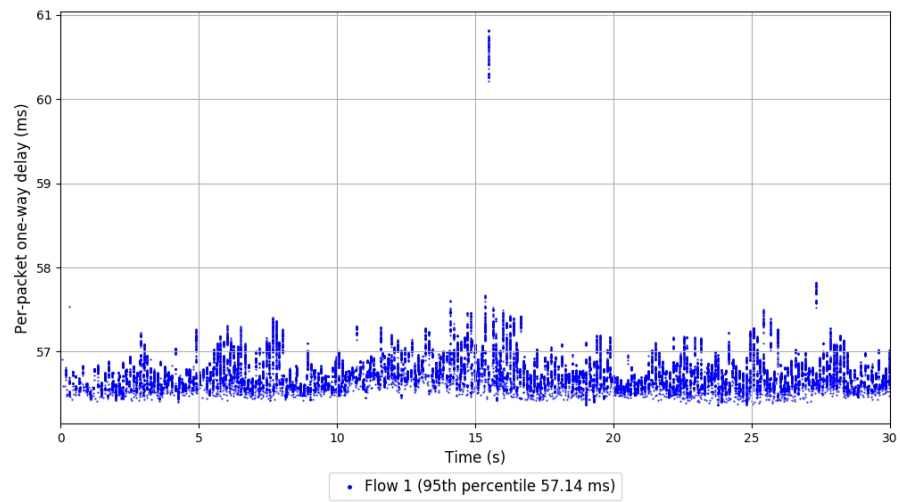
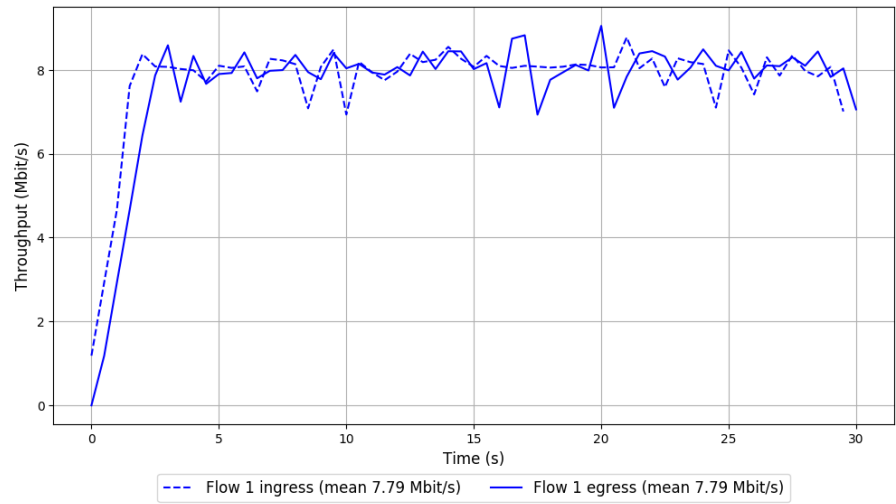


Run 5: Statistics of Sprout

Start at: 2019-01-18 06:44:57
End at: 2019-01-18 06:45:27
Local clock offset: -0.575 ms
Remote clock offset: -1.446 ms

Below is generated by plot.py at 2019-01-18 08:50:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.79 Mbit/s
95th percentile per-packet one-way delay: 57.138 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.79 Mbit/s
95th percentile per-packet one-way delay: 57.138 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-01-18 04:29:44

End at: 2019-01-18 04:30:14

Local clock offset: -0.186 ms

Remote clock offset: -0.472 ms

Below is generated by plot.py at 2019-01-18 08:52:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.41 Mbit/s

95th percentile per-packet one-way delay: 60.047 ms

Loss rate: 0.01%

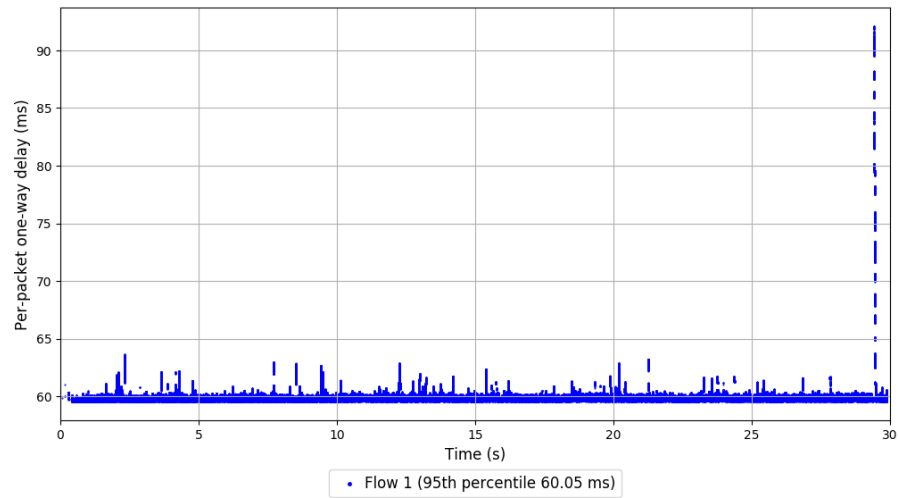
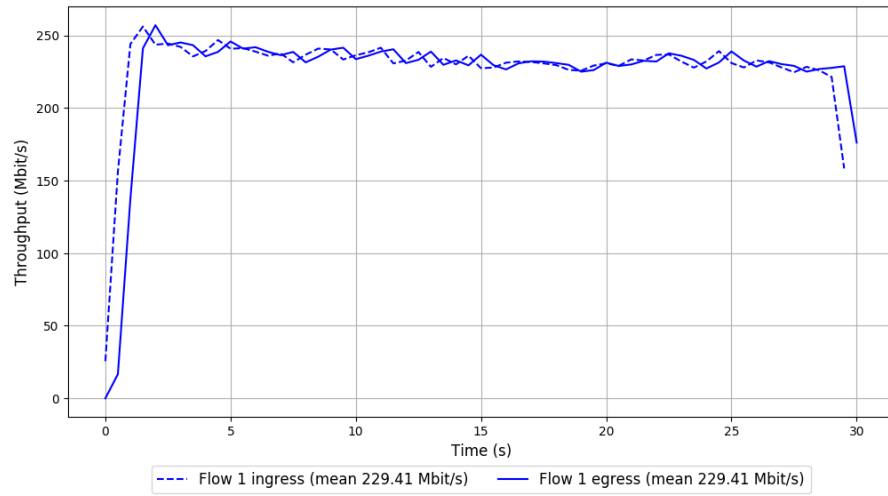
-- Flow 1:

Average throughput: 229.41 Mbit/s

95th percentile per-packet one-way delay: 60.047 ms

Loss rate: 0.01%

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

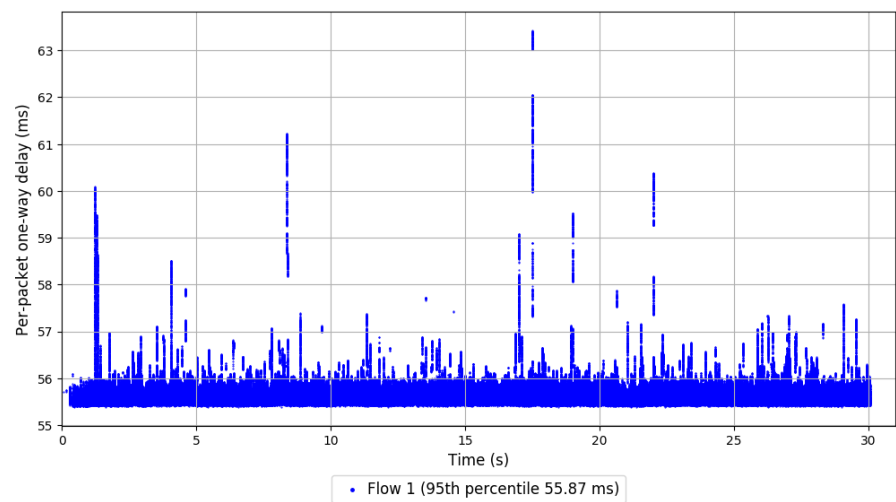
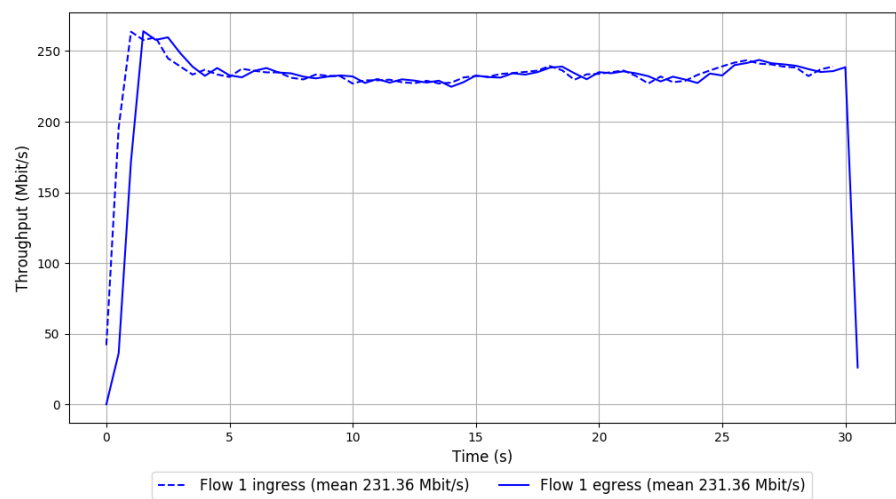


Run 2: Statistics of TaoVA-100x

Start at: 2019-01-18 05:01:15
End at: 2019-01-18 05:01:45
Local clock offset: 0.128 ms
Remote clock offset: -1.329 ms

Below is generated by plot.py at 2019-01-18 08:53:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 231.36 Mbit/s
95th percentile per-packet one-way delay: 55.872 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 231.36 Mbit/s
95th percentile per-packet one-way delay: 55.872 ms
Loss rate: 0.00%

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

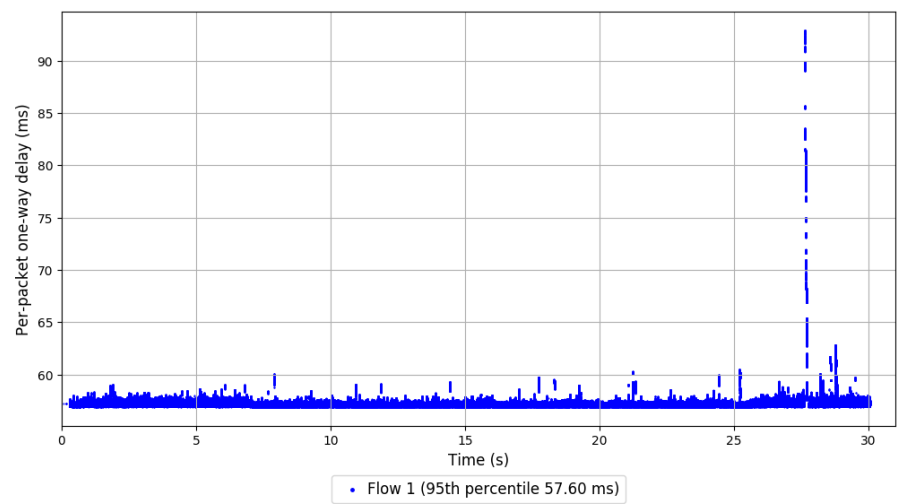
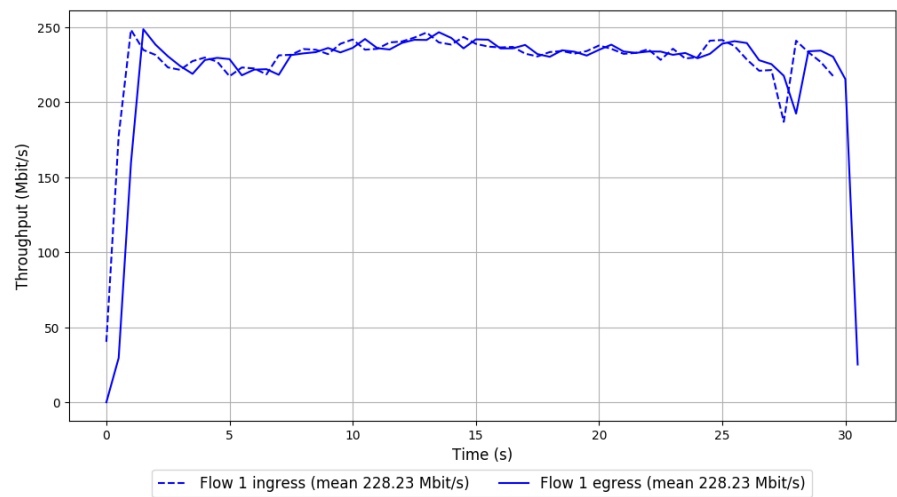


Run 3: Statistics of TaoVA-100x

Start at: 2019-01-18 05:33:13
End at: 2019-01-18 05:33:43
Local clock offset: -0.129 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2019-01-18 08:53:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 228.23 Mbit/s
95th percentile per-packet one-way delay: 57.598 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 228.23 Mbit/s
95th percentile per-packet one-way delay: 57.598 ms
Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-01-18 06:06:25

End at: 2019-01-18 06:06:55

Local clock offset: -0.41 ms

Remote clock offset: -0.106 ms

Below is generated by plot.py at 2019-01-18 08:53:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 243.13 Mbit/s

95th percentile per-packet one-way delay: 58.727 ms

Loss rate: 0.00%

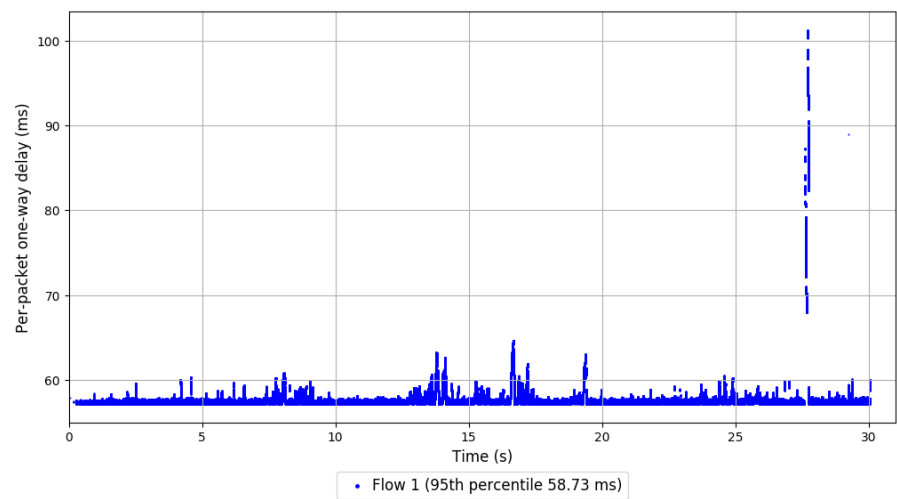
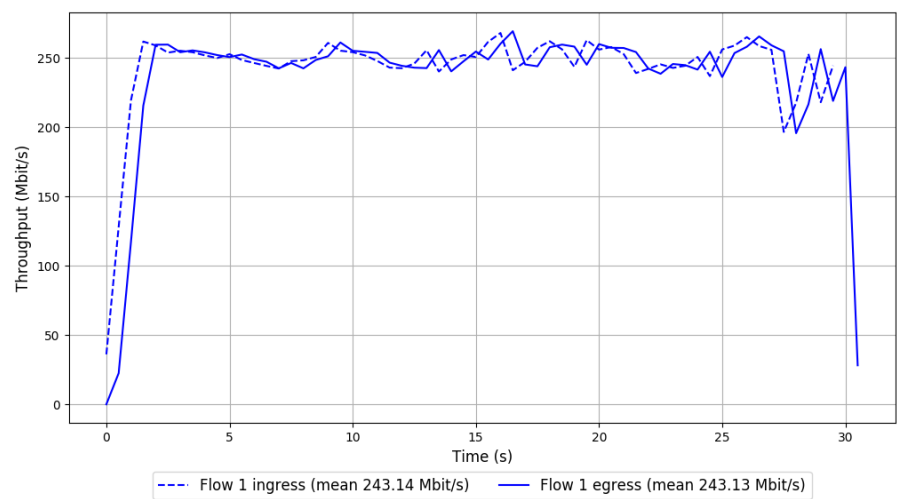
-- Flow 1:

Average throughput: 243.13 Mbit/s

95th percentile per-packet one-way delay: 58.727 ms

Loss rate: 0.00%

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

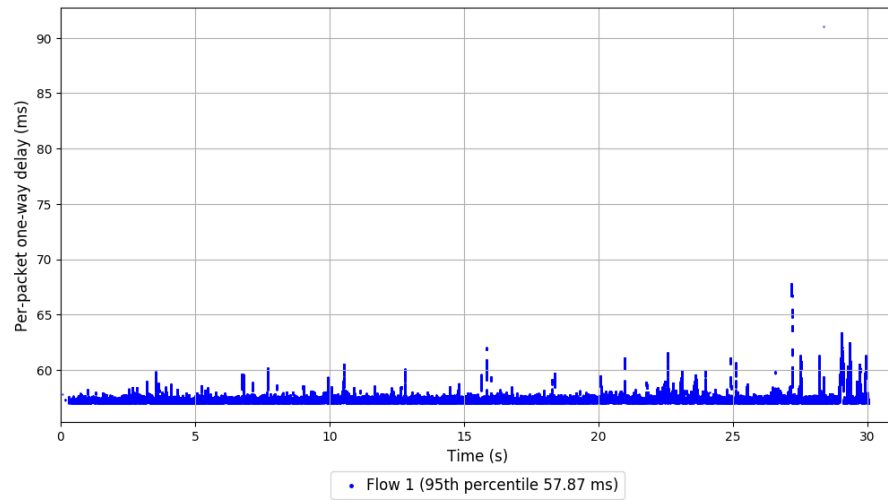
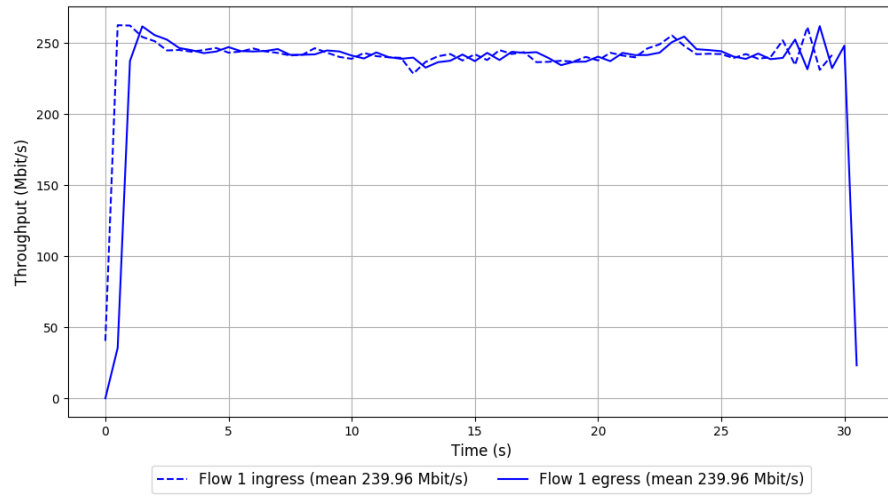


Run 5: Statistics of TaoVA-100x

Start at: 2019-01-18 06:38:45
End at: 2019-01-18 06:39:15
Local clock offset: -0.161 ms
Remote clock offset: -0.098 ms

Below is generated by plot.py at 2019-01-18 08:53:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 239.96 Mbit/s
95th percentile per-packet one-way delay: 57.870 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 239.96 Mbit/s
95th percentile per-packet one-way delay: 57.870 ms
Loss rate: 0.00%

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

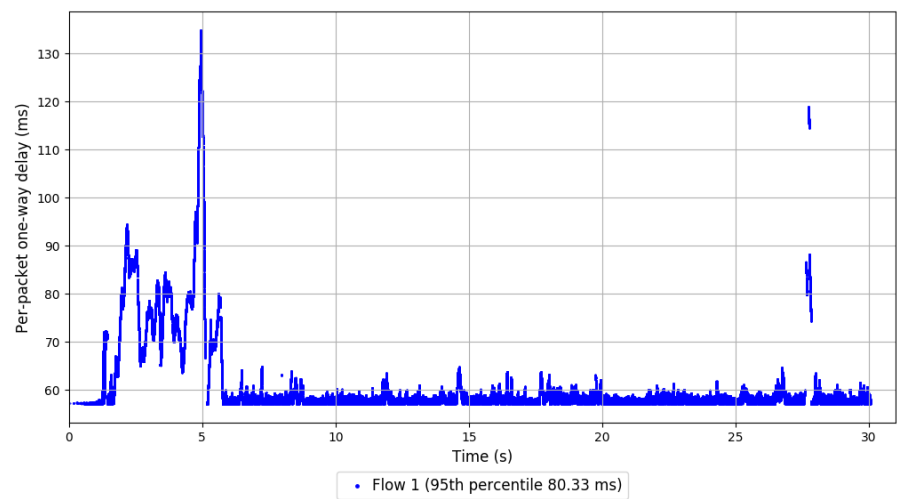
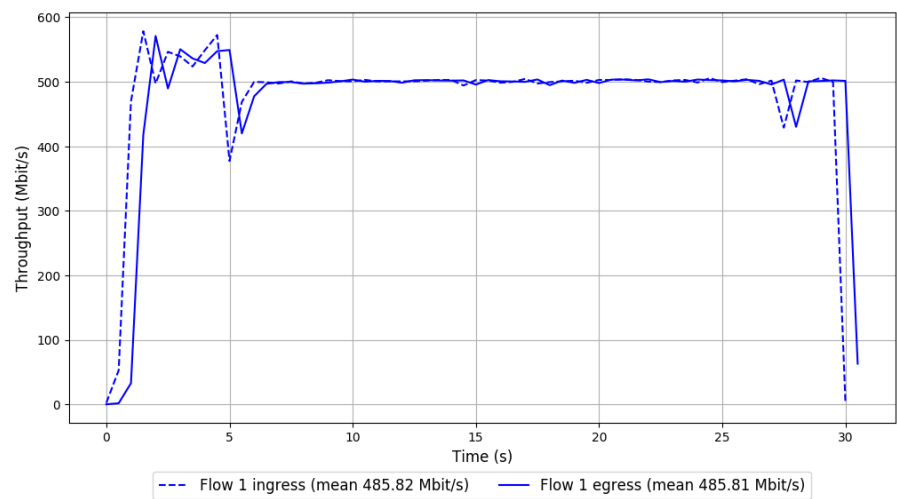


Run 1: Statistics of TCP Vegas

Start at: 2019-01-18 04:28:11
End at: 2019-01-18 04:28:41
Local clock offset: -0.282 ms
Remote clock offset: -0.086 ms

Below is generated by plot.py at 2019-01-18 08:55:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 485.81 Mbit/s
95th percentile per-packet one-way delay: 80.332 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 485.81 Mbit/s
95th percentile per-packet one-way delay: 80.332 ms
Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-01-18 04:59:35

End at: 2019-01-18 05:00:05

Local clock offset: 0.098 ms

Remote clock offset: 1.317 ms

Below is generated by plot.py at 2019-01-18 08:58:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 408.26 Mbit/s

95th percentile per-packet one-way delay: 126.982 ms

Loss rate: 0.01%

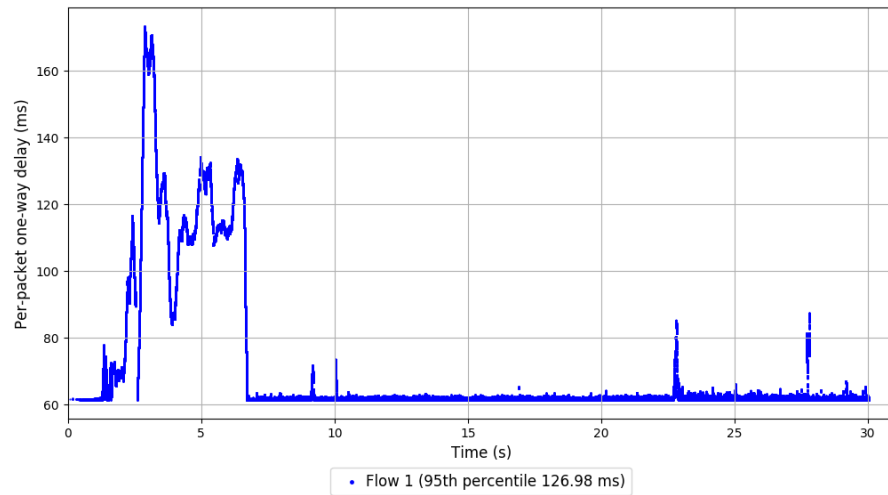
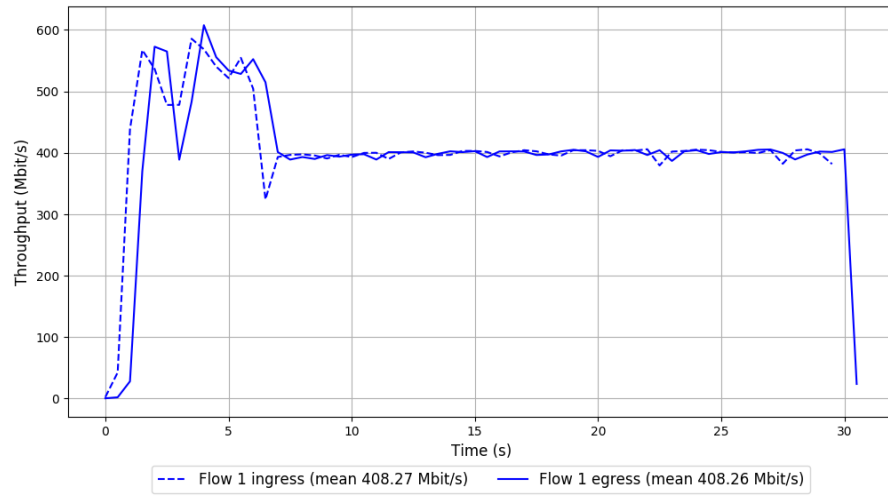
-- Flow 1:

Average throughput: 408.26 Mbit/s

95th percentile per-packet one-way delay: 126.982 ms

Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-01-18 05:31:50

End at: 2019-01-18 05:32:20

Local clock offset: -0.16 ms

Remote clock offset: 0.078 ms

Below is generated by plot.py at 2019-01-18 08:58:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.99 Mbit/s

95th percentile per-packet one-way delay: 70.953 ms

Loss rate: 0.00%

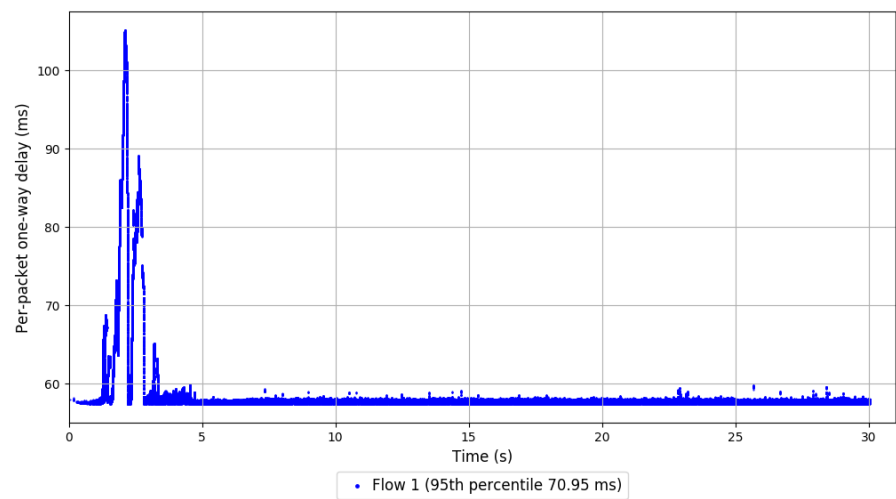
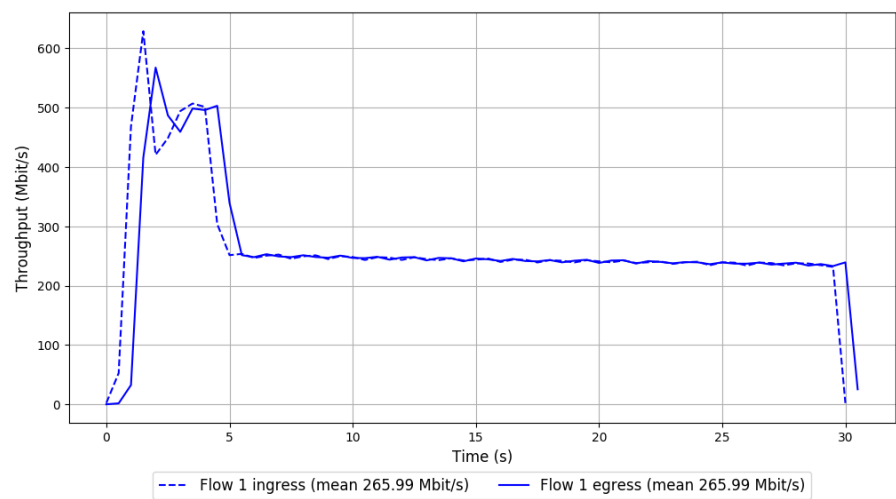
-- Flow 1:

Average throughput: 265.99 Mbit/s

95th percentile per-packet one-way delay: 70.953 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link

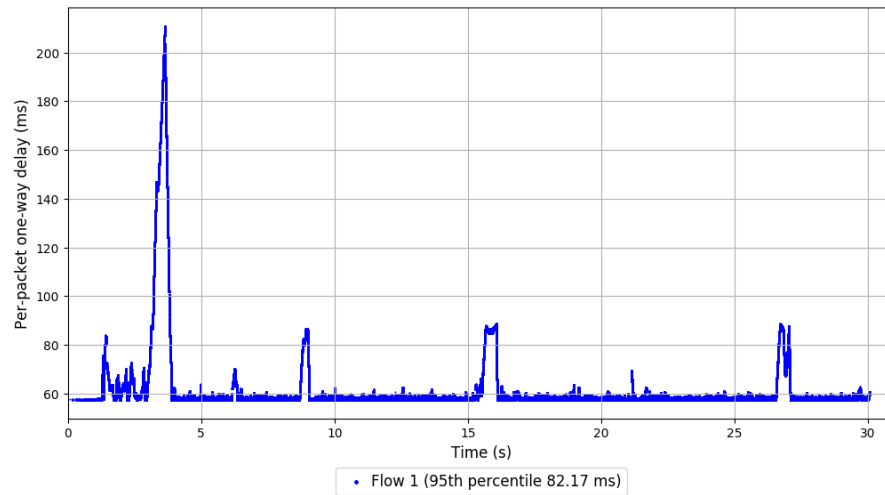
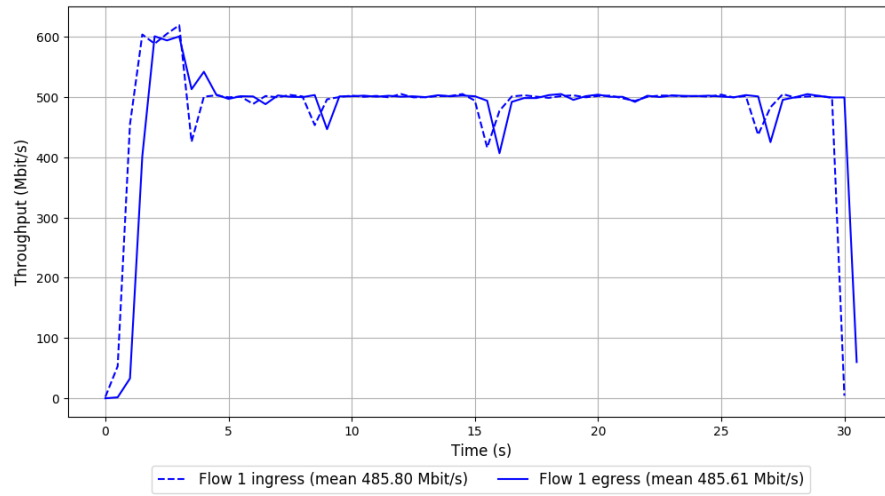


Run 4: Statistics of TCP Vegas

Start at: 2019-01-18 06:04:45
End at: 2019-01-18 06:05:15
Local clock offset: -0.539 ms
Remote clock offset: -0.088 ms

Below is generated by plot.py at 2019-01-18 09:02:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 485.61 Mbit/s
95th percentile per-packet one-way delay: 82.171 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 485.61 Mbit/s
95th percentile per-packet one-way delay: 82.171 ms
Loss rate: 0.04%

Run 4: Report of TCP Vegas — Data Link

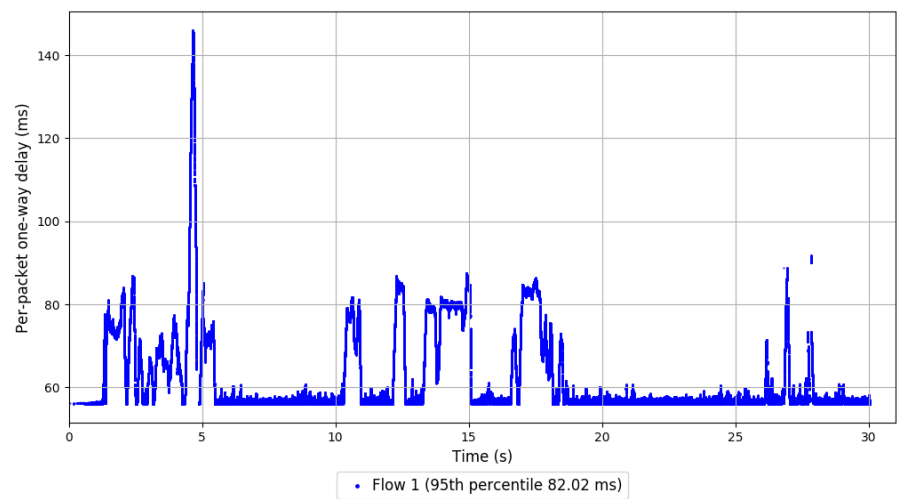
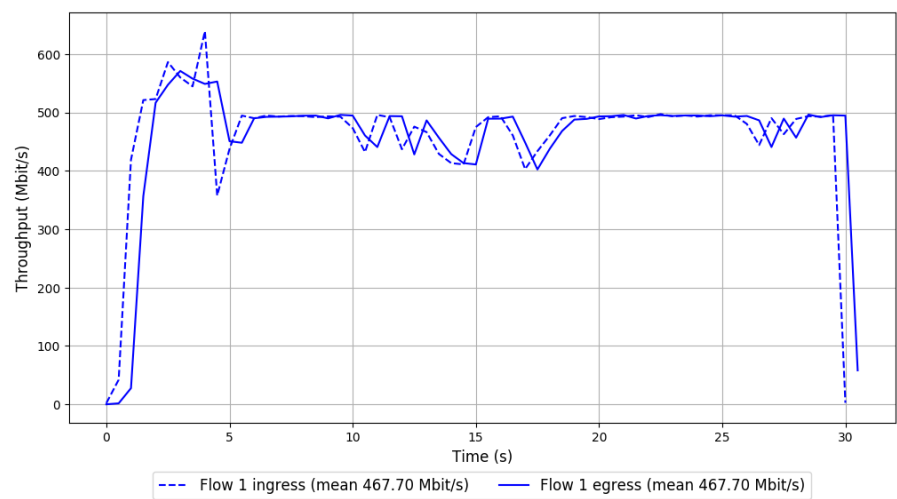


Run 5: Statistics of TCP Vegas

Start at: 2019-01-18 06:37:13
End at: 2019-01-18 06:37:43
Local clock offset: -0.384 ms
Remote clock offset: -1.465 ms

Below is generated by plot.py at 2019-01-18 09:02:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 467.70 Mbit/s
95th percentile per-packet one-way delay: 82.017 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 467.70 Mbit/s
95th percentile per-packet one-way delay: 82.017 ms
Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link

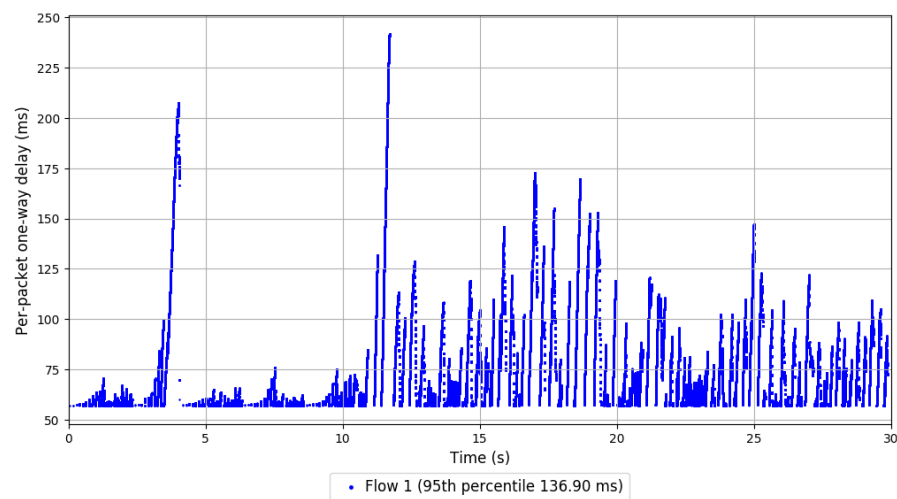
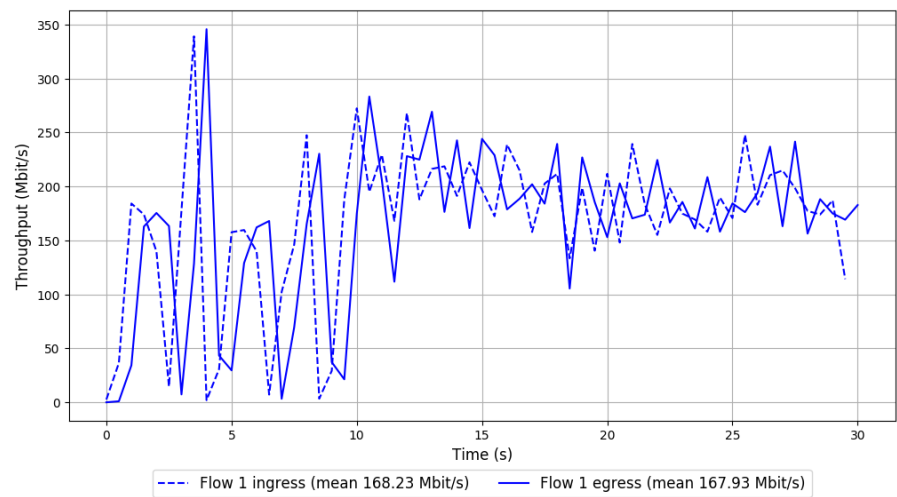


Run 1: Statistics of Verus

Start at: 2019-01-18 04:31:13
End at: 2019-01-18 04:31:44
Local clock offset: -0.172 ms
Remote clock offset: -0.153 ms

Below is generated by plot.py at 2019-01-18 09:02:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 167.93 Mbit/s
95th percentile per-packet one-way delay: 136.895 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 167.93 Mbit/s
95th percentile per-packet one-way delay: 136.895 ms
Loss rate: 0.13%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-01-18 05:02:49

End at: 2019-01-18 05:03:19

Local clock offset: -0.13 ms

Remote clock offset: 1.295 ms

Below is generated by plot.py at 2019-01-18 09:02:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.92 Mbit/s

95th percentile per-packet one-way delay: 208.720 ms

Loss rate: 1.57%

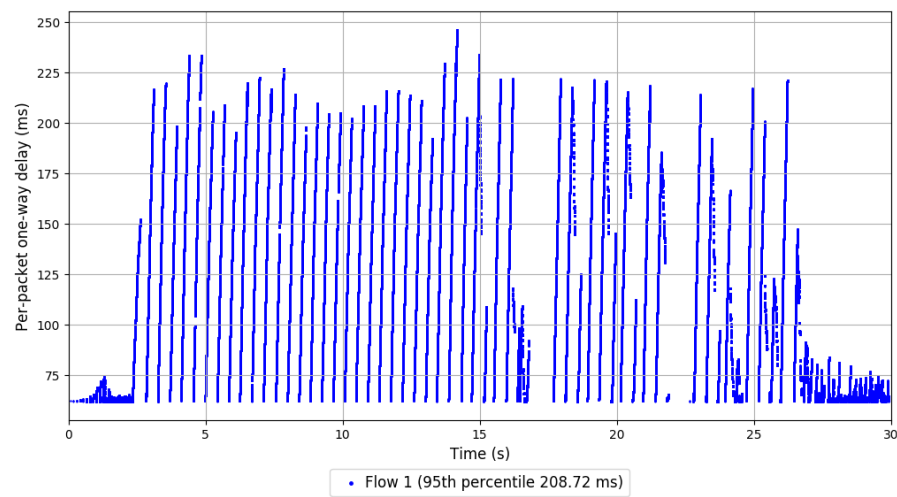
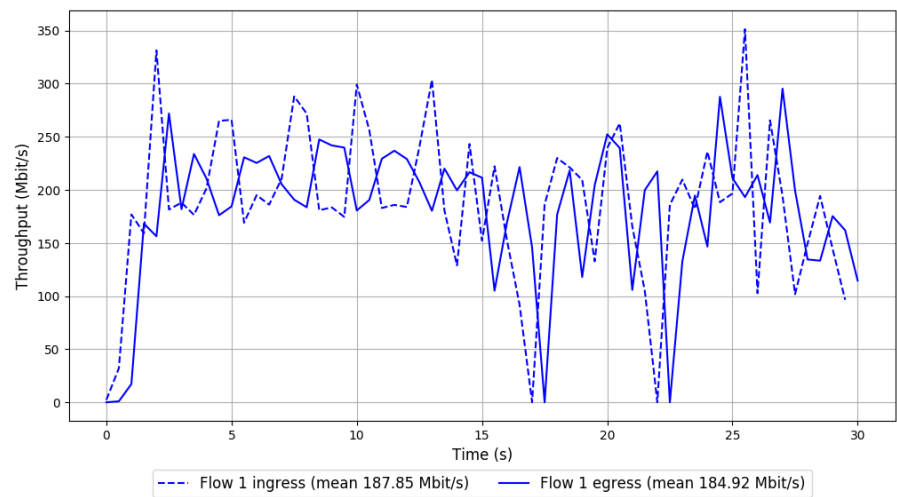
-- Flow 1:

Average throughput: 184.92 Mbit/s

95th percentile per-packet one-way delay: 208.720 ms

Loss rate: 1.57%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-01-18 05:34:44

End at: 2019-01-18 05:35:14

Local clock offset: -0.135 ms

Remote clock offset: 0.622 ms

Below is generated by plot.py at 2019-01-18 09:02:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.57 Mbit/s

95th percentile per-packet one-way delay: 184.833 ms

Loss rate: 0.81%

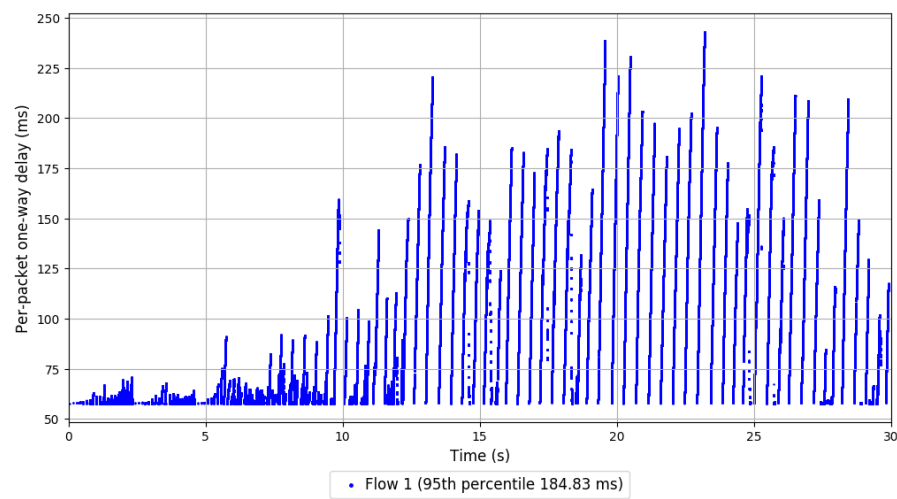
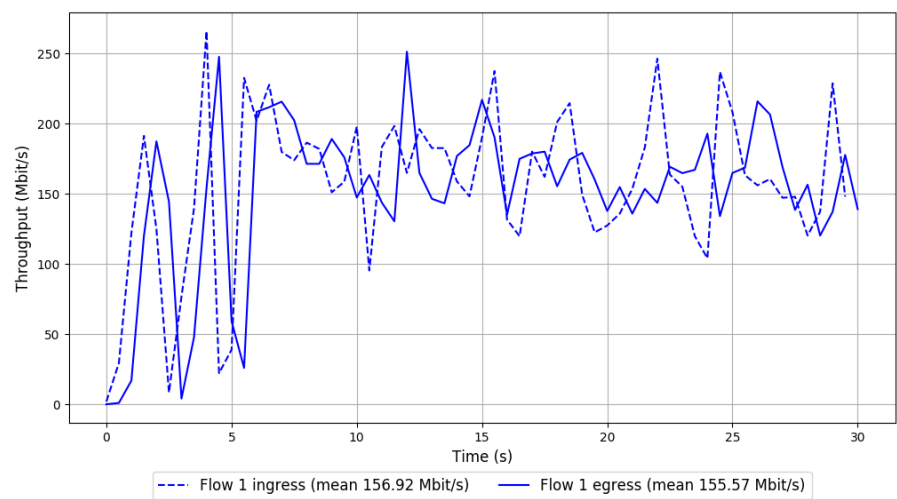
-- Flow 1:

Average throughput: 155.57 Mbit/s

95th percentile per-packet one-way delay: 184.833 ms

Loss rate: 0.81%

Run 3: Report of Verus — Data Link

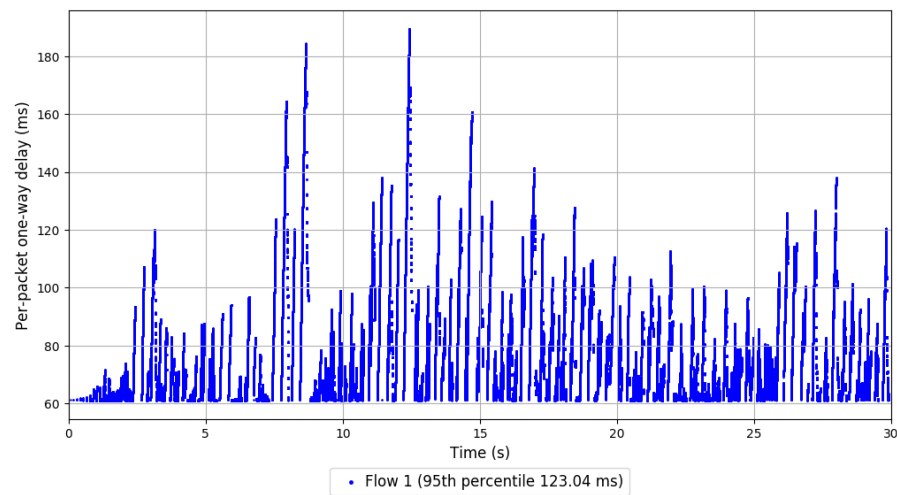
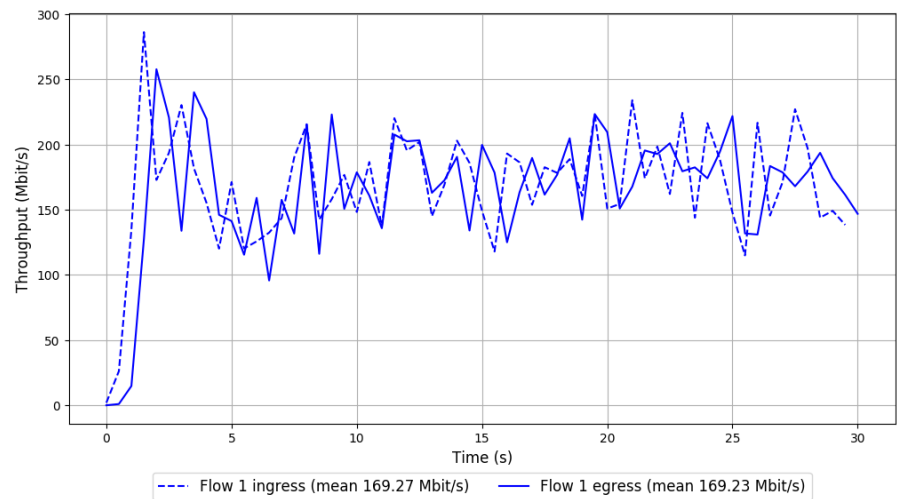


Run 4: Statistics of Verus

Start at: 2019-01-18 06:08:03
End at: 2019-01-18 06:08:33
Local clock offset: -0.267 ms
Remote clock offset: 0.541 ms

Below is generated by plot.py at 2019-01-18 09:02:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 169.23 Mbit/s
95th percentile per-packet one-way delay: 123.037 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 169.23 Mbit/s
95th percentile per-packet one-way delay: 123.037 ms
Loss rate: 0.04%

Run 4: Report of Verus — Data Link

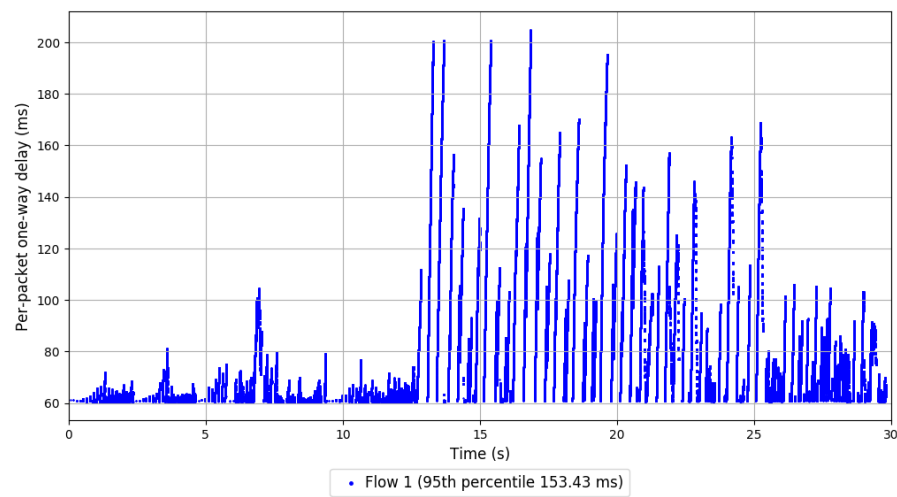
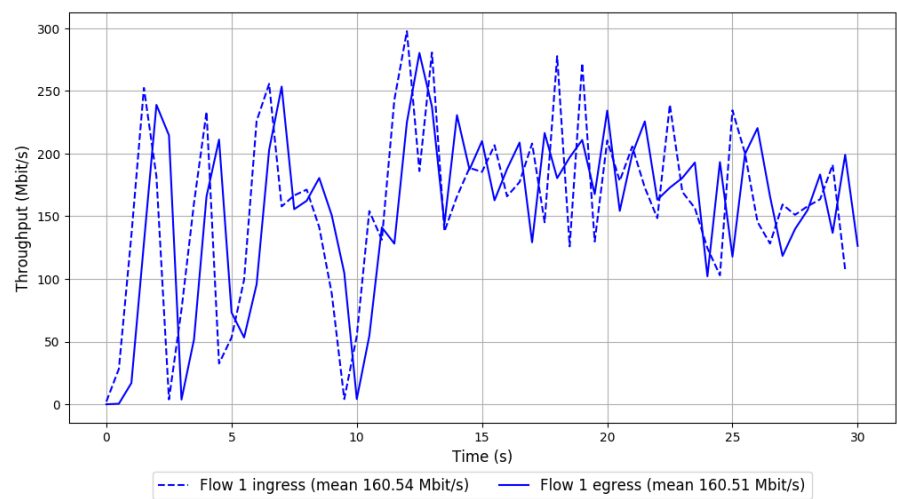


Run 5: Statistics of Verus

Start at: 2019-01-18 06:40:15
End at: 2019-01-18 06:40:45
Local clock offset: -0.401 ms
Remote clock offset: -0.152 ms

Below is generated by plot.py at 2019-01-18 09:02:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 160.51 Mbit/s
95th percentile per-packet one-way delay: 153.427 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 160.51 Mbit/s
95th percentile per-packet one-way delay: 153.427 ms
Loss rate: 0.01%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-01-18 04:19:02

End at: 2019-01-18 04:19:32

Local clock offset: 0.175 ms

Remote clock offset: -0.685 ms

Below is generated by plot.py at 2019-01-18 09:03:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 285.01 Mbit/s

95th percentile per-packet one-way delay: 59.937 ms

Loss rate: 0.01%

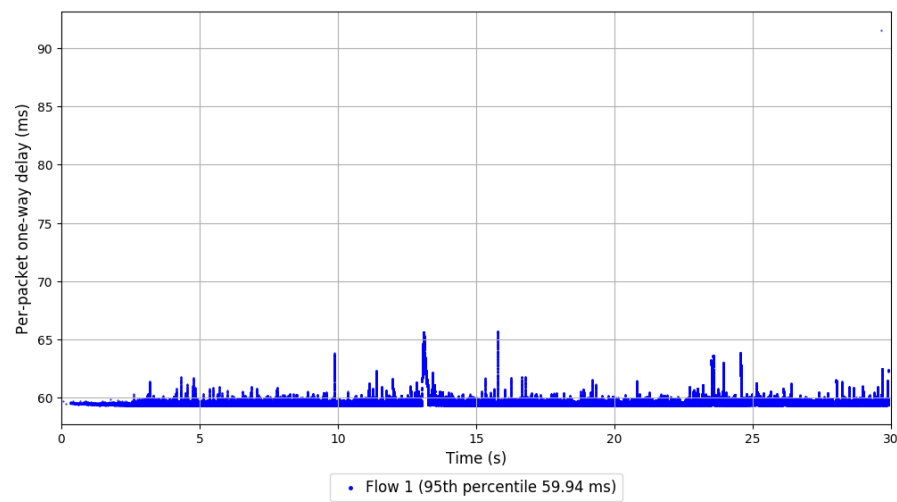
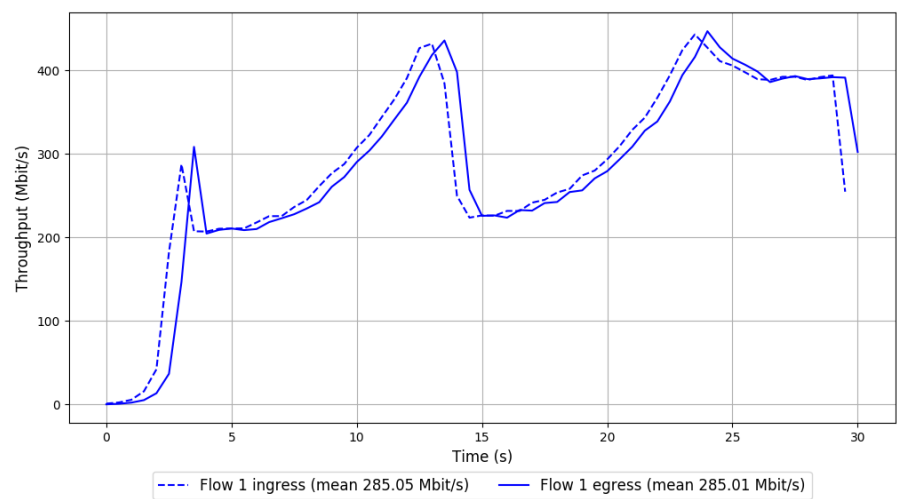
-- Flow 1:

Average throughput: 285.01 Mbit/s

95th percentile per-packet one-way delay: 59.937 ms

Loss rate: 0.01%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-01-18 04:50:27

End at: 2019-01-18 04:50:57

Local clock offset: -0.356 ms

Remote clock offset: 0.735 ms

Below is generated by plot.py at 2019-01-18 09:04:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 350.96 Mbit/s

95th percentile per-packet one-way delay: 107.338 ms

Loss rate: 0.00%

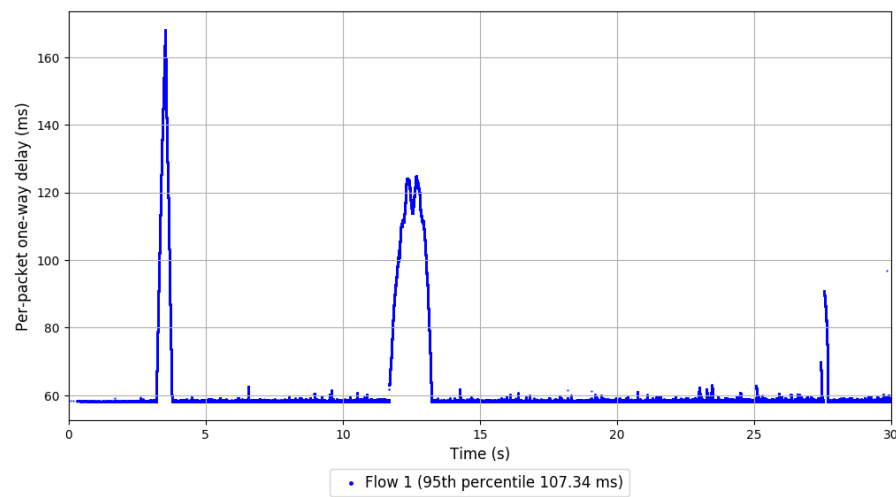
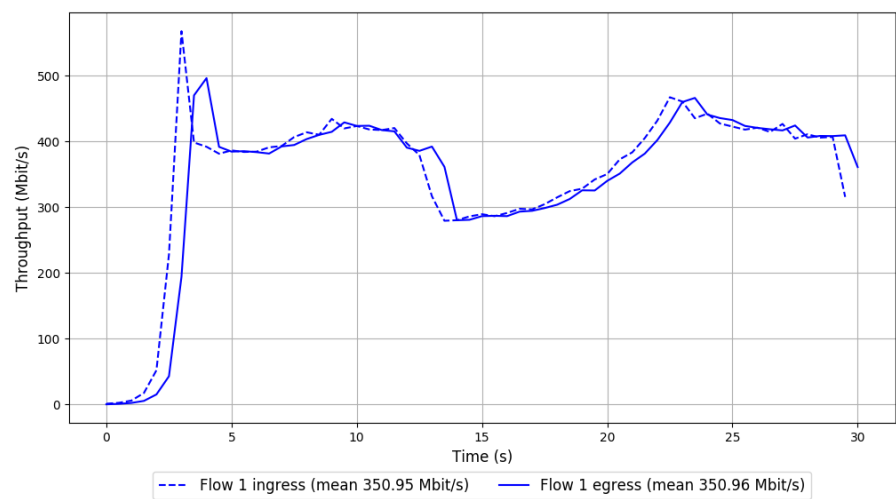
-- Flow 1:

Average throughput: 350.96 Mbit/s

95th percentile per-packet one-way delay: 107.338 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-01-18 05:22:20

End at: 2019-01-18 05:22:50

Local clock offset: 0.292 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2019-01-18 09:04:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 381.64 Mbit/s

95th percentile per-packet one-way delay: 58.072 ms

Loss rate: 0.00%

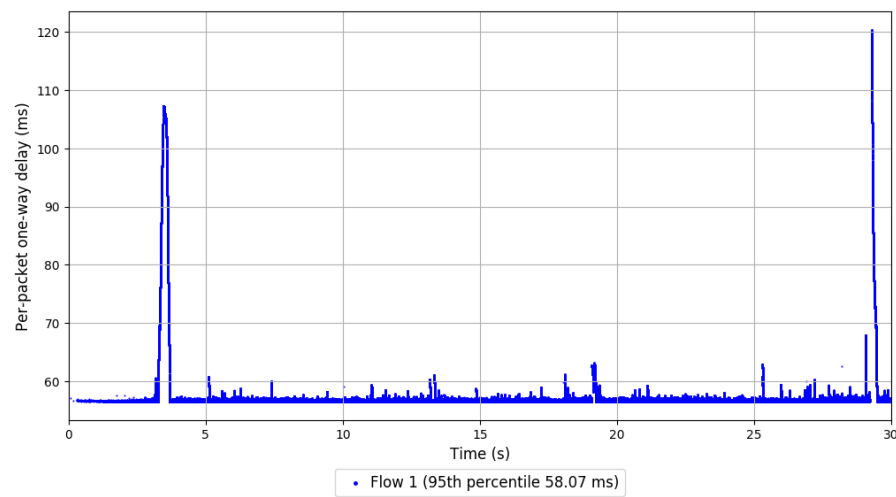
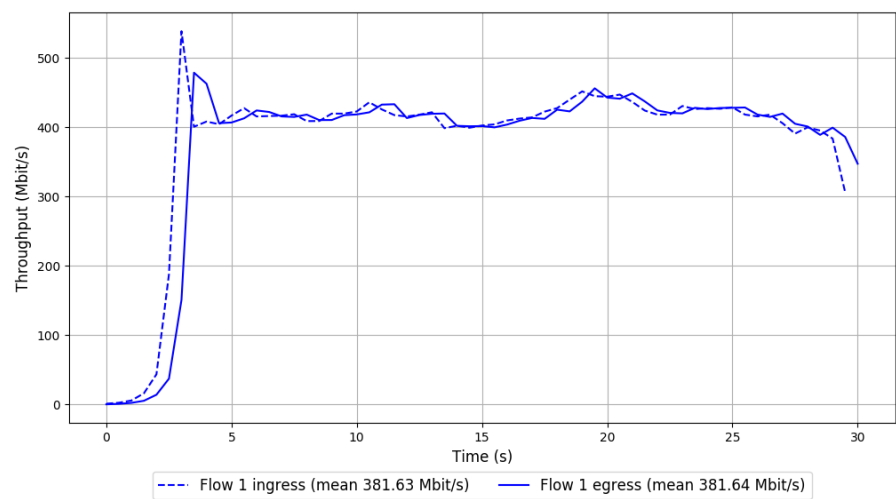
-- Flow 1:

Average throughput: 381.64 Mbit/s

95th percentile per-packet one-way delay: 58.072 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-01-18 05:54:46

End at: 2019-01-18 05:55:16

Local clock offset: -0.375 ms

Remote clock offset: 0.177 ms

Below is generated by plot.py at 2019-01-18 09:05:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 396.81 Mbit/s

95th percentile per-packet one-way delay: 85.072 ms

Loss rate: 0.00%

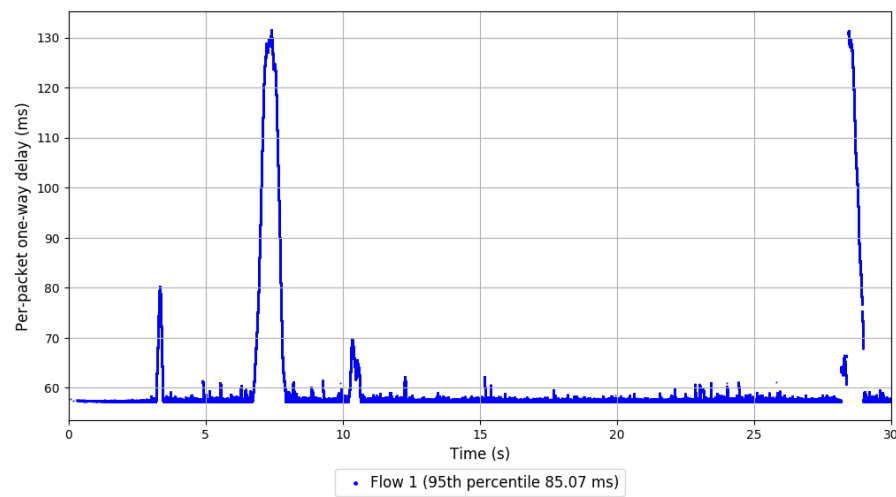
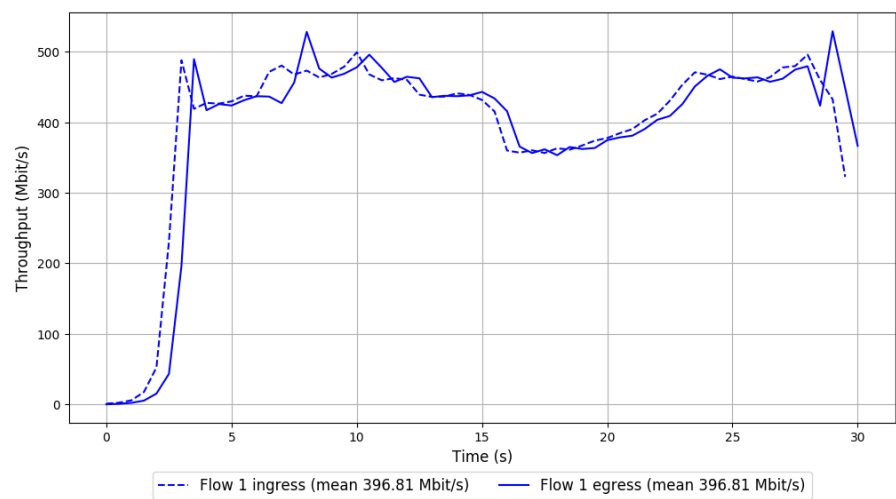
-- Flow 1:

Average throughput: 396.81 Mbit/s

95th percentile per-packet one-way delay: 85.072 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link

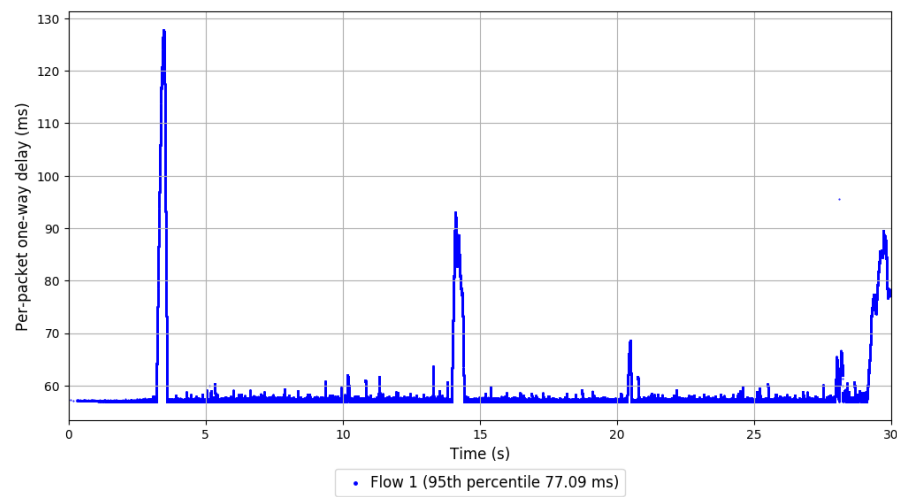
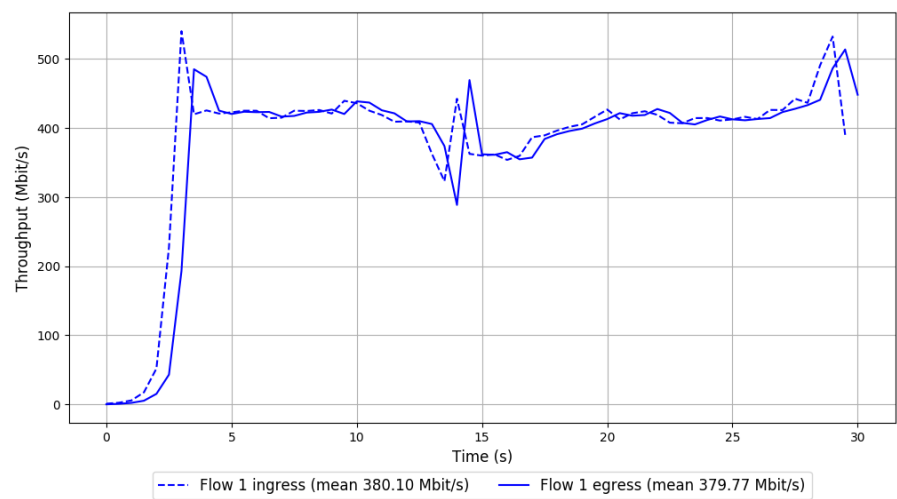


Run 5: Statistics of PCC-Vivace

Start at: 2019-01-18 06:28:05
End at: 2019-01-18 06:28:35
Local clock offset: 0.24 ms
Remote clock offset: -0.079 ms

Below is generated by plot.py at 2019-01-18 09:05:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 379.77 Mbit/s
95th percentile per-packet one-way delay: 77.095 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 379.77 Mbit/s
95th percentile per-packet one-way delay: 77.095 ms
Loss rate: 0.09%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-01-18 04:20:30

End at: 2019-01-18 04:21:00

Local clock offset: -0.35 ms

Remote clock offset: -1.35 ms

Below is generated by plot.py at 2019-01-18 09:05:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 56.325 ms

Loss rate: 0.00%

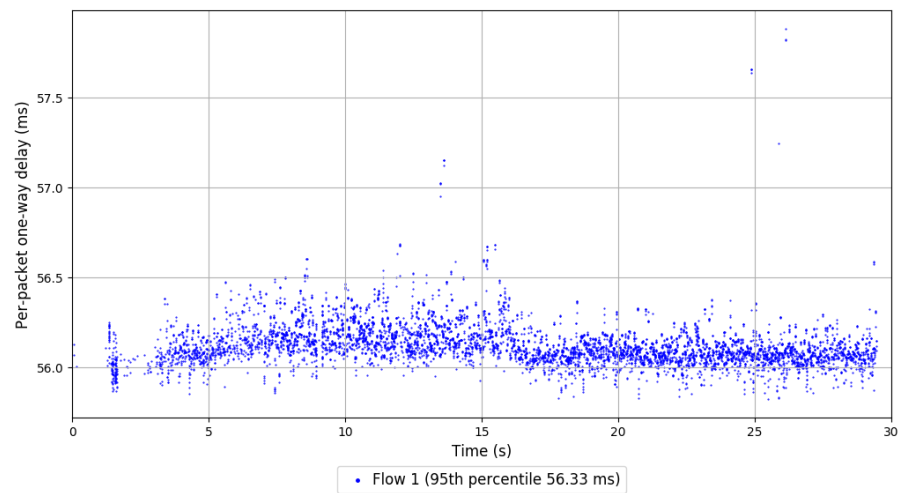
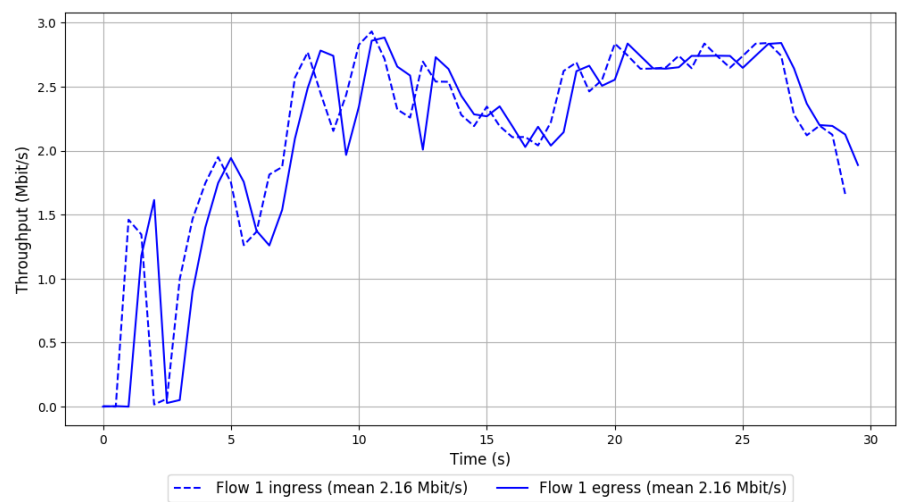
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 56.325 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-01-18 04:52:01

End at: 2019-01-18 04:52:31

Local clock offset: -0.07 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2019-01-18 09:05:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 57.469 ms

Loss rate: 0.00%

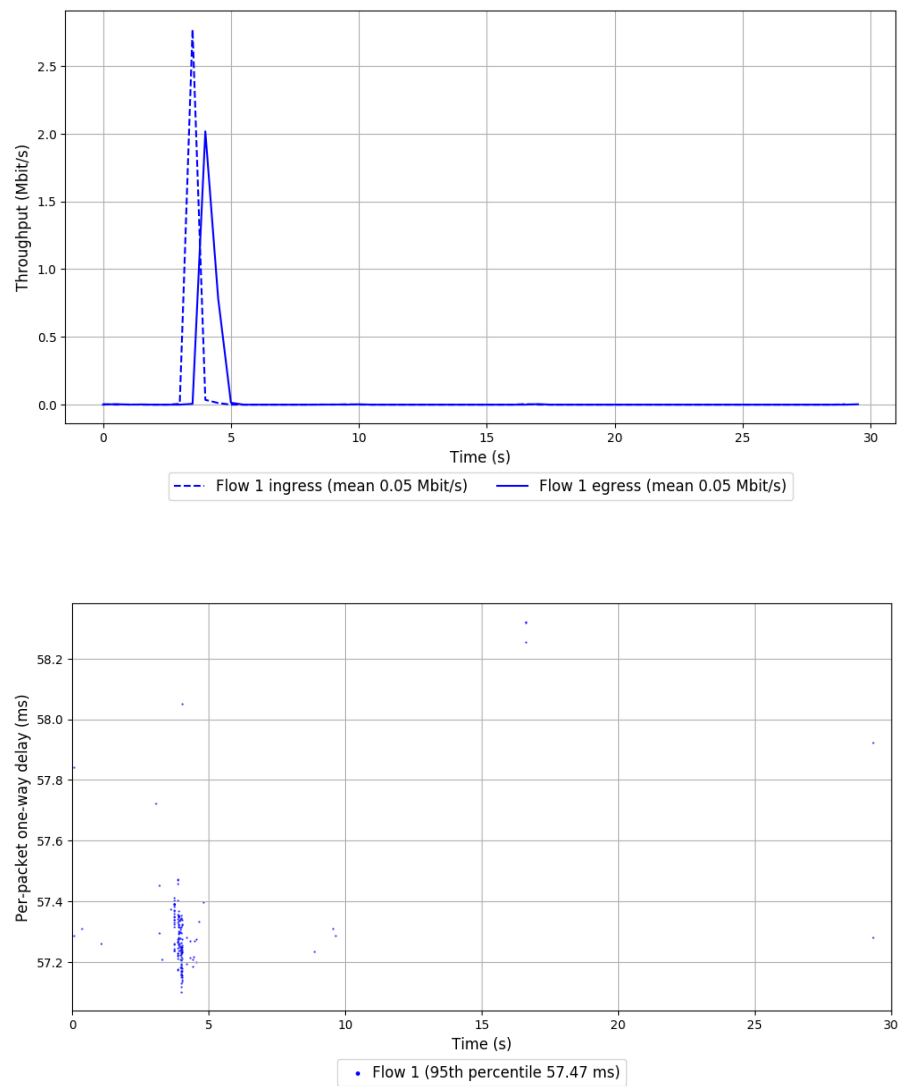
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 57.469 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-01-18 05:23:56

End at: 2019-01-18 05:24:26

Local clock offset: -0.381 ms

Remote clock offset: 0.013 ms

Below is generated by plot.py at 2019-01-18 09:05:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 61.011 ms

Loss rate: 0.00%

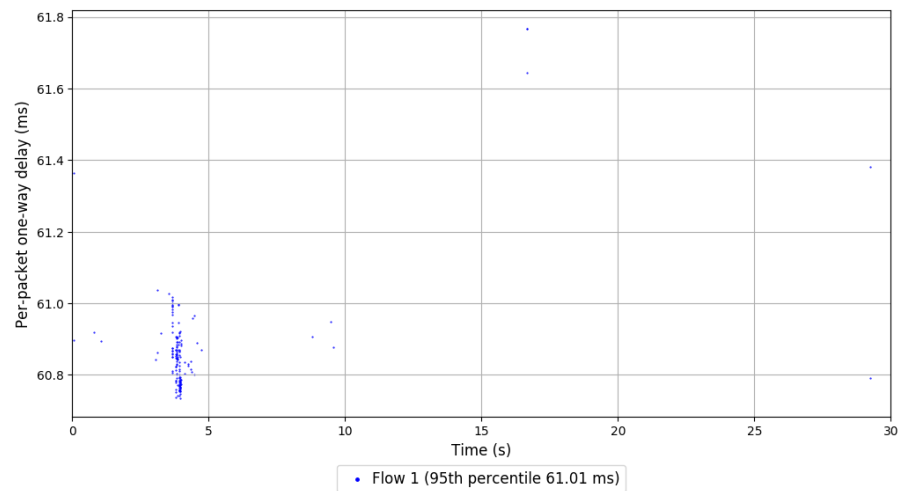
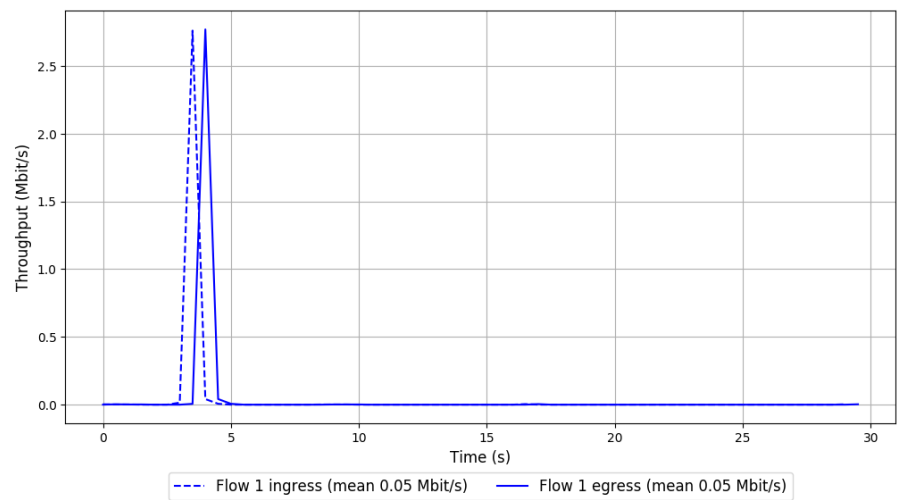
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 61.011 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-01-18 05:56:27

End at: 2019-01-18 05:56:57

Local clock offset: -0.235 ms

Remote clock offset: 0.534 ms

Below is generated by plot.py at 2019-01-18 09:05:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 58.030 ms

Loss rate: 0.00%

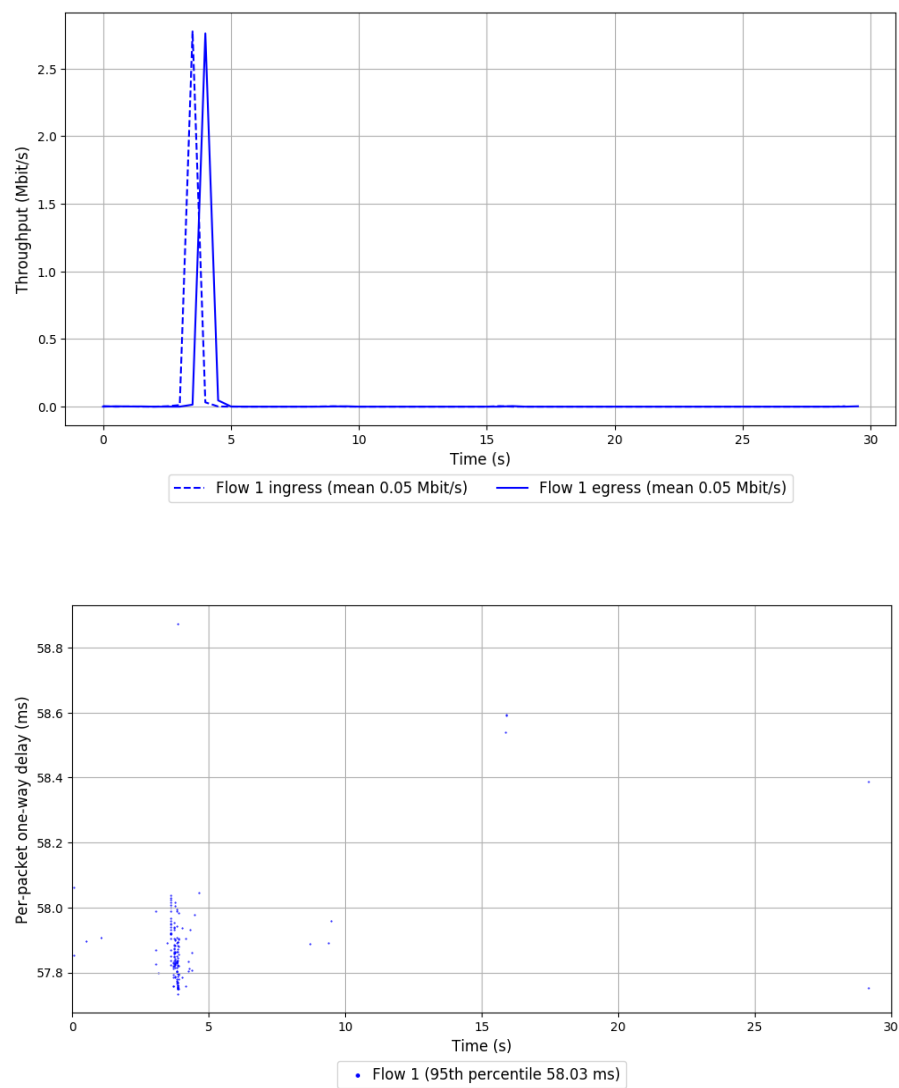
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 58.030 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-01-18 06:29:38
End at: 2019-01-18 06:30:08
Local clock offset: -0.128 ms
Remote clock offset: -0.806 ms

Below is generated by plot.py at 2019-01-18 09:05:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 60.059 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 60.059 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

