

Pantheon Report

Generated at 2018-08-11 20:41:41 (UTC).

Data path: GCE Tokyo Ethernet (*remote*) → GCE Iowa Ethernet (*local*).

Repeated the test of 17 congestion control schemes 10 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.

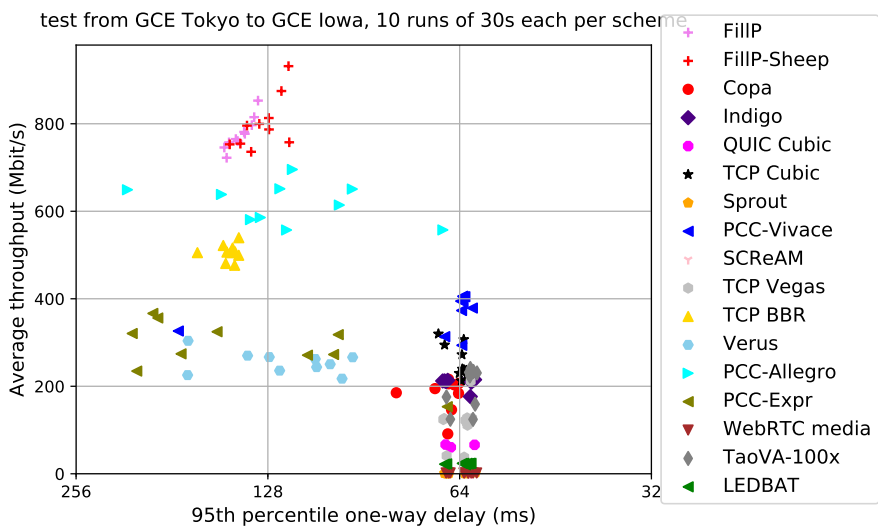
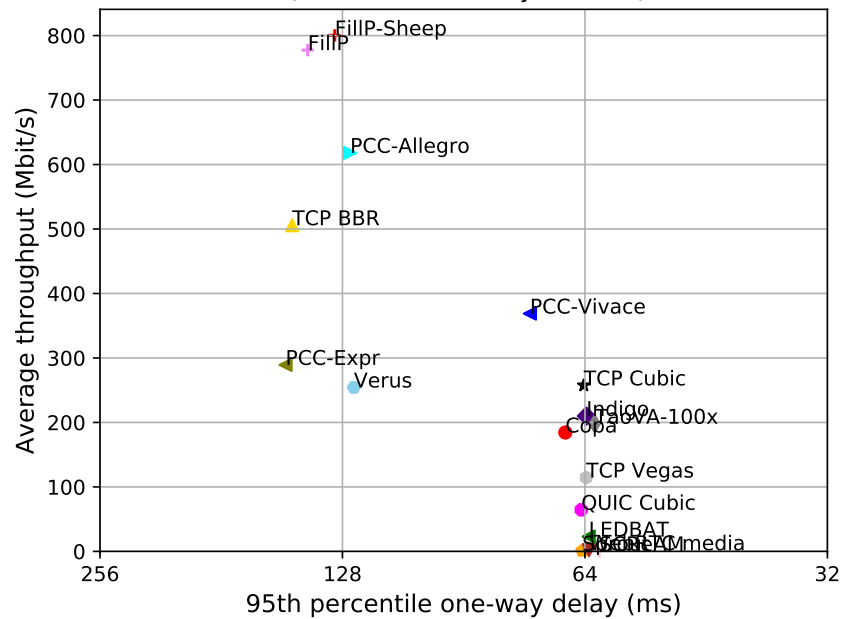
System info:

```
Linux 4.15.0-1014-gcp
net.core.default_qdisc = fq_codel
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: master @ 7719b900495aa706f8452ab7d4a94dd562e9296e
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfef58e562f4
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 Tokyo to GCE Iowa, 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 | 505.87 | 147.77 | 1.52 |
| Copa | 10 | 184.40 | 67.70 | 0.25 |
| TCP Cubic | 10 | 257.43 | 64.22 | 0.58 |
| FillP | 10 | 777.42 | 141.35 | 6.28 |
| FillP-Sheep | 10 | 800.30 | 130.85 | 1.84 |
| Indigo | 10 | 209.99 | 63.75 | 0.42 |
| LEDBAT | 10 | 23.02 | 63.32 | 0.83 |
| PCC-Allegro | 10 | 618.05 | 125.23 | 2.68 |
| PCC-Expr | 10 | 289.18 | 150.64 | 3.24 |
| QUIC Cubic | 3 | 64.48 | 64.68 | 0.58 |
| SCReAM | 10 | 0.22 | 61.47 | 0.45 |
| Sprout | 10 | 1.03 | 64.51 | 0.37 |
| TaoVA-100x | 10 | 197.94 | 62.23 | 0.36 |
| TCP Vegas | 10 | 114.51 | 63.78 | 0.44 |
| Verus | 10 | 254.21 | 123.91 | 1.24 |
| PCC-Vivace | 10 | 368.81 | 74.90 | 0.58 |
| WebRTC media | 10 | 1.85 | 63.26 | 0.47 |

Run 1: Statistics of TCP BBR

Start at: 2018-08-11 14:39:23

End at: 2018-08-11 14:39:53

Local clock offset: -0.376 ms

Remote clock offset: -0.814 ms

Below is generated by plot.py at 2018-08-11 18:46:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 476.62 Mbit/s

95th percentile per-packet one-way delay: 144.323 ms

Loss rate: 1.21%

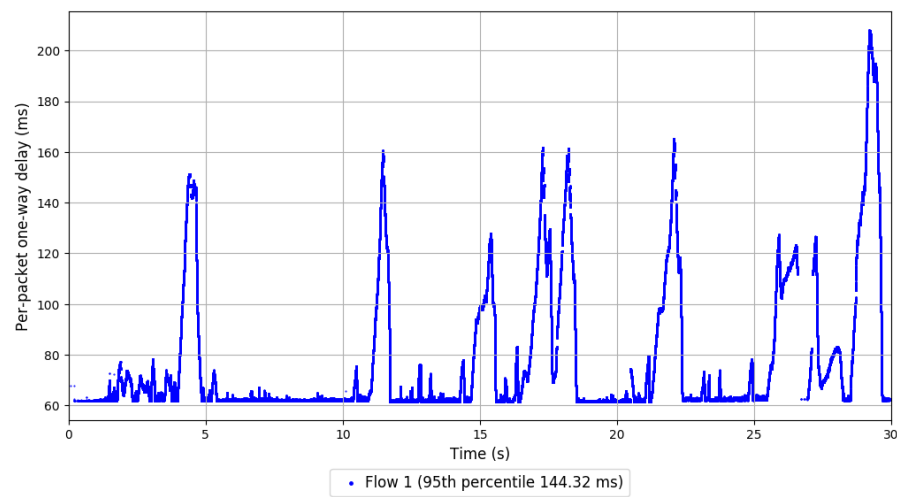
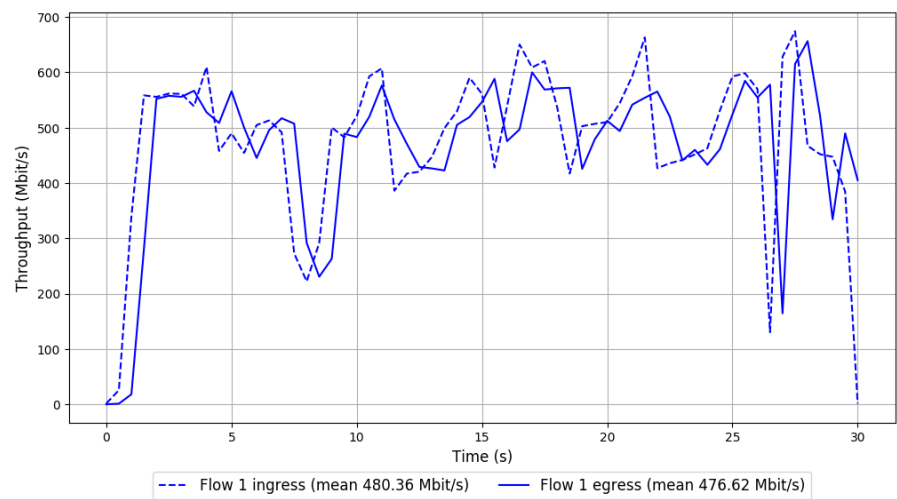
-- Flow 1:

Average throughput: 476.62 Mbit/s

95th percentile per-packet one-way delay: 144.323 ms

Loss rate: 1.21%

Run 1: Report of TCP BBR — Data Link

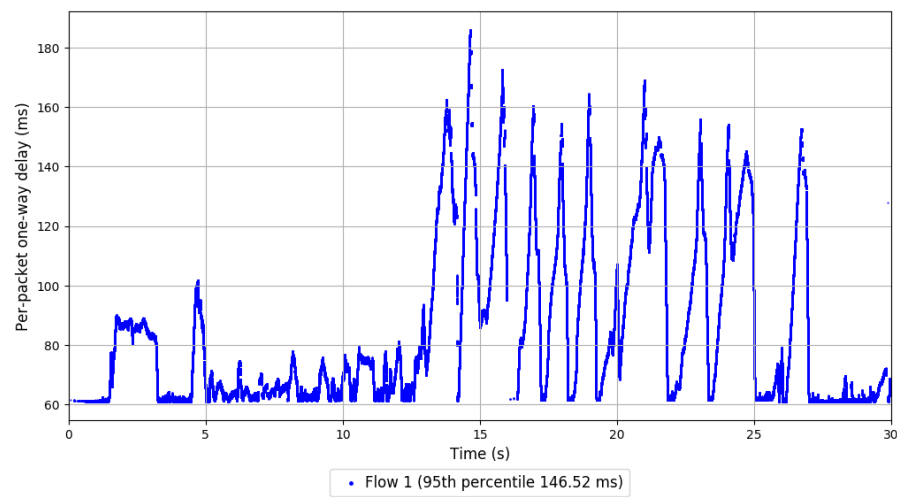
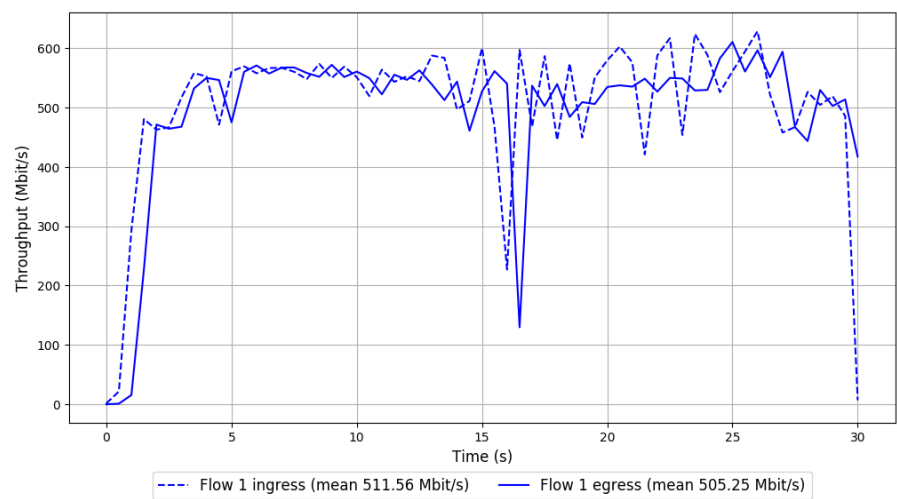


Run 2: Statistics of TCP BBR

Start at: 2018-08-11 15:02:09
End at: 2018-08-11 15:02:39
Local clock offset: -0.464 ms
Remote clock offset: -0.217 ms

Below is generated by plot.py at 2018-08-11 18:46:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 505.25 Mbit/s
95th percentile per-packet one-way delay: 146.523 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 505.25 Mbit/s
95th percentile per-packet one-way delay: 146.523 ms
Loss rate: 1.66%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-08-11 15:24:57

End at: 2018-08-11 15:25:27

Local clock offset: -0.5 ms

Remote clock offset: -1.239 ms

Below is generated by plot.py at 2018-08-11 18:46:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 521.78 Mbit/s

95th percentile per-packet one-way delay: 150.384 ms

Loss rate: 2.00%

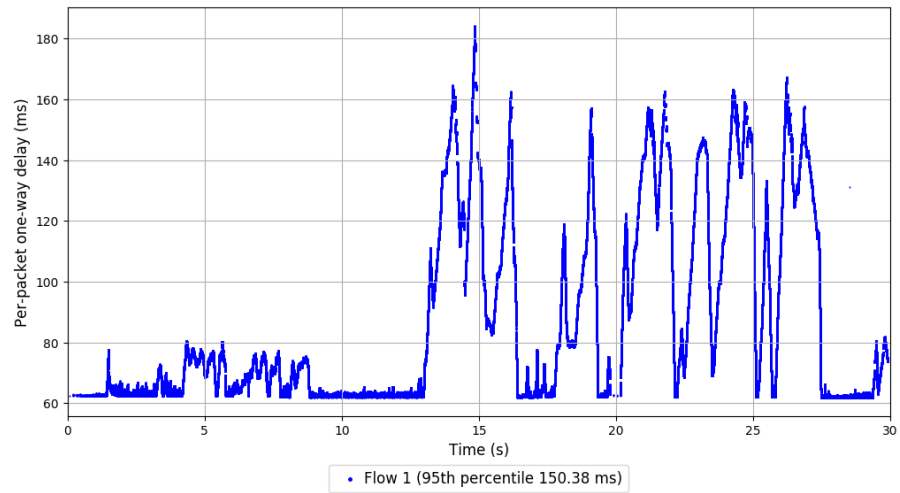
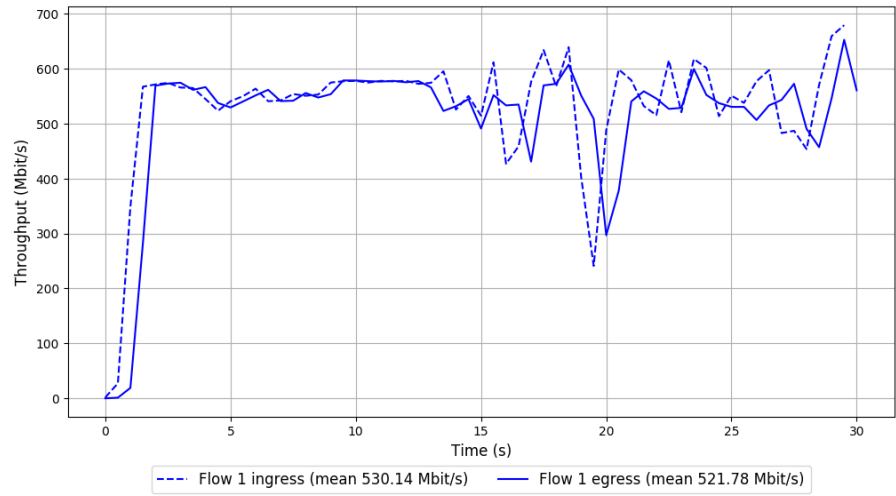
-- Flow 1:

Average throughput: 521.78 Mbit/s

95th percentile per-packet one-way delay: 150.384 ms

Loss rate: 2.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-08-11 15:47:57

End at: 2018-08-11 15:48:27

Local clock offset: -0.495 ms

Remote clock offset: -0.52 ms

Below is generated by plot.py at 2018-08-11 18:46:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 507.31 Mbit/s

95th percentile per-packet one-way delay: 144.134 ms

Loss rate: 1.28%

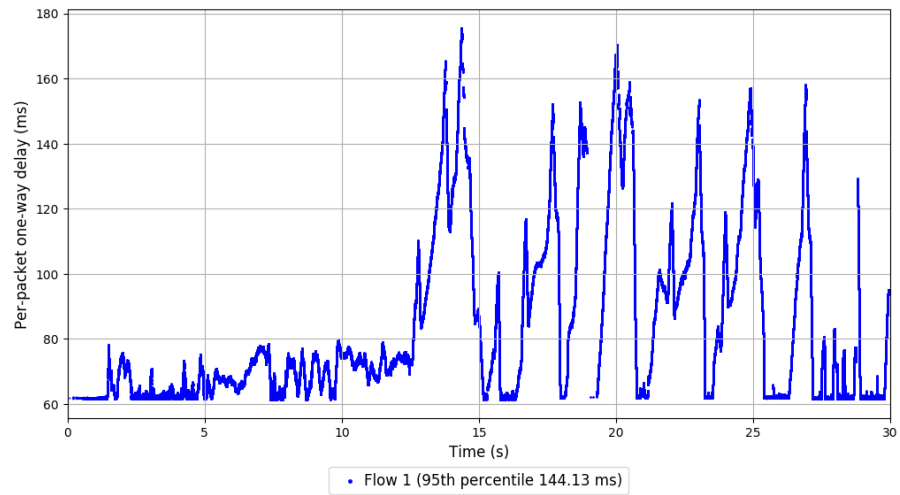
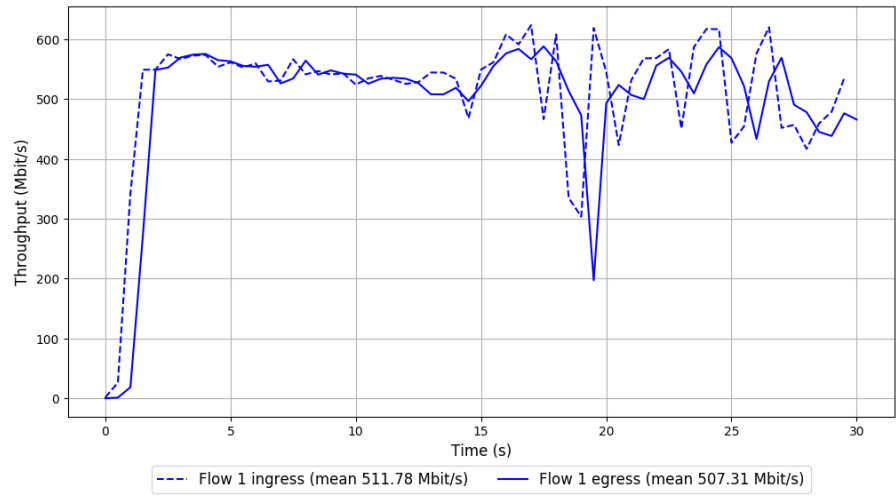
-- Flow 1:

Average throughput: 507.31 Mbit/s

95th percentile per-packet one-way delay: 144.134 ms

Loss rate: 1.28%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-08-11 16:10:10

End at: 2018-08-11 16:10:40

Local clock offset: -0.644 ms

Remote clock offset: 0.962 ms

Below is generated by plot.py at 2018-08-11 18:46:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 499.42 Mbit/s

95th percentile per-packet one-way delay: 142.218 ms

Loss rate: 1.43%

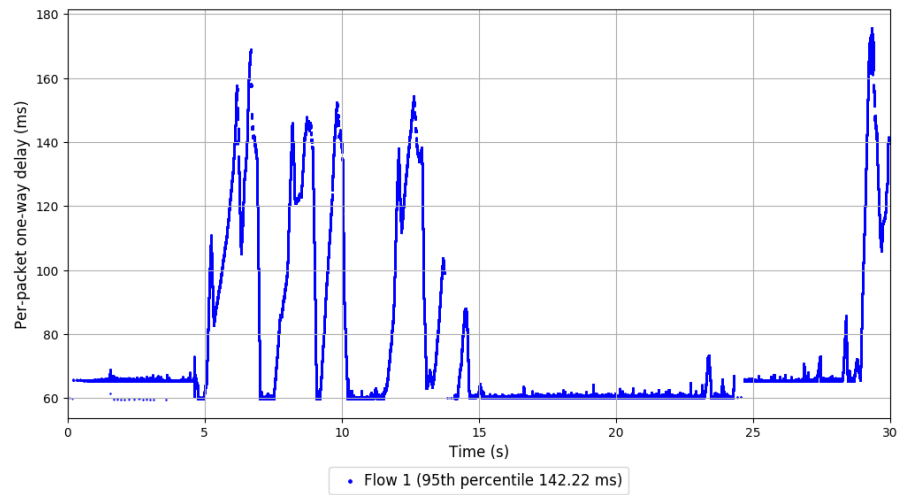
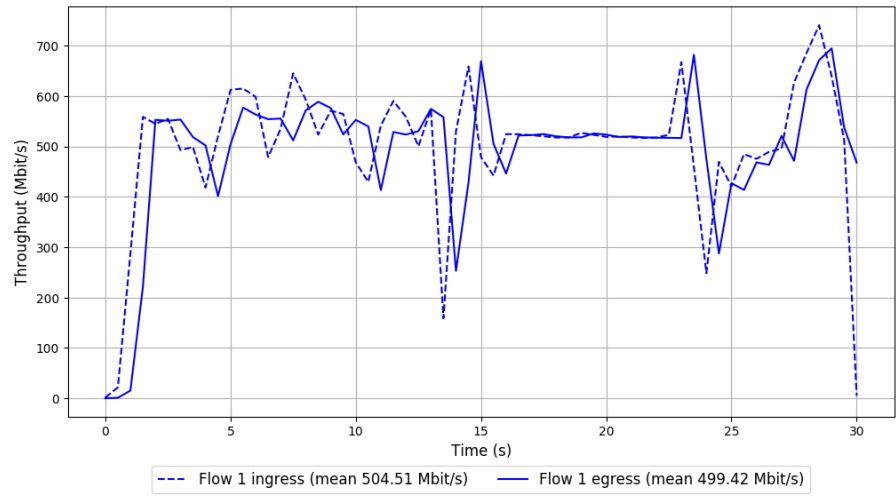
-- Flow 1:

Average throughput: 499.42 Mbit/s

95th percentile per-packet one-way delay: 142.218 ms

Loss rate: 1.43%

Run 5: Report of TCP BBR — Data Link

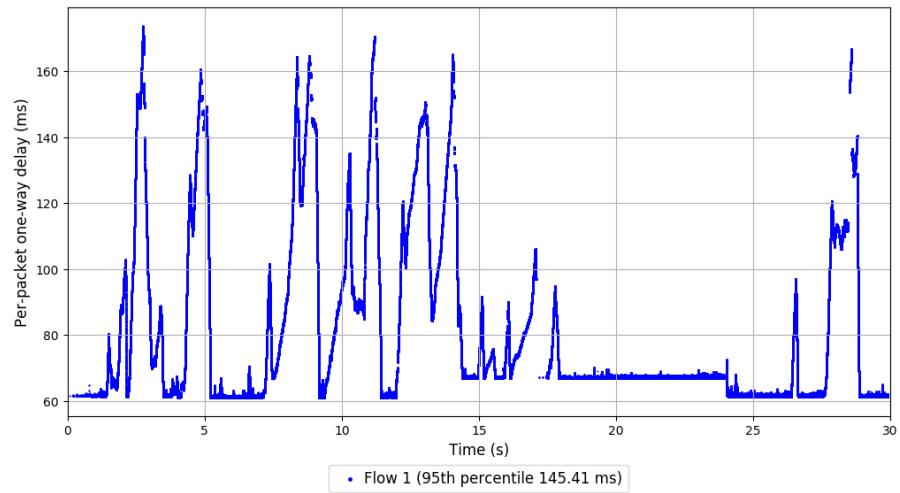
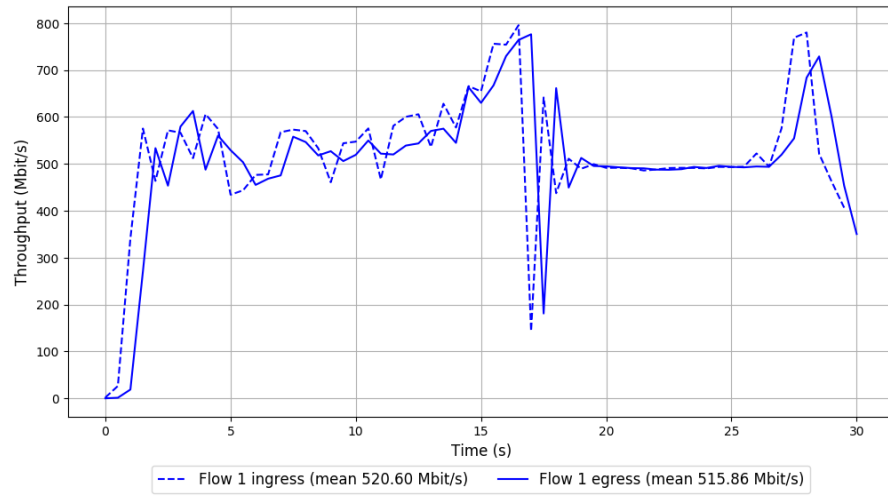


Run 6: Statistics of TCP BBR

Start at: 2018-08-11 16:32:31
End at: 2018-08-11 16:33:01
Local clock offset: -0.656 ms
Remote clock offset: -0.249 ms

Below is generated by plot.py at 2018-08-11 18:46:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 515.86 Mbit/s
95th percentile per-packet one-way delay: 145.414 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 515.86 Mbit/s
95th percentile per-packet one-way delay: 145.414 ms
Loss rate: 1.32%

Run 6: Report of TCP BBR — Data Link

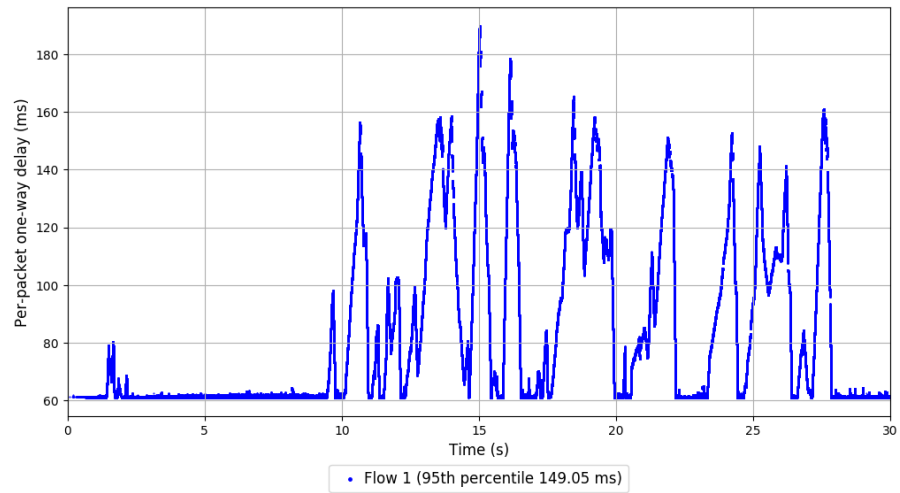
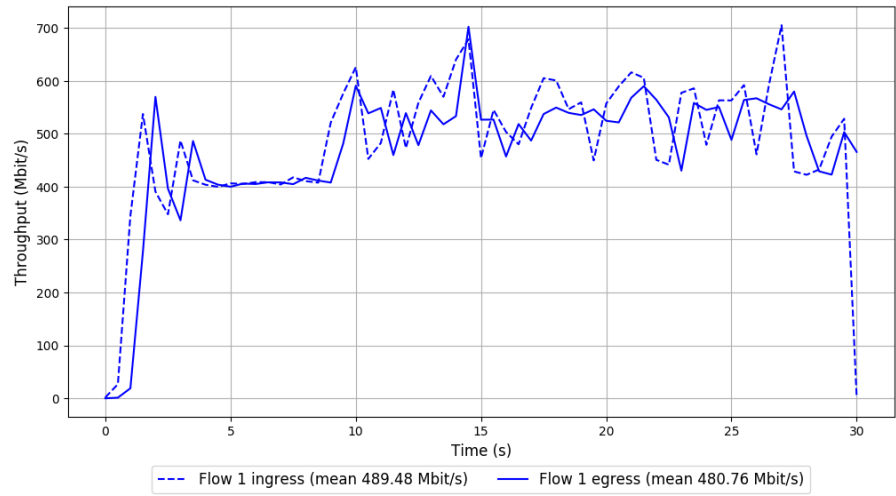


Run 7: Statistics of TCP BBR

Start at: 2018-08-11 16:55:38
End at: 2018-08-11 16:56:08
Local clock offset: -0.486 ms
Remote clock offset: -0.065 ms

Below is generated by plot.py at 2018-08-11 18:46:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 480.76 Mbit/s
95th percentile per-packet one-way delay: 149.054 ms
Loss rate: 2.18%
-- Flow 1:
Average throughput: 480.76 Mbit/s
95th percentile per-packet one-way delay: 149.054 ms
Loss rate: 2.18%

Run 7: Report of TCP BBR — Data Link

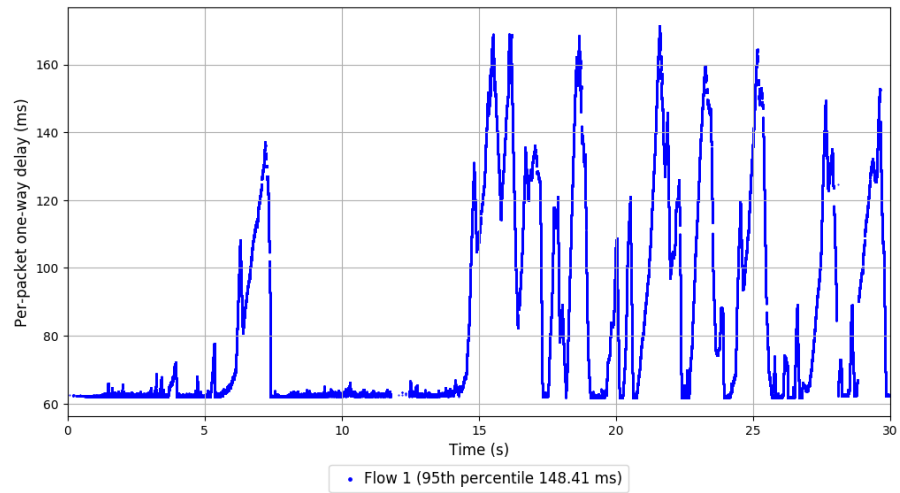
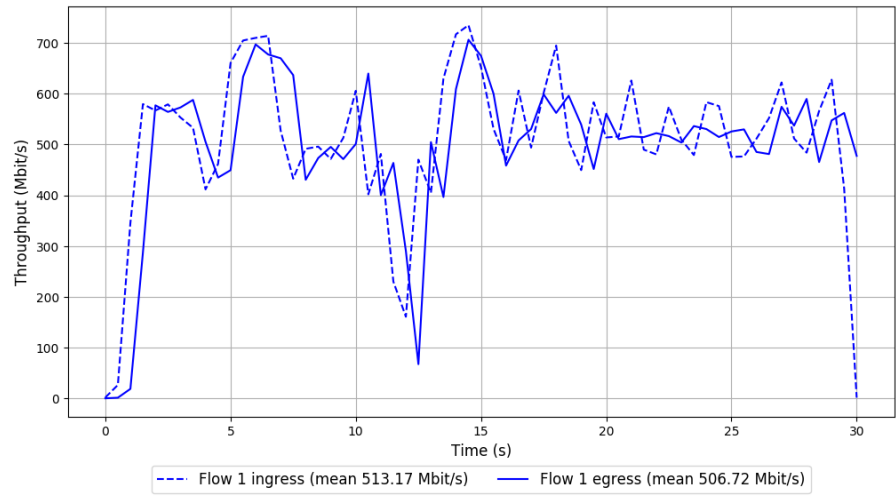


Run 8: Statistics of TCP BBR

Start at: 2018-08-11 17:18:47
End at: 2018-08-11 17:19:17
Local clock offset: 0.243 ms
Remote clock offset: -0.998 ms

Below is generated by plot.py at 2018-08-11 18:46:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 506.72 Mbit/s
95th percentile per-packet one-way delay: 148.406 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 506.72 Mbit/s
95th percentile per-packet one-way delay: 148.406 ms
Loss rate: 1.66%

Run 8: Report of TCP BBR — Data Link

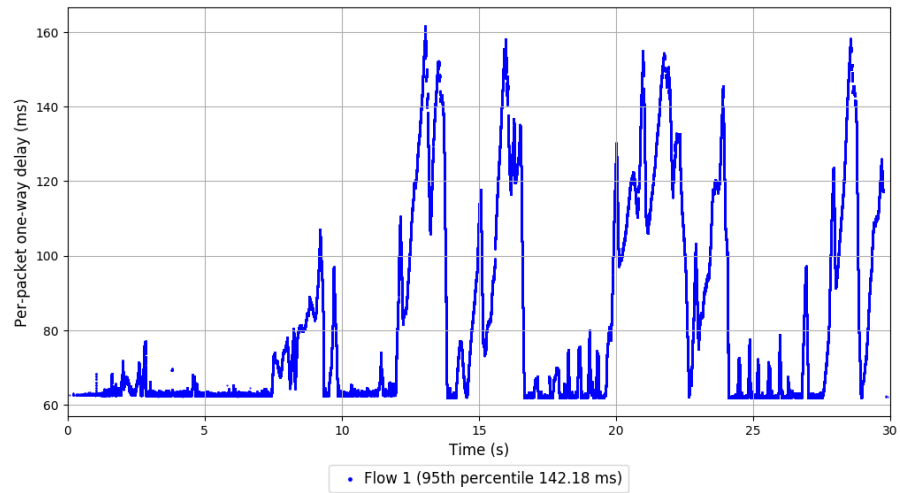
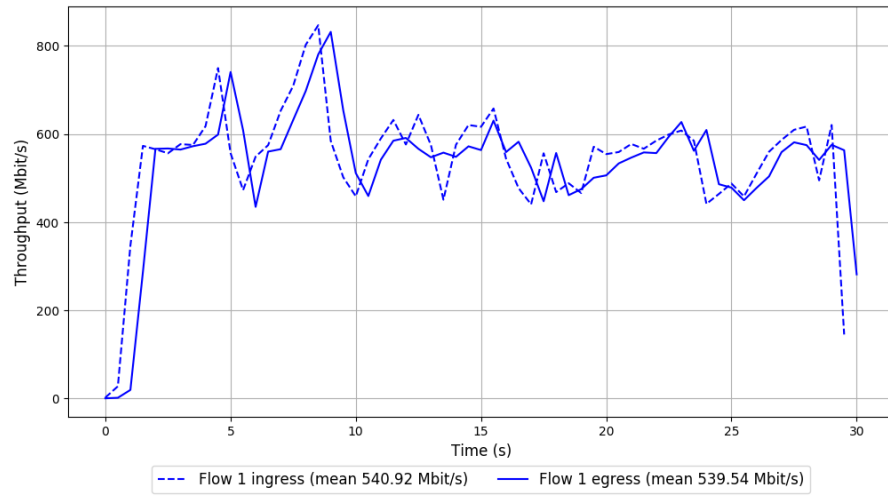


Run 9: Statistics of TCP BBR

Start at: 2018-08-11 17:41:42
End at: 2018-08-11 17:42:12
Local clock offset: 0.487 ms
Remote clock offset: -1.254 ms

Below is generated by plot.py at 2018-08-11 18:55:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 539.54 Mbit/s
95th percentile per-packet one-way delay: 142.175 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 539.54 Mbit/s
95th percentile per-packet one-way delay: 142.175 ms
Loss rate: 0.66%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-08-11 18:04:39

End at: 2018-08-11 18:05:09

Local clock offset: 0.769 ms

Remote clock offset: 0.17 ms

Below is generated by plot.py at 2018-08-11 18:55:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 505.43 Mbit/s

95th percentile per-packet one-way delay: 165.109 ms

Loss rate: 1.76%

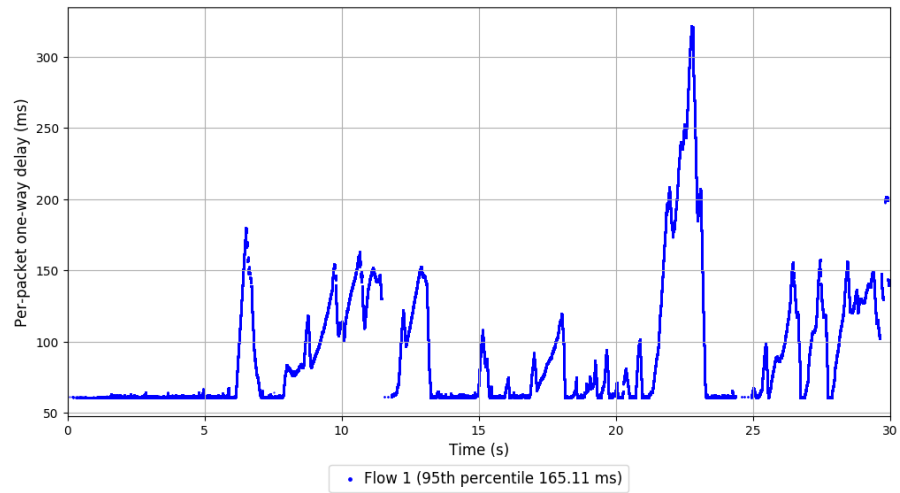
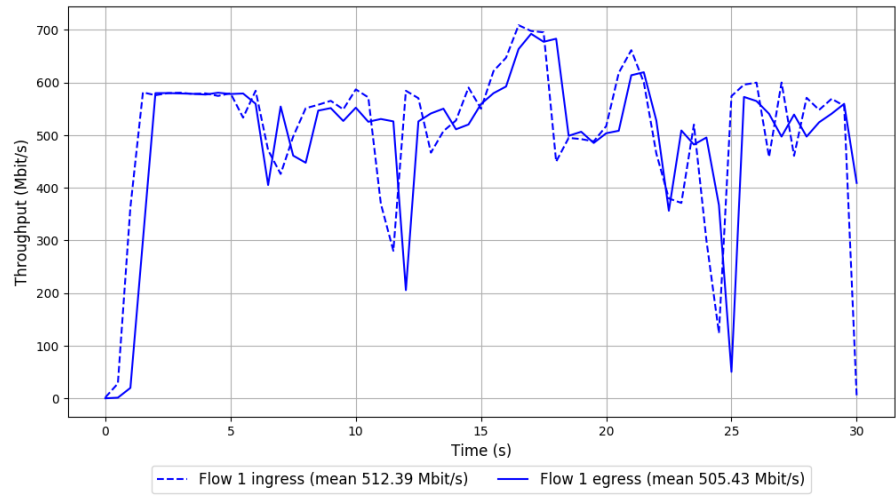
-- Flow 1:

Average throughput: 505.43 Mbit/s

95th percentile per-packet one-way delay: 165.109 ms

Loss rate: 1.76%

Run 10: Report of TCP BBR — Data Link

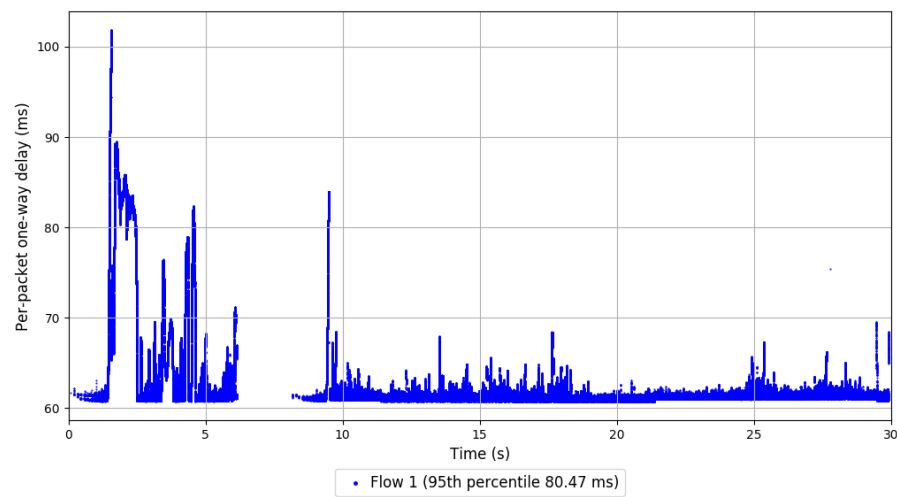
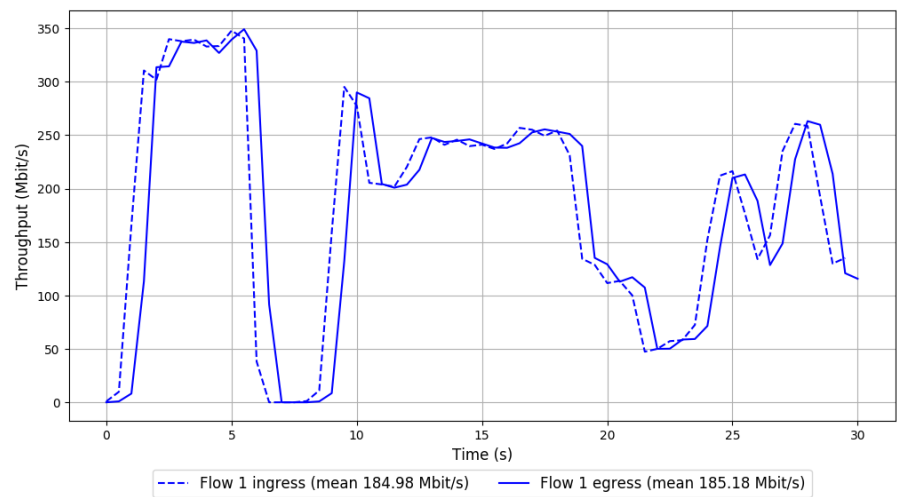


Run 1: Statistics of Copa

Start at: 2018-08-11 14:47:15
End at: 2018-08-11 14:47:45
Local clock offset: -0.435 ms
Remote clock offset: -0.123 ms

Below is generated by plot.py at 2018-08-11 18:55:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 185.18 Mbit/s
95th percentile per-packet one-way delay: 80.469 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 185.18 Mbit/s
95th percentile per-packet one-way delay: 80.469 ms
Loss rate: 0.30%

Run 1: Report of Copa — Data Link

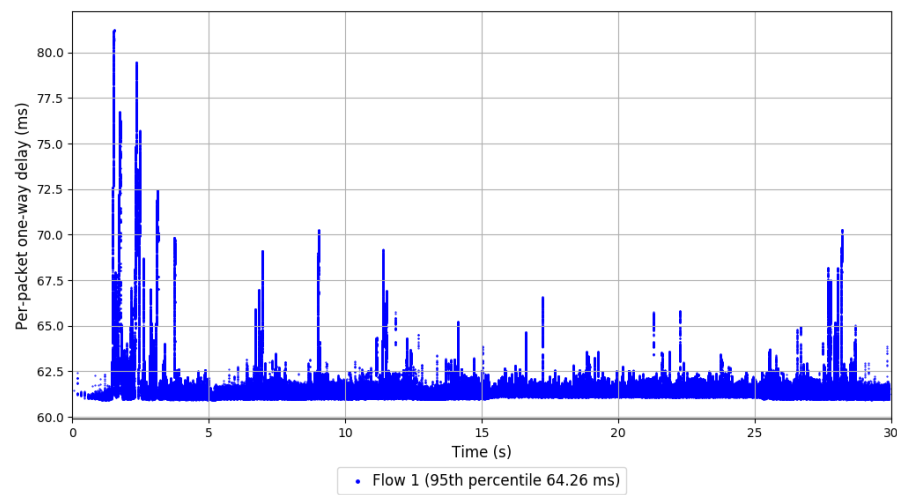
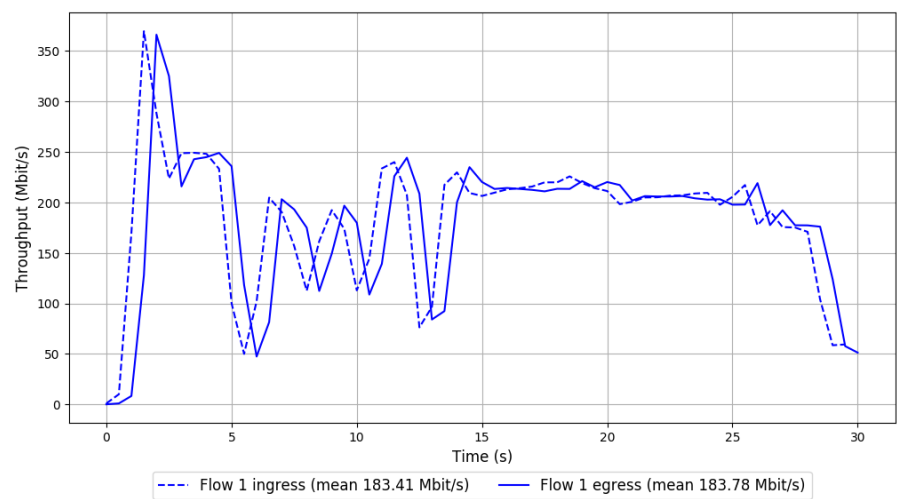


Run 2: Statistics of Copa

Start at: 2018-08-11 15:09:59
End at: 2018-08-11 15:10:29
Local clock offset: -0.484 ms
Remote clock offset: -0.215 ms

Below is generated by plot.py at 2018-08-11 18:55:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 183.78 Mbit/s
95th percentile per-packet one-way delay: 64.258 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 183.78 Mbit/s
95th percentile per-packet one-way delay: 64.258 ms
Loss rate: 0.14%

Run 2: Report of Copa — Data Link

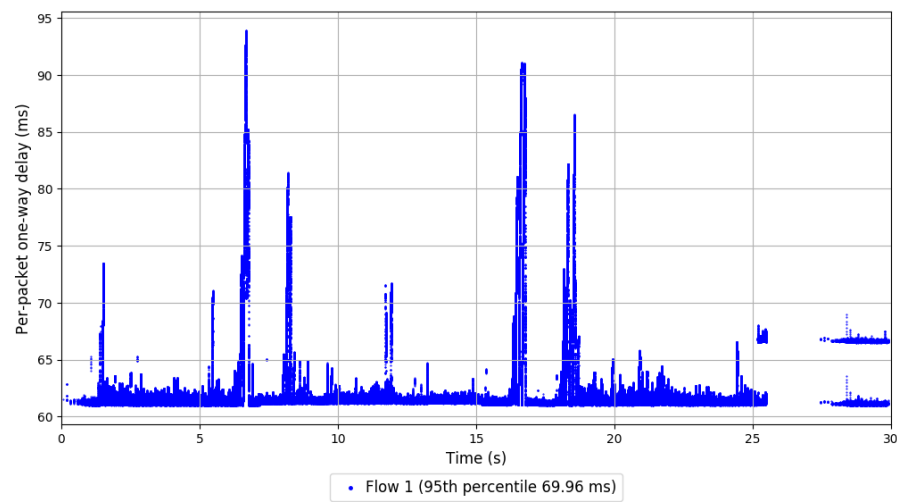
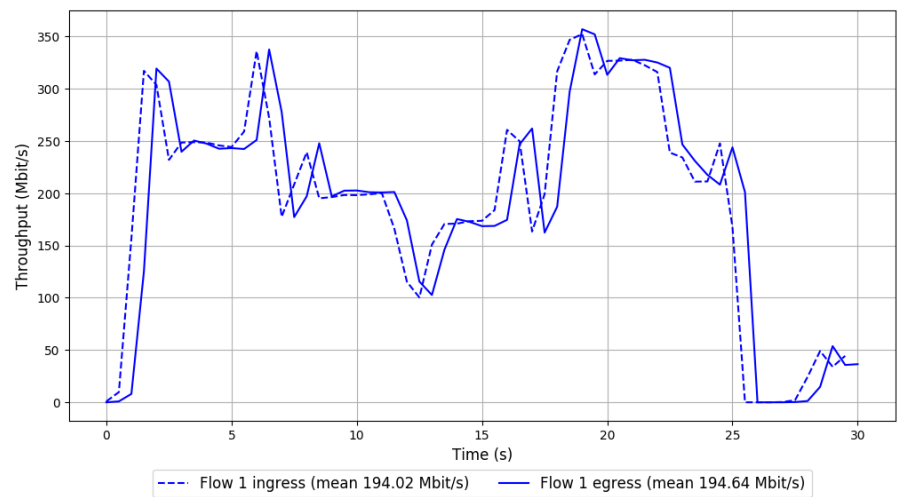


Run 3: Statistics of Copa

Start at: 2018-08-11 15:32:49
End at: 2018-08-11 15:33:19
Local clock offset: -0.485 ms
Remote clock offset: -0.081 ms

Below is generated by plot.py at 2018-08-11 18:55:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 194.64 Mbit/s
95th percentile per-packet one-way delay: 69.963 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 194.64 Mbit/s
95th percentile per-packet one-way delay: 69.963 ms
Loss rate: 0.10%

Run 3: Report of Copa — Data Link

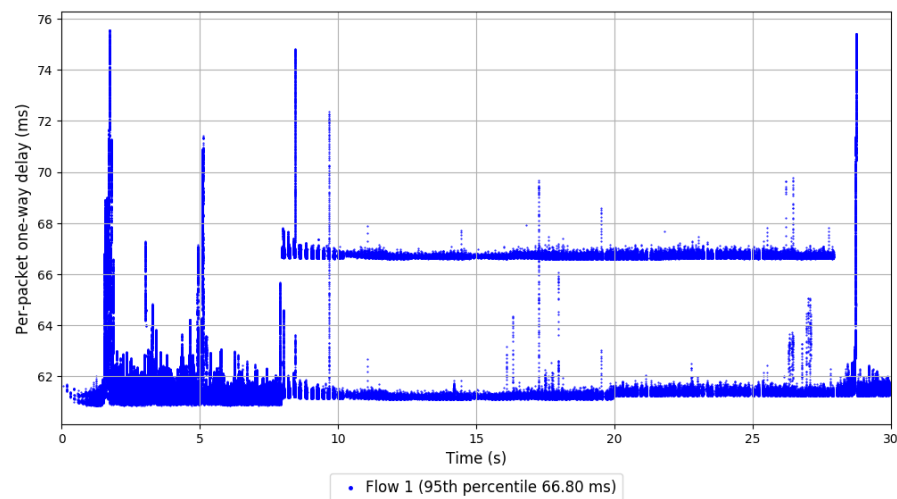
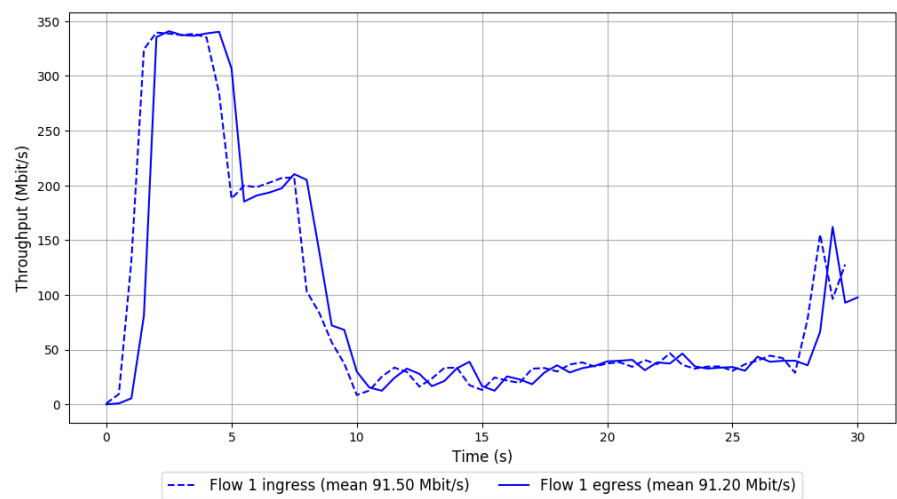


Run 4: Statistics of Copa

Start at: 2018-08-11 15:55:47
End at: 2018-08-11 15:56:17
Local clock offset: -0.573 ms
Remote clock offset: -0.291 ms

Below is generated by plot.py at 2018-08-11 18:55:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.20 Mbit/s
95th percentile per-packet one-way delay: 66.804 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 91.20 Mbit/s
95th percentile per-packet one-way delay: 66.804 ms
Loss rate: 0.75%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-08-11 16:17:57

End at: 2018-08-11 16:18:27

Local clock offset: -0.623 ms

Remote clock offset: 0.529 ms

Below is generated by plot.py at 2018-08-11 18:55:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.36 Mbit/s

95th percentile per-packet one-way delay: 65.905 ms

Loss rate: 0.02%

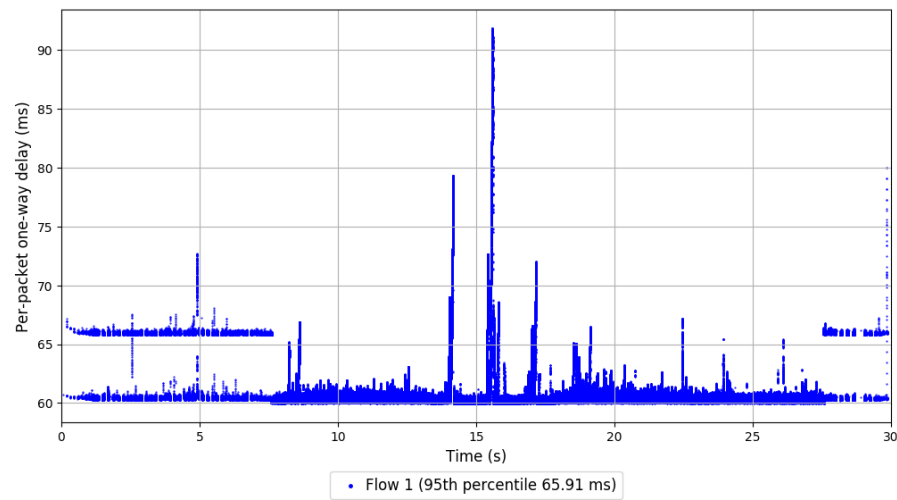
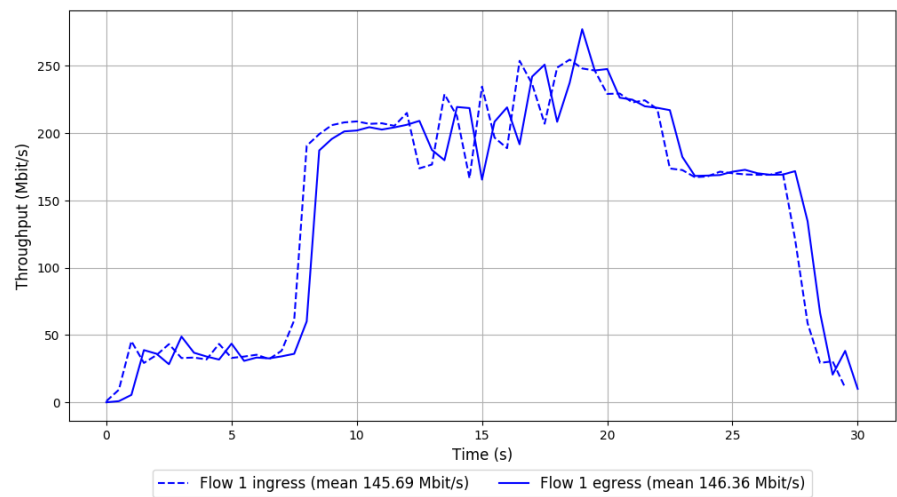
-- Flow 1:

Average throughput: 146.36 Mbit/s

95th percentile per-packet one-way delay: 65.905 ms

Loss rate: 0.02%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-08-11 16:40:26

End at: 2018-08-11 16:40:56

Local clock offset: -0.746 ms

Remote clock offset: -0.25 ms

Below is generated by plot.py at 2018-08-11 18:55:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.26 Mbit/s

95th percentile per-packet one-way delay: 66.916 ms

Loss rate: 0.05%

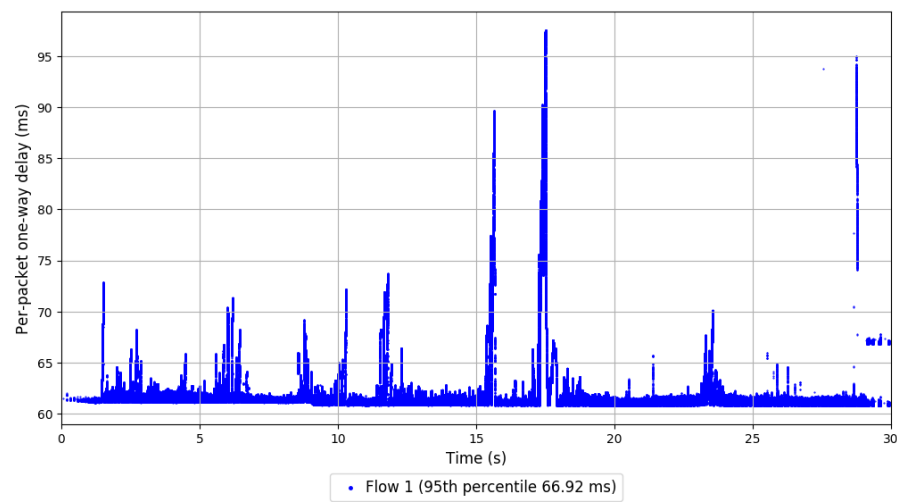
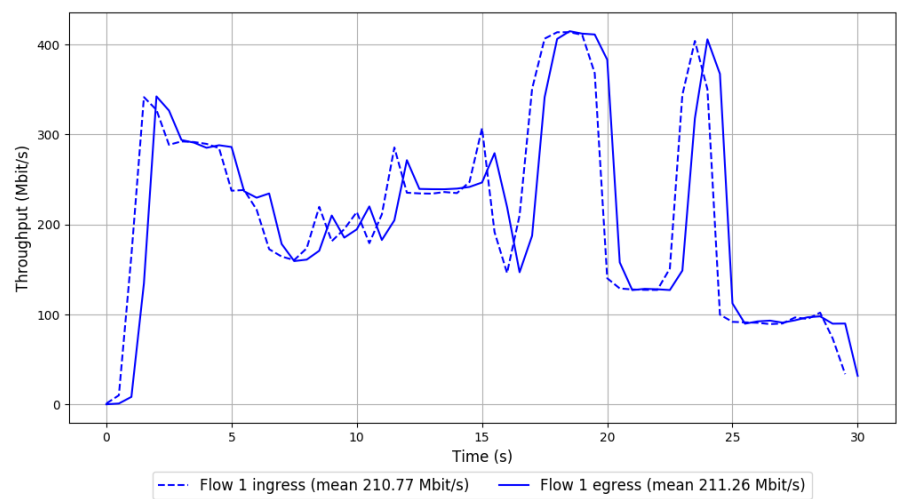
-- Flow 1:

Average throughput: 211.26 Mbit/s

95th percentile per-packet one-way delay: 66.916 ms

Loss rate: 0.05%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-08-11 17:03:34

End at: 2018-08-11 17:04:04

Local clock offset: -0.094 ms

Remote clock offset: 0.461 ms

Below is generated by plot.py at 2018-08-11 18:56:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.66 Mbit/s

95th percentile per-packet one-way delay: 66.608 ms

Loss rate: 0.28%

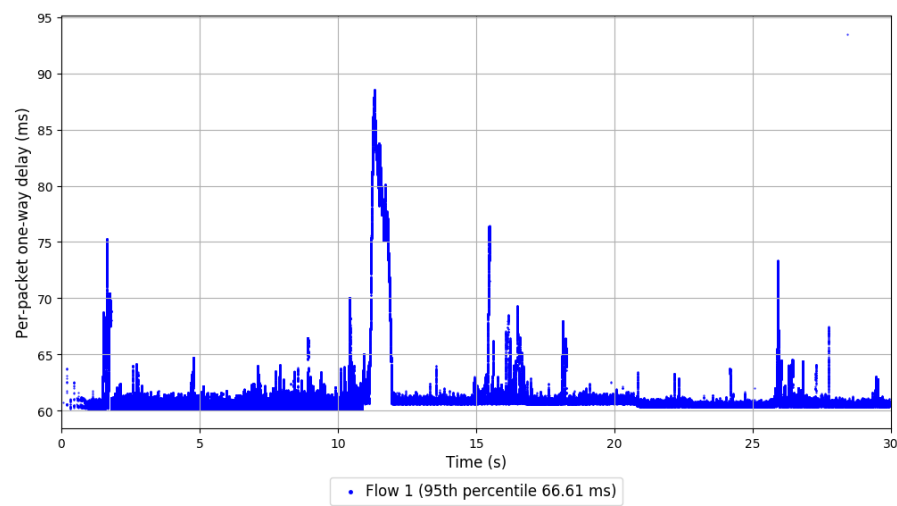
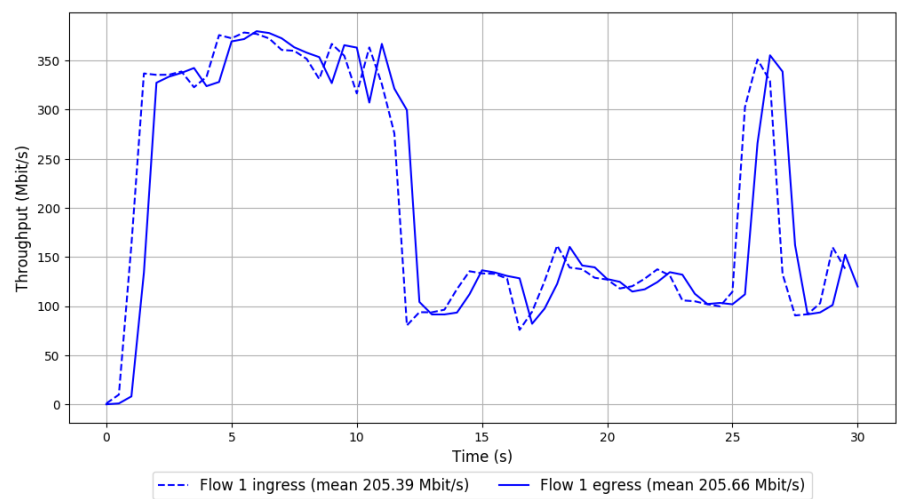
-- Flow 1:

Average throughput: 205.66 Mbit/s

95th percentile per-packet one-way delay: 66.608 ms

Loss rate: 0.28%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-08-11 17:26:40

End at: 2018-08-11 17:27:10

Local clock offset: 0.352 ms

Remote clock offset: 0.066 ms

Below is generated by plot.py at 2018-08-11 18:58:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.68 Mbit/s

95th percentile per-packet one-way delay: 64.169 ms

Loss rate: 0.40%

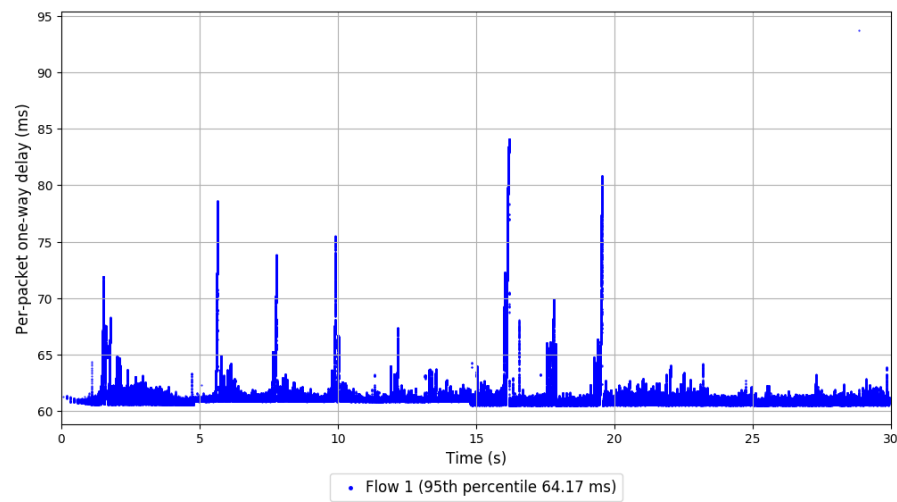
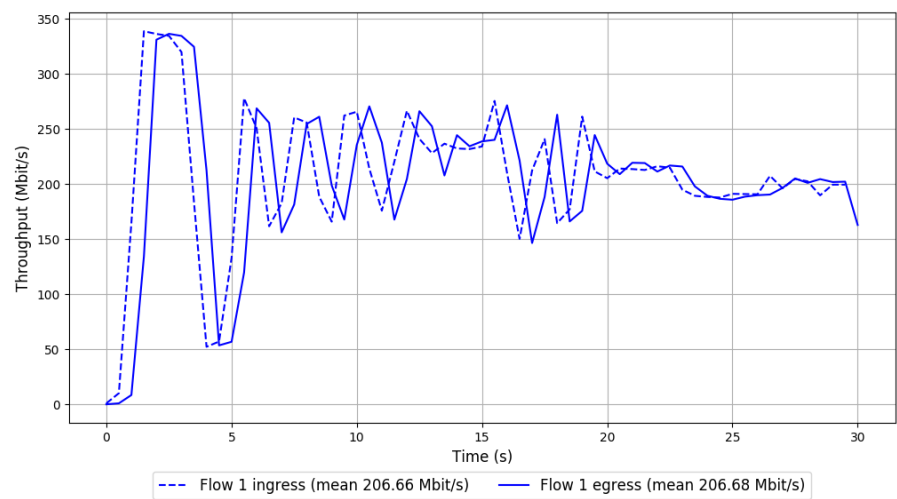
-- Flow 1:

Average throughput: 206.68 Mbit/s

95th percentile per-packet one-way delay: 64.169 ms

Loss rate: 0.40%

Run 8: Report of Copa — Data Link

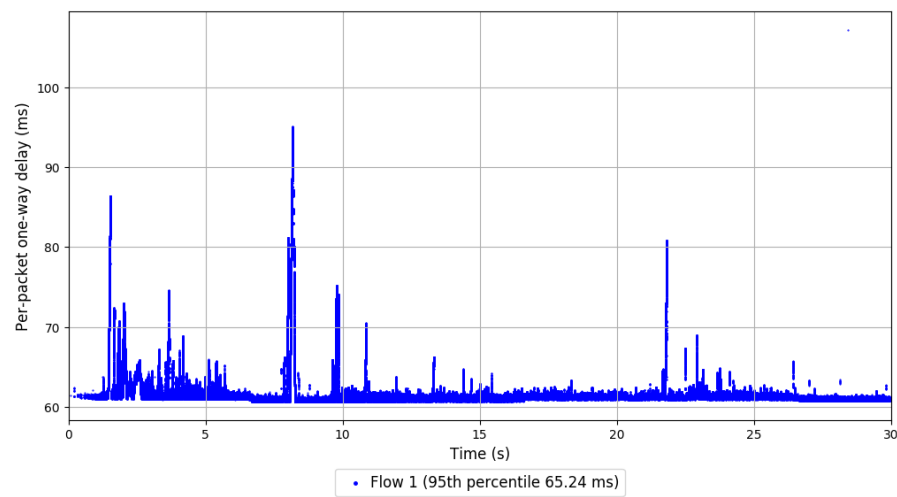
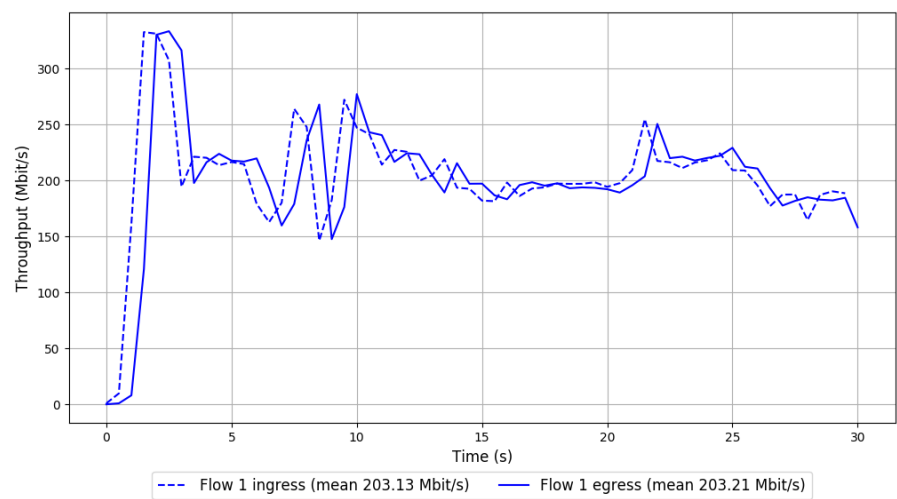


Run 9: Statistics of Copa

Start at: 2018-08-11 17:49:38
End at: 2018-08-11 17:50:08
Local clock offset: 0.563 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2018-08-11 18:58:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 203.21 Mbit/s
95th percentile per-packet one-way delay: 65.238 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 203.21 Mbit/s
95th percentile per-packet one-way delay: 65.238 ms
Loss rate: 0.37%

Run 9: Report of Copa — Data Link

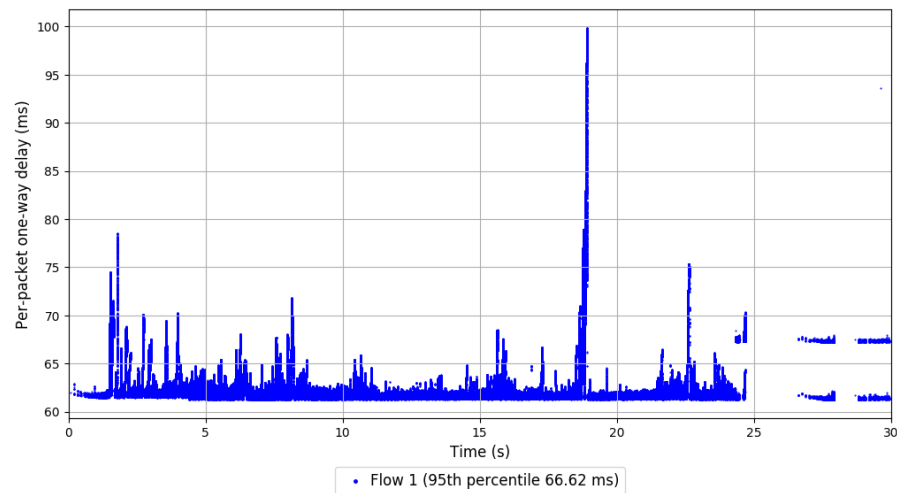
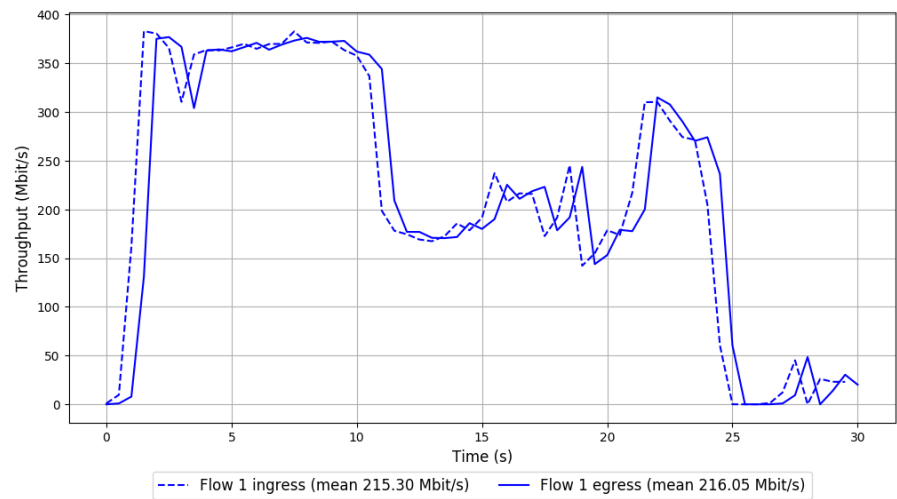


Run 10: Statistics of Copa

Start at: 2018-08-11 18:12:30
End at: 2018-08-11 18:13:00
Local clock offset: 0.671 ms
Remote clock offset: -0.733 ms

Below is generated by plot.py at 2018-08-11 18:59:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 216.05 Mbit/s
95th percentile per-packet one-way delay: 66.622 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 216.05 Mbit/s
95th percentile per-packet one-way delay: 66.622 ms
Loss rate: 0.06%

Run 10: Report of Copa — Data Link

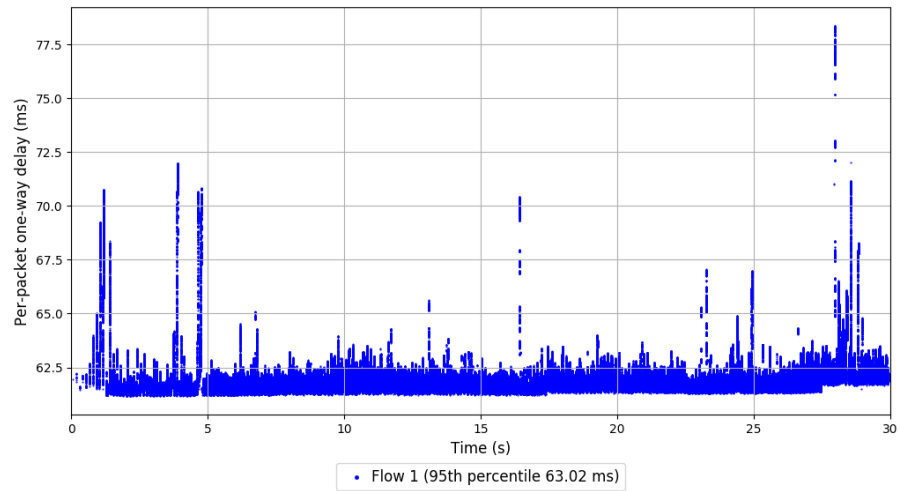
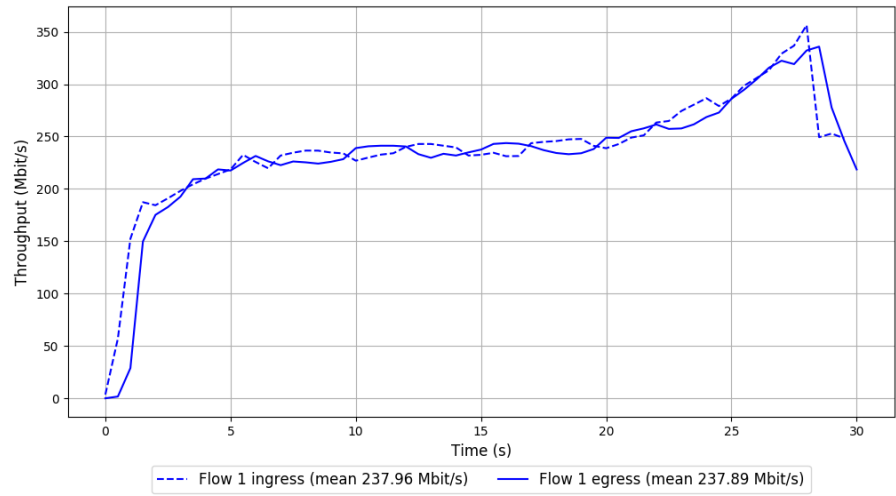


Run 1: Statistics of TCP Cubic

Start at: 2018-08-11 14:52:27
End at: 2018-08-11 14:52:57
Local clock offset: -0.455 ms
Remote clock offset: -0.579 ms

Below is generated by plot.py at 2018-08-11 18:59:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 237.89 Mbit/s
95th percentile per-packet one-way delay: 63.021 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 237.89 Mbit/s
95th percentile per-packet one-way delay: 63.021 ms
Loss rate: 0.43%

Run 1: Report of TCP Cubic — Data Link

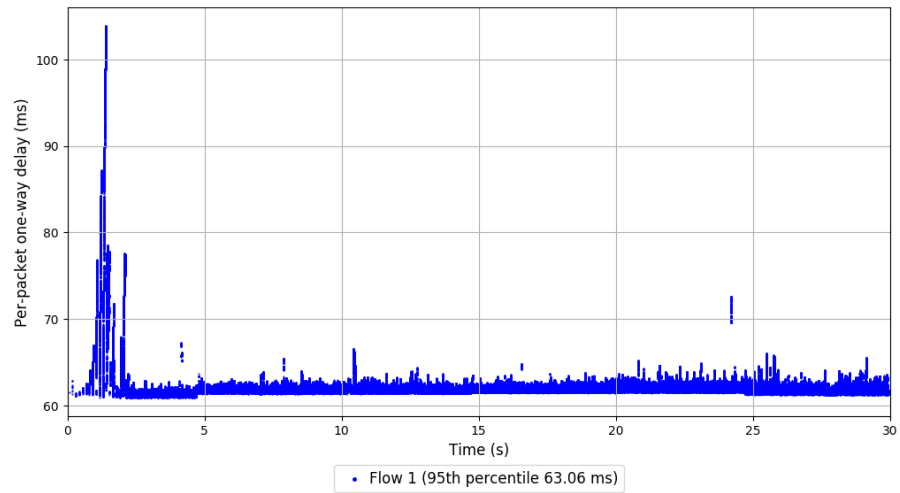
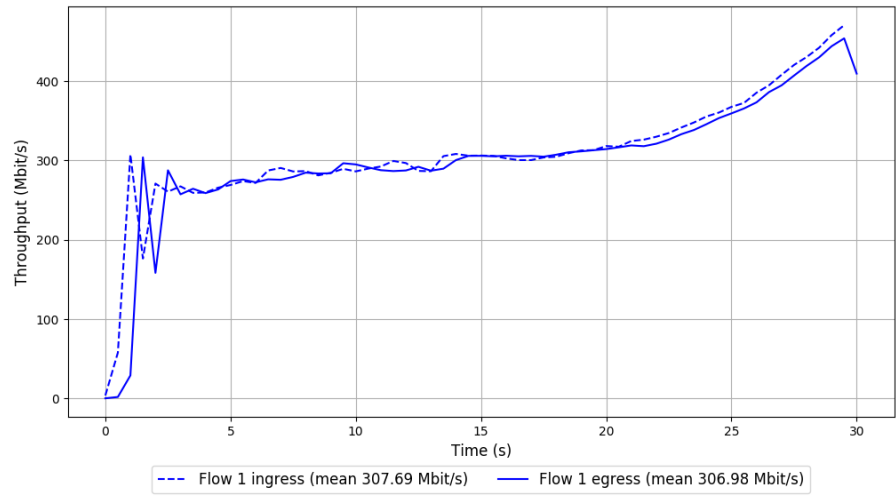


Run 2: Statistics of TCP Cubic

Start at: 2018-08-11 15:15:10
End at: 2018-08-11 15:15:40
Local clock offset: -0.517 ms
Remote clock offset: -0.283 ms

Below is generated by plot.py at 2018-08-11 18:59:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 306.98 Mbit/s
95th percentile per-packet one-way delay: 63.060 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 306.98 Mbit/s
95th percentile per-packet one-way delay: 63.060 ms
Loss rate: 0.64%

Run 2: Report of TCP Cubic — Data Link

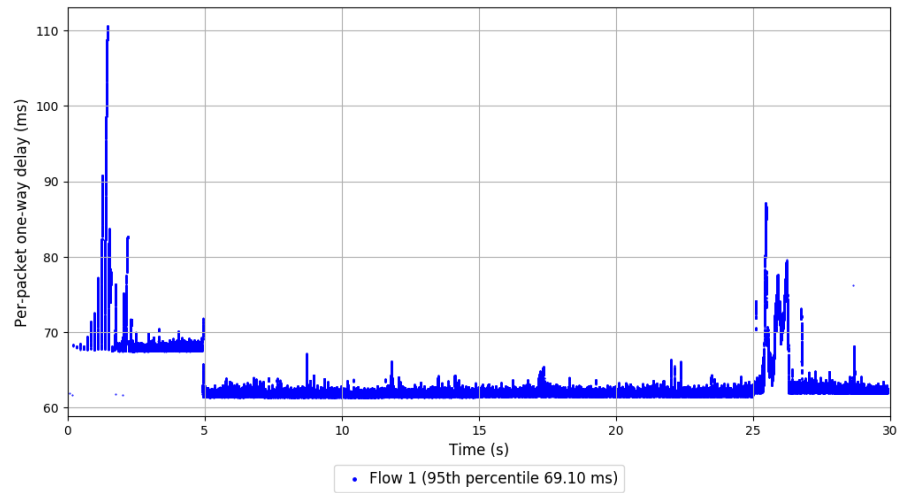
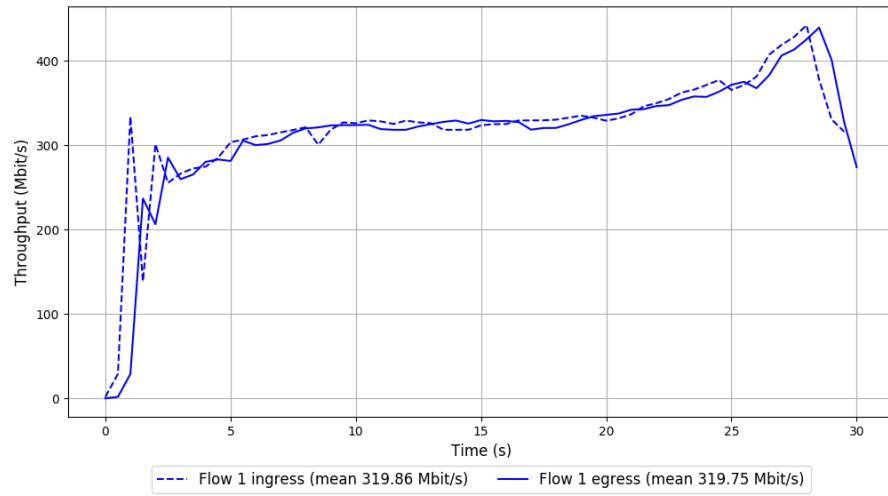


Run 3: Statistics of TCP Cubic

Start at: 2018-08-11 15:38:10
End at: 2018-08-11 15:38:40
Local clock offset: -0.551 ms
Remote clock offset: -0.738 ms

Below is generated by plot.py at 2018-08-11 19:00:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 319.75 Mbit/s
95th percentile per-packet one-way delay: 69.102 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 319.75 Mbit/s
95th percentile per-packet one-way delay: 69.102 ms
Loss rate: 0.44%

Run 3: Report of TCP Cubic — Data Link

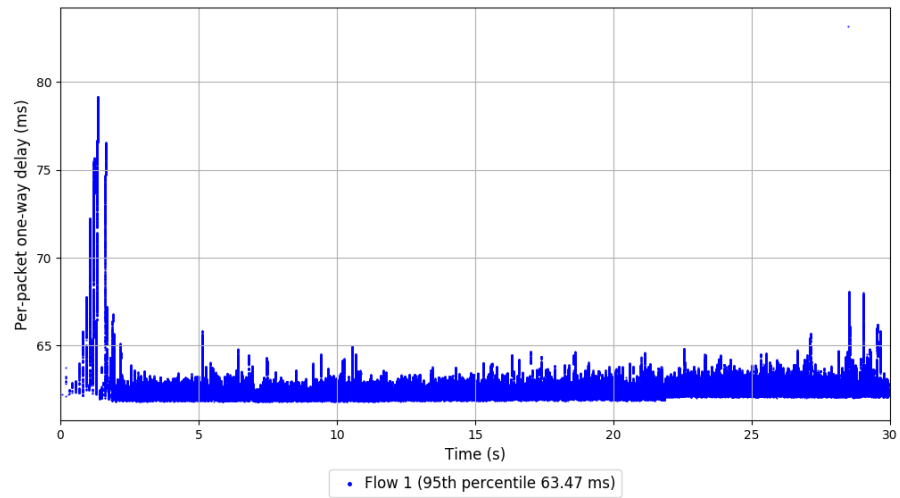
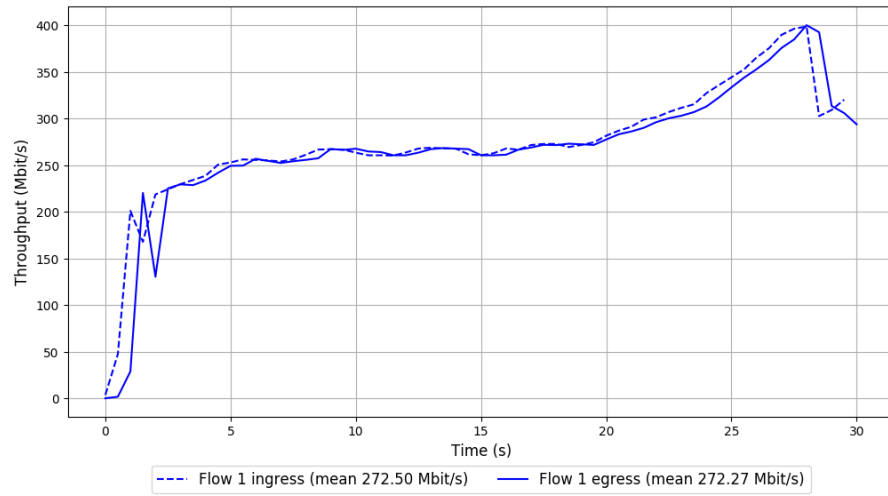


Run 4: Statistics of TCP Cubic

Start at: 2018-08-11 16:00:43
End at: 2018-08-11 16:01:13
Local clock offset: -0.622 ms
Remote clock offset: -1.005 ms

Below is generated by plot.py at 2018-08-11 19:00:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 272.27 Mbit/s
95th percentile per-packet one-way delay: 63.471 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 272.27 Mbit/s
95th percentile per-packet one-way delay: 63.471 ms
Loss rate: 0.49%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-08-11 16:23:08

End at: 2018-08-11 16:23:38

Local clock offset: -0.614 ms

Remote clock offset: -0.36 ms

Below is generated by plot.py at 2018-08-11 19:00:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.41 Mbit/s

95th percentile per-packet one-way delay: 63.376 ms

Loss rate: 0.69%

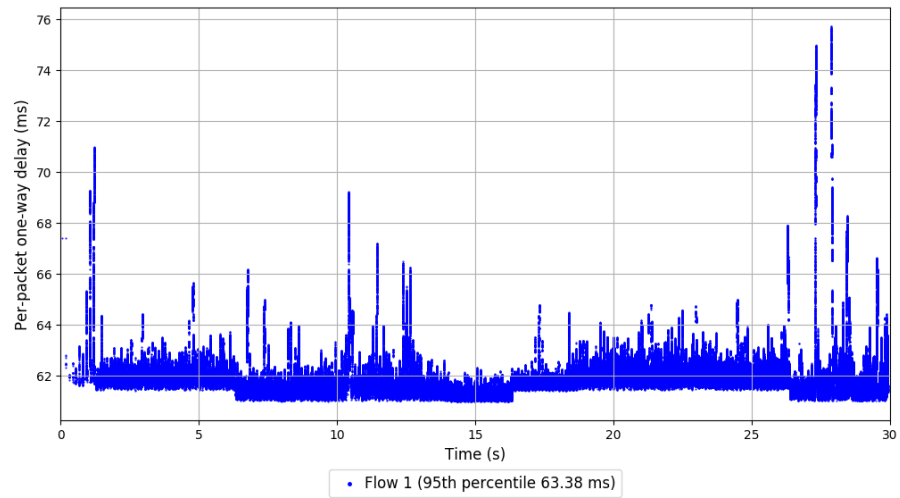
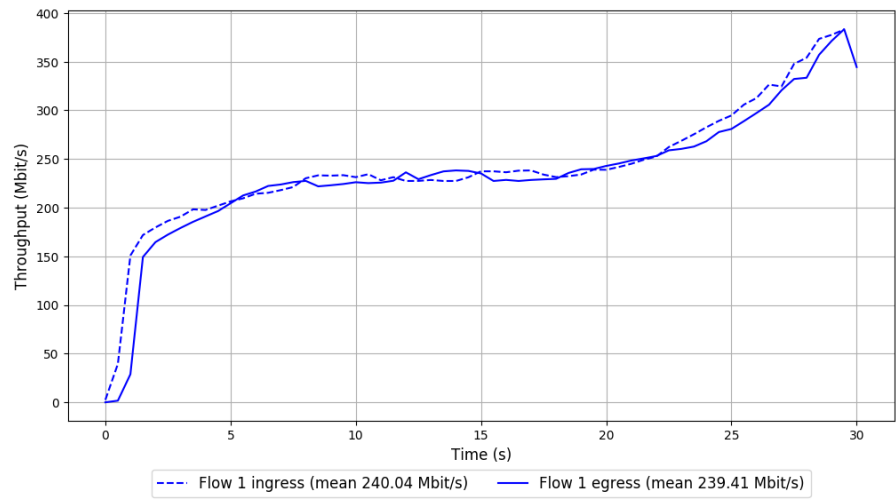
-- Flow 1:

Average throughput: 239.41 Mbit/s

95th percentile per-packet one-way delay: 63.376 ms

Loss rate: 0.69%

Run 5: Report of TCP Cubic — Data Link

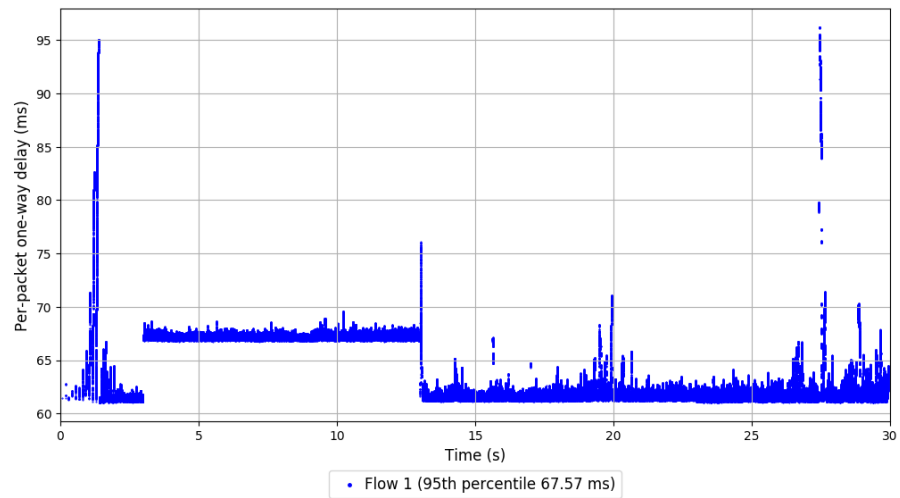
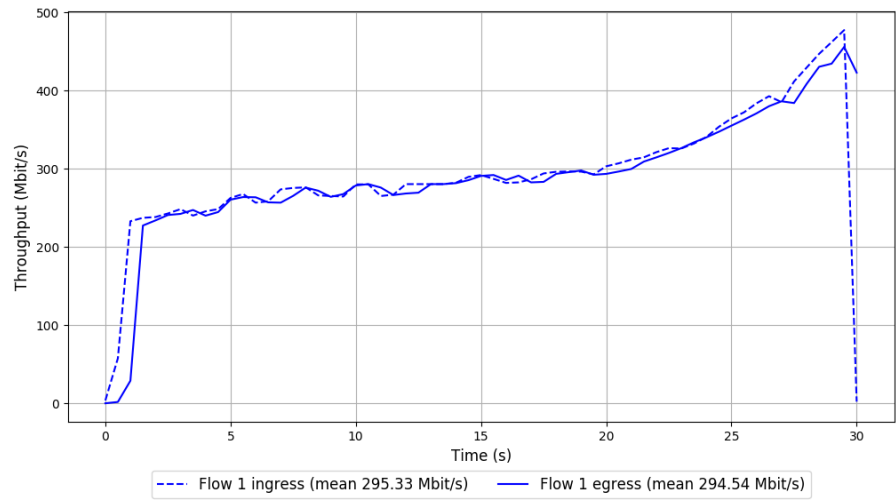


Run 6: Statistics of TCP Cubic

Start at: 2018-08-11 16:45:42
End at: 2018-08-11 16:46:12
Local clock offset: -0.752 ms
Remote clock offset: -0.146 ms

Below is generated by plot.py at 2018-08-11 19:02:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 294.54 Mbit/s
95th percentile per-packet one-way delay: 67.574 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 294.54 Mbit/s
95th percentile per-packet one-way delay: 67.574 ms
Loss rate: 0.67%

Run 6: Report of TCP Cubic — Data Link

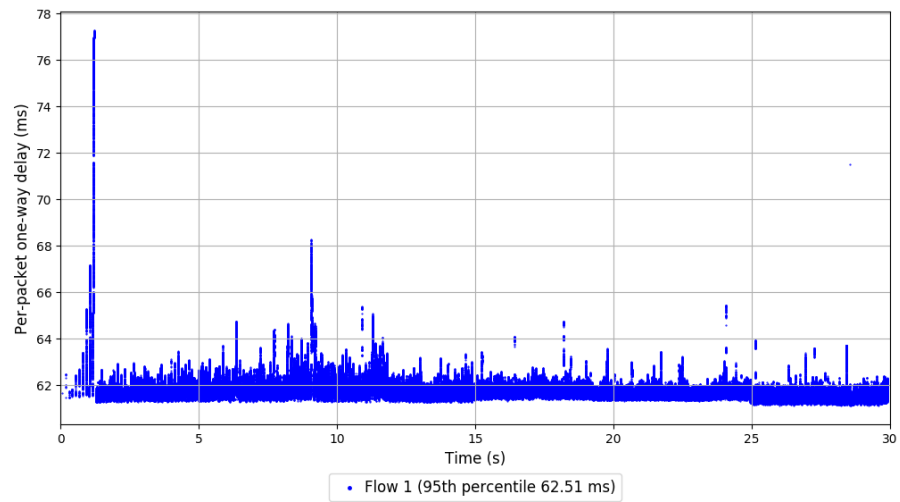
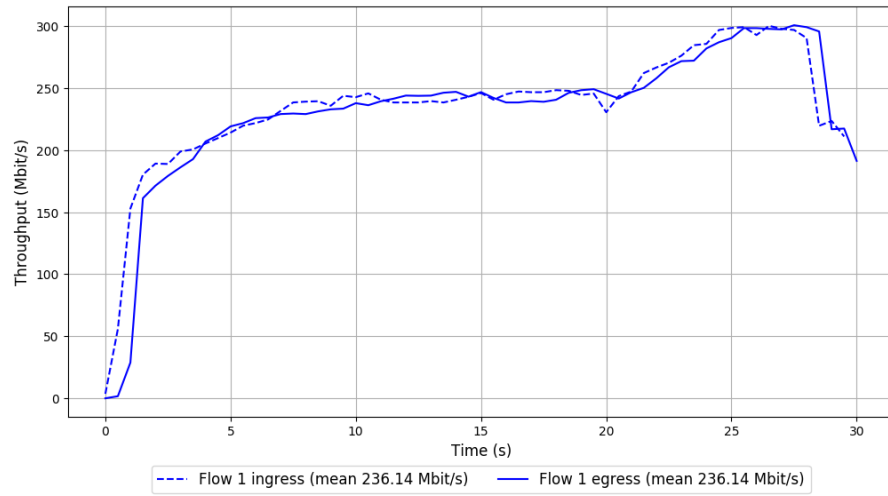


Run 7: Statistics of TCP Cubic

Start at: 2018-08-11 17:08:50
End at: 2018-08-11 17:09:20
Local clock offset: 0.061 ms
Remote clock offset: -0.378 ms

Below is generated by plot.py at 2018-08-11 19:02:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 236.14 Mbit/s
95th percentile per-packet one-way delay: 62.508 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 236.14 Mbit/s
95th percentile per-packet one-way delay: 62.508 ms
Loss rate: 0.41%

Run 7: Report of TCP Cubic — Data Link

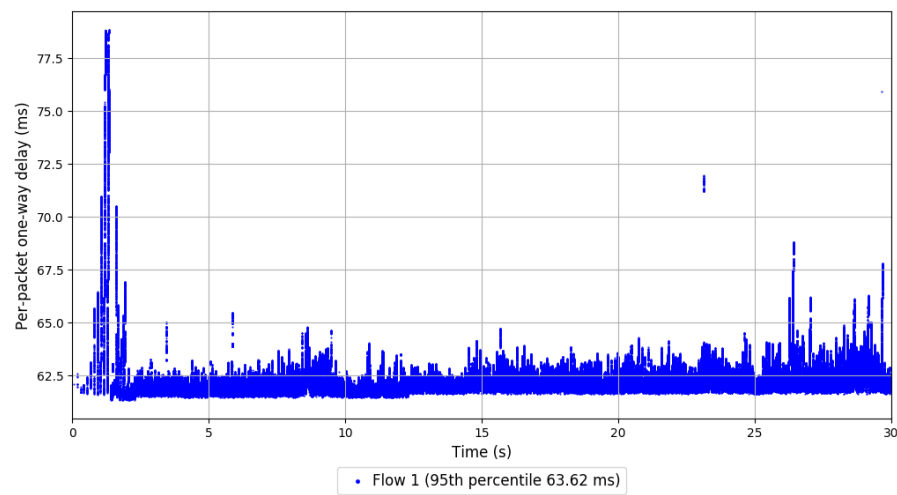
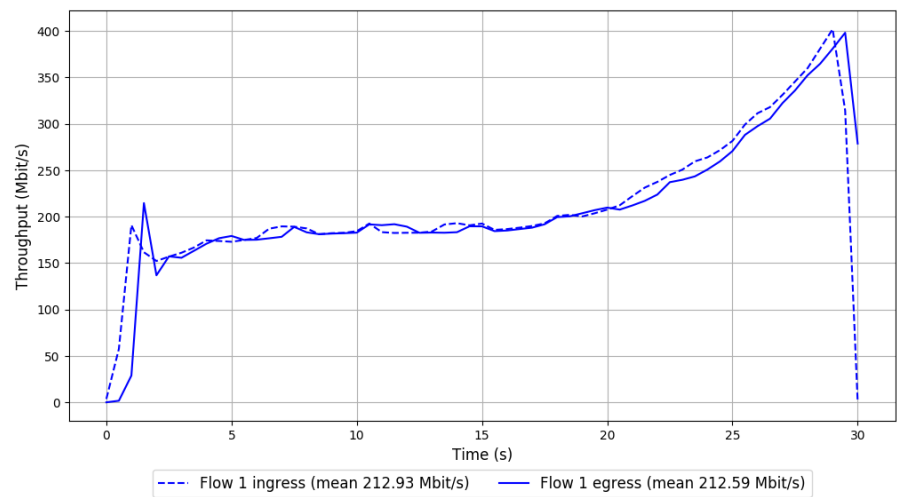


Run 8: Statistics of TCP Cubic

Start at: 2018-08-11 17:31:52
End at: 2018-08-11 17:32:22
Local clock offset: 0.452 ms
Remote clock offset: -0.626 ms

Below is generated by plot.py at 2018-08-11 19:02:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 212.59 Mbit/s
95th percentile per-packet one-way delay: 63.619 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 212.59 Mbit/s
95th percentile per-packet one-way delay: 63.619 ms
Loss rate: 0.56%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-08-11 17:54:55

End at: 2018-08-11 17:55:25

Local clock offset: 0.652 ms

Remote clock offset: 0.108 ms

Below is generated by plot.py at 2018-08-11 19:02:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.96 Mbit/s

95th percentile per-packet one-way delay: 62.383 ms

Loss rate: 0.72%

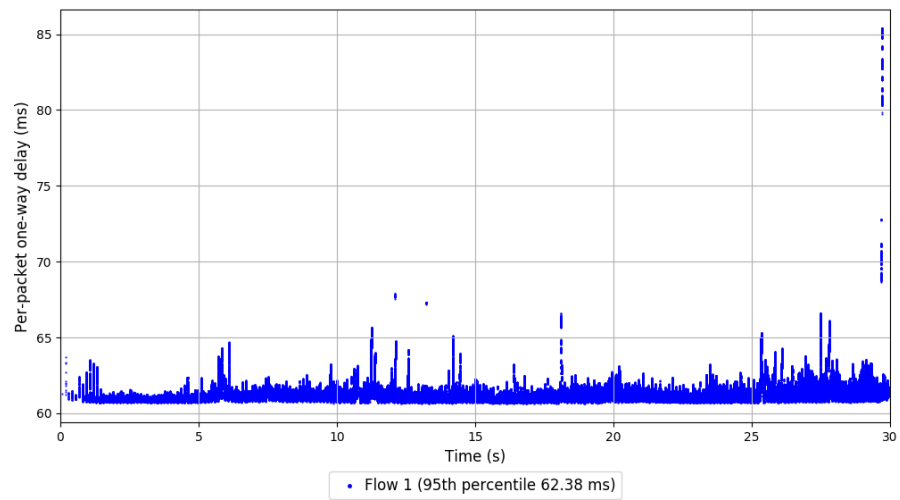
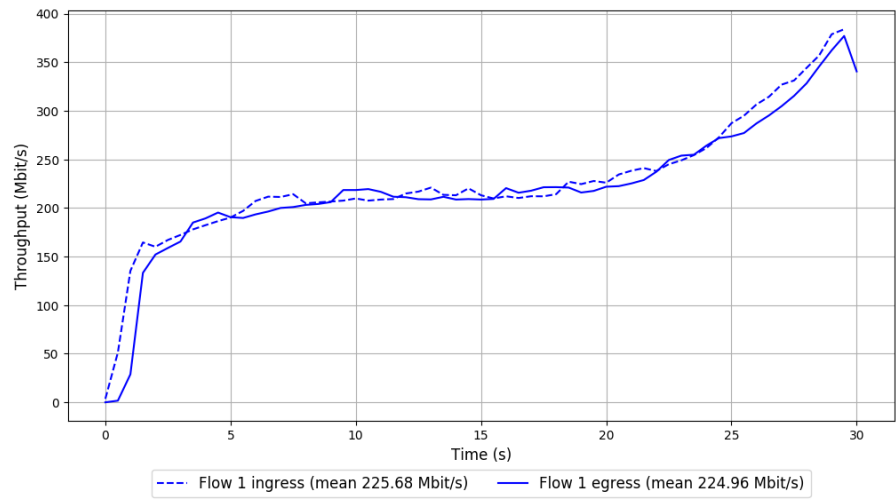
-- Flow 1:

Average throughput: 224.96 Mbit/s

95th percentile per-packet one-way delay: 62.383 ms

Loss rate: 0.72%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-08-11 18:17:43

End at: 2018-08-11 18:18:13

Local clock offset: 0.871 ms

Remote clock offset: -1.506 ms

Below is generated by plot.py at 2018-08-11 19:03:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.78 Mbit/s

95th percentile per-packet one-way delay: 64.093 ms

Loss rate: 0.76%

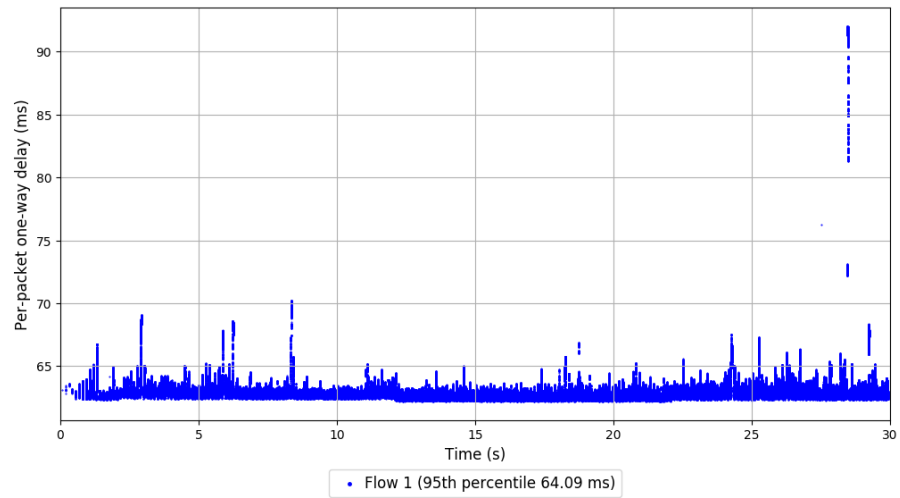
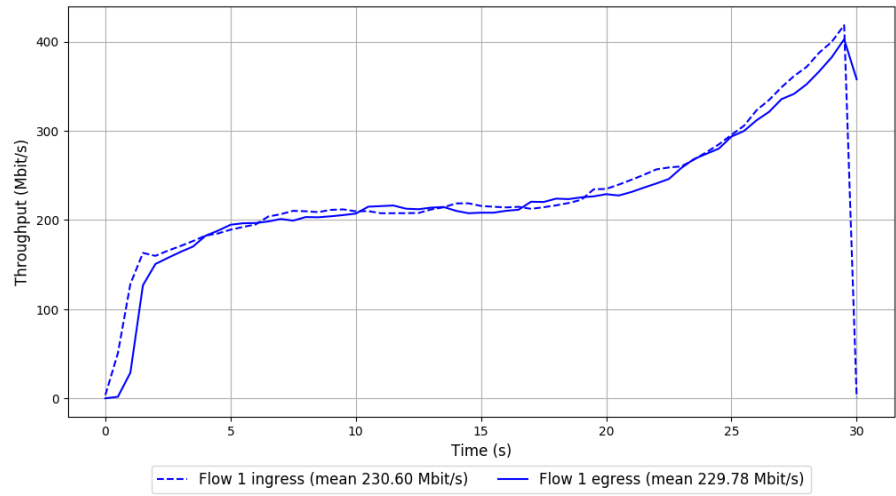
-- Flow 1:

Average throughput: 229.78 Mbit/s

95th percentile per-packet one-way delay: 64.093 ms

Loss rate: 0.76%

Run 10: Report of TCP Cubic — Data Link

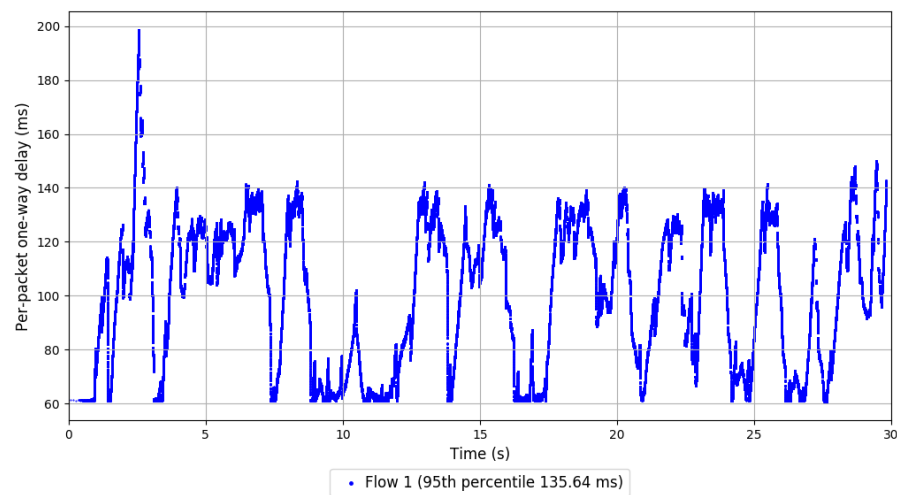
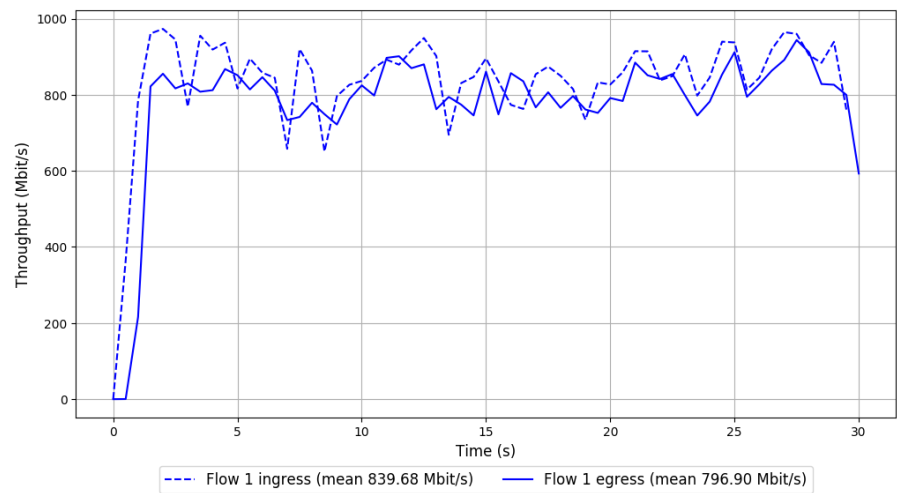


Run 1: Statistics of FillP

Start at: 2018-08-11 14:56:29
End at: 2018-08-11 14:56:59
Local clock offset: -0.47 ms
Remote clock offset: -0.137 ms

Below is generated by plot.py at 2018-08-11 19:17:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 796.90 Mbit/s
95th percentile per-packet one-way delay: 135.641 ms
Loss rate: 5.50%
-- Flow 1:
Average throughput: 796.90 Mbit/s
95th percentile per-packet one-way delay: 135.641 ms
Loss rate: 5.50%

Run 1: Report of FillP — Data Link

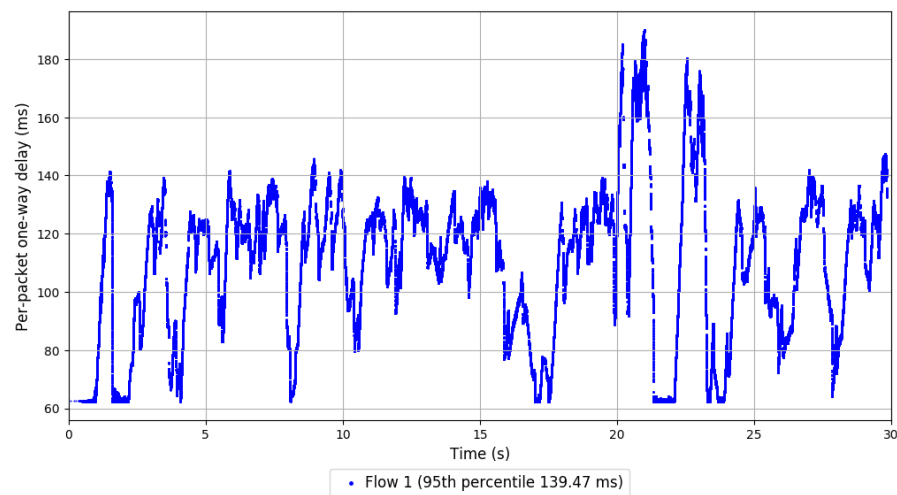
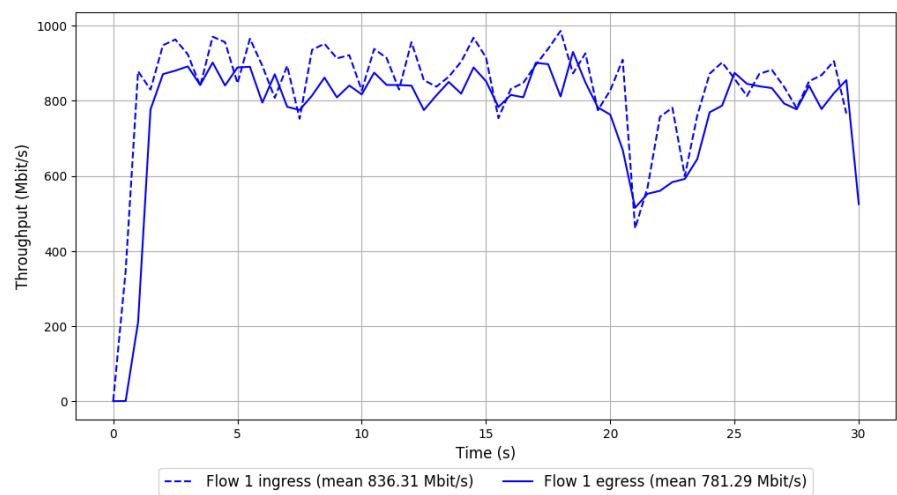


Run 2: Statistics of FillP

Start at: 2018-08-11 15:19:18
End at: 2018-08-11 15:19:48
Local clock offset: -0.474 ms
Remote clock offset: -1.418 ms

Below is generated by plot.py at 2018-08-11 19:17:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 781.29 Mbit/s
95th percentile per-packet one-way delay: 139.470 ms
Loss rate: 6.98%
-- Flow 1:
Average throughput: 781.29 Mbit/s
95th percentile per-packet one-way delay: 139.470 ms
Loss rate: 6.98%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-08-11 15:42:18

End at: 2018-08-11 15:42:48

Local clock offset: -0.545 ms

Remote clock offset: 0.239 ms

Below is generated by plot.py at 2018-08-11 19:17:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 757.41 Mbit/s

95th percentile per-packet one-way delay: 147.291 ms

Loss rate: 6.95%

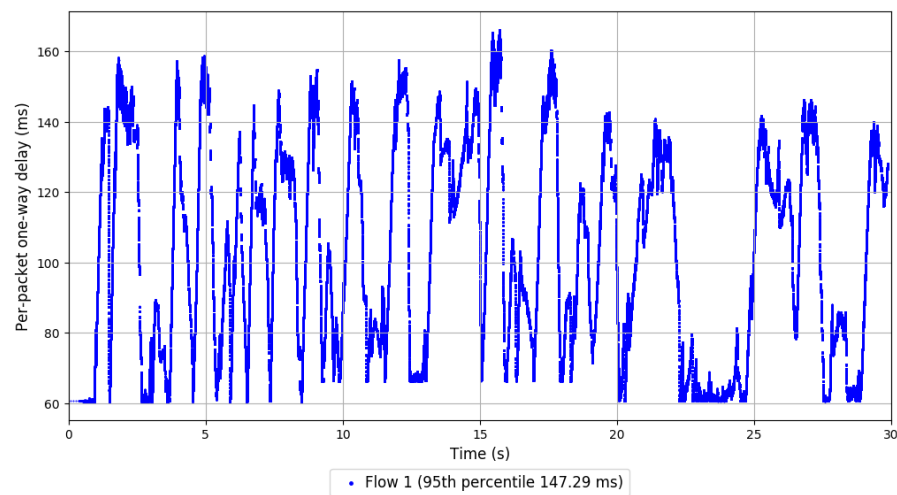
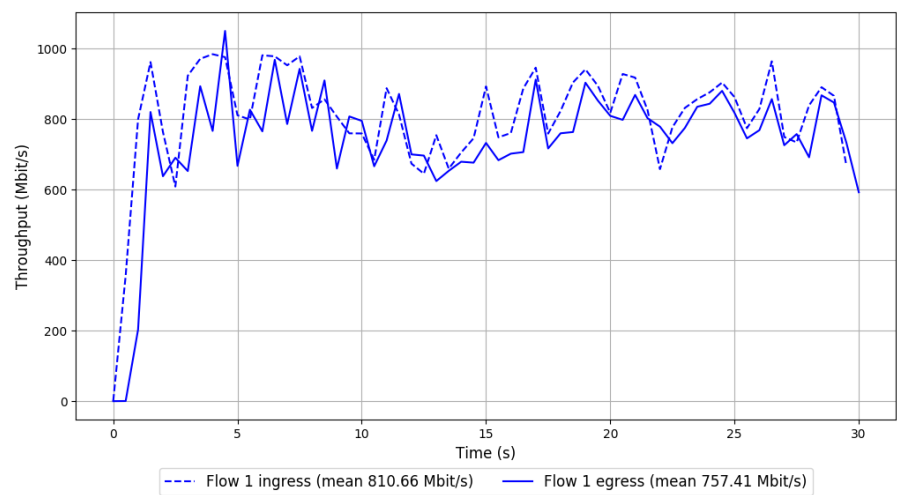
-- Flow 1:

Average throughput: 757.41 Mbit/s

95th percentile per-packet one-way delay: 147.291 ms

Loss rate: 6.95%

Run 3: Report of FillP — Data Link

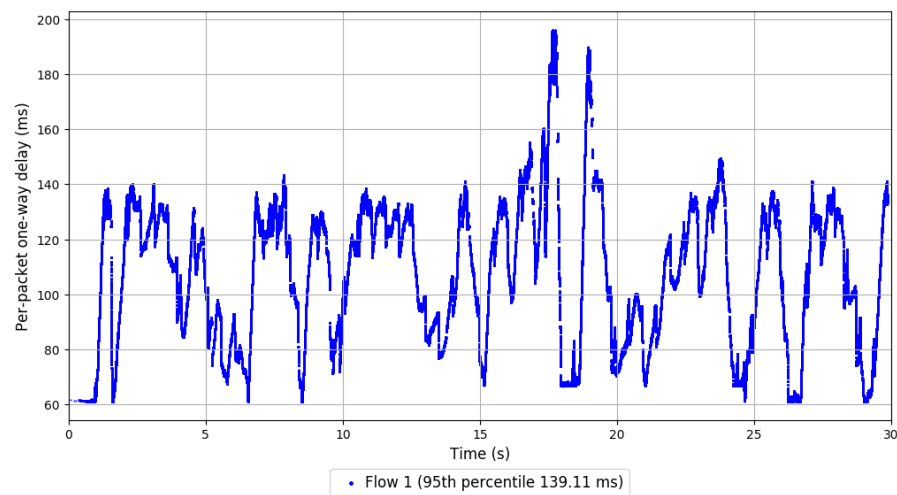
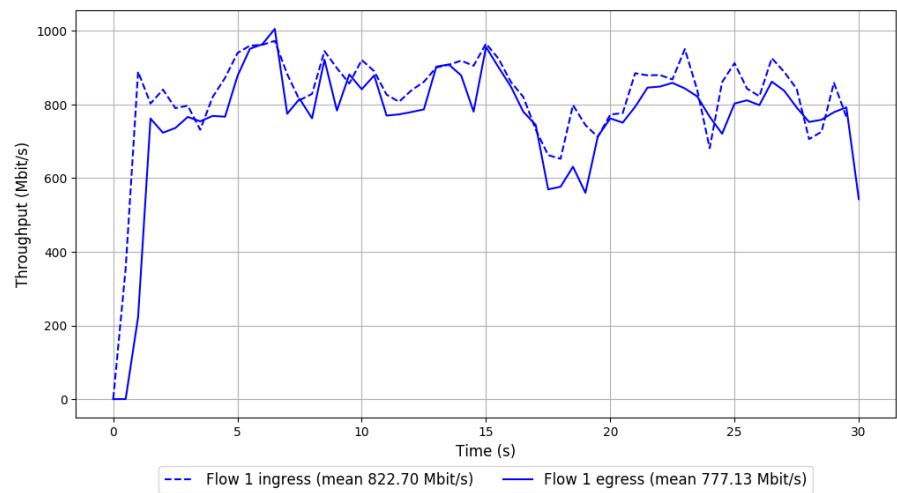


Run 4: Statistics of FillP

Start at: 2018-08-11 16:04:50
End at: 2018-08-11 16:05:20
Local clock offset: -0.62 ms
Remote clock offset: -0.248 ms

Below is generated by plot.py at 2018-08-11 19:18:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 777.13 Mbit/s
95th percentile per-packet one-way delay: 139.110 ms
Loss rate: 5.95%
-- Flow 1:
Average throughput: 777.13 Mbit/s
95th percentile per-packet one-way delay: 139.110 ms
Loss rate: 5.95%

Run 4: Report of FillP — Data Link

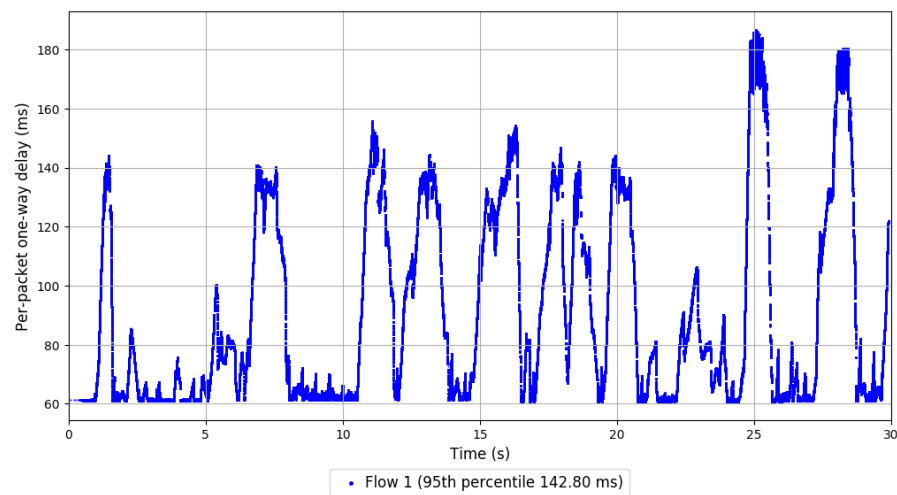
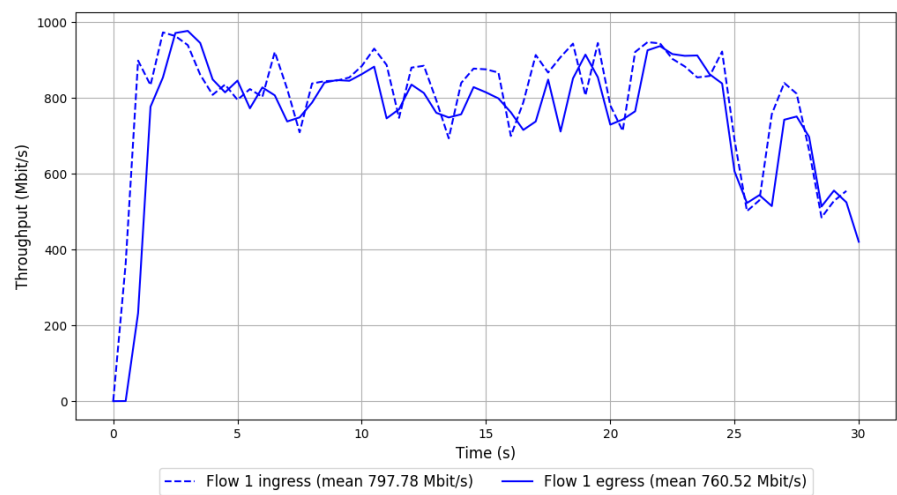


Run 5: Statistics of FillP

Start at: 2018-08-11 16:27:10
End at: 2018-08-11 16:27:41
Local clock offset: -0.668 ms
Remote clock offset: -0.118 ms

Below is generated by plot.py at 2018-08-11 19:18:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 760.52 Mbit/s
95th percentile per-packet one-way delay: 142.800 ms
Loss rate: 5.06%
-- Flow 1:
Average throughput: 760.52 Mbit/s
95th percentile per-packet one-way delay: 142.800 ms
Loss rate: 5.06%

Run 5: Report of FillP — Data Link

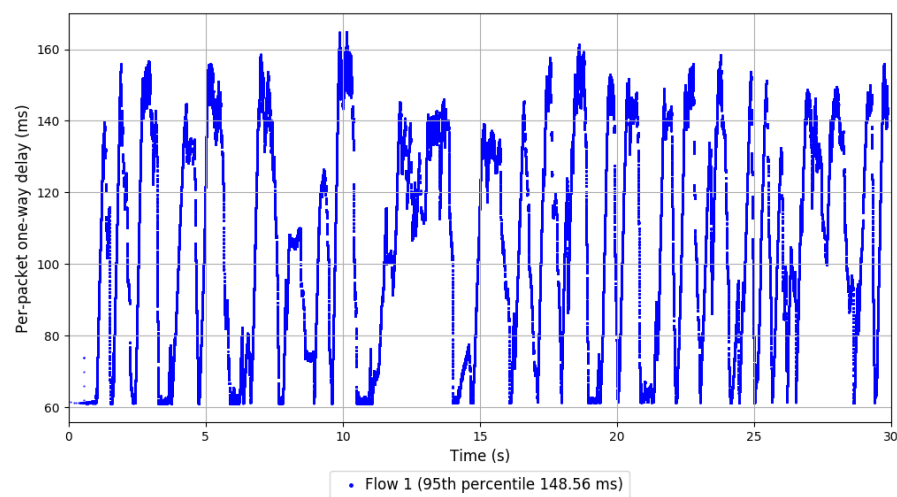
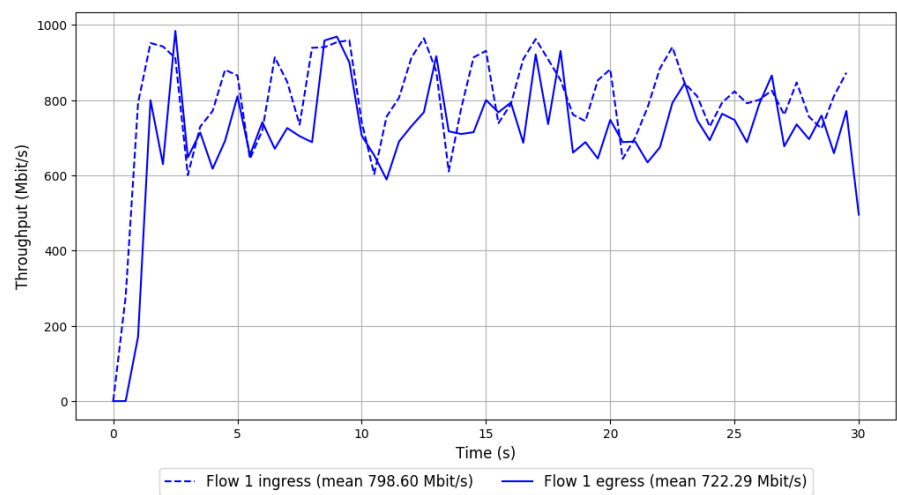


Run 6: Statistics of FillP

Start at: 2018-08-11 16:49:51
End at: 2018-08-11 16:50:21
Local clock offset: -0.696 ms
Remote clock offset: -0.083 ms

Below is generated by plot.py at 2018-08-11 19:18:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 722.29 Mbit/s
95th percentile per-packet one-way delay: 148.564 ms
Loss rate: 9.93%
-- Flow 1:
Average throughput: 722.29 Mbit/s
95th percentile per-packet one-way delay: 148.564 ms
Loss rate: 9.93%

Run 6: Report of FillP — Data Link

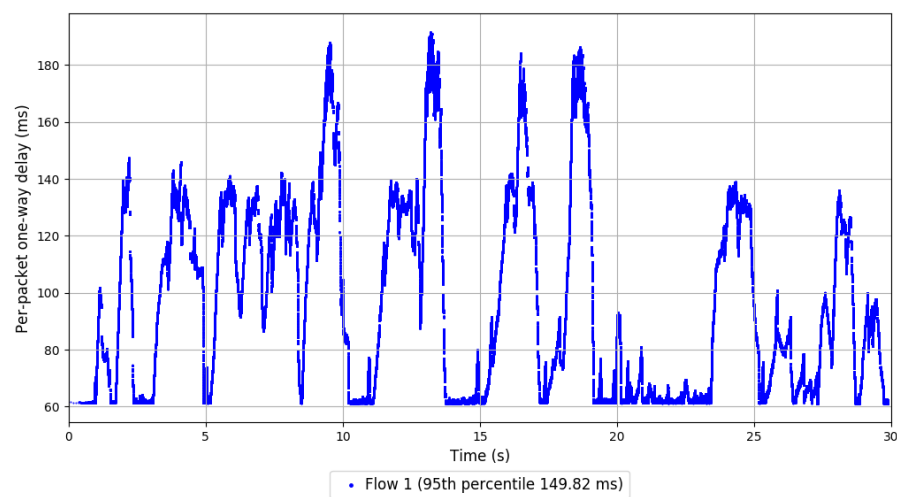
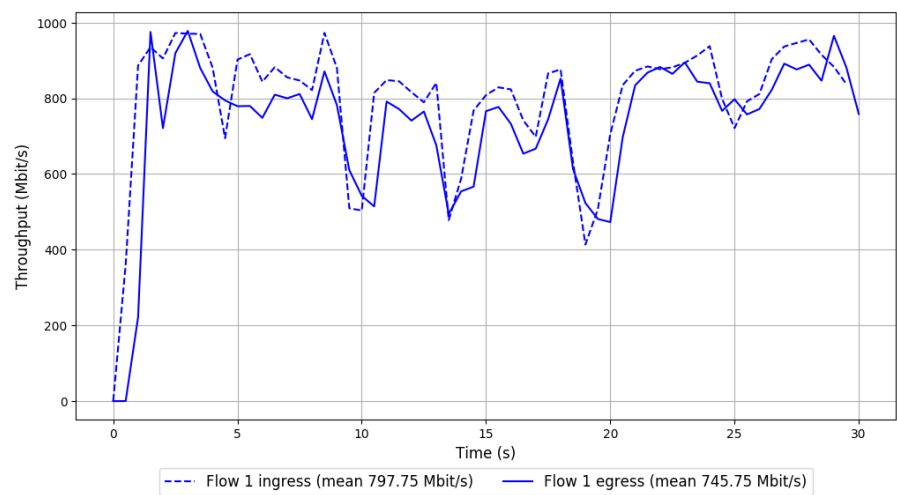


Run 7: Statistics of FillP

Start at: 2018-08-11 17:12:58
End at: 2018-08-11 17:13:28
Local clock offset: 0.162 ms
Remote clock offset: -0.248 ms

Below is generated by plot.py at 2018-08-11 19:18:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 745.75 Mbit/s
95th percentile per-packet one-way delay: 149.823 ms
Loss rate: 6.90%
-- Flow 1:
Average throughput: 745.75 Mbit/s
95th percentile per-packet one-way delay: 149.823 ms
Loss rate: 6.90%

Run 7: Report of FillP — Data Link

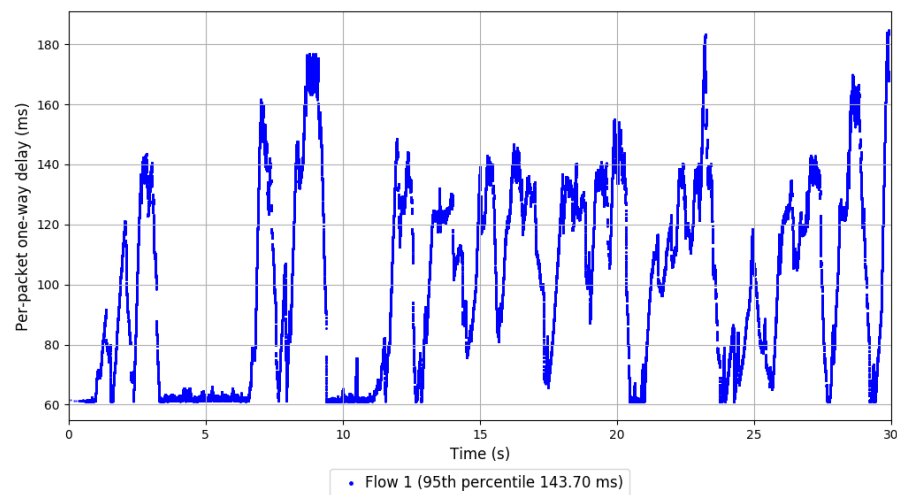
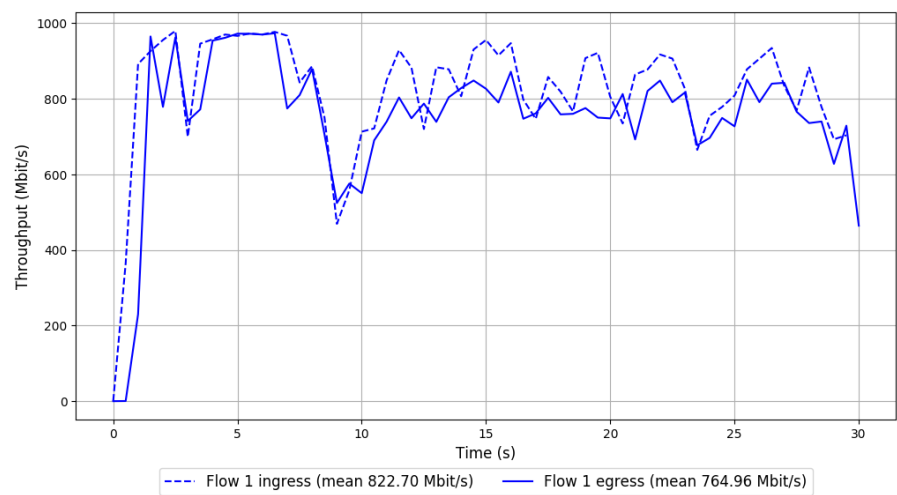


Run 8: Statistics of FillP

Start at: 2018-08-11 17:35:57
End at: 2018-08-11 17:36:27
Local clock offset: 0.445 ms
Remote clock offset: -0.095 ms

Below is generated by plot.py at 2018-08-11 19:19:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 764.96 Mbit/s
95th percentile per-packet one-way delay: 143.699 ms
Loss rate: 7.40%
-- Flow 1:
Average throughput: 764.96 Mbit/s
95th percentile per-packet one-way delay: 143.699 ms
Loss rate: 7.40%

Run 8: Report of FillP — Data Link

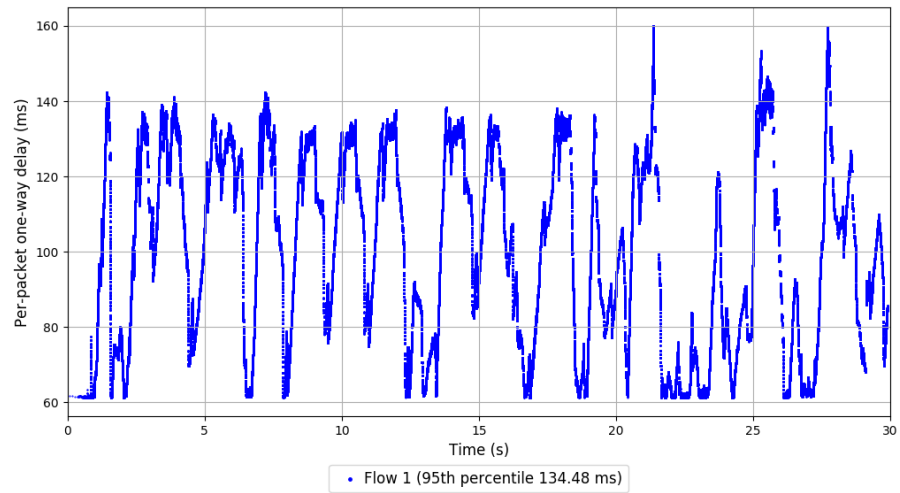
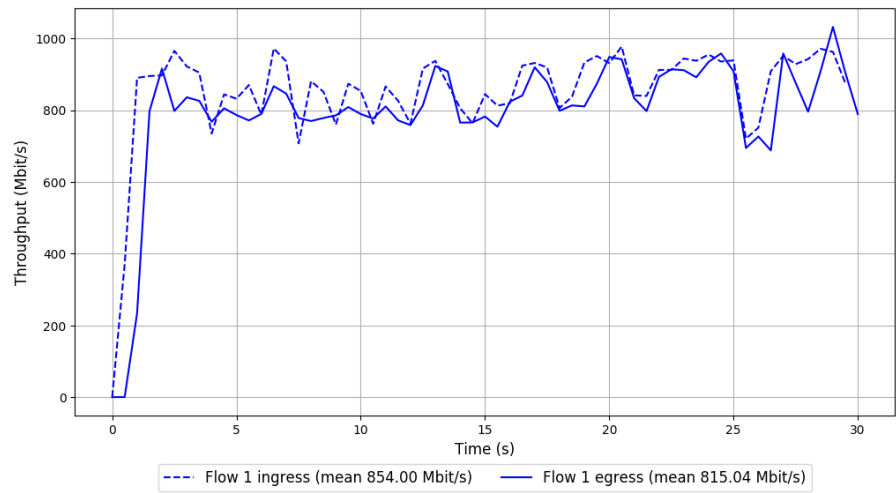


Run 9: Statistics of FillP

Start at: 2018-08-11 17:58:58
End at: 2018-08-11 17:59:28
Local clock offset: 0.67 ms
Remote clock offset: -0.561 ms

Below is generated by plot.py at 2018-08-11 19:34:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 815.04 Mbit/s
95th percentile per-packet one-way delay: 134.479 ms
Loss rate: 4.95%
-- Flow 1:
Average throughput: 815.04 Mbit/s
95th percentile per-packet one-way delay: 134.479 ms
Loss rate: 4.95%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-08-11 18:21:50

End at: 2018-08-11 18:22:20

Local clock offset: 0.936 ms

Remote clock offset: 0.051 ms

Below is generated by plot.py at 2018-08-11 19:35:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 852.91 Mbit/s

95th percentile per-packet one-way delay: 132.635 ms

Loss rate: 3.20%

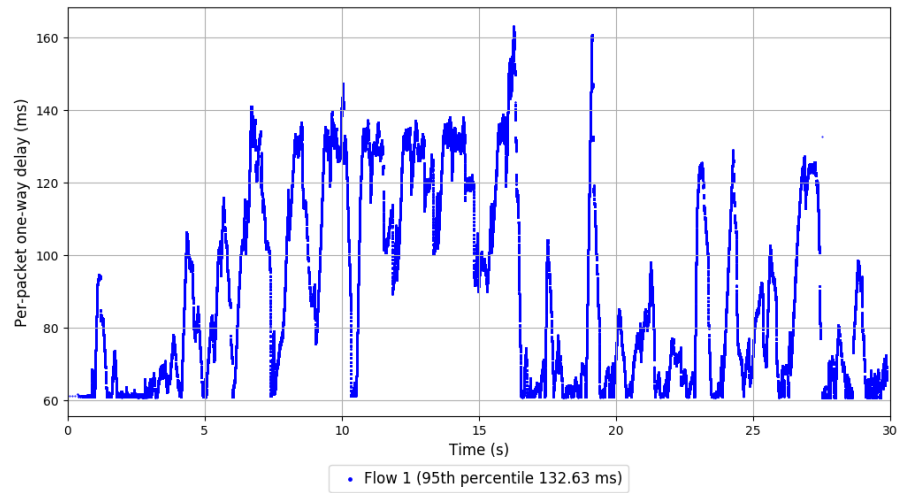
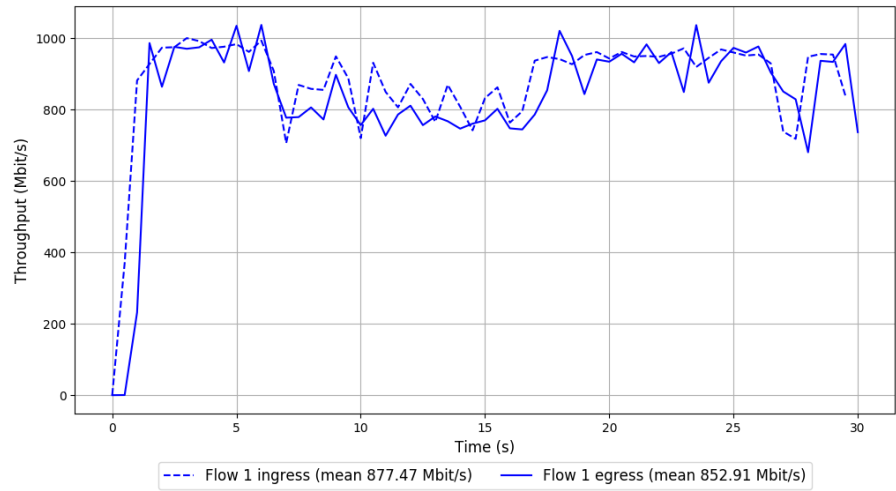
-- Flow 1:

Average throughput: 852.91 Mbit/s

95th percentile per-packet one-way delay: 132.635 ms

Loss rate: 3.20%

Run 10: Report of FillP — Data Link

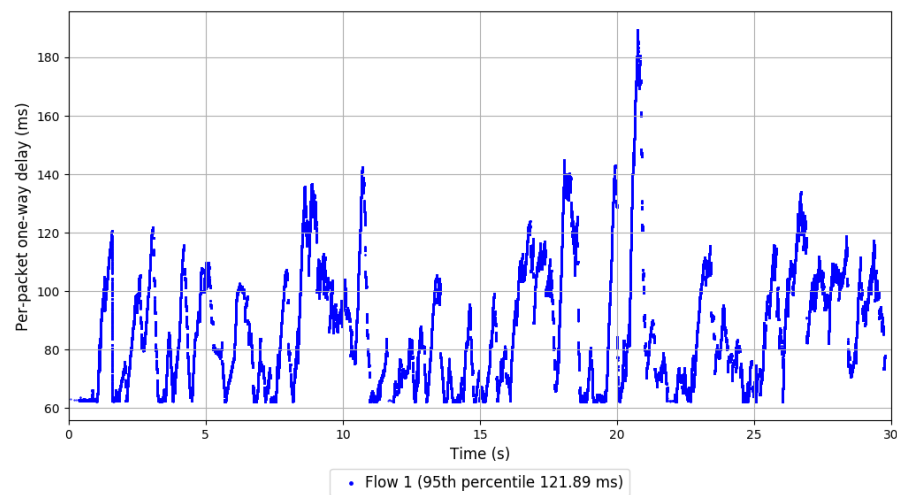
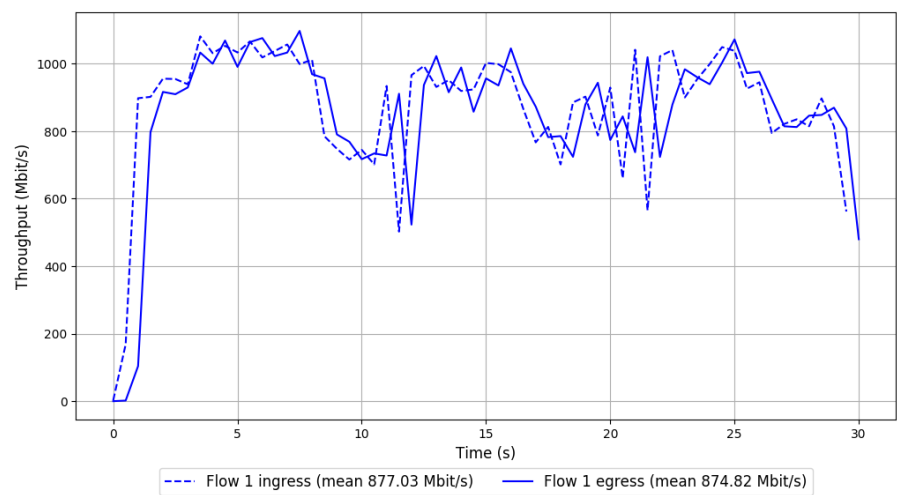


Run 1: Statistics of FillP-Sheep

Start at: 2018-08-11 14:42:01
End at: 2018-08-11 14:42:31
Local clock offset: -0.44 ms
Remote clock offset: -1.308 ms

Below is generated by plot.py at 2018-08-11 19:36:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 874.82 Mbit/s
95th percentile per-packet one-way delay: 121.885 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 874.82 Mbit/s
95th percentile per-packet one-way delay: 121.885 ms
Loss rate: 0.66%

Run 1: Report of FillP-Sheep — Data Link

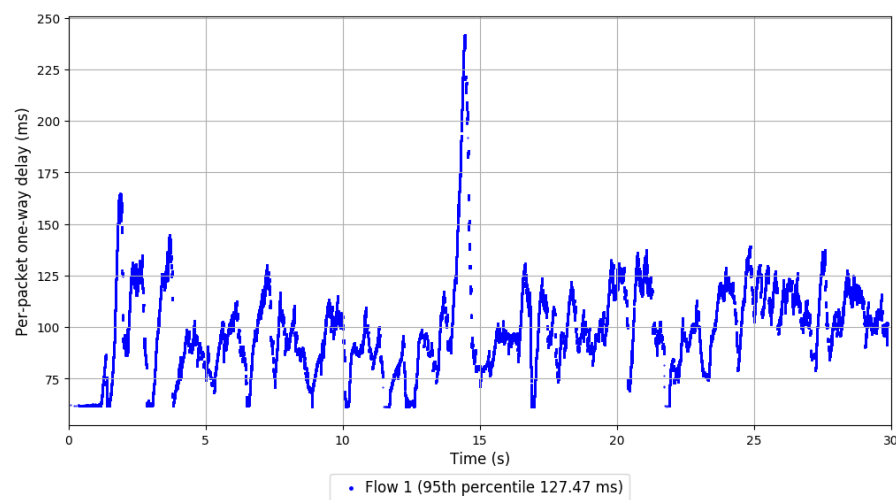
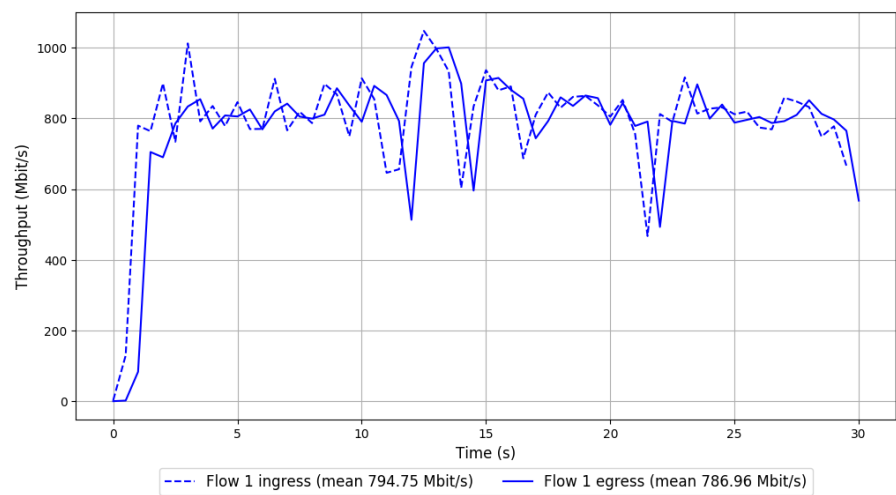


Run 2: Statistics of FillP-Sheep

Start at: 2018-08-11 15:04:47
End at: 2018-08-11 15:05:17
Local clock offset: -0.476 ms
Remote clock offset: -0.697 ms

Below is generated by plot.py at 2018-08-11 19:36:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 786.96 Mbit/s
95th percentile per-packet one-way delay: 127.473 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 786.96 Mbit/s
95th percentile per-packet one-way delay: 127.473 ms
Loss rate: 1.41%

Run 2: Report of FillP-Sheep — Data Link

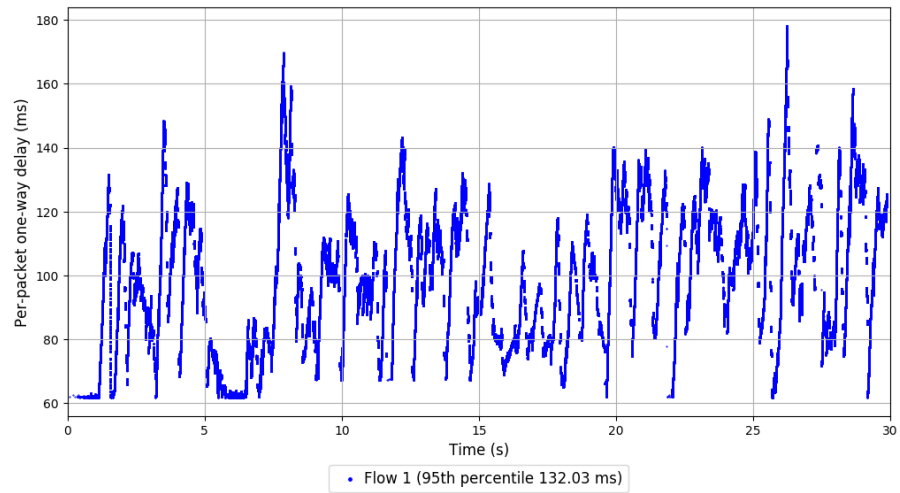
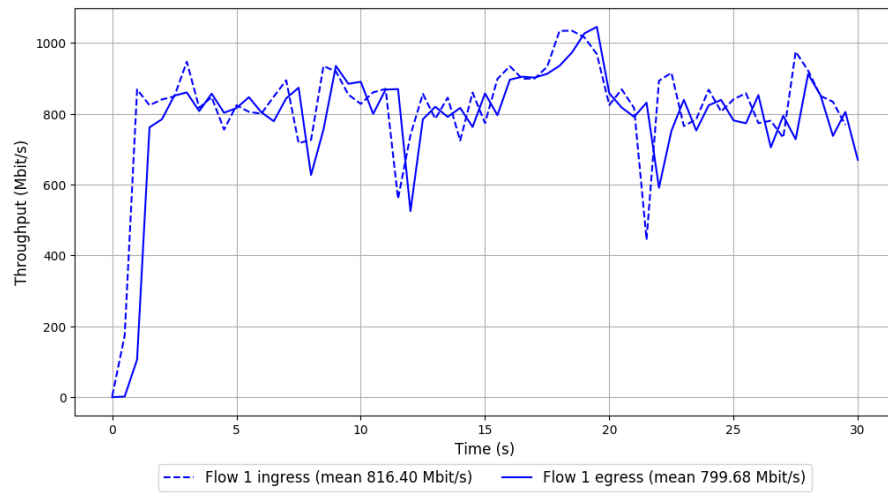


Run 3: Statistics of FillP-Sheep

Start at: 2018-08-11 15:27:37
End at: 2018-08-11 15:28:07
Local clock offset: -0.511 ms
Remote clock offset: -0.814 ms

Below is generated by plot.py at 2018-08-11 19:36:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 799.68 Mbit/s
95th percentile per-packet one-way delay: 132.034 ms
Loss rate: 2.47%
-- Flow 1:
Average throughput: 799.68 Mbit/s
95th percentile per-packet one-way delay: 132.034 ms
Loss rate: 2.47%

Run 3: Report of FillP-Sheep — Data Link

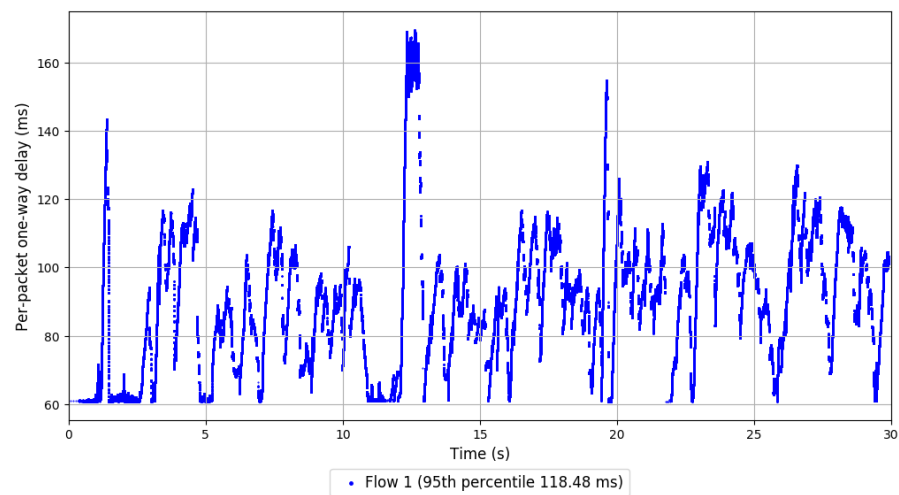
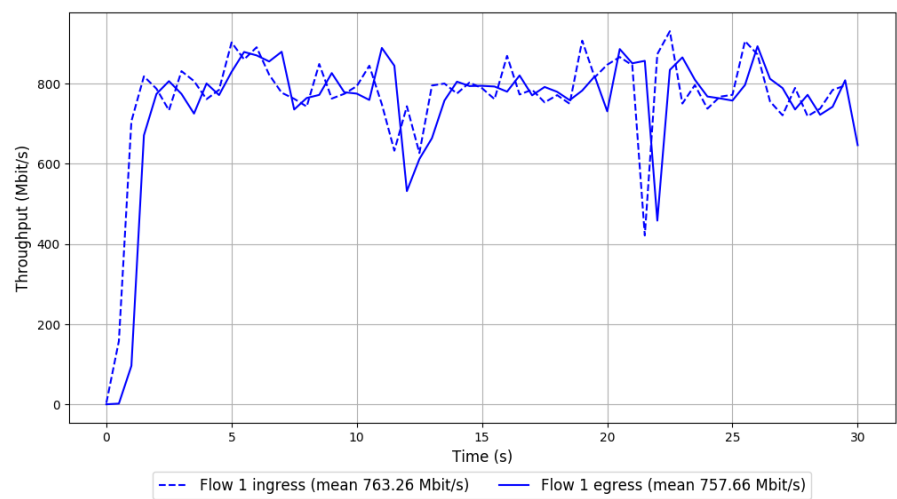


Run 4: Statistics of FillP-Sheep

Start at: 2018-08-11 15:50:35
End at: 2018-08-11 15:51:05
Local clock offset: -0.568 ms
Remote clock offset: -0.155 ms

Below is generated by plot.py at 2018-08-11 19:36:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 757.66 Mbit/s
95th percentile per-packet one-way delay: 118.477 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 757.66 Mbit/s
95th percentile per-packet one-way delay: 118.477 ms
Loss rate: 1.16%

Run 4: Report of FillP-Sheep — Data Link

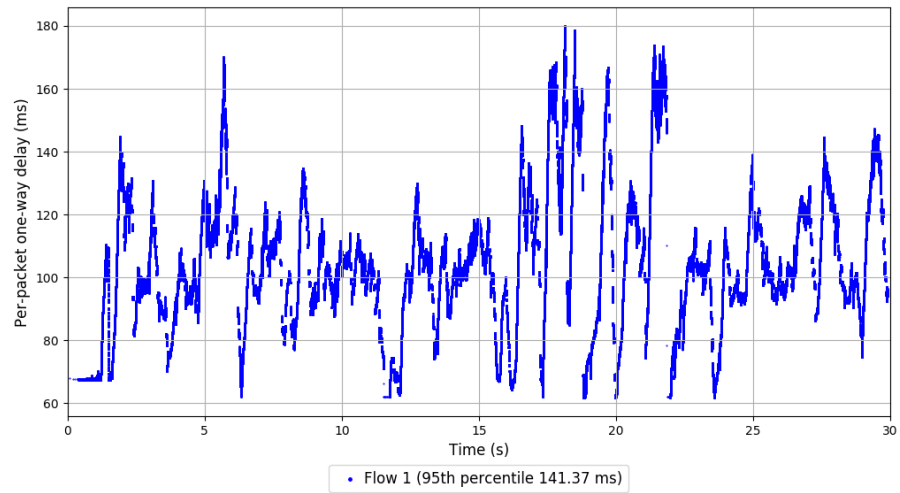
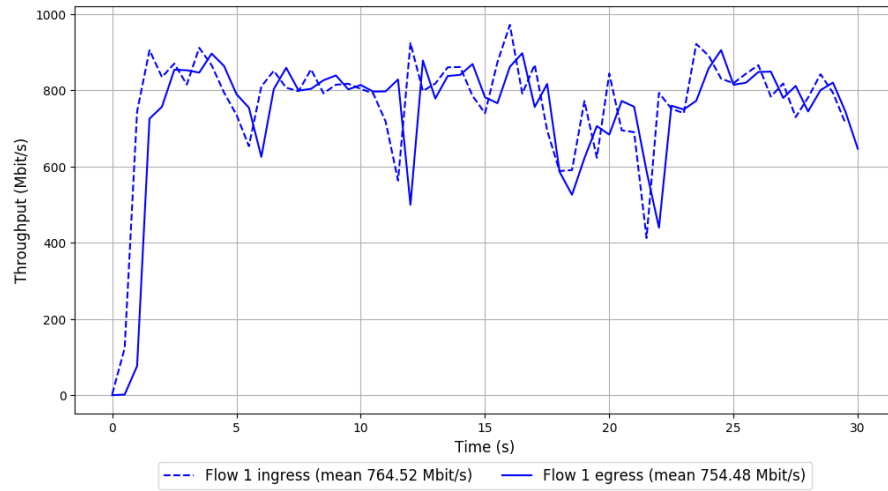


Run 5: Statistics of FillP-Sheep

Start at: 2018-08-11 16:12:49
End at: 2018-08-11 16:13:19
Local clock offset: -0.589 ms
Remote clock offset: -0.934 ms

Below is generated by plot.py at 2018-08-11 19:36:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 754.48 Mbit/s
95th percentile per-packet one-way delay: 141.368 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 754.48 Mbit/s
95th percentile per-packet one-way delay: 141.368 ms
Loss rate: 1.74%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-08-11 16:35:10

End at: 2018-08-11 16:35:40

Local clock offset: -0.716 ms

Remote clock offset: 0.122 ms

Below is generated by plot.py at 2018-08-11 19:37:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 813.11 Mbit/s

95th percentile per-packet one-way delay: 127.563 ms

Loss rate: 1.86%

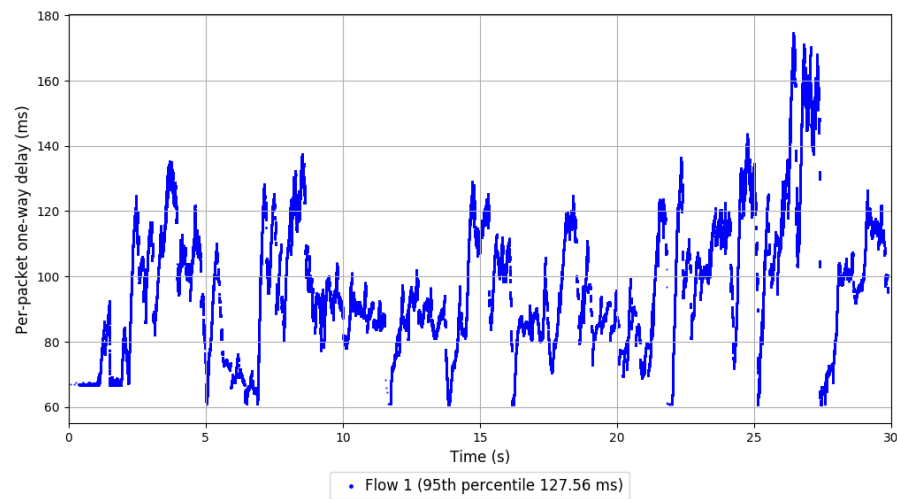
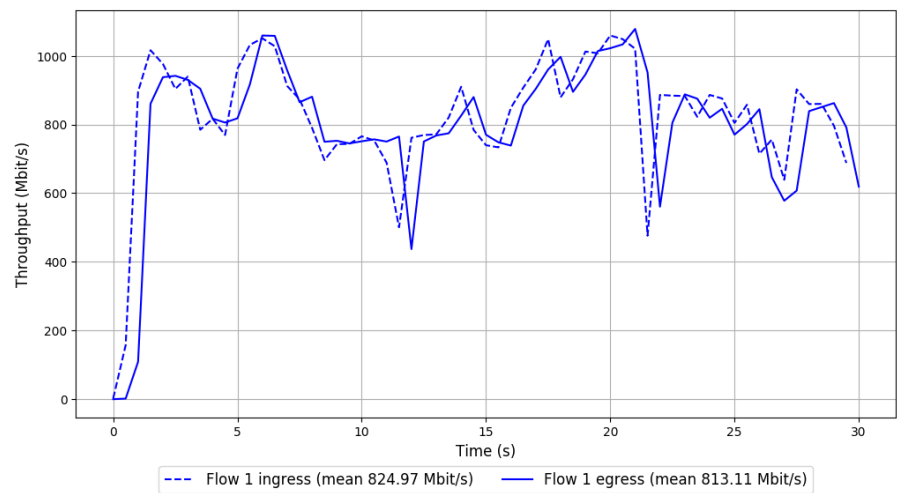
-- Flow 1:

Average throughput: 813.11 Mbit/s

95th percentile per-packet one-way delay: 127.563 ms

Loss rate: 1.86%

Run 6: Report of FillP-Sheep — Data Link

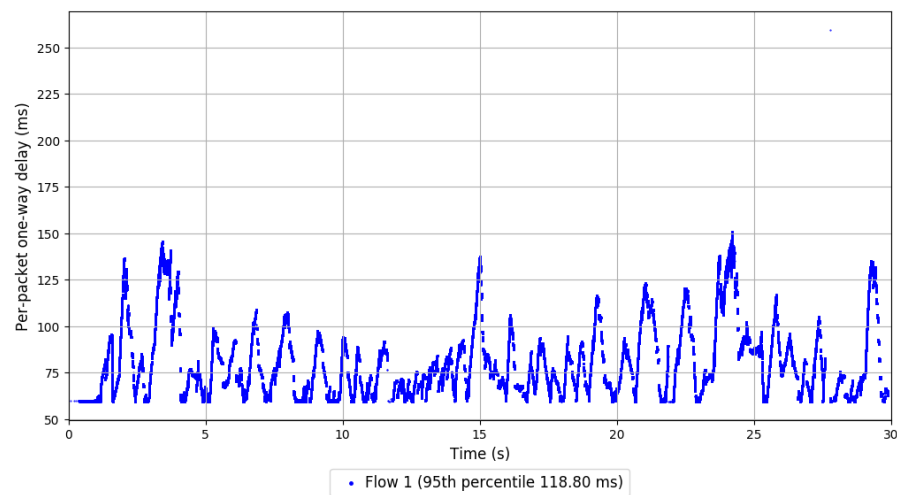
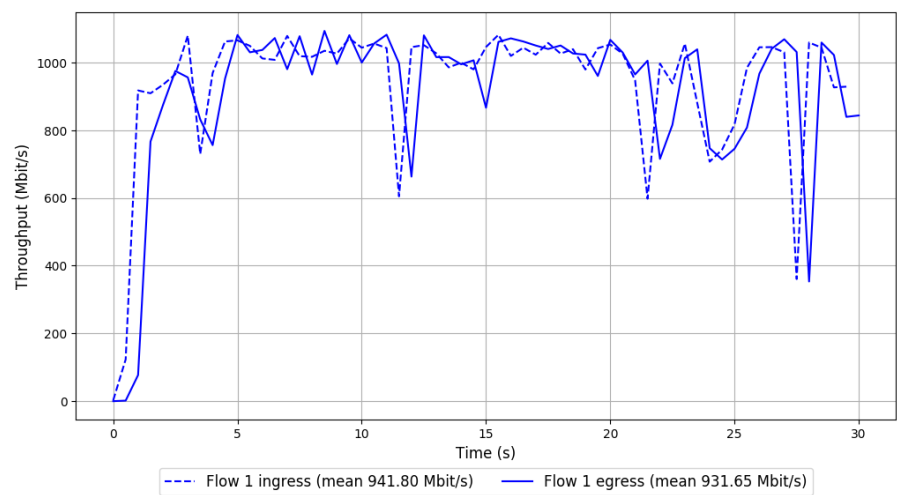


Run 7: Statistics of FillP-Sheep

Start at: 2018-08-11 16:58:16
End at: 2018-08-11 16:58:46
Local clock offset: -0.343 ms
Remote clock offset: 1.216 ms

Below is generated by plot.py at 2018-08-11 19:55:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 931.65 Mbit/s
95th percentile per-packet one-way delay: 118.801 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 931.65 Mbit/s
95th percentile per-packet one-way delay: 118.801 ms
Loss rate: 1.48%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-08-11 17:21:26

End at: 2018-08-11 17:21:56

Local clock offset: 0.301 ms

Remote clock offset: -0.78 ms

Below is generated by plot.py at 2018-08-11 19:55:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 735.93 Mbit/s

95th percentile per-packet one-way delay: 135.969 ms

Loss rate: 1.69%

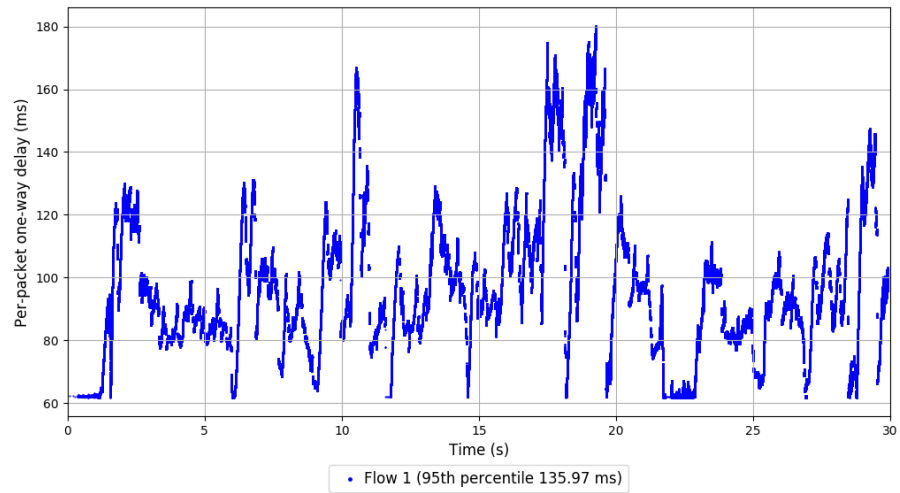
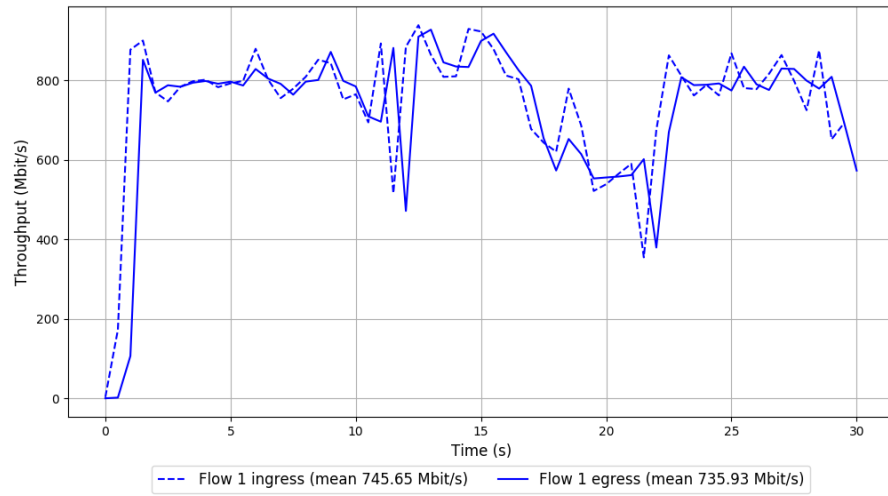
-- Flow 1:

Average throughput: 735.93 Mbit/s

95th percentile per-packet one-way delay: 135.969 ms

Loss rate: 1.69%

Run 8: Report of FillP-Sheep — Data Link

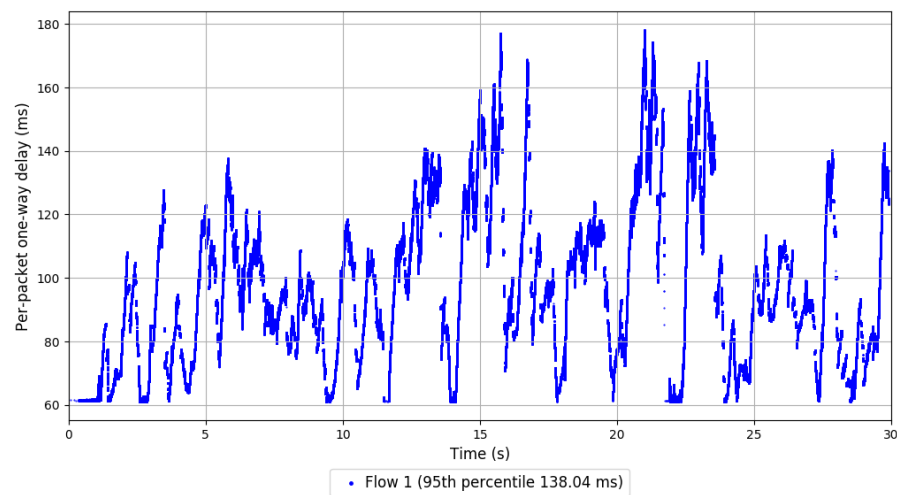
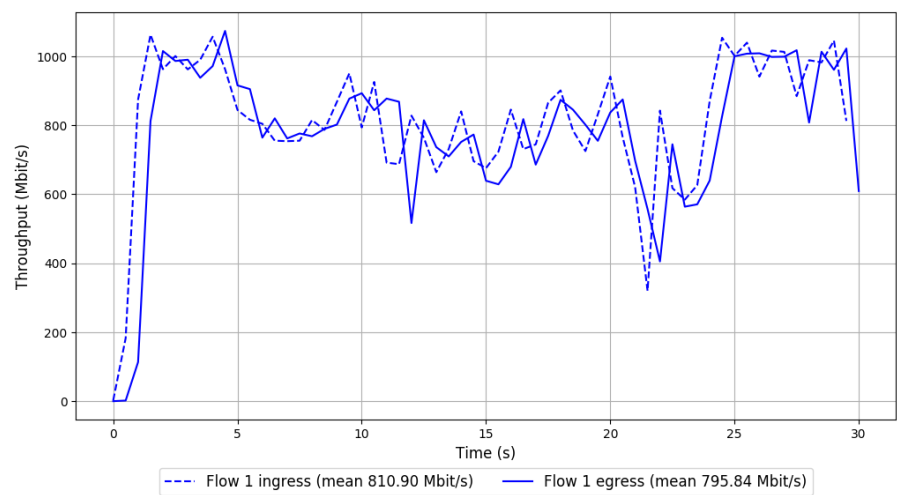


Run 9: Statistics of FillP-Sheep

Start at: 2018-08-11 17:44:23
End at: 2018-08-11 17:44:53
Local clock offset: 0.512 ms
Remote clock offset: -0.265 ms

Below is generated by plot.py at 2018-08-11 19:55:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 795.84 Mbit/s
95th percentile per-packet one-way delay: 138.037 ms
Loss rate: 2.26%
-- Flow 1:
Average throughput: 795.84 Mbit/s
95th percentile per-packet one-way delay: 138.037 ms
Loss rate: 2.26%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-08-11 18:07:19

End at: 2018-08-11 18:07:49

Local clock offset: 0.772 ms

Remote clock offset: 0.013 ms

Below is generated by plot.py at 2018-08-11 19:55:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 752.88 Mbit/s

95th percentile per-packet one-way delay: 146.929 ms

Loss rate: 3.65%

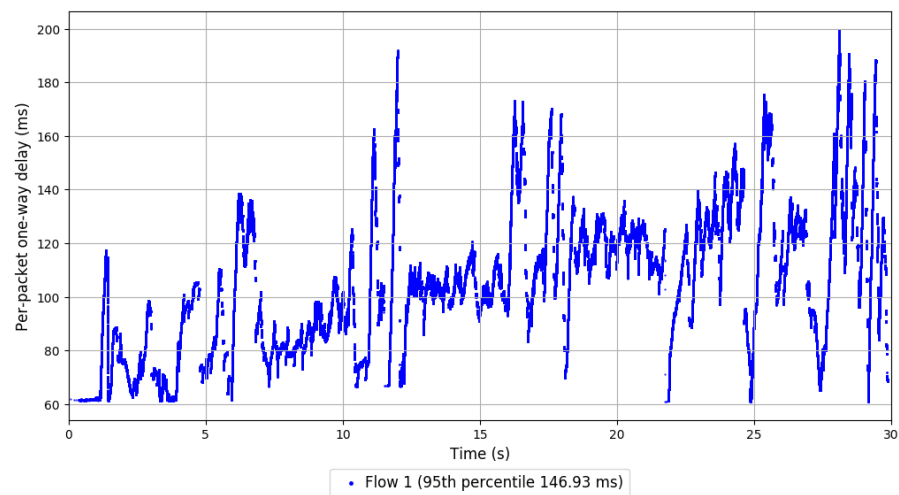
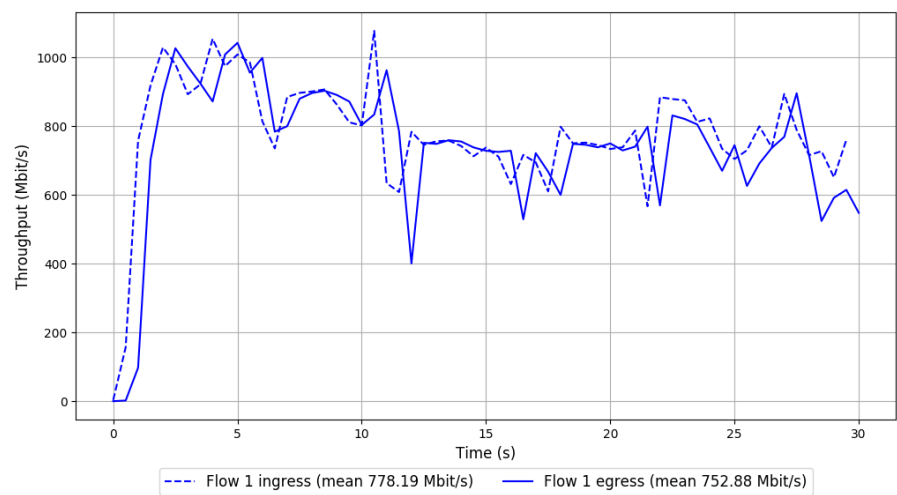
-- Flow 1:

Average throughput: 752.88 Mbit/s

95th percentile per-packet one-way delay: 146.929 ms

Loss rate: 3.65%

Run 10: Report of FillP-Sheep — Data Link

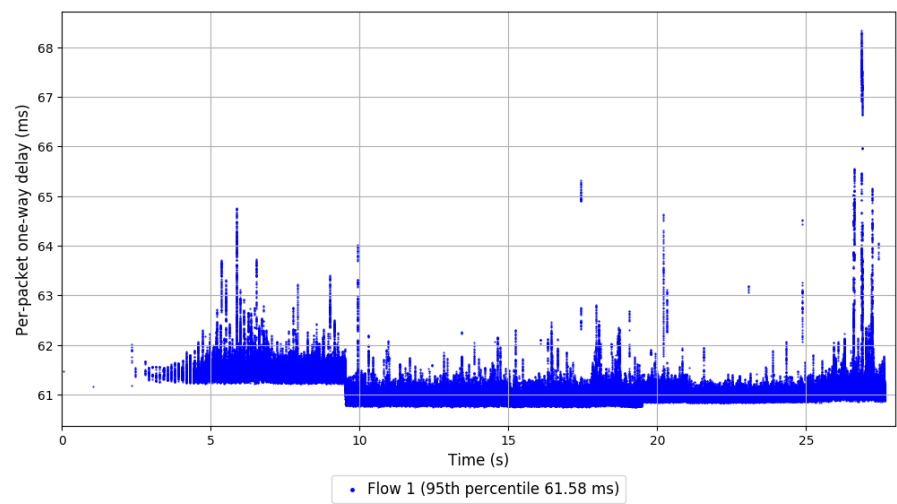
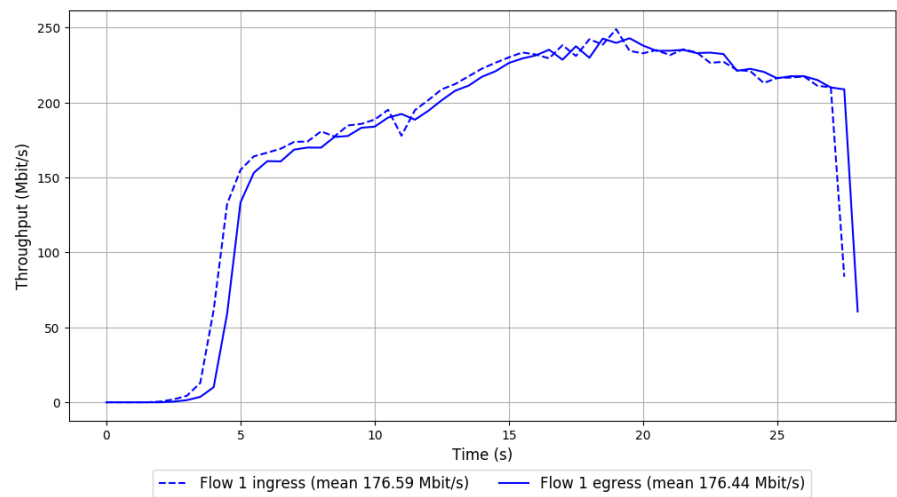


Run 1: Statistics of Indigo

Start at: 2018-08-11 14:55:13
End at: 2018-08-11 14:55:43
Local clock offset: -0.416 ms
Remote clock offset: -0.081 ms

Below is generated by plot.py at 2018-08-11 19:55:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 176.44 Mbit/s
95th percentile per-packet one-way delay: 61.578 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 176.44 Mbit/s
95th percentile per-packet one-way delay: 61.578 ms
Loss rate: 0.52%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-08-11 15:17:59

End at: 2018-08-11 15:18:29

Local clock offset: -0.511 ms

Remote clock offset: 0.66 ms

Below is generated by plot.py at 2018-08-11 19:55:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.01 Mbit/s

95th percentile per-packet one-way delay: 60.629 ms

Loss rate: 0.41%

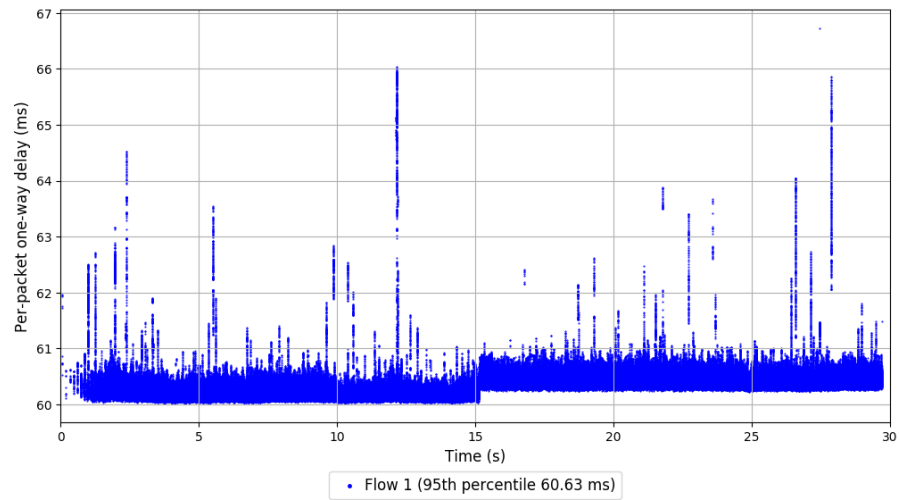
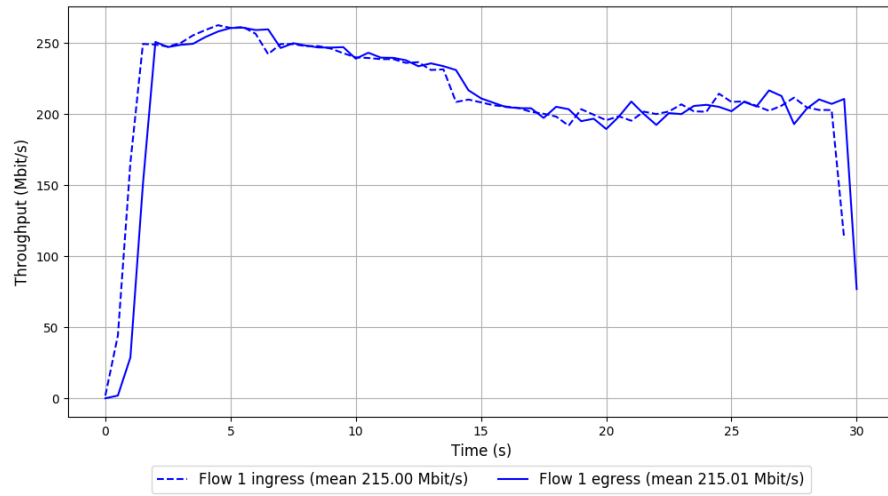
-- Flow 1:

Average throughput: 215.01 Mbit/s

95th percentile per-packet one-way delay: 60.629 ms

Loss rate: 0.41%

Run 2: Report of Indigo — Data Link

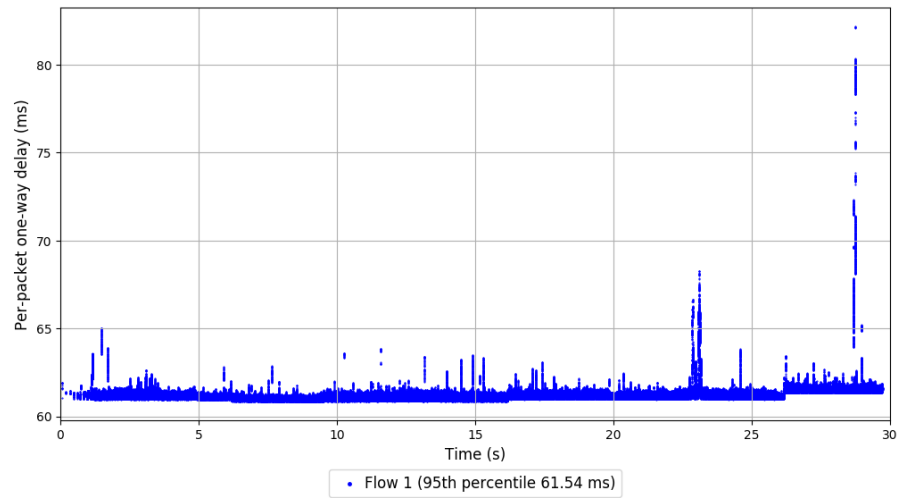
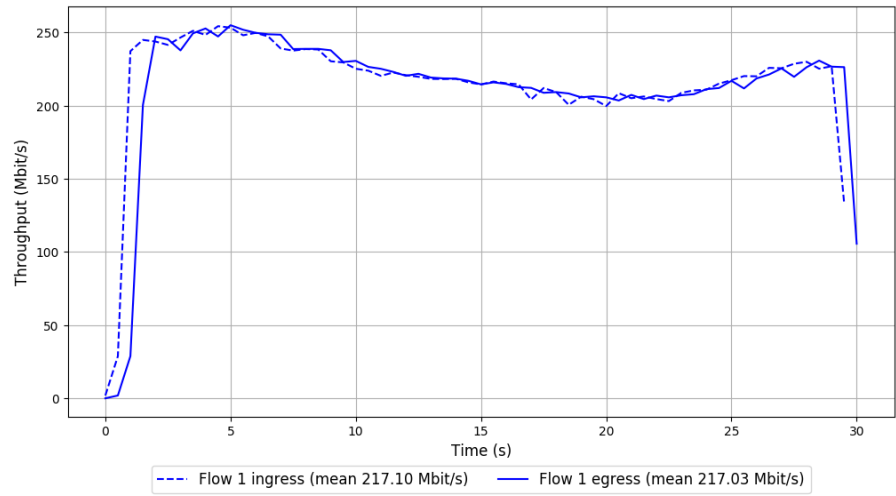


Run 3: Statistics of Indigo

Start at: 2018-08-11 15:40:58
End at: 2018-08-11 15:41:28
Local clock offset: -0.541 ms
Remote clock offset: -0.296 ms

Below is generated by plot.py at 2018-08-11 19:55:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 217.03 Mbit/s
95th percentile per-packet one-way delay: 61.542 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 217.03 Mbit/s
95th percentile per-packet one-way delay: 61.542 ms
Loss rate: 0.44%

Run 3: Report of Indigo — Data Link

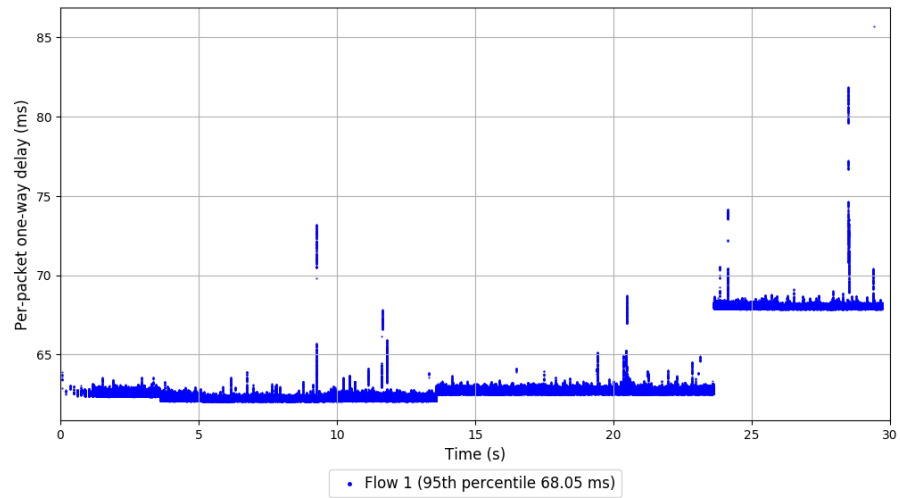
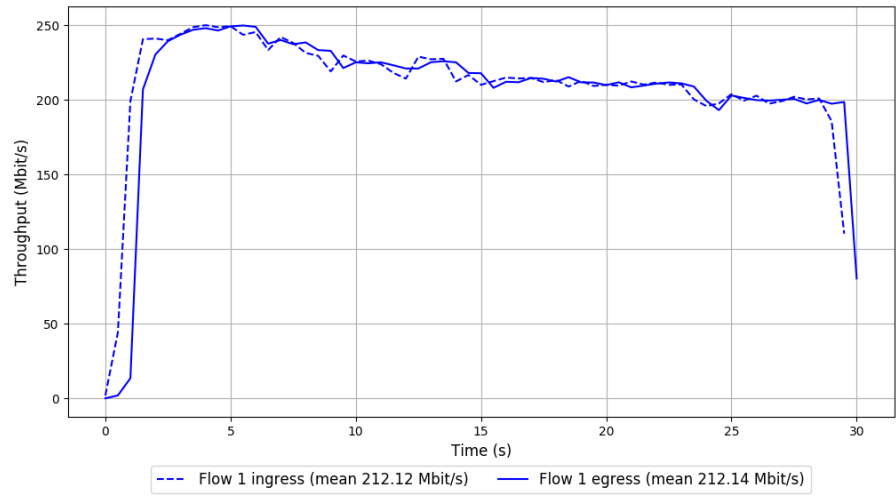


Run 4: Statistics of Indigo

Start at: 2018-08-11 16:03:31
End at: 2018-08-11 16:04:01
Local clock offset: -0.58 ms
Remote clock offset: -1.499 ms

Below is generated by plot.py at 2018-08-11 19:55:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 212.14 Mbit/s
95th percentile per-packet one-way delay: 68.054 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 212.14 Mbit/s
95th percentile per-packet one-way delay: 68.054 ms
Loss rate: 0.40%

Run 4: Report of Indigo — Data Link

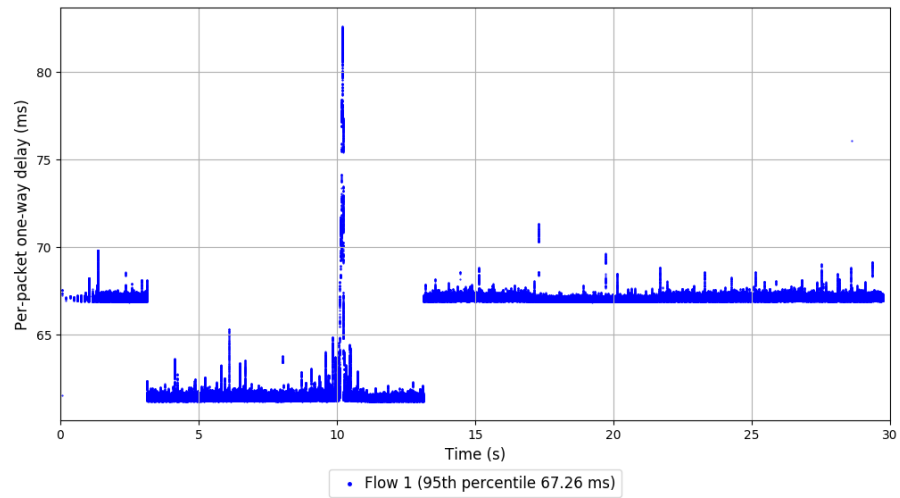
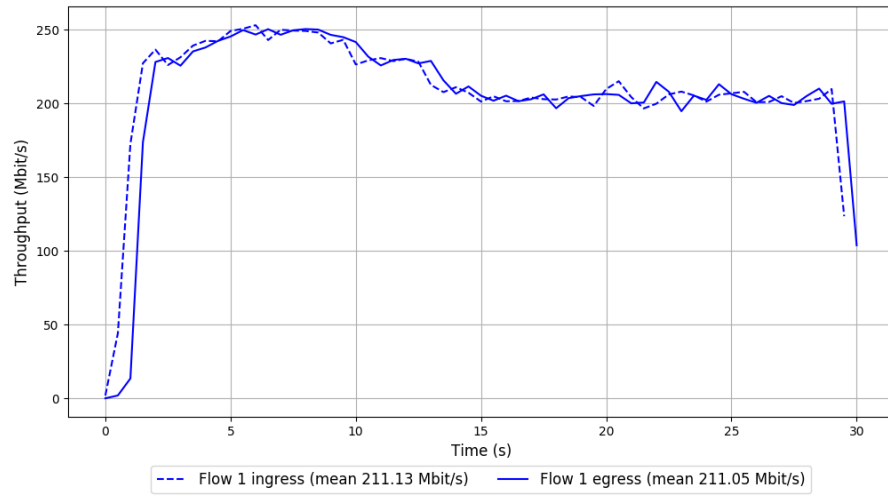


Run 5: Statistics of Indigo

Start at: 2018-08-11 16:25:51
End at: 2018-08-11 16:26:21
Local clock offset: -0.68 ms
Remote clock offset: -0.533 ms

Below is generated by plot.py at 2018-08-11 19:55:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 211.05 Mbit/s
95th percentile per-packet one-way delay: 67.256 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 211.05 Mbit/s
95th percentile per-packet one-way delay: 67.256 ms
Loss rate: 0.42%

Run 5: Report of Indigo — Data Link

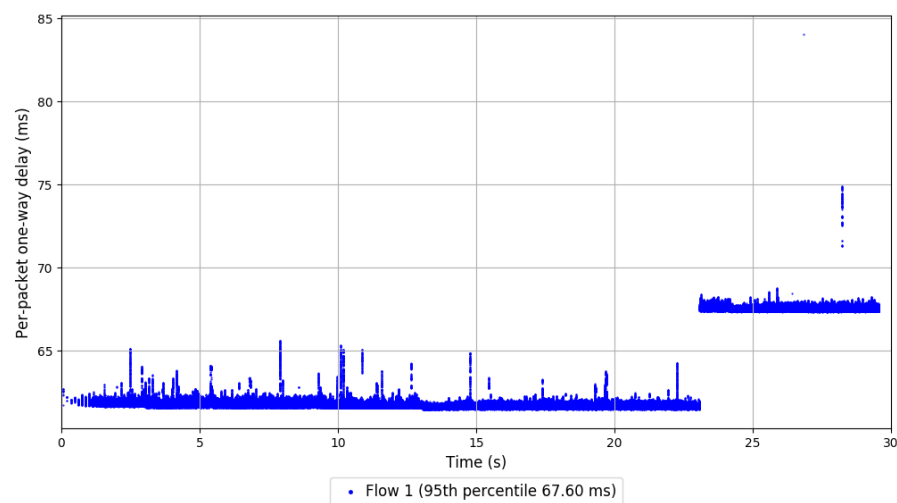
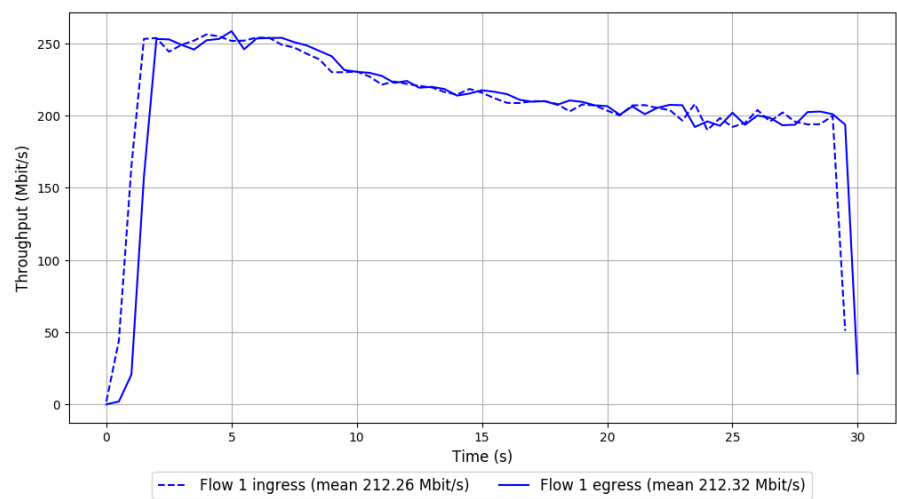


Run 6: Statistics of Indigo

Start at: 2018-08-11 16:48:31
End at: 2018-08-11 16:49:01
Local clock offset: -0.778 ms
Remote clock offset: -0.768 ms

Below is generated by plot.py at 2018-08-11 19:55:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 212.32 Mbit/s
95th percentile per-packet one-way delay: 67.604 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 212.32 Mbit/s
95th percentile per-packet one-way delay: 67.604 ms
Loss rate: 0.40%

Run 6: Report of Indigo — Data Link

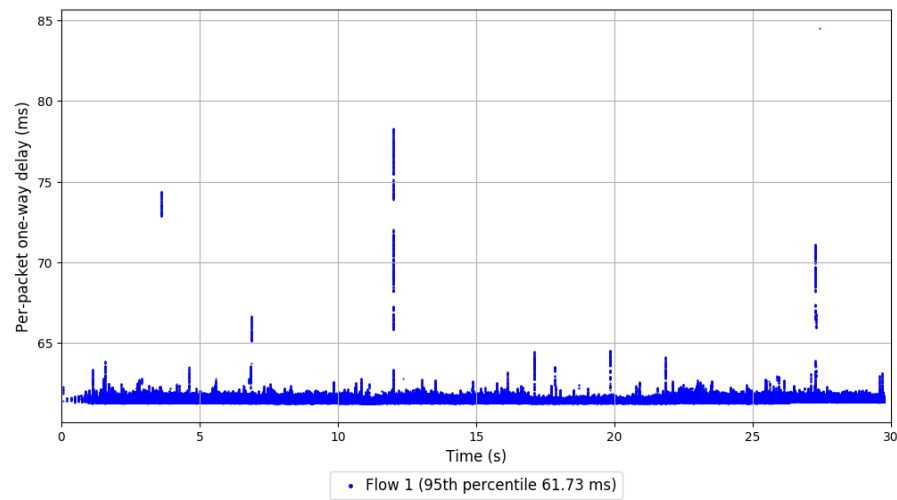
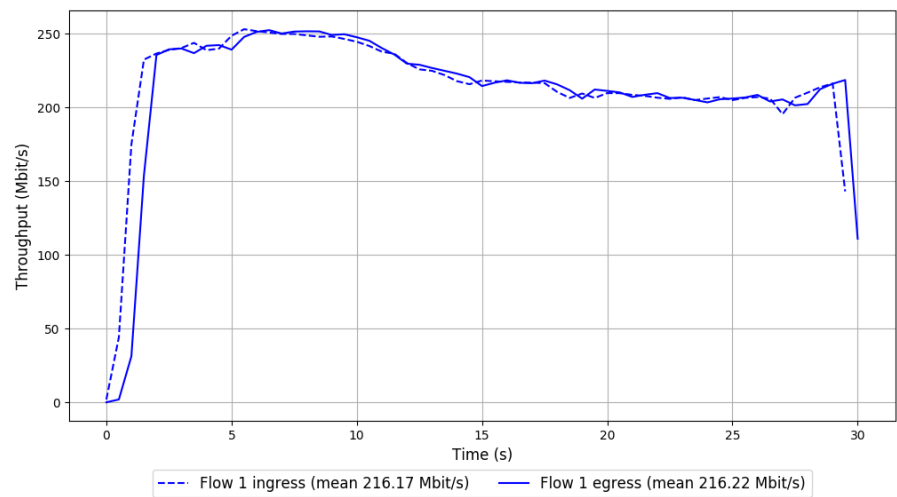


Run 7: Statistics of Indigo

Start at: 2018-08-11 17:11:38
End at: 2018-08-11 17:12:08
Local clock offset: 0.115 ms
Remote clock offset: -0.353 ms

Below is generated by plot.py at 2018-08-11 19:55:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 216.22 Mbit/s
95th percentile per-packet one-way delay: 61.725 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 216.22 Mbit/s
95th percentile per-packet one-way delay: 61.725 ms
Loss rate: 0.39%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-08-11 17:34:38

End at: 2018-08-11 17:35:08

Local clock offset: 0.484 ms

Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-08-11 19:55:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.25 Mbit/s

95th percentile per-packet one-way delay: 61.353 ms

Loss rate: 0.43%

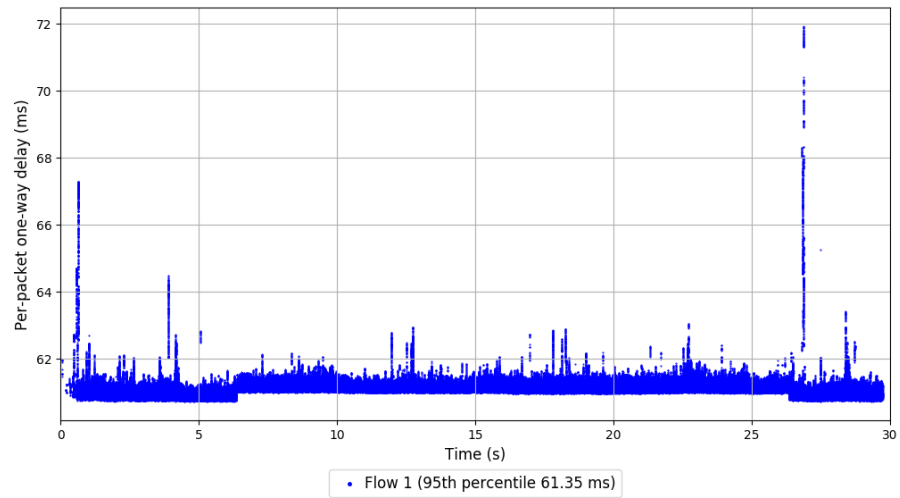
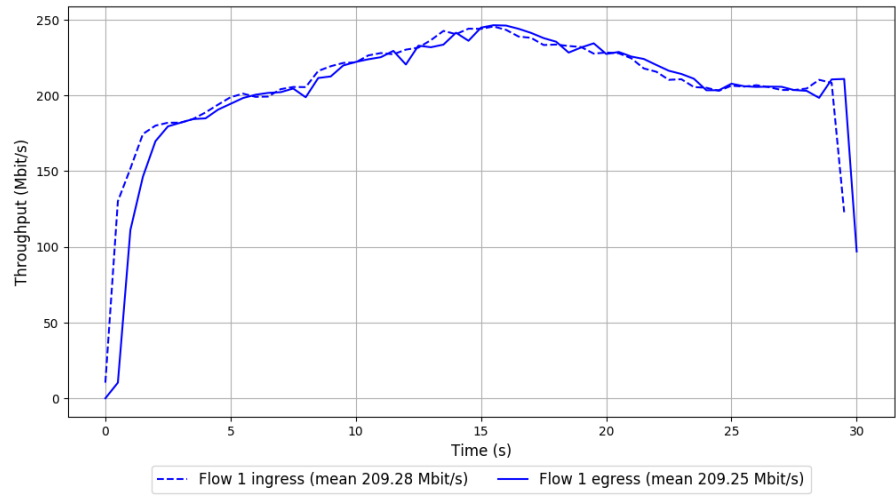
-- Flow 1:

Average throughput: 209.25 Mbit/s

95th percentile per-packet one-way delay: 61.353 ms

Loss rate: 0.43%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-08-11 17:57:39

End at: 2018-08-11 17:58:09

Local clock offset: 0.672 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-08-11 19:55:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.58 Mbit/s

95th percentile per-packet one-way delay: 66.827 ms

Loss rate: 0.39%

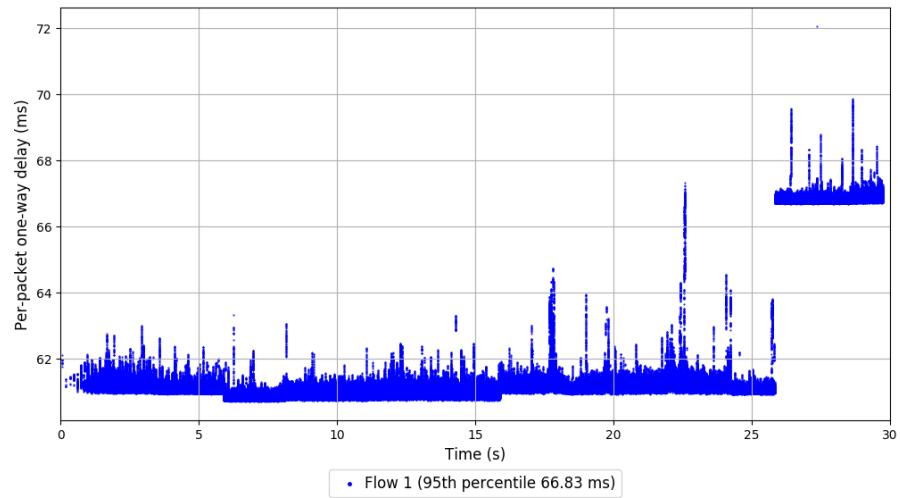
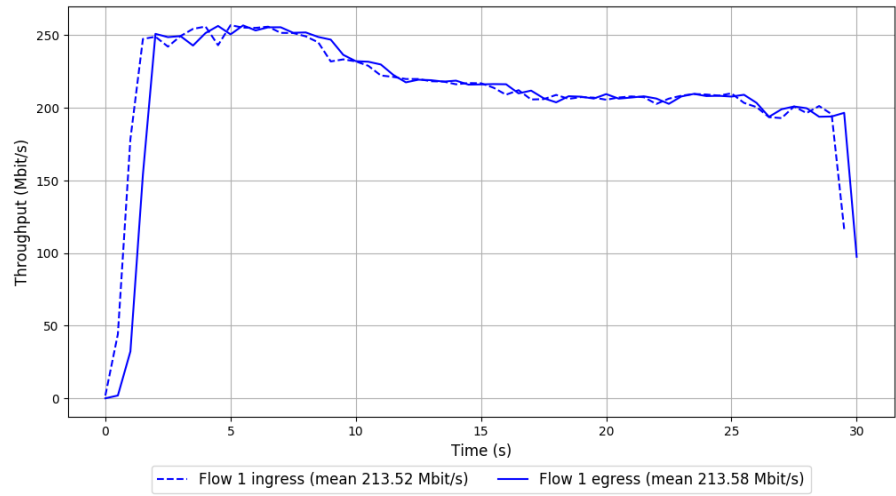
-- Flow 1:

Average throughput: 213.58 Mbit/s

95th percentile per-packet one-way delay: 66.827 ms

Loss rate: 0.39%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-08-11 18:20:31

End at: 2018-08-11 18:21:01

Local clock offset: 0.926 ms

Remote clock offset: 0.318 ms

Below is generated by plot.py at 2018-08-11 19:55:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.84 Mbit/s

95th percentile per-packet one-way delay: 60.924 ms

Loss rate: 0.42%

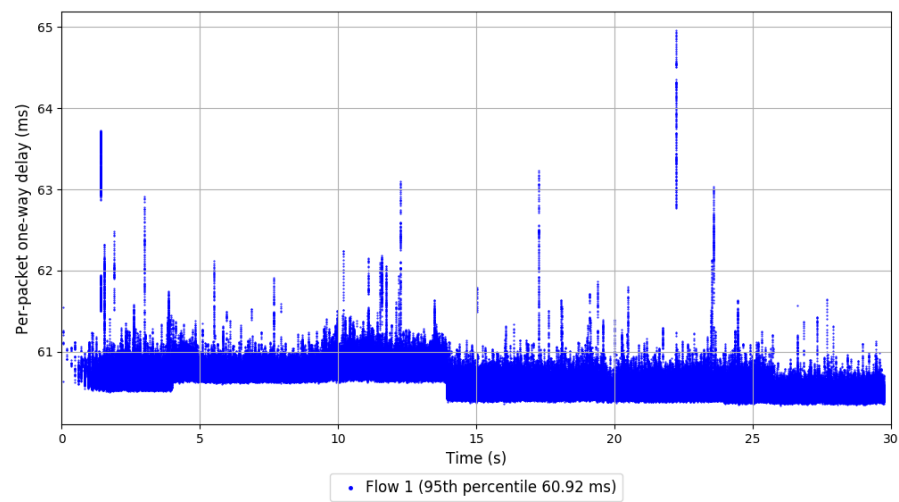
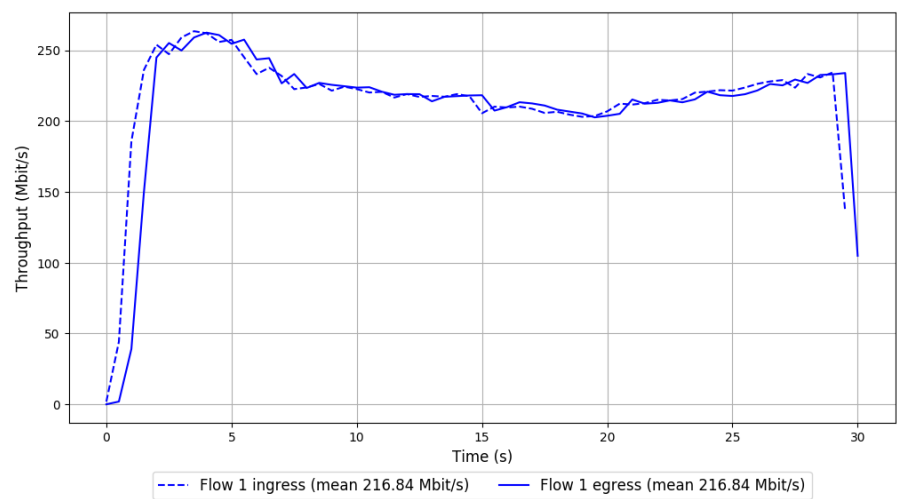
-- Flow 1:

Average throughput: 216.84 Mbit/s

95th percentile per-packet one-way delay: 60.924 ms

Loss rate: 0.42%

Run 10: Report of Indigo — Data Link

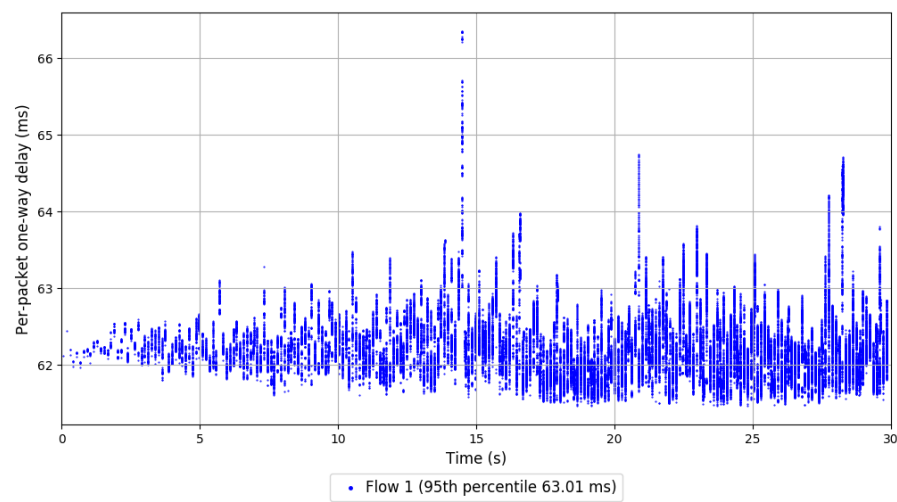
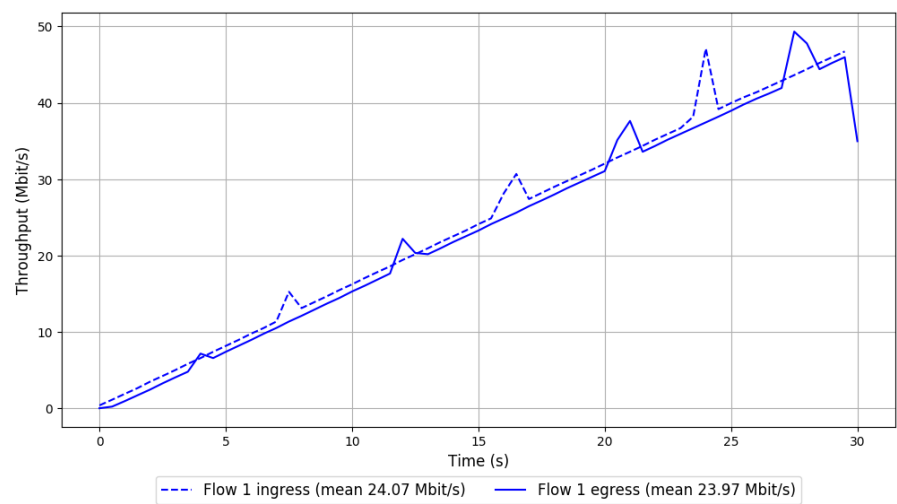


Run 1: Statistics of LEDBAT

Start at: 2018-08-11 14:48:37
End at: 2018-08-11 14:49:07
Local clock offset: -0.417 ms
Remote clock offset: -0.783 ms

Below is generated by plot.py at 2018-08-11 19:55:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 23.97 Mbit/s
95th percentile per-packet one-way delay: 63.013 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 23.97 Mbit/s
95th percentile per-packet one-way delay: 63.013 ms
Loss rate: 0.82%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-08-11 15:11:22

End at: 2018-08-11 15:11:52

Local clock offset: -0.504 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-08-11 19:55:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.47 Mbit/s

95th percentile per-packet one-way delay: 62.635 ms

Loss rate: 0.88%

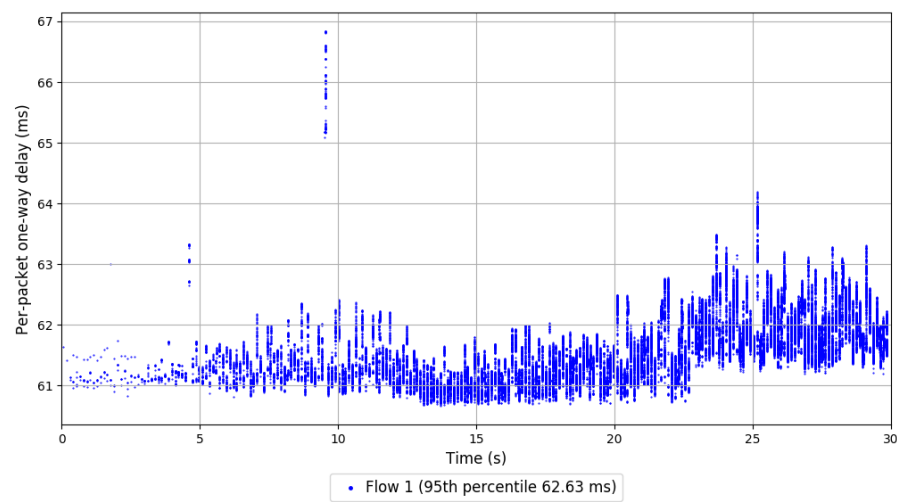
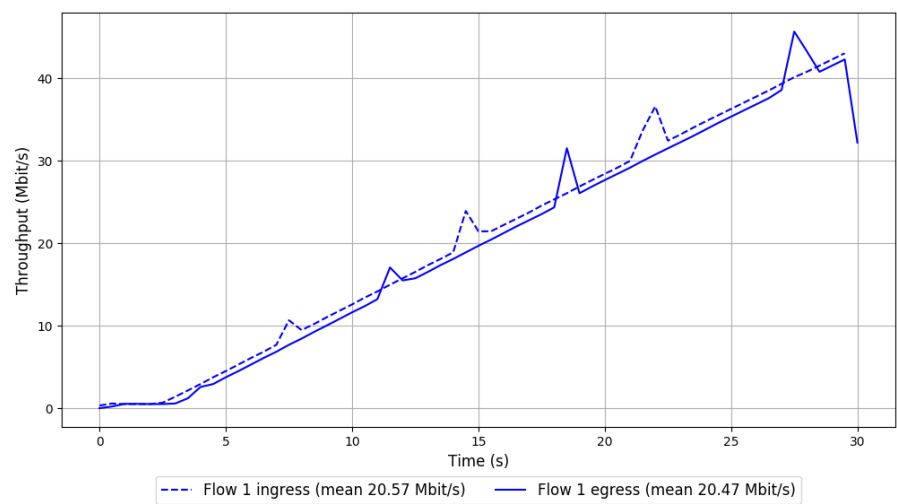
-- Flow 1:

Average throughput: 20.47 Mbit/s

95th percentile per-packet one-way delay: 62.635 ms

Loss rate: 0.88%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-08-11 15:34:13

End at: 2018-08-11 15:34:43

Local clock offset: -0.549 ms

Remote clock offset: 0.602 ms

Below is generated by plot.py at 2018-08-11 19:55:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.02 Mbit/s

95th percentile per-packet one-way delay: 61.713 ms

Loss rate: 0.81%

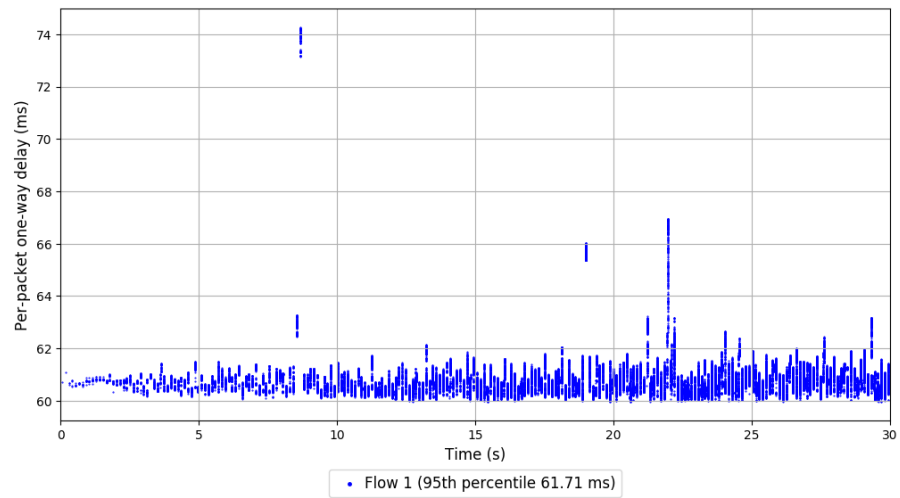
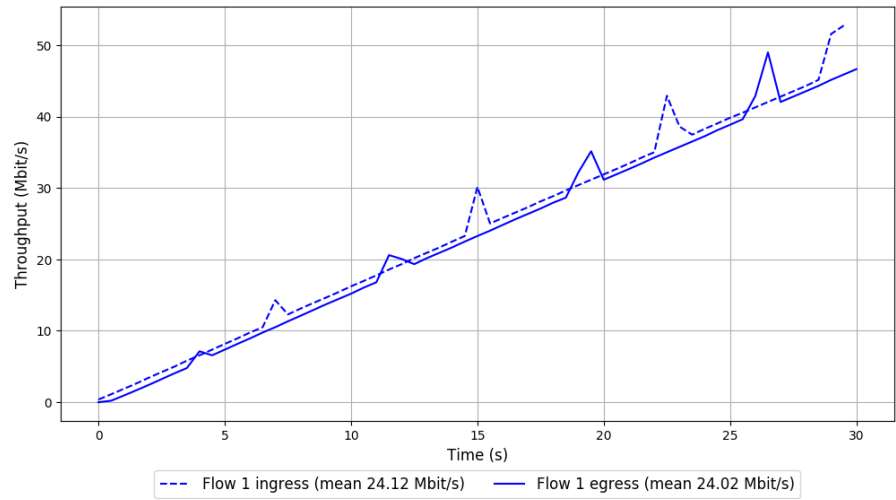
-- Flow 1:

Average throughput: 24.02 Mbit/s

95th percentile per-packet one-way delay: 61.713 ms

Loss rate: 0.81%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-08-11 15:57:00

End at: 2018-08-11 15:57:30

Local clock offset: -0.579 ms

Remote clock offset: 0.241 ms

Below is generated by plot.py at 2018-08-11 19:55:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.70 Mbit/s

95th percentile per-packet one-way delay: 67.065 ms

Loss rate: 0.83%

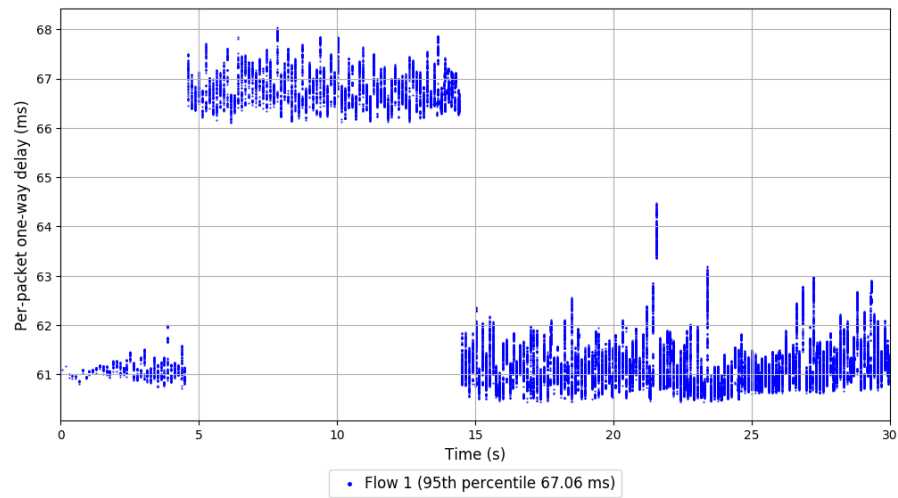
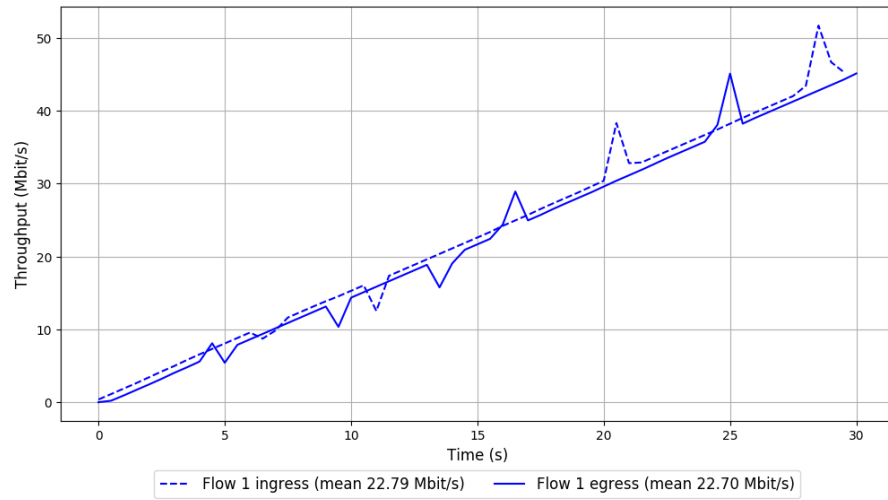
-- Flow 1:

Average throughput: 22.70 Mbit/s

95th percentile per-packet one-way delay: 67.065 ms

Loss rate: 0.83%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-08-11 16:19:16

End at: 2018-08-11 16:19:46

Local clock offset: -0.639 ms

Remote clock offset: -0.12 ms

Below is generated by plot.py at 2018-08-11 19:55:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.00 Mbit/s

95th percentile per-packet one-way delay: 67.591 ms

Loss rate: 0.84%

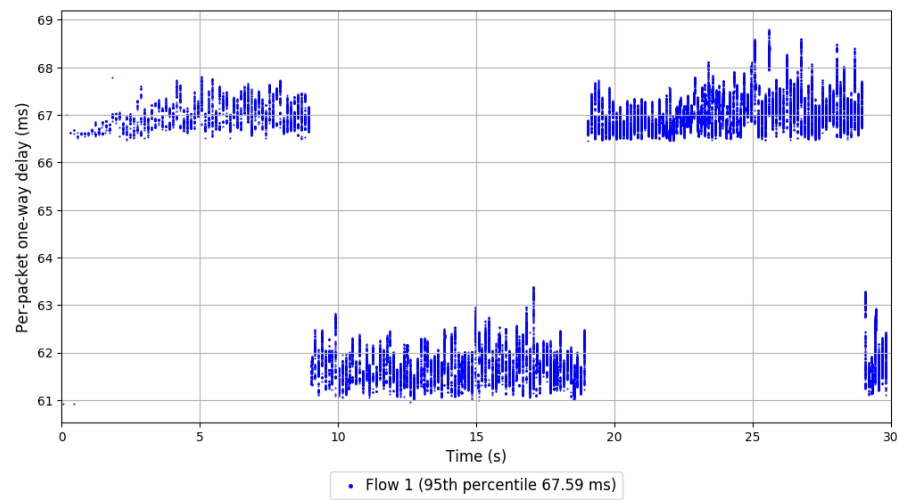
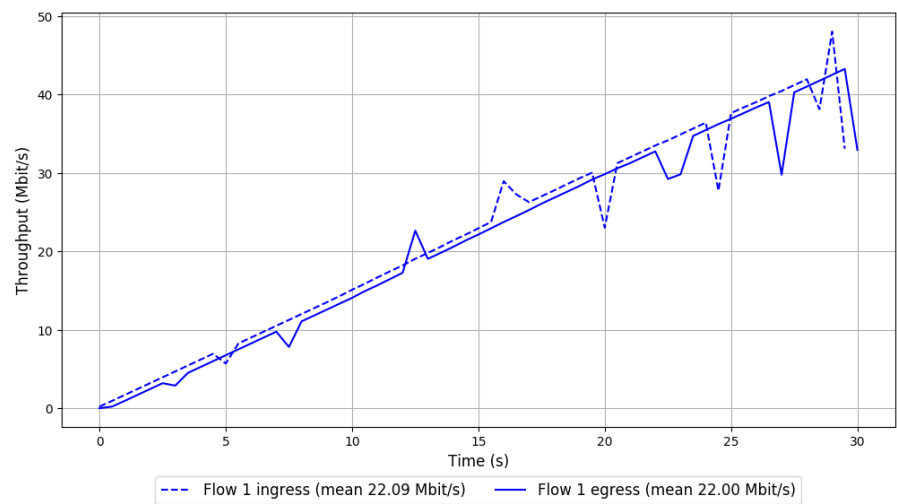
-- Flow 1:

Average throughput: 22.00 Mbit/s

95th percentile per-packet one-way delay: 67.591 ms

Loss rate: 0.84%

Run 5: Report of LEDBAT — Data Link

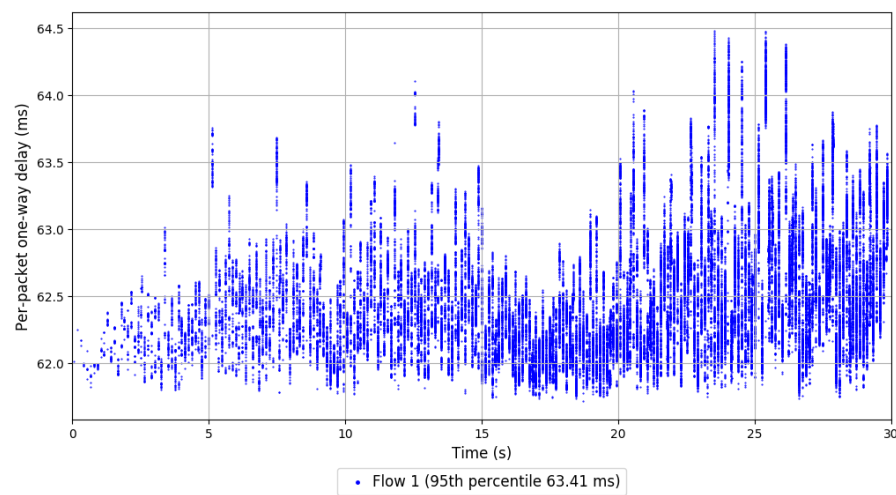
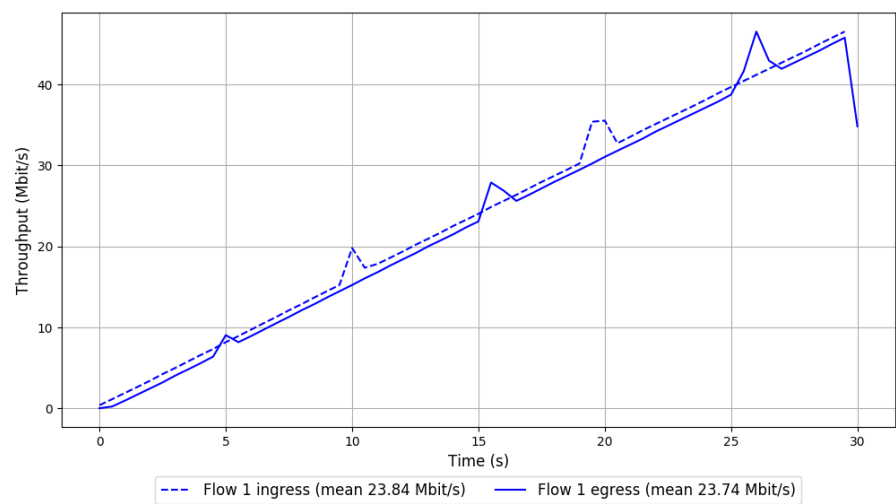


Run 6: Statistics of LEDBAT

Start at: 2018-08-11 16:41:50
End at: 2018-08-11 16:42:20
Local clock offset: -0.679 ms
Remote clock offset: -0.746 ms

Below is generated by plot.py at 2018-08-11 19:55:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 23.74 Mbit/s
95th percentile per-packet one-way delay: 63.409 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 23.74 Mbit/s
95th percentile per-packet one-way delay: 63.409 ms
Loss rate: 0.82%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-08-11 17:04:58

End at: 2018-08-11 17:05:28

Local clock offset: -0.056 ms

Remote clock offset: 0.53 ms

Below is generated by plot.py at 2018-08-11 19:55:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.86 Mbit/s

95th percentile per-packet one-way delay: 61.929 ms

Loss rate: 0.84%

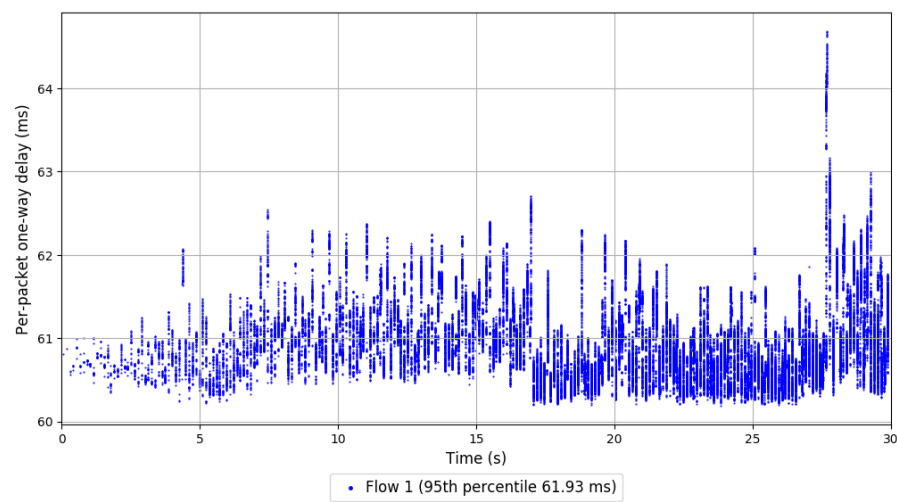
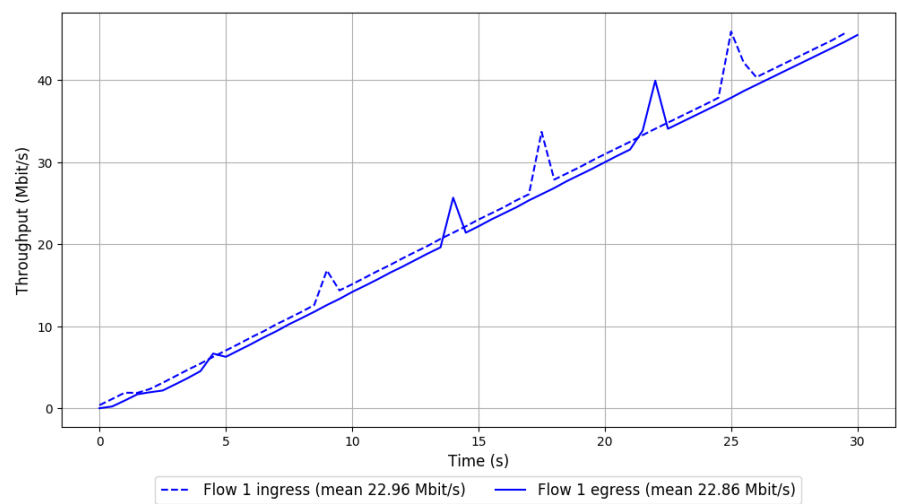
-- Flow 1:

Average throughput: 22.86 Mbit/s

95th percentile per-packet one-way delay: 61.929 ms

Loss rate: 0.84%

Run 7: Report of LEDBAT — Data Link

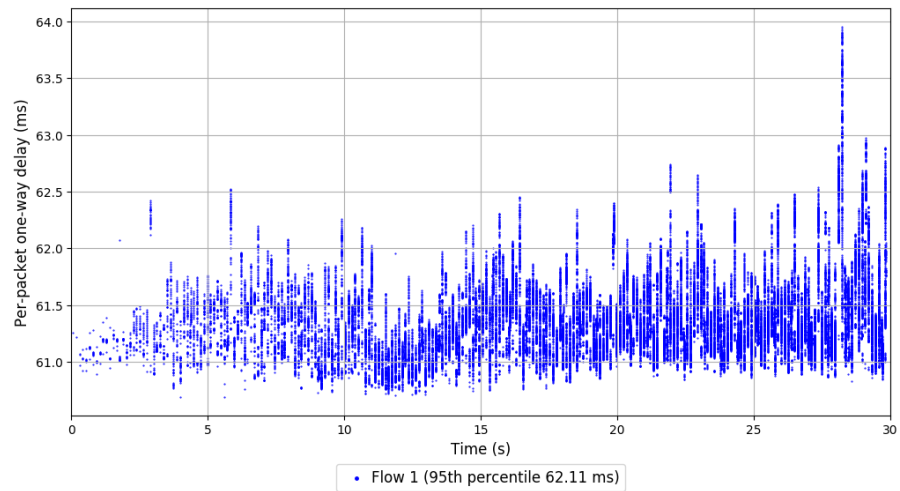
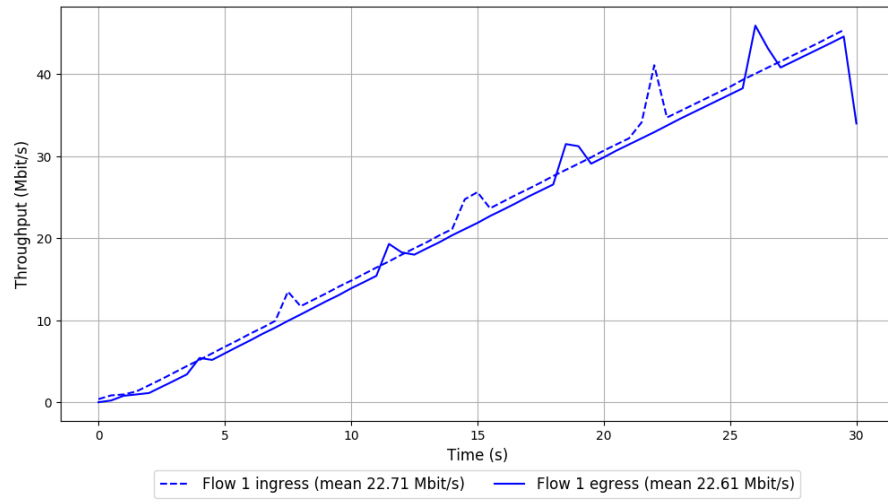


Run 8: Statistics of LEDBAT

Start at: 2018-08-11 17:28:05
End at: 2018-08-11 17:28:35
Local clock offset: 0.372 ms
Remote clock offset: -0.032 ms

Below is generated by plot.py at 2018-08-11 19:55:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 22.61 Mbit/s
95th percentile per-packet one-way delay: 62.113 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 22.61 Mbit/s
95th percentile per-packet one-way delay: 62.113 ms
Loss rate: 0.84%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-08-11 17:51:02

End at: 2018-08-11 17:51:32

Local clock offset: 0.556 ms

Remote clock offset: 0.86 ms

Below is generated by plot.py at 2018-08-11 19:55:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.93 Mbit/s

95th percentile per-packet one-way delay: 61.431 ms

Loss rate: 0.82%

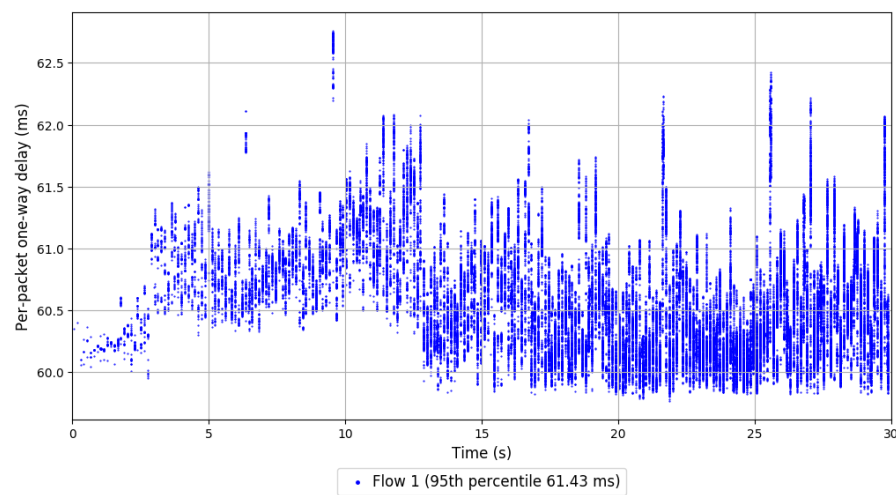
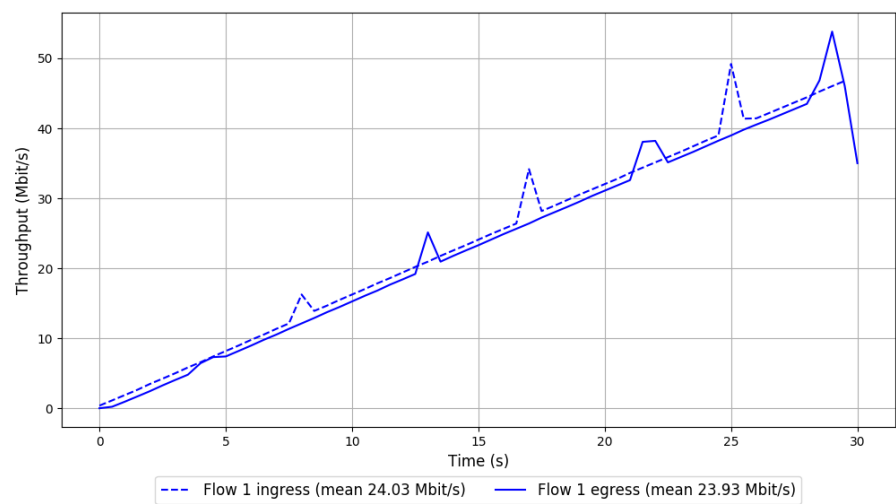
-- Flow 1:

Average throughput: 23.93 Mbit/s

95th percentile per-packet one-way delay: 61.431 ms

Loss rate: 0.82%

Run 9: Report of LEDBAT — Data Link

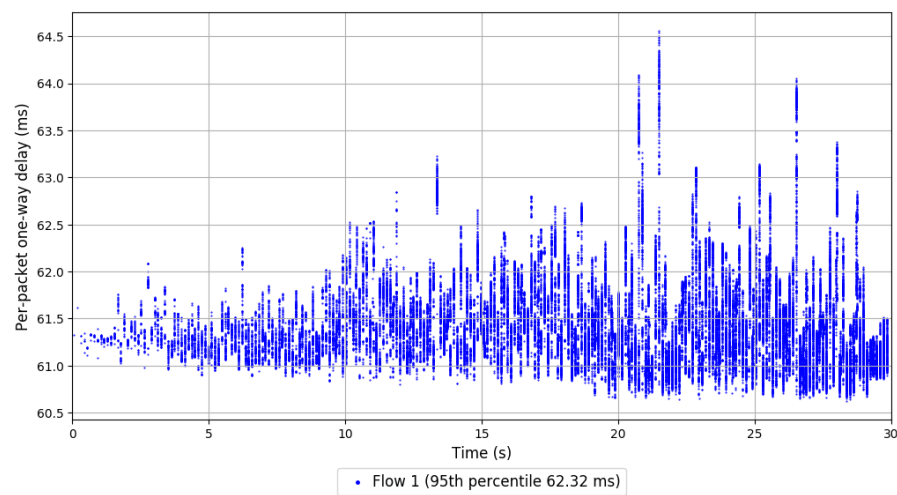
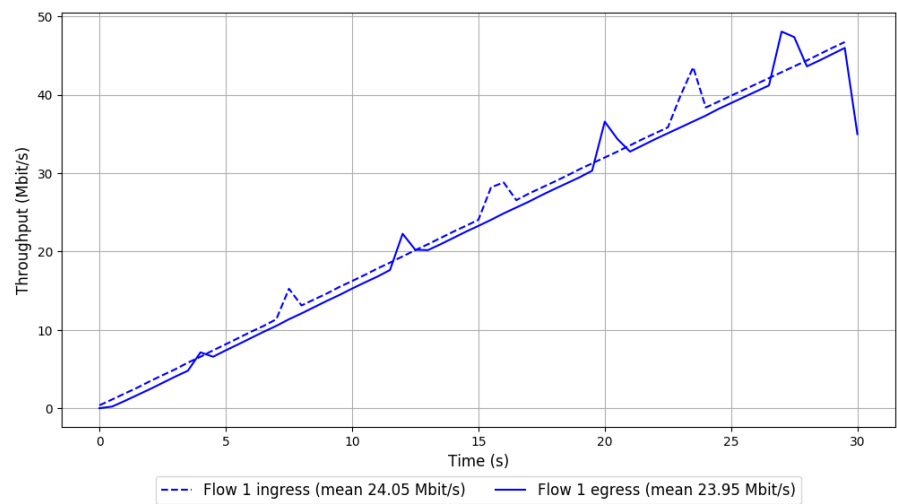


Run 10: Statistics of LEDBAT

Start at: 2018-08-11 18:13:56
End at: 2018-08-11 18:14:26
Local clock offset: 0.776 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2018-08-11 19:55:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 23.95 Mbit/s
95th percentile per-packet one-way delay: 62.319 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 23.95 Mbit/s
95th percentile per-packet one-way delay: 62.319 ms
Loss rate: 0.82%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-08-11 14:53:45

End at: 2018-08-11 14:54:15

Local clock offset: -0.421 ms

Remote clock offset: -0.598 ms

Below is generated by plot.py at 2018-08-11 19:56:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 580.90 Mbit/s

95th percentile per-packet one-way delay: 136.303 ms

Loss rate: 2.65%

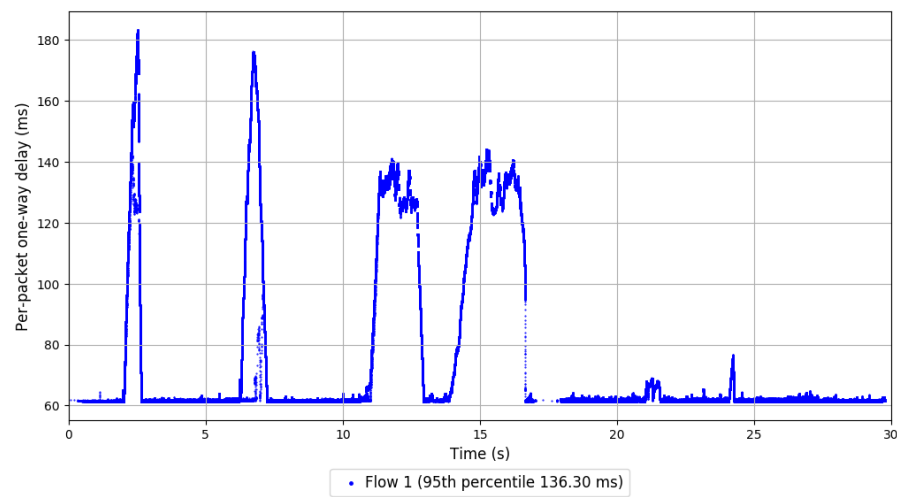
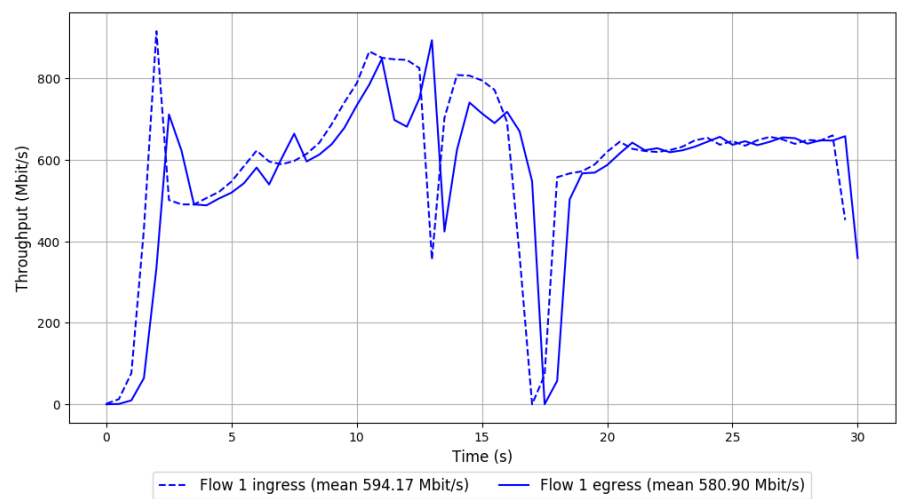
-- Flow 1:

Average throughput: 580.90 Mbit/s

95th percentile per-packet one-way delay: 136.303 ms

Loss rate: 2.65%

Run 1: Report of PCC-Allegro — Data Link

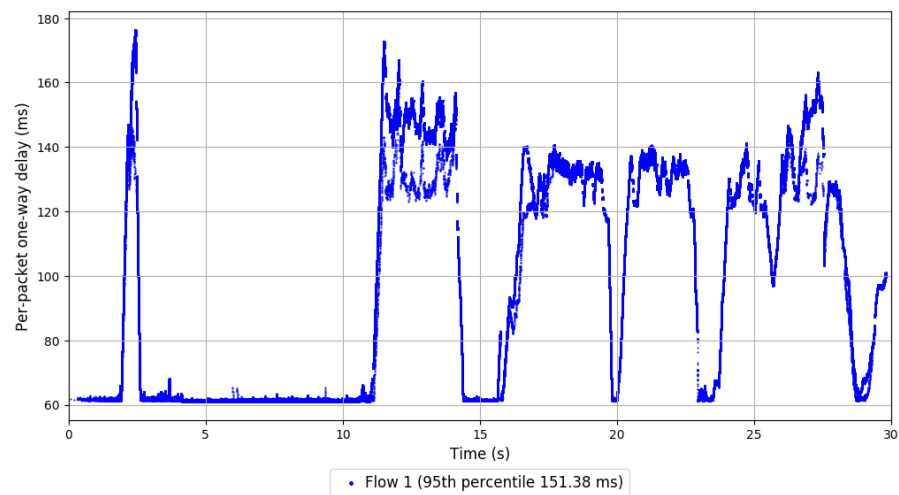
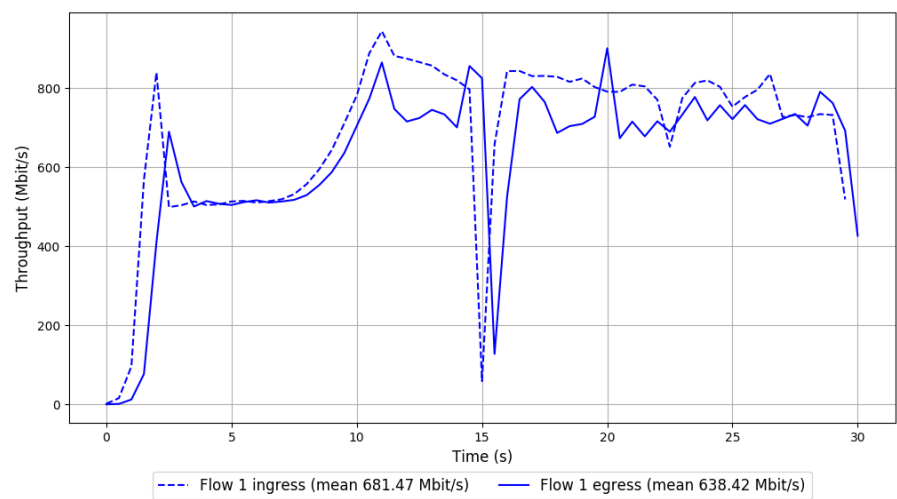


Run 2: Statistics of PCC-Allegro

Start at: 2018-08-11 15:16:30
End at: 2018-08-11 15:17:00
Local clock offset: -0.434 ms
Remote clock offset: -0.257 ms

Below is generated by plot.py at 2018-08-11 19:57:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 638.42 Mbit/s
95th percentile per-packet one-way delay: 151.376 ms
Loss rate: 6.70%
-- Flow 1:
Average throughput: 638.42 Mbit/s
95th percentile per-packet one-way delay: 151.376 ms
Loss rate: 6.70%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-08-11 15:39:31

End at: 2018-08-11 15:40:01

Local clock offset: -0.546 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2018-08-11 19:57:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 585.70 Mbit/s

95th percentile per-packet one-way delay: 131.536 ms

Loss rate: 2.27%

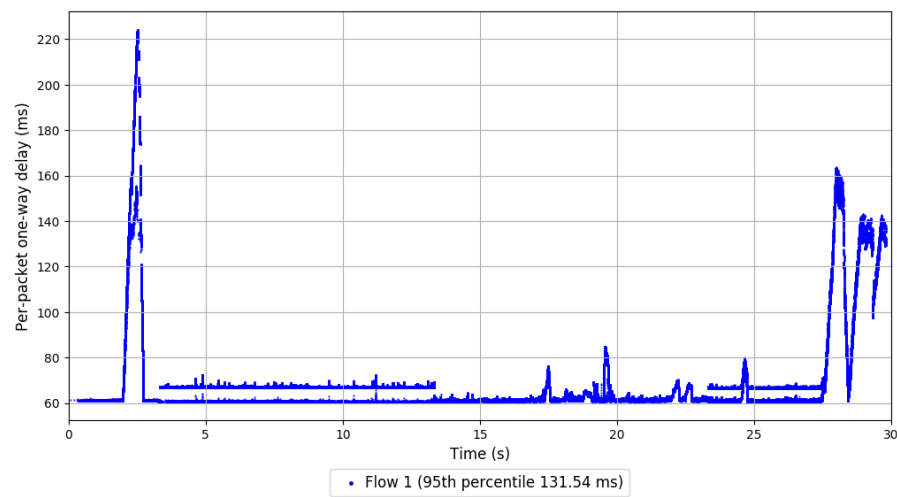
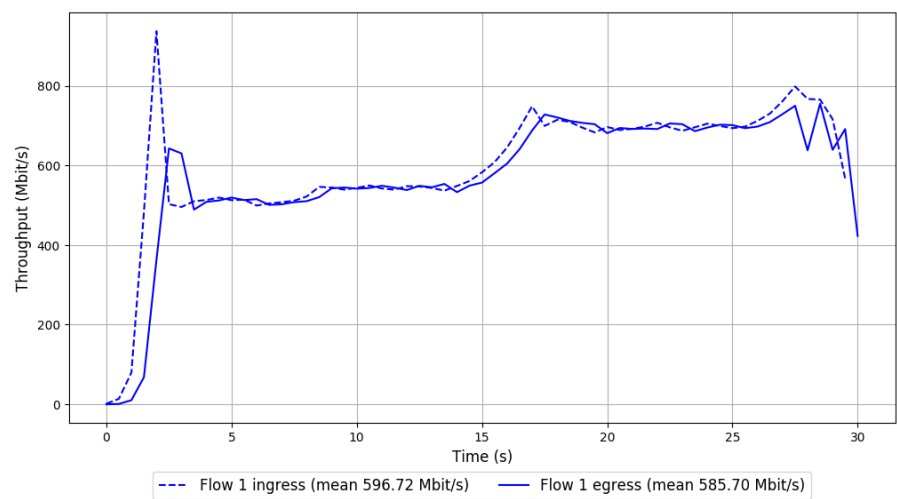
-- Flow 1:

Average throughput: 585.70 Mbit/s

95th percentile per-packet one-way delay: 131.536 ms

Loss rate: 2.27%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-08-11 16:02:02

End at: 2018-08-11 16:02:32

Local clock offset: -0.625 ms

Remote clock offset: -0.091 ms

Below is generated by plot.py at 2018-08-11 19:57:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 614.17 Mbit/s

95th percentile per-packet one-way delay: 98.859 ms

Loss rate: 0.59%

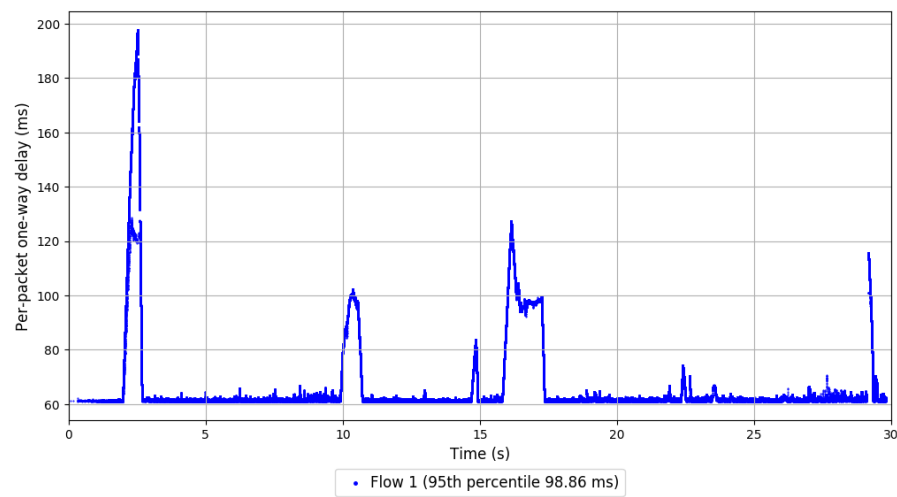
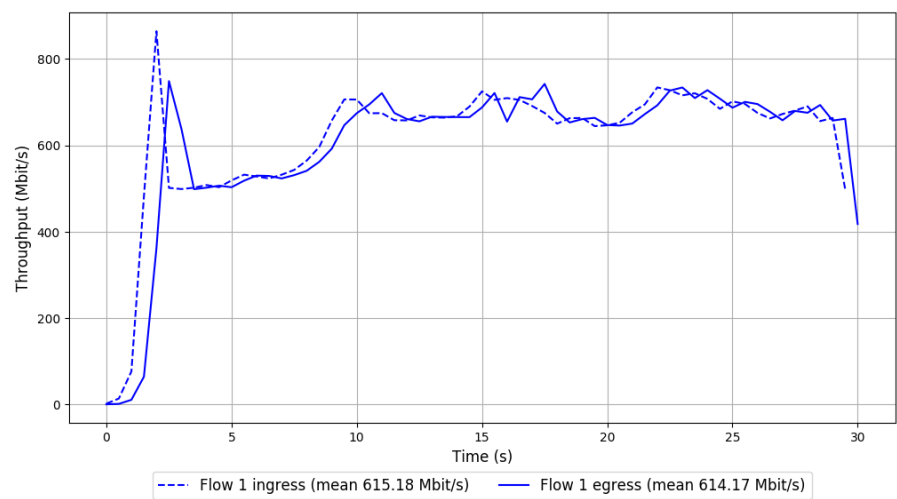
-- Flow 1:

Average throughput: 614.17 Mbit/s

95th percentile per-packet one-way delay: 98.859 ms

Loss rate: 0.59%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-08-11 16:24:26

End at: 2018-08-11 16:24:56

Local clock offset: -0.638 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-08-11 20:00:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 557.18 Mbit/s

95th percentile per-packet one-way delay: 119.633 ms

Loss rate: 0.59%

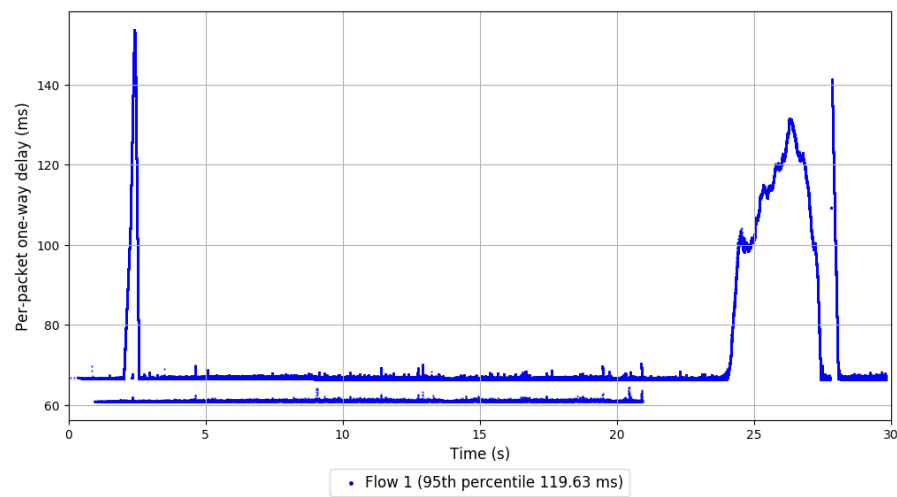
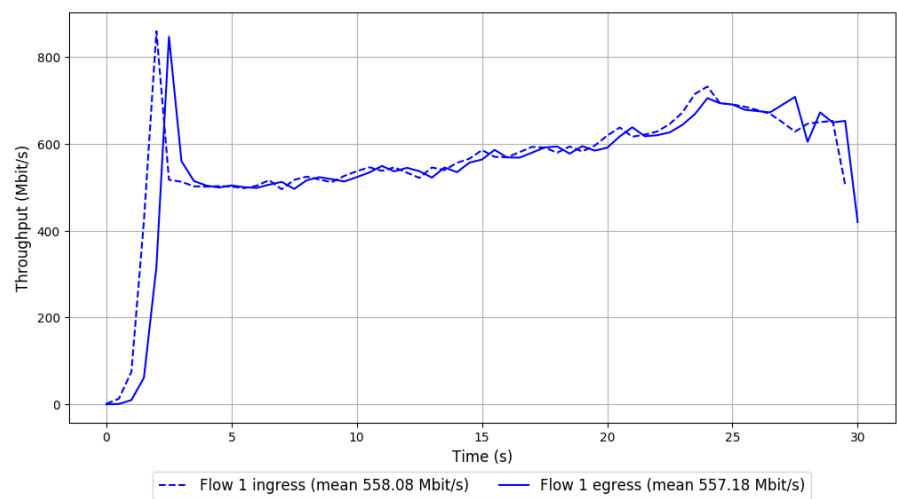
-- Flow 1:

Average throughput: 557.18 Mbit/s

95th percentile per-packet one-way delay: 119.633 ms

Loss rate: 0.59%

Run 5: Report of PCC-Allegro — Data Link

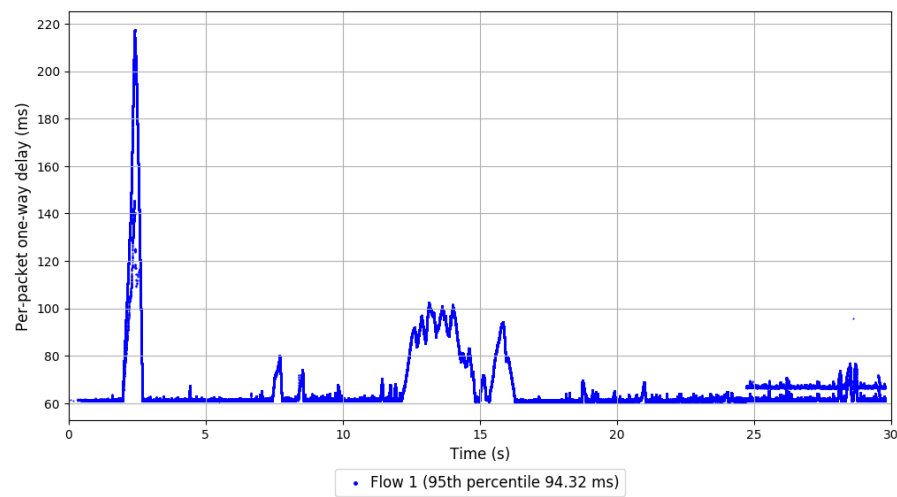
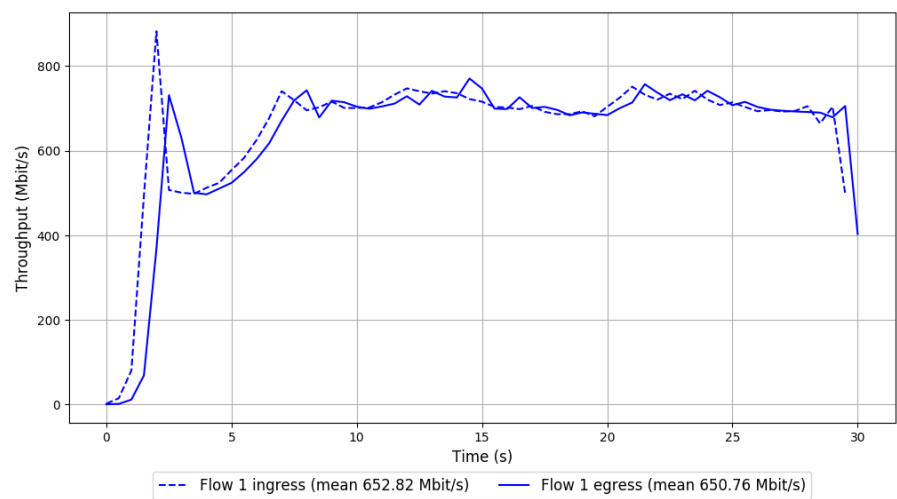


Run 6: Statistics of PCC-Allegro

Start at: 2018-08-11 16:47:02
End at: 2018-08-11 16:47:32
Local clock offset: -0.704 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2018-08-11 20:02:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 650.76 Mbit/s
95th percentile per-packet one-way delay: 94.322 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 650.76 Mbit/s
95th percentile per-packet one-way delay: 94.322 ms
Loss rate: 0.75%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-08-11 17:10:07

End at: 2018-08-11 17:10:37

Local clock offset: 0.136 ms

Remote clock offset: -0.23 ms

Below is generated by plot.py at 2018-08-11 20:04:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 695.51 Mbit/s

95th percentile per-packet one-way delay: 117.154 ms

Loss rate: 0.79%

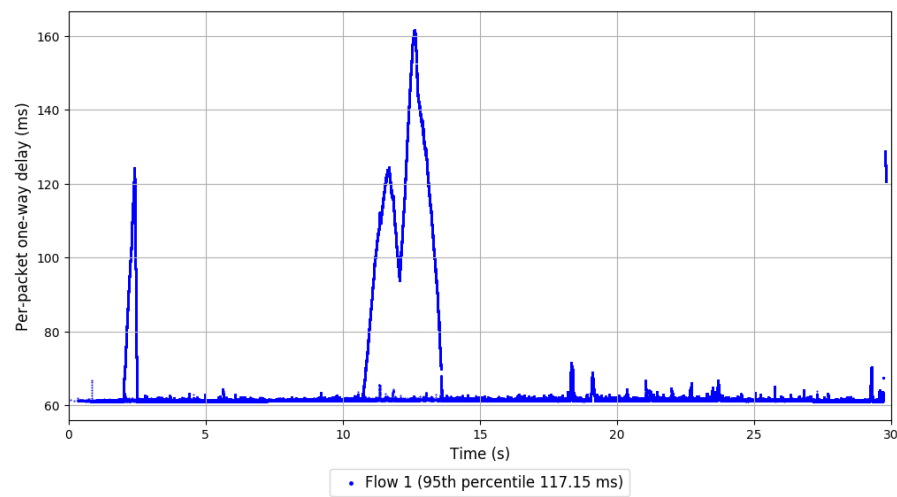
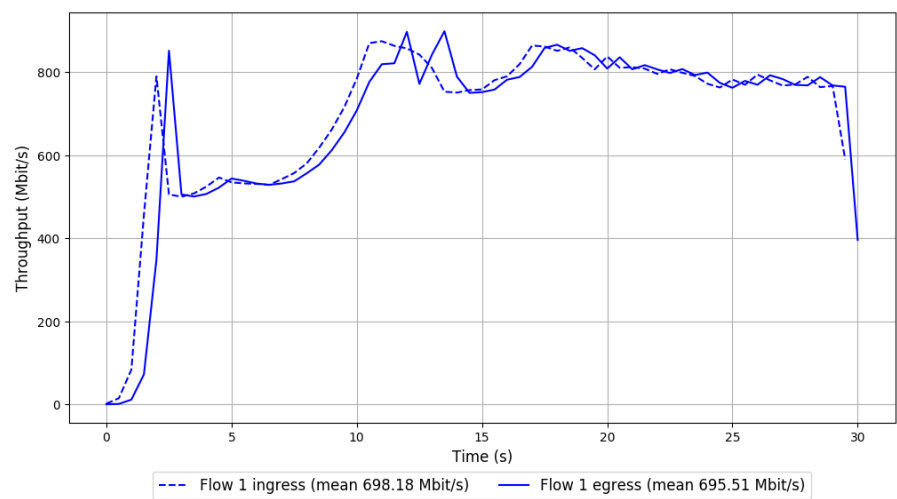
-- Flow 1:

Average throughput: 695.51 Mbit/s

95th percentile per-packet one-way delay: 117.154 ms

Loss rate: 0.79%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-08-11 17:33:09

End at: 2018-08-11 17:33:39

Local clock offset: 0.434 ms

Remote clock offset: 1.497 ms

Below is generated by plot.py at 2018-08-11 20:06:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 651.39 Mbit/s

95th percentile per-packet one-way delay: 122.552 ms

Loss rate: 0.98%

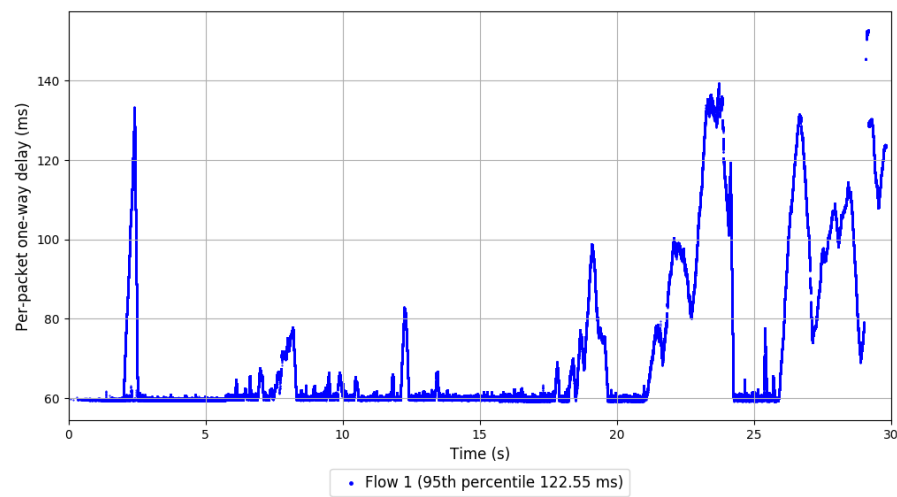
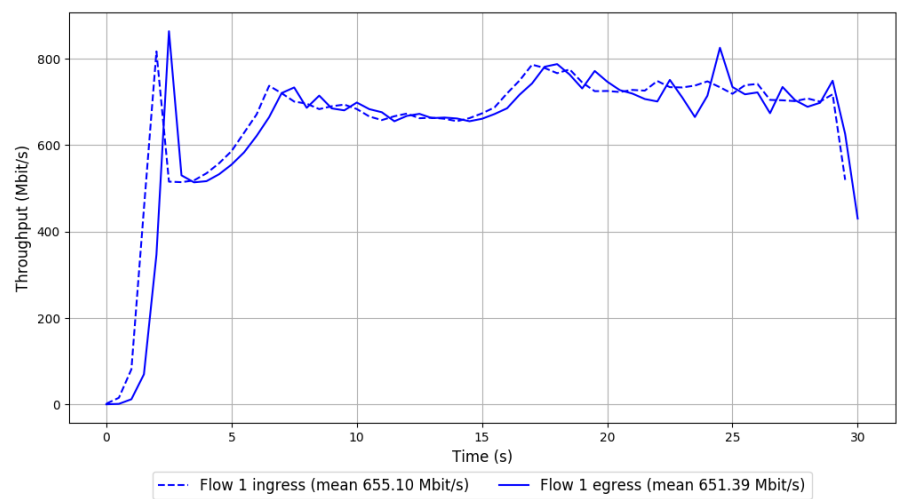
-- Flow 1:

Average throughput: 651.39 Mbit/s

95th percentile per-packet one-way delay: 122.552 ms

Loss rate: 0.98%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-08-11 17:56:12

End at: 2018-08-11 17:56:42

Local clock offset: 0.623 ms

Remote clock offset: -0.617 ms

Below is generated by plot.py at 2018-08-11 20:06:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 557.36 Mbit/s

95th percentile per-packet one-way delay: 67.990 ms

Loss rate: 0.53%

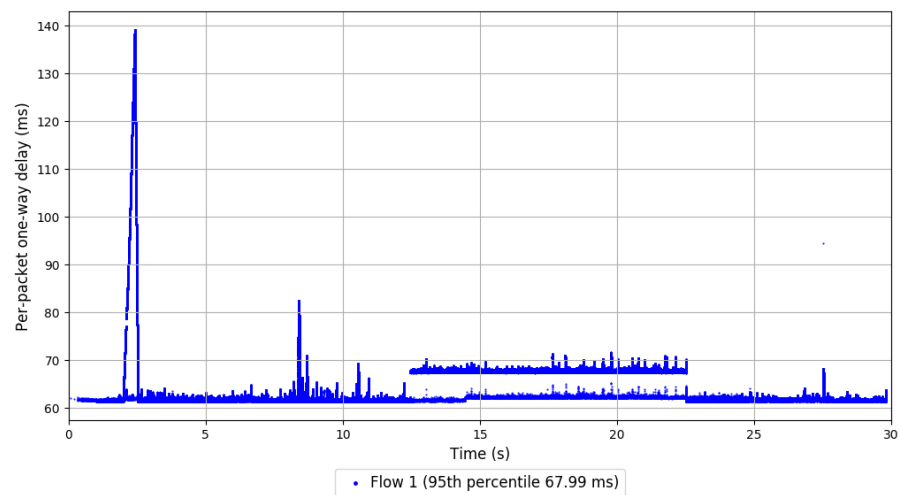
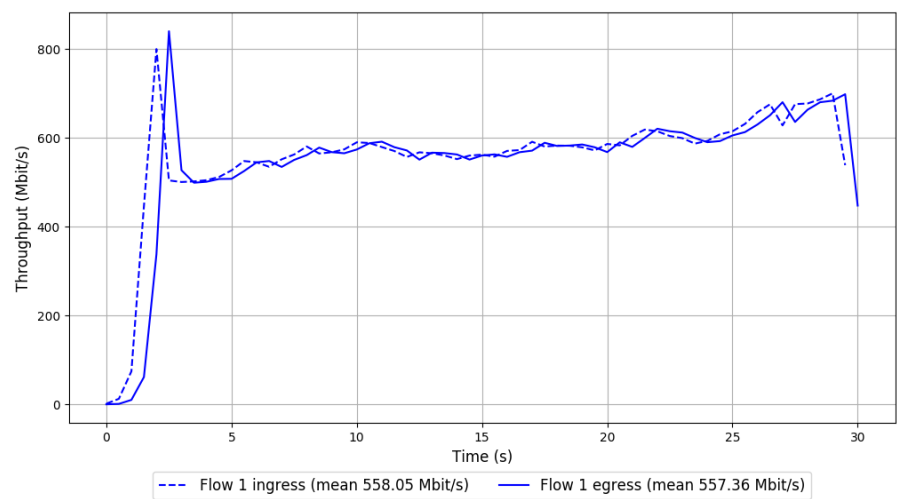
-- Flow 1:

Average throughput: 557.36 Mbit/s

95th percentile per-packet one-way delay: 67.990 ms

Loss rate: 0.53%

Run 9: Report of PCC-Allegro — Data Link

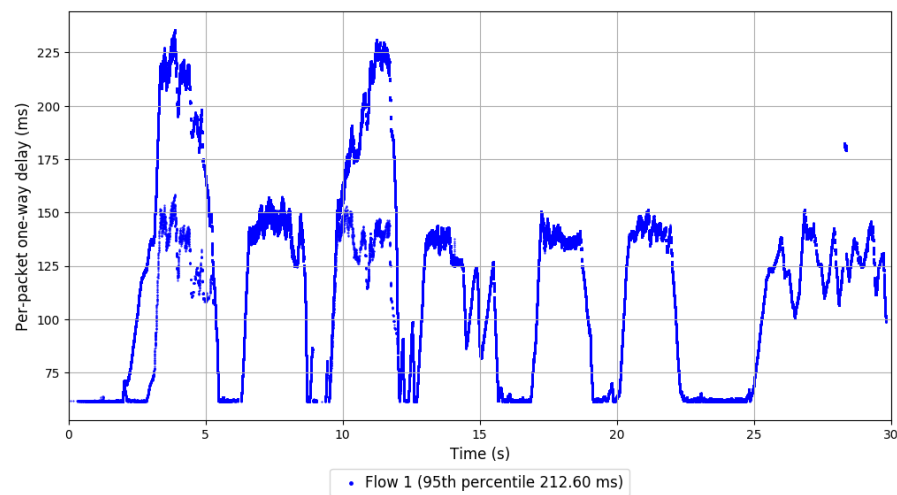
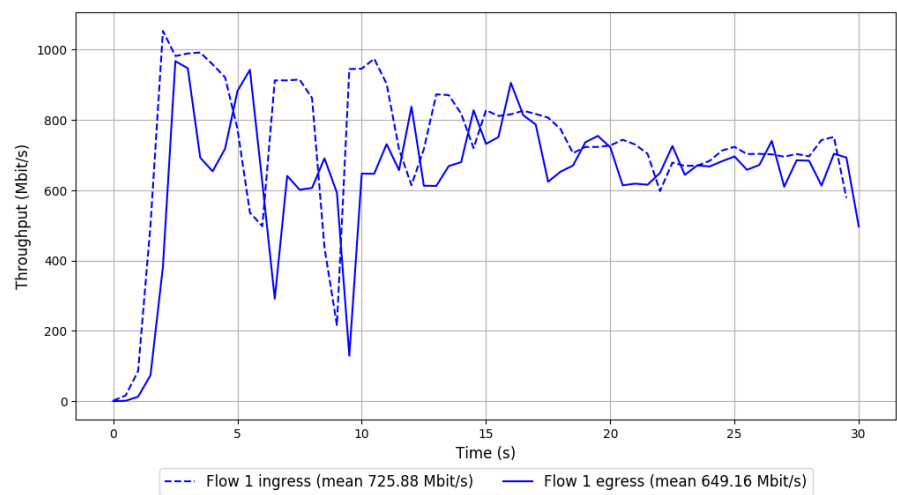


Run 10: Statistics of PCC-Allegro

Start at: 2018-08-11 18:19:00
End at: 2018-08-11 18:19:30
Local clock offset: 0.875 ms
Remote clock offset: -0.659 ms

Below is generated by plot.py at 2018-08-11 20:09:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 649.16 Mbit/s
95th percentile per-packet one-way delay: 212.598 ms
Loss rate: 10.94%
-- Flow 1:
Average throughput: 649.16 Mbit/s
95th percentile per-packet one-way delay: 212.598 ms
Loss rate: 10.94%

Run 10: Report of PCC-Allegro — Data Link

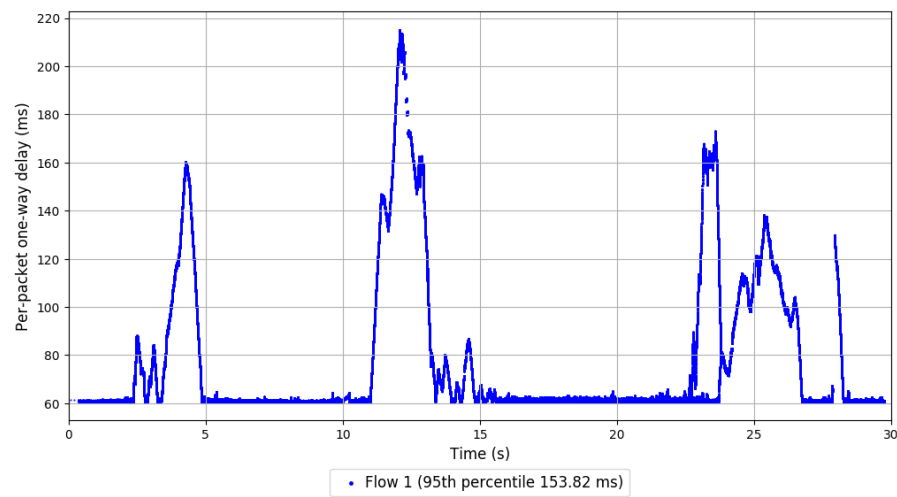
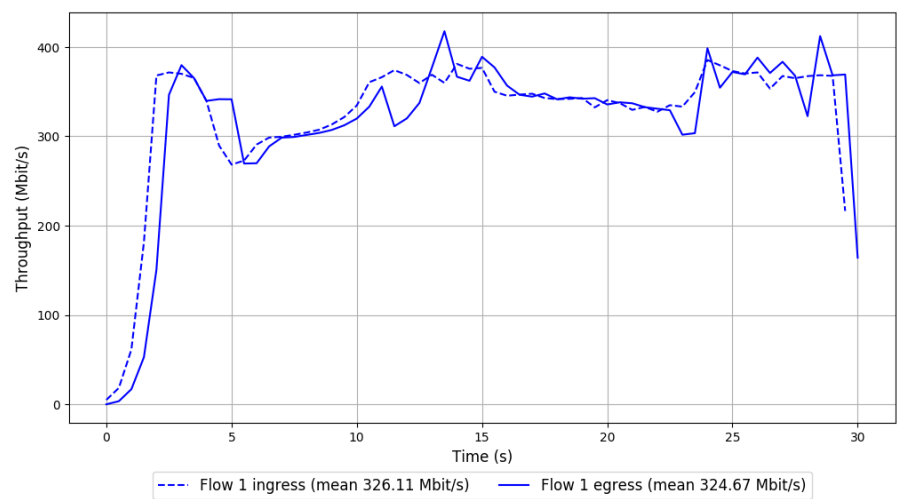


```
Run 1: Statistics of PCC-Expr

Start at: 2018-08-11 14:37:48
End at: 2018-08-11 14:38:18
Local clock offset: -0.391 ms
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2018-08-11 20:09:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 324.67 Mbit/s
95th percentile per-packet one-way delay: 153.825 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 324.67 Mbit/s
95th percentile per-packet one-way delay: 153.825 ms
Loss rate: 0.85%
```


Run 1: Report of PCC-Expr — Data Link

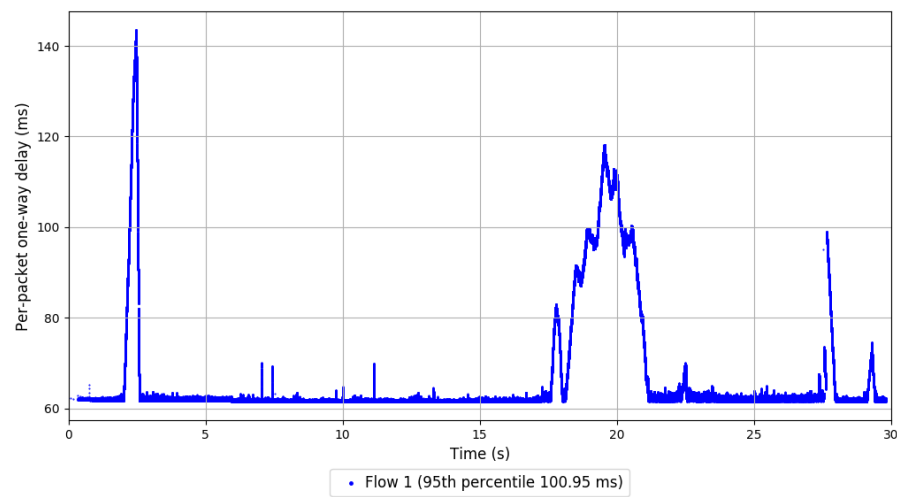
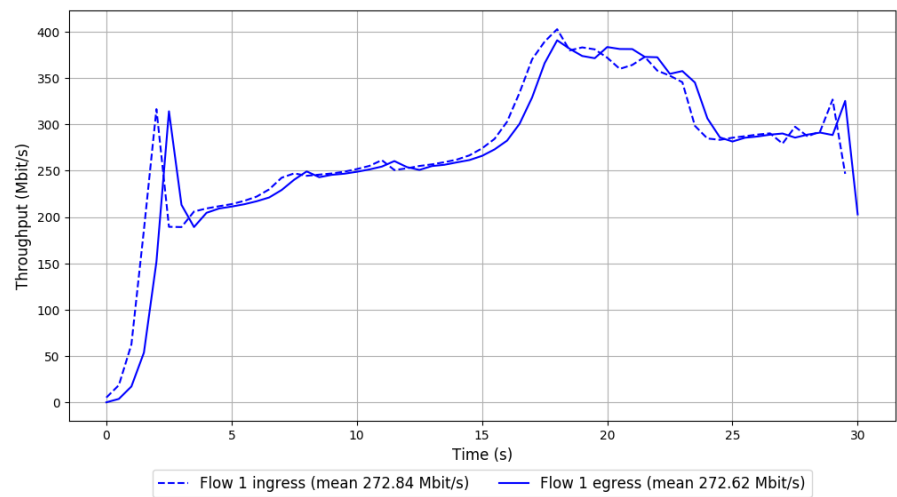


Run 2: Statistics of PCC-Expr

Start at: 2018-08-11 15:00:38
End at: 2018-08-11 15:01:08
Local clock offset: -0.405 ms
Remote clock offset: -0.808 ms

Below is generated by plot.py at 2018-08-11 20:09:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 272.62 Mbit/s
95th percentile per-packet one-way delay: 100.947 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 272.62 Mbit/s
95th percentile per-packet one-way delay: 100.947 ms
Loss rate: 0.51%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-08-11 15:23:22

End at: 2018-08-11 15:23:52

Local clock offset: -0.462 ms

Remote clock offset: 0.023 ms

Below is generated by plot.py at 2018-08-11 20:11:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 318.02 Mbit/s

95th percentile per-packet one-way delay: 99.266 ms

Loss rate: 0.47%

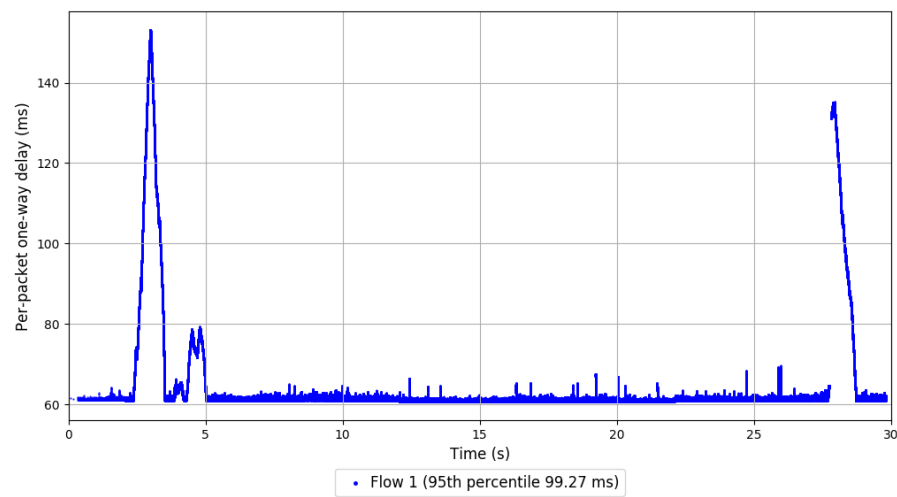
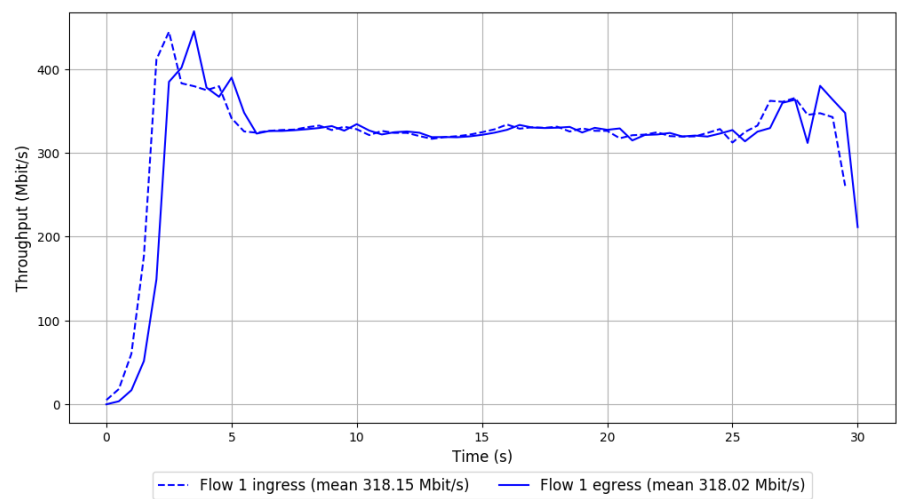
-- Flow 1:

Average throughput: 318.02 Mbit/s

95th percentile per-packet one-way delay: 99.266 ms

Loss rate: 0.47%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-08-11 15:46:27

End at: 2018-08-11 15:46:57

Local clock offset: -0.572 ms

Remote clock offset: 0.44 ms

Below is generated by plot.py at 2018-08-11 20:12:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.14 Mbit/s

95th percentile per-packet one-way delay: 175.202 ms

Loss rate: 0.71%

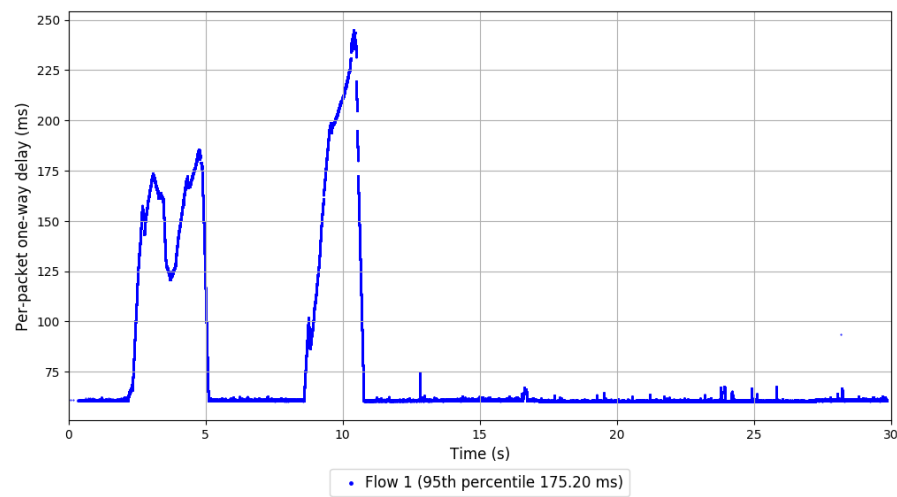
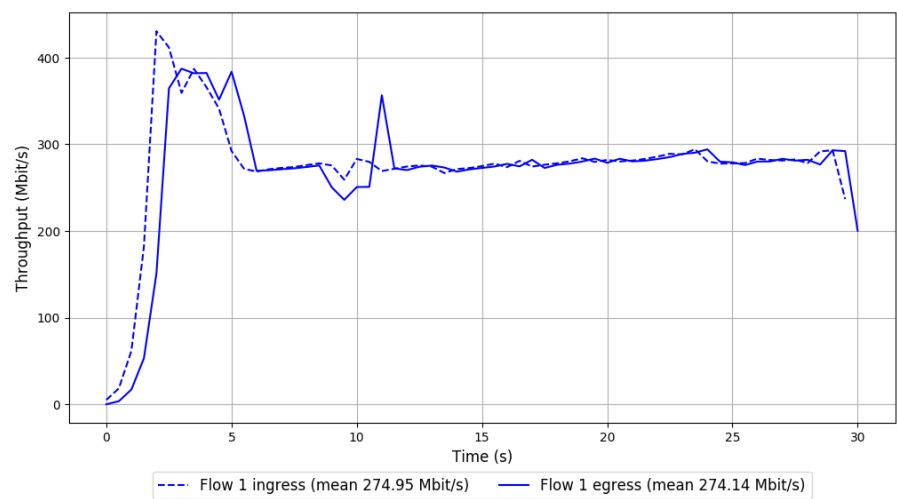
-- Flow 1:

Average throughput: 274.14 Mbit/s

95th percentile per-packet one-way delay: 175.202 ms

Loss rate: 0.71%

Run 4: Report of PCC-Expr — Data Link

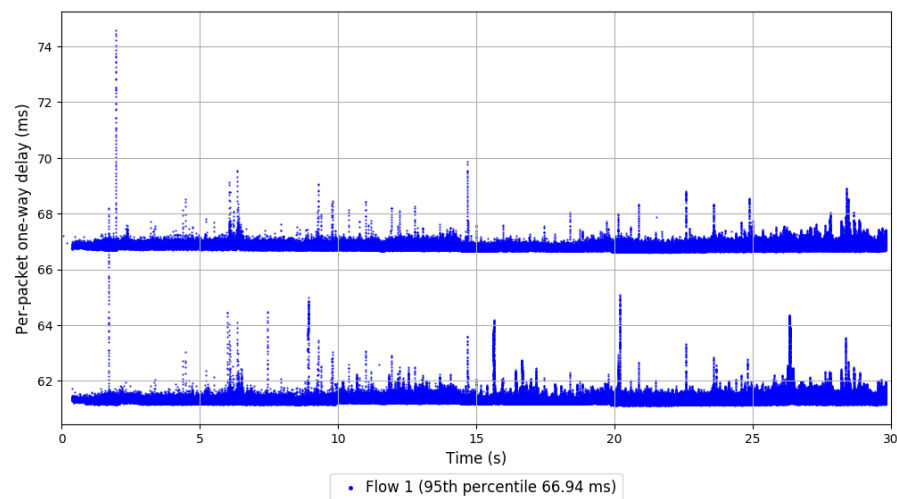
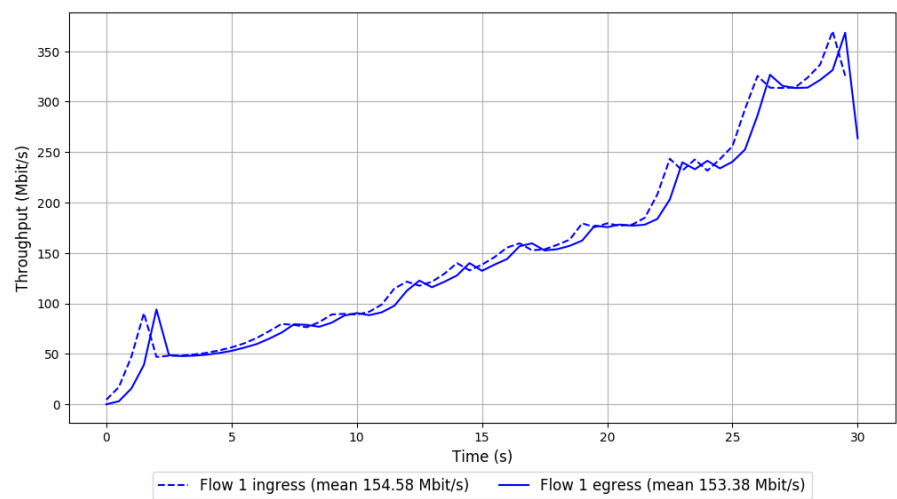


Run 5: Statistics of PCC-Expr

Start at: 2018-08-11 16:08:55
End at: 2018-08-11 16:09:25
Local clock offset: -0.578 ms
Remote clock offset: -0.304 ms

Below is generated by plot.py at 2018-08-11 20:12:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 153.38 Mbit/s
95th percentile per-packet one-way delay: 66.939 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 153.38 Mbit/s
95th percentile per-packet one-way delay: 66.939 ms
Loss rate: 1.20%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-08-11 16:31:09

End at: 2018-08-11 16:31:39

Local clock offset: -0.616 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2018-08-11 20:14:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 234.70 Mbit/s

95th percentile per-packet one-way delay: 205.623 ms

Loss rate: 3.72%

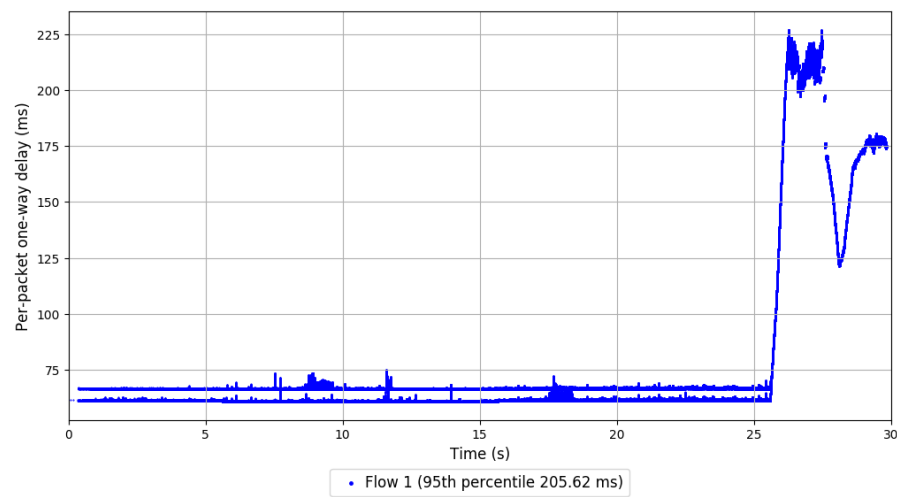
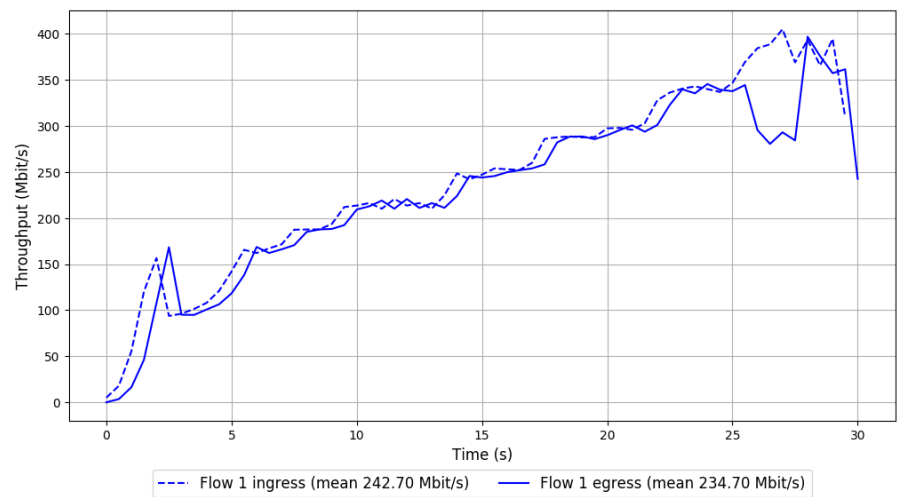
-- Flow 1:

Average throughput: 234.70 Mbit/s

95th percentile per-packet one-way delay: 205.623 ms

Loss rate: 3.72%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-08-11 16:54:01

End at: 2018-08-11 16:54:31

Local clock offset: -0.595 ms

Remote clock offset: 0.548 ms

Below is generated by plot.py at 2018-08-11 20:19:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 356.07 Mbit/s

95th percentile per-packet one-way delay: 190.556 ms

Loss rate: 13.53%

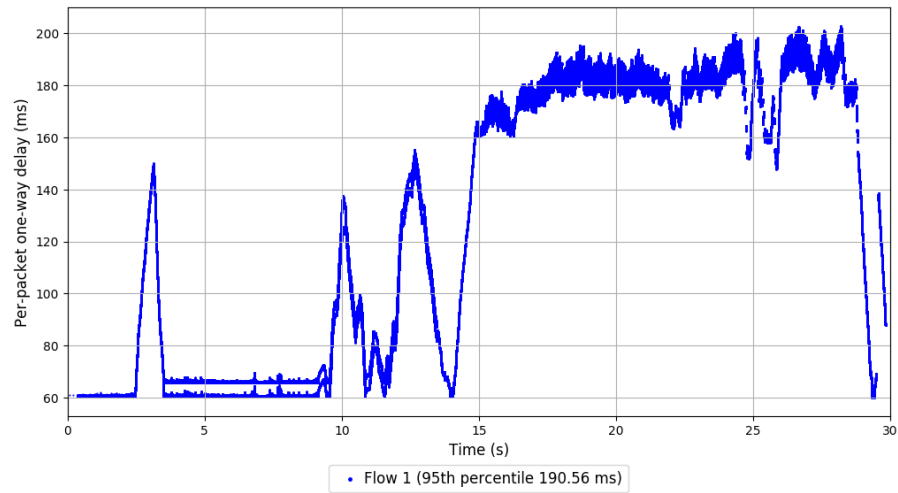
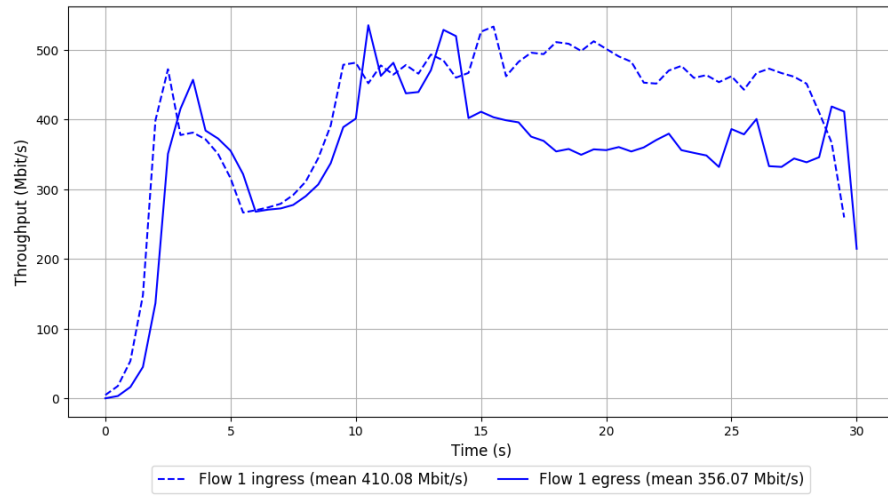
-- Flow 1:

Average throughput: 356.07 Mbit/s

95th percentile per-packet one-way delay: 190.556 ms

Loss rate: 13.53%

Run 7: Report of PCC-Expr — Data Link

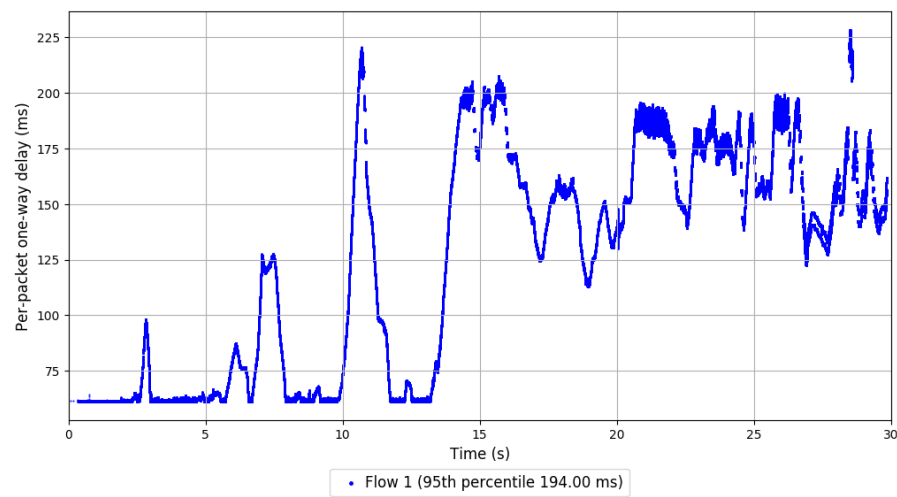
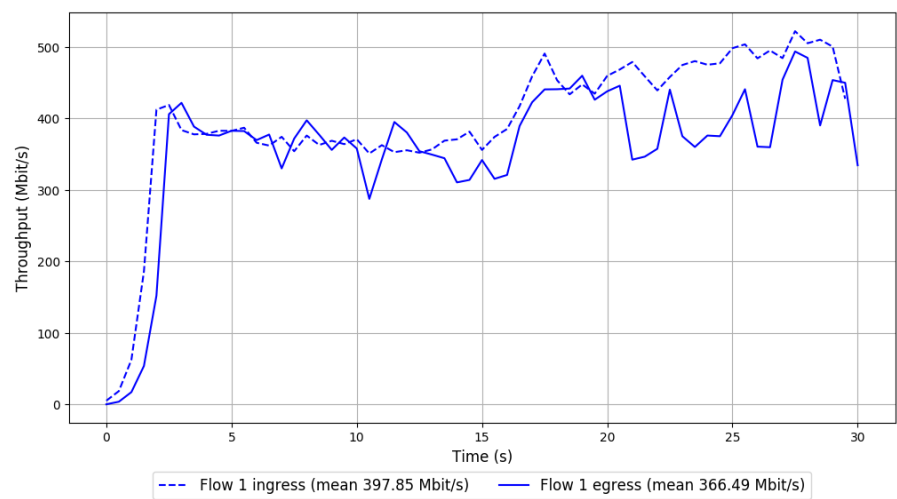


Run 8: Statistics of PCC-Expr

Start at: 2018-08-11 17:17:08
End at: 2018-08-11 17:17:38
Local clock offset: 0.19 ms
Remote clock offset: -0.235 ms

Below is generated by plot.py at 2018-08-11 20:19:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 366.49 Mbit/s
95th percentile per-packet one-way delay: 194.003 ms
Loss rate: 8.26%
-- Flow 1:
Average throughput: 366.49 Mbit/s
95th percentile per-packet one-way delay: 194.003 ms
Loss rate: 8.26%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-08-11 17:40:08

End at: 2018-08-11 17:40:38

Local clock offset: 0.426 ms

Remote clock offset: 0.011 ms

Below is generated by plot.py at 2018-08-11 20:19:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 320.63 Mbit/s

95th percentile per-packet one-way delay: 209.040 ms

Loss rate: 2.65%

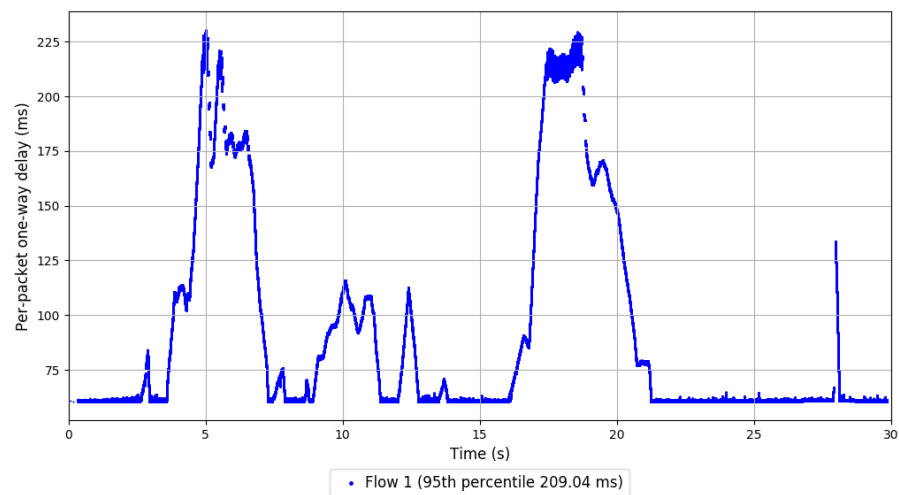
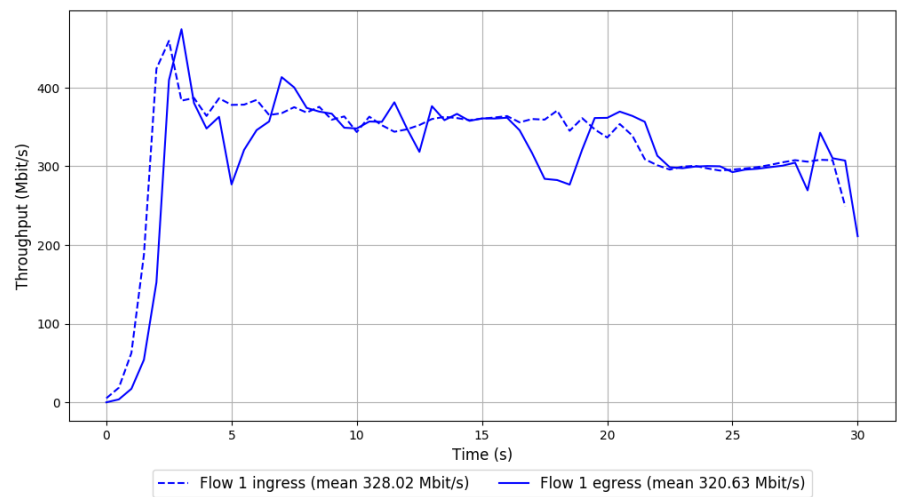
-- Flow 1:

Average throughput: 320.63 Mbit/s

95th percentile per-packet one-way delay: 209.040 ms

Loss rate: 2.65%

Run 9: Report of PCC-Expr — Data Link

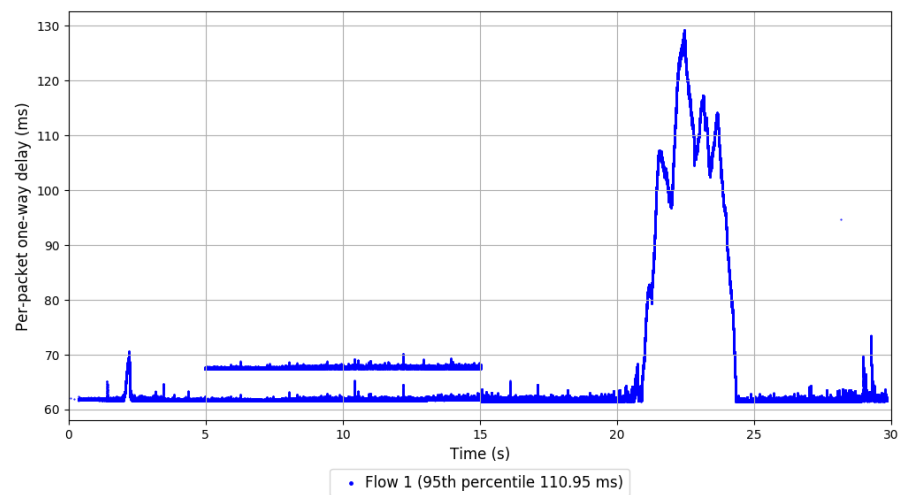
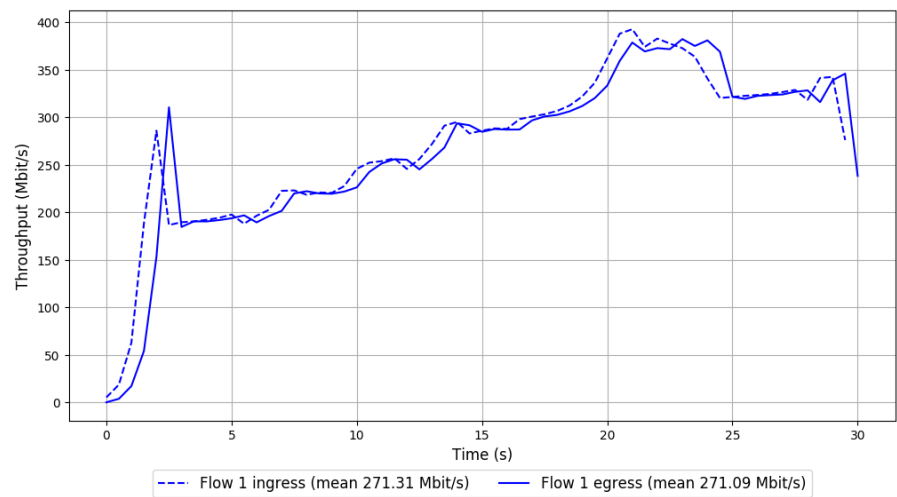


Run 10: Statistics of PCC-Expr

Start at: 2018-08-11 18:03:12
End at: 2018-08-11 18:03:42
Local clock offset: 0.668 ms
Remote clock offset: -0.785 ms

Below is generated by plot.py at 2018-08-11 20:19:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 271.09 Mbit/s
95th percentile per-packet one-way delay: 110.952 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 271.09 Mbit/s
95th percentile per-packet one-way delay: 110.952 ms
Loss rate: 0.49%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

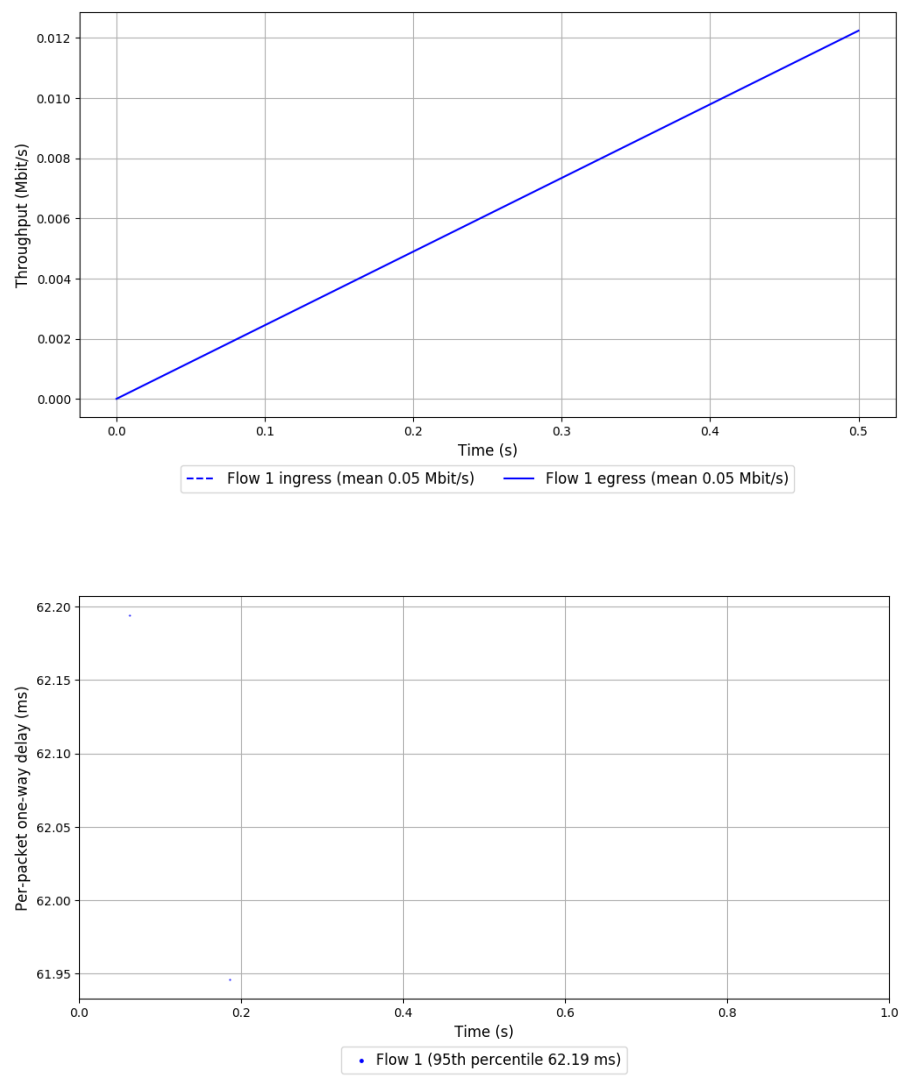
Start at: 2018-08-11 14:43:42

End at: 2018-08-11 14:44:12

Local clock offset: -0.418 ms

Remote clock offset: -0.277 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

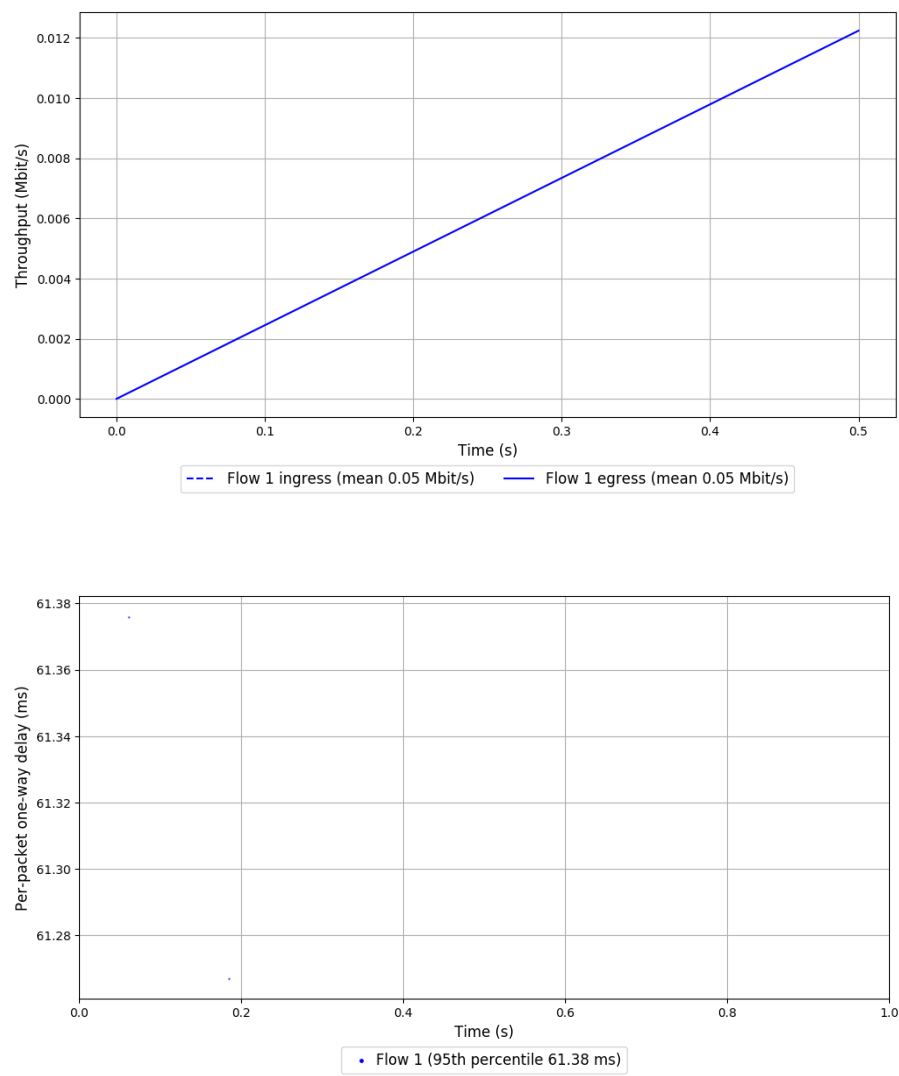
Start at: 2018-08-11 15:06:25

End at: 2018-08-11 15:06:55

Local clock offset: -0.443 ms

Remote clock offset: -0.245 ms

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

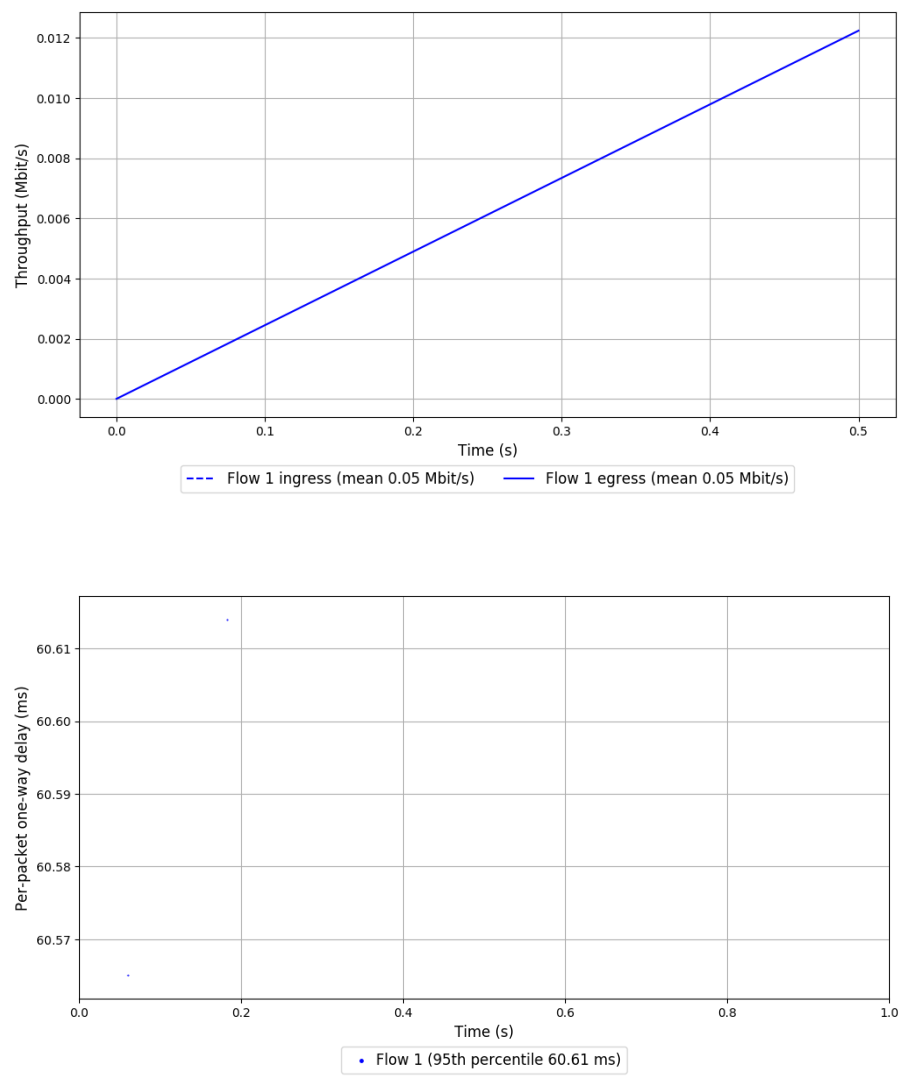
Start at: 2018-08-11 15:29:15

End at: 2018-08-11 15:29:45

Local clock offset: -0.507 ms

Remote clock offset: 0.258 ms

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-08-11 15:52:12

End at: 2018-08-11 15:52:42

Local clock offset: -0.551 ms

Remote clock offset: 0.415 ms

Below is generated by plot.py at 2018-08-11 20:19:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.50 Mbit/s

95th percentile per-packet one-way delay: 66.079 ms

Loss rate: 0.50%

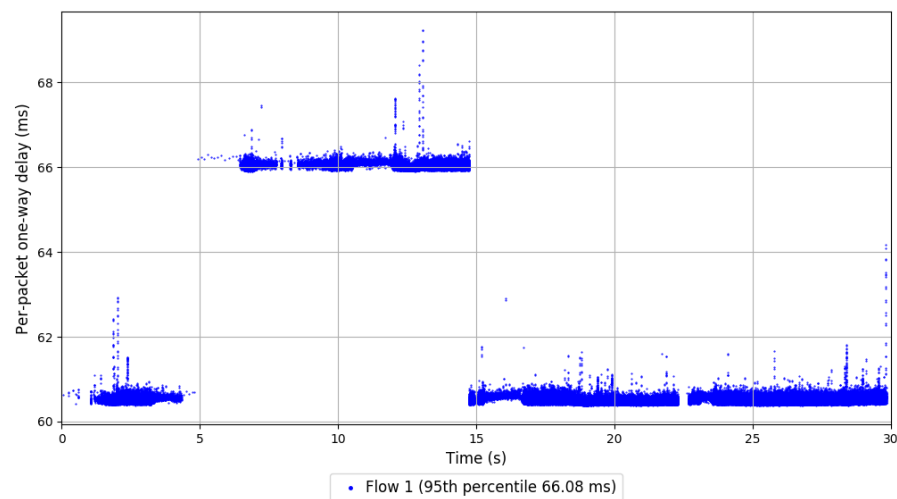
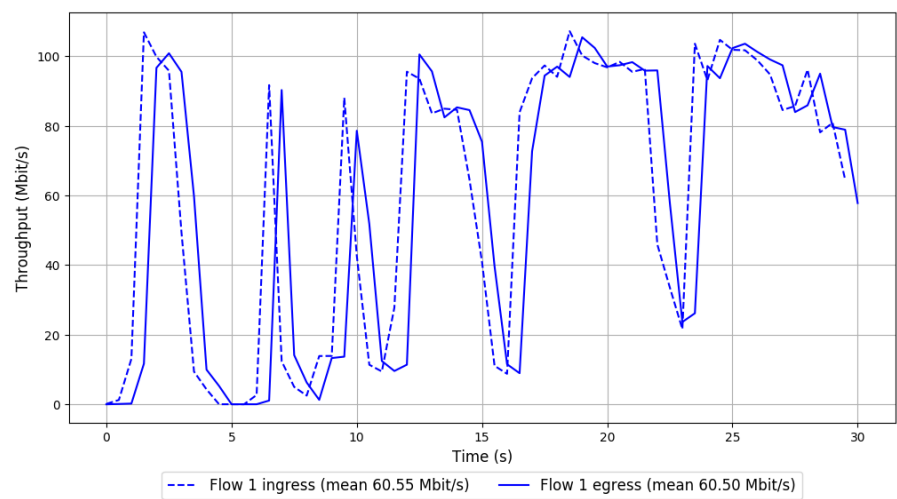
-- Flow 1:

Average throughput: 60.50 Mbit/s

95th percentile per-packet one-way delay: 66.079 ms

Loss rate: 0.50%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

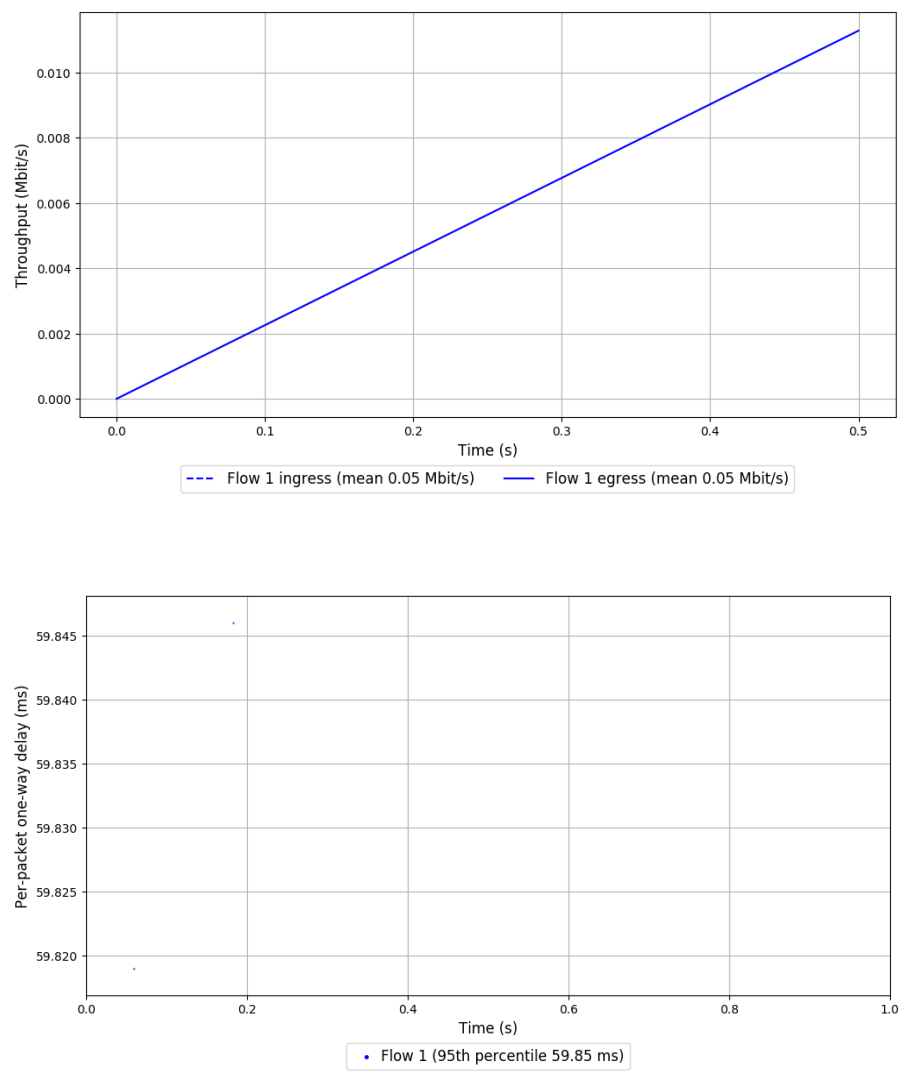
Start at: 2018-08-11 16:14:25

End at: 2018-08-11 16:14:55

Local clock offset: -0.62 ms

Remote clock offset: 1.148 ms

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

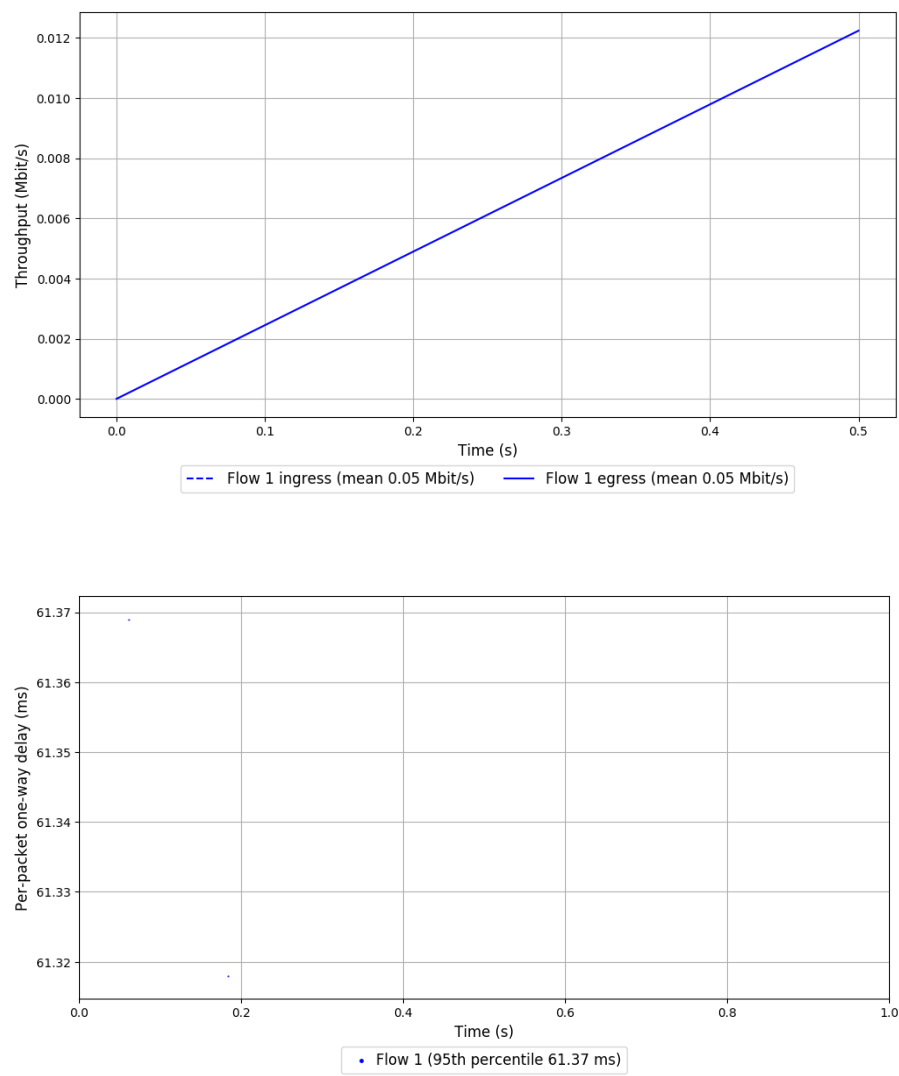
Start at: 2018-08-11 16:36:49

End at: 2018-08-11 16:37:19

Local clock offset: -0.652 ms

Remote clock offset: -0.19 ms

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

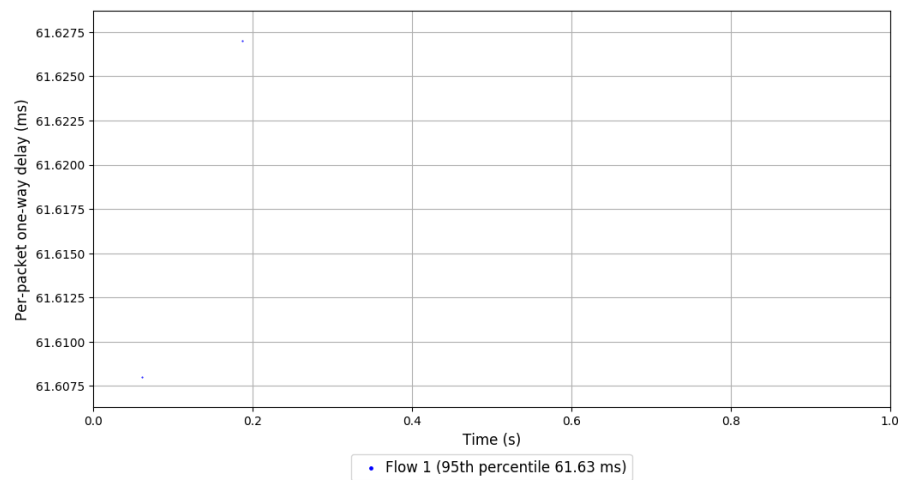
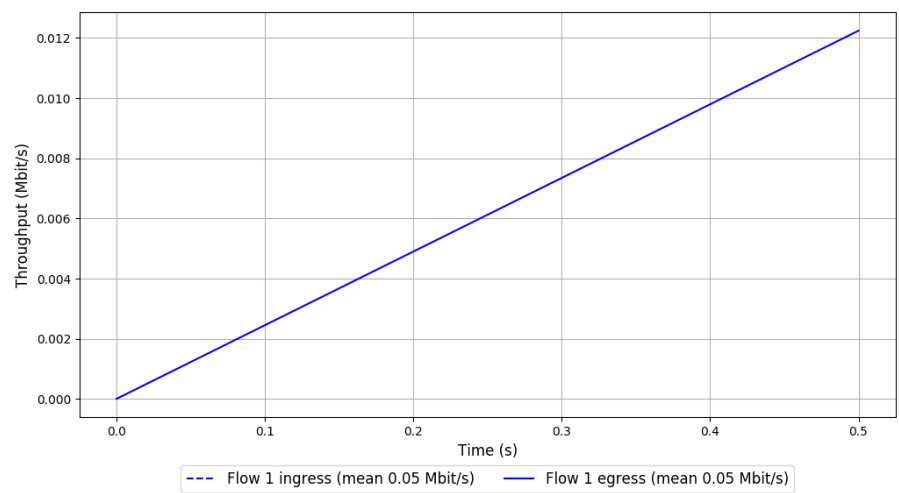
Start at: 2018-08-11 17:00:00

End at: 2018-08-11 17:00:30

Local clock offset: -0.229 ms

Remote clock offset: -0.503 ms

Run 7: Report of QUIC Cubic — Data Link

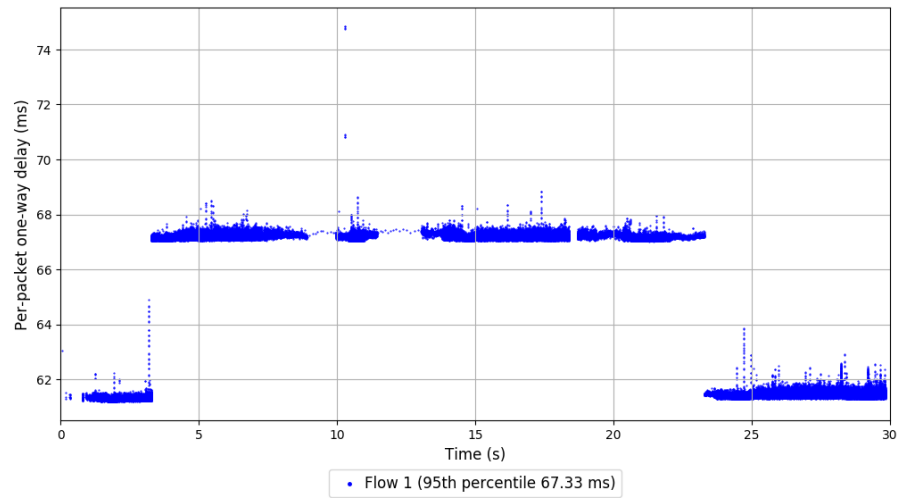
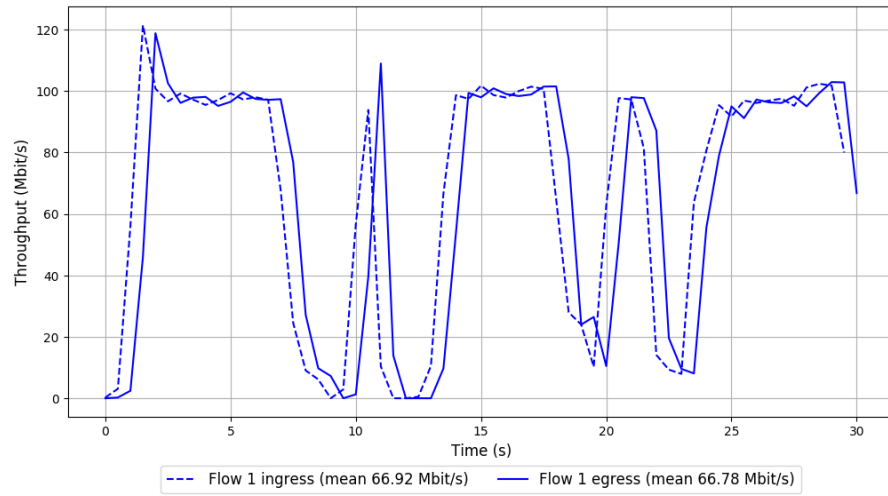


Run 8: Statistics of QUIC Cubic

Start at: 2018-08-11 17:23:01
End at: 2018-08-11 17:23:31
Local clock offset: 0.316 ms
Remote clock offset: -0.429 ms

Below is generated by plot.py at 2018-08-11 20:19:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 66.78 Mbit/s
95th percentile per-packet one-way delay: 67.330 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 66.78 Mbit/s
95th percentile per-packet one-way delay: 67.330 ms
Loss rate: 0.63%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-08-11 17:46:02

End at: 2018-08-11 17:46:32

Local clock offset: 0.589 ms

Remote clock offset: 0.606 ms

Below is generated by plot.py at 2018-08-11 20:19:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.15 Mbit/s

95th percentile per-packet one-way delay: 60.639 ms

Loss rate: 0.62%

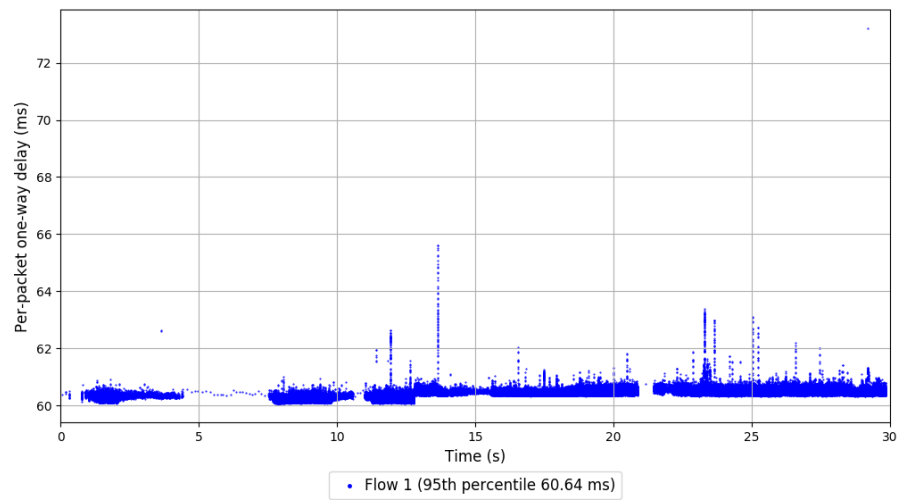
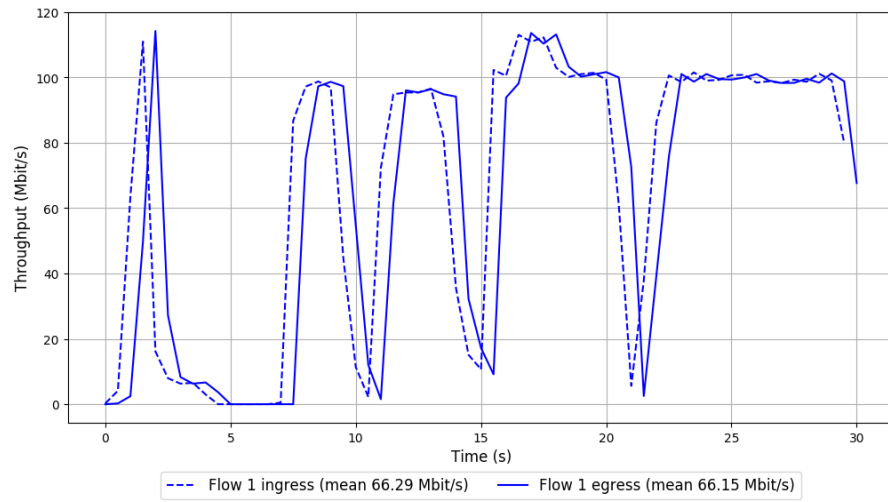
-- Flow 1:

Average throughput: 66.15 Mbit/s

95th percentile per-packet one-way delay: 60.639 ms

Loss rate: 0.62%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

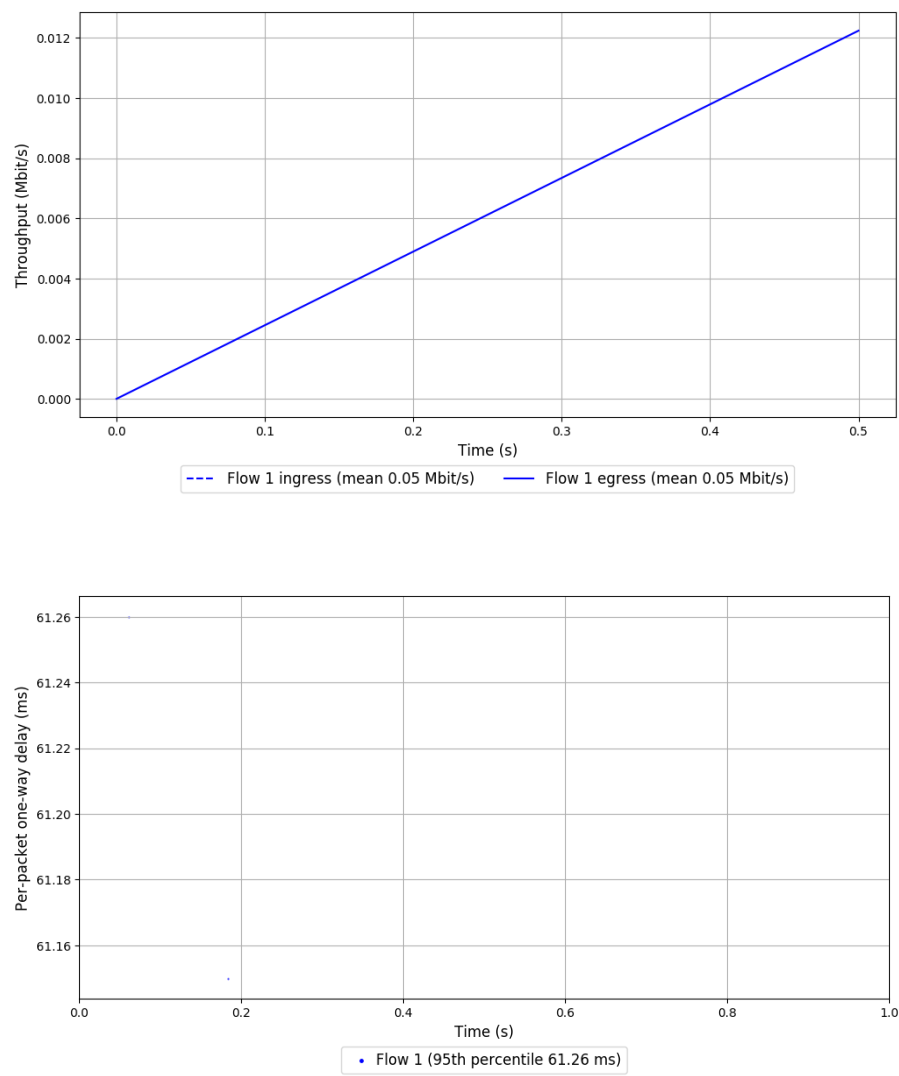
Start at: 2018-08-11 18:08:56

End at: 2018-08-11 18:09:26

Local clock offset: 0.844 ms

Remote clock offset: -0.034 ms

Run 10: Report of QUIC Cubic — Data Link

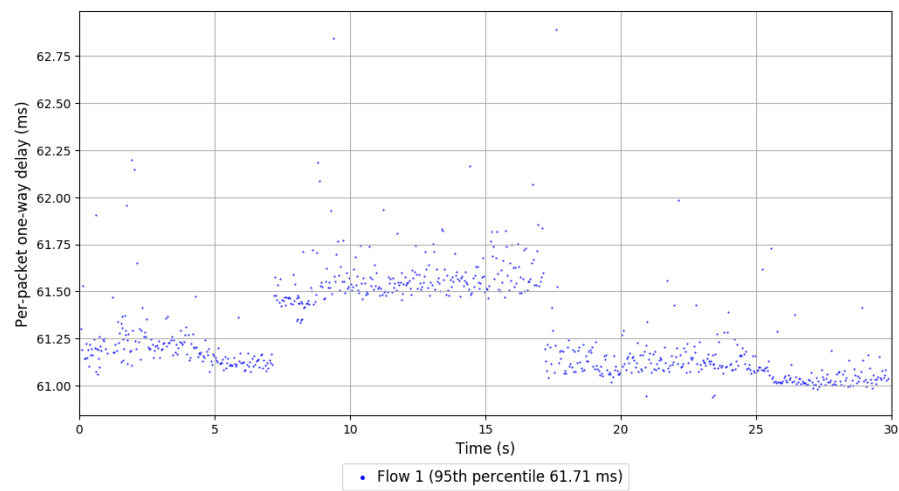
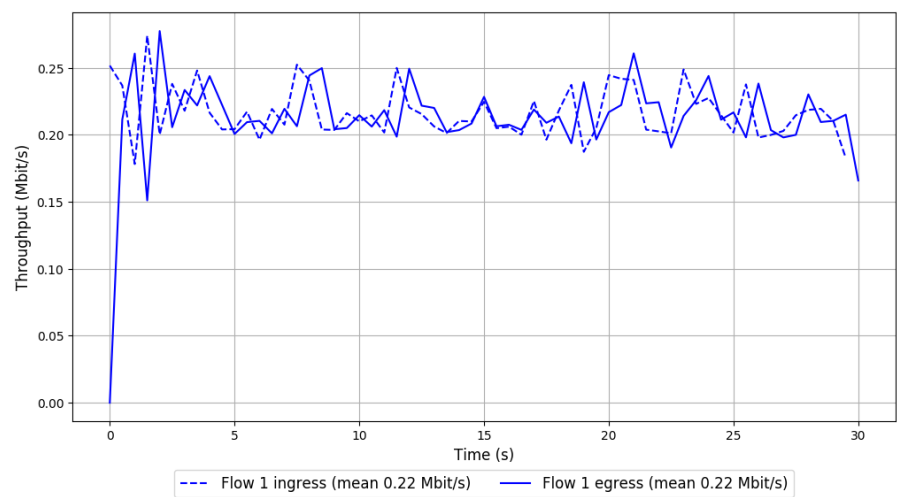


Run 1: Statistics of SCReAM

Start at: 2018-08-11 14:46:09
End at: 2018-08-11 14:46:39
Local clock offset: -0.408 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-08-11 20:19:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.710 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.710 ms
Loss rate: 0.38%

Run 1: Report of SReAM — Data Link

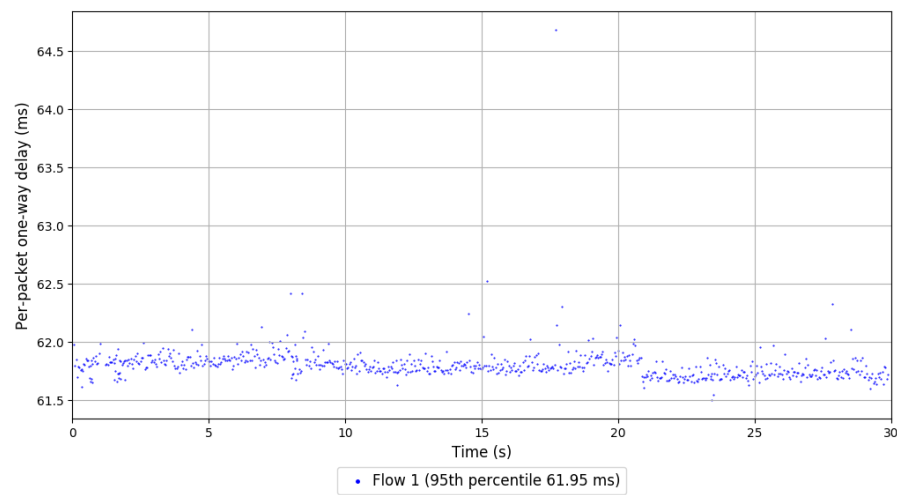
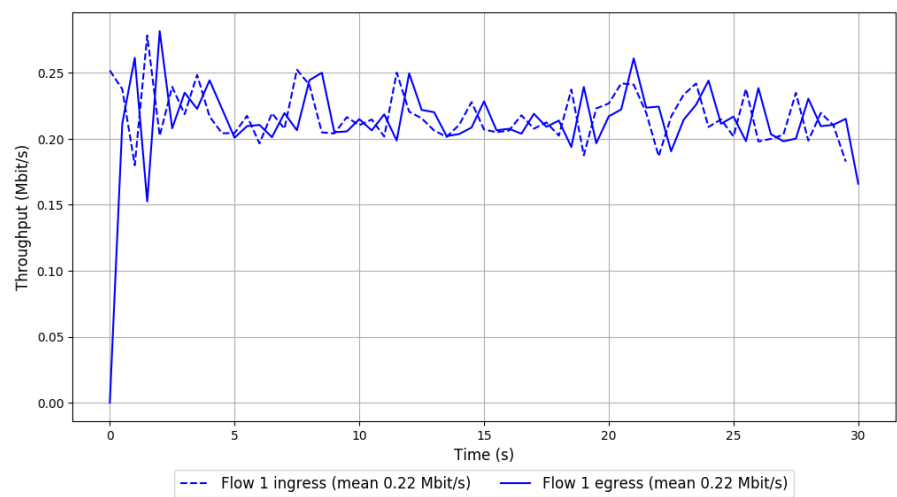


Run 2: Statistics of SCReAM

Start at: 2018-08-11 15:08:54
End at: 2018-08-11 15:09:24
Local clock offset: -0.516 ms
Remote clock offset: -0.659 ms

Below is generated by plot.py at 2018-08-11 20:19:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.954 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.954 ms
Loss rate: 0.38%

Run 2: Report of SReAM — Data Link

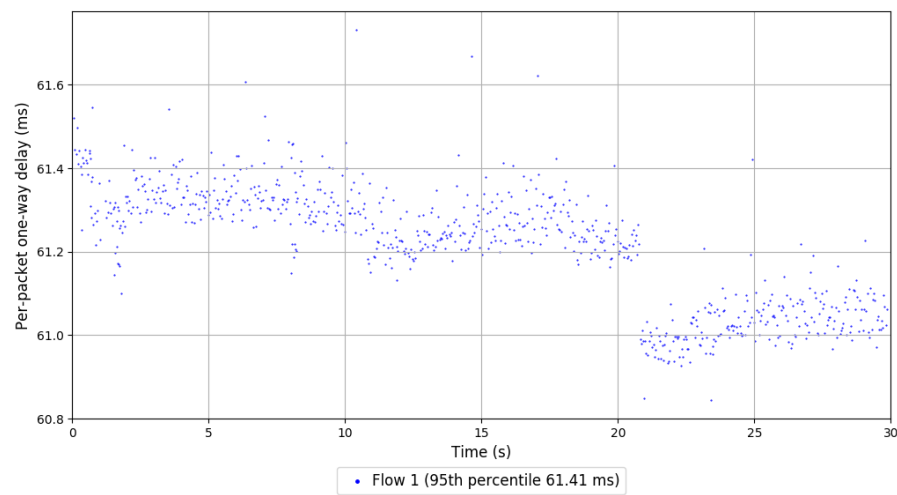
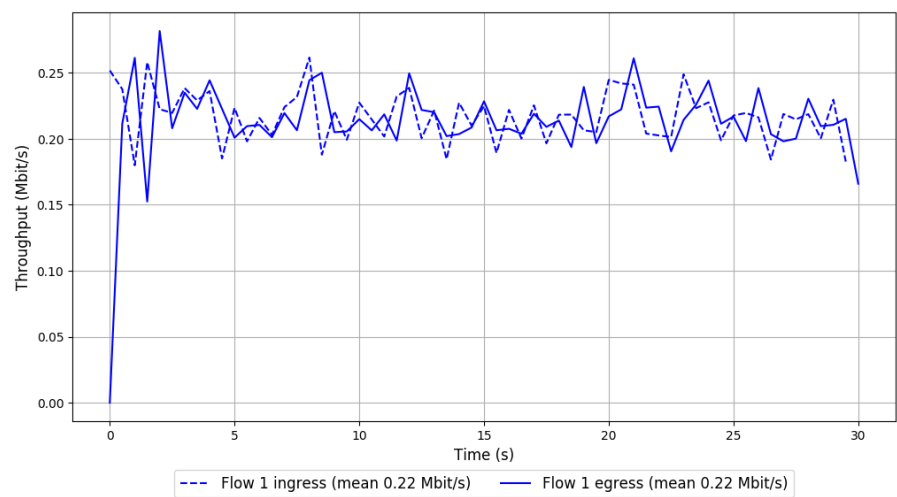


Run 3: Statistics of SCReAM

Start at: 2018-08-11 15:31:44
End at: 2018-08-11 15:32:14
Local clock offset: -0.567 ms
Remote clock offset: -0.137 ms

Below is generated by plot.py at 2018-08-11 20:19:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.413 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.413 ms
Loss rate: 0.38%

Run 3: Report of SReAM — Data Link

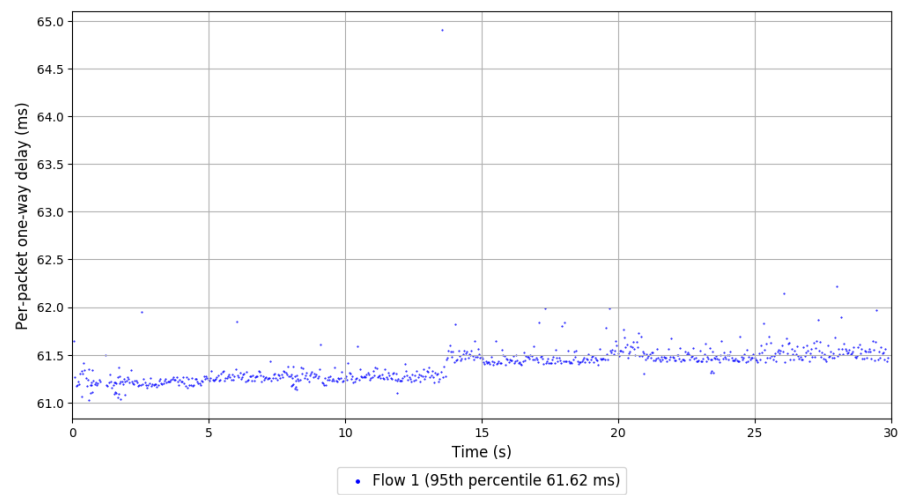
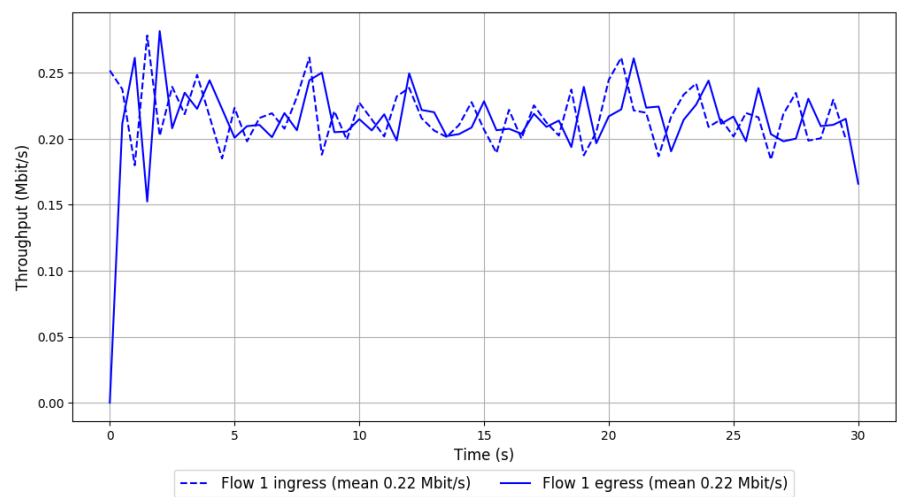


Run 4: Statistics of SCReAM

Start at: 2018-08-11 15:54:41
End at: 2018-08-11 15:55:11
Local clock offset: -0.57 ms
Remote clock offset: -0.149 ms

Below is generated by plot.py at 2018-08-11 20:19:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.625 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.625 ms
Loss rate: 0.51%

Run 4: Report of SReAM — Data Link

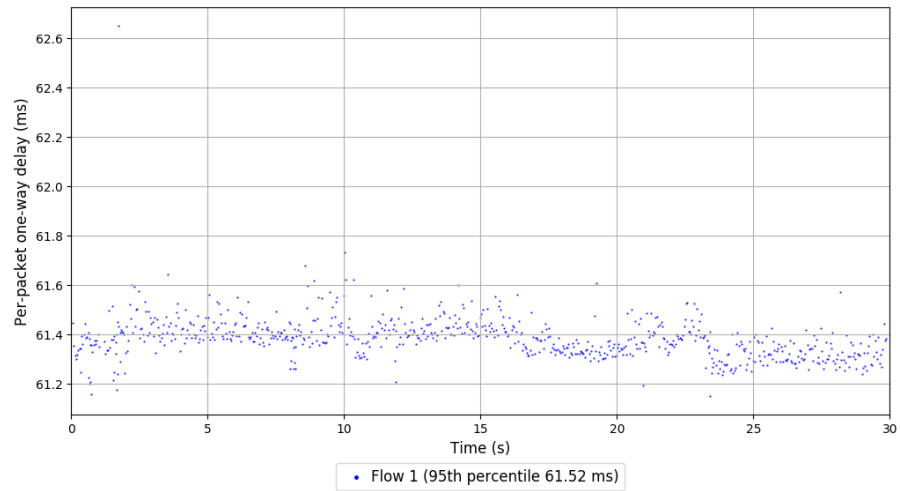
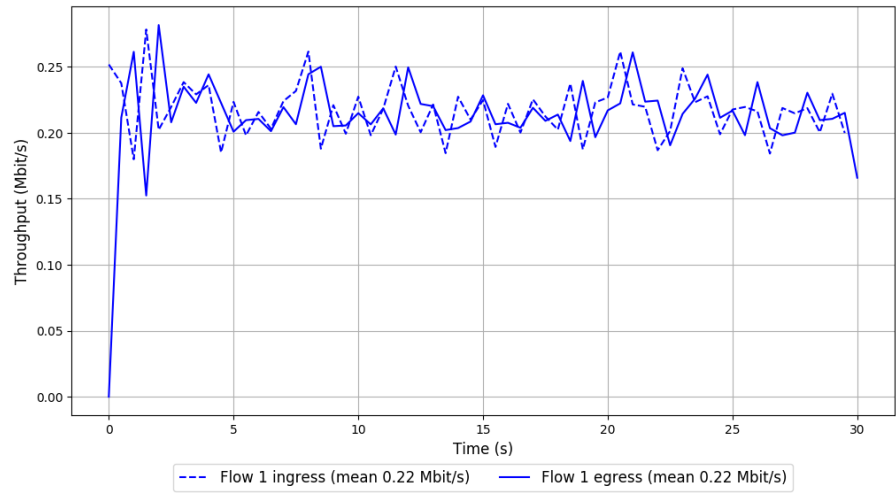


Run 5: Statistics of SCReAM

Start at: 2018-08-11 16:16:51
End at: 2018-08-11 16:17:21
Local clock offset: -0.645 ms
Remote clock offset: -0.307 ms

Below is generated by plot.py at 2018-08-11 20:19:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.521 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.521 ms
Loss rate: 0.51%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-08-11 16:39:20

End at: 2018-08-11 16:39:50

Local clock offset: -0.729 ms

Remote clock offset: 0.516 ms

Below is generated by plot.py at 2018-08-11 20:19:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.026 ms

Loss rate: 0.39%

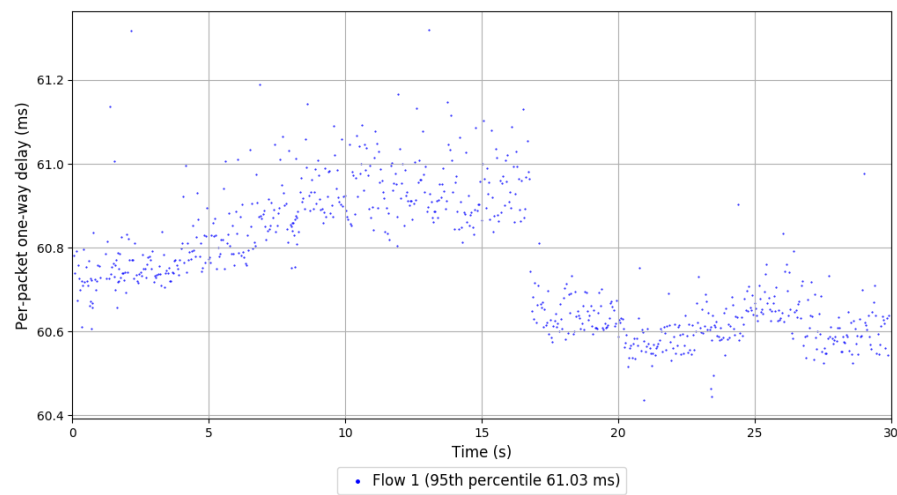
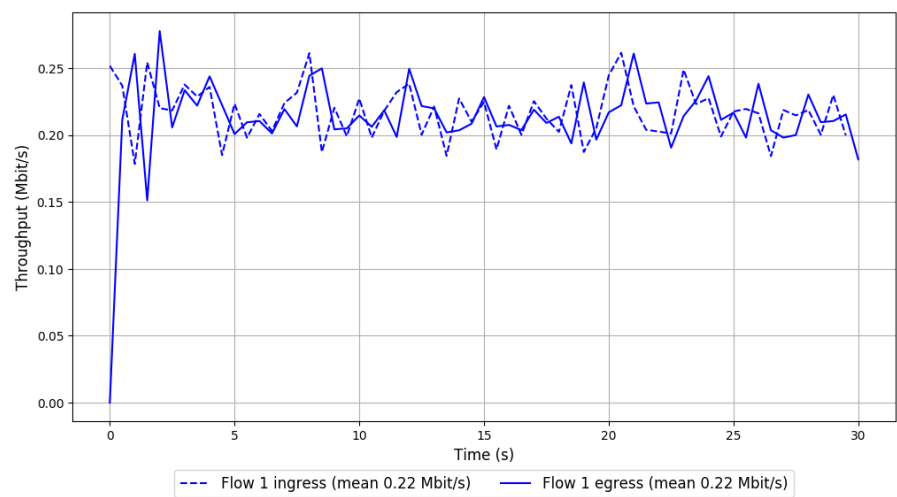
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.026 ms

Loss rate: 0.39%

Run 6: Report of SReAM — Data Link

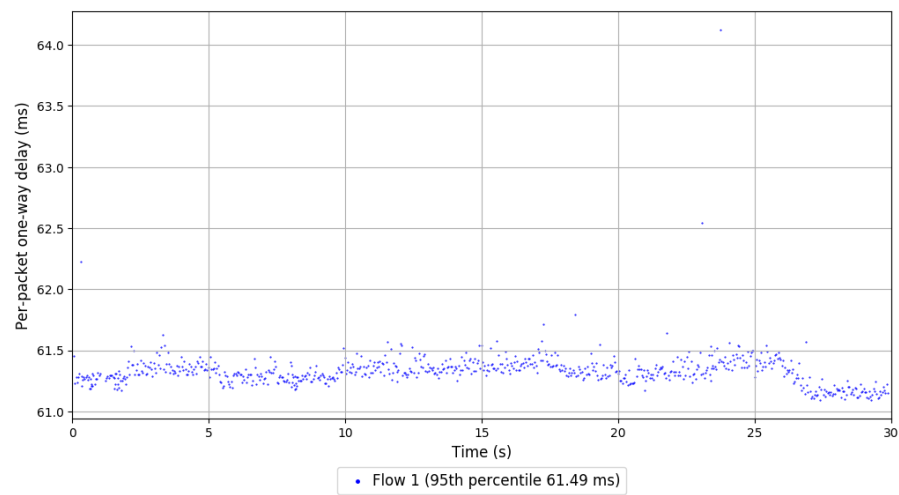
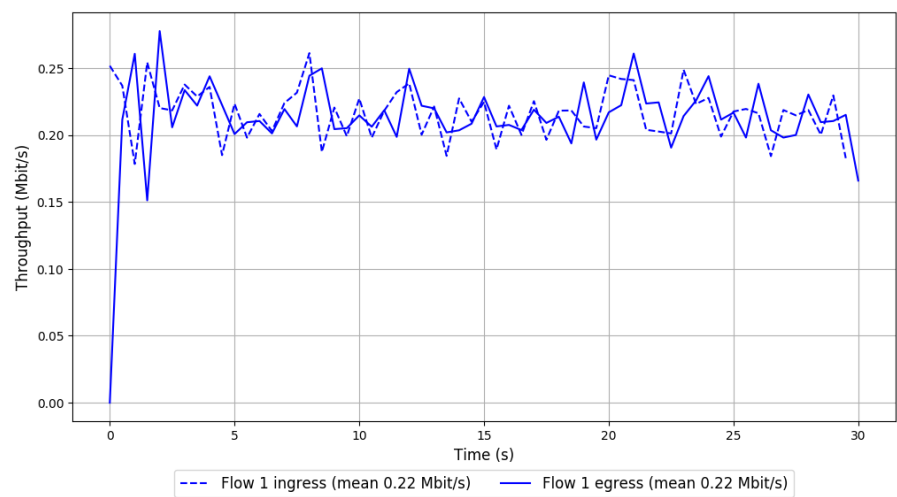


Run 7: Statistics of SCReAM

Start at: 2018-08-11 17:02:28
End at: 2018-08-11 17:02:58
Local clock offset: -0.109 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-08-11 20:19:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.489 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.489 ms
Loss rate: 0.38%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-08-11 17:25:34

End at: 2018-08-11 17:26:04

Local clock offset: 0.363 ms

Remote clock offset: 0.318 ms

Below is generated by plot.py at 2018-08-11 20:19:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.320 ms

Loss rate: 0.51%

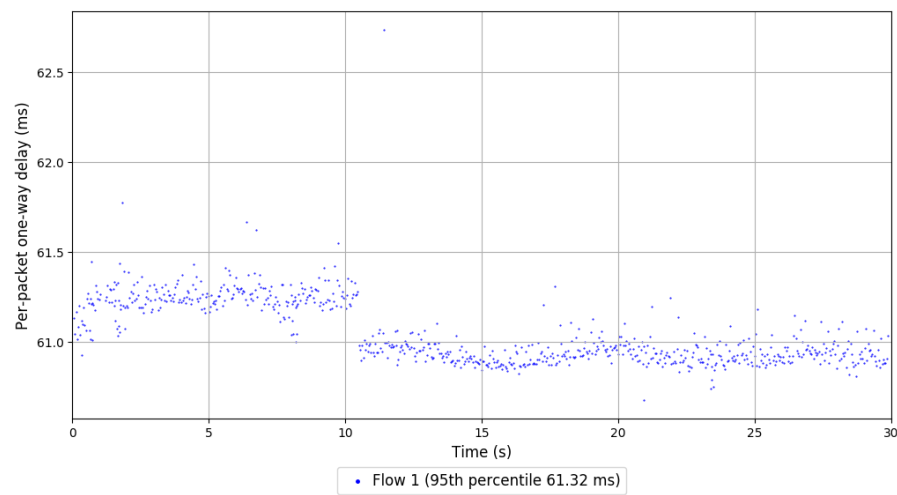
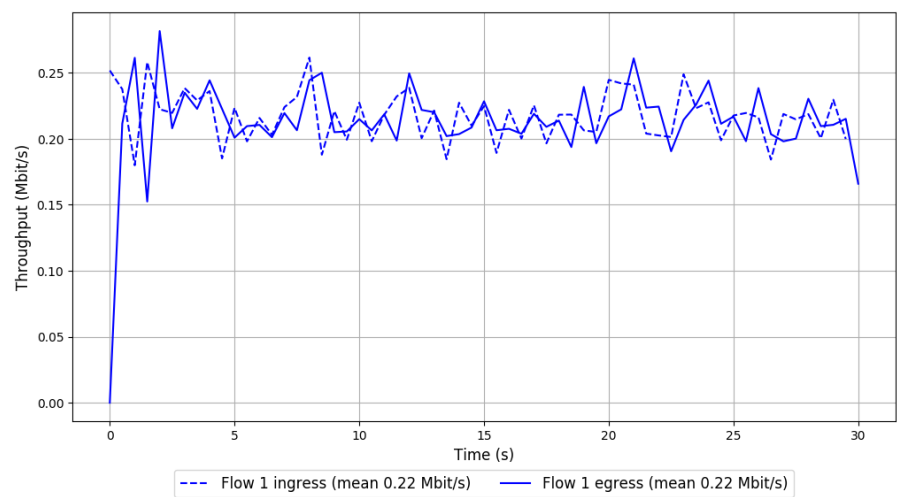
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.320 ms

Loss rate: 0.51%

Run 8: Report of SReAM — Data Link

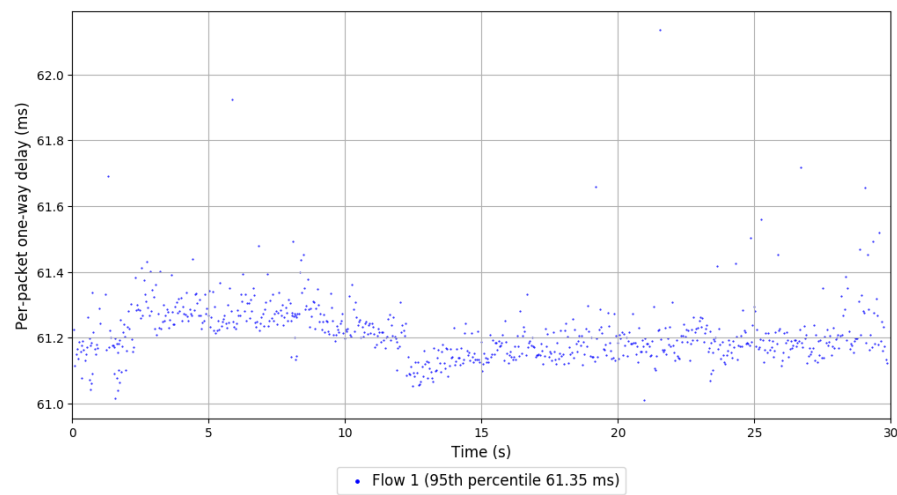
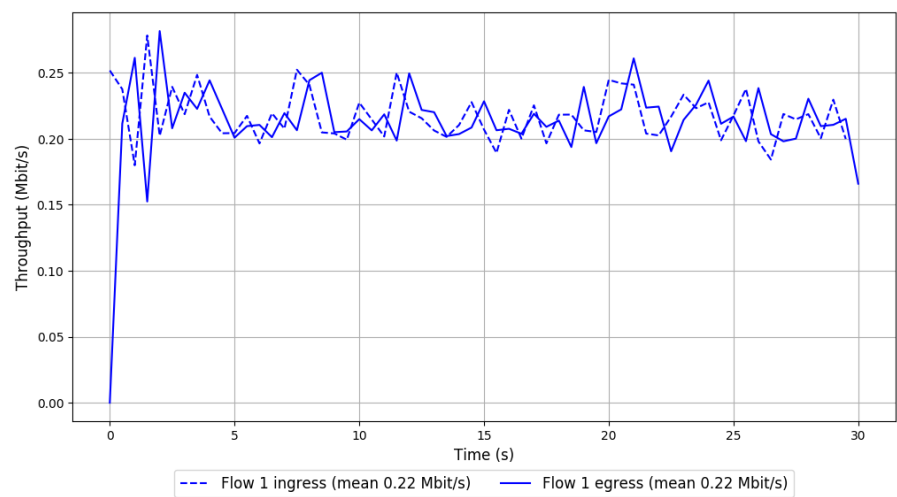


Run 9: Statistics of SCReAM

Start at: 2018-08-11 17:48:32
End at: 2018-08-11 17:49:02
Local clock offset: 0.57 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-08-11 20:19:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.351 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.351 ms
Loss rate: 0.51%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-08-11 18:11:25

End at: 2018-08-11 18:11:55

Local clock offset: 0.811 ms

Remote clock offset: 0.065 ms

Below is generated by plot.py at 2018-08-11 20:19:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.305 ms

Loss rate: 0.51%

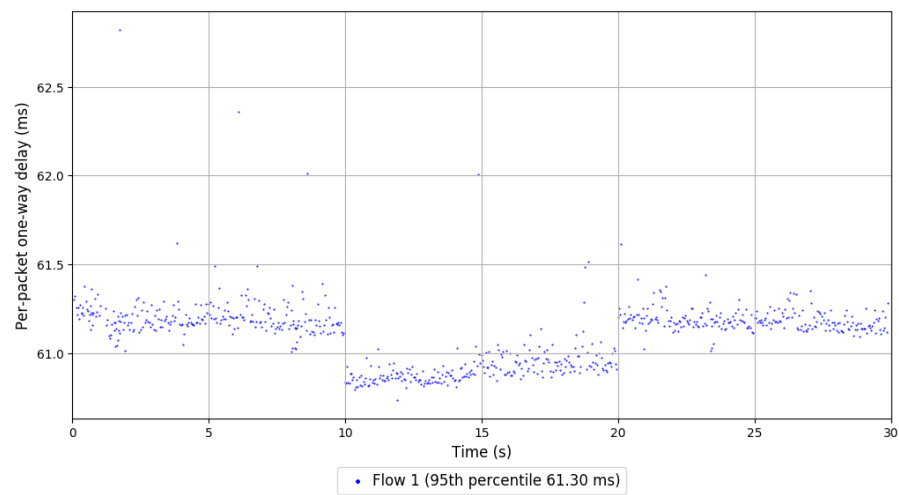
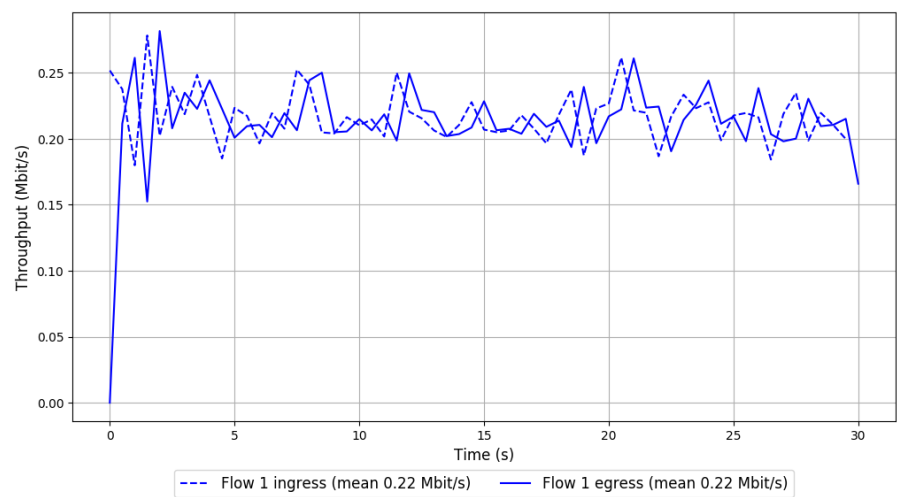
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.305 ms

Loss rate: 0.51%

Run 10: Report of SReAM — Data Link

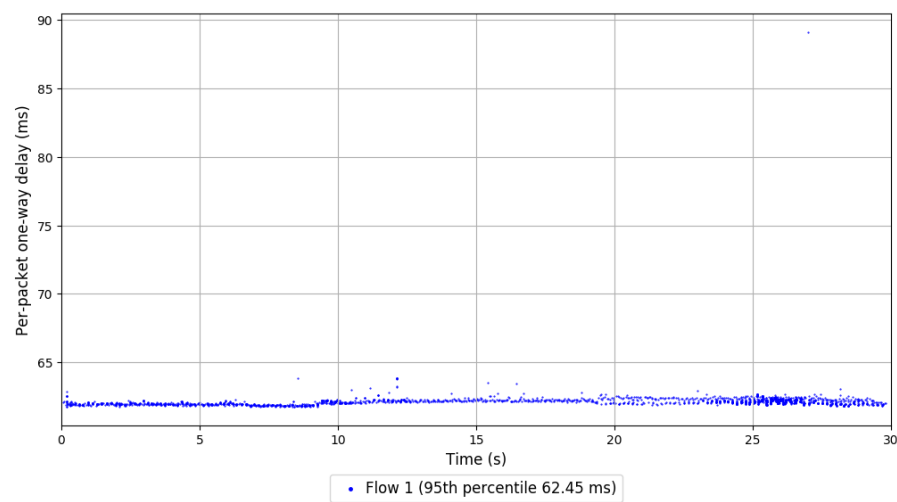
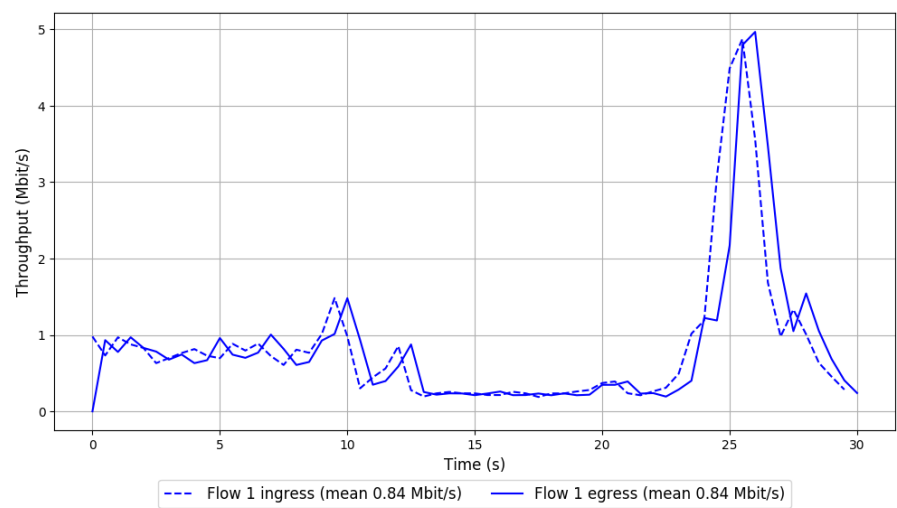


Run 1: Statistics of Sprout

Start at: 2018-08-11 14:40:55
End at: 2018-08-11 14:41:25
Local clock offset: -0.42 ms
Remote clock offset: -0.905 ms

Below is generated by plot.py at 2018-08-11 20:19:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.84 Mbit/s
95th percentile per-packet one-way delay: 62.447 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 0.84 Mbit/s
95th percentile per-packet one-way delay: 62.447 ms
Loss rate: 0.23%

Run 1: Report of Sprout — Data Link

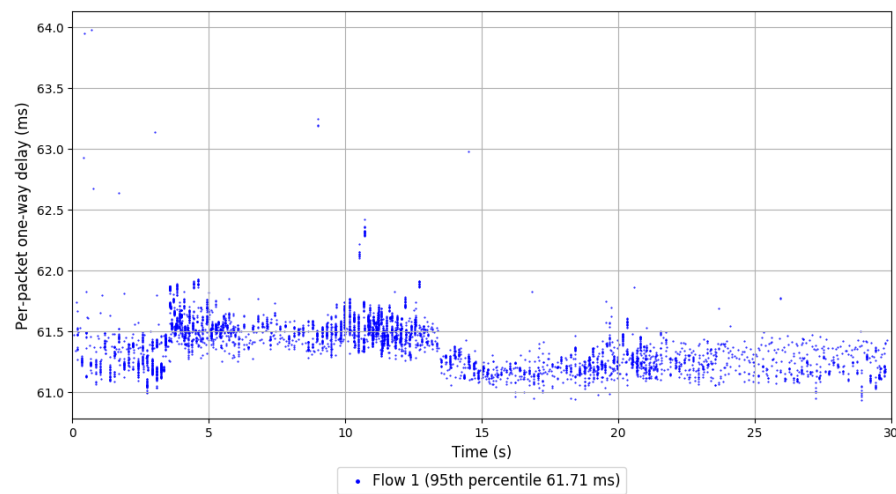
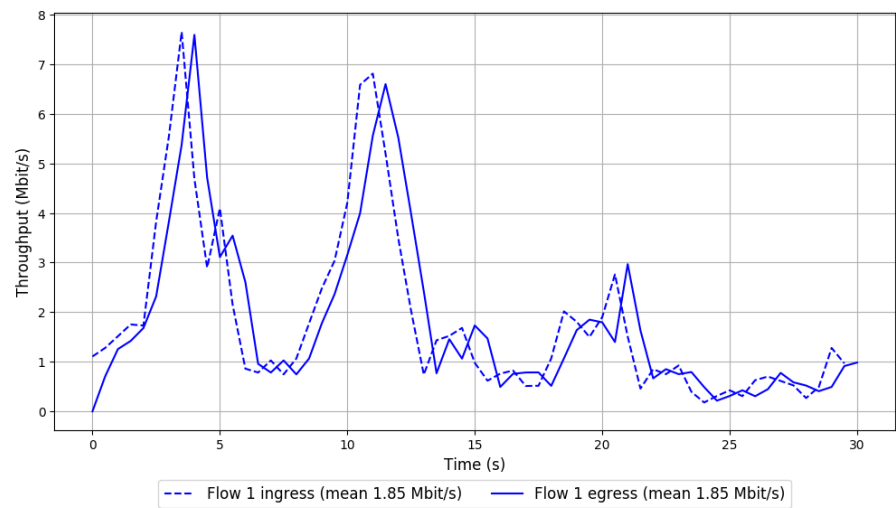


Run 2: Statistics of Sprout

Start at: 2018-08-11 15:03:41
End at: 2018-08-11 15:04:11
Local clock offset: -0.463 ms
Remote clock offset: -0.187 ms

Below is generated by plot.py at 2018-08-11 20:19:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.85 Mbit/s
95th percentile per-packet one-way delay: 61.714 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 1.85 Mbit/s
95th percentile per-packet one-way delay: 61.714 ms
Loss rate: 0.32%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-08-11 15:26:31

End at: 2018-08-11 15:27:01

Local clock offset: -0.5 ms

Remote clock offset: -0.9 ms

Below is generated by plot.py at 2018-08-11 20:19:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 62.414 ms

Loss rate: 1.07%

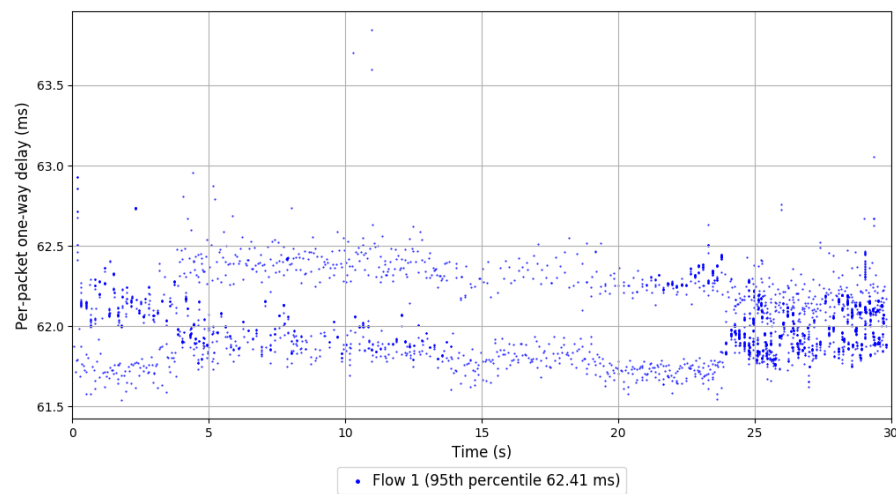
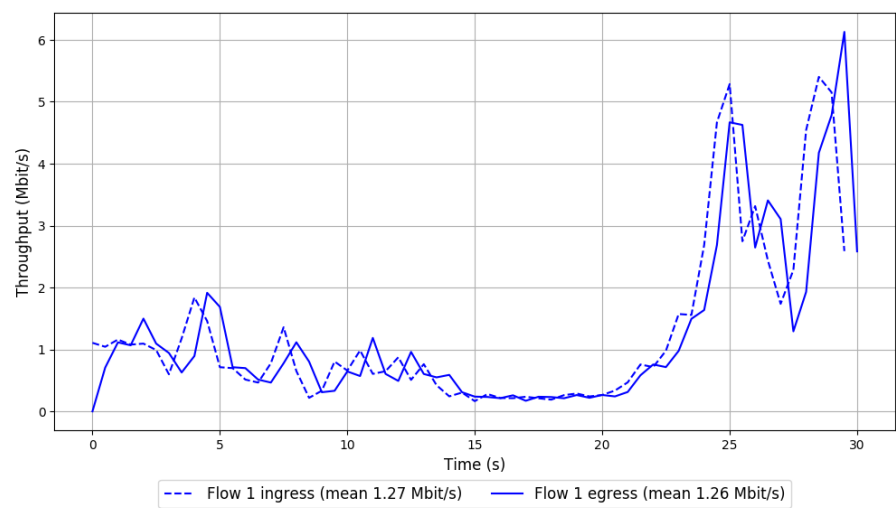
-- Flow 1:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 62.414 ms

Loss rate: 1.07%

Run 3: Report of Sprout — Data Link

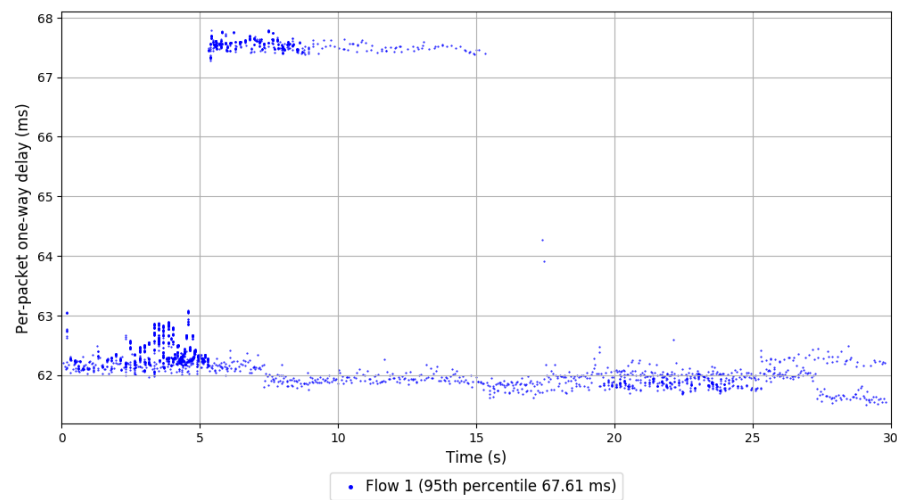
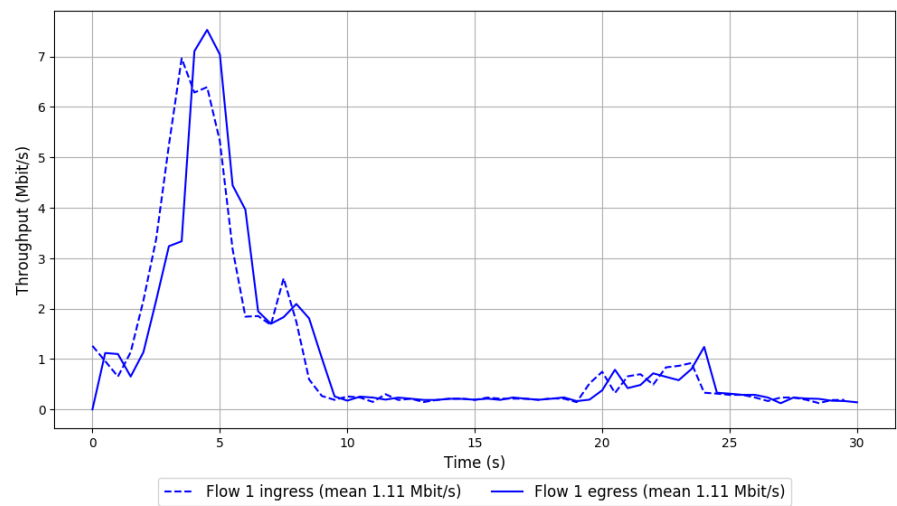


Run 4: Statistics of Sprout

Start at: 2018-08-11 15:49:29
End at: 2018-08-11 15:49:59
Local clock offset: -0.587 ms
Remote clock offset: -0.844 ms

Below is generated by plot.py at 2018-08-11 20:19:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.11 Mbit/s
95th percentile per-packet one-way delay: 67.608 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 1.11 Mbit/s
95th percentile per-packet one-way delay: 67.608 ms
Loss rate: 0.10%

Run 4: Report of Sprout — Data Link

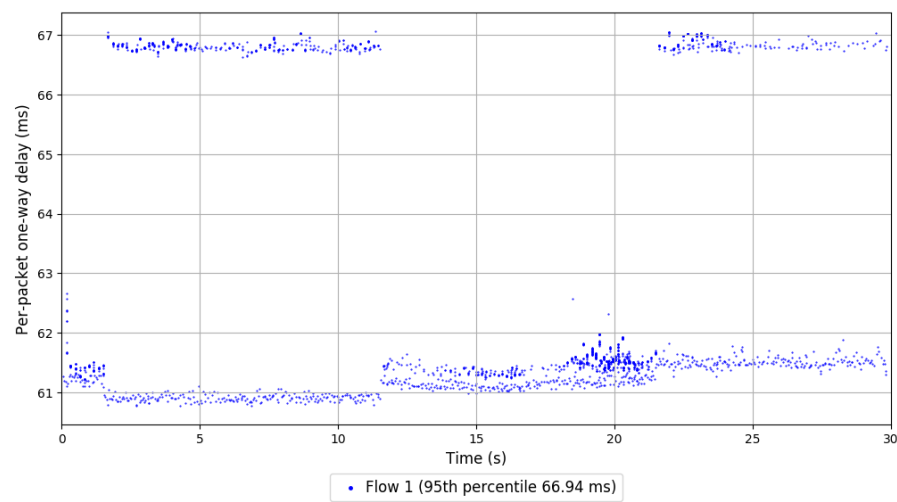
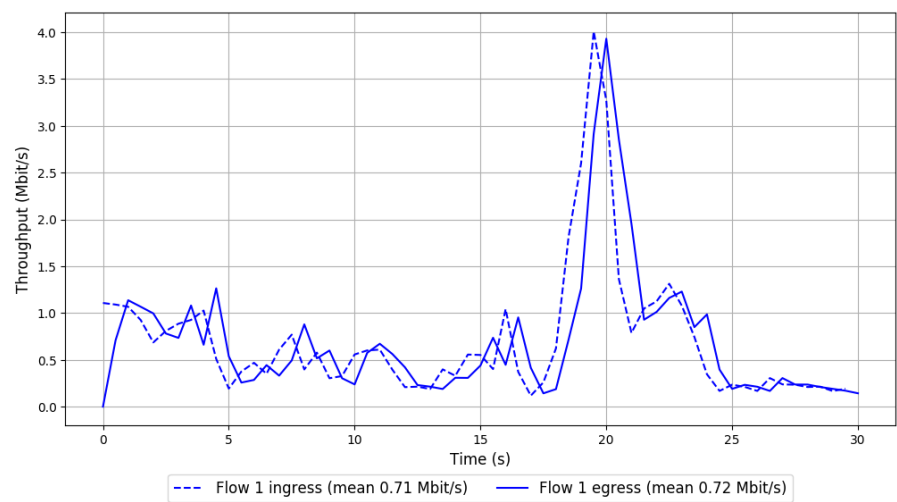


Run 5: Statistics of Sprout

Start at: 2018-08-11 16:11:43
End at: 2018-08-11 16:12:13
Local clock offset: -0.545 ms
Remote clock offset: -0.097 ms

Below is generated by plot.py at 2018-08-11 20:19:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 66.936 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 66.936 ms
Loss rate: 0.16%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-08-11 16:34:04

End at: 2018-08-11 16:34:34

Local clock offset: -0.697 ms

Remote clock offset: 0.247 ms

Below is generated by plot.py at 2018-08-11 20:19:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 66.528 ms

Loss rate: 0.12%

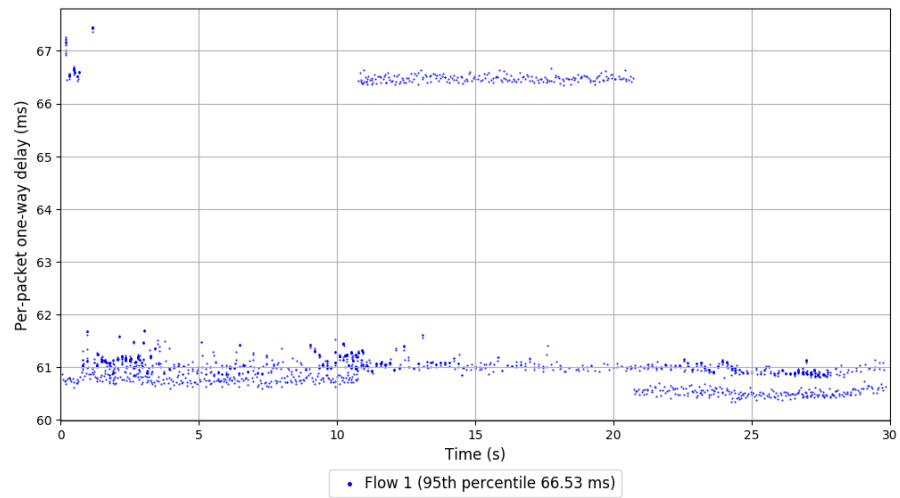
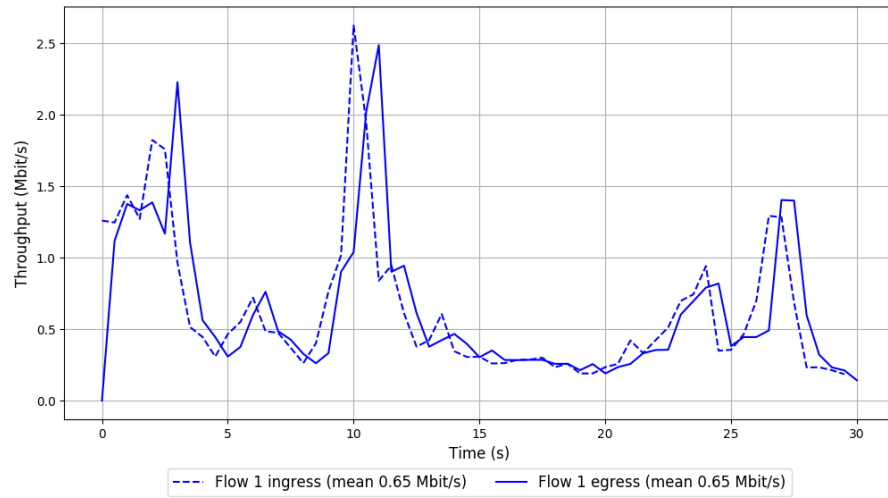
-- Flow 1:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 66.528 ms

Loss rate: 0.12%

Run 6: Report of Sprout — Data Link

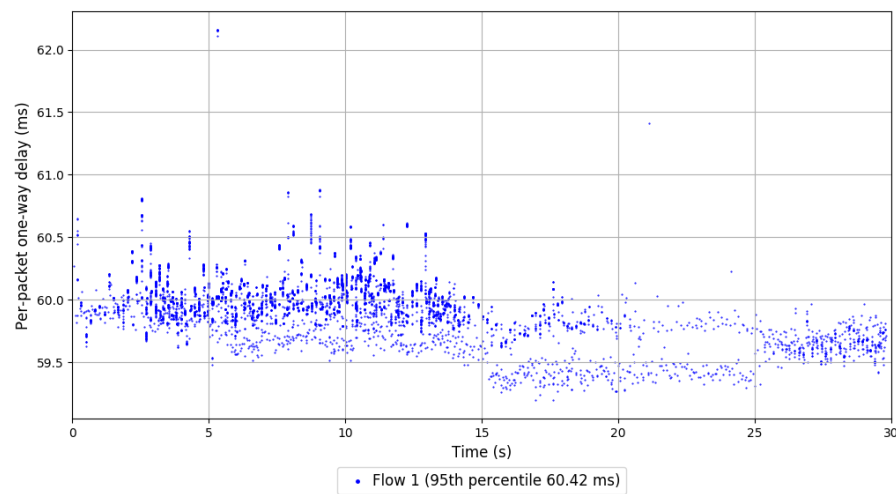
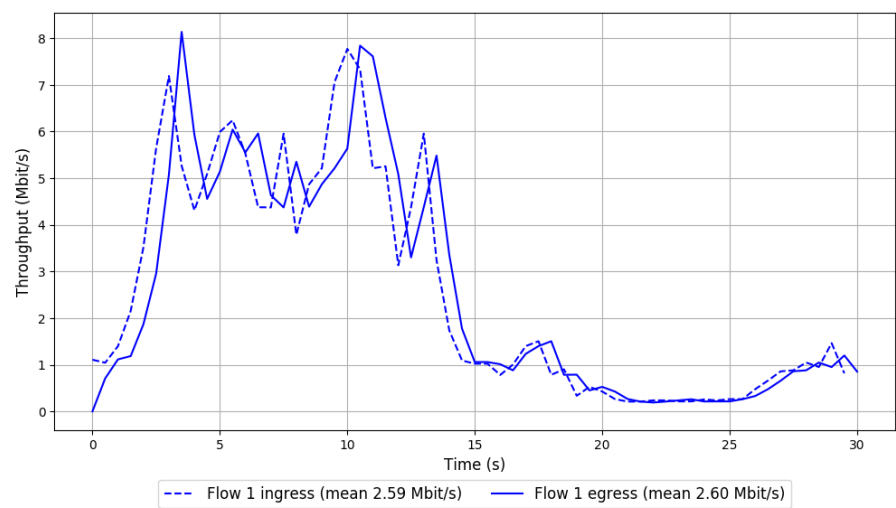


Run 7: Statistics of Sprout

Start at: 2018-08-11 16:57:09
End at: 2018-08-11 16:57:39
Local clock offset: -0.397 ms
Remote clock offset: 1.424 ms

Below is generated by plot.py at 2018-08-11 20:19:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.60 Mbit/s
95th percentile per-packet one-way delay: 60.419 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 2.60 Mbit/s
95th percentile per-packet one-way delay: 60.419 ms
Loss rate: 0.15%

Run 7: Report of Sprout — Data Link

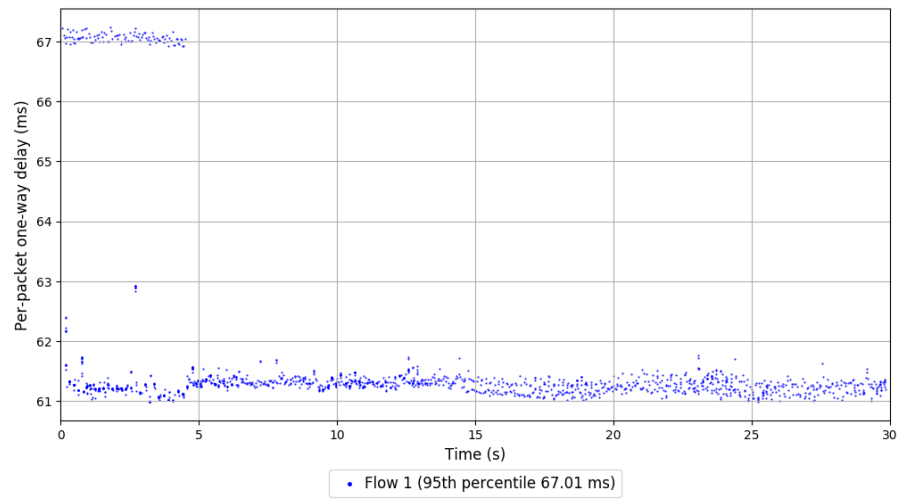
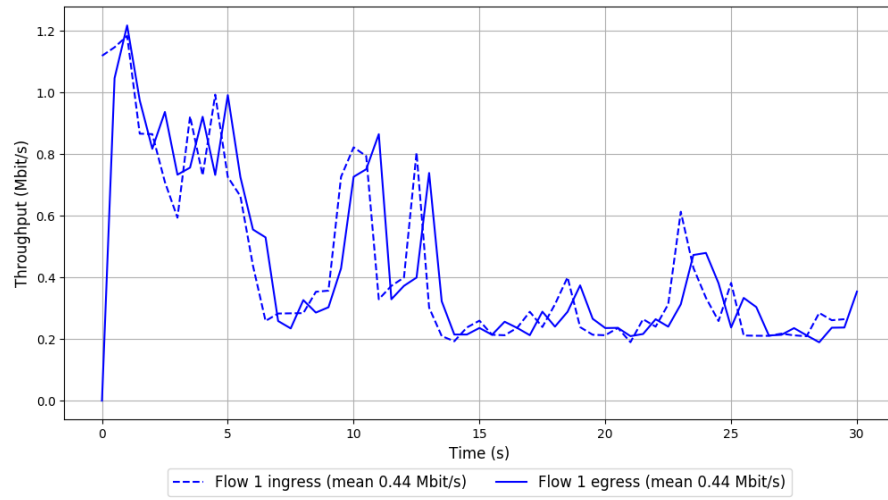


Run 8: Statistics of Sprout

Start at: 2018-08-11 17:20:20
End at: 2018-08-11 17:20:50
Local clock offset: 0.27 ms
Remote clock offset: -0.157 ms

Below is generated by plot.py at 2018-08-11 20:19:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 67.013 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 67.013 ms
Loss rate: 0.01%

Run 8: Report of Sprout — Data Link

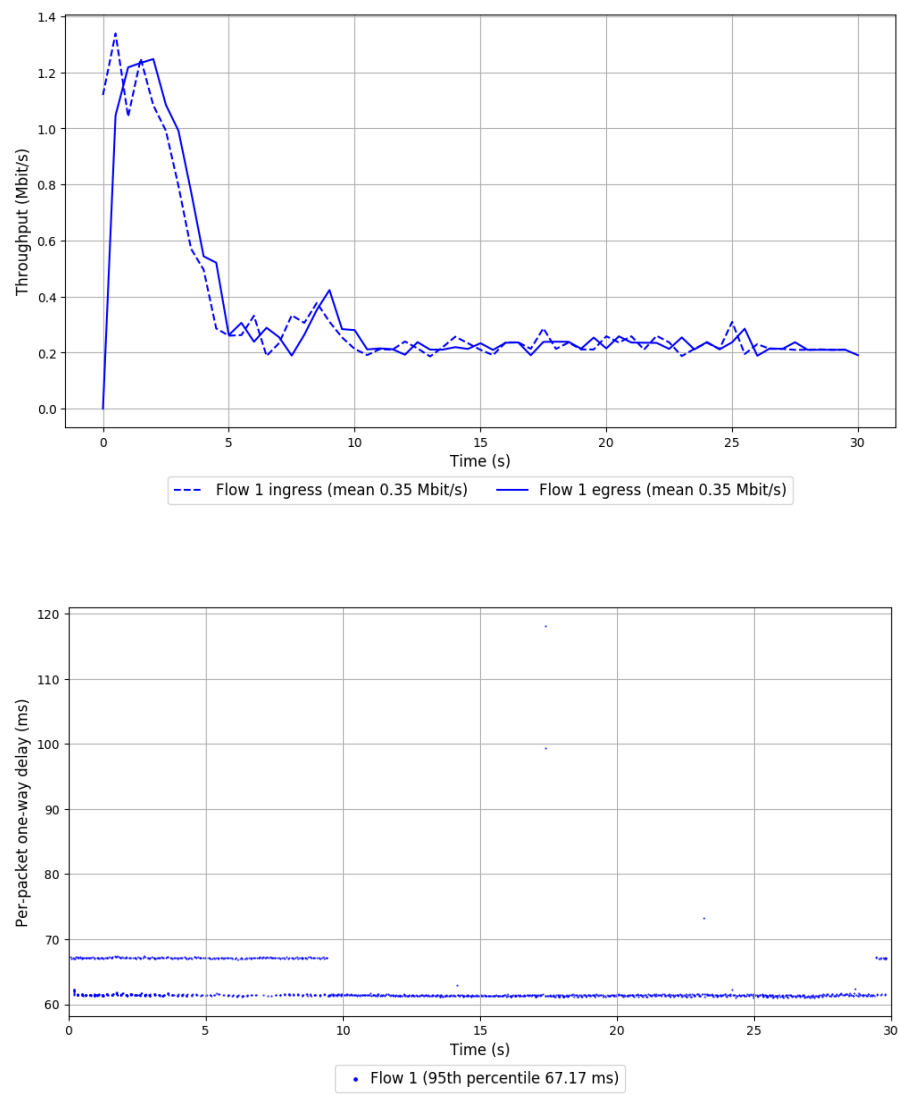


Run 9: Statistics of Sprout

Start at: 2018-08-11 17:43:17
End at: 2018-08-11 17:43:47
Local clock offset: 0.518 ms
Remote clock offset: -0.137 ms

Below is generated by plot.py at 2018-08-11 20:19:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 67.175 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 67.175 ms
Loss rate: 0.22%

Run 9: Report of Sprout — Data Link

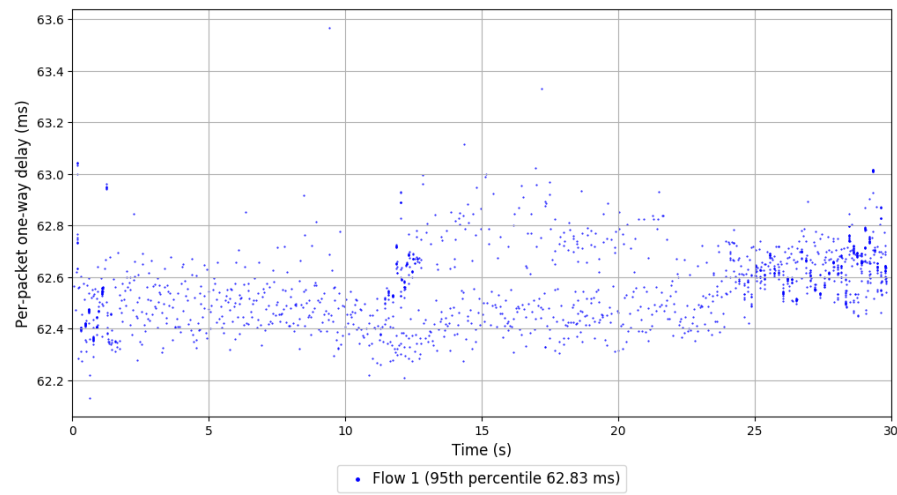
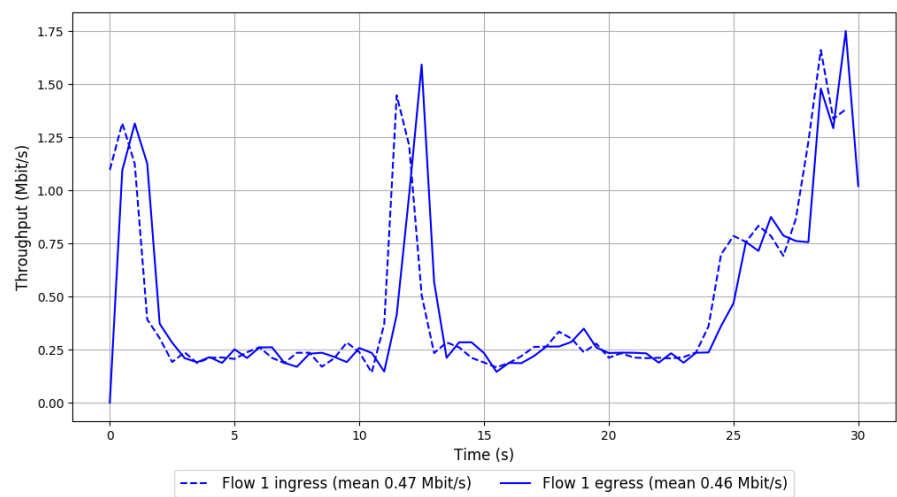


Run 10: Statistics of Sprout

Start at: 2018-08-11 18:06:13
End at: 2018-08-11 18:06:43
Local clock offset: 0.752 ms
Remote clock offset: -1.315 ms

Below is generated by plot.py at 2018-08-11 20:19:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 62.827 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 62.827 ms
Loss rate: 1.29%

Run 10: Report of Sprout — Data Link

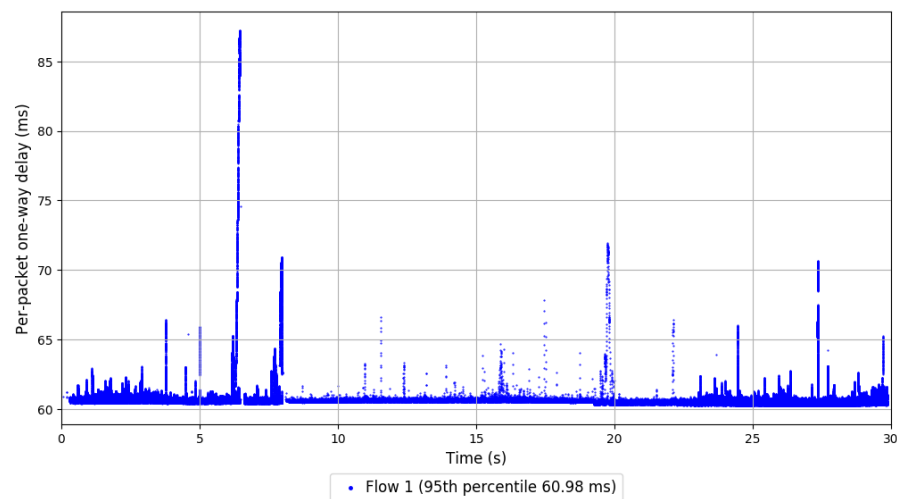
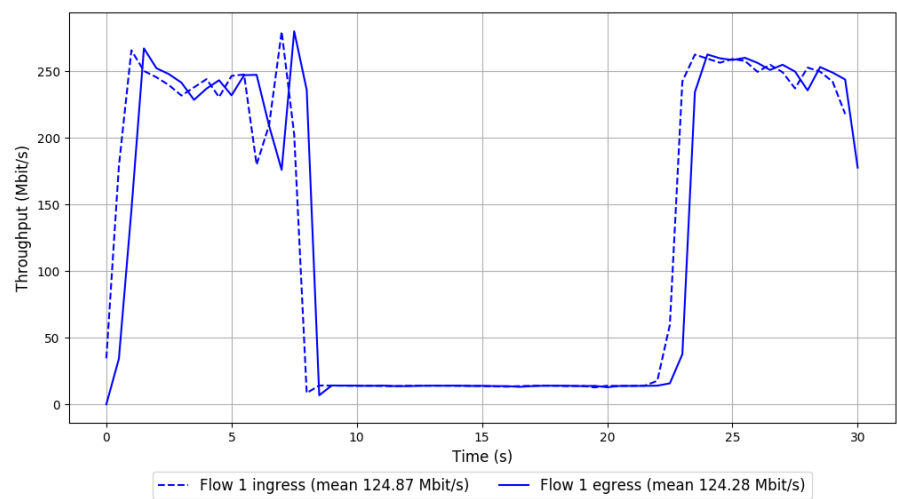


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-08-11 14:35:25
End at: 2018-08-11 14:35:55
Local clock offset: -0.387 ms
Remote clock offset: 0.458 ms

# Below is generated by plot.py at 2018-08-11 20:19:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 124.28 Mbit/s
95th percentile per-packet one-way delay: 60.977 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 124.28 Mbit/s
95th percentile per-packet one-way delay: 60.977 ms
Loss rate: 0.94%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2018-08-11 14:58:08

End at: 2018-08-11 14:58:38

Local clock offset: -0.38 ms

Remote clock offset: -0.004 ms

Below is generated by plot.py at 2018-08-11 20:20:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.54 Mbit/s

95th percentile per-packet one-way delay: 61.688 ms

Loss rate: 0.47%

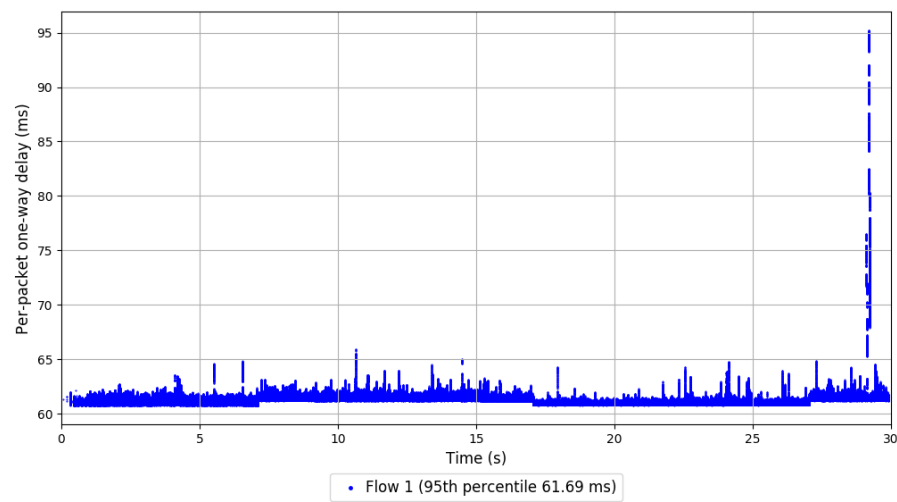
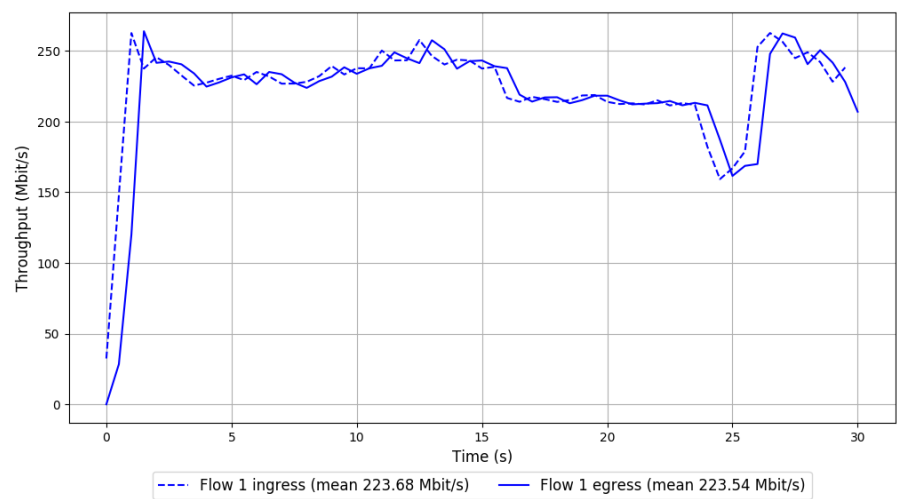
-- Flow 1:

Average throughput: 223.54 Mbit/s

95th percentile per-packet one-way delay: 61.688 ms

Loss rate: 0.47%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-08-11 15:20:57

End at: 2018-08-11 15:21:27

Local clock offset: -0.497 ms

Remote clock offset: 1.072 ms

Below is generated by plot.py at 2018-08-11 20:20:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 159.09 Mbit/s

95th percentile per-packet one-way delay: 60.519 ms

Loss rate: 0.46%

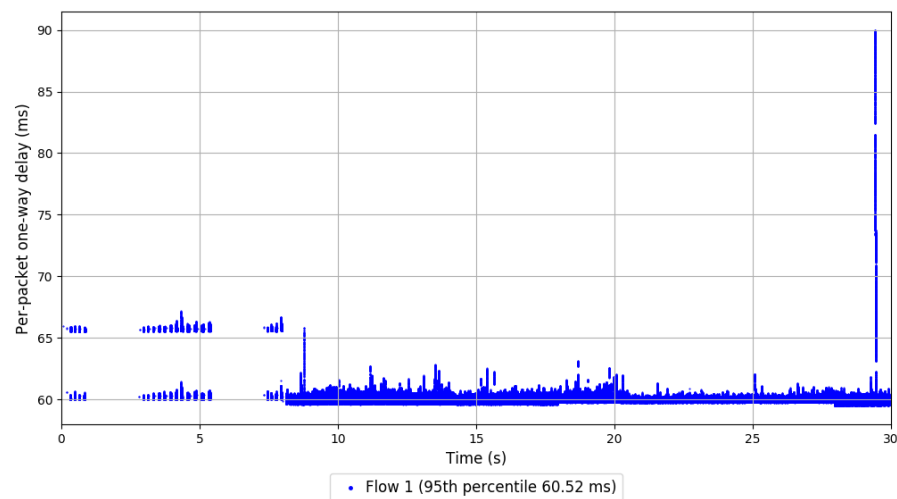
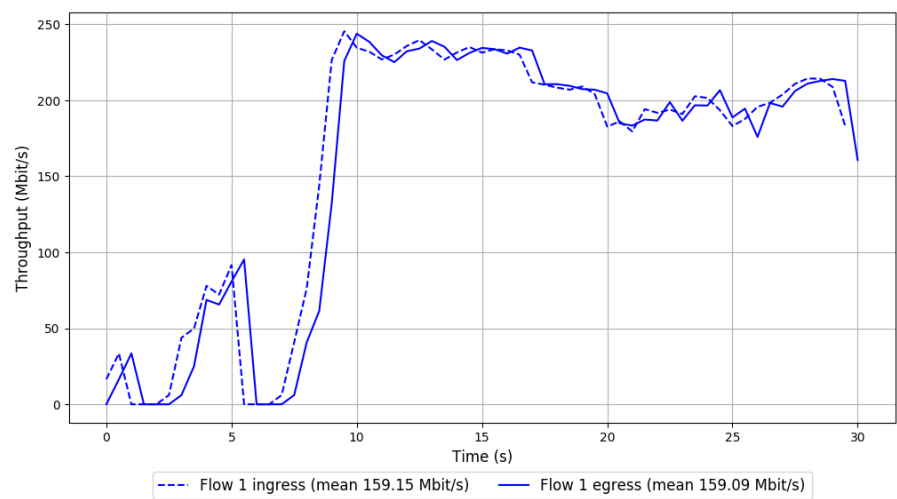
-- Flow 1:

Average throughput: 159.09 Mbit/s

95th percentile per-packet one-way delay: 60.519 ms

Loss rate: 0.46%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-08-11 15:43:55

End at: 2018-08-11 15:44:25

Local clock offset: -0.562 ms

Remote clock offset: 0.608 ms

Below is generated by plot.py at 2018-08-11 20:22:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 233.78 Mbit/s

95th percentile per-packet one-way delay: 60.888 ms

Loss rate: 0.00%

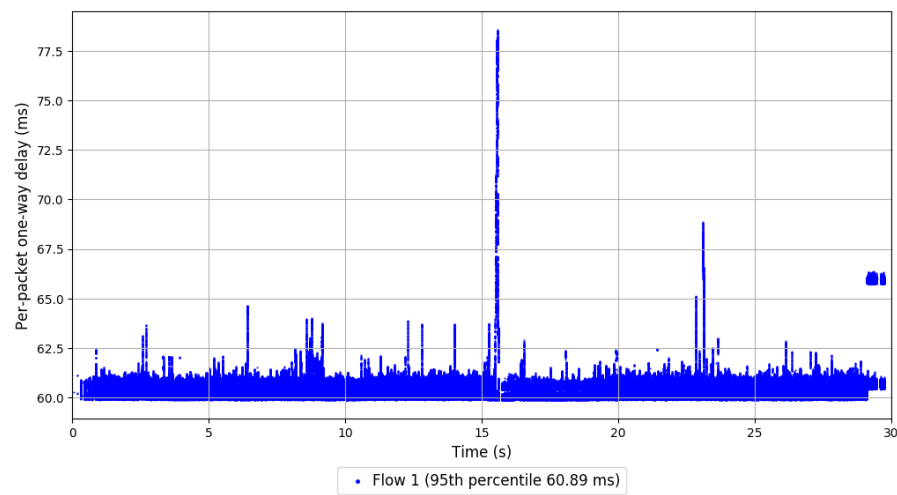
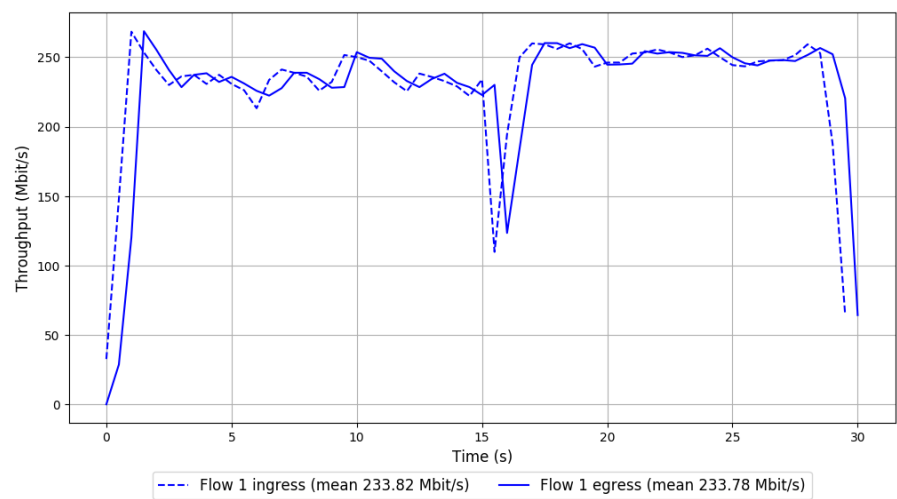
-- Flow 1:

Average throughput: 233.78 Mbit/s

95th percentile per-packet one-way delay: 60.888 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-08-11 16:06:28

End at: 2018-08-11 16:06:58

Local clock offset: -0.62 ms

Remote clock offset: -0.256 ms

Below is generated by plot.py at 2018-08-11 20:22:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.54 Mbit/s

95th percentile per-packet one-way delay: 67.123 ms

Loss rate: 0.00%

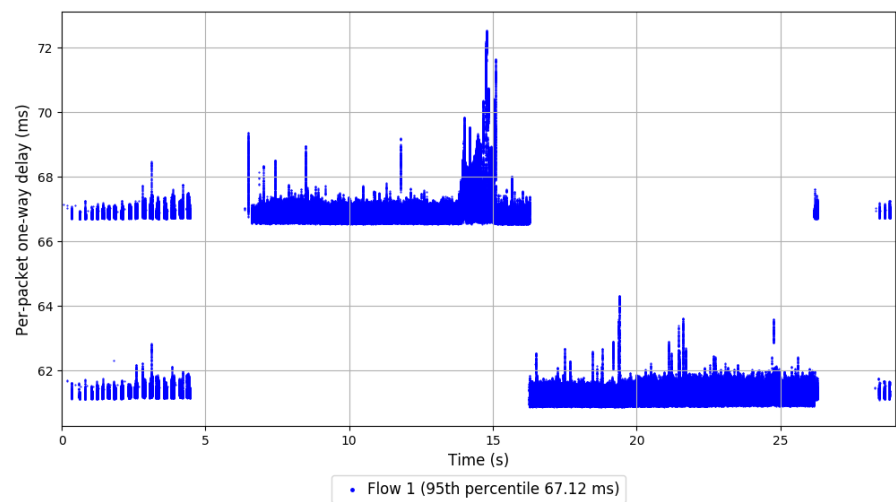
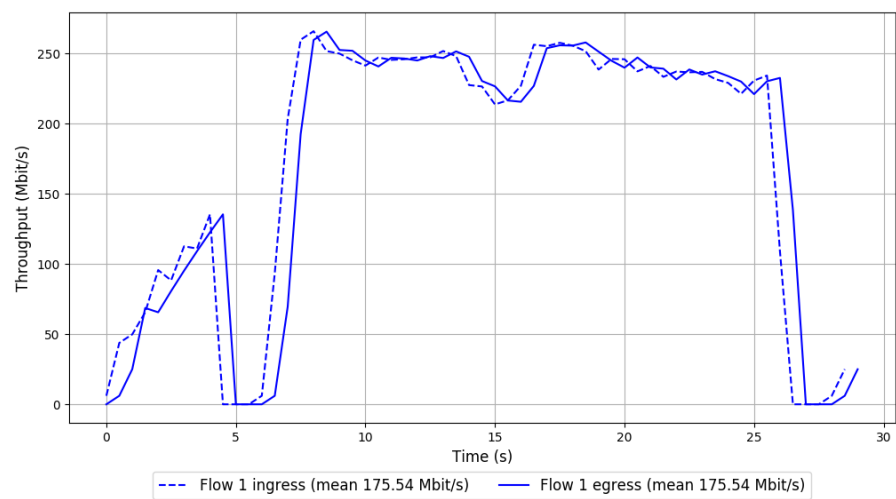
-- Flow 1:

Average throughput: 175.54 Mbit/s

95th percentile per-packet one-way delay: 67.123 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-08-11 16:28:47

End at: 2018-08-11 16:29:17

Local clock offset: -0.674 ms

Remote clock offset: 0.295 ms

Below is generated by plot.py at 2018-08-11 20:22:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 124.60 Mbit/s

95th percentile per-packet one-way delay: 66.180 ms

Loss rate: 0.00%

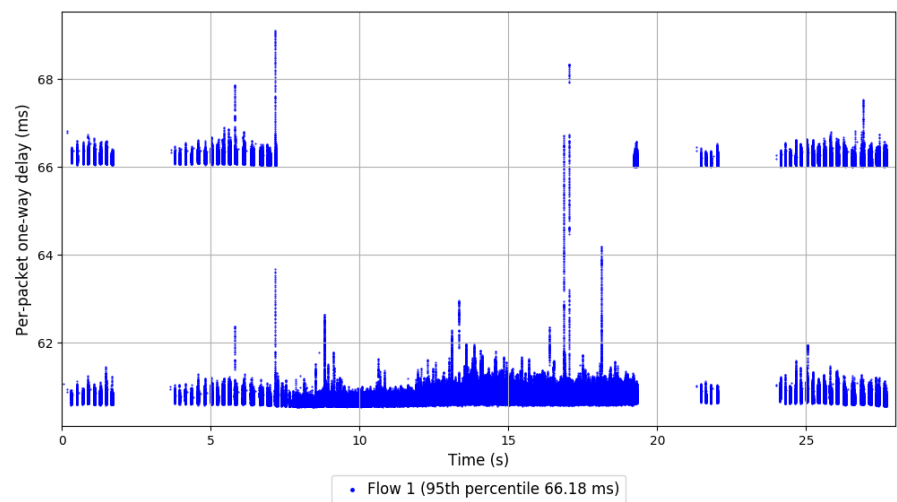
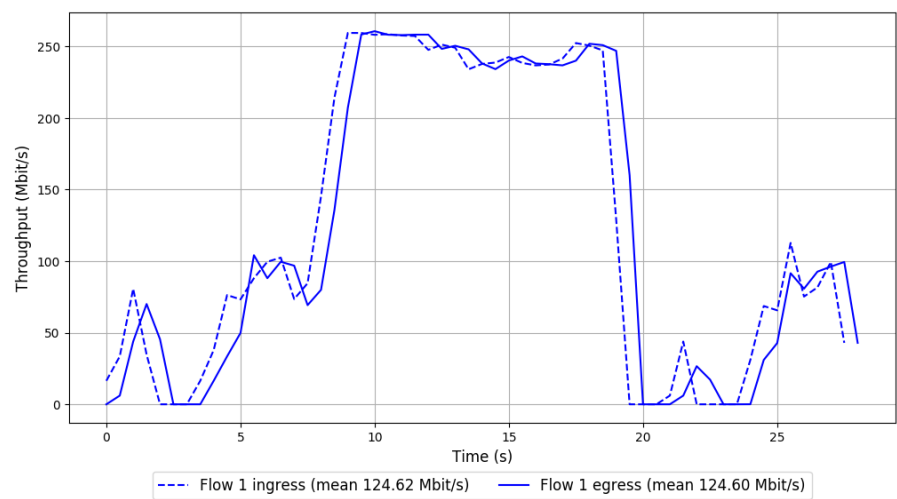
-- Flow 1:

Average throughput: 124.60 Mbit/s

95th percentile per-packet one-way delay: 66.180 ms

Loss rate: 0.00%

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

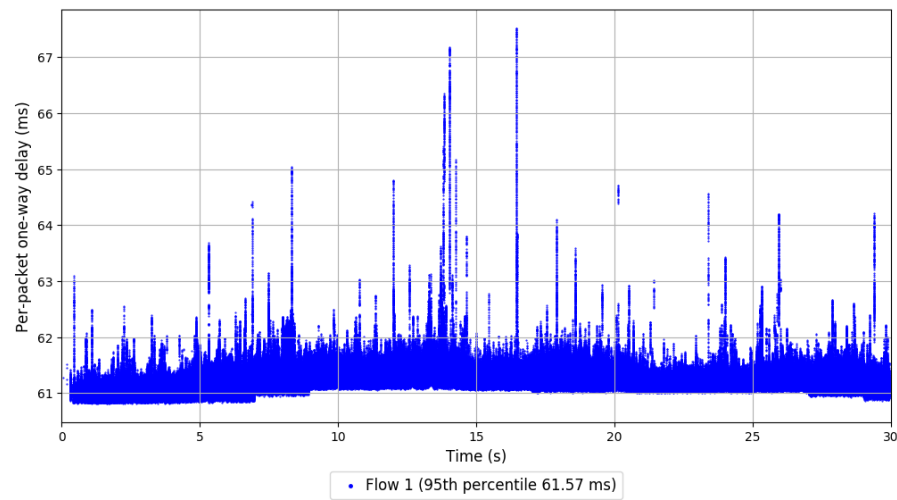
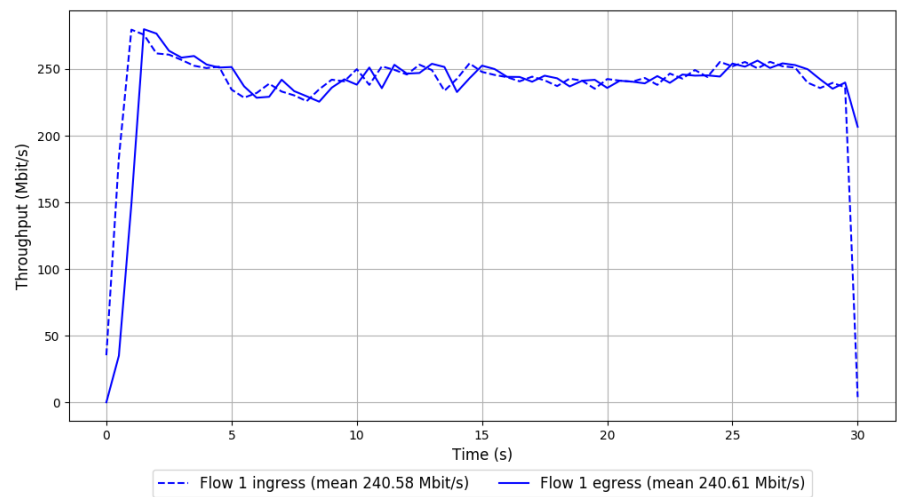


Run 7: Statistics of TaoVA-100x

Start at: 2018-08-11 16:51:28
End at: 2018-08-11 16:51:58
Local clock offset: -0.729 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2018-08-11 20:27:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 240.61 Mbit/s
95th percentile per-packet one-way delay: 61.568 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 240.61 Mbit/s
95th percentile per-packet one-way delay: 61.568 ms
Loss rate: 0.44%

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

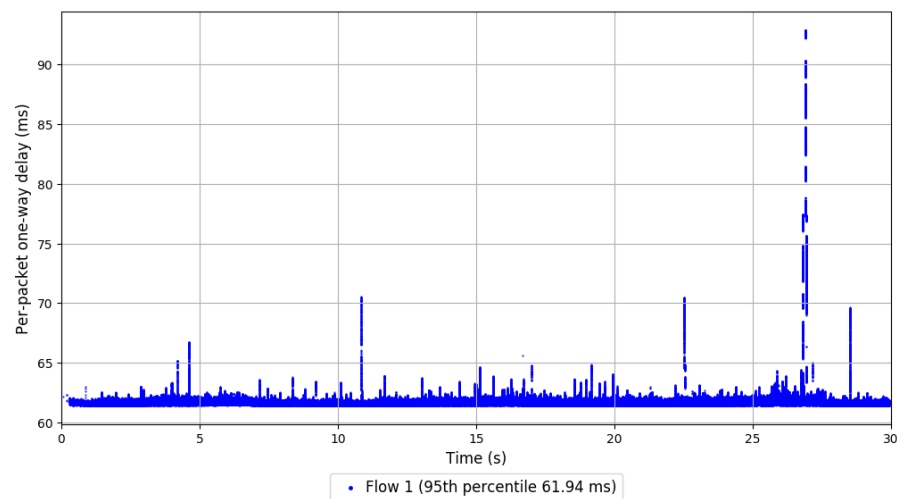
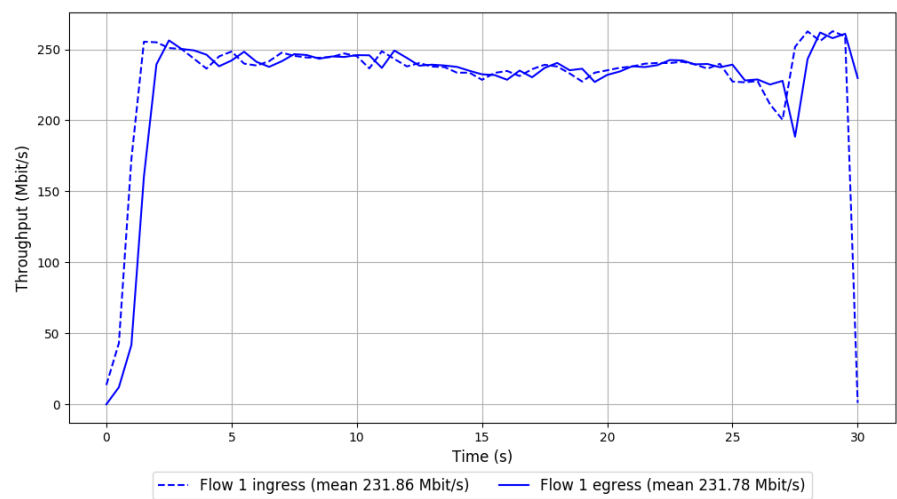


Run 8: Statistics of TaoVA-100x

Start at: 2018-08-11 17:14:35
End at: 2018-08-11 17:15:05
Local clock offset: 0.181 ms
Remote clock offset: -0.626 ms

Below is generated by plot.py at 2018-08-11 20:27:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 231.78 Mbit/s
95th percentile per-packet one-way delay: 61.936 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 231.78 Mbit/s
95th percentile per-packet one-way delay: 61.936 ms
Loss rate: 0.45%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-08-11 17:37:35

End at: 2018-08-11 17:38:05

Local clock offset: 0.474 ms

Remote clock offset: 1.308 ms

Below is generated by plot.py at 2018-08-11 20:27:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.46 Mbit/s

95th percentile per-packet one-way delay: 60.100 ms

Loss rate: 0.44%

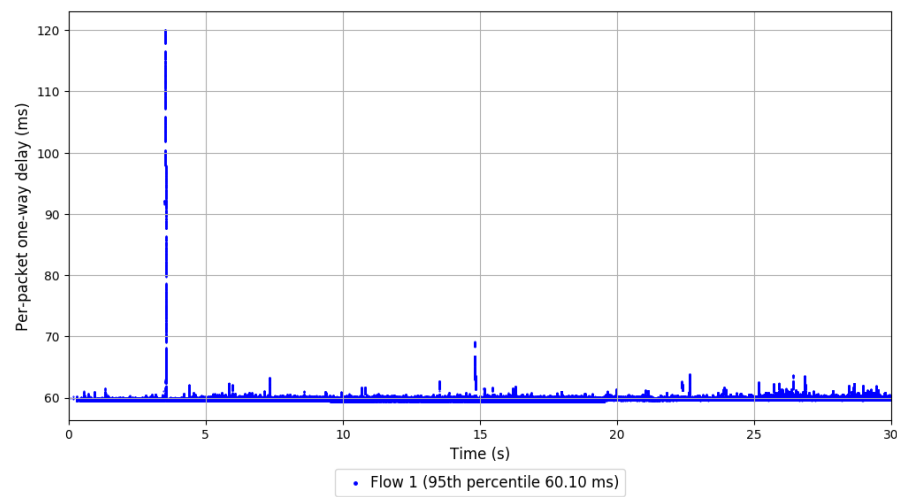
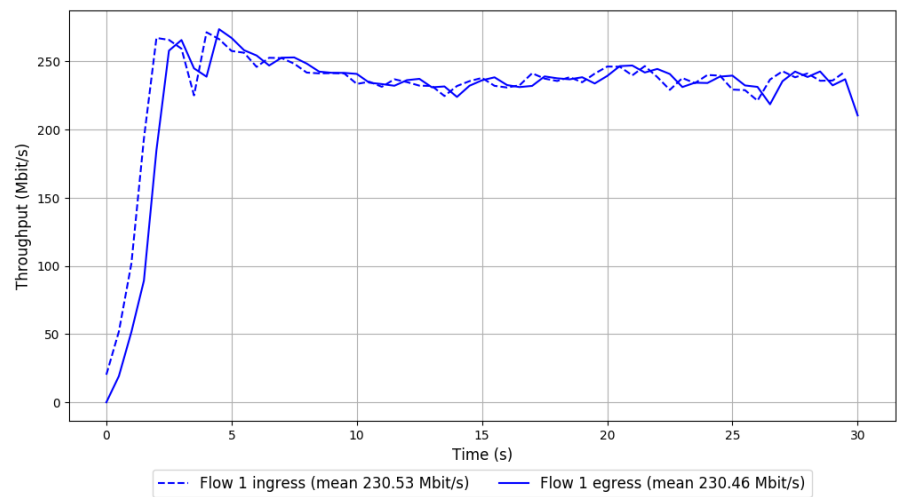
-- Flow 1:

Average throughput: 230.46 Mbit/s

95th percentile per-packet one-way delay: 60.100 ms

Loss rate: 0.44%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-08-11 18:00:38

End at: 2018-08-11 18:01:08

Local clock offset: 0.706 ms

Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-08-11 20:28:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.77 Mbit/s

95th percentile per-packet one-way delay: 61.354 ms

Loss rate: 0.44%

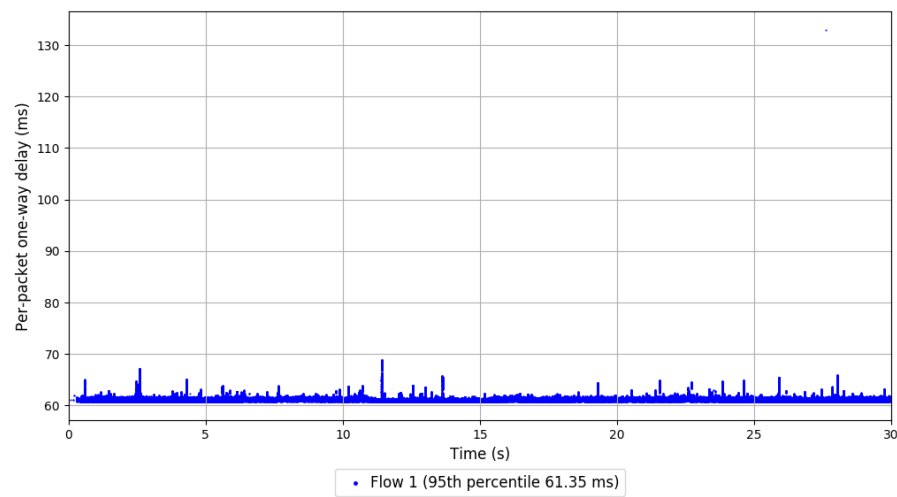
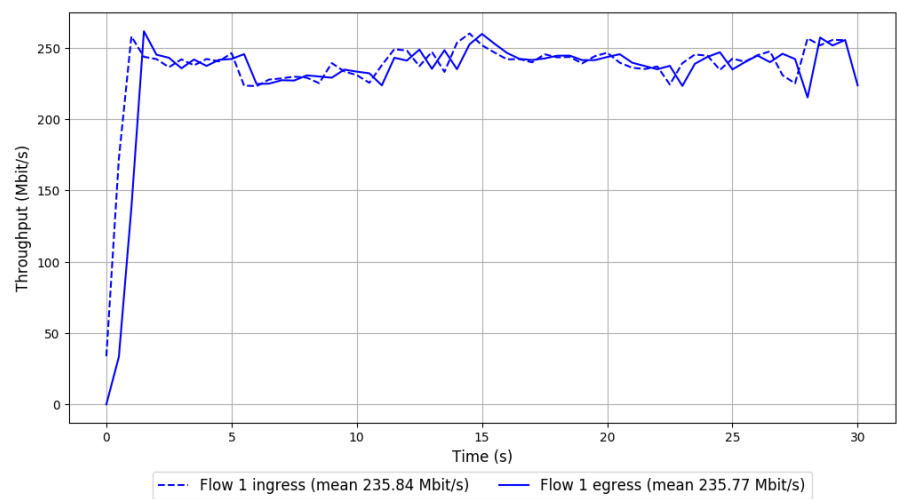
-- Flow 1:

Average throughput: 235.77 Mbit/s

95th percentile per-packet one-way delay: 61.354 ms

Loss rate: 0.44%

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

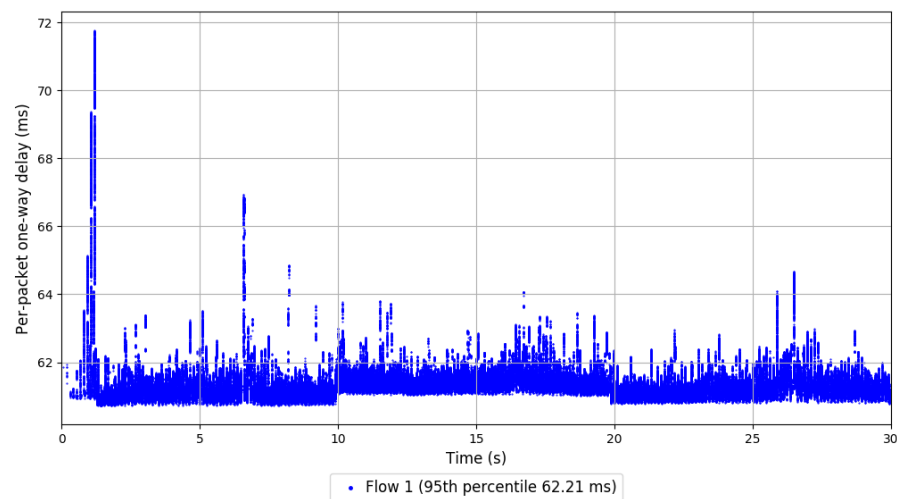
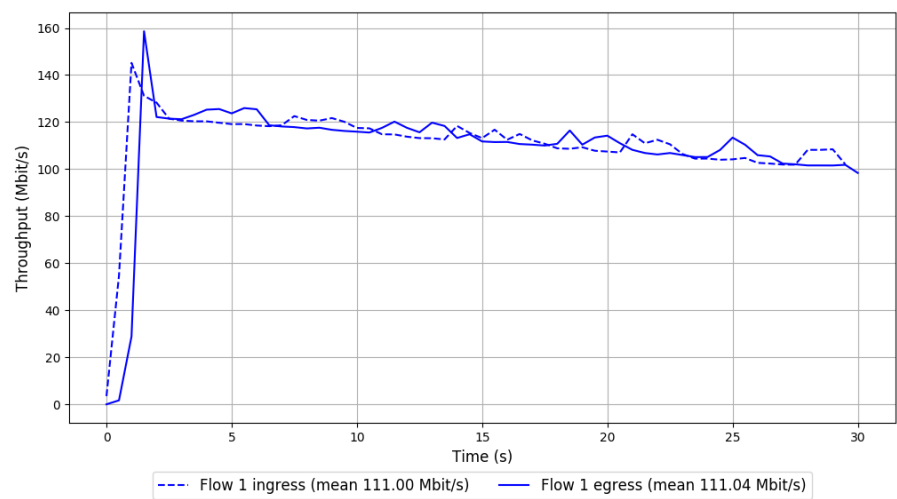


Run 1: Statistics of TCP Vegas

Start at: 2018-08-11 14:49:45
End at: 2018-08-11 14:50:15
Local clock offset: -0.449 ms
Remote clock offset: -0.092 ms

Below is generated by plot.py at 2018-08-11 20:28:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 111.04 Mbit/s
95th percentile per-packet one-way delay: 62.208 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 111.04 Mbit/s
95th percentile per-packet one-way delay: 62.208 ms
Loss rate: 0.38%

Run 1: Report of TCP Vegas — Data Link

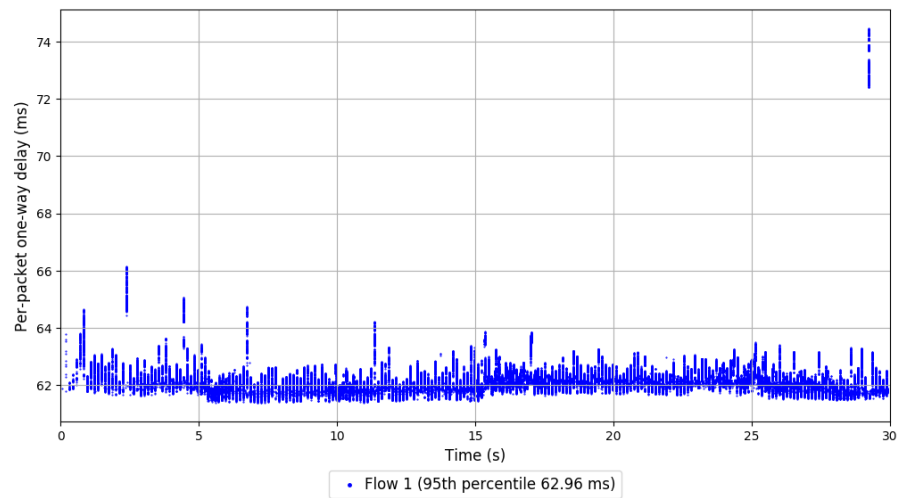
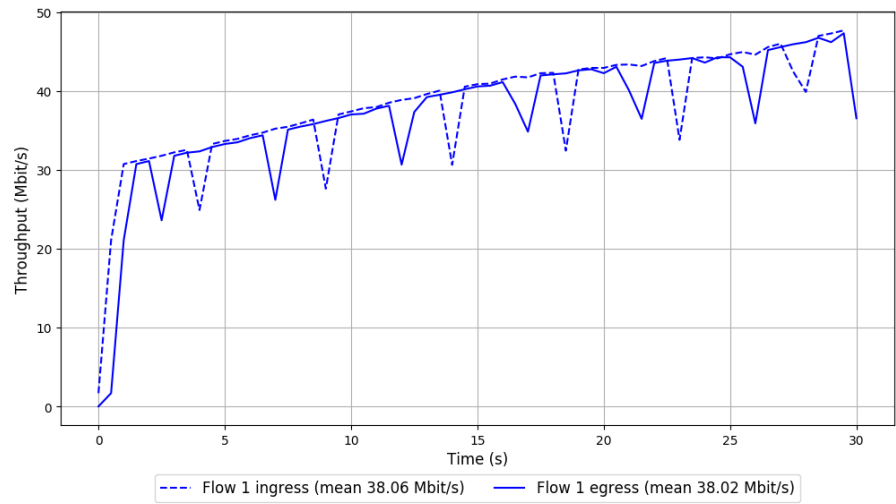


Run 2: Statistics of TCP Vegas

Start at: 2018-08-11 15:12:29
End at: 2018-08-11 15:12:59
Local clock offset: -0.455 ms
Remote clock offset: -0.502 ms

Below is generated by plot.py at 2018-08-11 20:28:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 38.02 Mbit/s
95th percentile per-packet one-way delay: 62.964 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 38.02 Mbit/s
95th percentile per-packet one-way delay: 62.964 ms
Loss rate: 0.52%

Run 2: Report of TCP Vegas — Data Link

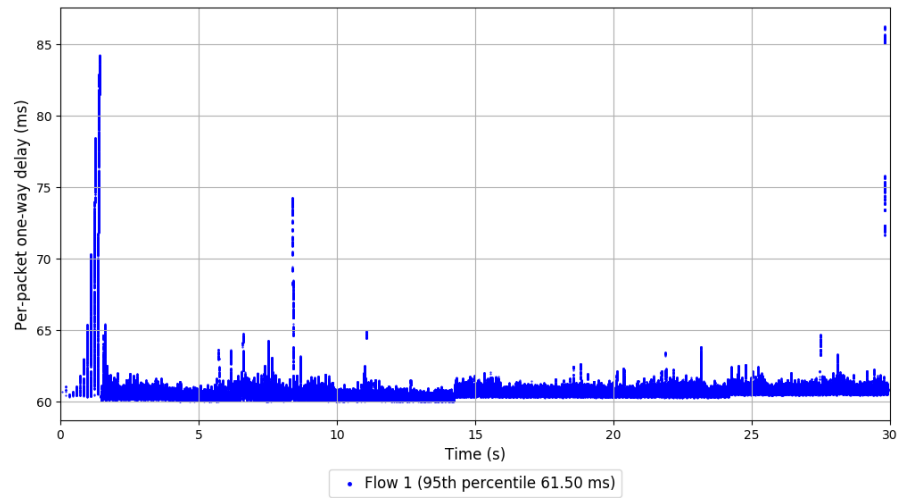
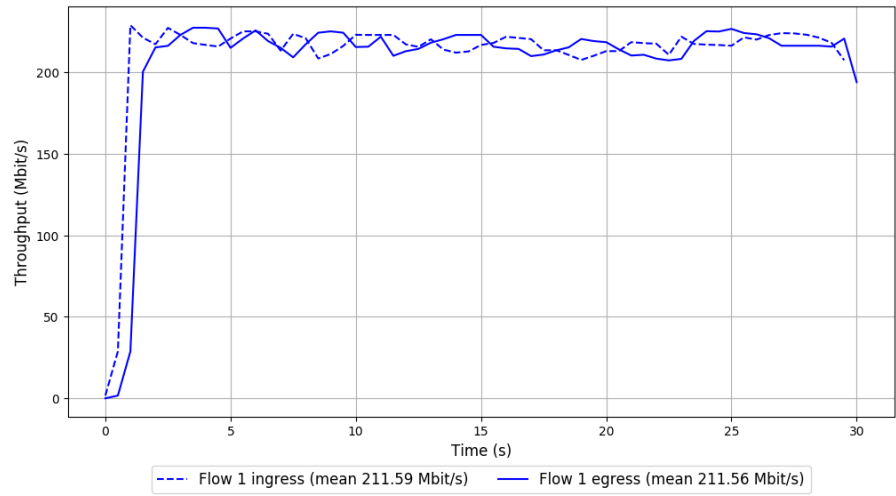


Run 3: Statistics of TCP Vegas

Start at: 2018-08-11 15:35:20
End at: 2018-08-11 15:35:50
Local clock offset: -0.523 ms
Remote clock offset: 0.575 ms

Below is generated by plot.py at 2018-08-11 20:28:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 211.56 Mbit/s
95th percentile per-packet one-way delay: 61.501 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 211.56 Mbit/s
95th percentile per-packet one-way delay: 61.501 ms
Loss rate: 0.42%

Run 3: Report of TCP Vegas — Data Link

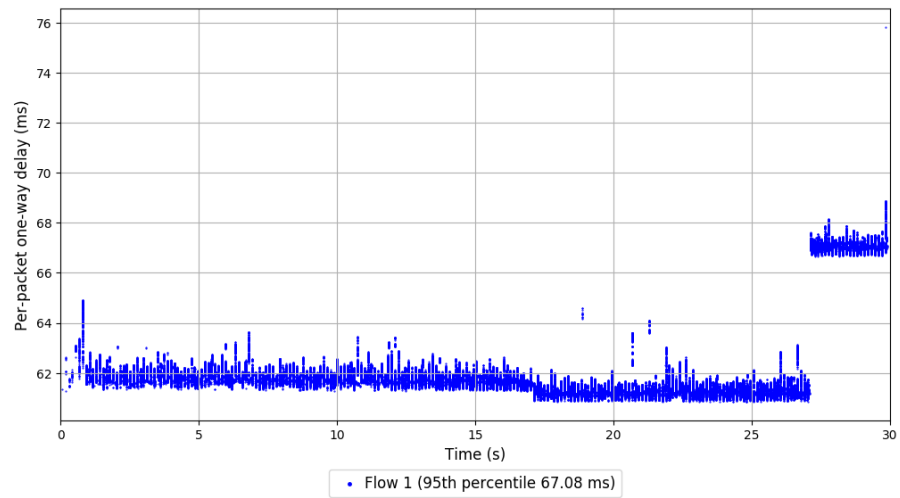
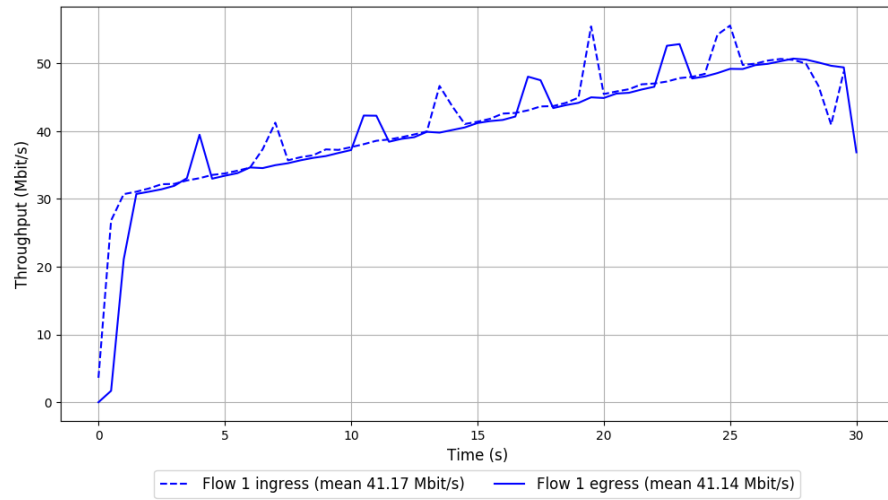


Run 4: Statistics of TCP Vegas

Start at: 2018-08-11 15:58:07
End at: 2018-08-11 15:58:38
Local clock offset: -0.598 ms
Remote clock offset: -0.303 ms

Below is generated by plot.py at 2018-08-11 20:28:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 41.14 Mbit/s
95th percentile per-packet one-way delay: 67.080 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 41.14 Mbit/s
95th percentile per-packet one-way delay: 67.080 ms
Loss rate: 0.49%

Run 4: Report of TCP Vegas — Data Link

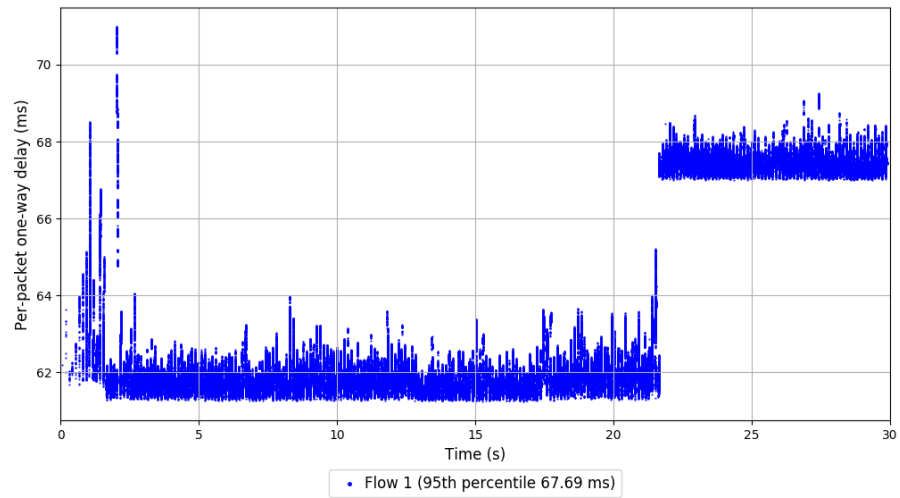
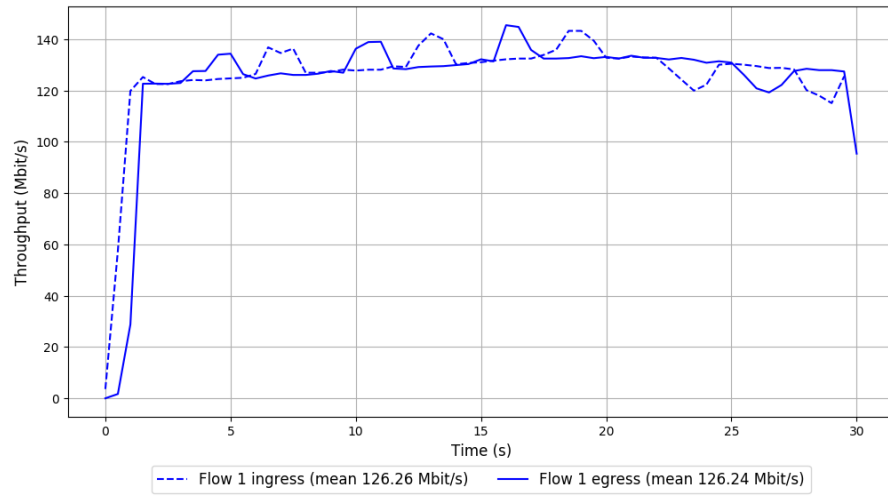


Run 5: Statistics of TCP Vegas

Start at: 2018-08-11 16:20:23
End at: 2018-08-11 16:20:53
Local clock offset: -0.647 ms
Remote clock offset: -0.689 ms

Below is generated by plot.py at 2018-08-11 20:28:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 126.24 Mbit/s
95th percentile per-packet one-way delay: 67.687 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 126.24 Mbit/s
95th percentile per-packet one-way delay: 67.687 ms
Loss rate: 0.42%

Run 5: Report of TCP Vegas — Data Link

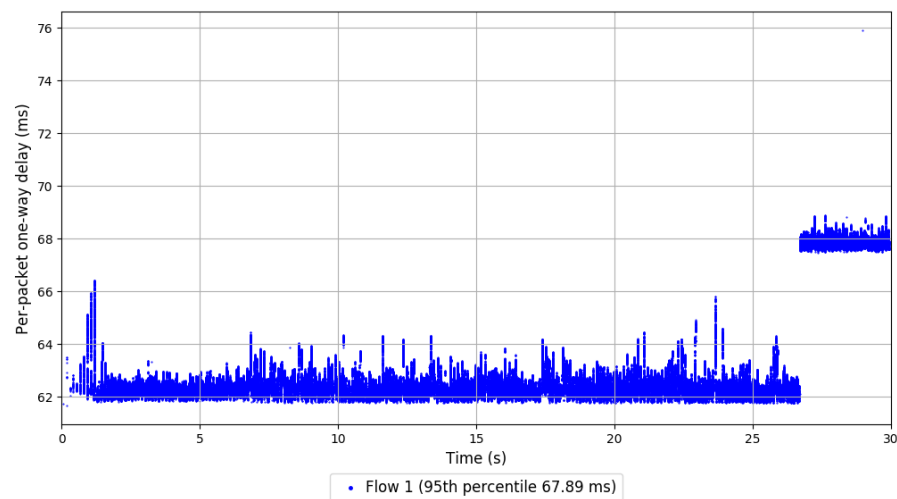
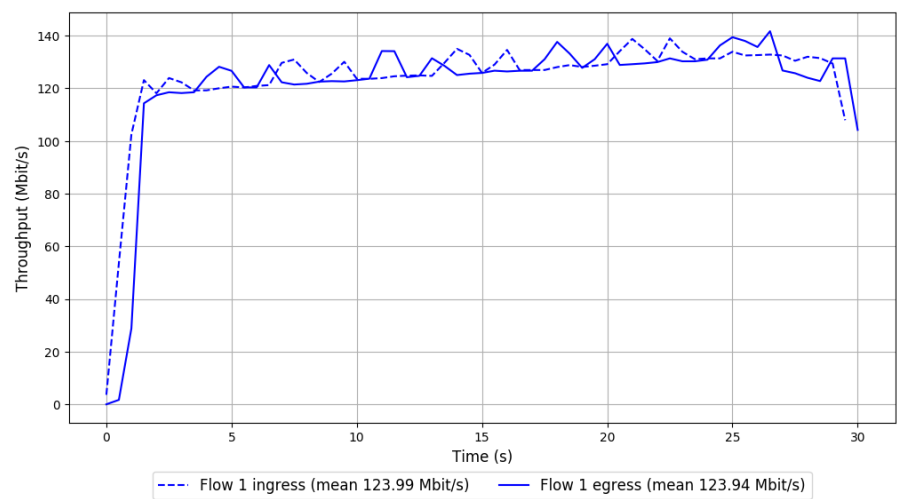


Run 6: Statistics of TCP Vegas

Start at: 2018-08-11 16:42:58
End at: 2018-08-11 16:43:28
Local clock offset: -0.688 ms
Remote clock offset: -0.815 ms

Below is generated by plot.py at 2018-08-11 20:28:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 123.94 Mbit/s
95th percentile per-packet one-way delay: 67.889 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 123.94 Mbit/s
95th percentile per-packet one-way delay: 67.889 ms
Loss rate: 0.44%

Run 6: Report of TCP Vegas — Data Link

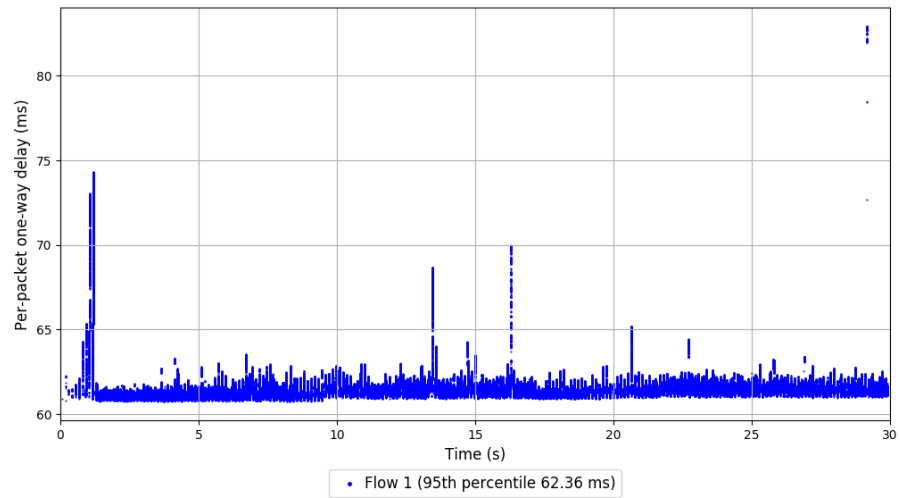
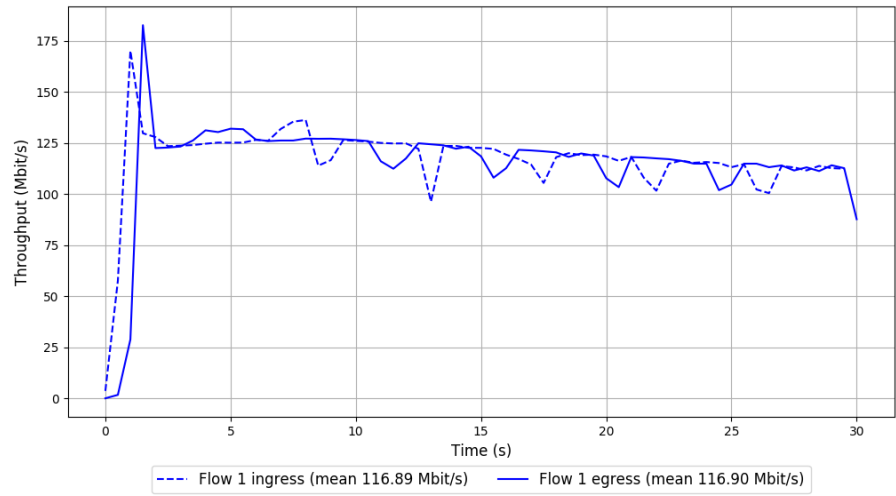


Run 7: Statistics of TCP Vegas

Start at: 2018-08-11 17:06:05
End at: 2018-08-11 17:06:35
Local clock offset: 0.012 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-08-11 20:28:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 116.90 Mbit/s
95th percentile per-packet one-way delay: 62.359 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 116.90 Mbit/s
95th percentile per-packet one-way delay: 62.359 ms
Loss rate: 0.40%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-08-11 17:29:12

End at: 2018-08-11 17:29:42

Local clock offset: 0.391 ms

Remote clock offset: 1.109 ms

Below is generated by plot.py at 2018-08-11 20:28:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 126.57 Mbit/s

95th percentile per-packet one-way delay: 61.181 ms

Loss rate: 0.42%

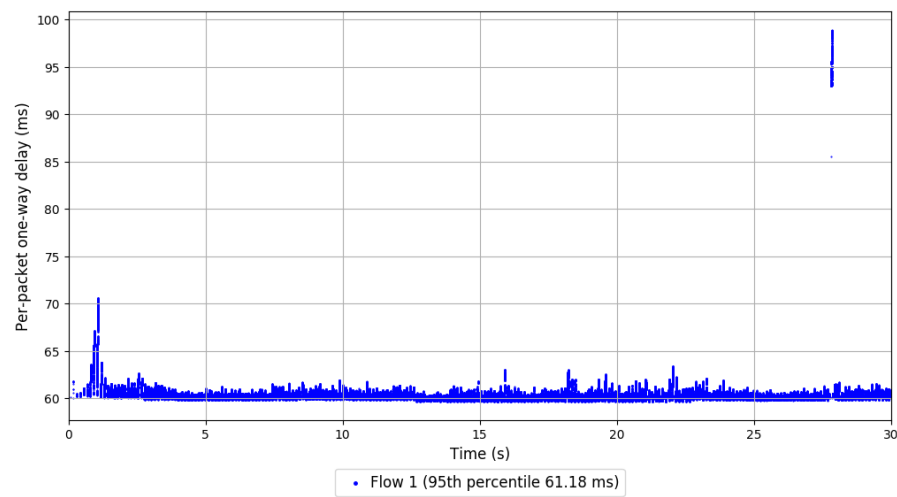
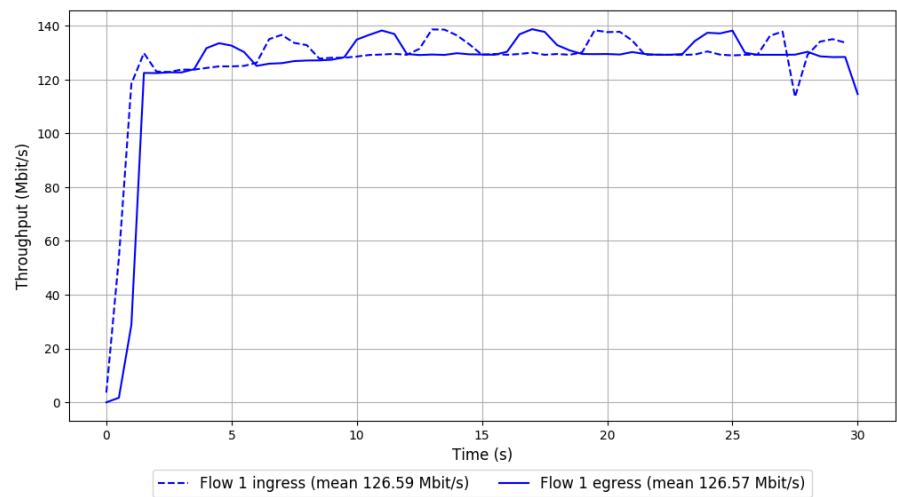
-- Flow 1:

Average throughput: 126.57 Mbit/s

95th percentile per-packet one-way delay: 61.181 ms

Loss rate: 0.42%

Run 8: Report of TCP Vegas — Data Link

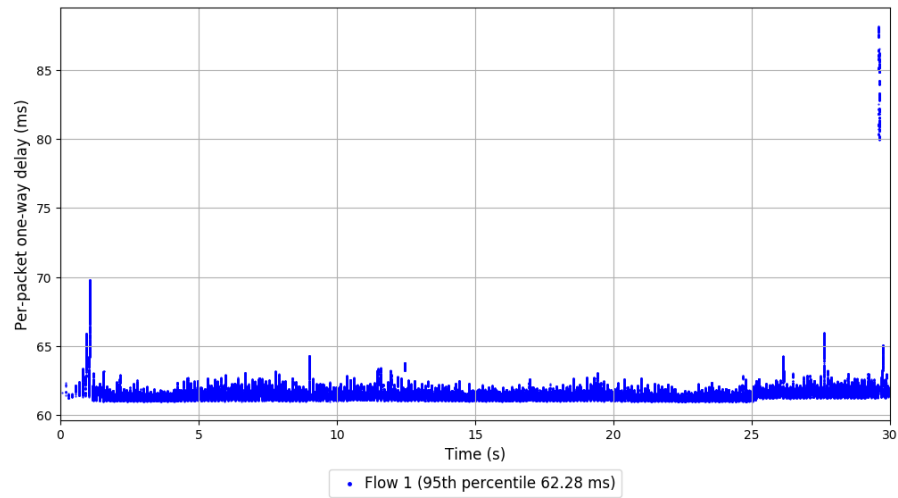
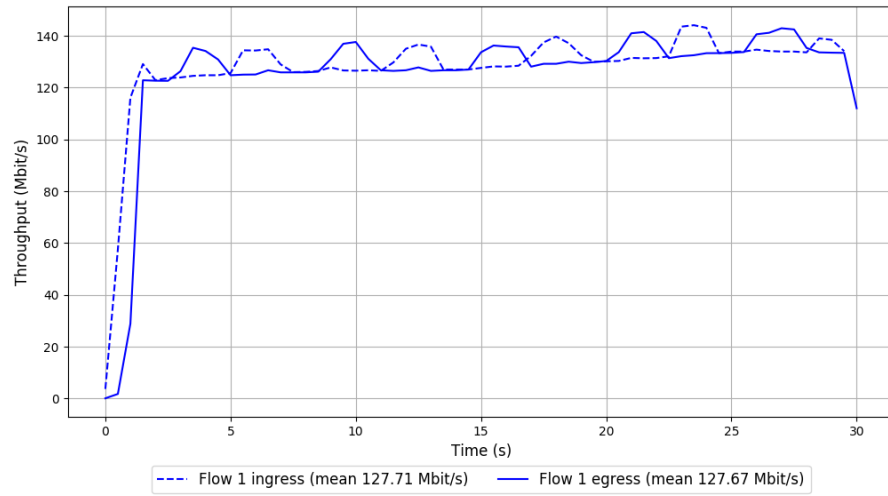


Run 9: Statistics of TCP Vegas

Start at: 2018-08-11 17:52:09
End at: 2018-08-11 17:52:40
Local clock offset: 0.627 ms
Remote clock offset: -0.316 ms

Below is generated by plot.py at 2018-08-11 20:28:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 127.67 Mbit/s
95th percentile per-packet one-way delay: 62.278 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 127.67 Mbit/s
95th percentile per-packet one-way delay: 62.278 ms
Loss rate: 0.44%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-08-11 18:15:03

End at: 2018-08-11 18:15:33

Local clock offset: 0.798 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-08-11 20:28:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.04 Mbit/s

95th percentile per-packet one-way delay: 62.677 ms

Loss rate: 0.42%

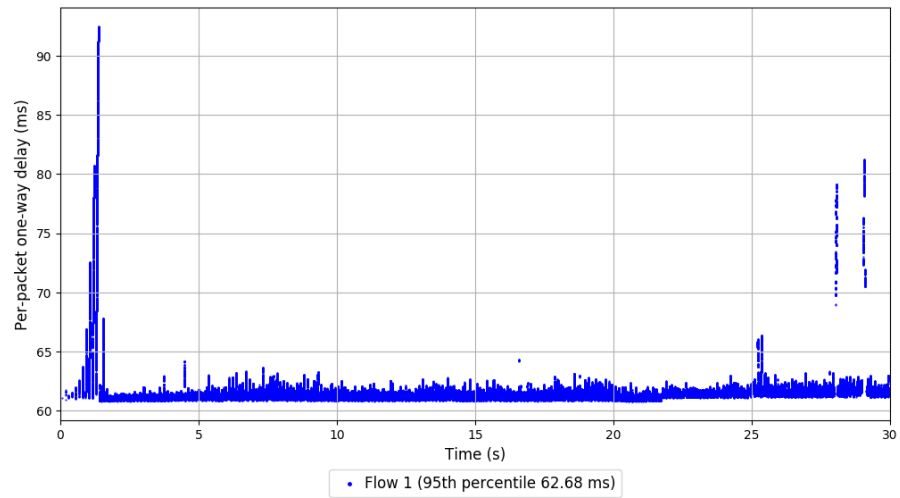
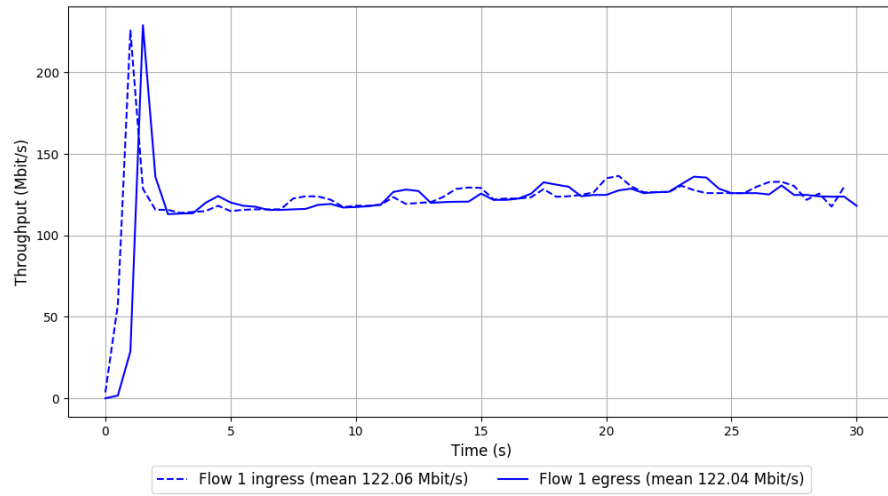
-- Flow 1:

Average throughput: 122.04 Mbit/s

95th percentile per-packet one-way delay: 62.677 ms

Loss rate: 0.42%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-08-11 14:44:48

End at: 2018-08-11 14:45:18

Local clock offset: -0.426 ms

Remote clock offset: 1.417 ms

Below is generated by plot.py at 2018-08-11 20:30:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 243.77 Mbit/s

95th percentile per-packet one-way delay: 107.322 ms

Loss rate: 0.56%

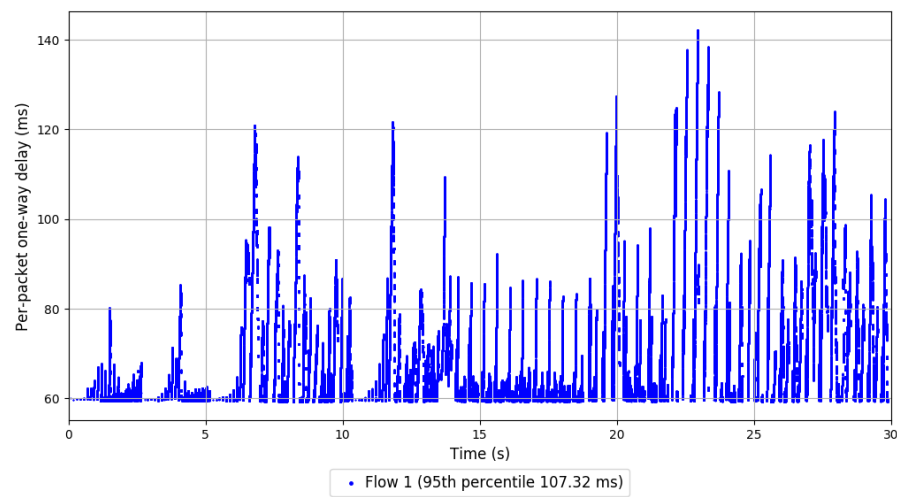
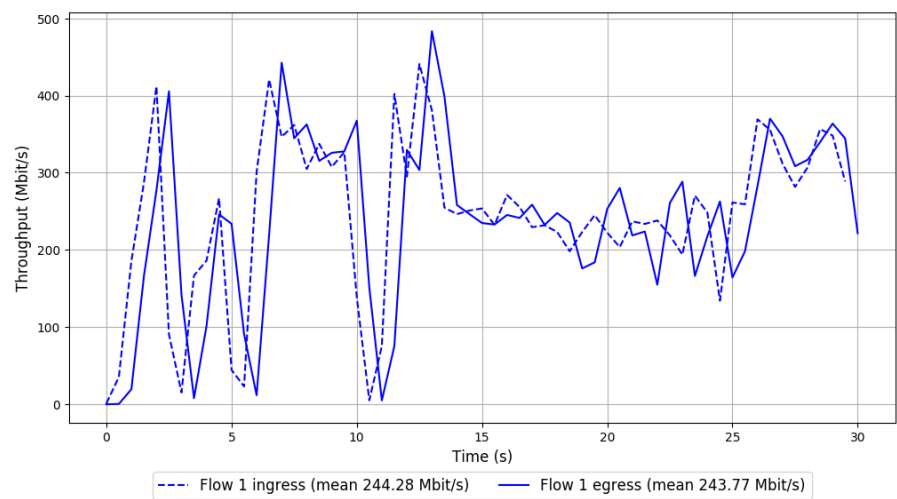
-- Flow 1:

Average throughput: 243.77 Mbit/s

95th percentile per-packet one-way delay: 107.322 ms

Loss rate: 0.56%

Run 1: Report of Verus — Data Link

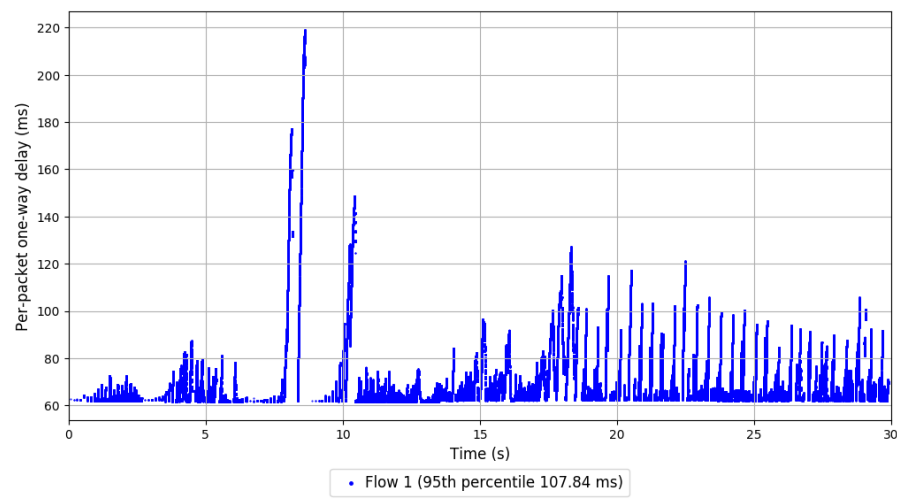
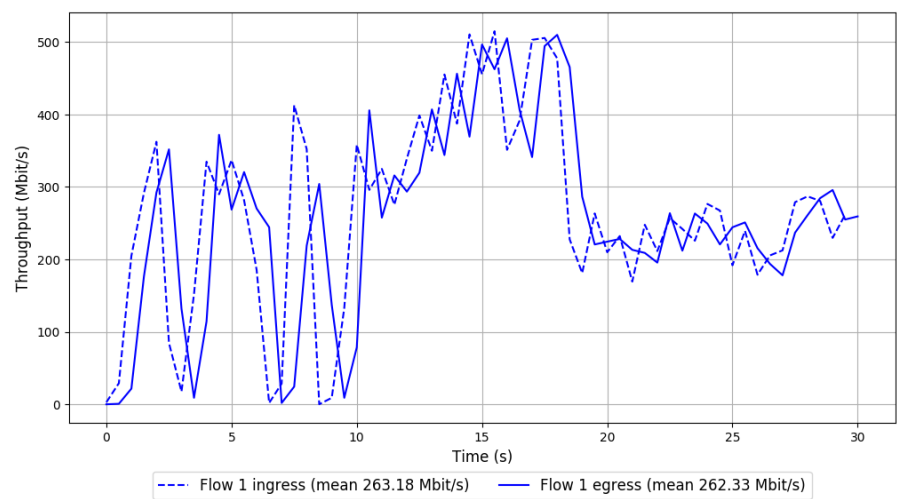


Run 2: Statistics of Verus

Start at: 2018-08-11 15:07:31
End at: 2018-08-11 15:08:01
Local clock offset: -0.432 ms
Remote clock offset: -0.836 ms

Below is generated by plot.py at 2018-08-11 20:31:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 262.33 Mbit/s
95th percentile per-packet one-way delay: 107.843 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 262.33 Mbit/s
95th percentile per-packet one-way delay: 107.843 ms
Loss rate: 0.78%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-08-11 15:30:21

End at: 2018-08-11 15:30:51

Local clock offset: -0.537 ms

Remote clock offset: 0.409 ms

Below is generated by plot.py at 2018-08-11 20:32:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 266.29 Mbit/s

95th percentile per-packet one-way delay: 94.211 ms

Loss rate: 0.92%

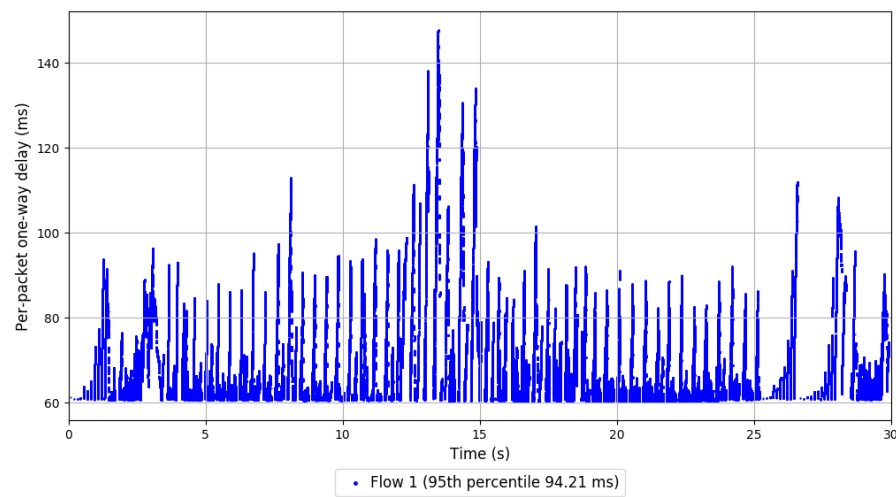
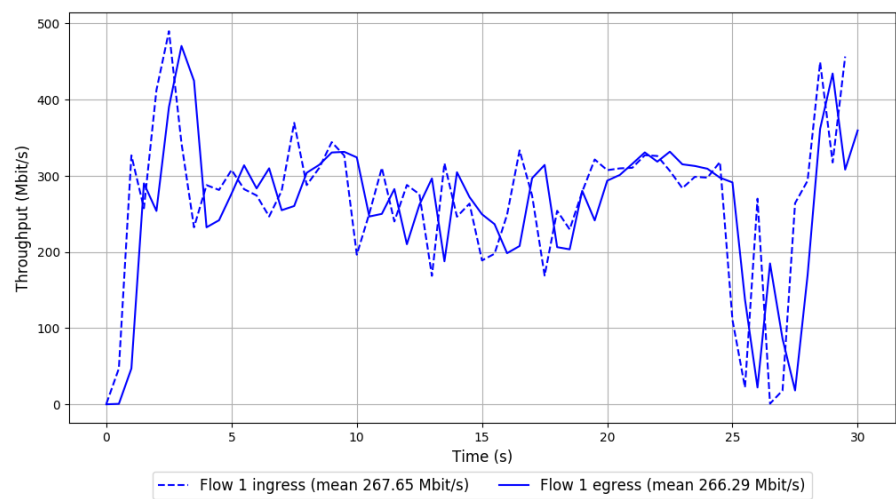
-- Flow 1:

Average throughput: 266.29 Mbit/s

95th percentile per-packet one-way delay: 94.211 ms

Loss rate: 0.92%

Run 3: Report of Verus — Data Link

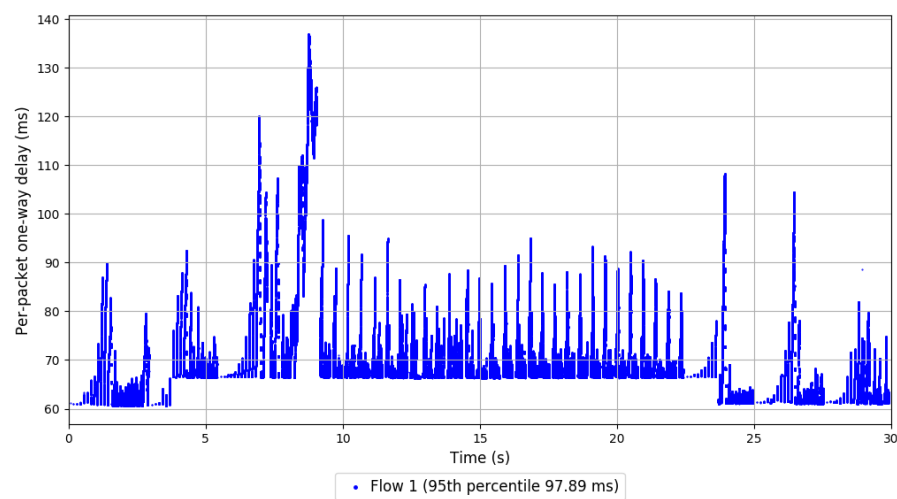
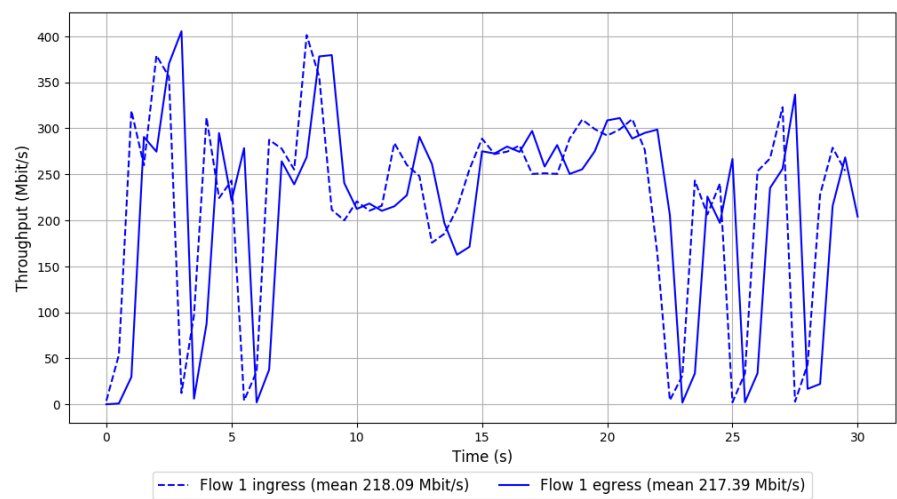


Run 4: Statistics of Verus

Start at: 2018-08-11 15:53:21
End at: 2018-08-11 15:53:51
Local clock offset: -0.583 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2018-08-11 20:32:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 217.39 Mbit/s
95th percentile per-packet one-way delay: 97.891 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 217.39 Mbit/s
95th percentile per-packet one-way delay: 97.891 ms
Loss rate: 0.73%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-08-11 16:15:31

End at: 2018-08-11 16:16:01

Local clock offset: -0.607 ms

Remote clock offset: 1.168 ms

Below is generated by plot.py at 2018-08-11 20:32:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.53 Mbit/s

95th percentile per-packet one-way delay: 171.072 ms

Loss rate: 3.91%

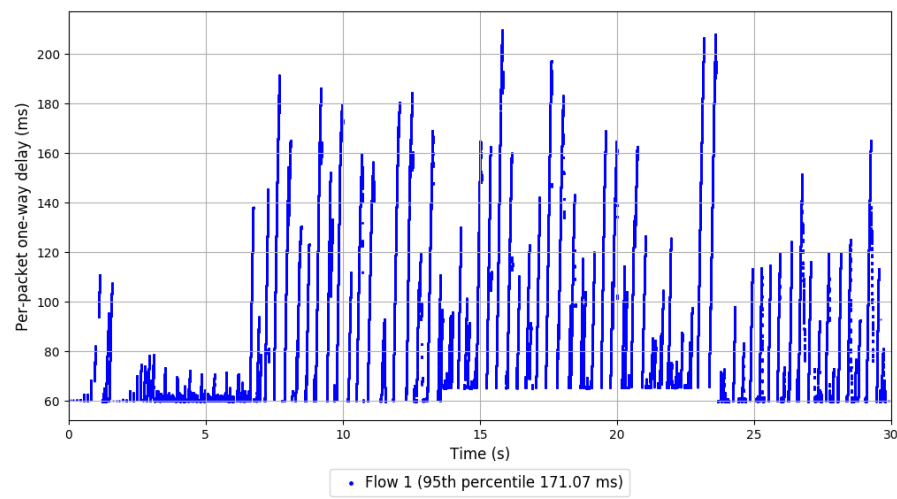
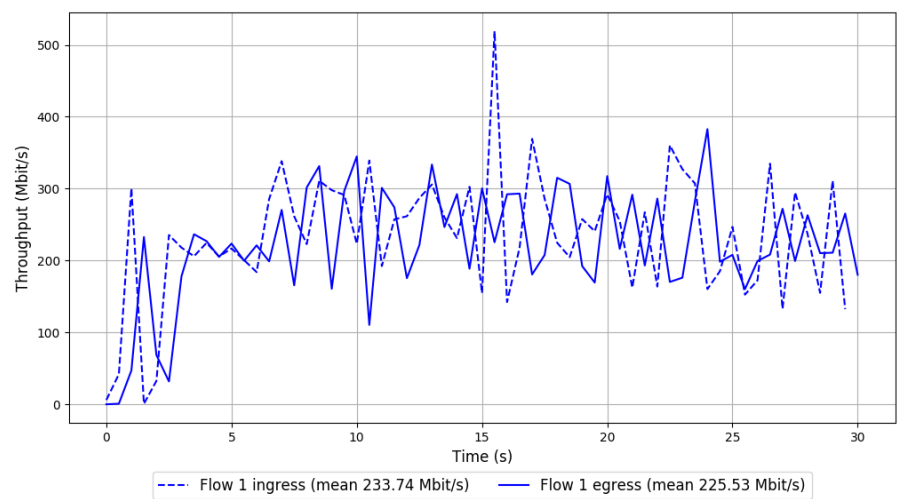
-- Flow 1:

Average throughput: 225.53 Mbit/s

95th percentile per-packet one-way delay: 171.072 ms

Loss rate: 3.91%

Run 5: Report of Verus — Data Link

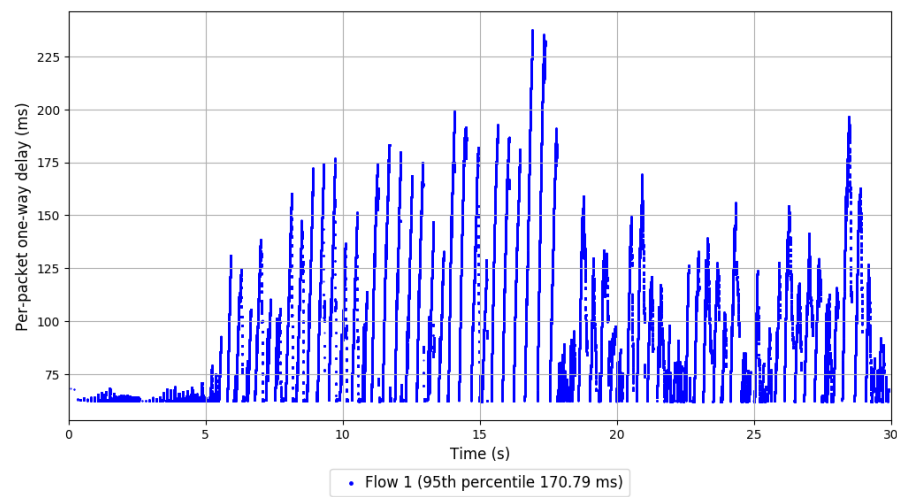
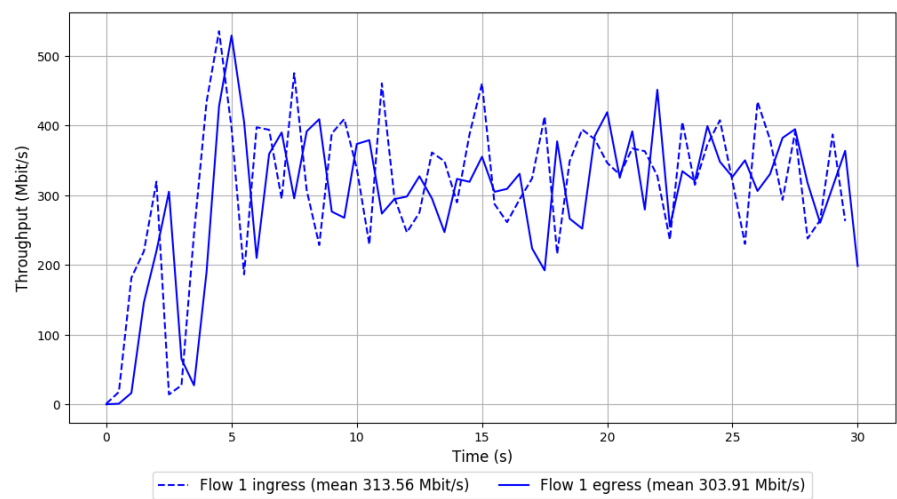


Run 6: Statistics of Verus

Start at: 2018-08-11 16:37:54
End at: 2018-08-11 16:38:24
Local clock offset: -0.712 ms
Remote clock offset: -1.306 ms

Below is generated by plot.py at 2018-08-11 20:33:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 303.91 Mbit/s
95th percentile per-packet one-way delay: 170.786 ms
Loss rate: 3.36%
-- Flow 1:
Average throughput: 303.91 Mbit/s
95th percentile per-packet one-way delay: 170.786 ms
Loss rate: 3.36%

Run 6: Report of Verus — Data Link

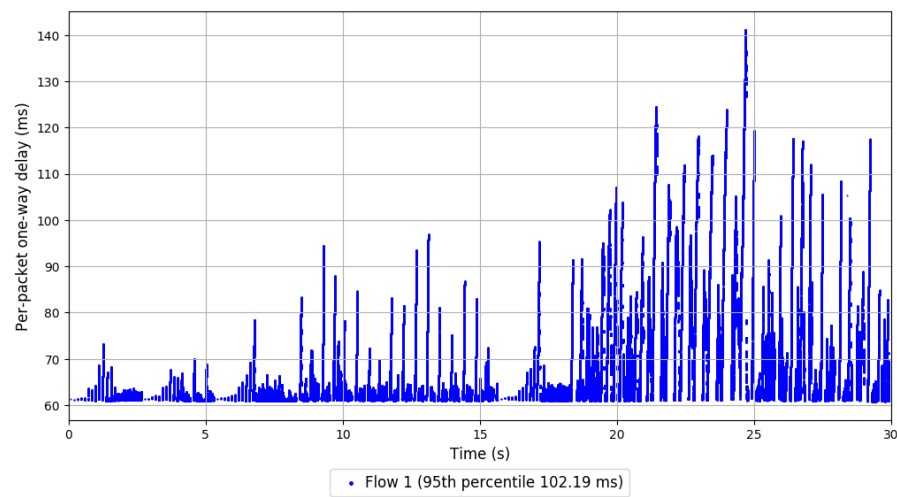
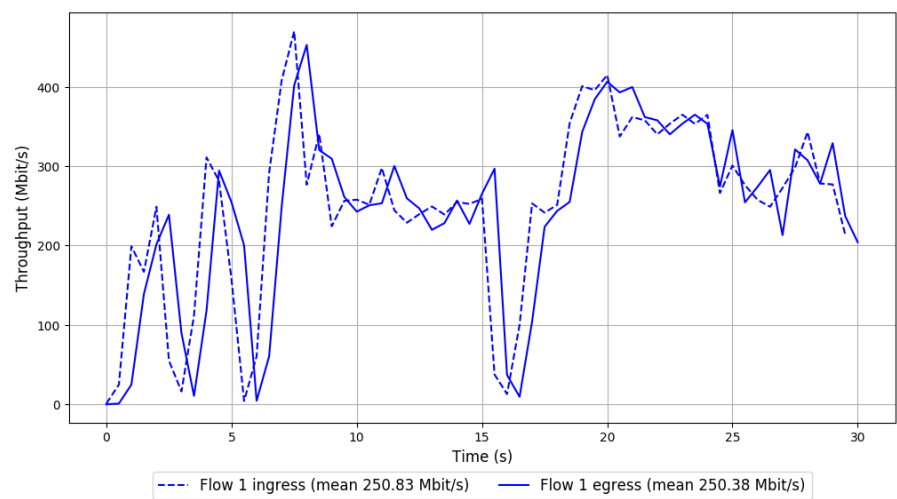


Run 7: Statistics of Verus

Start at: 2018-08-11 17:01:06
End at: 2018-08-11 17:01:36
Local clock offset: -0.232 ms
Remote clock offset: -0.067 ms

Below is generated by plot.py at 2018-08-11 20:33:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 250.38 Mbit/s
95th percentile per-packet one-way delay: 102.186 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 250.38 Mbit/s
95th percentile per-packet one-way delay: 102.186 ms
Loss rate: 0.43%

Run 7: Report of Verus — Data Link

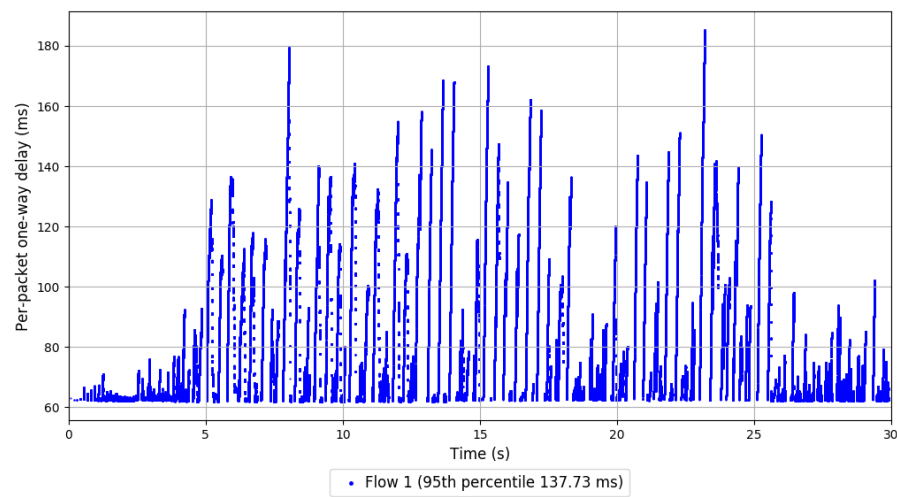
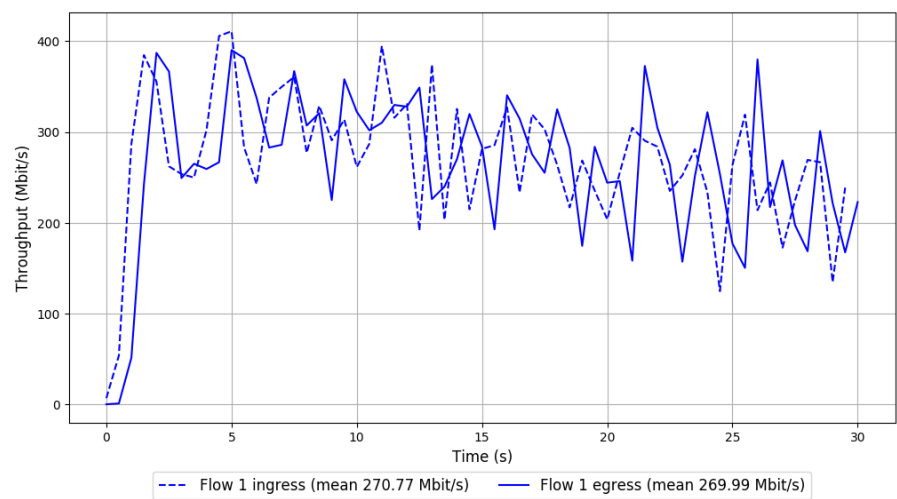


Run 8: Statistics of Verus

Start at: 2018-08-11 17:24:11
End at: 2018-08-11 17:24:41
Local clock offset: 0.353 ms
Remote clock offset: -0.927 ms

Below is generated by plot.py at 2018-08-11 20:33:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 269.99 Mbit/s
95th percentile per-packet one-way delay: 137.729 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 269.99 Mbit/s
95th percentile per-packet one-way delay: 137.729 ms
Loss rate: 0.54%

Run 8: Report of Verus — Data Link

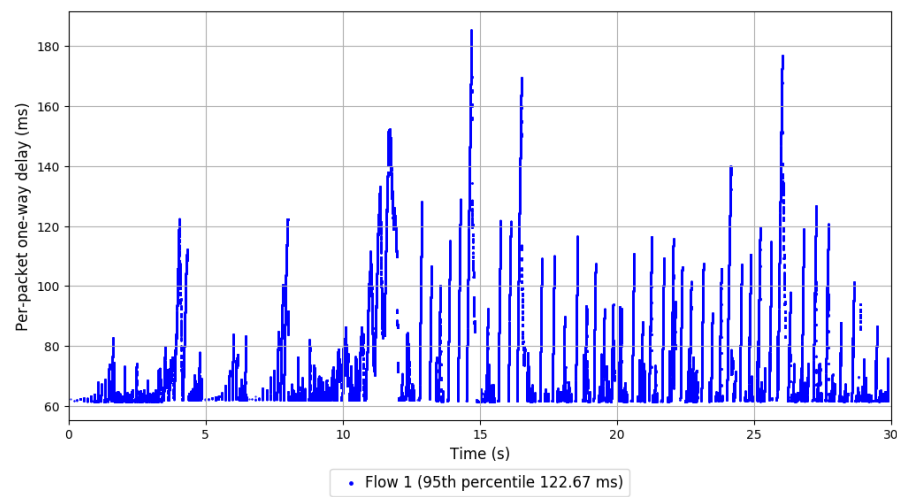
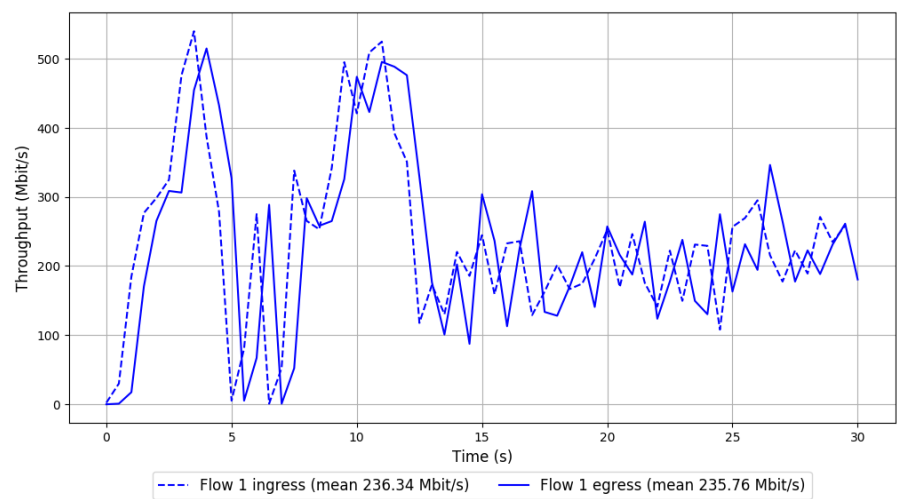


Run 9: Statistics of Verus

Start at: 2018-08-11 17:47:11
End at: 2018-08-11 17:47:41
Local clock offset: 0.573 ms
Remote clock offset: -0.759 ms

Below is generated by plot.py at 2018-08-11 20:34:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 235.76 Mbit/s
95th percentile per-packet one-way delay: 122.670 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 235.76 Mbit/s
95th percentile per-packet one-way delay: 122.670 ms
Loss rate: 0.65%

Run 9: Report of Verus — Data Link

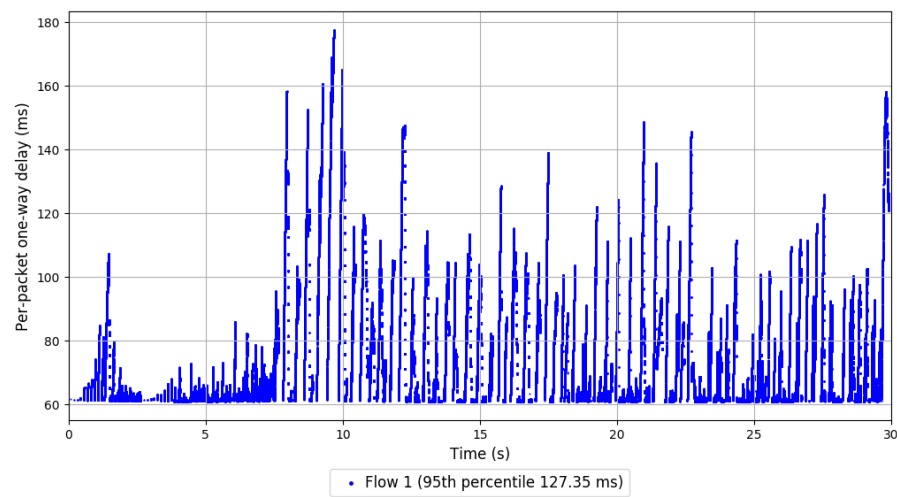
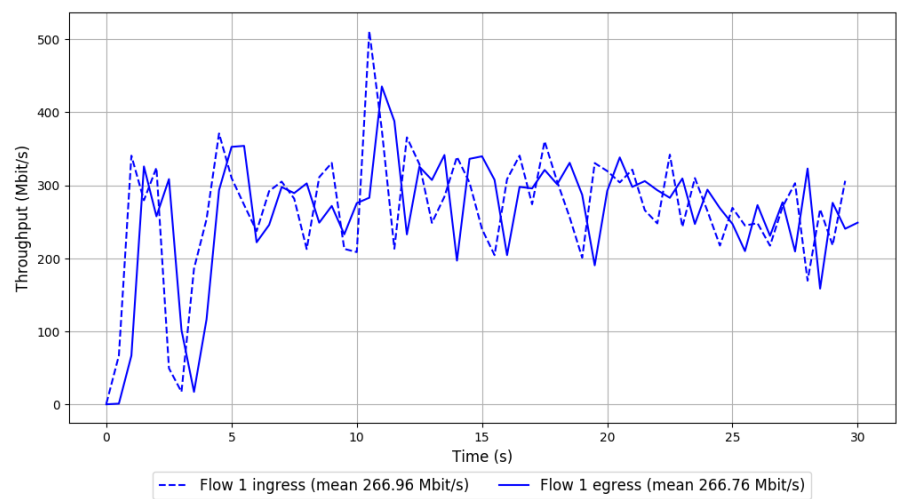


Run 10: Statistics of Verus

Start at: 2018-08-11 18:10:01
End at: 2018-08-11 18:10:31
Local clock offset: 0.747 ms
Remote clock offset: -0.132 ms

Below is generated by plot.py at 2018-08-11 20:35:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 266.76 Mbit/s
95th percentile per-packet one-way delay: 127.349 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 266.76 Mbit/s
95th percentile per-packet one-way delay: 127.349 ms
Loss rate: 0.49%

Run 10: Report of Verus — Data Link

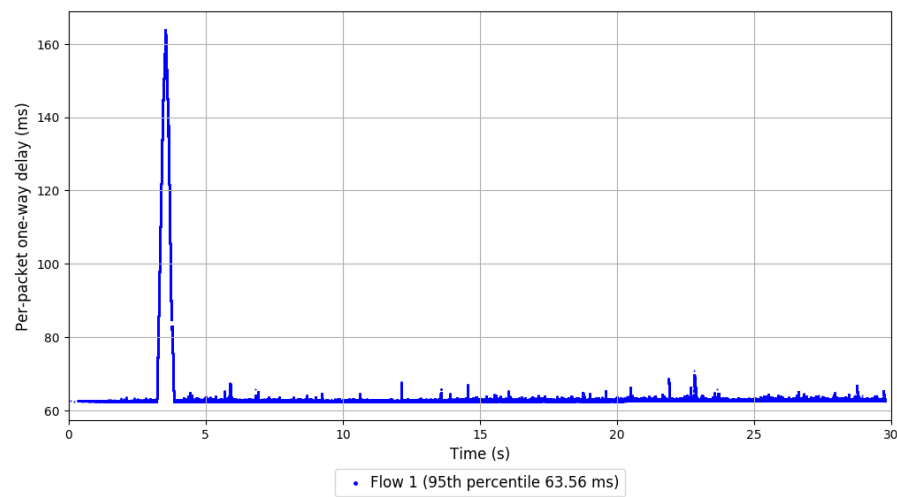
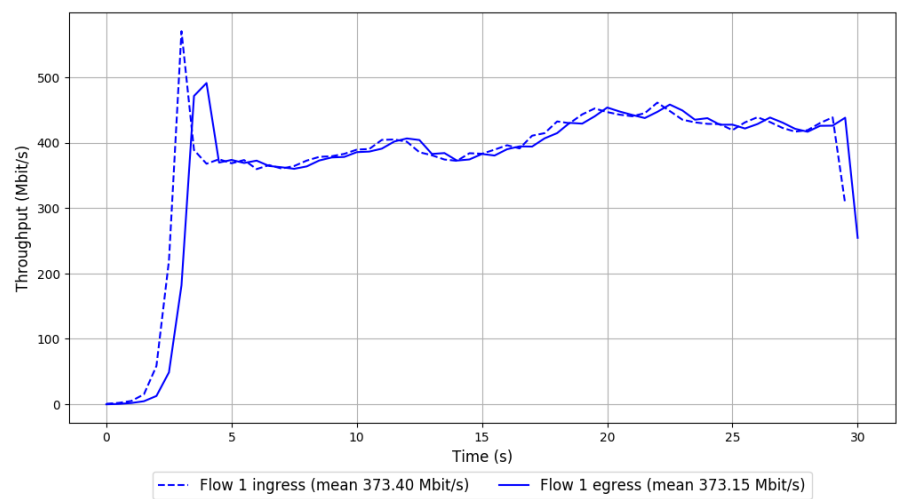


Run 1: Statistics of PCC-Vivace

Start at: 2018-08-11 14:50:56
End at: 2018-08-11 14:51:26
Local clock offset: -0.416 ms
Remote clock offset: -1.584 ms

Below is generated by plot.py at 2018-08-11 20:38:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 373.15 Mbit/s
95th percentile per-packet one-way delay: 63.563 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 373.15 Mbit/s
95th percentile per-packet one-way delay: 63.563 ms
Loss rate: 0.48%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-08-11 15:13:37

End at: 2018-08-11 15:14:08

Local clock offset: -0.501 ms

Remote clock offset: -0.67 ms

Below is generated by plot.py at 2018-08-11 20:39:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 394.65 Mbit/s

95th percentile per-packet one-way delay: 63.780 ms

Loss rate: 0.50%

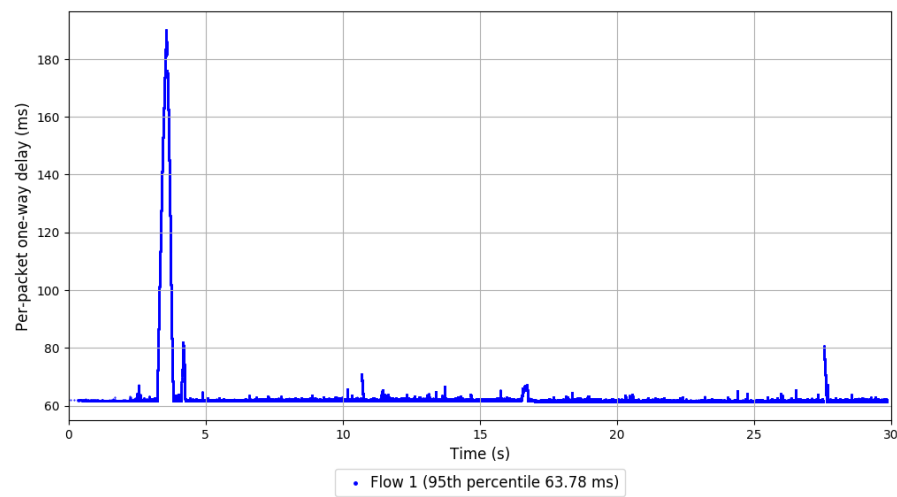
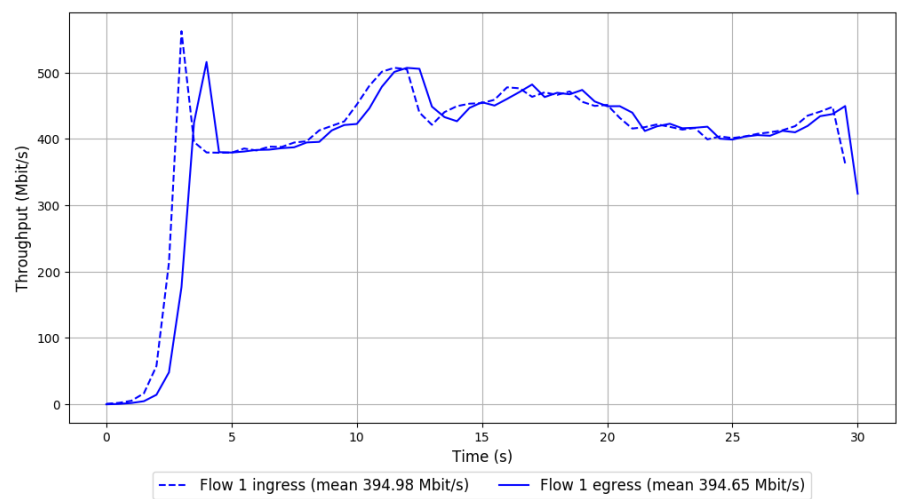
-- Flow 1:

Average throughput: 394.65 Mbit/s

95th percentile per-packet one-way delay: 63.780 ms

Loss rate: 0.50%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-08-11 15:36:36

End at: 2018-08-11 15:37:06

Local clock offset: -0.53 ms

Remote clock offset: -0.89 ms

Below is generated by plot.py at 2018-08-11 20:39:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 405.83 Mbit/s

95th percentile per-packet one-way delay: 63.300 ms

Loss rate: 0.50%

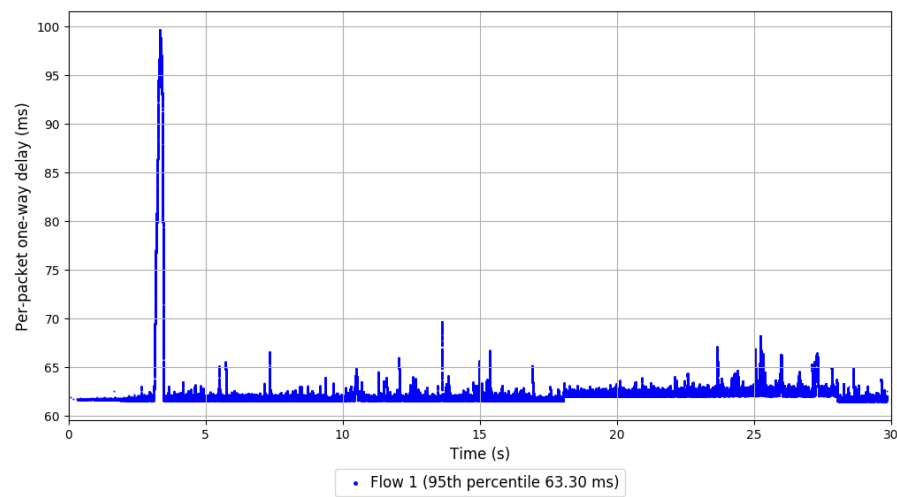
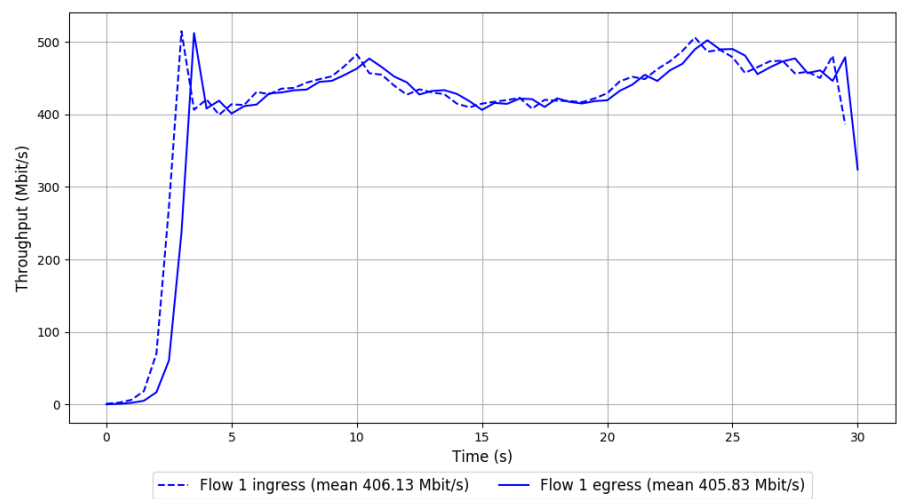
-- Flow 1:

Average throughput: 405.83 Mbit/s

95th percentile per-packet one-way delay: 63.300 ms

Loss rate: 0.50%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-08-11 15:59:16

End at: 2018-08-11 15:59:46

Local clock offset: -0.602 ms

Remote clock offset: 0.037 ms

Below is generated by plot.py at 2018-08-11 20:39:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 293.57 Mbit/s

95th percentile per-packet one-way delay: 63.507 ms

Loss rate: 0.53%

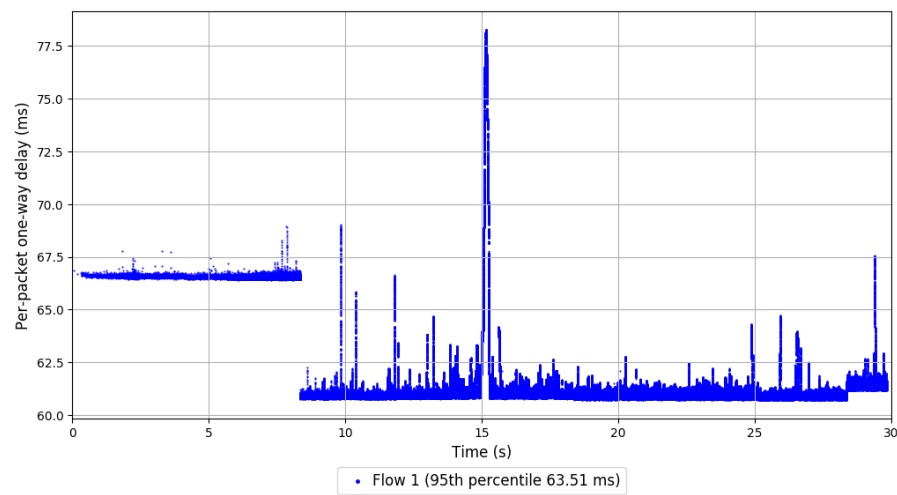
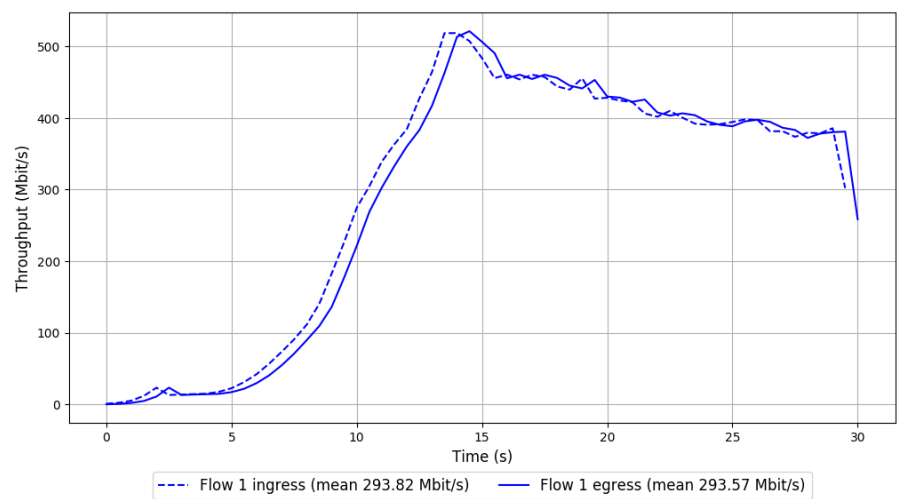
-- Flow 1:

Average throughput: 293.57 Mbit/s

95th percentile per-packet one-way delay: 63.507 ms

Loss rate: 0.53%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-08-11 16:21:35

End at: 2018-08-11 16:22:05

Local clock offset: -0.662 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2018-08-11 20:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 404.71 Mbit/s

95th percentile per-packet one-way delay: 62.810 ms

Loss rate: 0.43%

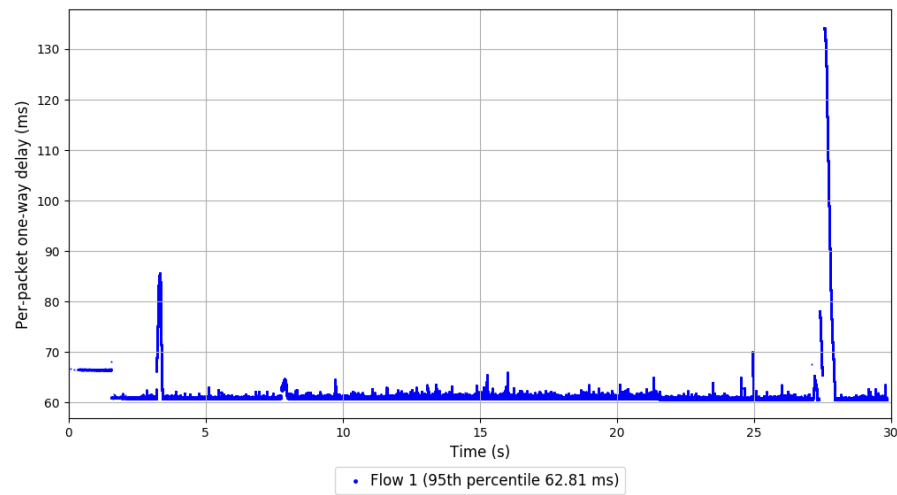
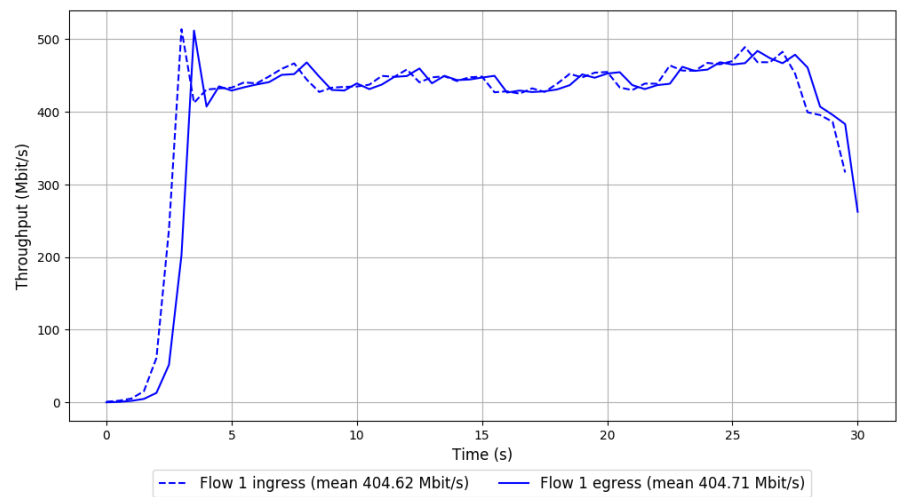
-- Flow 1:

Average throughput: 404.71 Mbit/s

95th percentile per-packet one-way delay: 62.810 ms

Loss rate: 0.43%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-08-11 16:44:10

End at: 2018-08-11 16:44:40

Local clock offset: -0.709 ms

Remote clock offset: 1.207 ms

Below is generated by plot.py at 2018-08-11 20:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.75 Mbit/s

95th percentile per-packet one-way delay: 61.133 ms

Loss rate: 0.58%

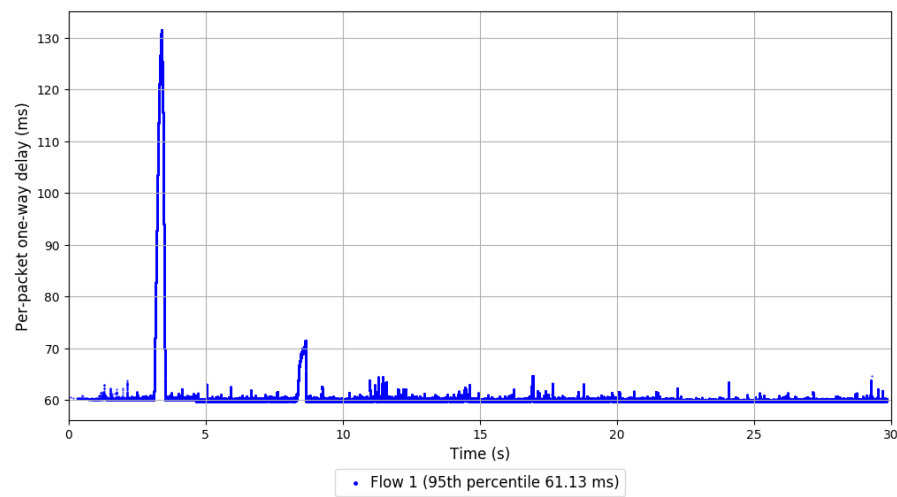
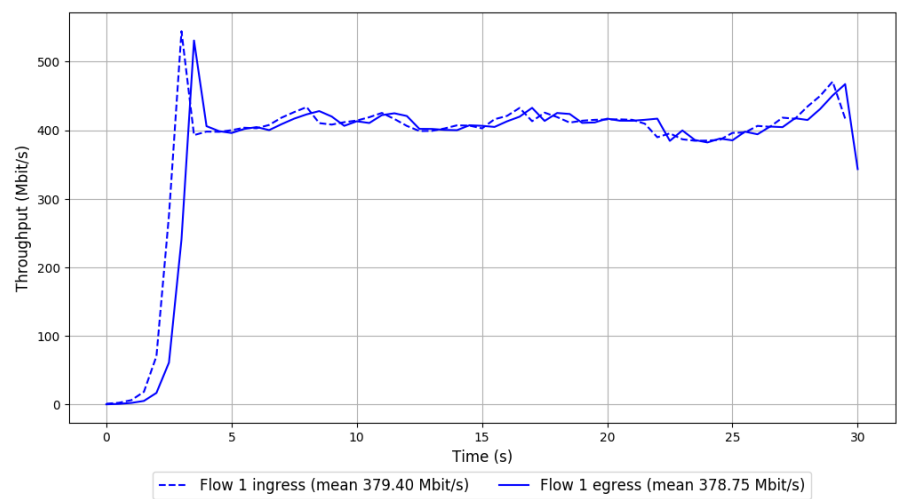
-- Flow 1:

Average throughput: 378.75 Mbit/s

95th percentile per-packet one-way delay: 61.133 ms

Loss rate: 0.58%

Run 6: Report of PCC-Vivace — Data Link

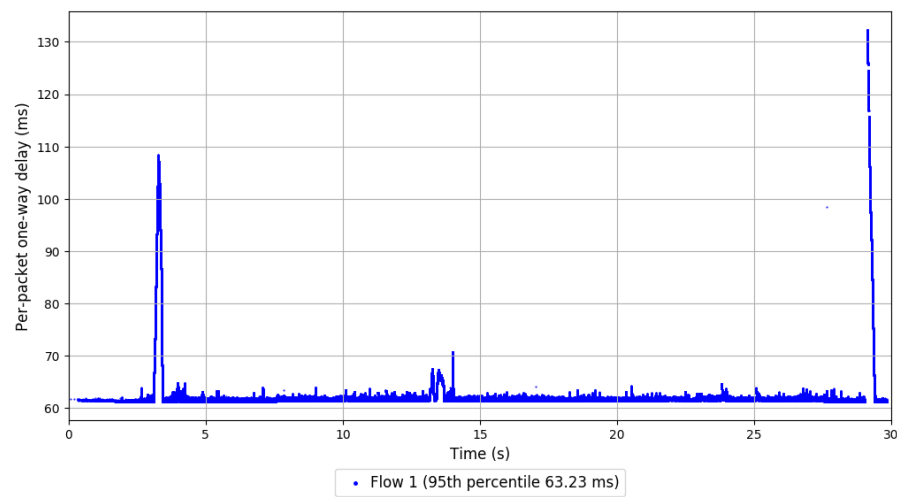
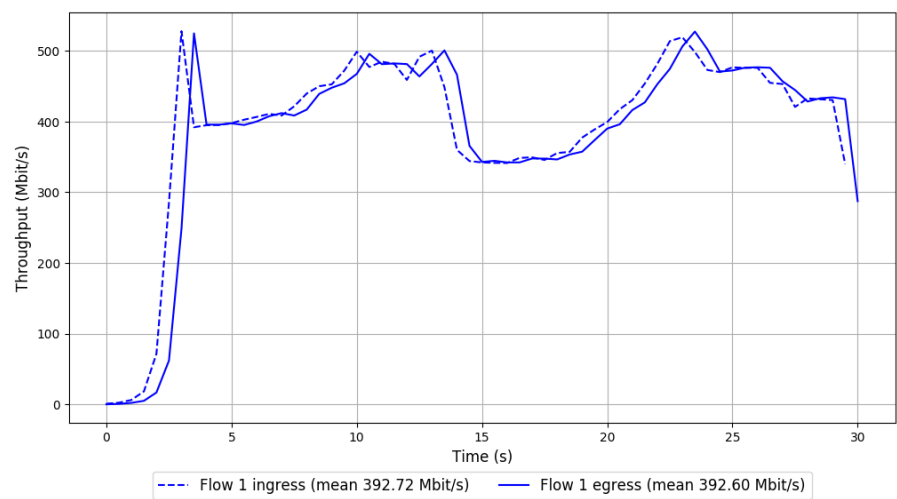


Run 7: Statistics of PCC-Vivace

Start at: 2018-08-11 17:07:17
End at: 2018-08-11 17:07:47
Local clock offset: 0.017 ms
Remote clock offset: -0.493 ms

Below is generated by plot.py at 2018-08-11 20:40:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 392.60 Mbit/s
95th percentile per-packet one-way delay: 63.234 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 392.60 Mbit/s
95th percentile per-packet one-way delay: 63.234 ms
Loss rate: 0.44%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-08-11 17:30:24

End at: 2018-08-11 17:30:54

Local clock offset: 0.386 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2018-08-11 20:41:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 326.30 Mbit/s

95th percentile per-packet one-way delay: 176.937 ms

Loss rate: 1.40%

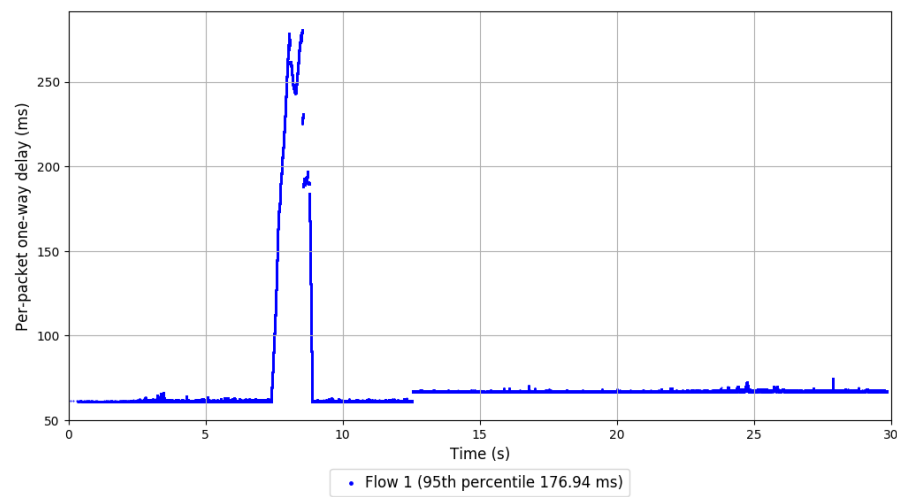
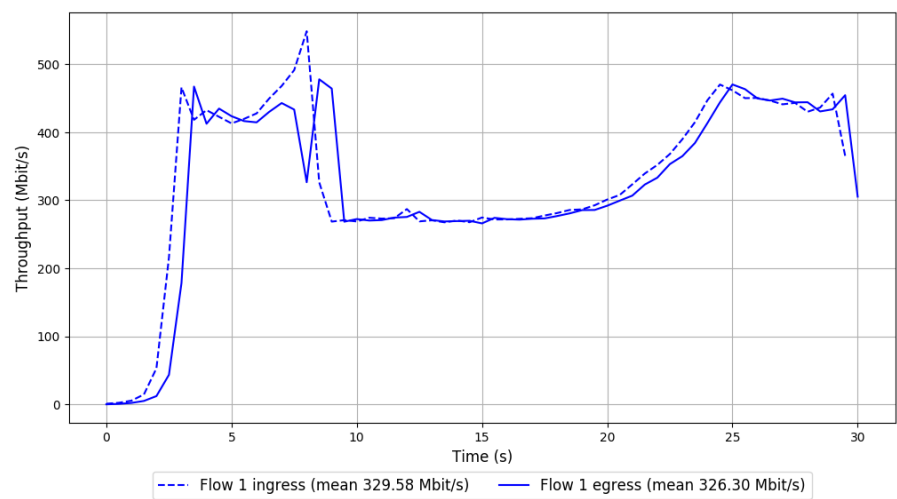
-- Flow 1:

Average throughput: 326.30 Mbit/s

95th percentile per-packet one-way delay: 176.937 ms

Loss rate: 1.40%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-08-11 17:53:22

End at: 2018-08-11 17:53:52

Local clock offset: 0.623 ms

Remote clock offset: -0.21 ms

Below is generated by plot.py at 2018-08-11 20:41:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 405.09 Mbit/s

95th percentile per-packet one-way delay: 63.221 ms

Loss rate: 0.45%

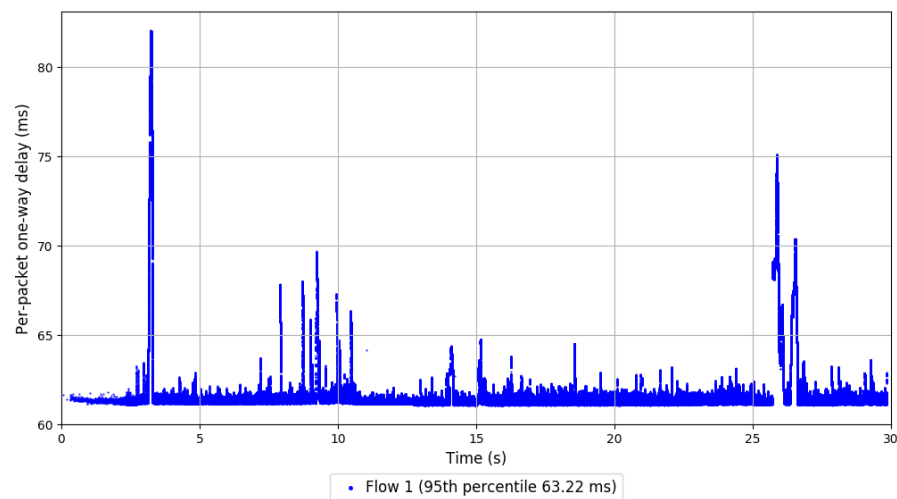
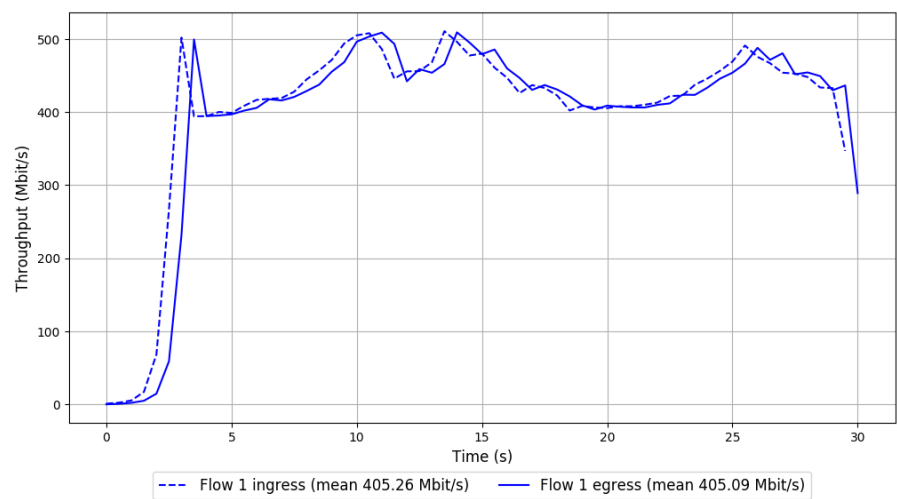
-- Flow 1:

Average throughput: 405.09 Mbit/s

95th percentile per-packet one-way delay: 63.221 ms

Loss rate: 0.45%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-08-11 18:16:15

End at: 2018-08-11 18:16:45

Local clock offset: 1.0 ms

Remote clock offset: -0.255 ms

Below is generated by plot.py at 2018-08-11 20:41:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 313.45 Mbit/s

95th percentile per-packet one-way delay: 67.539 ms

Loss rate: 0.54%

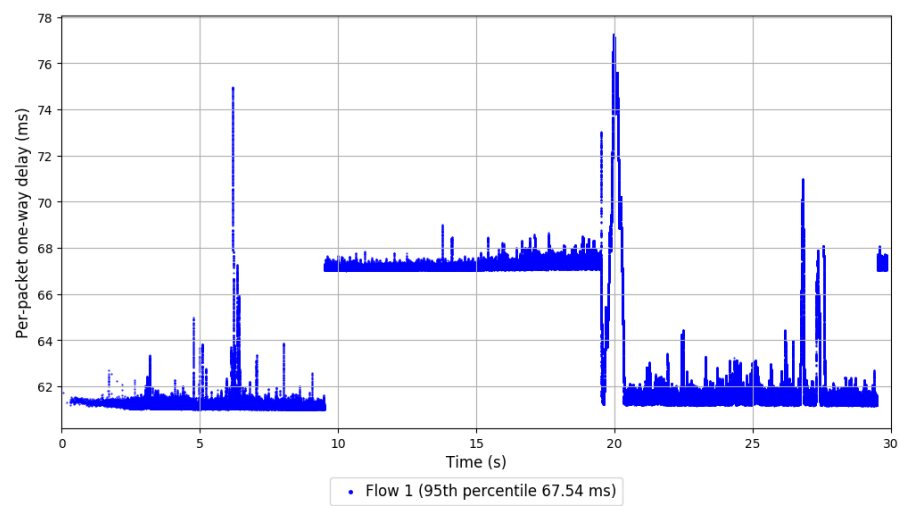
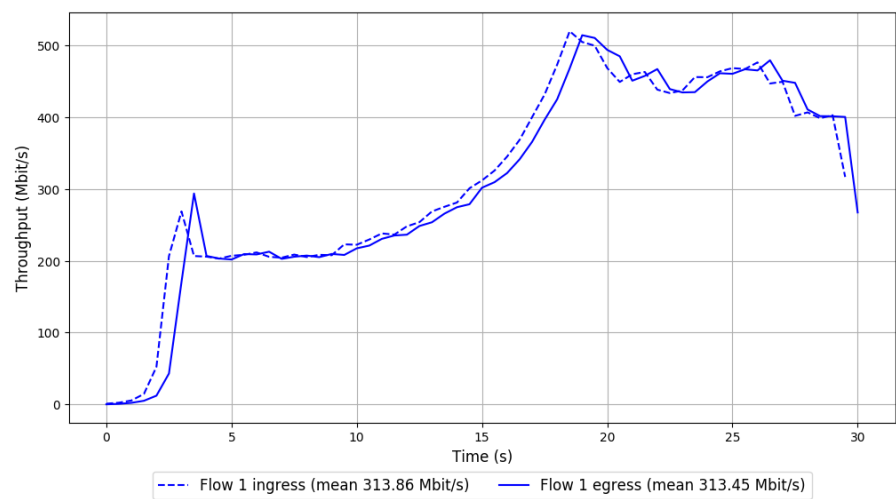
-- Flow 1:

Average throughput: 313.45 Mbit/s

95th percentile per-packet one-way delay: 67.539 ms

Loss rate: 0.54%

Run 10: Report of PCC-Vivace — Data Link

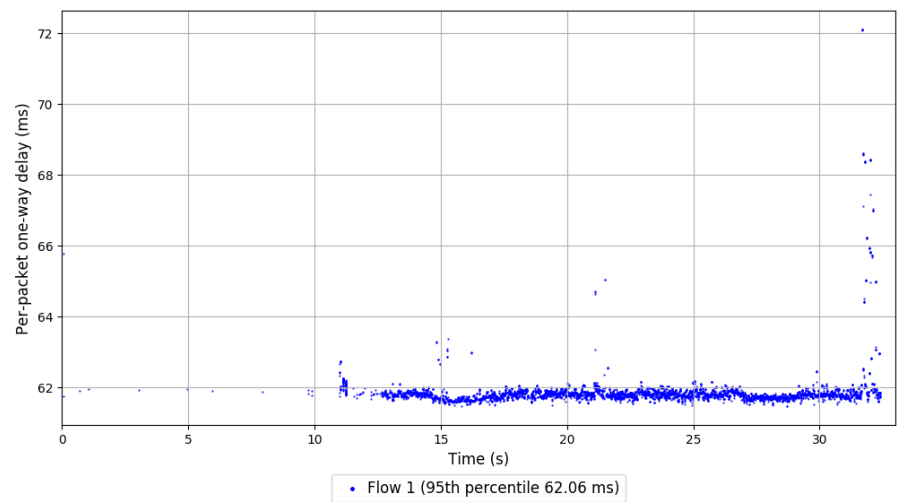
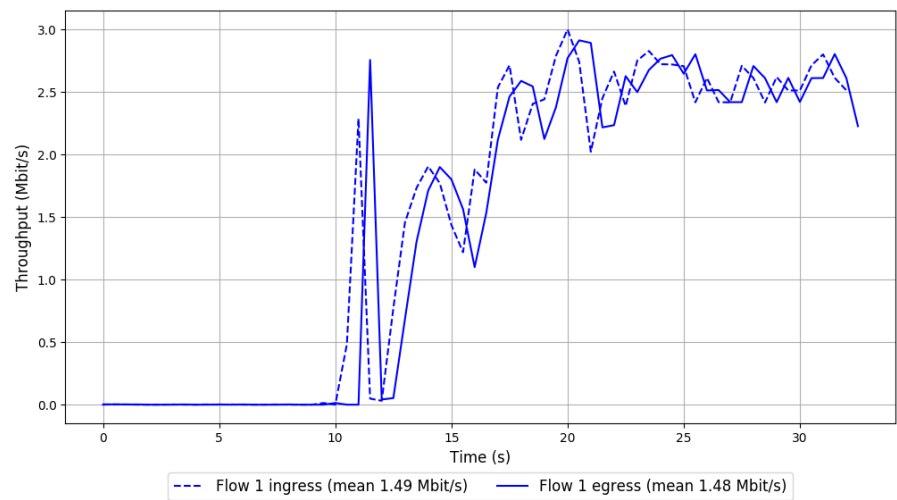


Run 1: Statistics of WebRTC media

Start at: 2018-08-11 14:36:42
End at: 2018-08-11 14:37:12
Local clock offset: -0.409 ms
Remote clock offset: -0.828 ms

Below is generated by plot.py at 2018-08-11 20:41:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: 62.061 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: 62.061 ms
Loss rate: 0.70%

Run 1: Report of WebRTC media — Data Link

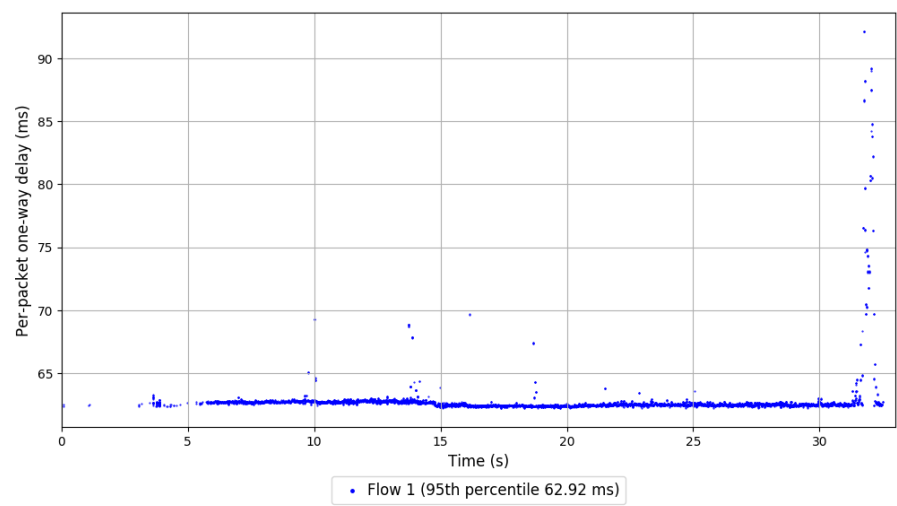
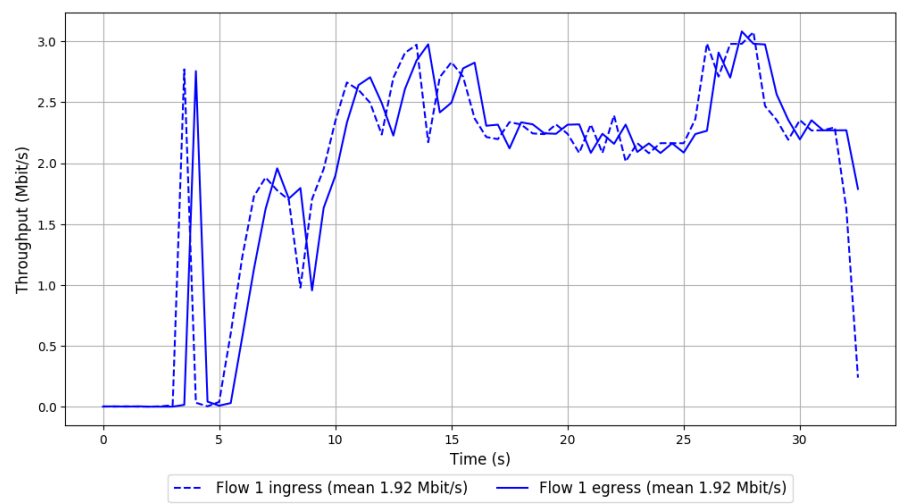


Run 2: Statistics of WebRTC media

Start at: 2018-08-11 14:59:32
End at: 2018-08-11 15:00:02
Local clock offset: -0.452 ms
Remote clock offset: -1.519 ms

Below is generated by plot.py at 2018-08-11 20:41:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 62.924 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 62.924 ms
Loss rate: 0.33%

Run 2: Report of WebRTC media — Data Link

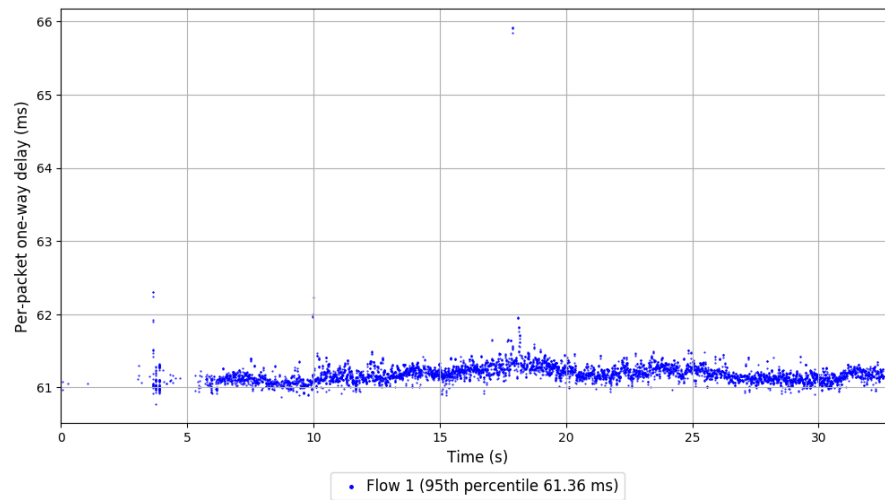
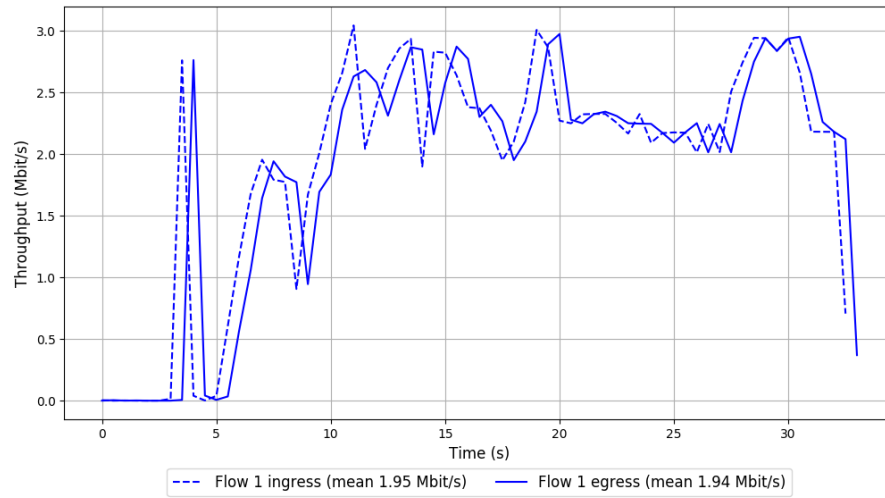


Run 3: Statistics of WebRTC media

Start at: 2018-08-11 15:22:16
End at: 2018-08-11 15:22:46
Local clock offset: -0.533 ms
Remote clock offset: -0.076 ms

Below is generated by plot.py at 2018-08-11 20:41:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 61.363 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 61.363 ms
Loss rate: 0.50%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-08-11 15:45:21

End at: 2018-08-11 15:45:51

Local clock offset: -0.518 ms

Remote clock offset: 1.209 ms

Below is generated by plot.py at 2018-08-11 20:41:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 60.185 ms

Loss rate: 0.51%

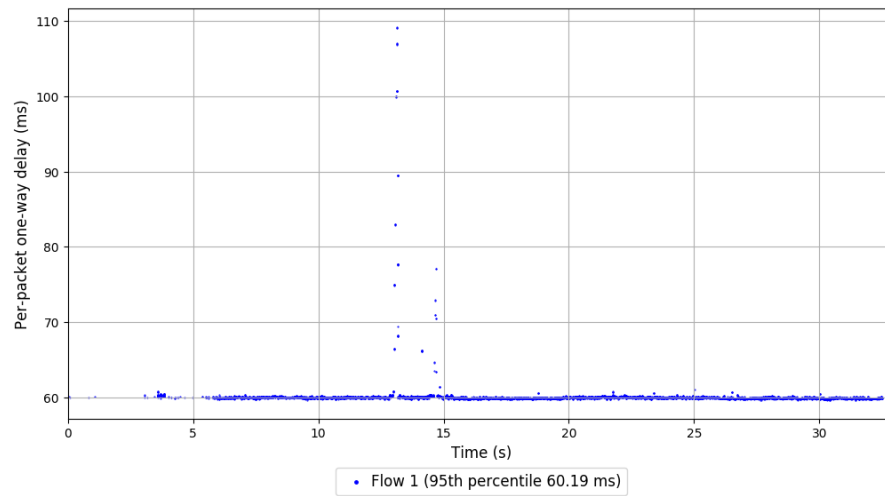
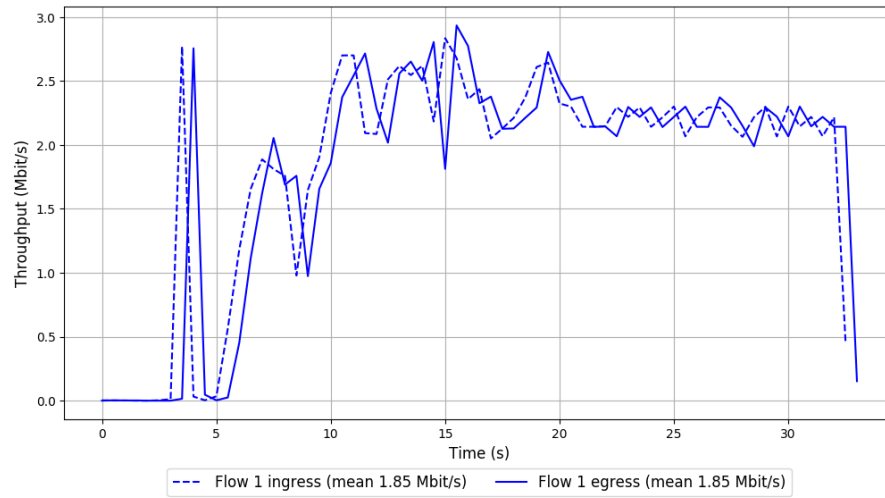
-- Flow 1:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 60.185 ms

Loss rate: 0.51%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-08-11 16:07:49

End at: 2018-08-11 16:08:19

Local clock offset: -0.626 ms

Remote clock offset: 0.466 ms

Below is generated by plot.py at 2018-08-11 20:41:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 66.232 ms

Loss rate: 0.50%

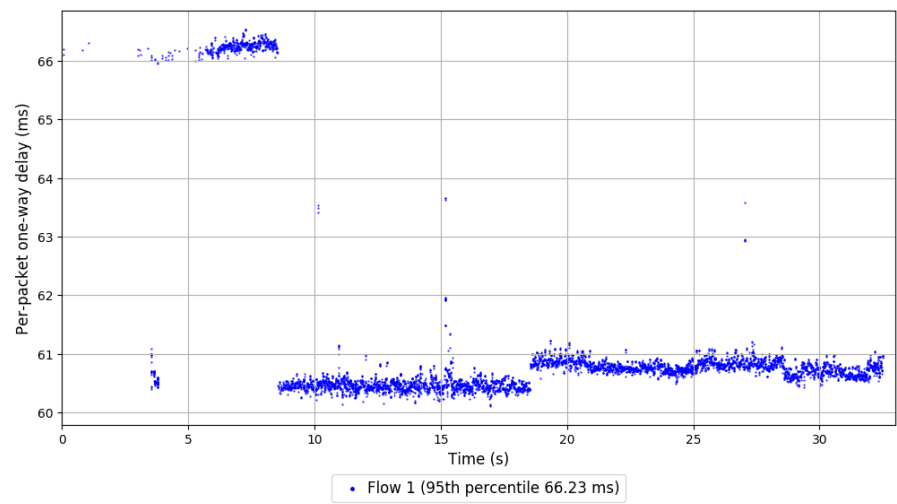
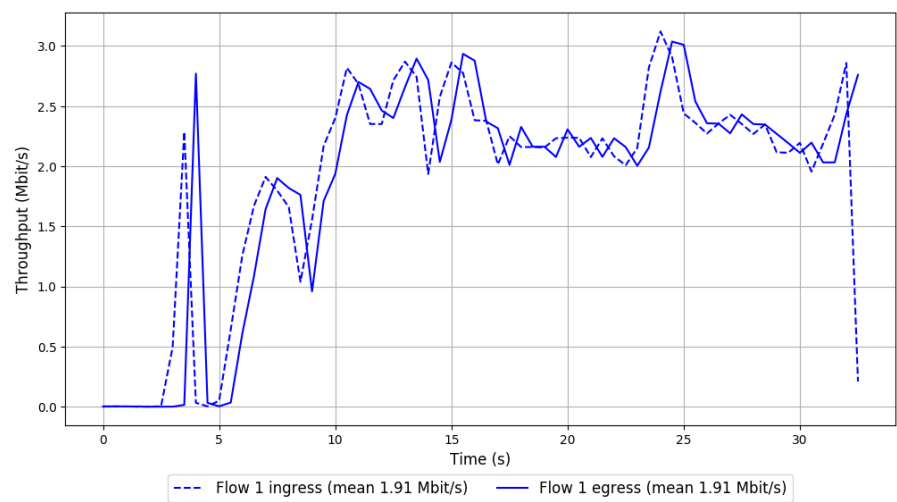
-- Flow 1:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 66.232 ms

Loss rate: 0.50%

Run 5: Report of WebRTC media — Data Link

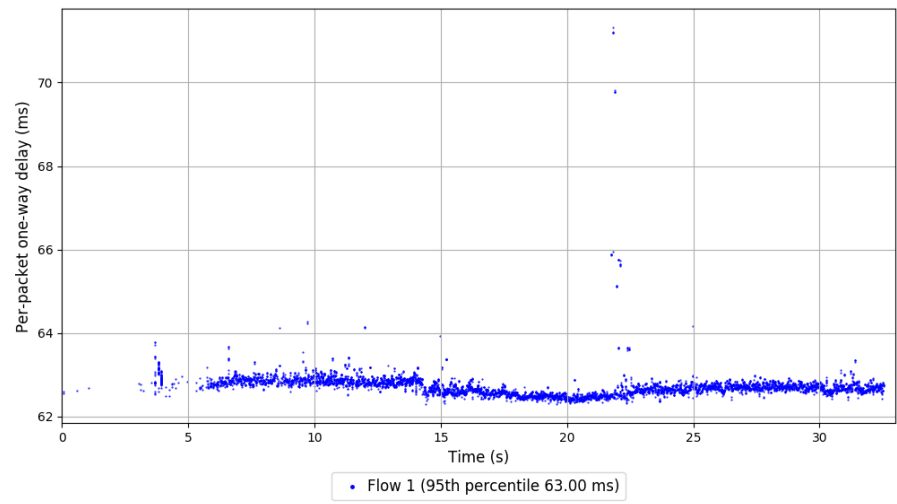
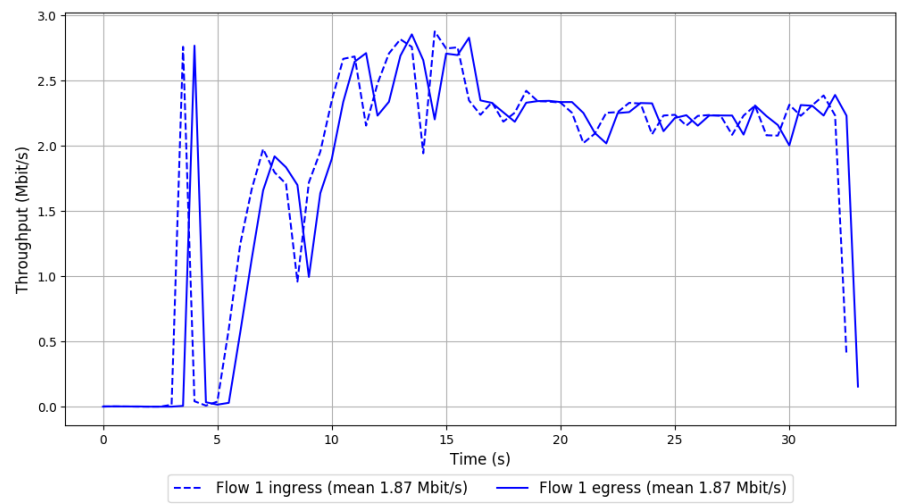


Run 6: Statistics of WebRTC media

Start at: 2018-08-11 16:30:03
End at: 2018-08-11 16:30:33
Local clock offset: -0.654 ms
Remote clock offset: -1.366 ms

Below is generated by plot.py at 2018-08-11 20:41:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.87 Mbit/s
95th percentile per-packet one-way delay: 62.997 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 1.87 Mbit/s
95th percentile per-packet one-way delay: 62.997 ms
Loss rate: 0.45%

Run 6: Report of WebRTC media — Data Link

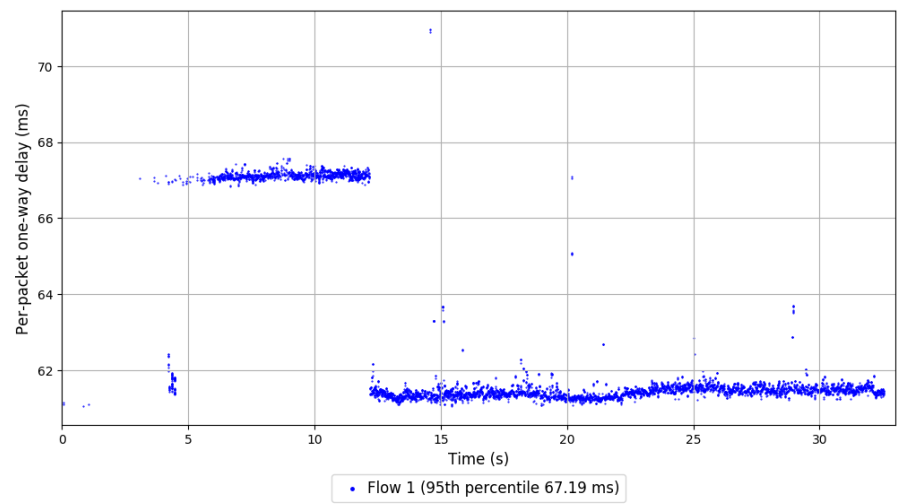
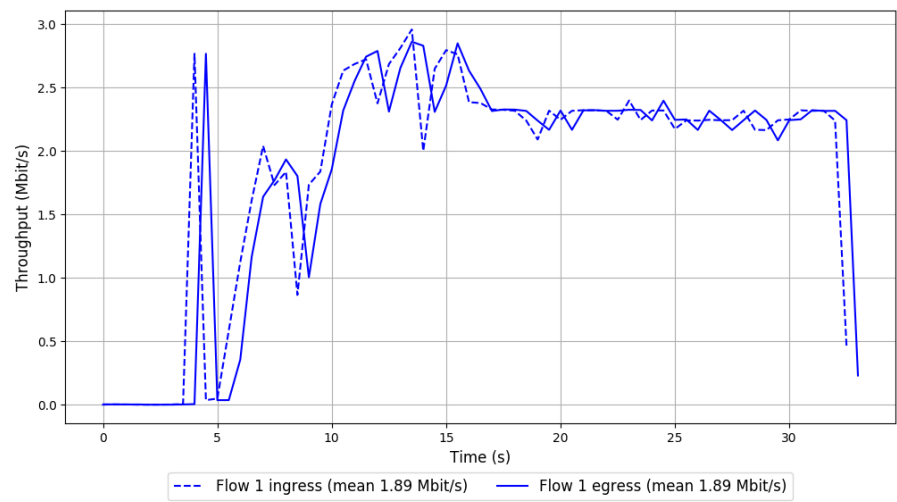


Run 7: Statistics of WebRTC media

Start at: 2018-08-11 16:52:55
End at: 2018-08-11 16:53:25
Local clock offset: -0.696 ms
Remote clock offset: -0.243 ms

Below is generated by plot.py at 2018-08-11 20:41:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 67.191 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 67.191 ms
Loss rate: 0.44%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-08-11 17:16:02

End at: 2018-08-11 17:16:32

Local clock offset: 0.207 ms

Remote clock offset: -0.62 ms

Below is generated by plot.py at 2018-08-11 20:41:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 62.026 ms

Loss rate: 0.45%

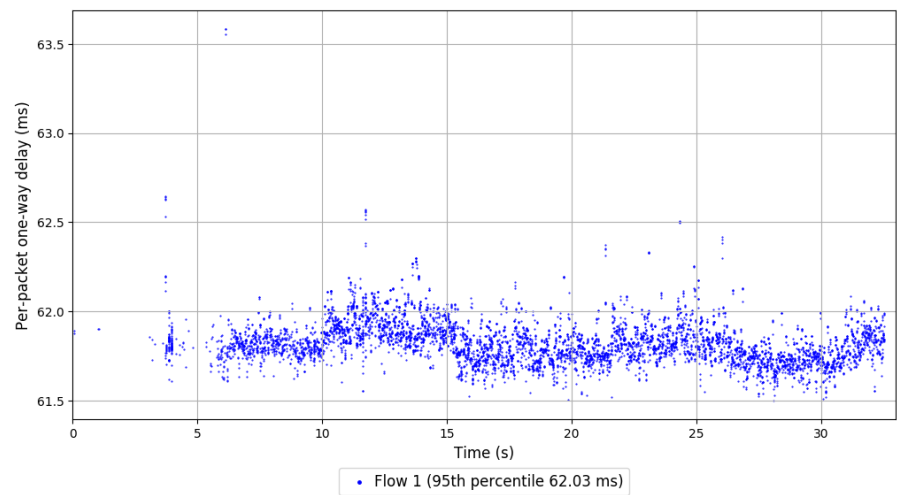
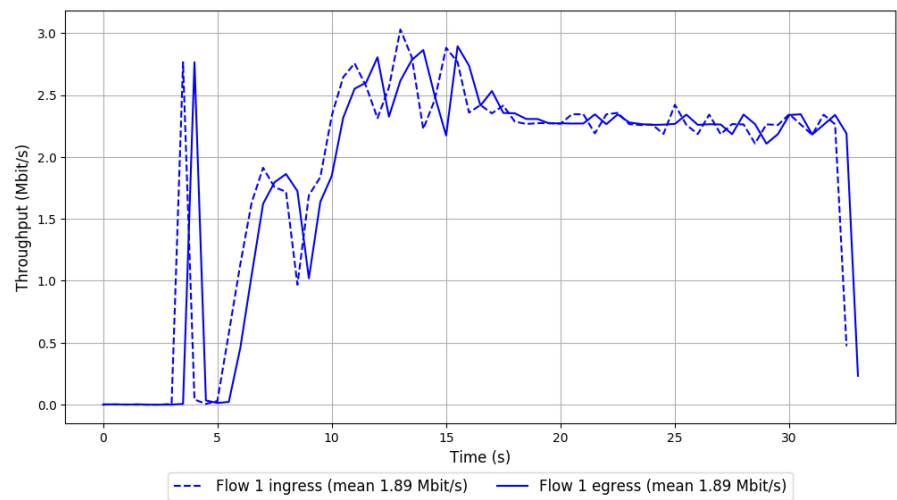
-- Flow 1:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 62.026 ms

Loss rate: 0.45%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-08-11 17:39:02

End at: 2018-08-11 17:39:32

Local clock offset: 0.422 ms

Remote clock offset: 0.395 ms

Below is generated by plot.py at 2018-08-11 20:41:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 60.958 ms

Loss rate: 0.44%

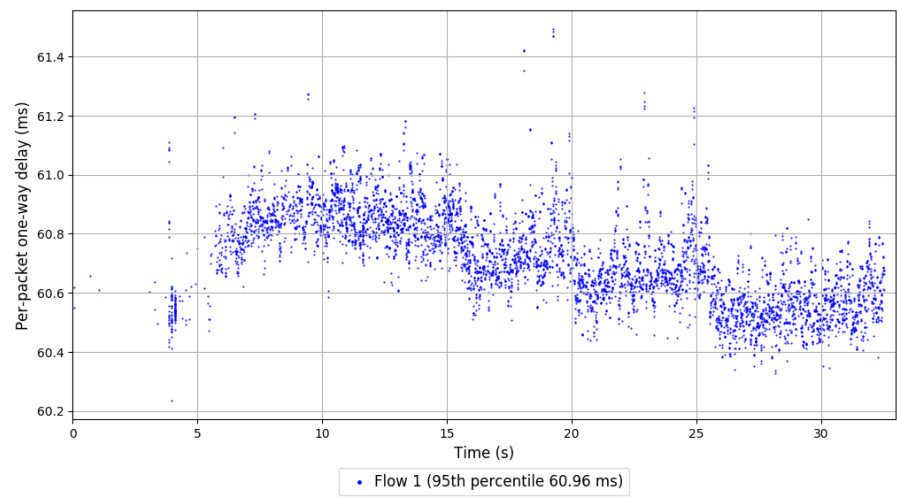
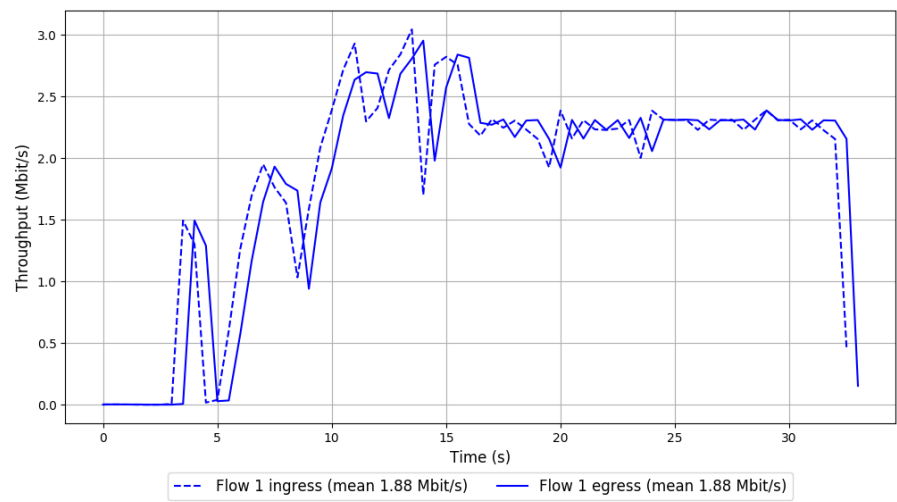
-- Flow 1:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 60.958 ms

Loss rate: 0.44%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-08-11 18:02:06

End at: 2018-08-11 18:02:36

Local clock offset: 0.697 ms

Remote clock offset: 0.536 ms

Below is generated by plot.py at 2018-08-11 20:41:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 66.631 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 66.631 ms

Loss rate: 0.43%

Run 10: Report of WebRTC media — Data Link

