

Pantheon Report

Generated at 2018-07-06 06:51:16 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

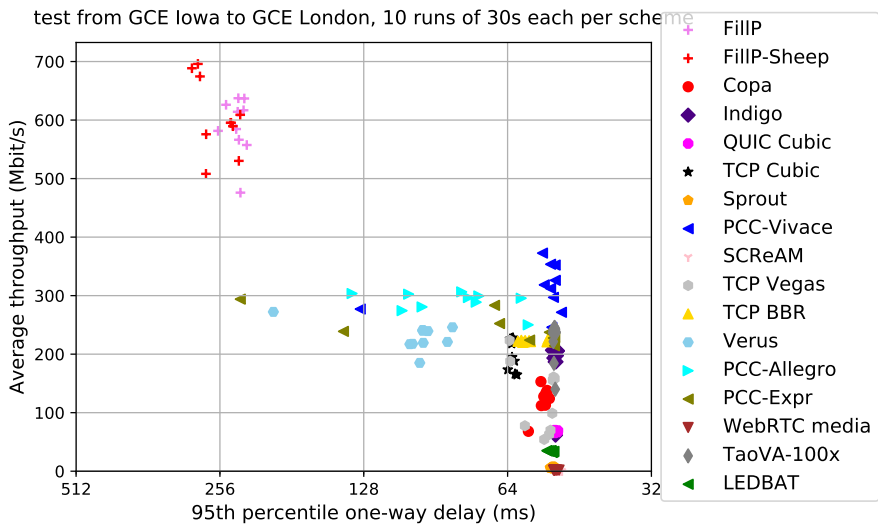
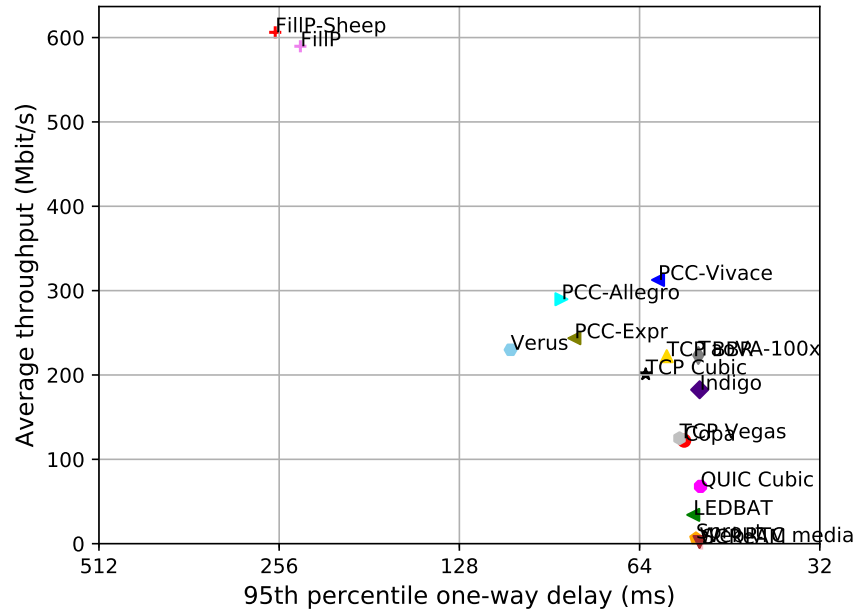
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

Git summary:

```
branch: master @ 9250dbeec7fb57193cdff1ba8c440b4e16ab30f0
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ 37162fe9af85249aeccac061c93e75640ef710b5
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
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-quick @ 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 Iowa to GCE London, 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	222.29	57.65	0.35
Copa	9	122.10	53.91	0.37
TCP Cubic	10	200.84	62.52	0.29
FillP	10	589.70	235.93	0.91
FillP-Sheep	10	606.21	259.91	2.19
Indigo	9	182.49	50.80	0.37
LEDBAT	10	34.17	52.07	0.68
PCC-Allegro	10	289.82	86.44	0.45
PCC-Expr	10	243.56	82.24	0.54
QUIC Cubic	9	67.95	50.63	0.39
SCReAM	10	0.22	50.40	0.39
Sprout	10	6.29	51.52	0.26
TaoVA-100x	10	223.08	51.06	0.32
TCP Vegas	10	124.98	54.89	0.30
Verus	10	229.88	105.10	0.55
PCC-Vivace	10	312.68	59.62	0.40
WebRTC media	9	1.94	50.83	0.39

Run 1: Statistics of TCP BBR

Start at: 2018-07-06 01:43:32

End at: 2018-07-06 01:44:02

Local clock offset: 0.359 ms

Remote clock offset: -0.007 ms

Below is generated by plot.py at 2018-07-06 05:26:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.67 Mbit/s

95th percentile per-packet one-way delay: 59.905 ms

Loss rate: 0.37%

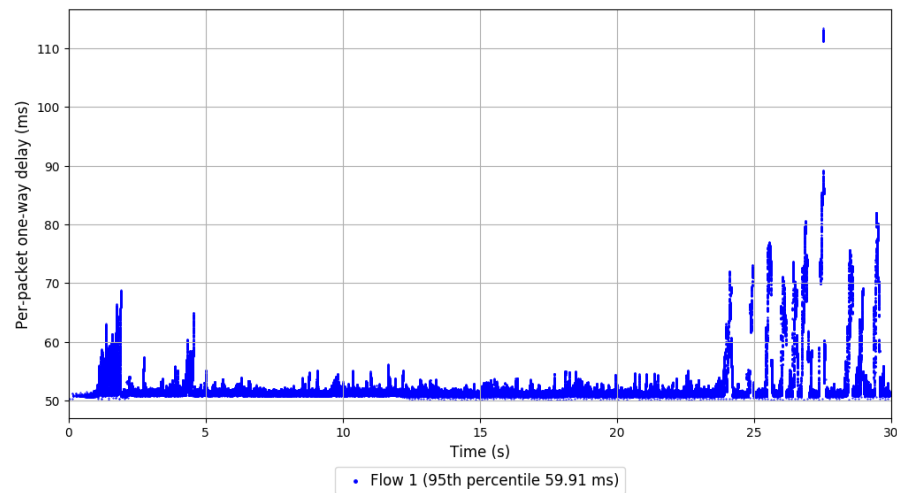
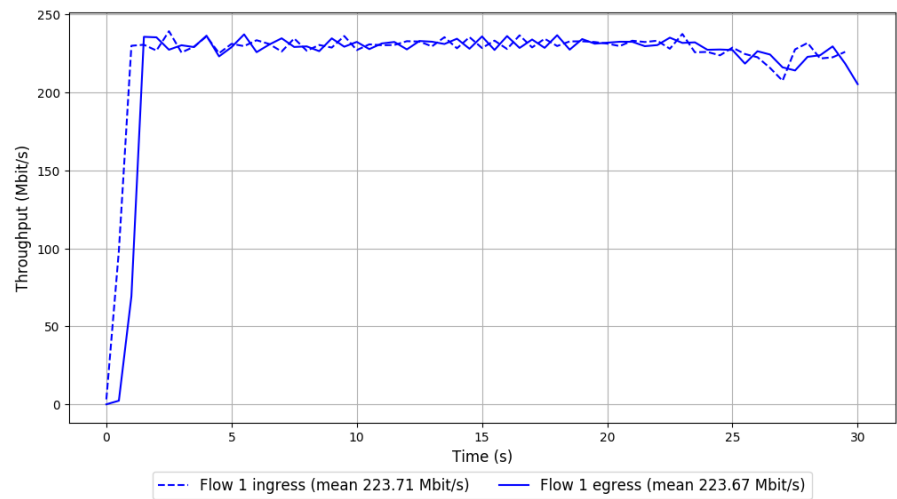
-- Flow 1:

Average throughput: 223.67 Mbit/s

95th percentile per-packet one-way delay: 59.905 ms

Loss rate: 0.37%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-06 02:04:55

End at: 2018-07-06 02:05:25

Local clock offset: 0.733 ms

Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-07-06 05:26:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.04 Mbit/s

95th percentile per-packet one-way delay: 60.872 ms

Loss rate: 0.37%

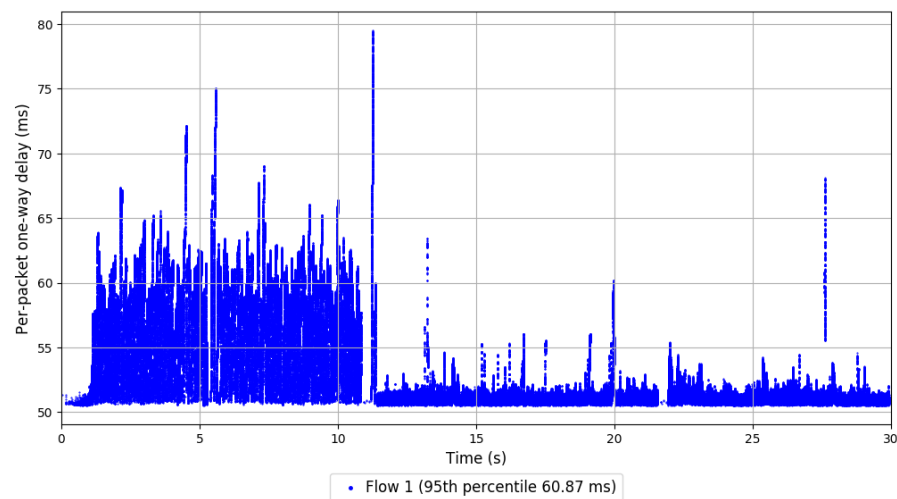
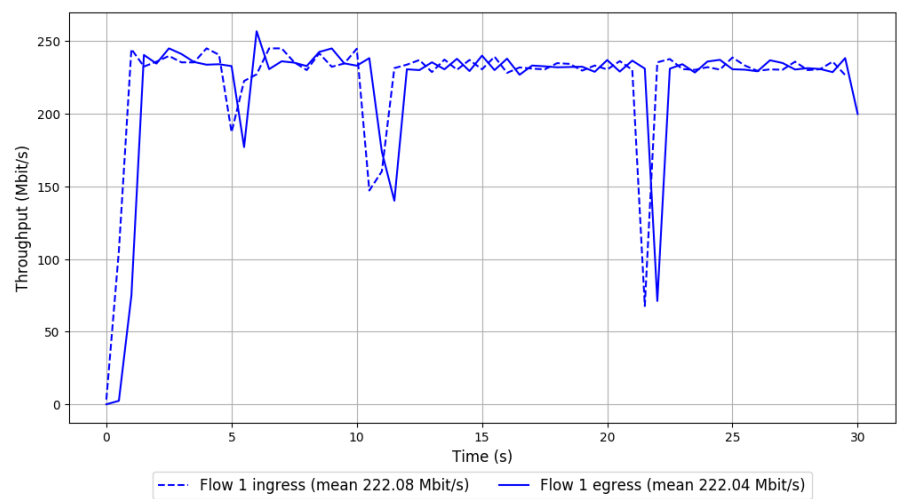
-- Flow 1:

Average throughput: 222.04 Mbit/s

95th percentile per-packet one-way delay: 60.872 ms

Loss rate: 0.37%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-06 02:26:20

End at: 2018-07-06 02:26:50

Local clock offset: 0.402 ms

Remote clock offset: -0.139 ms

Below is generated by plot.py at 2018-07-06 05:26:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.23 Mbit/s

95th percentile per-packet one-way delay: 58.809 ms

Loss rate: 0.35%

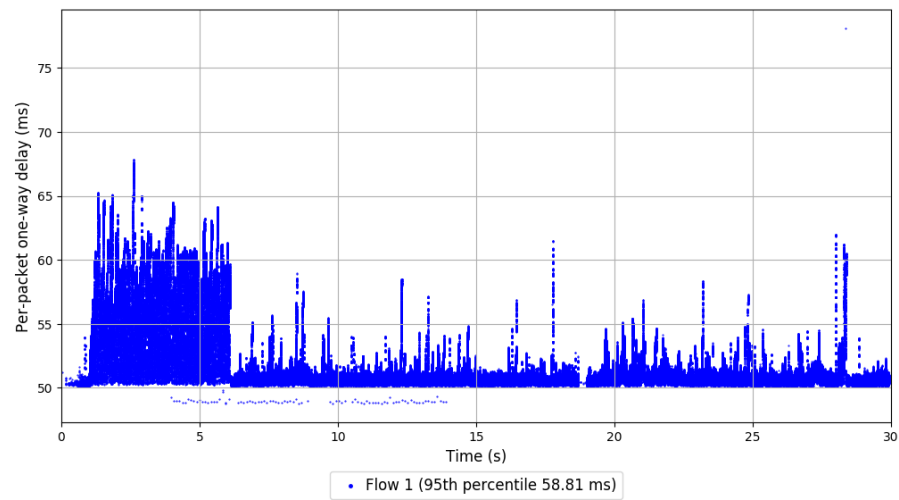
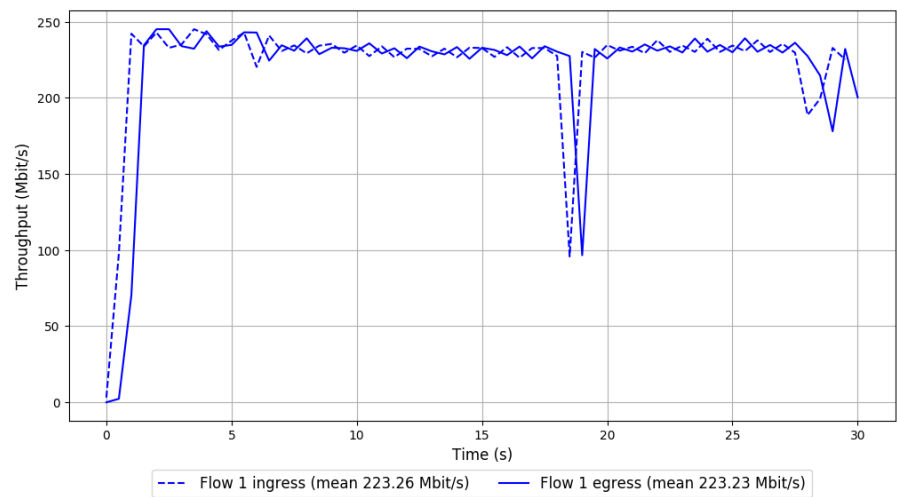
-- Flow 1:

Average throughput: 223.23 Mbit/s

95th percentile per-packet one-way delay: 58.809 ms

Loss rate: 0.35%

Run 3: Report of TCP BBR — Data Link

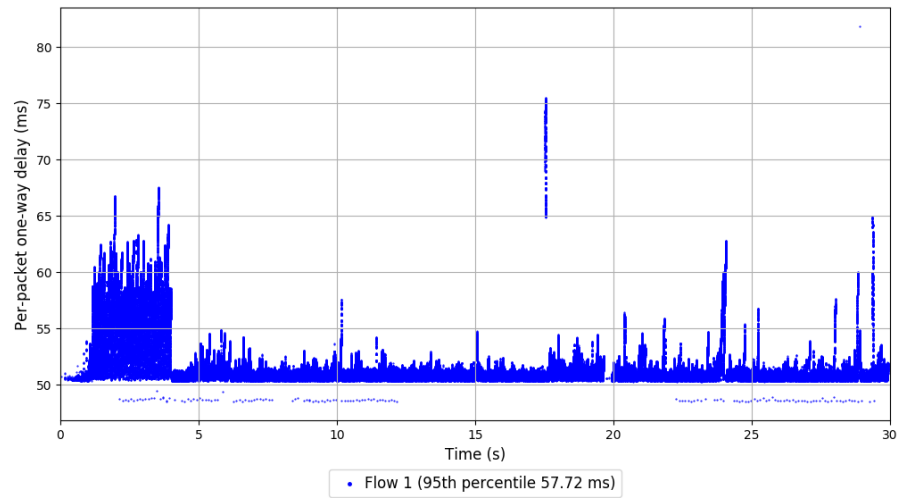
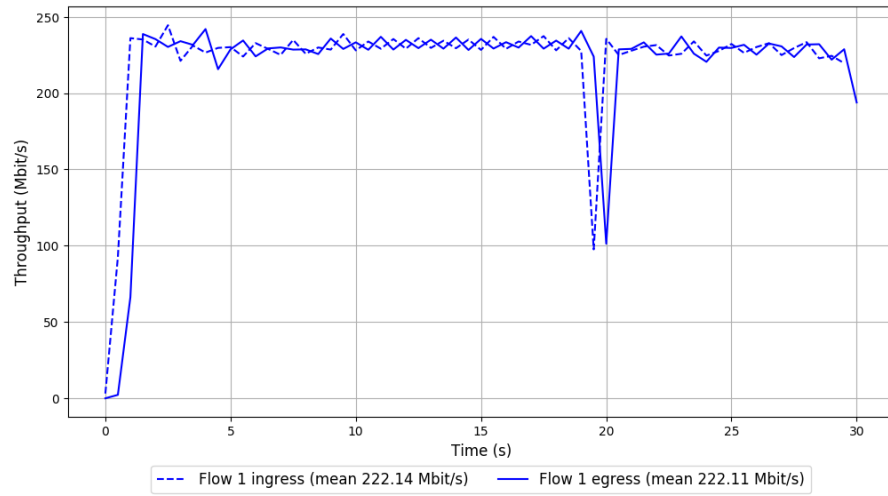


Run 4: Statistics of TCP BBR

Start at: 2018-07-06 02:47:42
End at: 2018-07-06 02:48:12
Local clock offset: 0.105 ms
Remote clock offset: -0.283 ms

Below is generated by plot.py at 2018-07-06 05:26:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 222.11 Mbit/s
95th percentile per-packet one-way delay: 57.719 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 222.11 Mbit/s
95th percentile per-packet one-way delay: 57.719 ms
Loss rate: 0.35%

Run 4: Report of TCP BBR — Data Link

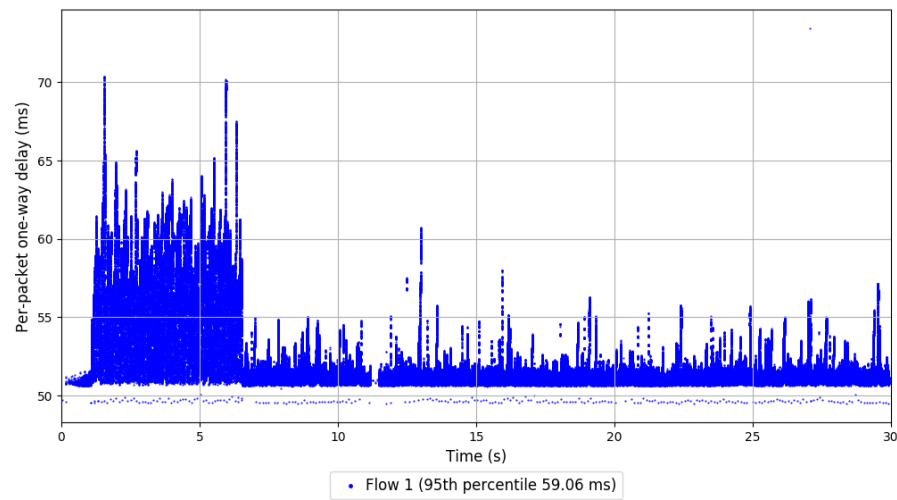
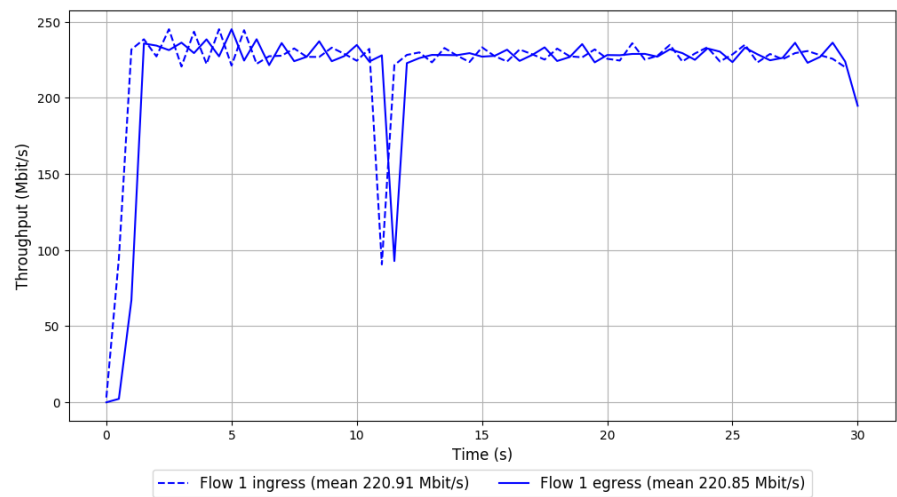


Run 5: Statistics of TCP BBR

Start at: 2018-07-06 03:09:20
End at: 2018-07-06 03:09:50
Local clock offset: -0.09 ms
Remote clock offset: -0.032 ms

Below is generated by plot.py at 2018-07-06 05:26:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 220.85 Mbit/s
95th percentile per-packet one-way delay: 59.059 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 220.85 Mbit/s
95th percentile per-packet one-way delay: 59.059 ms
Loss rate: 0.35%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-07-06 03:30:56

End at: 2018-07-06 03:31:26

Local clock offset: -0.323 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-07-06 05:26:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.90 Mbit/s

95th percentile per-packet one-way delay: 57.698 ms

Loss rate: 0.35%

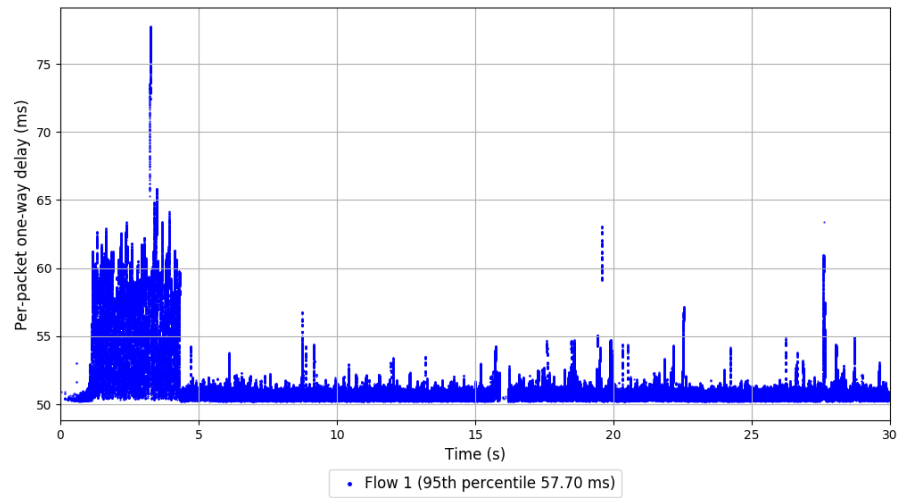
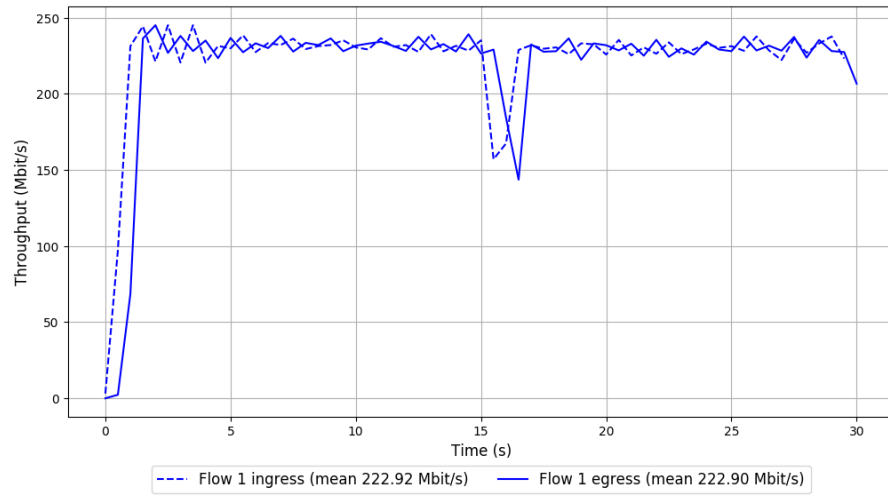
-- Flow 1:

Average throughput: 222.90 Mbit/s

95th percentile per-packet one-way delay: 57.698 ms

Loss rate: 0.35%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-06 03:52:38

End at: 2018-07-06 03:53:08

Local clock offset: -0.497 ms

Remote clock offset: 0.081 ms

Below is generated by plot.py at 2018-07-06 05:26:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.49 Mbit/s

95th percentile per-packet one-way delay: 57.304 ms

Loss rate: 0.35%

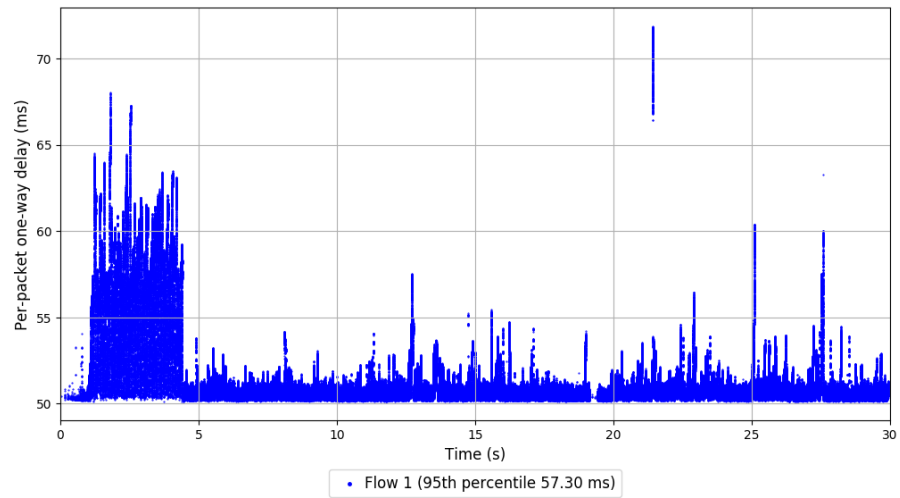
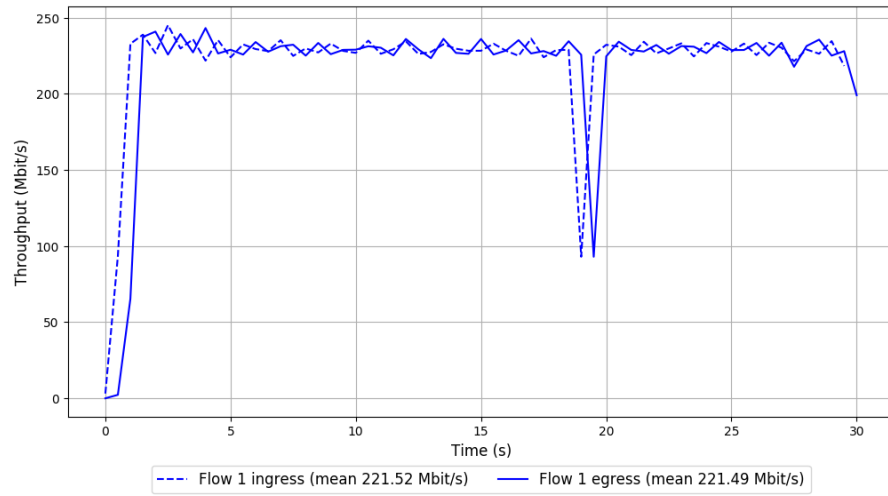
-- Flow 1:

Average throughput: 221.49 Mbit/s

95th percentile per-packet one-way delay: 57.304 ms

Loss rate: 0.35%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-06 04:14:06

End at: 2018-07-06 04:14:36

Local clock offset: -0.995 ms

Remote clock offset: 0.19 ms

Below is generated by plot.py at 2018-07-06 05:26:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.01 Mbit/s

95th percentile per-packet one-way delay: 52.930 ms

Loss rate: 0.35%

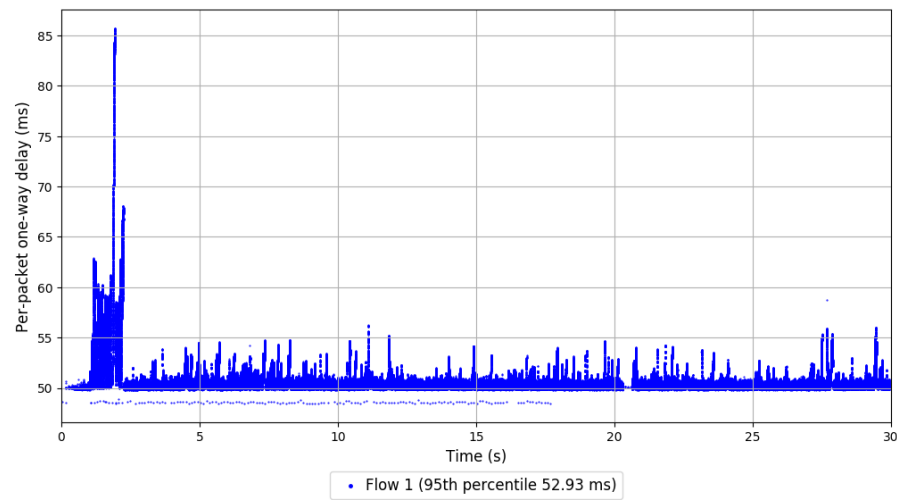
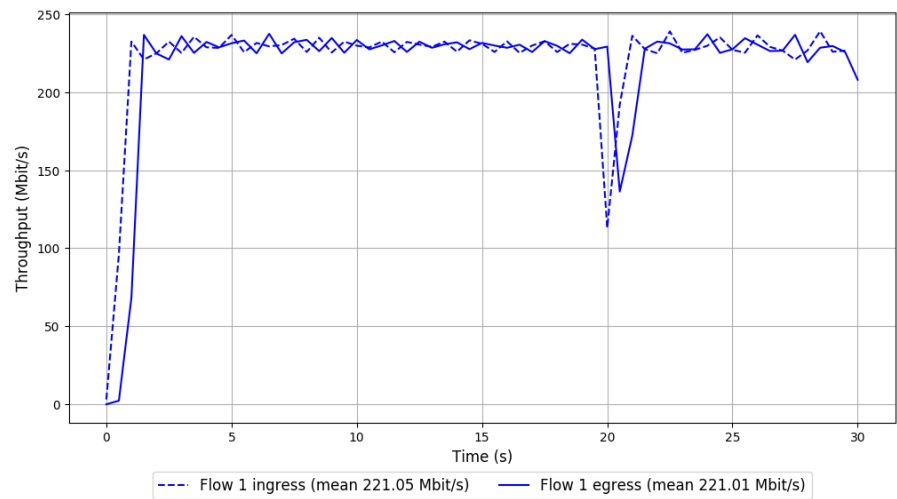
-- Flow 1:

Average throughput: 221.01 Mbit/s

95th percentile per-packet one-way delay: 52.930 ms

Loss rate: 0.35%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-06 04:35:43

End at: 2018-07-06 04:36:13

Local clock offset: -1.153 ms

Remote clock offset: 0.364 ms

Below is generated by plot.py at 2018-07-06 05:30:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.43 Mbit/s

95th percentile per-packet one-way delay: 52.681 ms

Loss rate: 0.33%

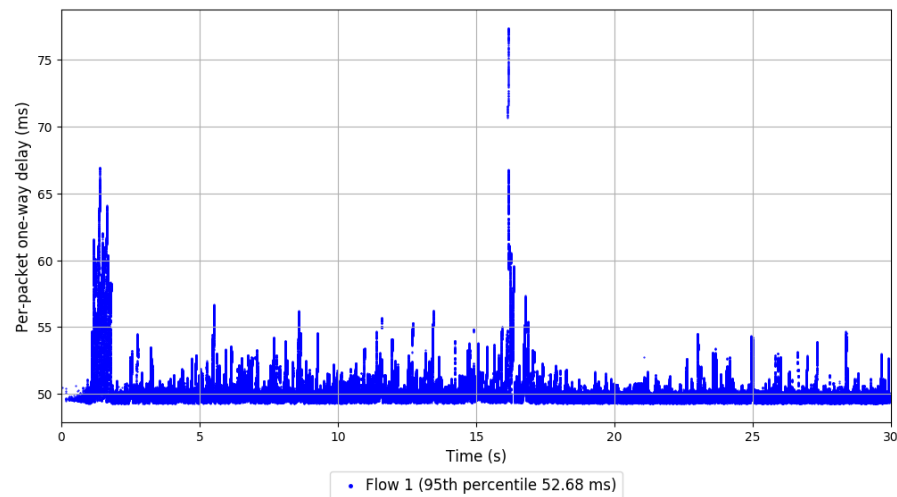
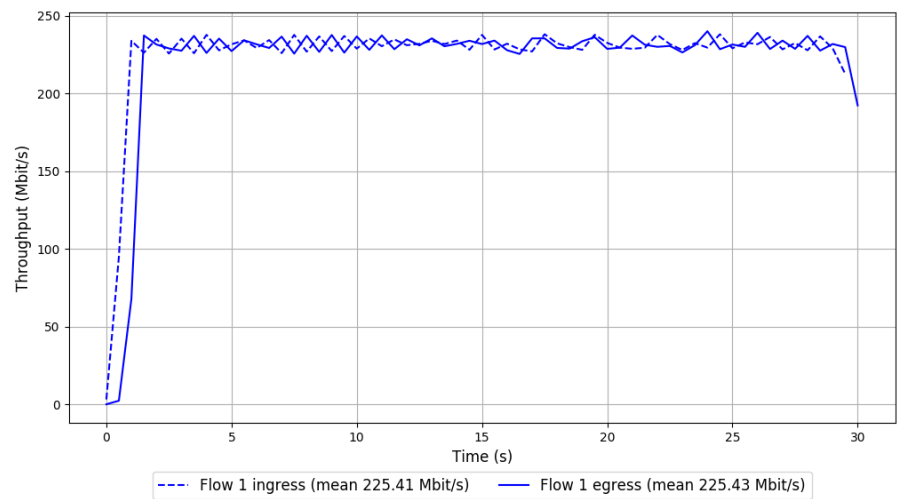
-- Flow 1:

Average throughput: 225.43 Mbit/s

95th percentile per-packet one-way delay: 52.681 ms

Loss rate: 0.33%

Run 9: Report of TCP BBR — Data Link

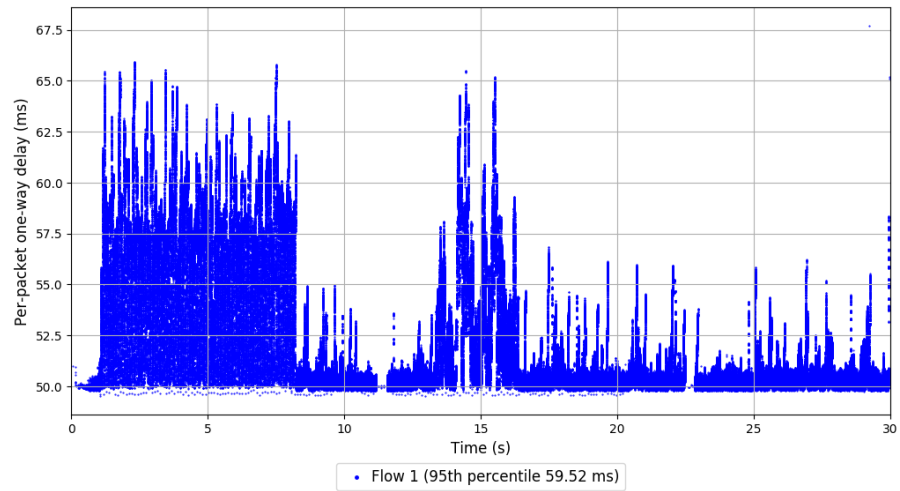
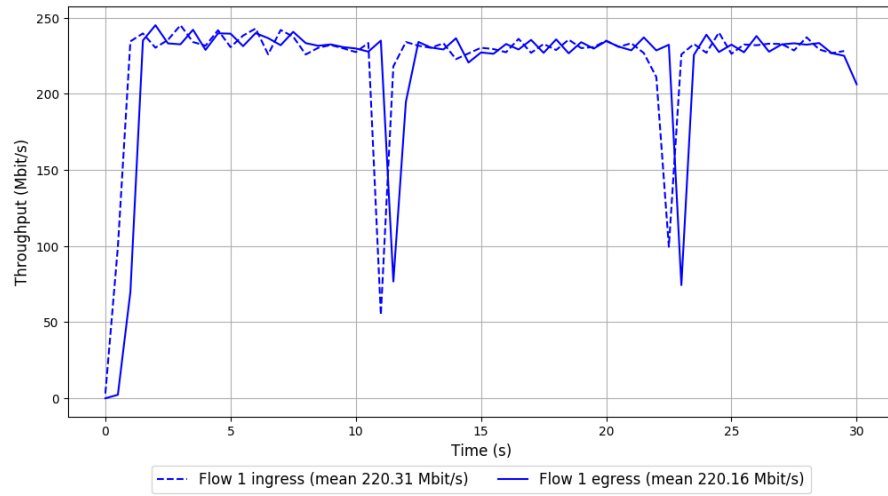


Run 10: Statistics of TCP BBR

Start at: 2018-07-06 04:57:14
End at: 2018-07-06 04:57:44
Local clock offset: -0.015 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2018-07-06 05:30:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 220.16 Mbit/s
95th percentile per-packet one-way delay: 59.524 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 220.16 Mbit/s
95th percentile per-packet one-way delay: 59.524 ms
Loss rate: 0.38%

Run 10: Report of TCP BBR — Data Link

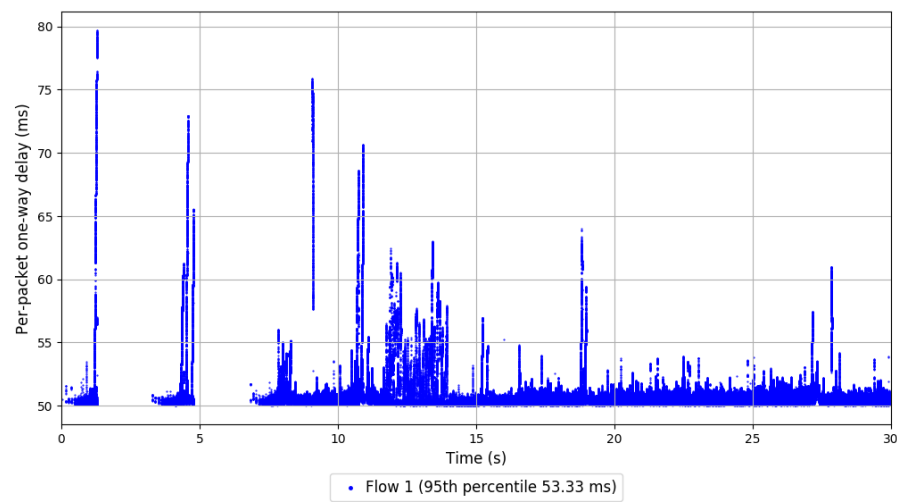
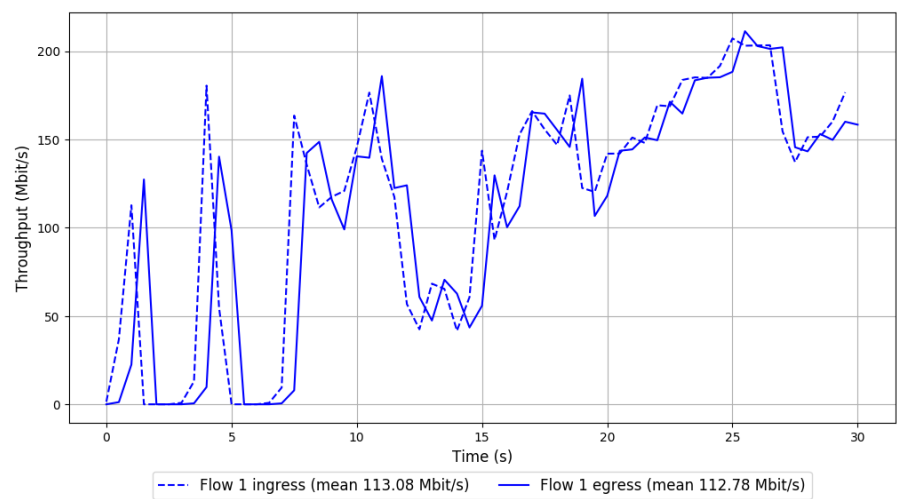


Run 1: Statistics of Copa

Start at: 2018-07-06 01:48:50
End at: 2018-07-06 01:49:20
Local clock offset: 0.039 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2018-07-06 05:30:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 112.78 Mbit/s
95th percentile per-packet one-way delay: 53.330 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 112.78 Mbit/s
95th percentile per-packet one-way delay: 53.330 ms
Loss rate: 0.59%

Run 1: Report of Copa — Data Link

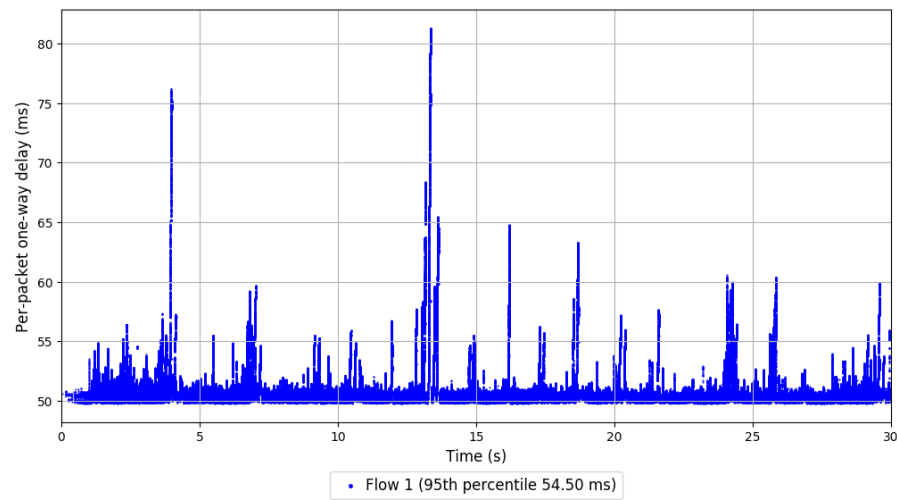
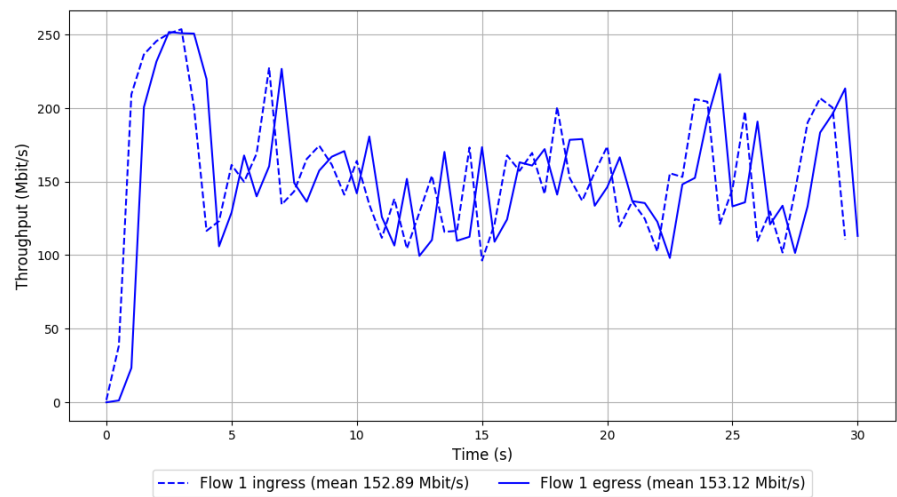


Run 2: Statistics of Copa

Start at: 2018-07-06 02:10:17
End at: 2018-07-06 02:10:47
Local clock offset: 0.034 ms
Remote clock offset: -0.042 ms

Below is generated by plot.py at 2018-07-06 05:30:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 153.12 Mbit/s
95th percentile per-packet one-way delay: 54.502 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 153.12 Mbit/s
95th percentile per-packet one-way delay: 54.502 ms
Loss rate: 0.17%

Run 2: Report of Copa — Data Link

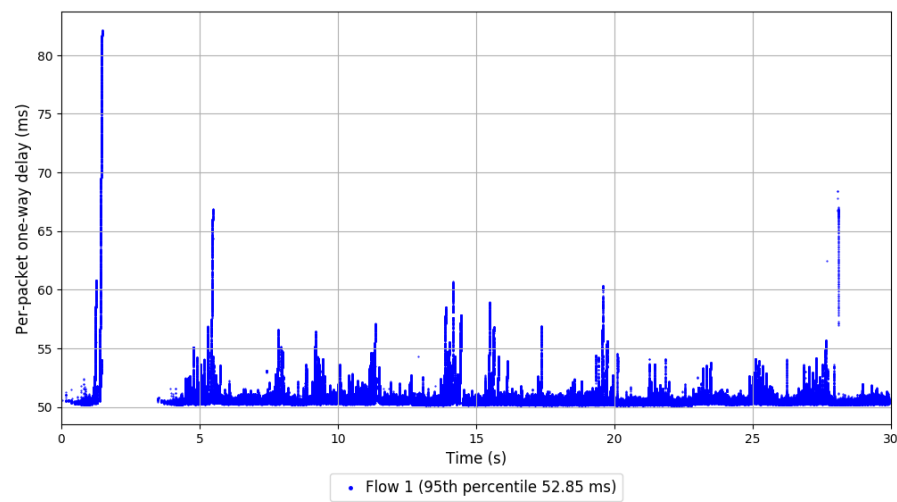
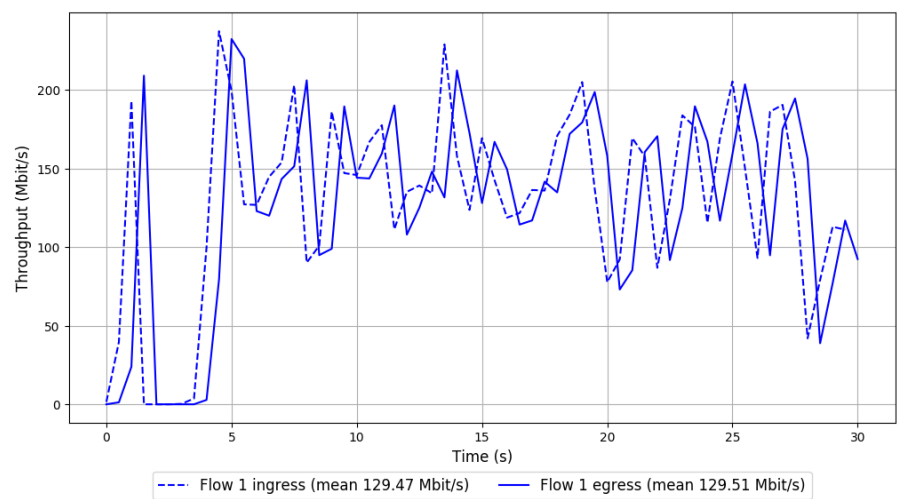


Run 3: Statistics of Copa

Start at: 2018-07-06 02:31:31
End at: 2018-07-06 02:32:01
Local clock offset: 0.061 ms
Remote clock offset: -0.156 ms

Below is generated by plot.py at 2018-07-06 05:30:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 129.51 Mbit/s
95th percentile per-packet one-way delay: 52.850 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 129.51 Mbit/s
95th percentile per-packet one-way delay: 52.850 ms
Loss rate: 0.30%

Run 3: Report of Copa — Data Link

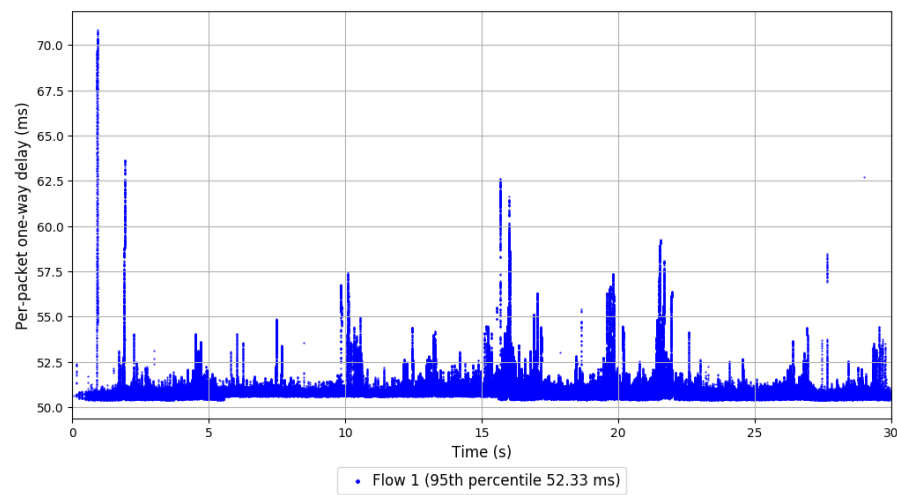
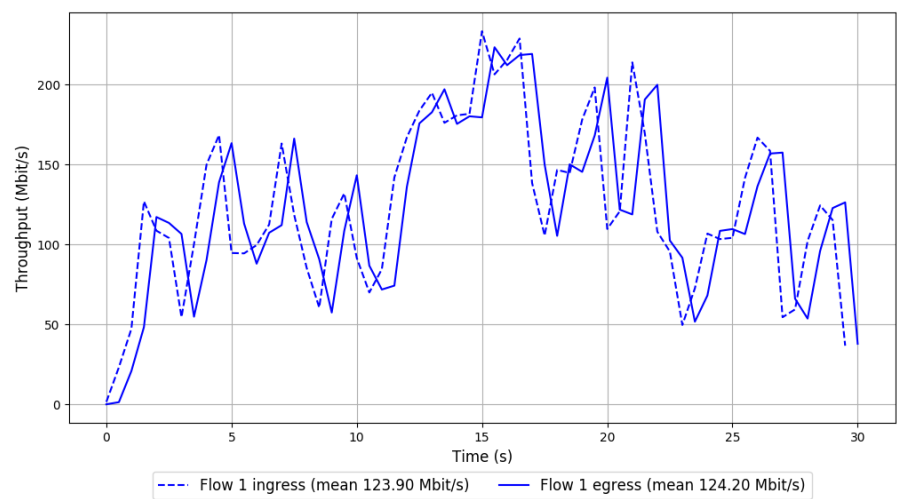


Run 4: Statistics of Copa

Start at: 2018-07-06 02:52:58
End at: 2018-07-06 02:53:28
Local clock offset: 0.502 ms
Remote clock offset: -0.291 ms

Below is generated by plot.py at 2018-07-06 05:30:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 124.20 Mbit/s
95th percentile per-packet one-way delay: 52.325 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 124.20 Mbit/s
95th percentile per-packet one-way delay: 52.325 ms
Loss rate: 0.10%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-07-06 03:14:39

End at: 2018-07-06 03:15:09

Local clock offset: -0.507 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-07-06 05:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 133.30 Mbit/s

95th percentile per-packet one-way delay: 53.230 ms

Loss rate: 0.31%

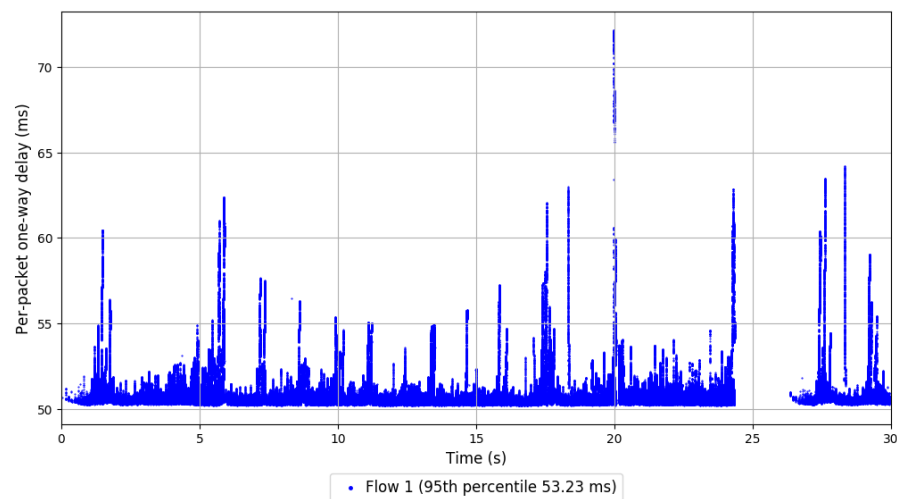
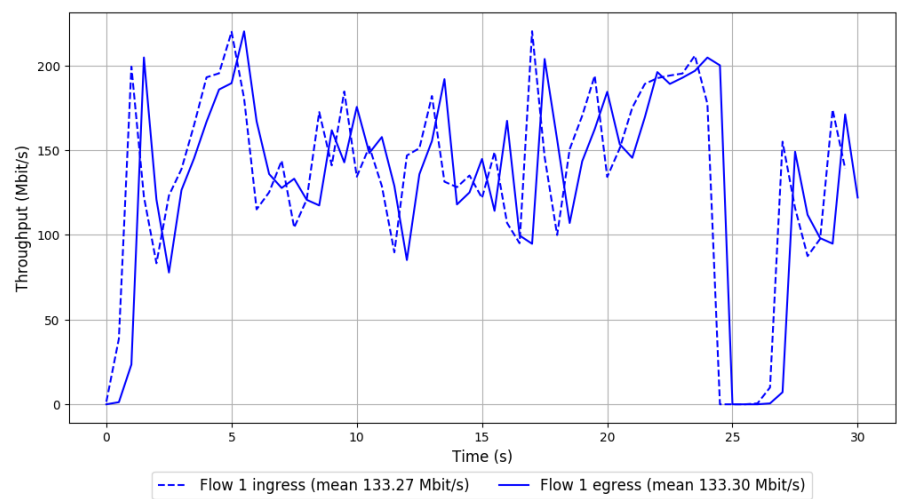
-- Flow 1:

Average throughput: 133.30 Mbit/s

95th percentile per-packet one-way delay: 53.230 ms

Loss rate: 0.31%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-06 03:36:19

End at: 2018-07-06 03:36:49

Local clock offset: -0.74 ms

Remote clock offset: 0.107 ms

Below is generated by plot.py at 2018-07-06 05:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 137.98 Mbit/s

95th percentile per-packet one-way delay: 52.903 ms

Loss rate: 0.28%

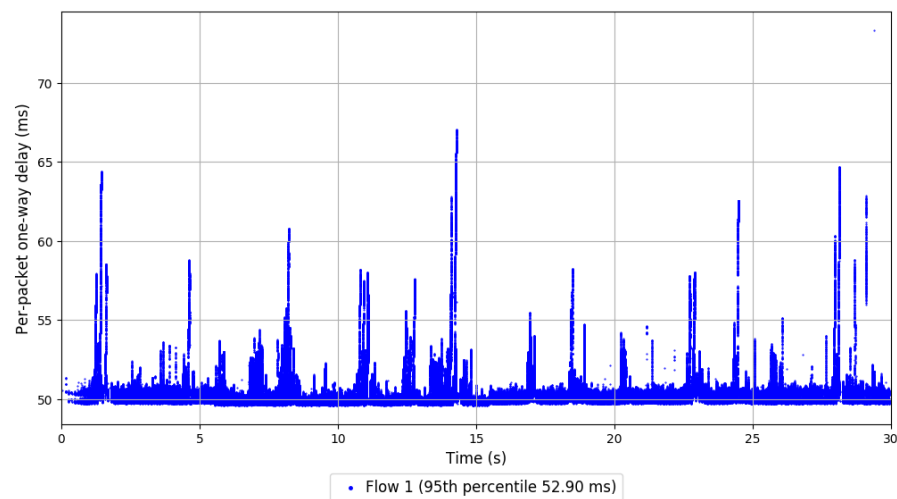
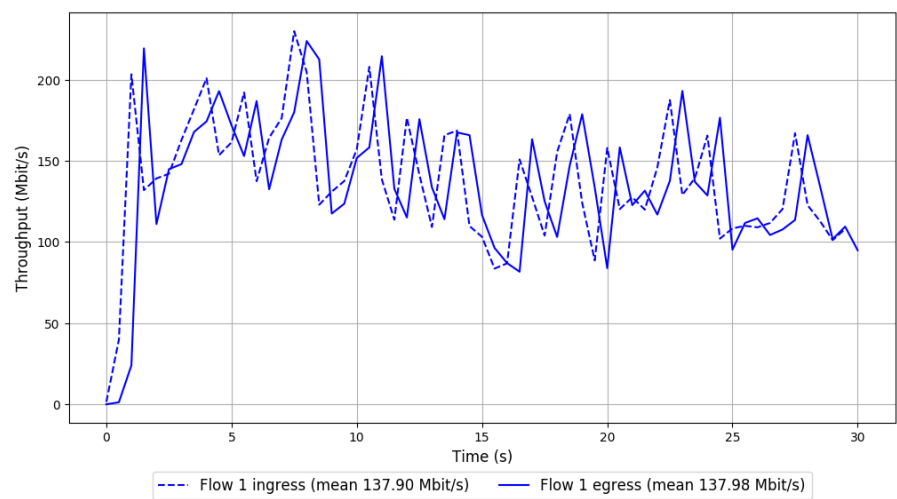
-- Flow 1:

Average throughput: 137.98 Mbit/s

95th percentile per-packet one-way delay: 52.903 ms

Loss rate: 0.28%

Run 6: Report of Copa — Data Link

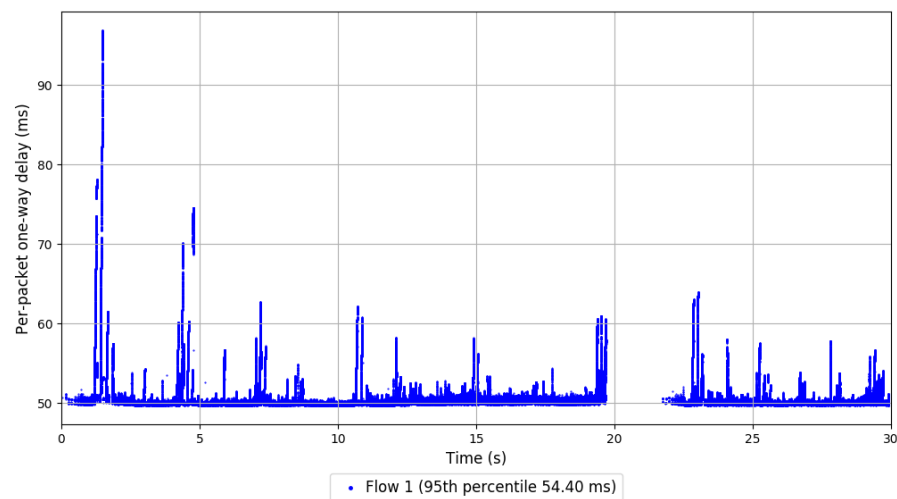
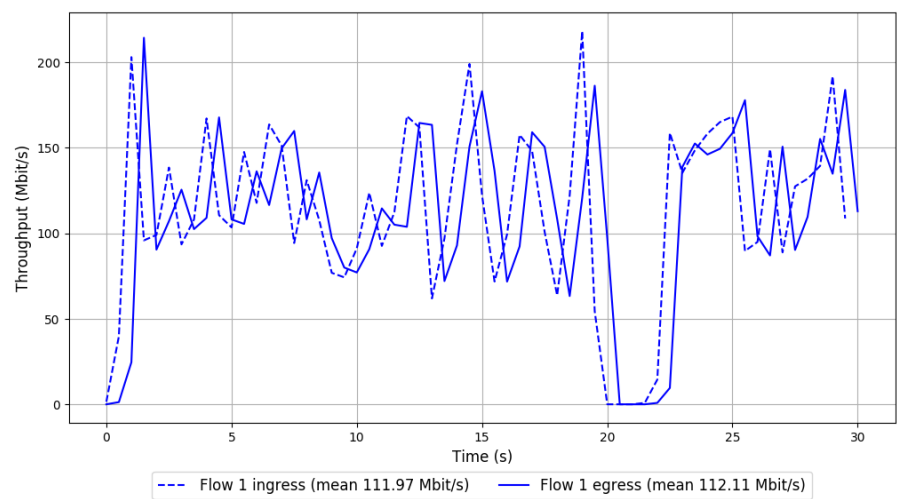


Run 7: Statistics of Copa

Start at: 2018-07-06 03:58:01
End at: 2018-07-06 03:58:31
Local clock offset: -0.891 ms
Remote clock offset: 0.098 ms

Below is generated by plot.py at 2018-07-06 05:33:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 112.11 Mbit/s
95th percentile per-packet one-way delay: 54.395 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 112.11 Mbit/s
95th percentile per-packet one-way delay: 54.395 ms
Loss rate: 0.22%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-06 04:19:31

End at: 2018-07-06 04:20:01

Local clock offset: -0.286 ms

Remote clock offset: 0.239 ms

Below is generated by plot.py at 2018-07-06 05:33:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.16 Mbit/s

95th percentile per-packet one-way delay: 57.896 ms

Loss rate: 0.94%

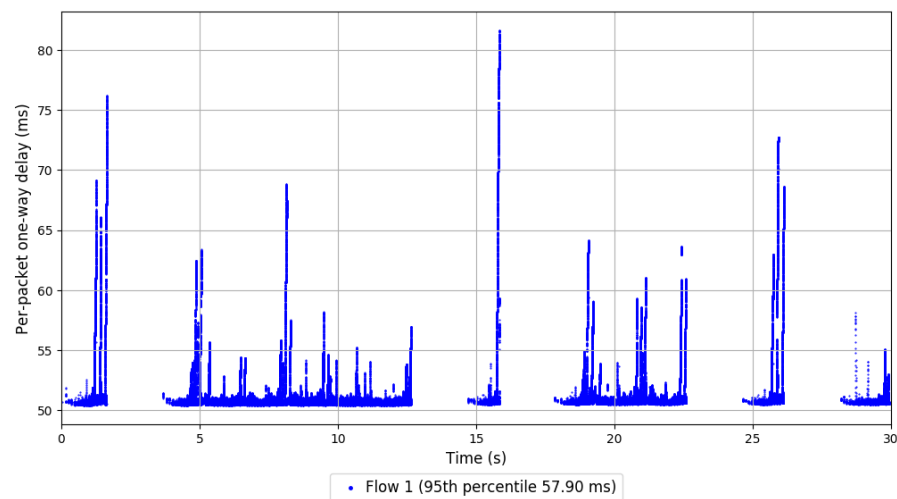
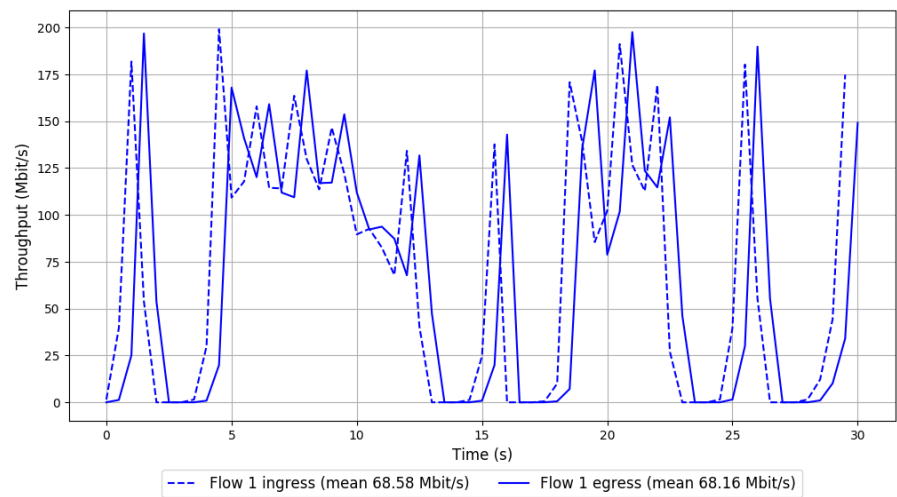
-- Flow 1:

Average throughput: 68.16 Mbit/s

95th percentile per-packet one-way delay: 57.896 ms

Loss rate: 0.94%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

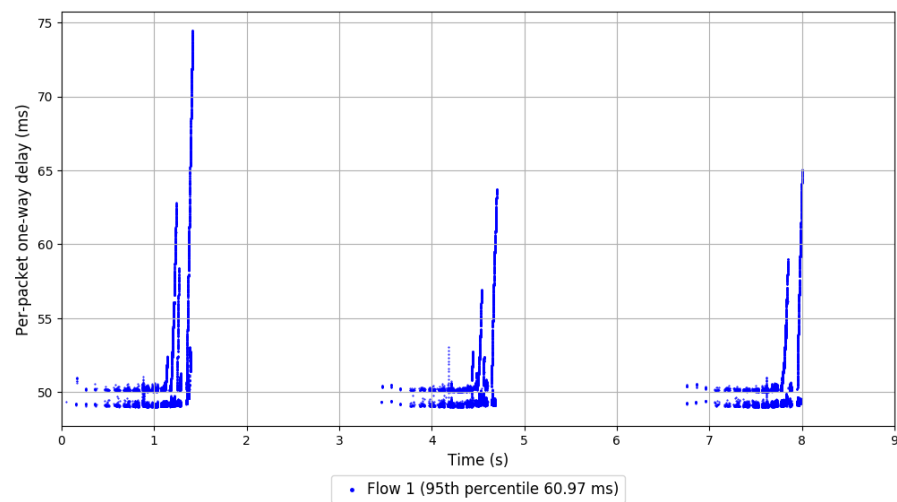
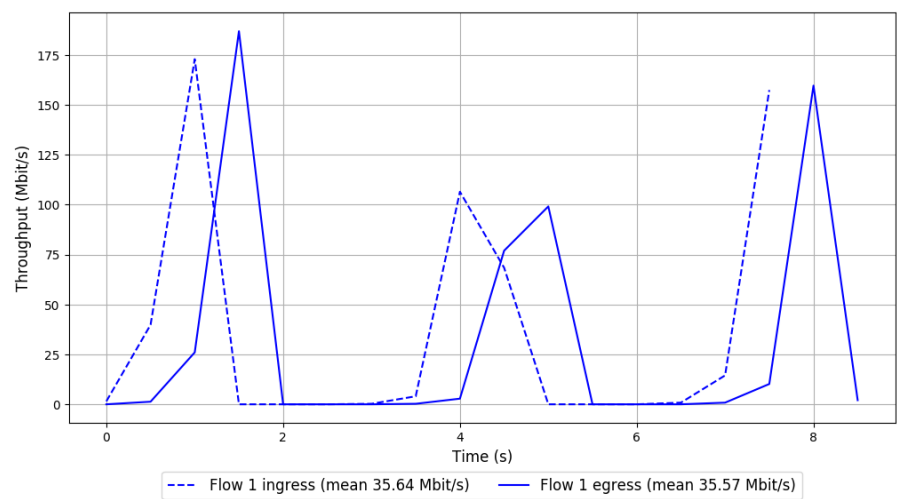
Start at: 2018-07-06 04:41:05

End at: 2018-07-06 04:41:35

Local clock offset: -0.074 ms

Remote clock offset: 0.245 ms

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-06 05:02:35

End at: 2018-07-06 05:03:05

Local clock offset: 0.364 ms

Remote clock offset: -0.017 ms

Below is generated by plot.py at 2018-07-06 05:33:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 127.77 Mbit/s

95th percentile per-packet one-way delay: 53.761 ms

Loss rate: 0.39%

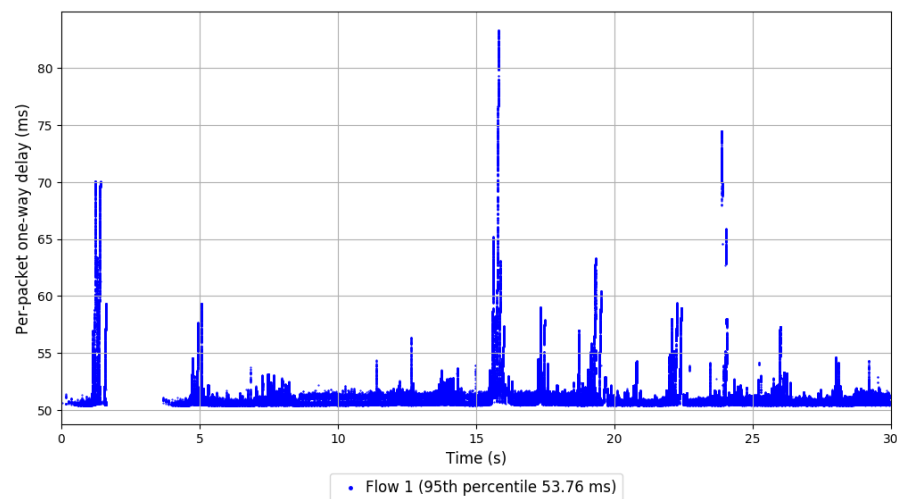
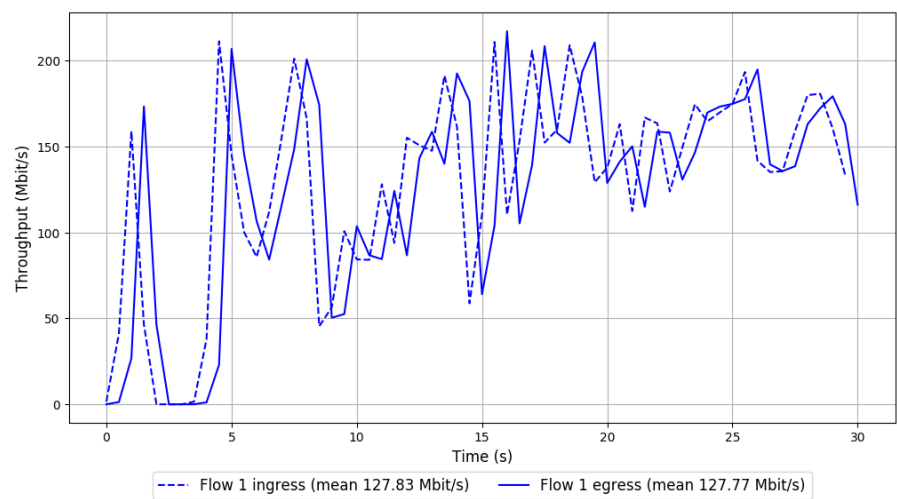
-- Flow 1:

Average throughput: 127.77 Mbit/s

95th percentile per-packet one-way delay: 53.761 ms

Loss rate: 0.39%

Run 10: Report of Copa — Data Link

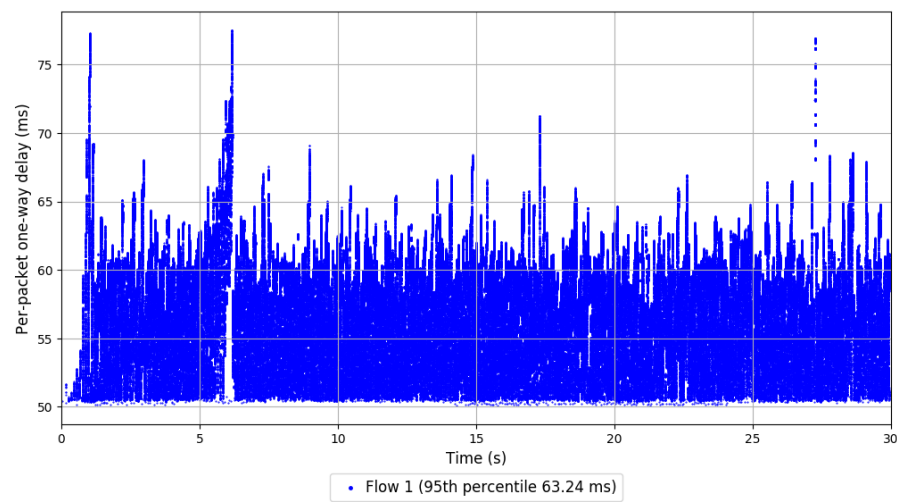
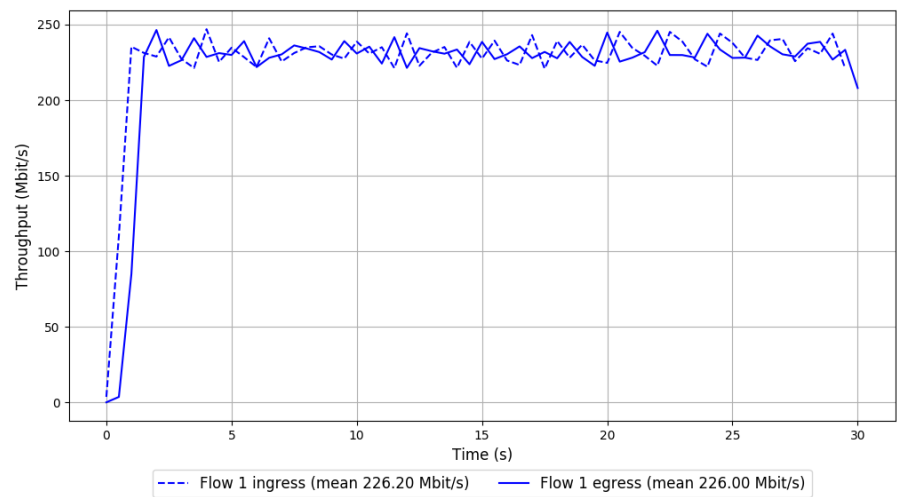


Run 1: Statistics of TCP Cubic

Start at: 2018-07-06 01:51:10
End at: 2018-07-06 01:51:40
Local clock offset: 0.015 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-07-06 05:33:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 226.00 Mbit/s
95th percentile per-packet one-way delay: 63.238 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 226.00 Mbit/s
95th percentile per-packet one-way delay: 63.238 ms
Loss rate: 0.35%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-07-06 02:12:44

End at: 2018-07-06 02:13:14

Local clock offset: 0.375 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-07-06 05:33:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.81 Mbit/s

95th percentile per-packet one-way delay: 62.740 ms

Loss rate: 0.35%

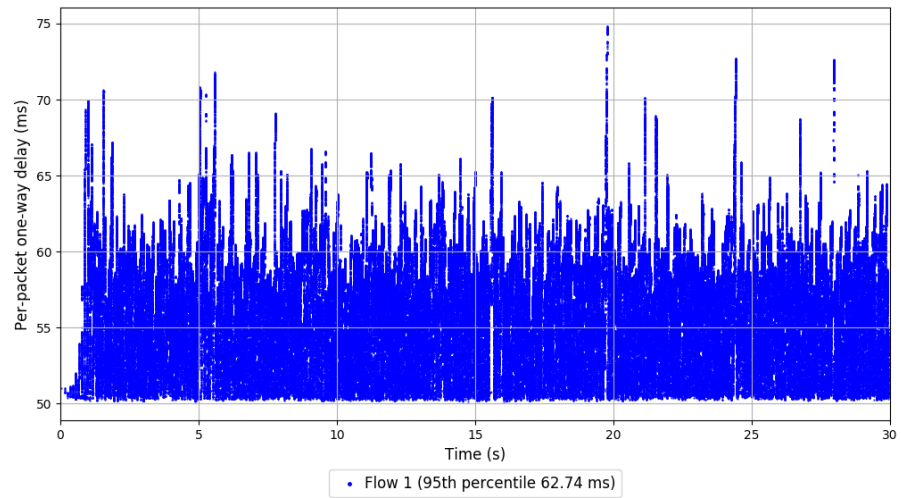
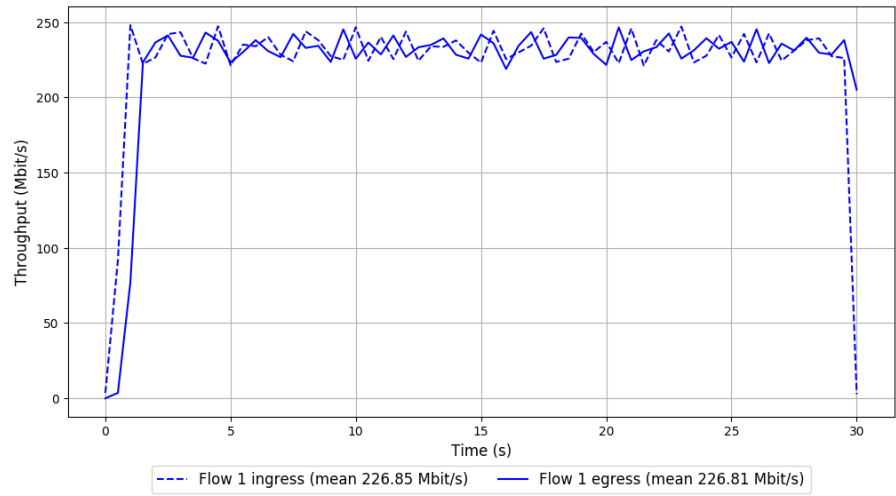
-- Flow 1:

Average throughput: 226.81 Mbit/s

95th percentile per-packet one-way delay: 62.740 ms

Loss rate: 0.35%

Run 2: Report of TCP Cubic — Data Link

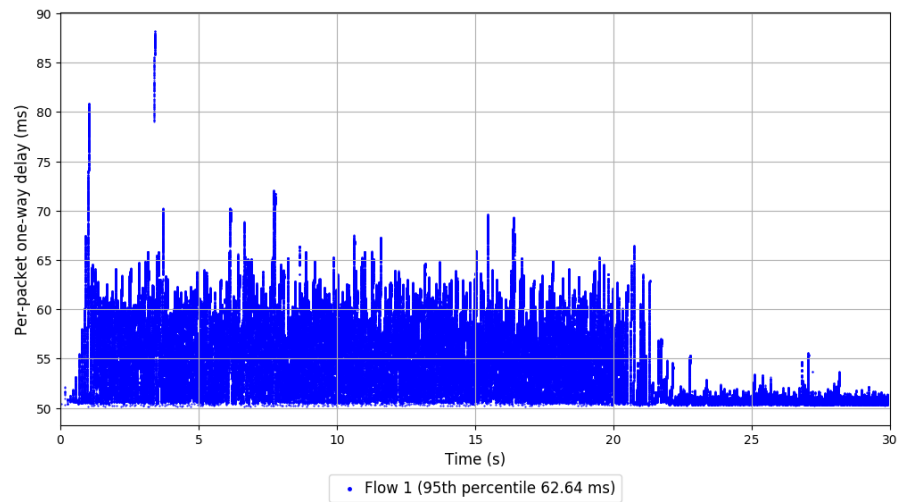
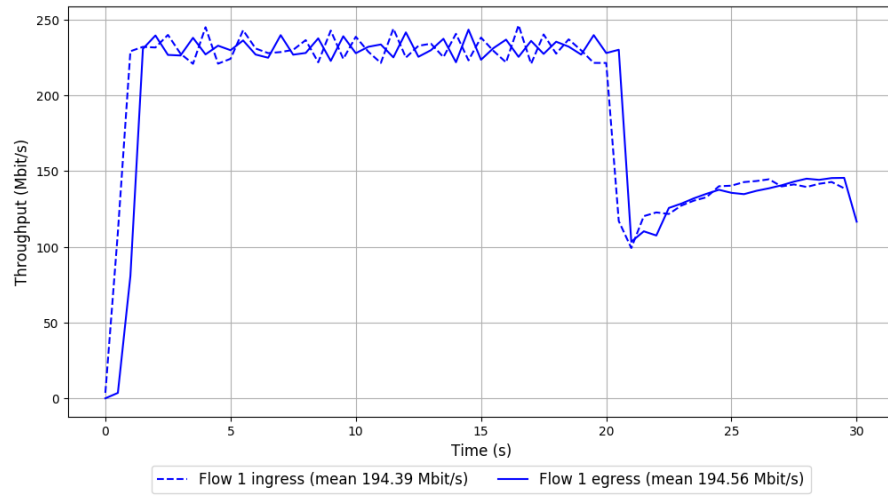


Run 3: Statistics of TCP Cubic

Start at: 2018-07-06 02:33:56
End at: 2018-07-06 02:34:26
Local clock offset: 0.102 ms
Remote clock offset: -0.222 ms

Below is generated by plot.py at 2018-07-06 05:33:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 194.56 Mbit/s
95th percentile per-packet one-way delay: 62.644 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 194.56 Mbit/s
95th percentile per-packet one-way delay: 62.644 ms
Loss rate: 0.25%

Run 3: Report of TCP Cubic — Data Link

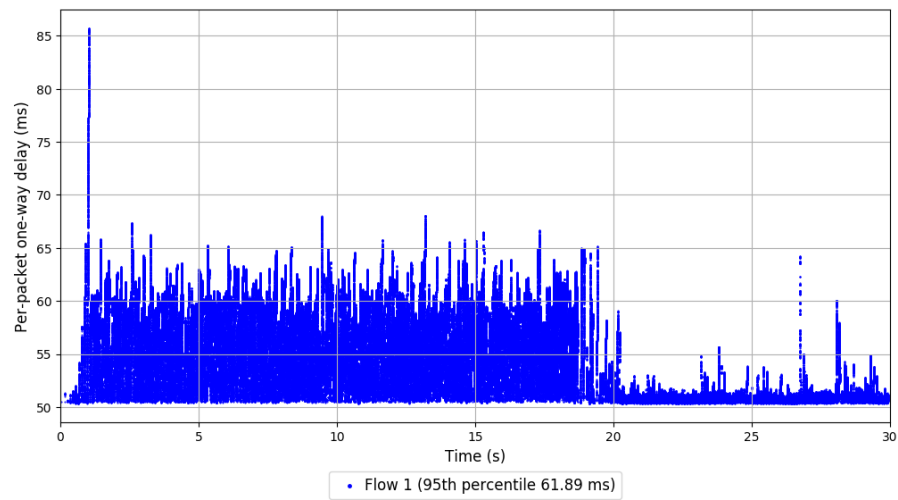
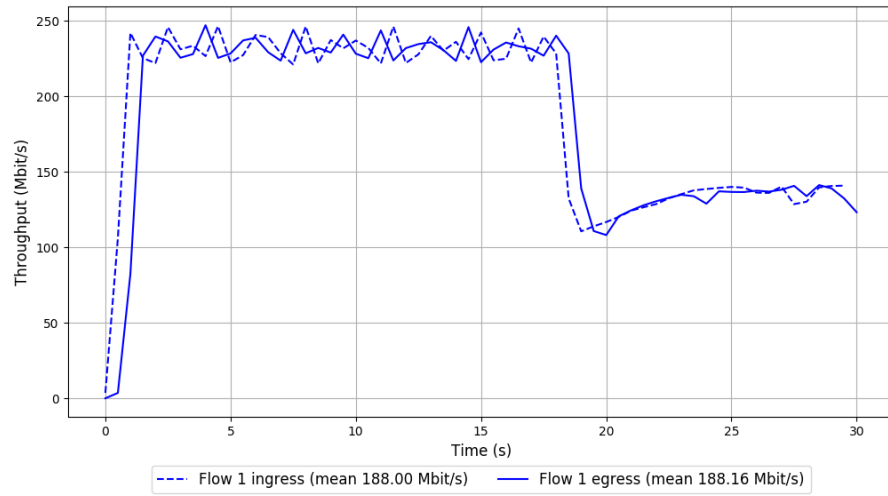


Run 4: Statistics of TCP Cubic

Start at: 2018-07-06 02:55:23
End at: 2018-07-06 02:55:53
Local clock offset: 0.031 ms
Remote clock offset: -0.249 ms

Below is generated by plot.py at 2018-07-06 05:33:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 188.16 Mbit/s
95th percentile per-packet one-way delay: 61.889 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 188.16 Mbit/s
95th percentile per-packet one-way delay: 61.889 ms
Loss rate: 0.25%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-06 03:17:04

End at: 2018-07-06 03:17:34

Local clock offset: -0.198 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2018-07-06 05:33:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.45 Mbit/s

95th percentile per-packet one-way delay: 63.932 ms

Loss rate: 0.28%

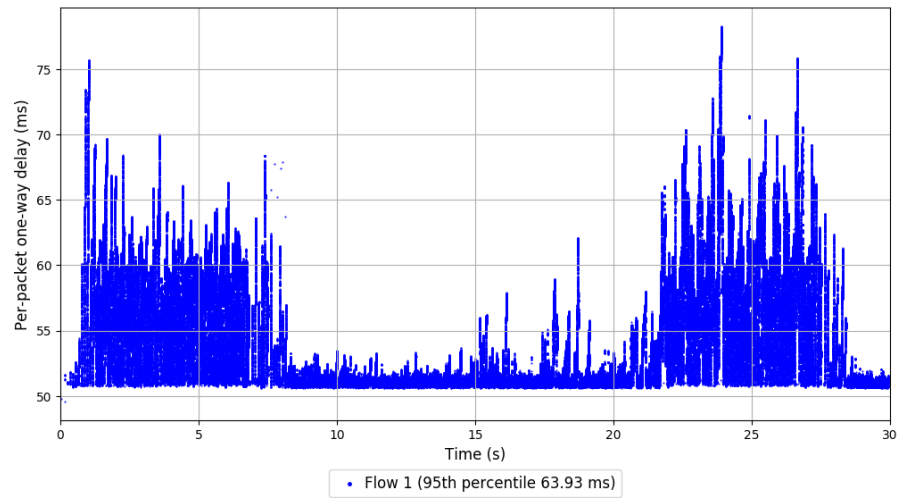
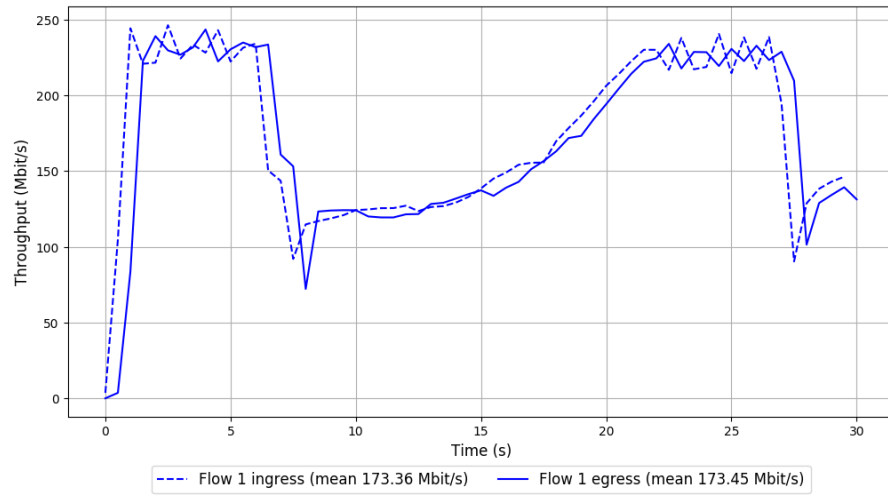
-- Flow 1:

Average throughput: 173.45 Mbit/s

95th percentile per-packet one-way delay: 63.932 ms

Loss rate: 0.28%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-07-06 03:38:44

End at: 2018-07-06 03:39:14

Local clock offset: -0.715 ms

Remote clock offset: 0.067 ms

Below is generated by plot.py at 2018-07-06 05:34:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.00 Mbit/s

95th percentile per-packet one-way delay: 61.725 ms

Loss rate: 0.45%

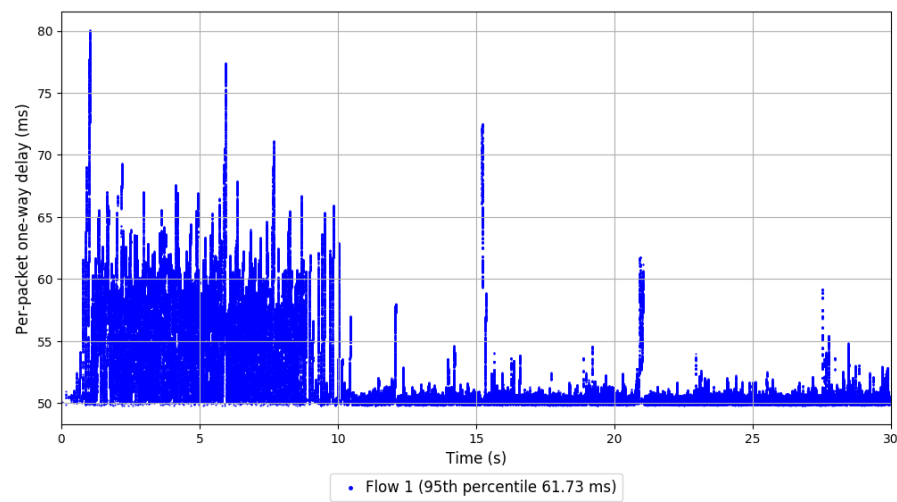
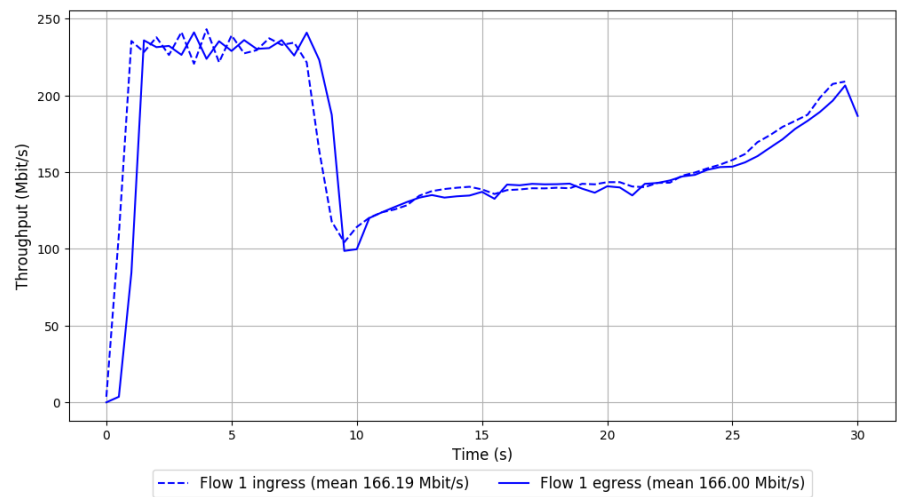
-- Flow 1:

Average throughput: 166.00 Mbit/s

95th percentile per-packet one-way delay: 61.725 ms

Loss rate: 0.45%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-06 04:00:25

End at: 2018-07-06 04:00:55

Local clock offset: -0.524 ms

Remote clock offset: 0.15 ms

Below is generated by plot.py at 2018-07-06 05:36:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.86 Mbit/s

95th percentile per-packet one-way delay: 62.738 ms

Loss rate: 0.20%

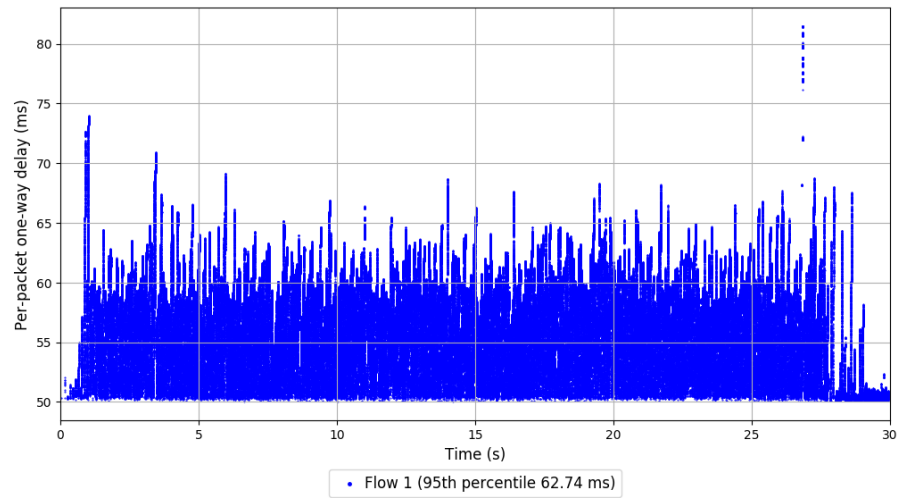
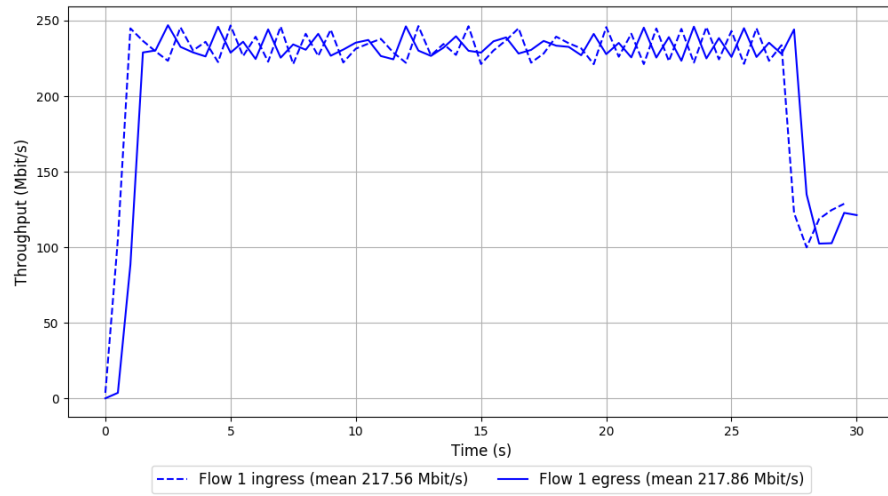
-- Flow 1:

Average throughput: 217.86 Mbit/s

95th percentile per-packet one-way delay: 62.738 ms

Loss rate: 0.20%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-06 04:21:50

End at: 2018-07-06 04:22:20

Local clock offset: -0.659 ms

Remote clock offset: 0.246 ms

Below is generated by plot.py at 2018-07-06 05:36:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.96 Mbit/s

95th percentile per-packet one-way delay: 62.752 ms

Loss rate: 0.14%

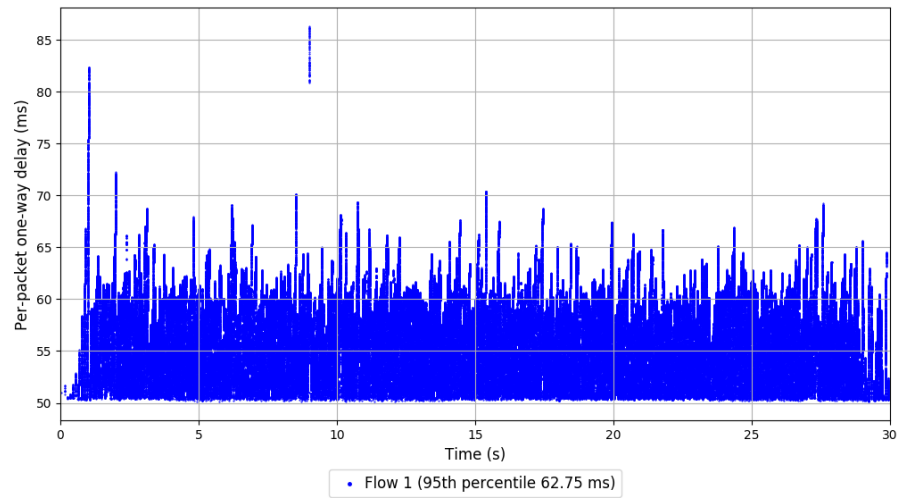
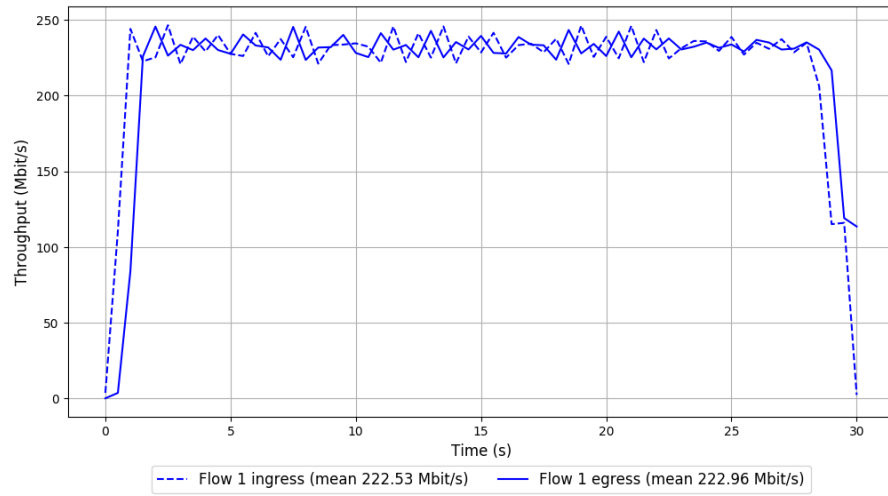
-- Flow 1:

Average throughput: 222.96 Mbit/s

95th percentile per-packet one-way delay: 62.752 ms

Loss rate: 0.14%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-06 04:43:20

End at: 2018-07-06 04:43:50

Local clock offset: -0.333 ms

Remote clock offset: 0.163 ms

Below is generated by plot.py at 2018-07-06 05:36:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.87 Mbit/s

95th percentile per-packet one-way delay: 62.357 ms

Loss rate: 0.12%

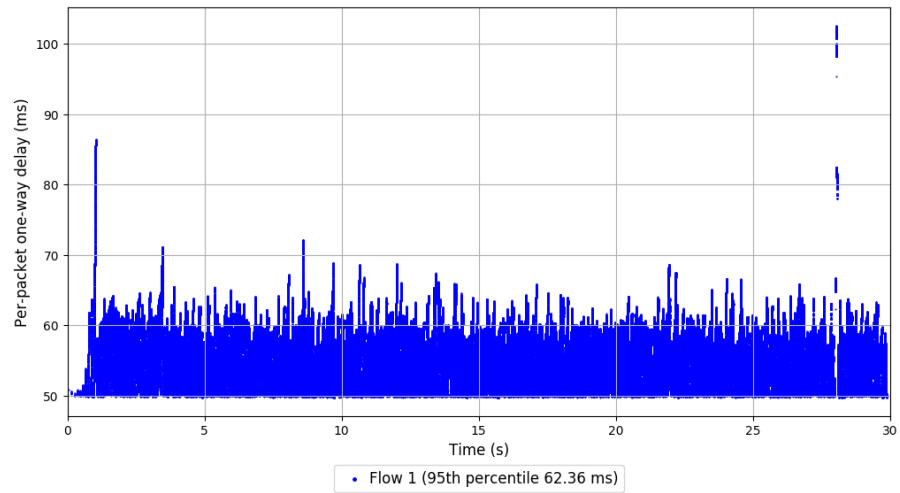
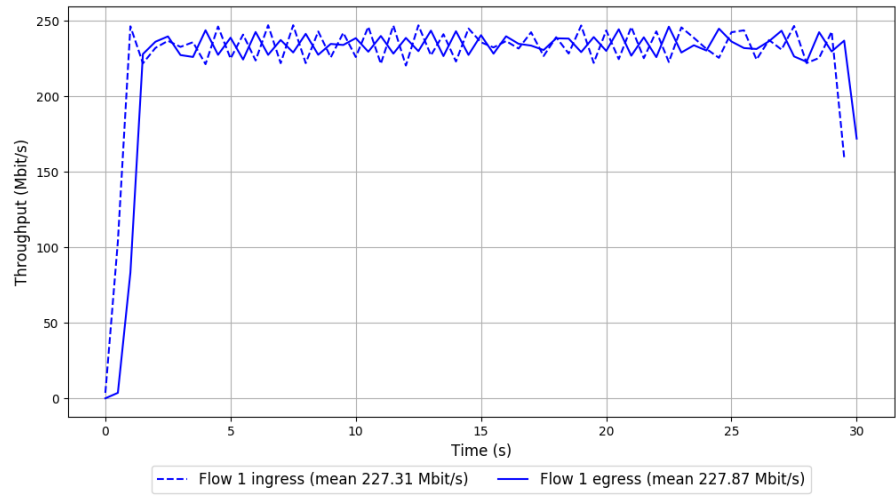
-- Flow 1:

Average throughput: 227.87 Mbit/s

95th percentile per-packet one-way delay: 62.357 ms

Loss rate: 0.12%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-06 05:05:00

End at: 2018-07-06 05:05:30

Local clock offset: 0.089 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-07-06 05:36:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 164.73 Mbit/s

95th percentile per-packet one-way delay: 61.190 ms

Loss rate: 0.54%

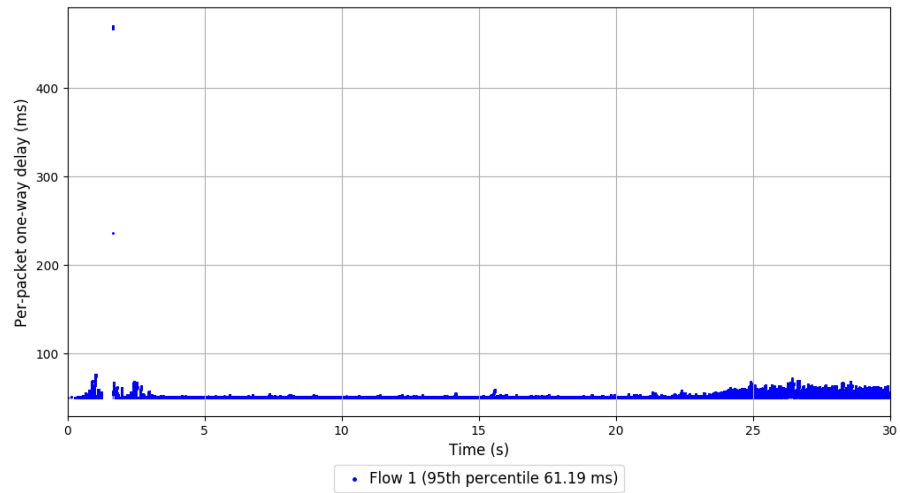
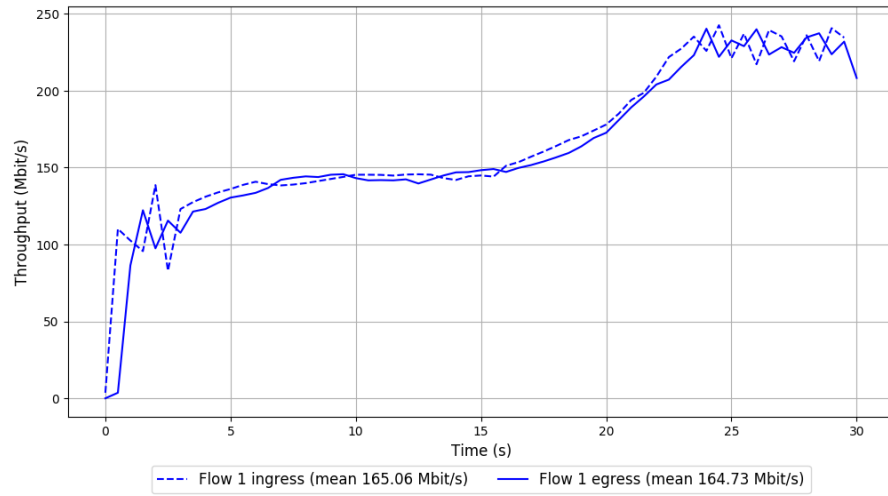
-- Flow 1:

Average throughput: 164.73 Mbit/s

95th percentile per-packet one-way delay: 61.190 ms

Loss rate: 0.54%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-07-06 01:42:02

End at: 2018-07-06 01:42:32

Local clock offset: 0.745 ms

Remote clock offset: 0.019 ms

Below is generated by plot.py at 2018-07-06 05:46:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 637.30 Mbit/s

95th percentile per-packet one-way delay: 234.272 ms

Loss rate: 1.12%

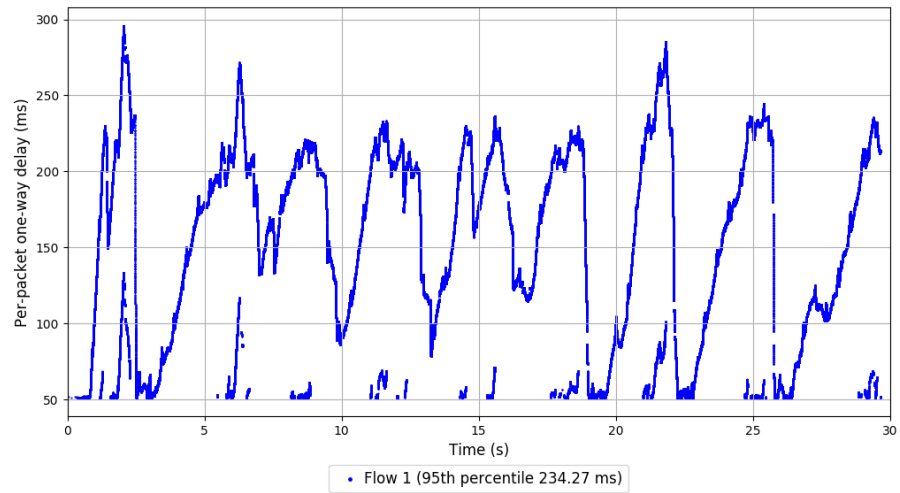
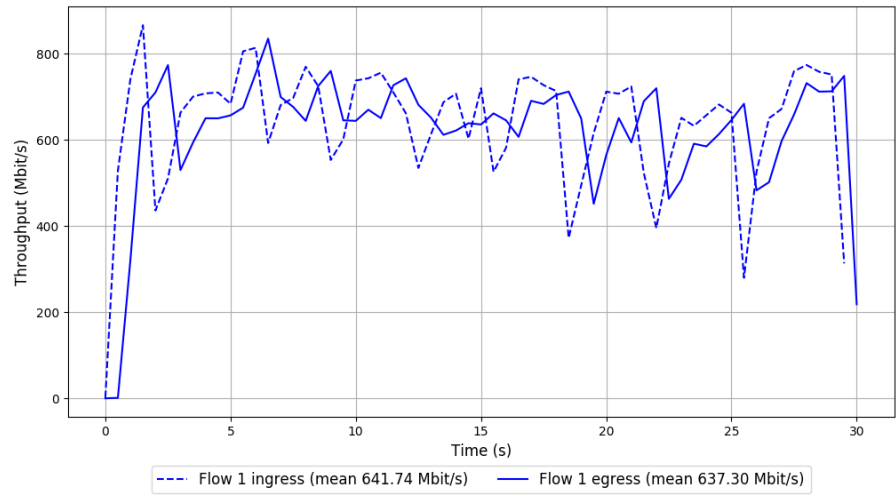
-- Flow 1:

Average throughput: 637.30 Mbit/s

95th percentile per-packet one-way delay: 234.272 ms

Loss rate: 1.12%

Run 1: Report of FillP — Data Link

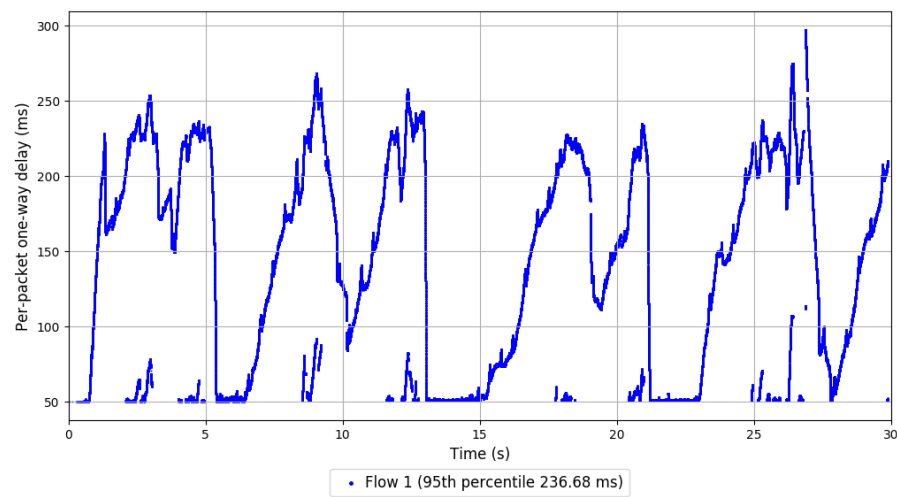
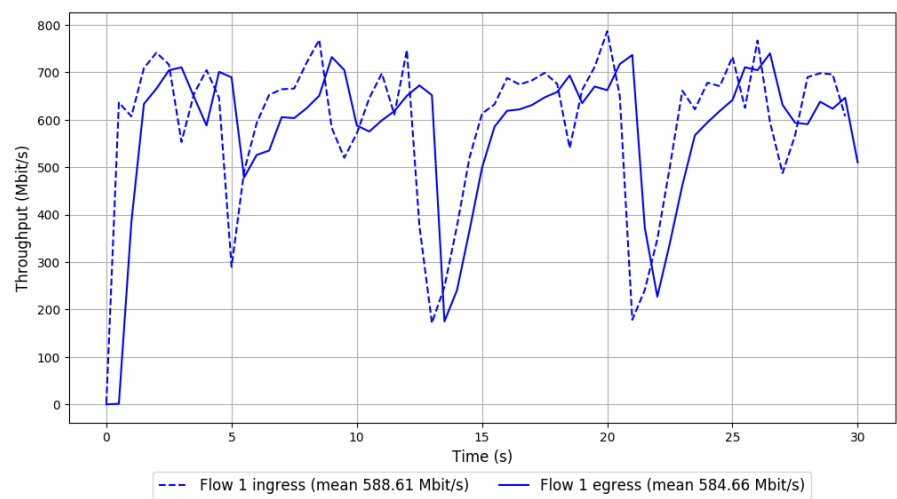


Run 2: Statistics of FillP

Start at: 2018-07-06 02:03:27
End at: 2018-07-06 02:03:57
Local clock offset: 0.383 ms
Remote clock offset: -0.072 ms

Below is generated by plot.py at 2018-07-06 05:46:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 584.66 Mbit/s
95th percentile per-packet one-way delay: 236.683 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 584.66 Mbit/s
95th percentile per-packet one-way delay: 236.683 ms
Loss rate: 1.01%

Run 2: Report of FillP — Data Link

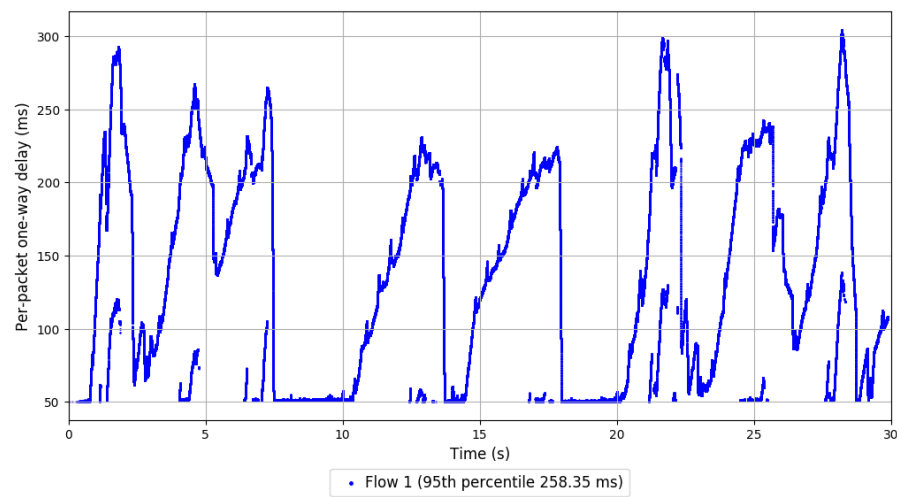
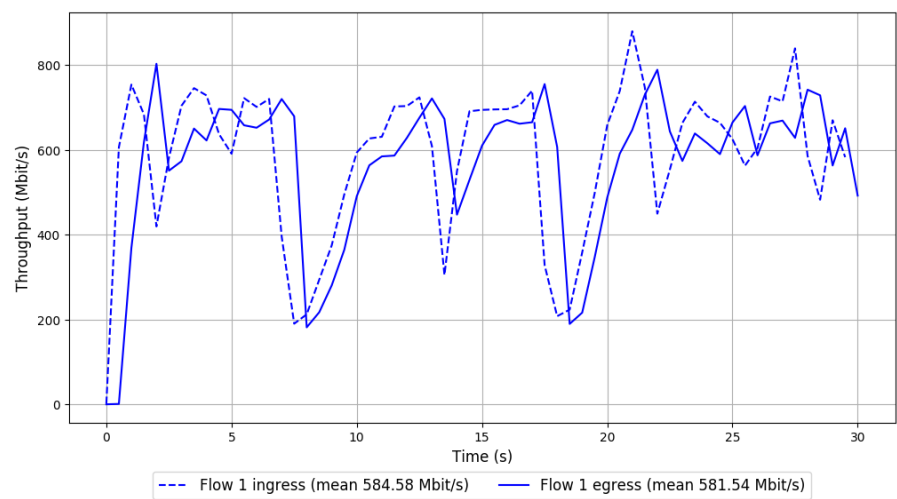


Run 3: Statistics of FillP

Start at: 2018-07-06 02:24:52
End at: 2018-07-06 02:25:22
Local clock offset: 0.422 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-07-06 05:46:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 581.54 Mbit/s
95th percentile per-packet one-way delay: 258.348 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 581.54 Mbit/s
95th percentile per-packet one-way delay: 258.348 ms
Loss rate: 0.85%

Run 3: Report of FillP — Data Link

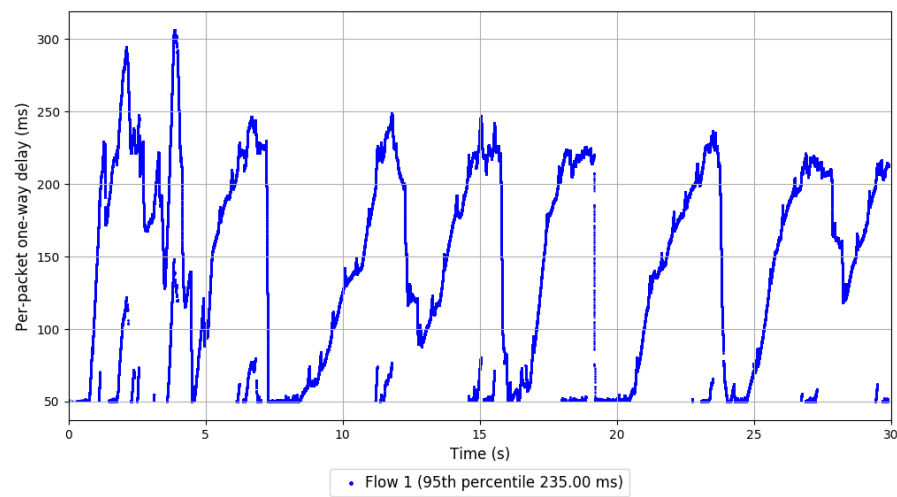
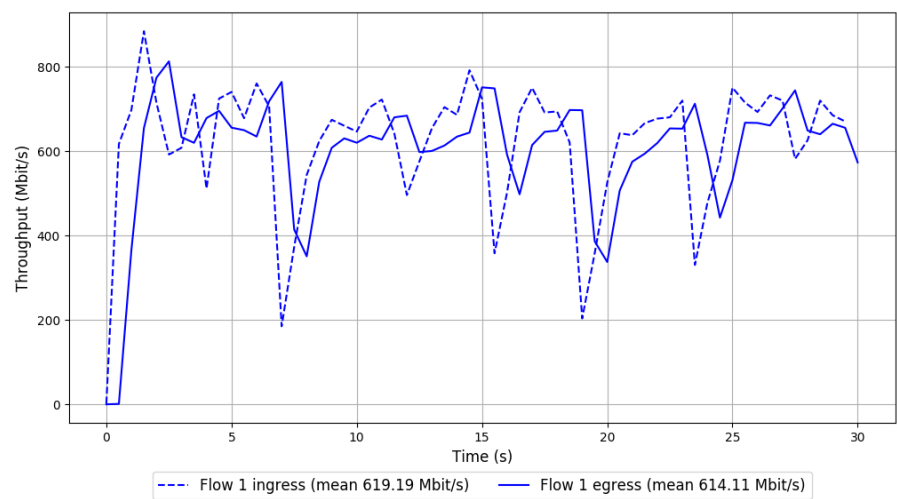


Run 4: Statistics of FillP

Start at: 2018-07-06 02:46:12
End at: 2018-07-06 02:46:42
Local clock offset: 0.094 ms
Remote clock offset: -0.264 ms

Below is generated by plot.py at 2018-07-06 05:47:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 614.11 Mbit/s
95th percentile per-packet one-way delay: 234.996 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 614.11 Mbit/s
95th percentile per-packet one-way delay: 234.996 ms
Loss rate: 1.16%

Run 4: Report of FillP — Data Link

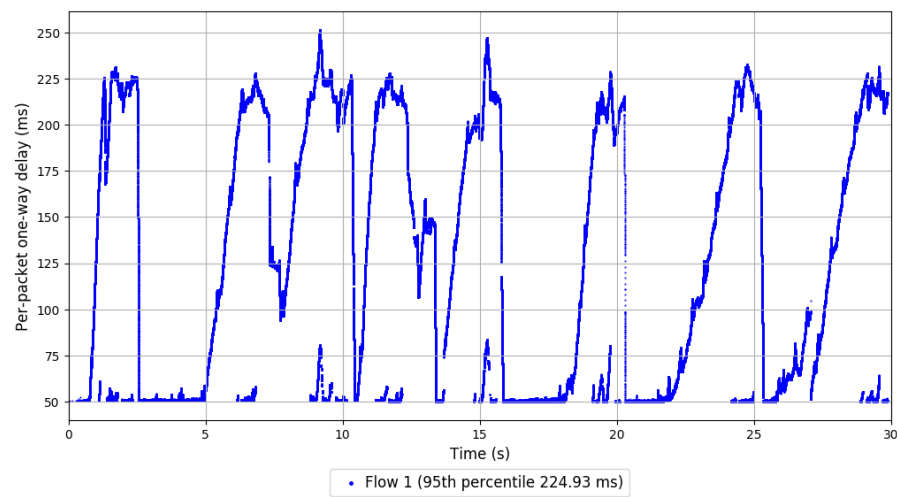
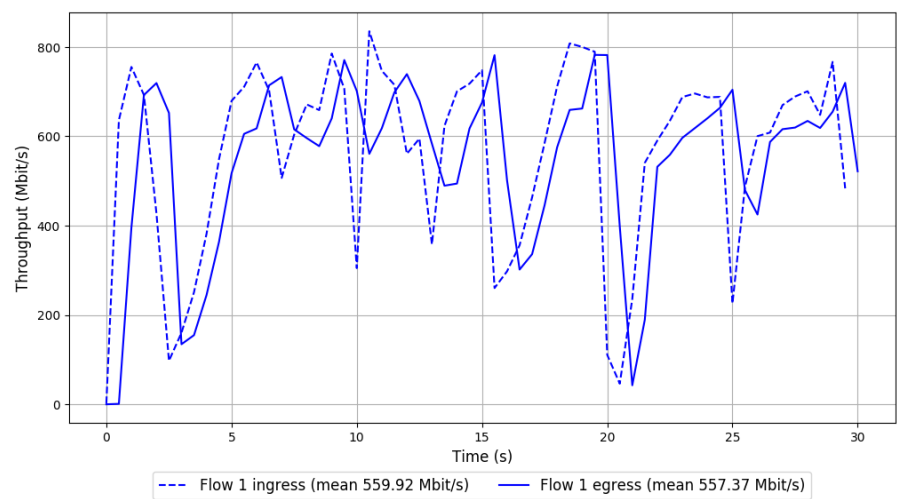


Run 5: Statistics of FillP

Start at: 2018-07-06 03:07:52
End at: 2018-07-06 03:08:22
Local clock offset: -0.443 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-07-06 05:47:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 557.37 Mbit/s
95th percentile per-packet one-way delay: 224.928 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 557.37 Mbit/s
95th percentile per-packet one-way delay: 224.928 ms
Loss rate: 0.80%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-06 03:29:25

End at: 2018-07-06 03:29:55

Local clock offset: -0.678 ms

Remote clock offset: 0.069 ms

Below is generated by plot.py at 2018-07-06 05:49:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 636.85 Mbit/s

95th percentile per-packet one-way delay: 227.597 ms

Loss rate: 0.85%

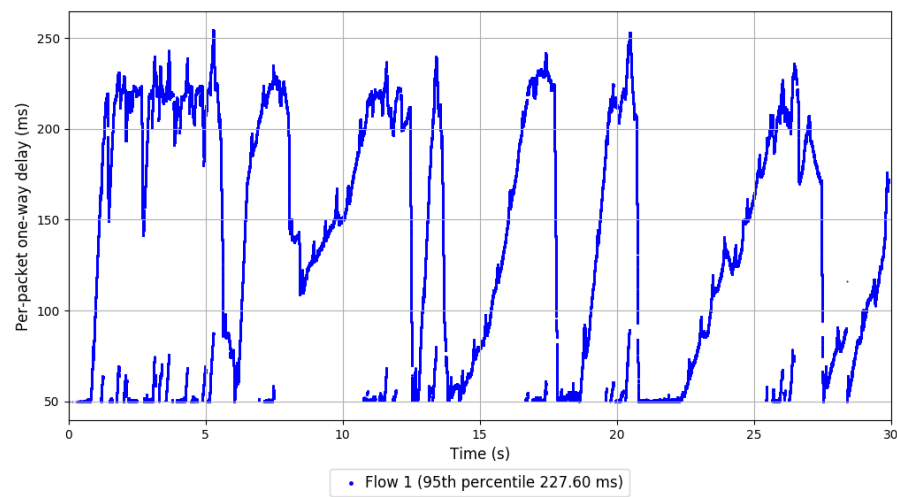
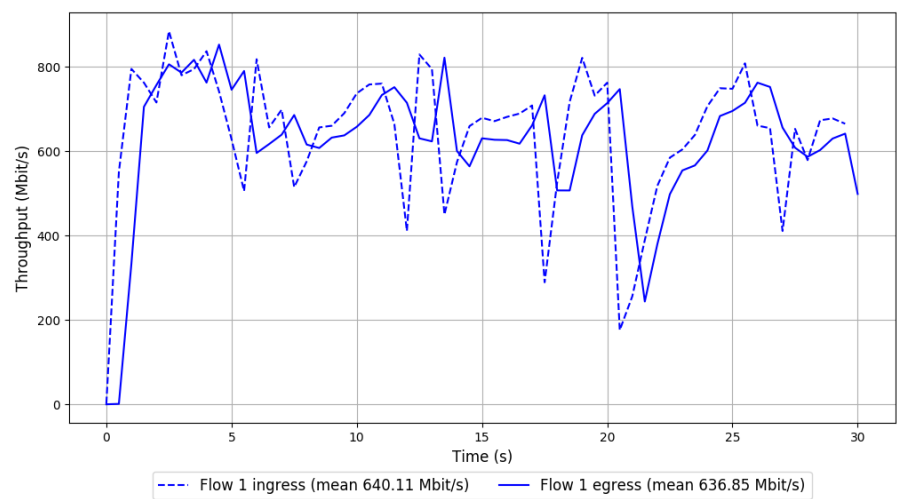
-- Flow 1:

Average throughput: 636.85 Mbit/s

95th percentile per-packet one-way delay: 227.597 ms

Loss rate: 0.85%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-07-06 03:51:09

End at: 2018-07-06 03:51:39

Local clock offset: -0.469 ms

Remote clock offset: 0.063 ms

Below is generated by plot.py at 2018-07-06 05:49:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 616.75 Mbit/s

95th percentile per-packet one-way delay: 228.430 ms

Loss rate: 0.67%

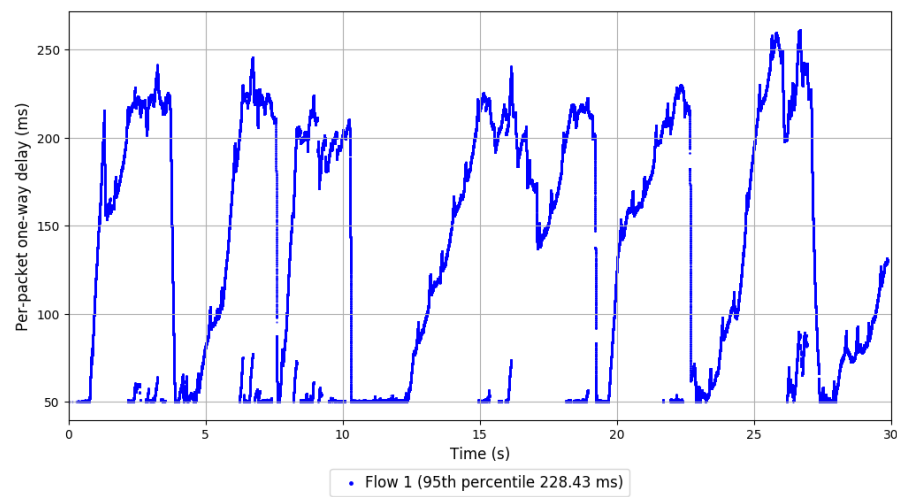
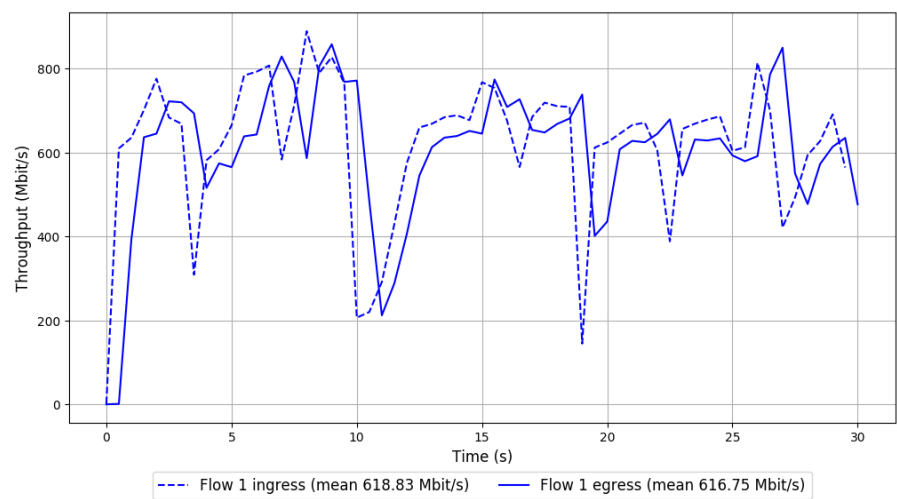
-- Flow 1:

Average throughput: 616.75 Mbit/s

95th percentile per-packet one-way delay: 228.430 ms

Loss rate: 0.67%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-06 04:12:42

End at: 2018-07-06 04:13:12

Local clock offset: -0.633 ms

Remote clock offset: 0.186 ms

Below is generated by plot.py at 2018-07-06 05:49:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 475.96 Mbit/s

95th percentile per-packet one-way delay: 231.909 ms

Loss rate: 0.79%

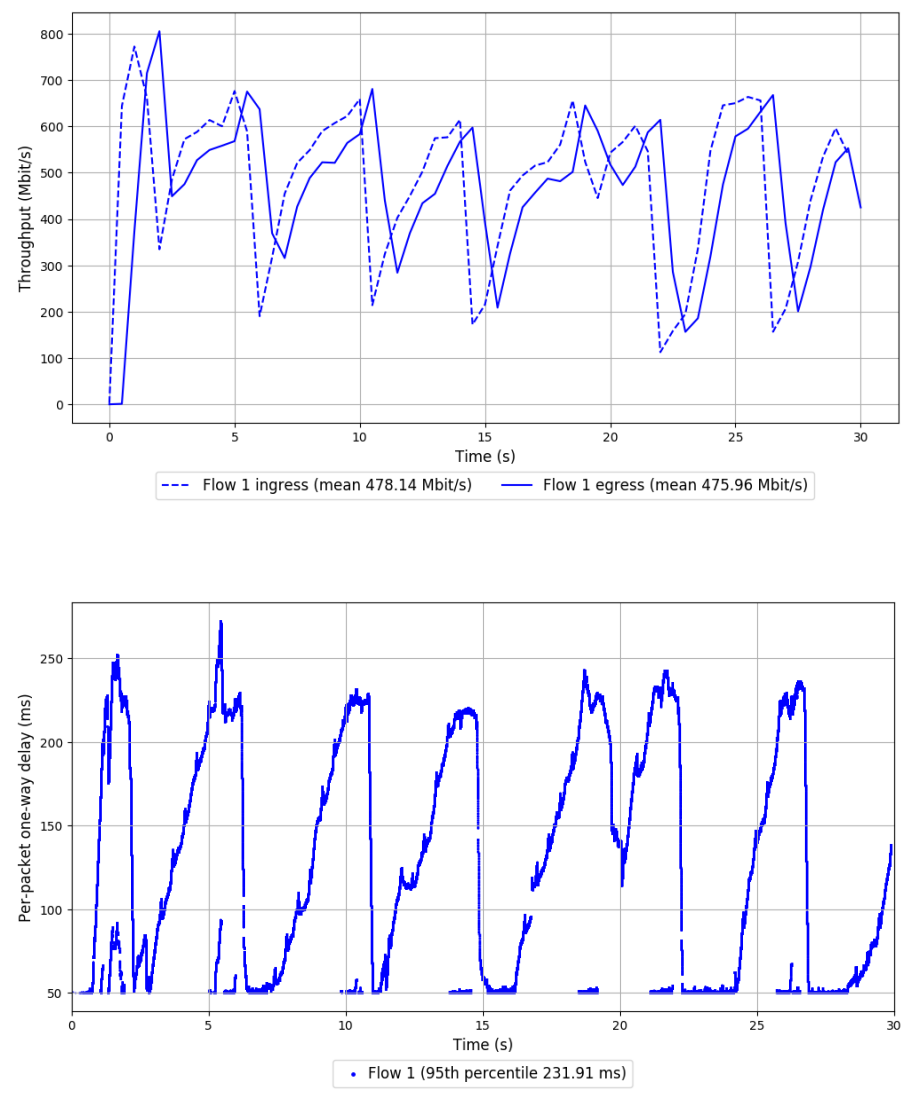
-- Flow 1:

Average throughput: 475.96 Mbit/s

95th percentile per-packet one-way delay: 231.909 ms

Loss rate: 0.79%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-06 04:34:13

End at: 2018-07-06 04:34:43

Local clock offset: -1.132 ms

Remote clock offset: 0.332 ms

Below is generated by plot.py at 2018-07-06 05:57:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 626.13 Mbit/s

95th percentile per-packet one-way delay: 248.538 ms

Loss rate: 0.98%

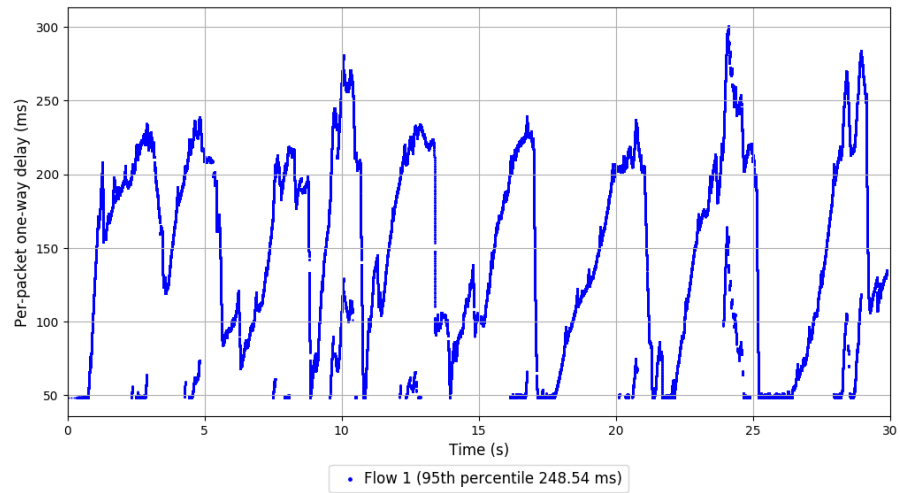
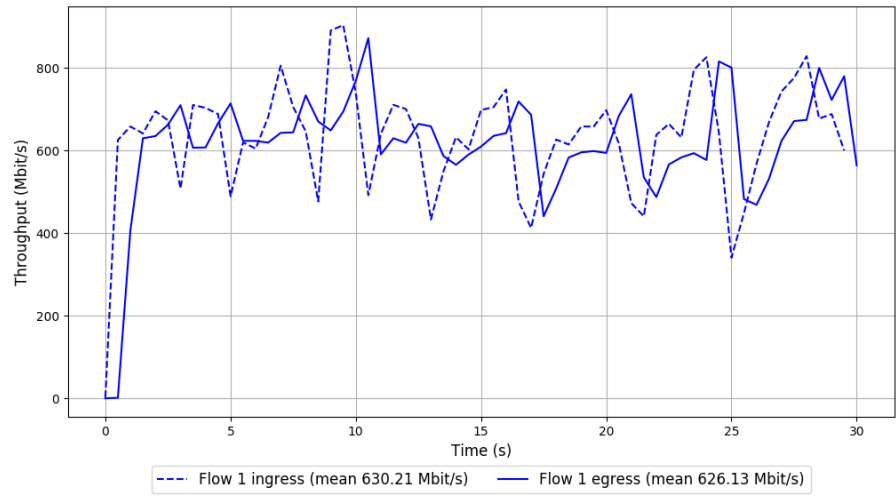
-- Flow 1:

Average throughput: 626.13 Mbit/s

95th percentile per-packet one-way delay: 248.538 ms

Loss rate: 0.98%

Run 9: Report of FillP — Data Link

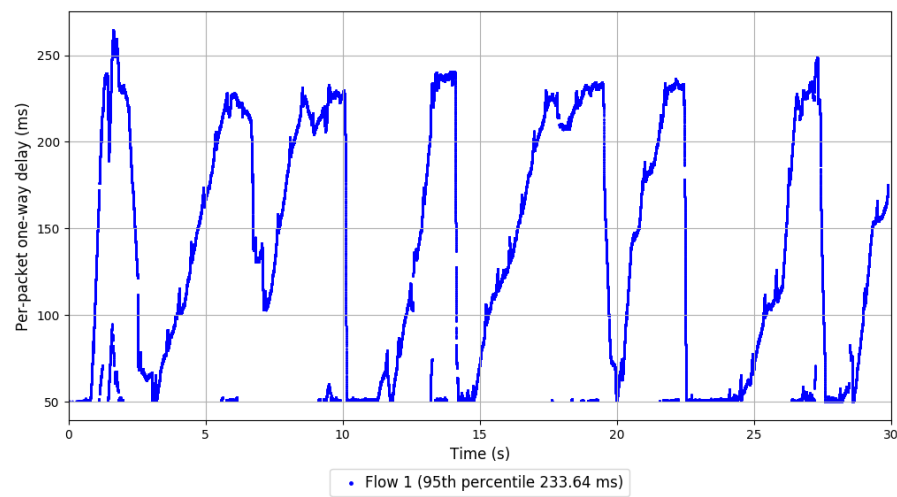
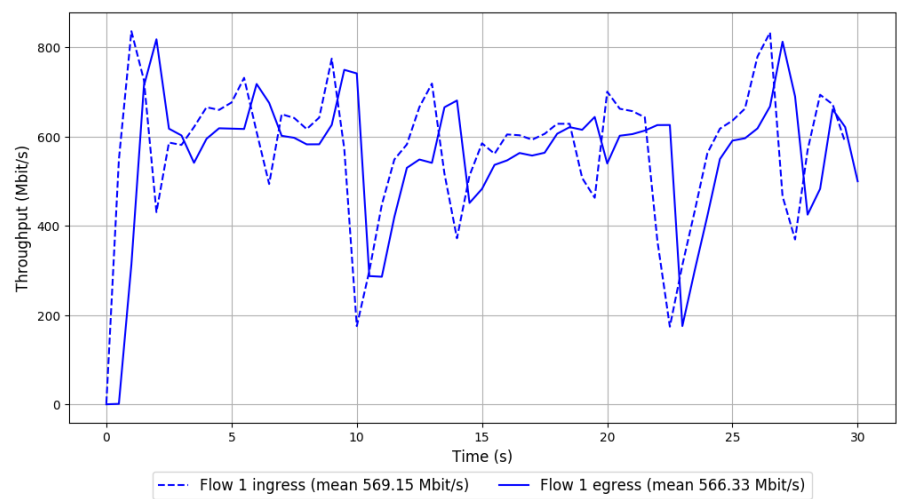


Run 10: Statistics of FillP

Start at: 2018-07-06 04:55:47
End at: 2018-07-06 04:56:17
Local clock offset: 0.278 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2018-07-06 05:57:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 566.33 Mbit/s
95th percentile per-packet one-way delay: 233.637 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 566.33 Mbit/s
95th percentile per-packet one-way delay: 233.637 ms
Loss rate: 0.83%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-07-06 01:56:05

End at: 2018-07-06 01:56:35

Local clock offset: 0.351 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2018-07-06 05:57:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 575.75 Mbit/s

95th percentile per-packet one-way delay: 273.609 ms

Loss rate: 3.93%

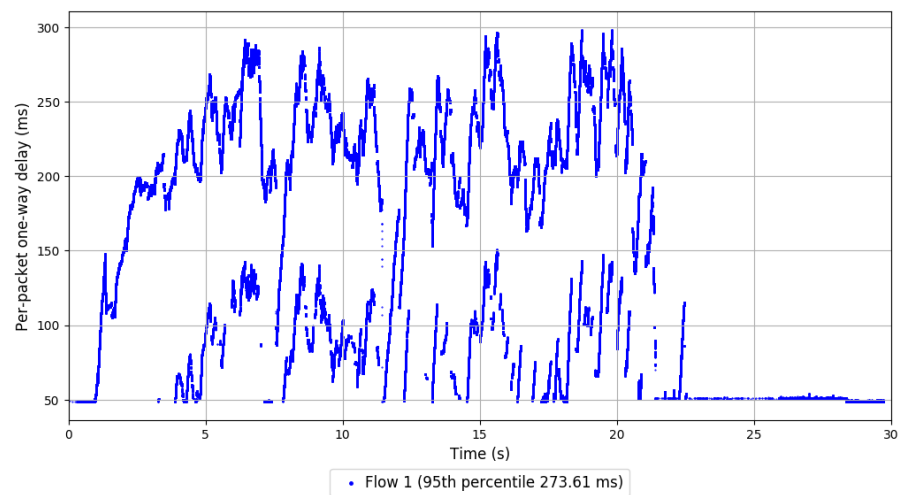
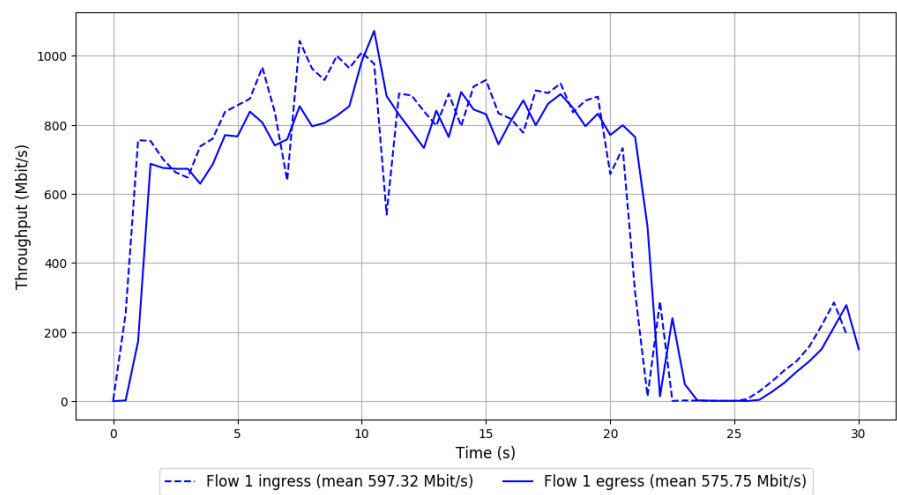
-- Flow 1:

Average throughput: 575.75 Mbit/s

95th percentile per-packet one-way delay: 273.609 ms

Loss rate: 3.93%

Run 1: Report of FillP-Sheep — Data Link

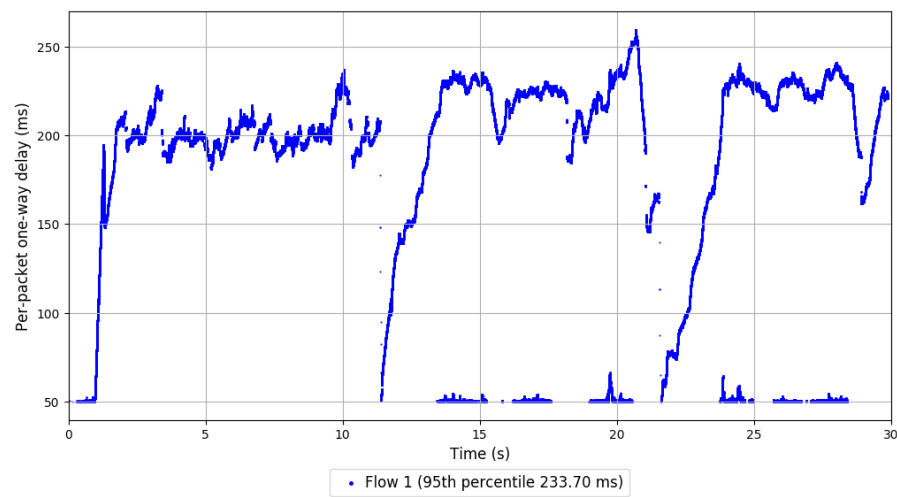
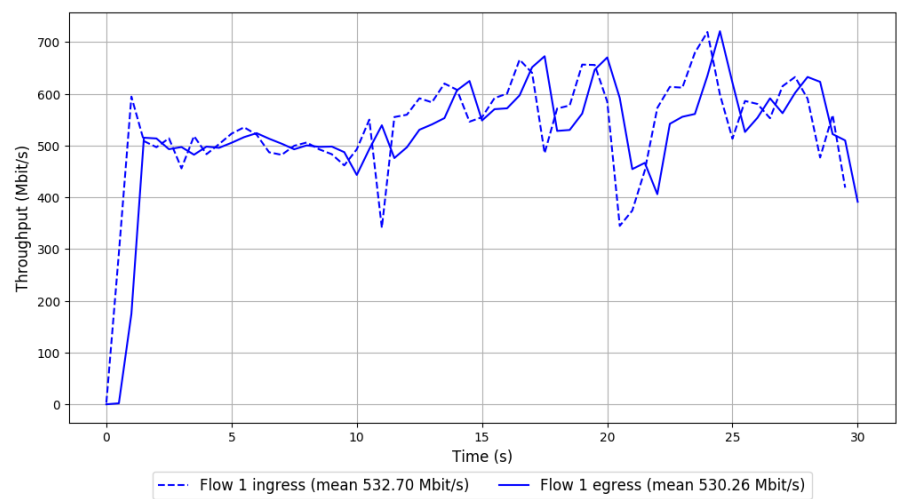


Run 2: Statistics of FillP-Sheep

Start at: 2018-07-06 02:17:34
End at: 2018-07-06 02:18:04
Local clock offset: 0.07 ms
Remote clock offset: -0.019 ms

Below is generated by plot.py at 2018-07-06 05:57:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 530.26 Mbit/s
95th percentile per-packet one-way delay: 233.704 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 530.26 Mbit/s
95th percentile per-packet one-way delay: 233.704 ms
Loss rate: 0.79%

Run 2: Report of FillP-Sheep — Data Link

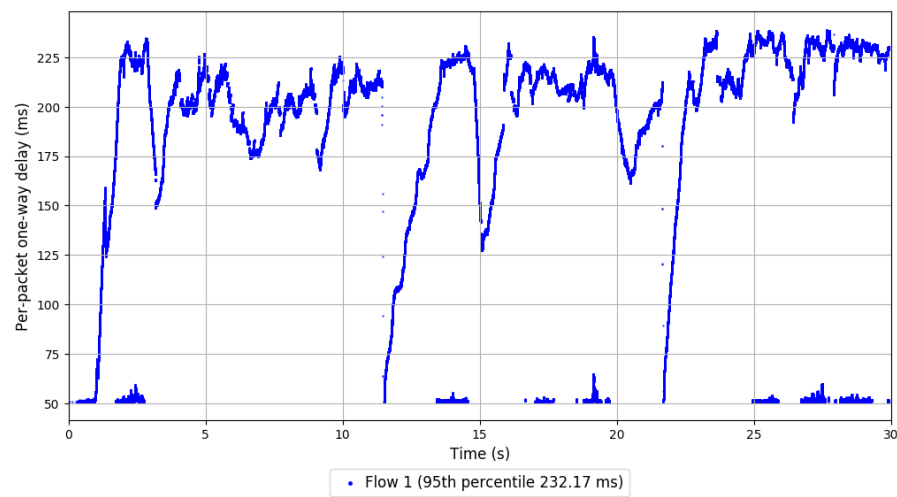
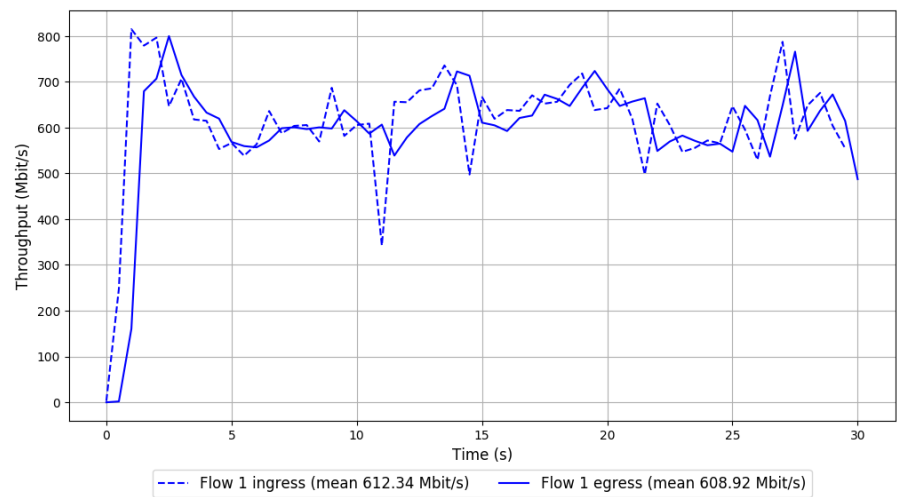


Run 3: Statistics of FillP-Sheep

Start at: 2018-07-06 02:38:43
End at: 2018-07-06 02:39:13
Local clock offset: 0.814 ms
Remote clock offset: -0.221 ms

Below is generated by plot.py at 2018-07-06 05:59:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 608.92 Mbit/s
95th percentile per-packet one-way delay: 232.170 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 608.92 Mbit/s
95th percentile per-packet one-way delay: 232.170 ms
Loss rate: 0.90%

Run 3: Report of FillP-Sheep — Data Link

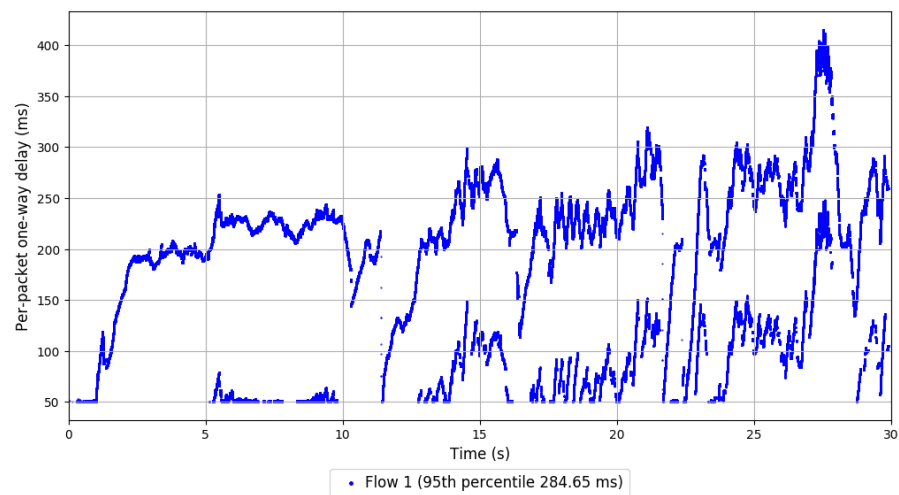
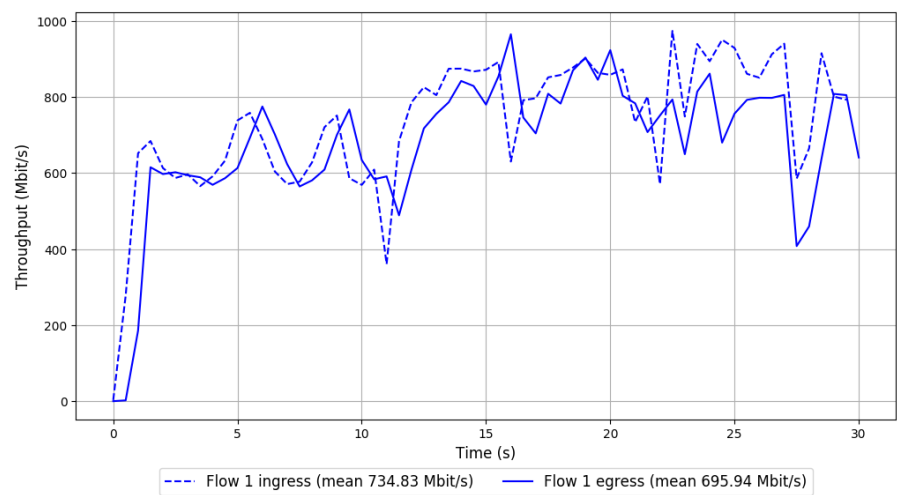


Run 4: Statistics of FillP-Sheep

Start at: 2018-07-06 03:00:15
End at: 2018-07-06 03:00:45
Local clock offset: -0.212 ms
Remote clock offset: -0.135 ms

Below is generated by plot.py at 2018-07-06 06:01:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 695.94 Mbit/s
95th percentile per-packet one-way delay: 284.655 ms
Loss rate: 5.62%
-- Flow 1:
Average throughput: 695.94 Mbit/s
95th percentile per-packet one-way delay: 284.655 ms
Loss rate: 5.62%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-07-06 03:21:57

End at: 2018-07-06 03:22:27

Local clock offset: -0.259 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2018-07-06 06:01:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 595.24 Mbit/s

95th percentile per-packet one-way delay: 243.106 ms

Loss rate: 0.81%

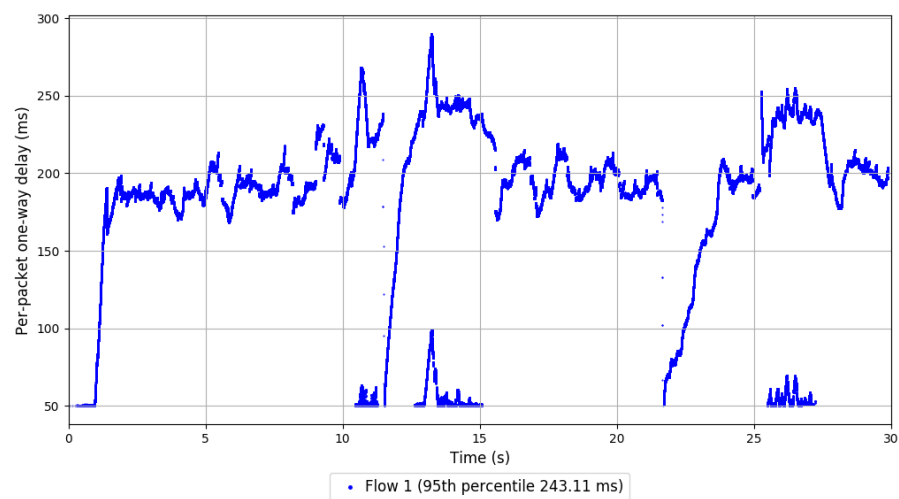
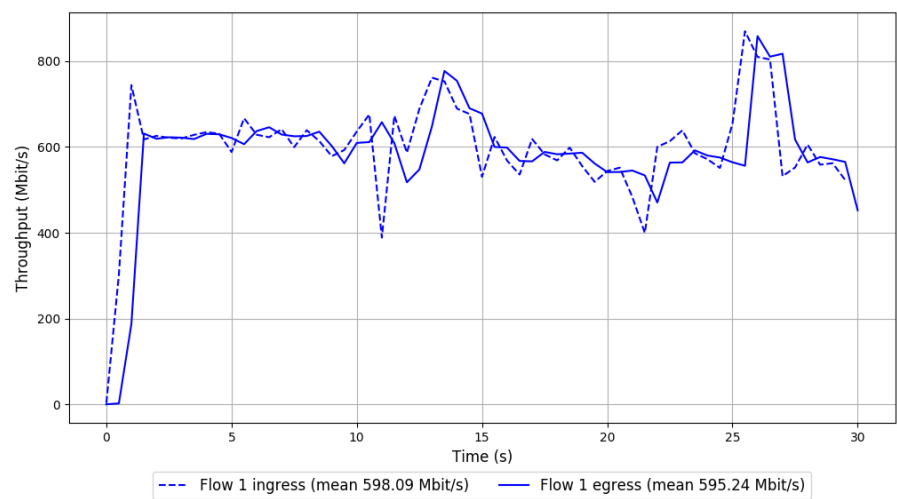
-- Flow 1:

Average throughput: 595.24 Mbit/s

95th percentile per-packet one-way delay: 243.106 ms

Loss rate: 0.81%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-06 03:43:31

End at: 2018-07-06 03:44:01

Local clock offset: -0.762 ms

Remote clock offset: 0.097 ms

Below is generated by plot.py at 2018-07-06 06:03:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 688.55 Mbit/s

95th percentile per-packet one-way delay: 292.969 ms

Loss rate: 2.78%

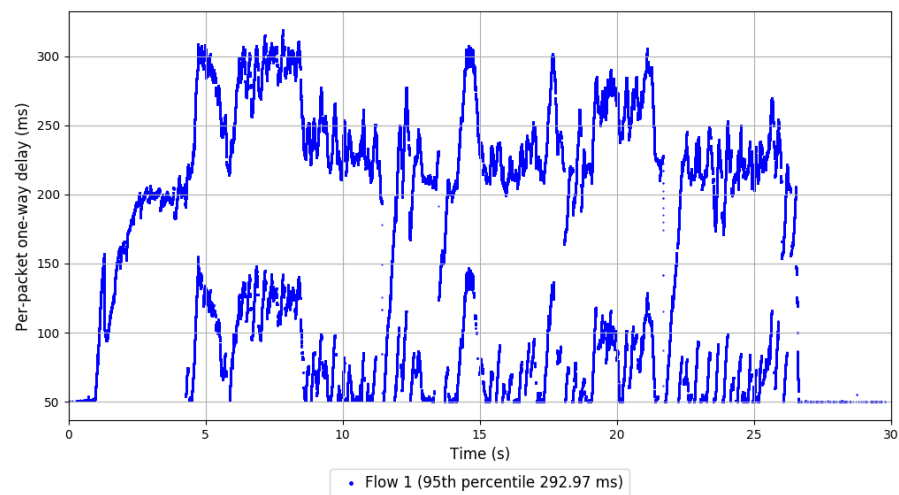
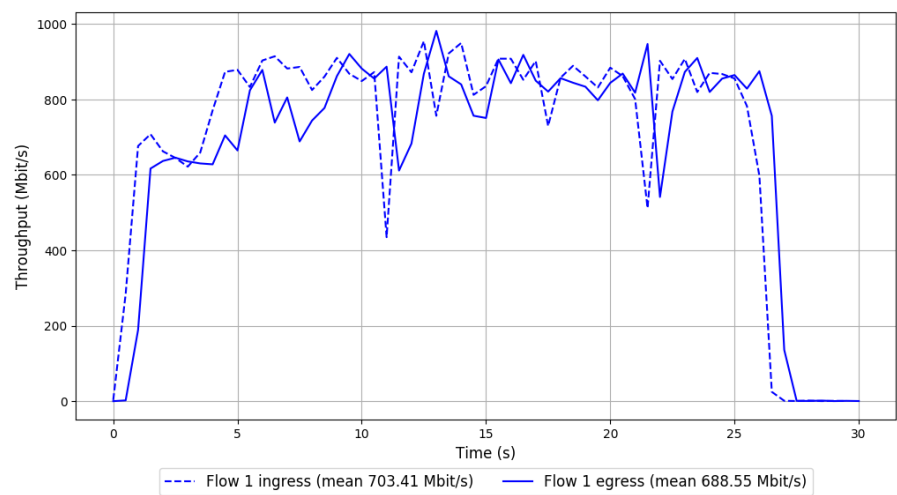
-- Flow 1:

Average throughput: 688.55 Mbit/s

95th percentile per-packet one-way delay: 292.969 ms

Loss rate: 2.78%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-07-06 04:05:14

End at: 2018-07-06 04:05:44

Local clock offset: -0.92 ms

Remote clock offset: 0.128 ms

Below is generated by plot.py at 2018-07-06 06:09:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 589.51 Mbit/s

95th percentile per-packet one-way delay: 240.469 ms

Loss rate: 0.91%

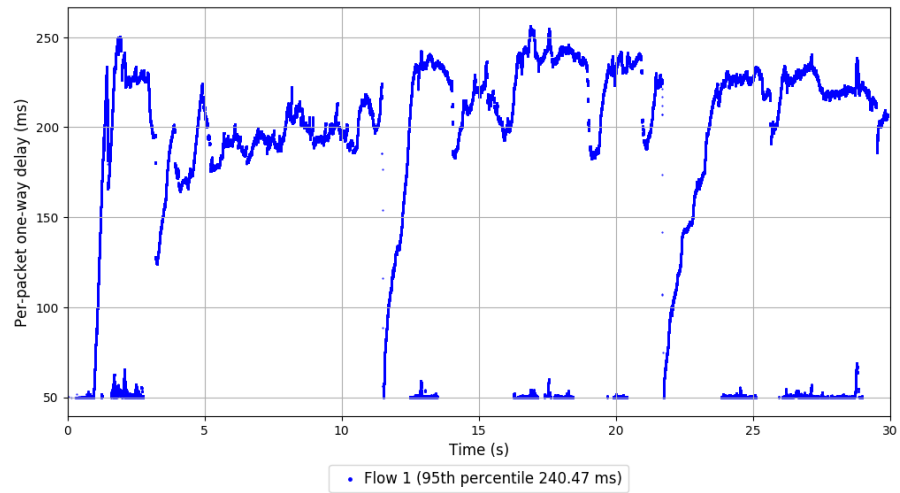
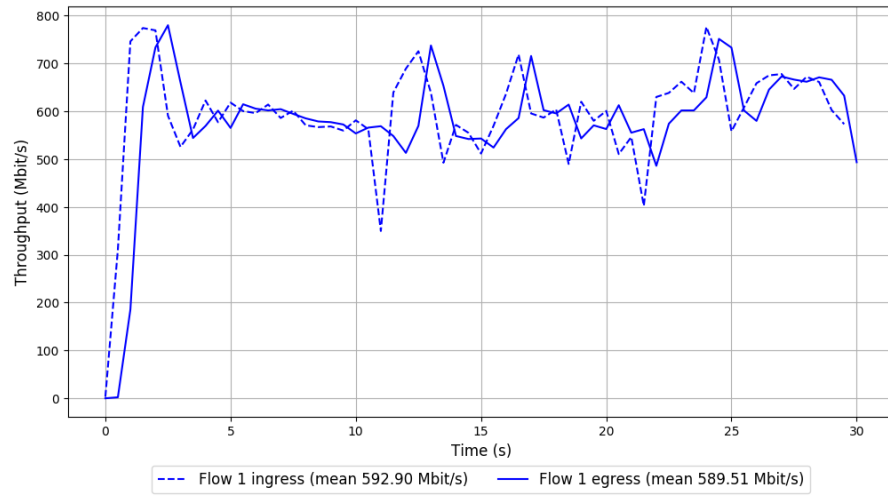
-- Flow 1:

Average throughput: 589.51 Mbit/s

95th percentile per-packet one-way delay: 240.469 ms

Loss rate: 0.91%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-06 04:26:43

End at: 2018-07-06 04:27:13

Local clock offset: -0.693 ms

Remote clock offset: 0.22 ms

Below is generated by plot.py at 2018-07-06 06:09:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 595.32 Mbit/s

95th percentile per-packet one-way delay: 242.728 ms

Loss rate: 0.95%

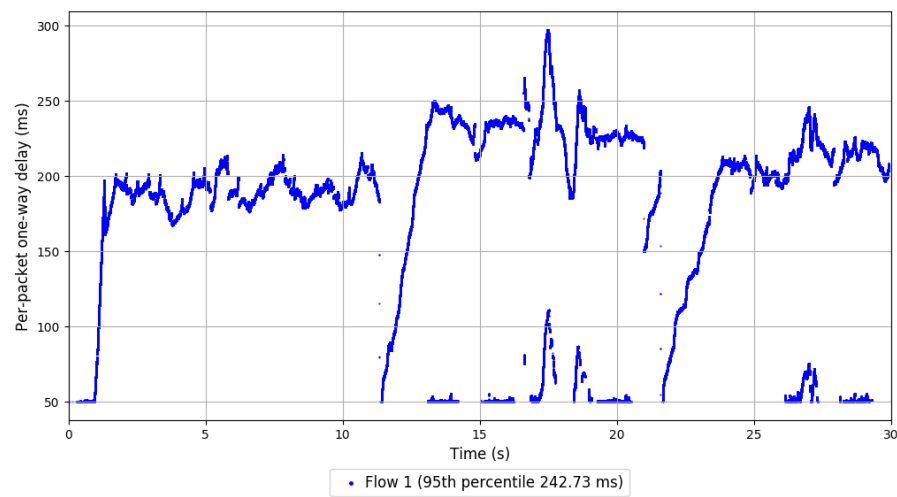
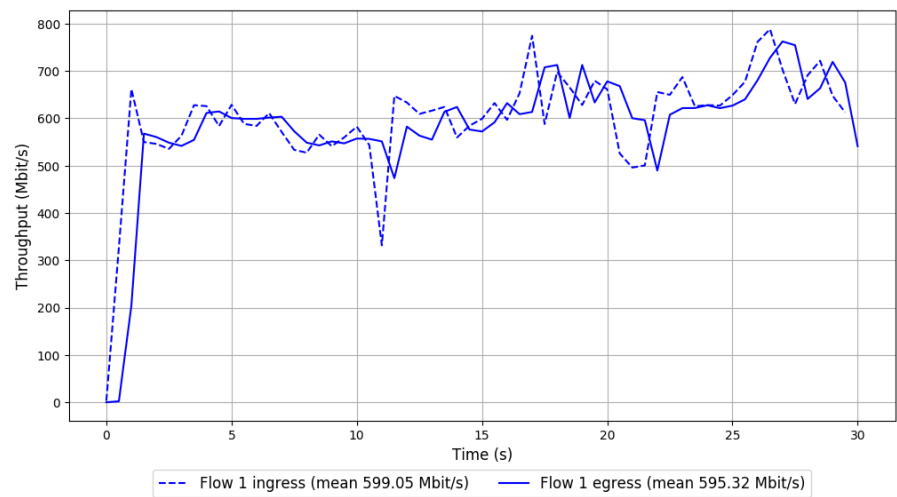
-- Flow 1:

Average throughput: 595.32 Mbit/s

95th percentile per-packet one-way delay: 242.728 ms

Loss rate: 0.95%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-06 04:48:14

End at: 2018-07-06 04:48:44

Local clock offset: -0.23 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2018-07-06 06:12:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 674.55 Mbit/s

95th percentile per-packet one-way delay: 281.843 ms

Loss rate: 3.05%

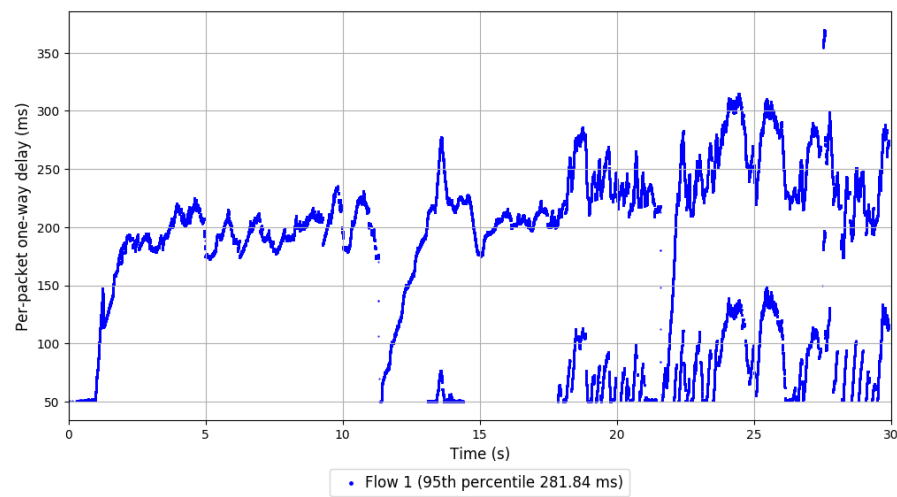
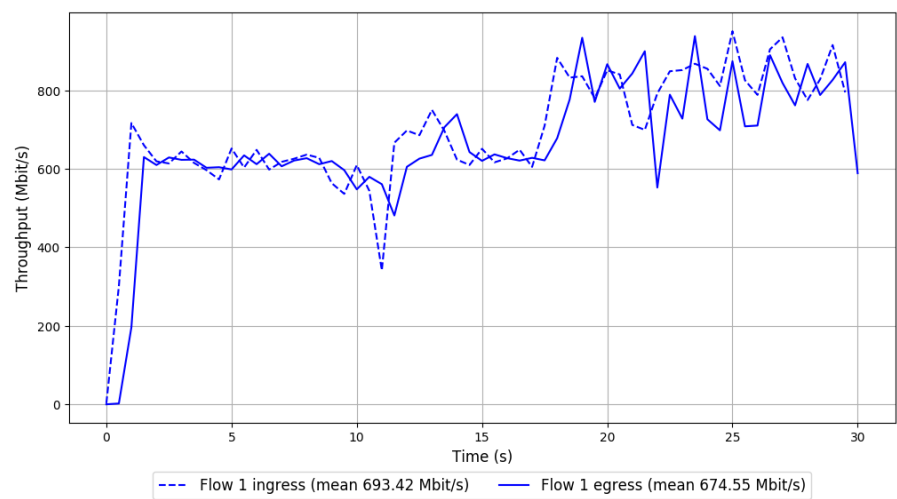
-- Flow 1:

Average throughput: 674.55 Mbit/s

95th percentile per-packet one-way delay: 281.843 ms

Loss rate: 3.05%

Run 9: Report of FillP-Sheep — Data Link

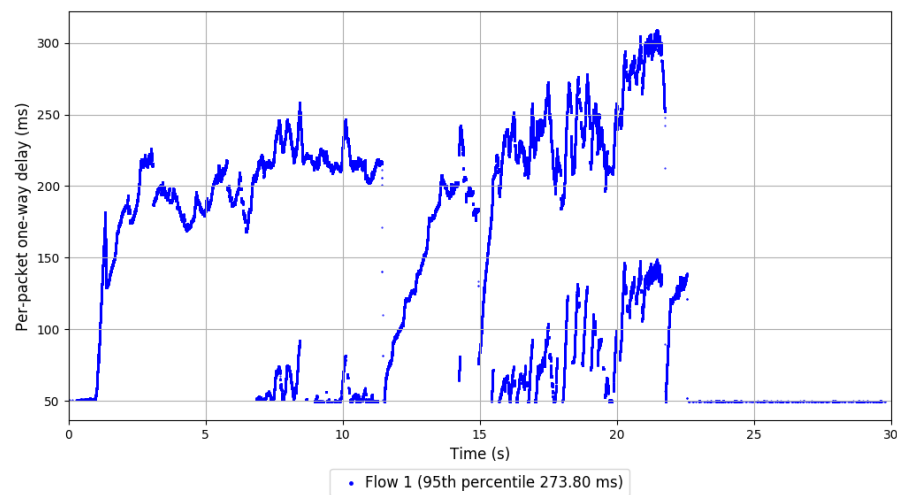
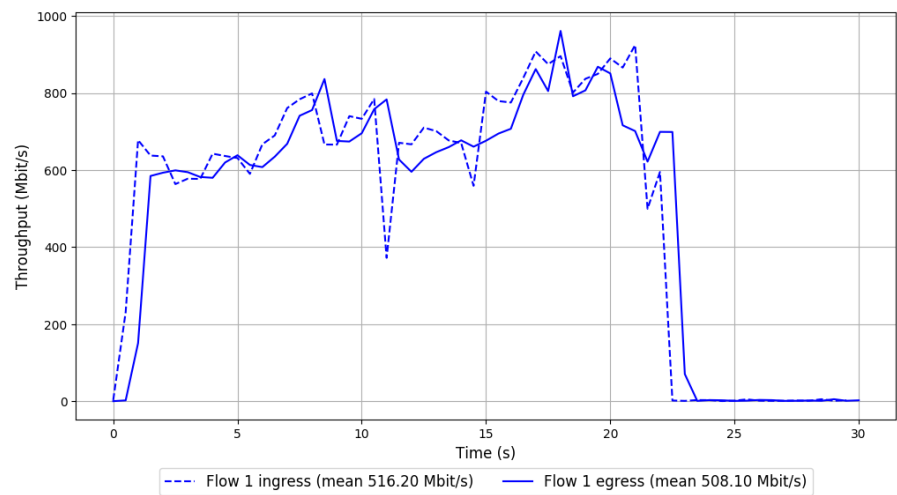


Run 10: Statistics of FillP-Sheep

Start at: 2018-07-06 05:09:45
End at: 2018-07-06 05:10:15
Local clock offset: 0.083 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2018-07-06 06:12:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 508.10 Mbit/s
95th percentile per-packet one-way delay: 273.800 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 508.10 Mbit/s
95th percentile per-packet one-way delay: 273.800 ms
Loss rate: 2.11%

Run 10: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

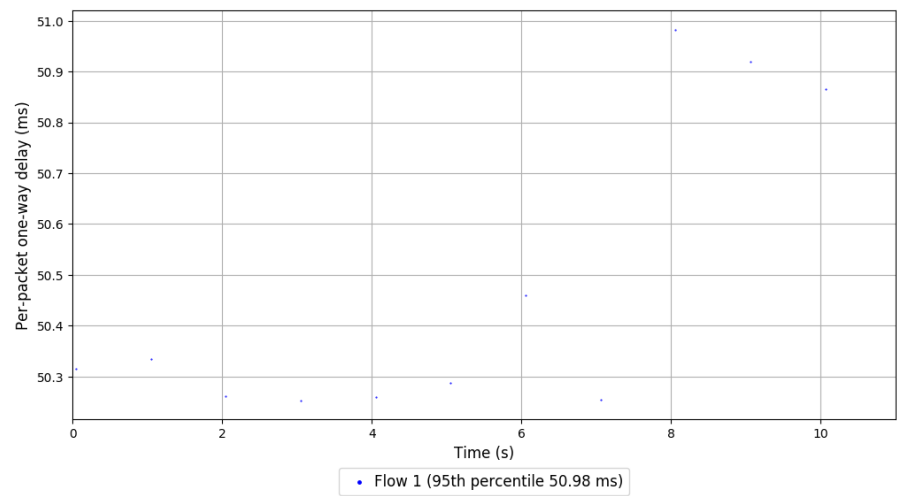
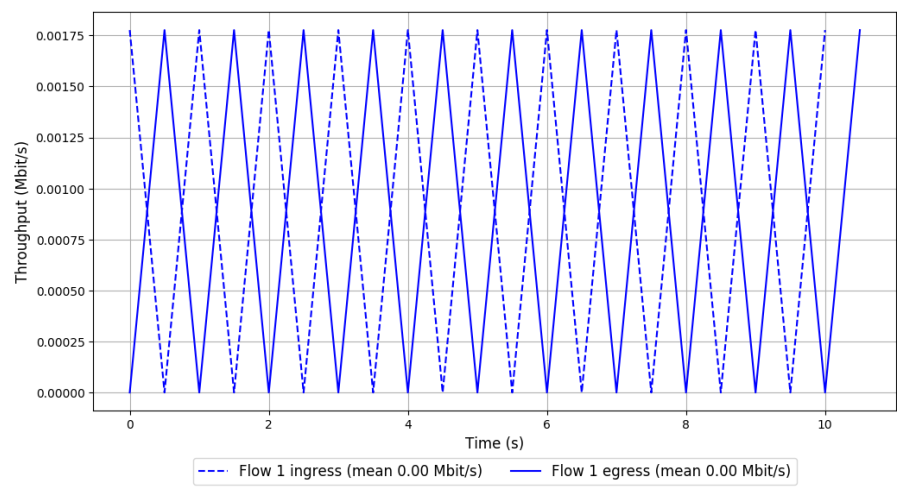
Start at: 2018-07-06 01:57:35

End at: 2018-07-06 01:58:05

Local clock offset: 0.363 ms

Remote clock offset: -0.034 ms

Run 1: Report of Indigo — Data Link

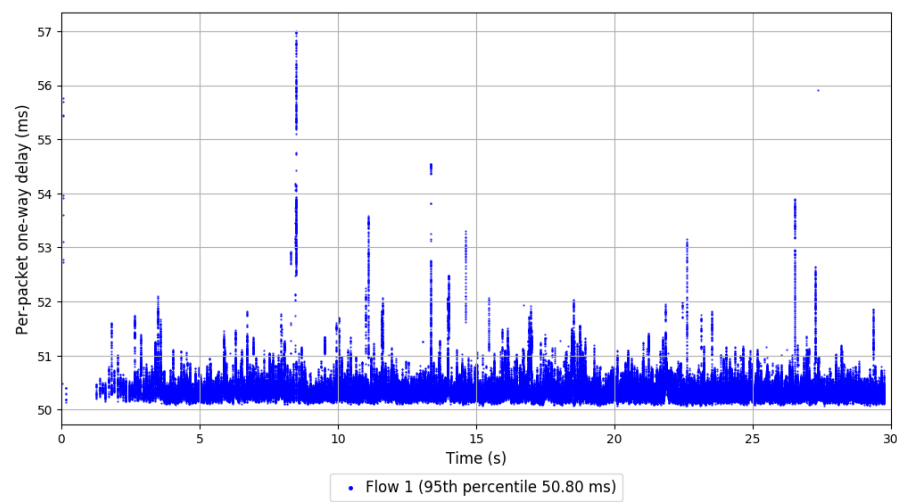
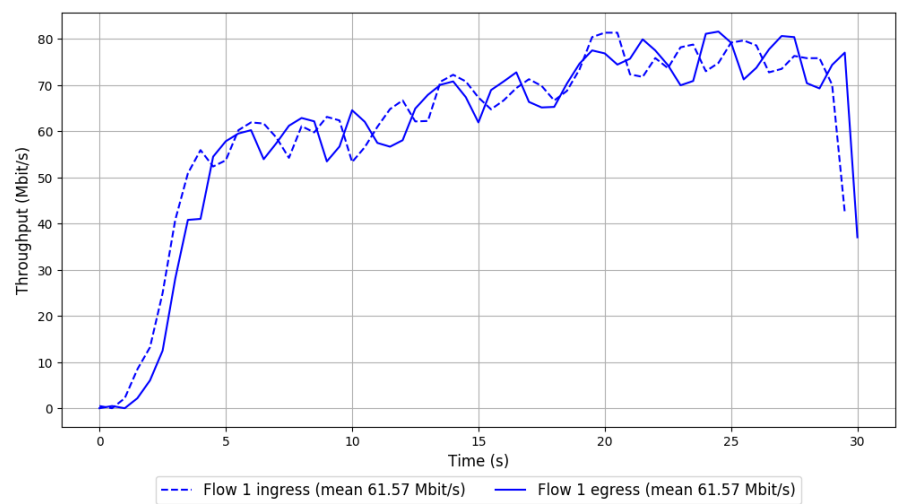


Run 2: Statistics of Indigo

Start at: 2018-07-06 02:19:00
End at: 2018-07-06 02:19:30
Local clock offset: 0.392 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2018-07-06 06:12:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 61.57 Mbit/s
95th percentile per-packet one-way delay: 50.800 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 61.57 Mbit/s
95th percentile per-packet one-way delay: 50.800 ms
Loss rate: 0.34%

Run 2: Report of Indigo — Data Link

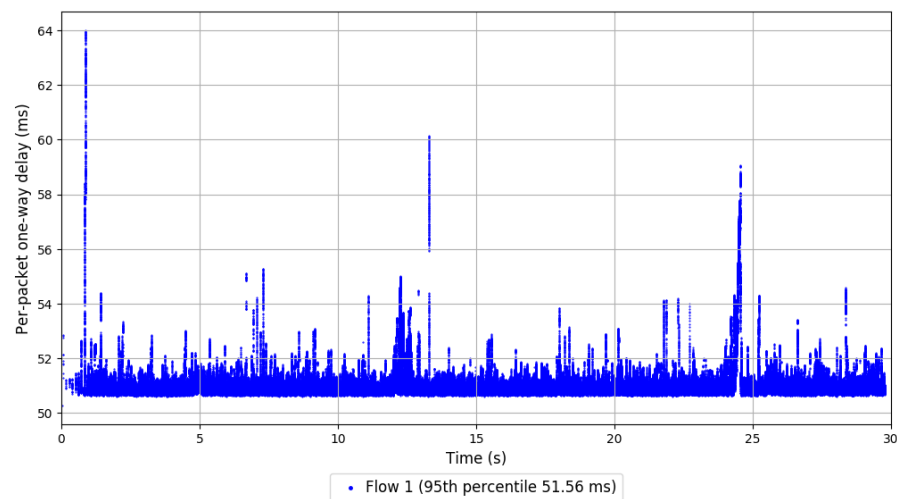
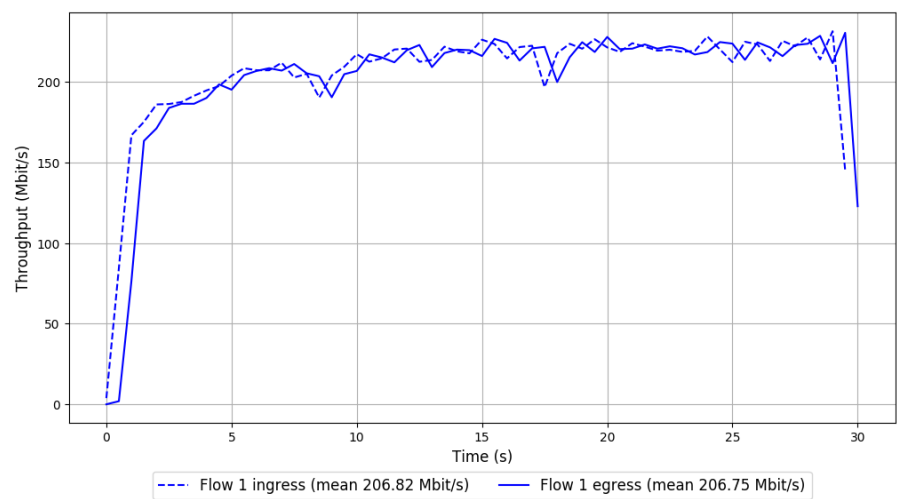


Run 3: Statistics of Indigo

Start at: 2018-07-06 02:40:12
End at: 2018-07-06 02:40:42
Local clock offset: 0.466 ms
Remote clock offset: -0.238 ms

Below is generated by plot.py at 2018-07-06 06:12:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 206.75 Mbit/s
95th percentile per-packet one-way delay: 51.560 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 206.75 Mbit/s
95th percentile per-packet one-way delay: 51.560 ms
Loss rate: 0.37%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-06 03:01:50

End at: 2018-07-06 03:02:20

Local clock offset: 0.085 ms

Remote clock offset: -0.14 ms

Below is generated by plot.py at 2018-07-06 06:12:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.41 Mbit/s

95th percentile per-packet one-way delay: 51.212 ms

Loss rate: 0.38%

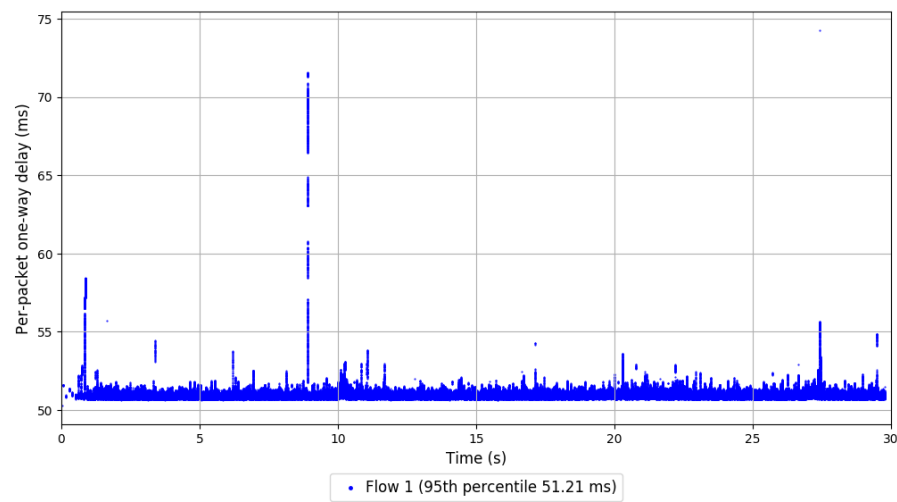
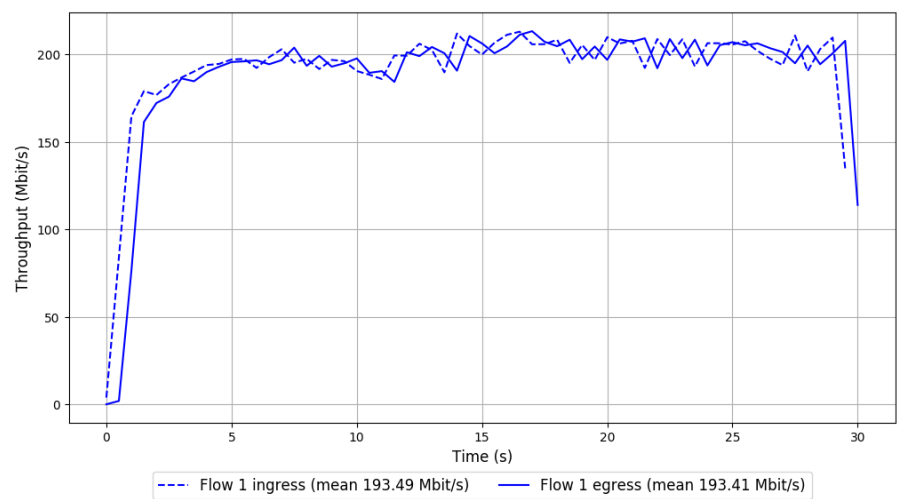
-- Flow 1:

Average throughput: 193.41 Mbit/s

95th percentile per-packet one-way delay: 51.212 ms

Loss rate: 0.38%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-07-06 03:23:26

End at: 2018-07-06 03:23:56

Local clock offset: -0.623 ms

Remote clock offset: 0.081 ms

Below is generated by plot.py at 2018-07-06 06:12:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.91 Mbit/s

95th percentile per-packet one-way delay: 50.889 ms

Loss rate: 0.37%

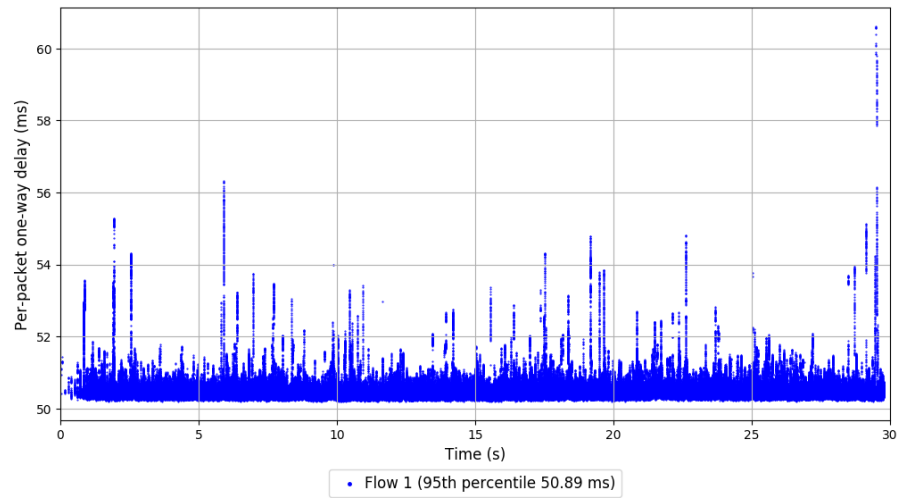
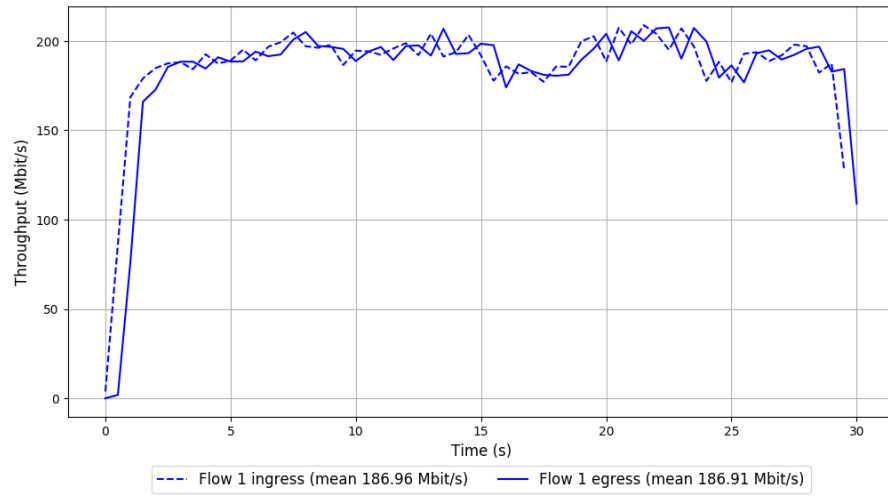
-- Flow 1:

Average throughput: 186.91 Mbit/s

95th percentile per-packet one-way delay: 50.889 ms

Loss rate: 0.37%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-06 03:45:06

End at: 2018-07-06 03:45:36

Local clock offset: -0.437 ms

Remote clock offset: 0.091 ms

Below is generated by plot.py at 2018-07-06 06:12:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.04 Mbit/s

95th percentile per-packet one-way delay: 50.780 ms

Loss rate: 0.36%

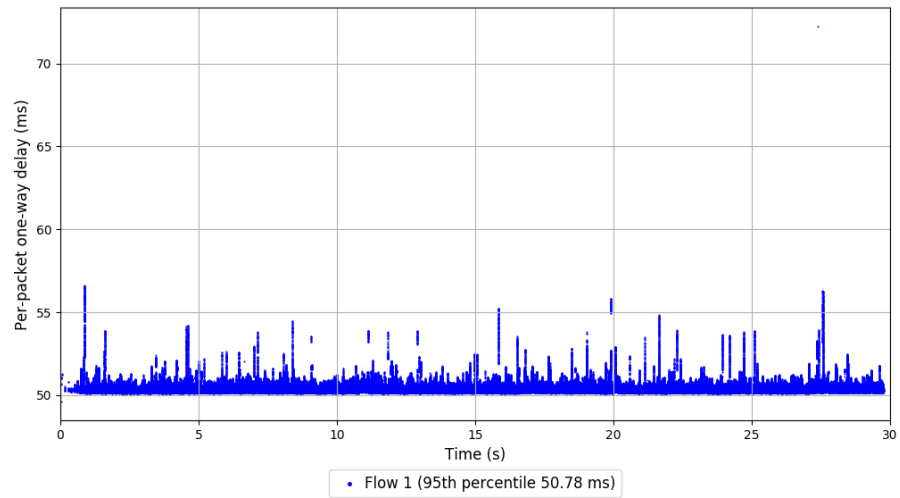
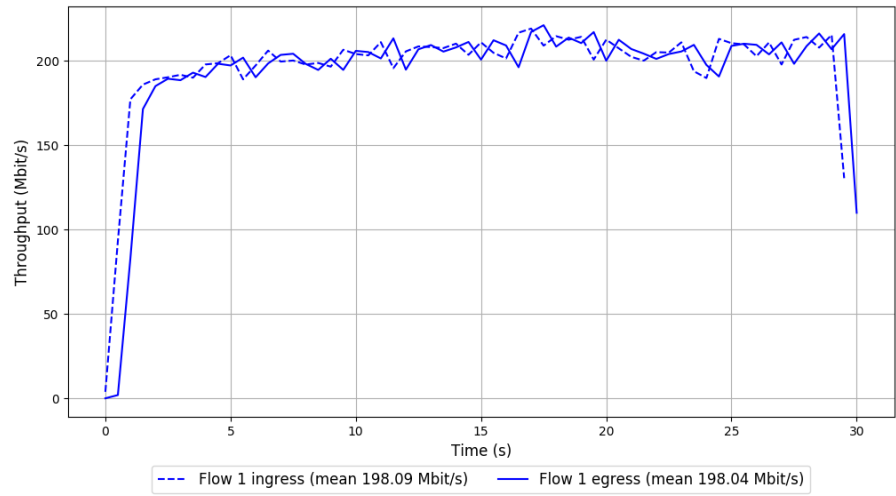
-- Flow 1:

Average throughput: 198.04 Mbit/s

95th percentile per-packet one-way delay: 50.780 ms

Loss rate: 0.36%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-06 04:06:42

End at: 2018-07-06 04:07:12

Local clock offset: -0.927 ms

Remote clock offset: 0.18 ms

Below is generated by plot.py at 2018-07-06 06:12:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.57 Mbit/s

95th percentile per-packet one-way delay: 50.573 ms

Loss rate: 0.37%

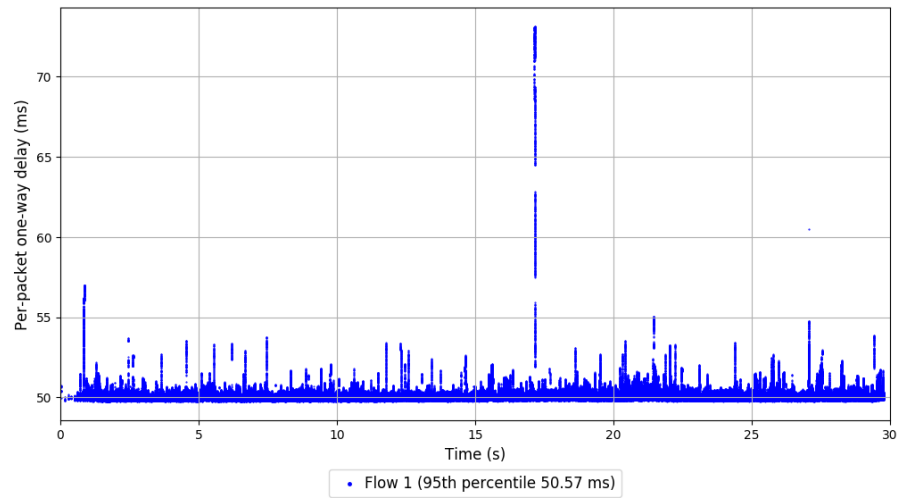
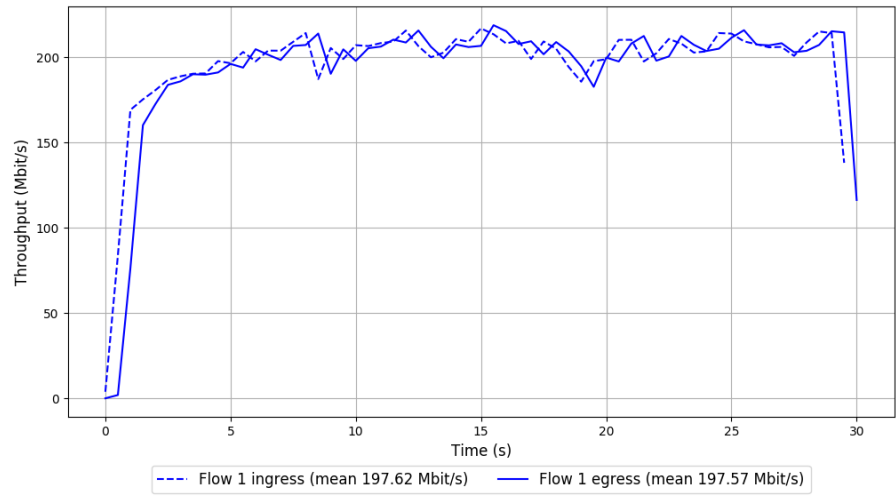
-- Flow 1:

Average throughput: 197.57 Mbit/s

95th percentile per-packet one-way delay: 50.573 ms

Loss rate: 0.37%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-06 04:28:12

End at: 2018-07-06 04:28:42

Local clock offset: -1.108 ms

Remote clock offset: 0.291 ms

Below is generated by plot.py at 2018-07-06 06:12:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.44 Mbit/s

95th percentile per-packet one-way delay: 50.336 ms

Loss rate: 0.40%

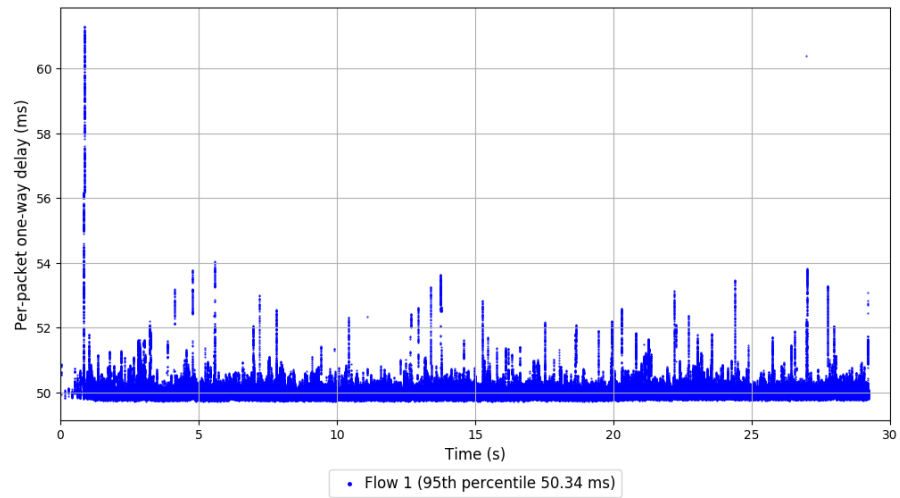
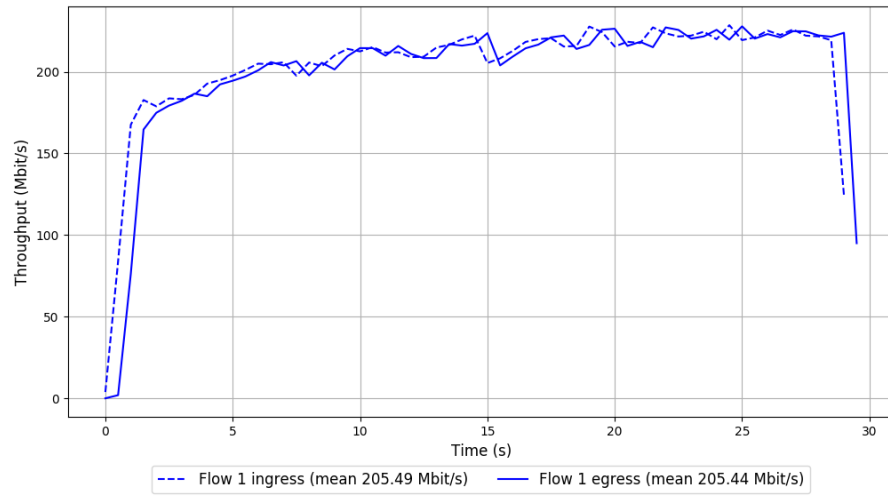
-- Flow 1:

Average throughput: 205.44 Mbit/s

95th percentile per-packet one-way delay: 50.336 ms

Loss rate: 0.40%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-06 04:49:48

End at: 2018-07-06 04:50:18

Local clock offset: 0.212 ms

Remote clock offset: 0.063 ms

Below is generated by plot.py at 2018-07-06 06:12:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.96 Mbit/s

95th percentile per-packet one-way delay: 50.680 ms

Loss rate: 0.34%

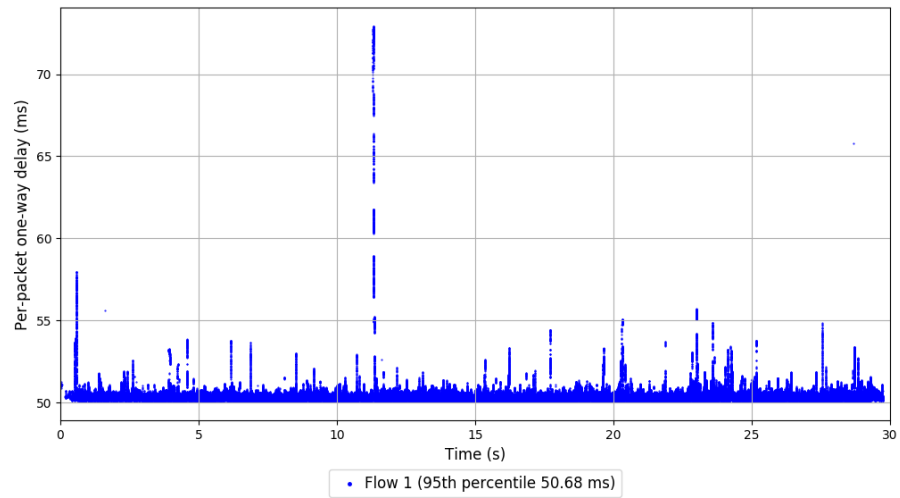
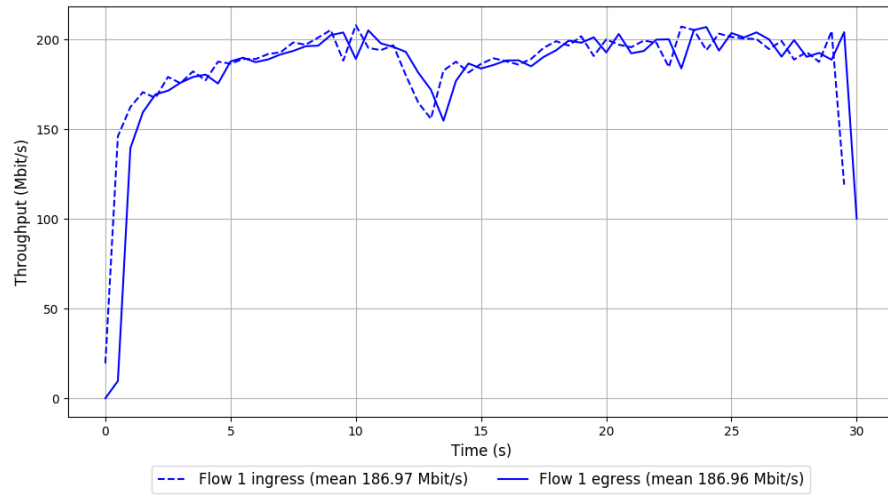
-- Flow 1:

Average throughput: 186.96 Mbit/s

95th percentile per-packet one-way delay: 50.680 ms

Loss rate: 0.34%

Run 9: Report of Indigo — Data Link

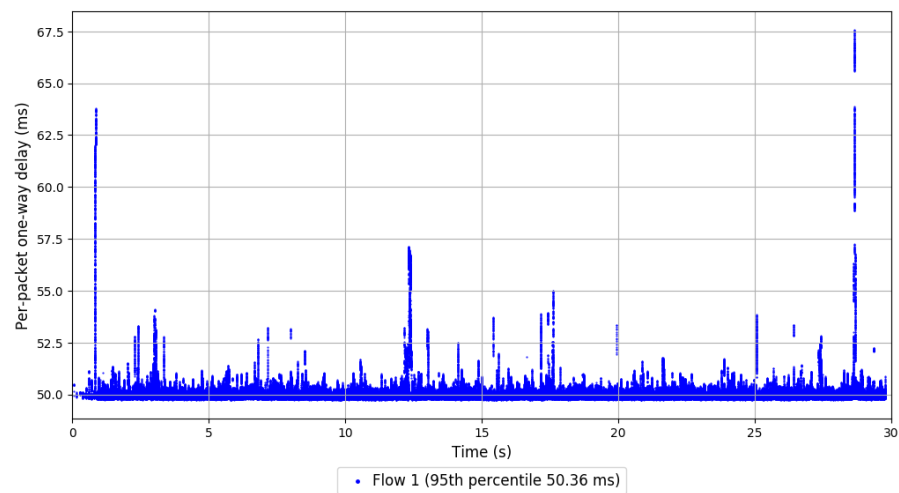
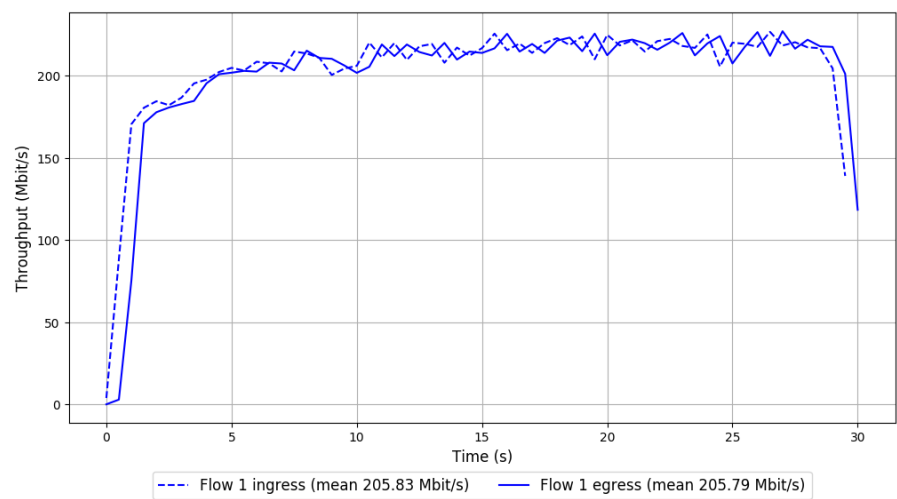


Run 10: Statistics of Indigo

Start at: 2018-07-06 05:11:11
End at: 2018-07-06 05:11:41
Local clock offset: -0.259 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-07-06 06:12:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 205.79 Mbit/s
95th percentile per-packet one-way delay: 50.359 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 205.79 Mbit/s
95th percentile per-packet one-way delay: 50.359 ms
Loss rate: 0.36%

Run 10: Report of Indigo — Data Link

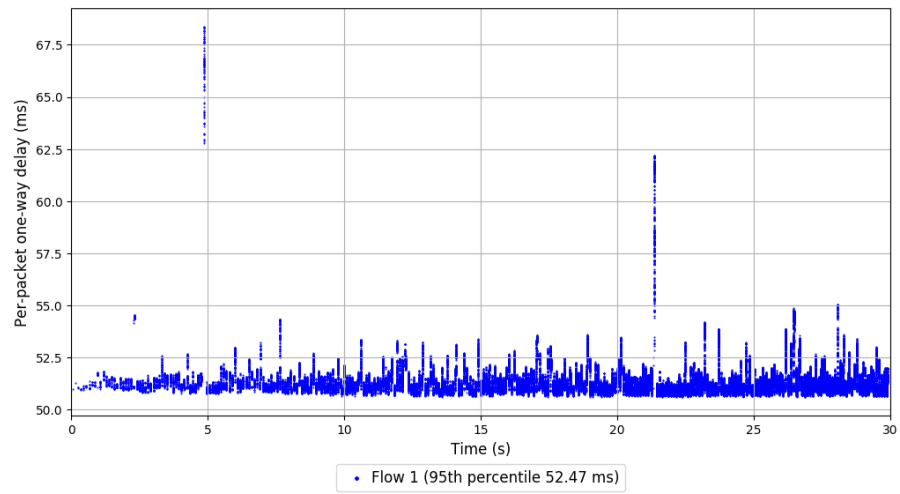
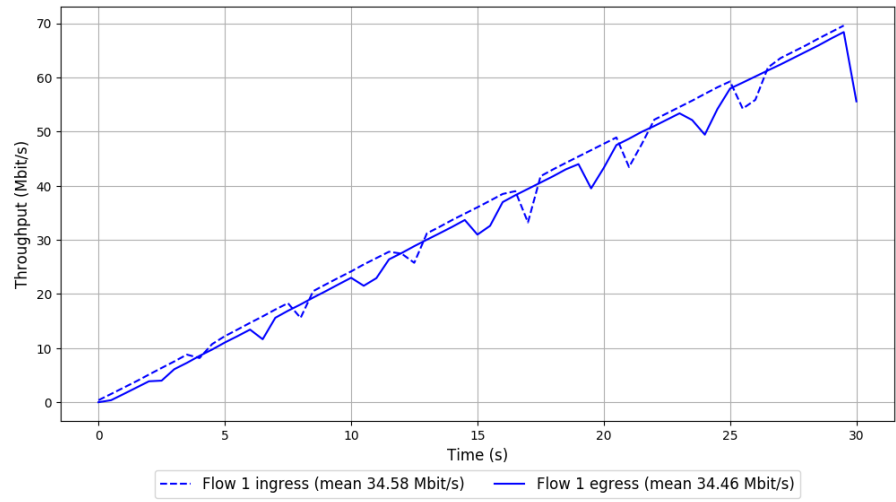


```
Run 1: Statistics of LEDBAT

Start at: 2018-07-06 01:40:54
End at: 2018-07-06 01:41:24
Local clock offset: 0.349 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2018-07-06 06:12:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.46 Mbit/s
95th percentile per-packet one-way delay: 52.466 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 34.46 Mbit/s
95th percentile per-packet one-way delay: 52.466 ms
Loss rate: 0.68%
```


Run 1: Report of LEDBAT — Data Link

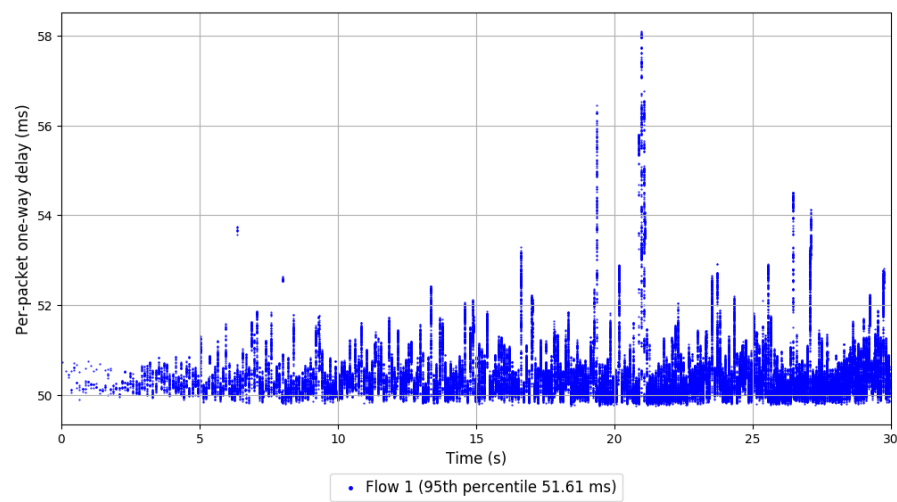
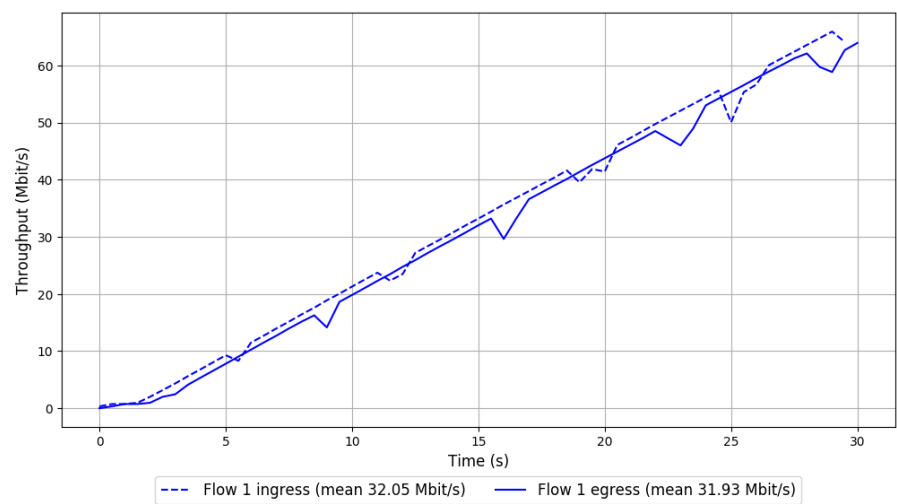


Run 2: Statistics of LEDBAT

Start at: 2018-07-06 02:02:20
End at: 2018-07-06 02:02:50
Local clock offset: 0.034 ms
Remote clock offset: -0.027 ms

Below is generated by plot.py at 2018-07-06 06:12:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 31.93 Mbit/s
95th percentile per-packet one-way delay: 51.612 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 31.93 Mbit/s
95th percentile per-packet one-way delay: 51.612 ms
Loss rate: 0.70%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-07-06 02:23:45

End at: 2018-07-06 02:24:15

Local clock offset: 0.445 ms

Remote clock offset: -0.1 ms

Below is generated by plot.py at 2018-07-06 06:12:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.23 Mbit/s

95th percentile per-packet one-way delay: 52.972 ms

Loss rate: 0.67%

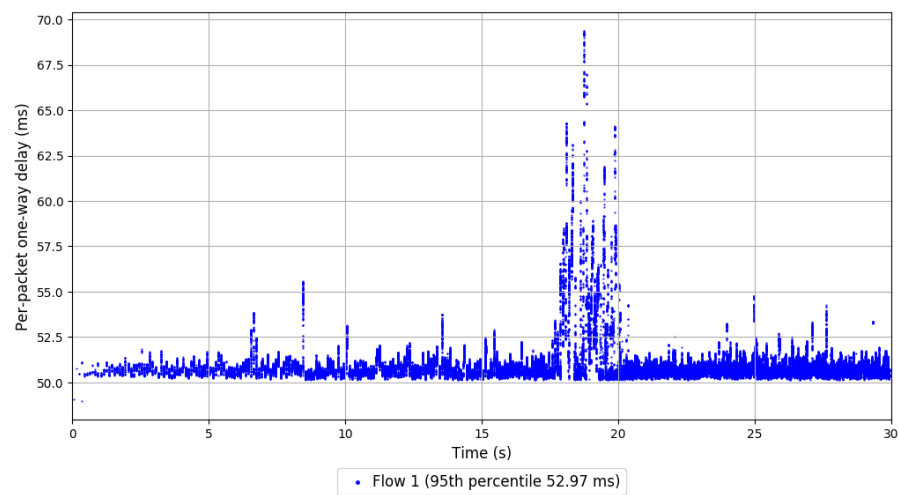
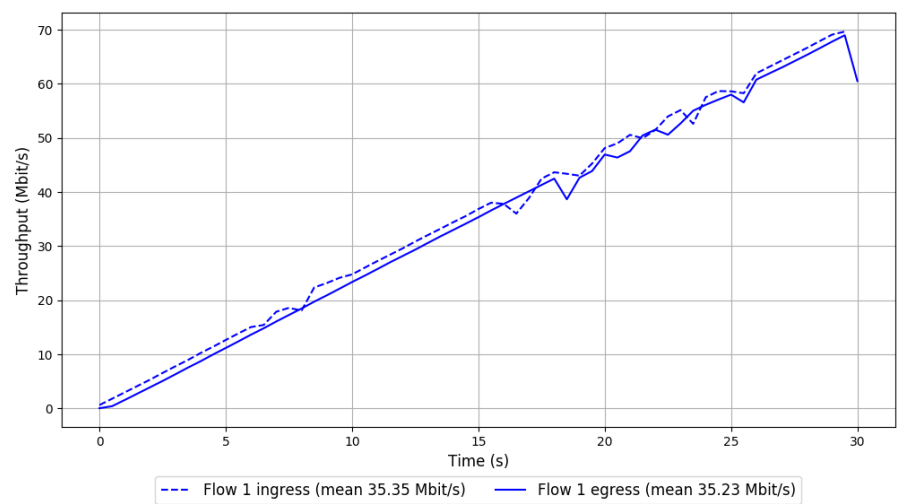
-- Flow 1:

Average throughput: 35.23 Mbit/s

95th percentile per-packet one-way delay: 52.972 ms

Loss rate: 0.67%

Run 3: Report of LEDBAT — Data Link

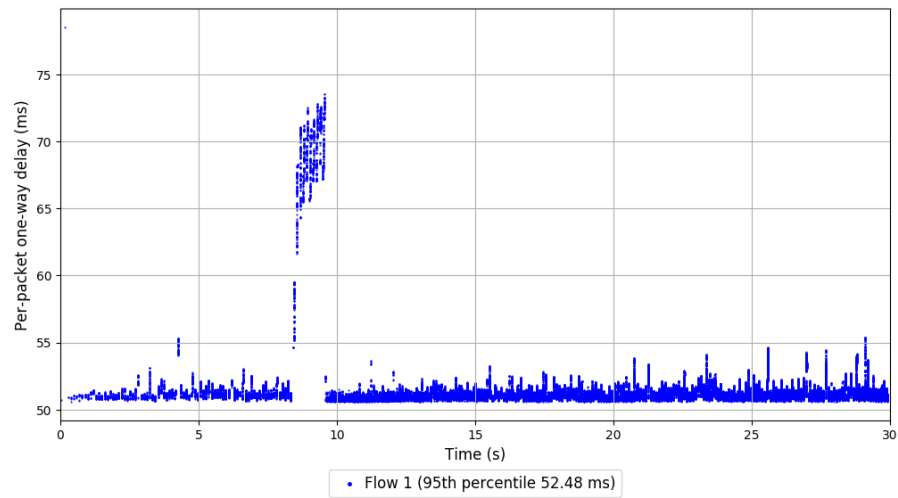
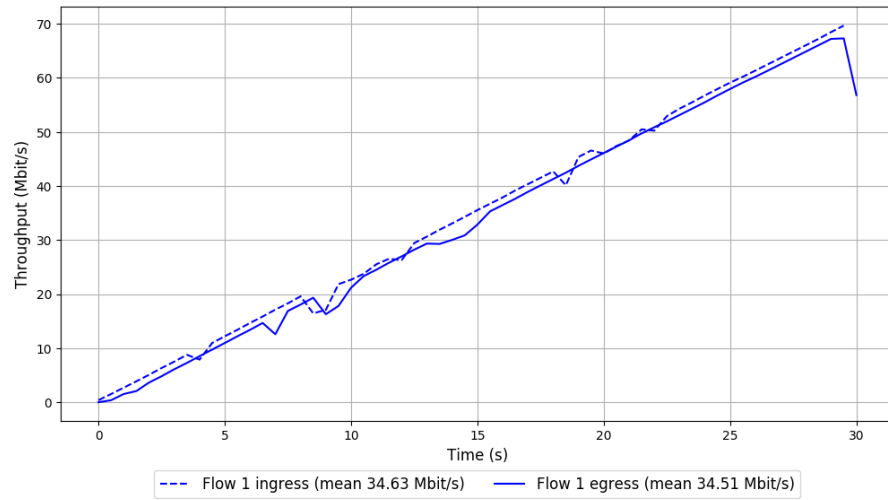


Run 4: Statistics of LEDBAT

Start at: 2018-07-06 02:45:05
End at: 2018-07-06 02:45:35
Local clock offset: 0.454 ms
Remote clock offset: -0.246 ms

Below is generated by plot.py at 2018-07-06 06:12:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 34.51 Mbit/s
95th percentile per-packet one-way delay: 52.475 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 34.51 Mbit/s
95th percentile per-packet one-way delay: 52.475 ms
Loss rate: 0.68%

Run 4: Report of LEDBAT — Data Link

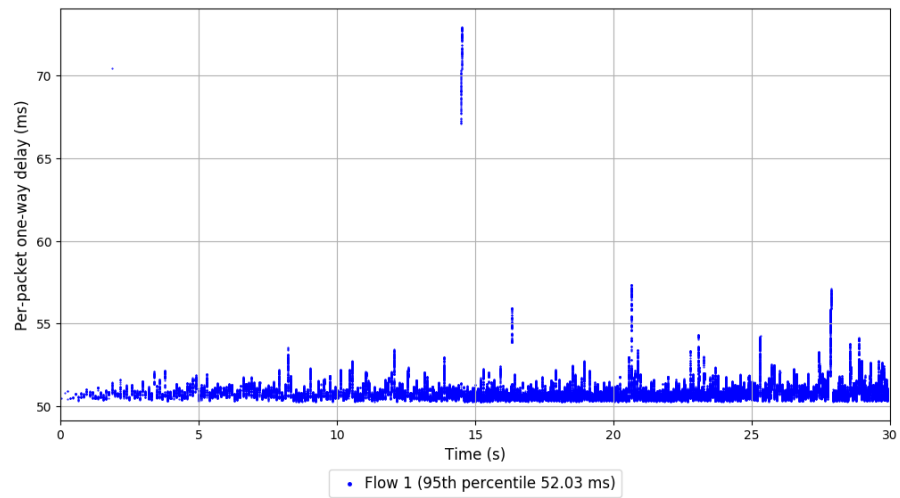
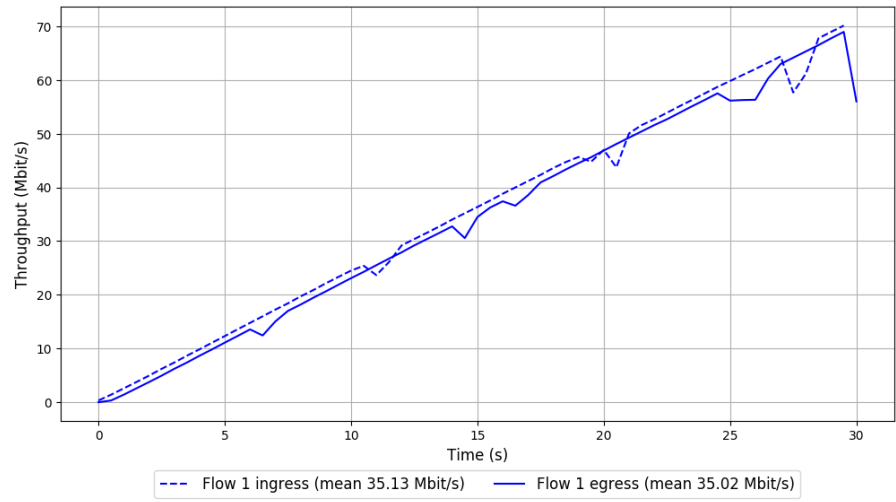


Run 5: Statistics of LEDBAT

Start at: 2018-07-06 03:06:45
End at: 2018-07-06 03:07:15
Local clock offset: -0.401 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-07-06 06:12:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 35.02 Mbit/s
95th percentile per-packet one-way delay: 52.033 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 35.02 Mbit/s
95th percentile per-packet one-way delay: 52.033 ms
Loss rate: 0.67%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-06 03:28:18

End at: 2018-07-06 03:28:48

Local clock offset: -0.311 ms

Remote clock offset: 0.039 ms

Below is generated by plot.py at 2018-07-06 06:12:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.49 Mbit/s

95th percentile per-packet one-way delay: 52.846 ms

Loss rate: 0.68%

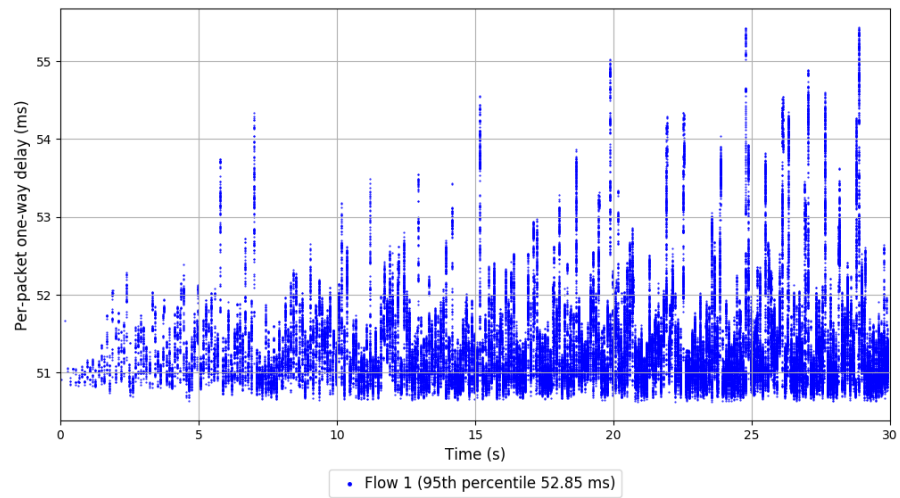
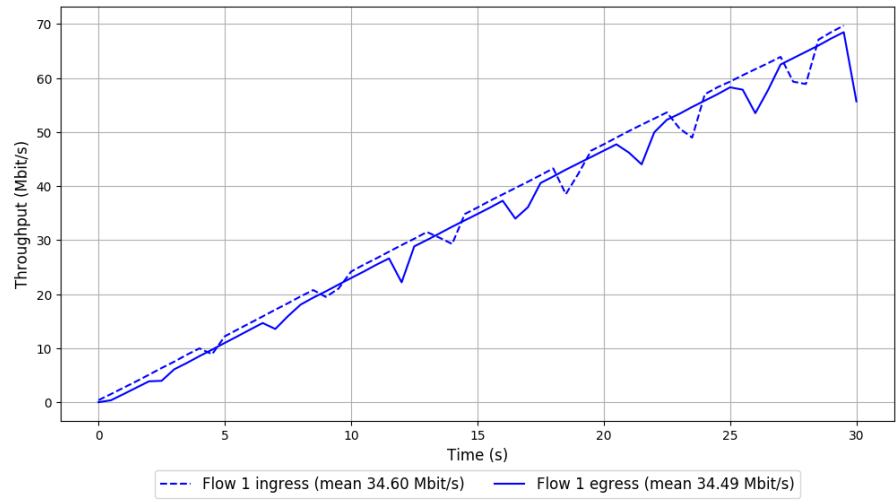
-- Flow 1:

Average throughput: 34.49 Mbit/s

95th percentile per-packet one-way delay: 52.846 ms

Loss rate: 0.68%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-07-06 03:50:01

End at: 2018-07-06 03:50:31

Local clock offset: -0.808 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2018-07-06 06:12:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.32 Mbit/s

95th percentile per-packet one-way delay: 51.799 ms

Loss rate: 0.68%

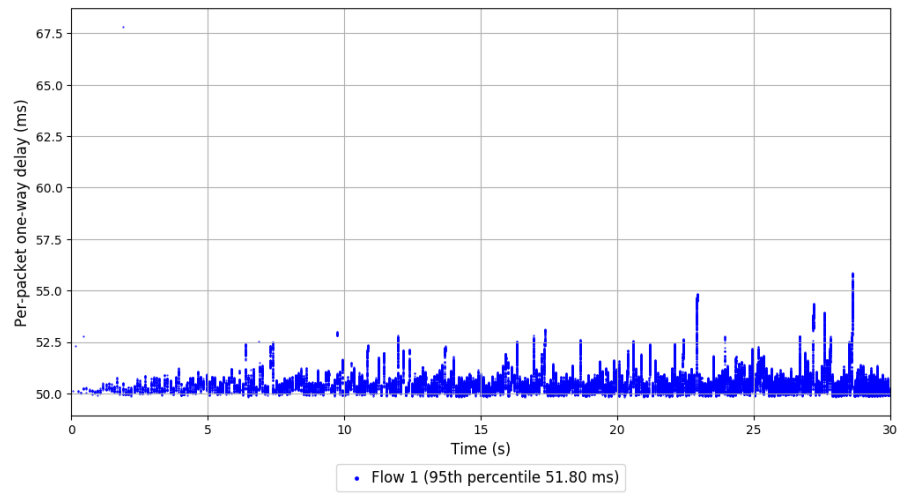
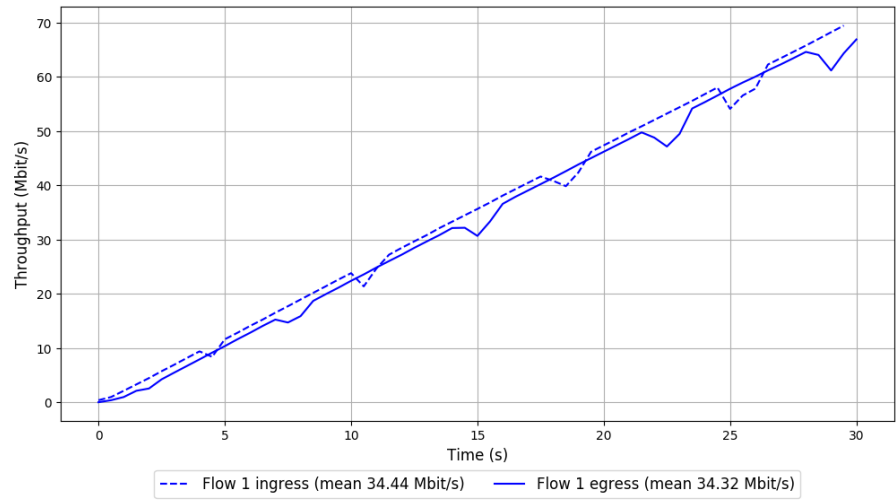
-- Flow 1:

Average throughput: 34.32 Mbit/s

95th percentile per-packet one-way delay: 51.799 ms

Loss rate: 0.68%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-06 04:11:35

End at: 2018-07-06 04:12:05

Local clock offset: -0.636 ms

Remote clock offset: 0.213 ms

Below is generated by plot.py at 2018-07-06 06:12:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.93 Mbit/s

95th percentile per-packet one-way delay: 51.908 ms

Loss rate: 0.67%

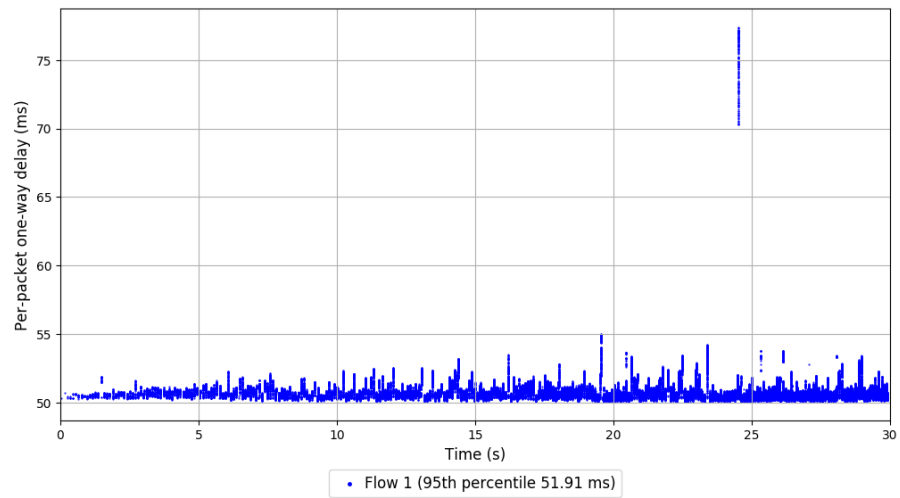
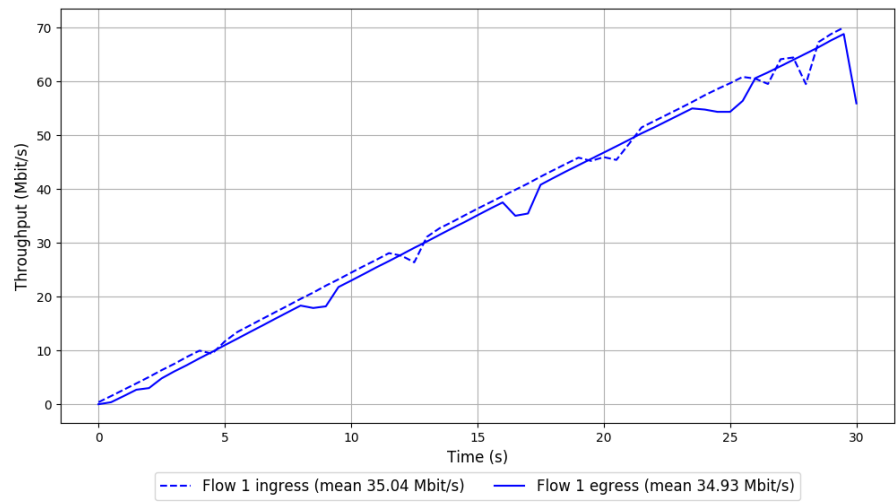
-- Flow 1:

Average throughput: 34.93 Mbit/s

95th percentile per-packet one-way delay: 51.908 ms

Loss rate: 0.67%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-06 04:33:06

End at: 2018-07-06 04:33:36

Local clock offset: -1.119 ms

Remote clock offset: 0.272 ms

Below is generated by plot.py at 2018-07-06 06:12:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.96 Mbit/s

95th percentile per-packet one-way delay: 51.362 ms

Loss rate: 0.69%

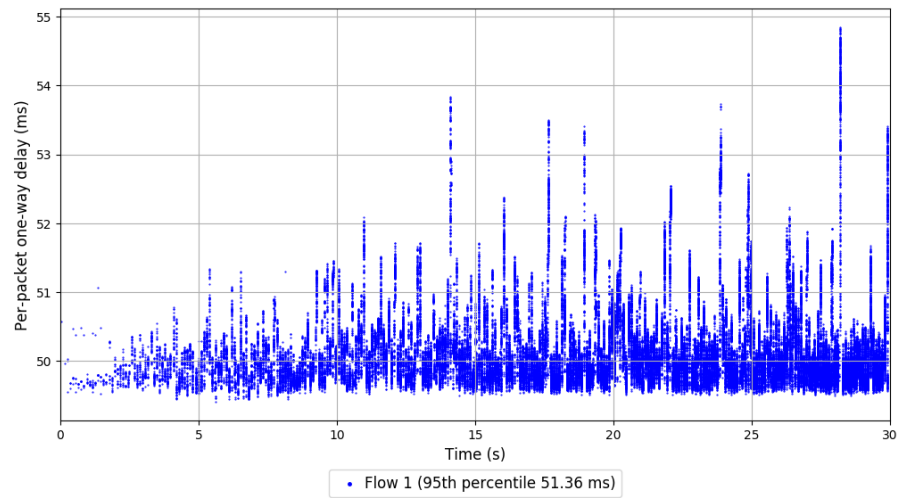
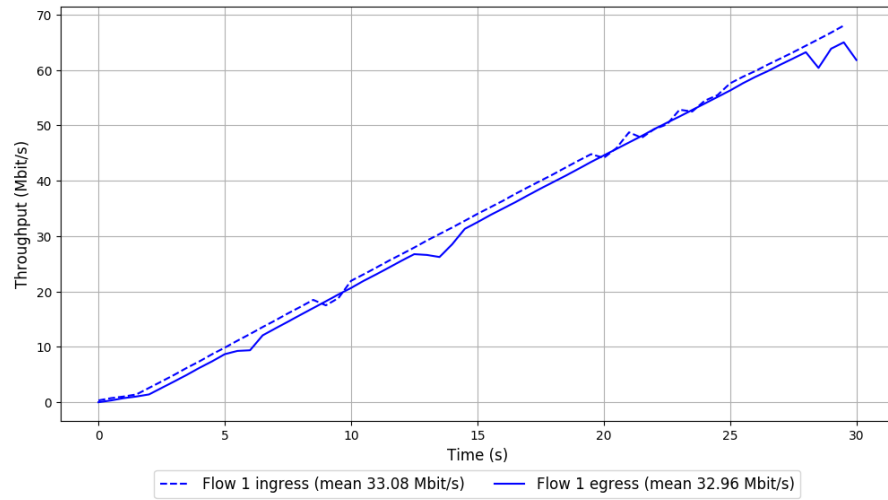
-- Flow 1:

Average throughput: 32.96 Mbit/s

95th percentile per-packet one-way delay: 51.362 ms

Loss rate: 0.69%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-06 04:54:39

End at: 2018-07-06 04:55:09

Local clock offset: -0.473 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-07-06 06:12:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.88 Mbit/s

95th percentile per-packet one-way delay: 51.190 ms

Loss rate: 0.68%

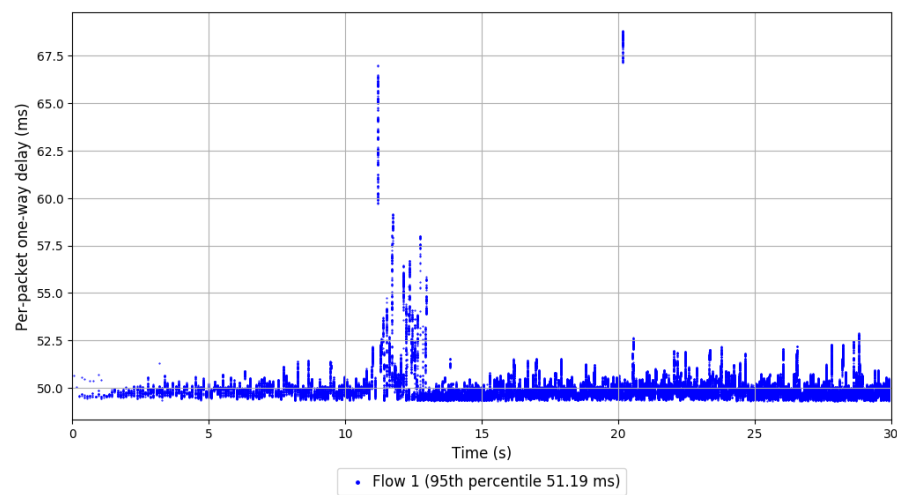
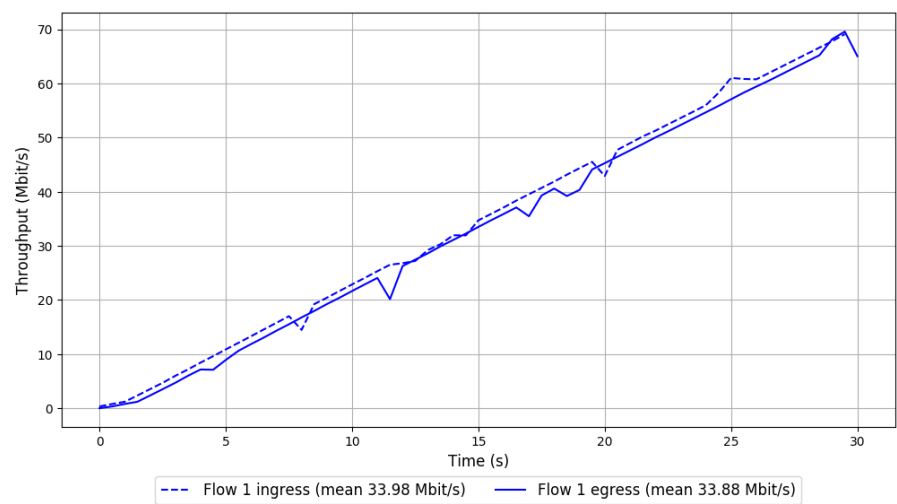
-- Flow 1:

Average throughput: 33.88 Mbit/s

95th percentile per-packet one-way delay: 51.190 ms

Loss rate: 0.68%

Run 10: Report of LEDBAT — Data Link

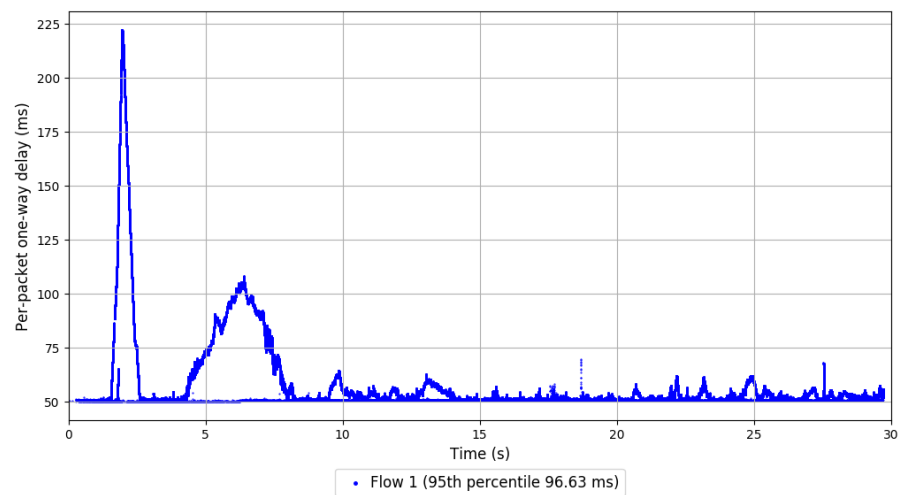
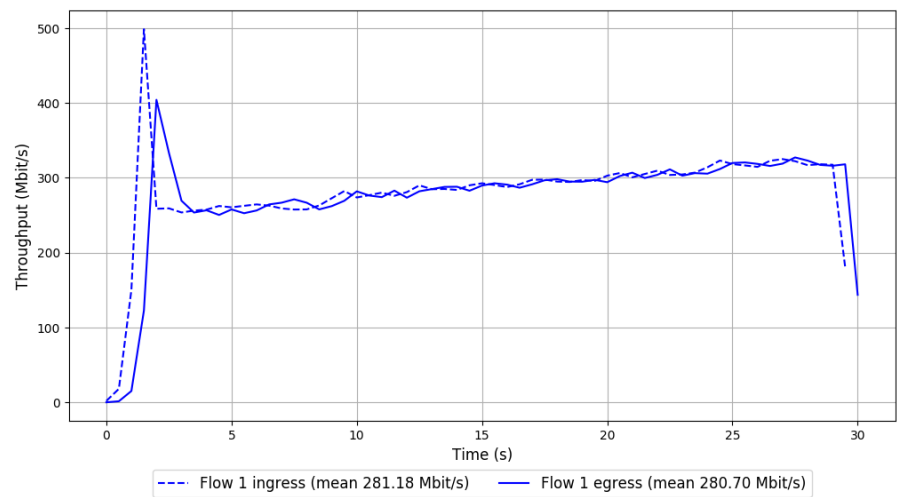


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-07-06 01:44:47
End at: 2018-07-06 01:45:17
Local clock offset: 0.351 ms
Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2018-07-06 06:14:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 280.70 Mbit/s
95th percentile per-packet one-way delay: 96.631 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 280.70 Mbit/s
95th percentile per-packet one-way delay: 96.631 ms
Loss rate: 0.51%
```

Run 1: Report of PCC-Allegro — Data Link

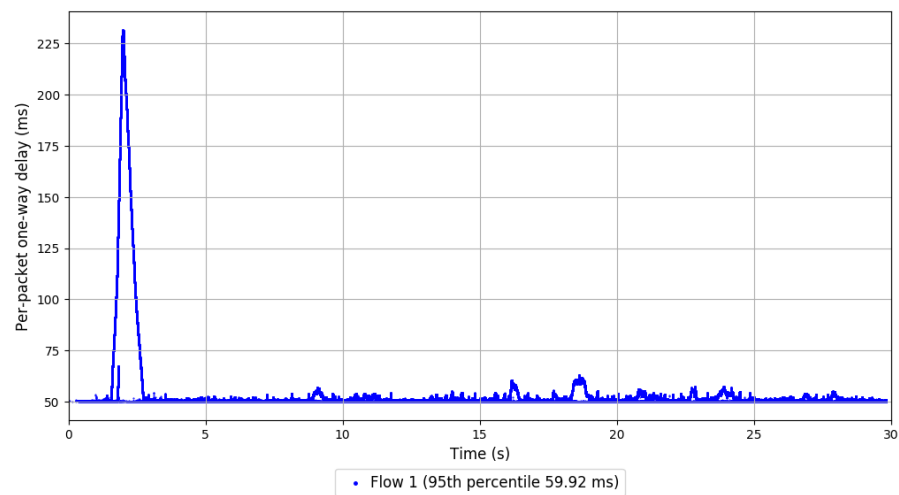
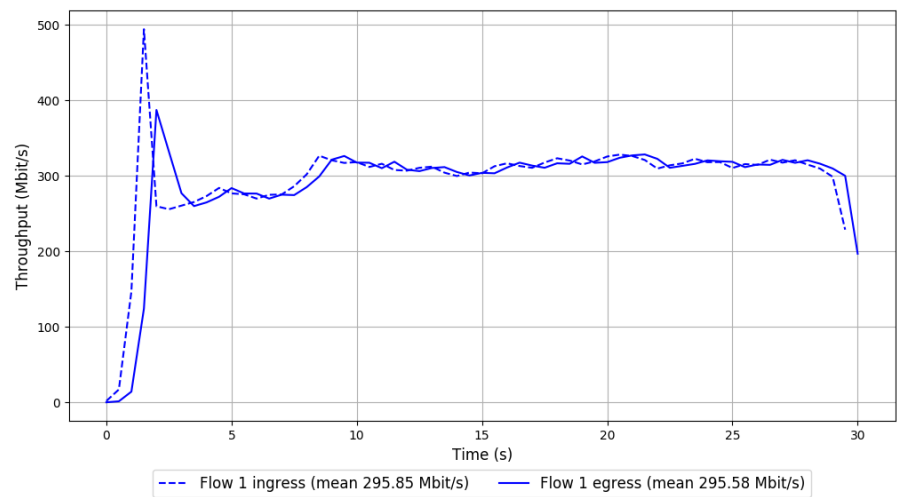


Run 2: Statistics of PCC-Allegro

Start at: 2018-07-06 02:06:11
End at: 2018-07-06 02:06:41
Local clock offset: 0.35 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2018-07-06 06:14:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 295.58 Mbit/s
95th percentile per-packet one-way delay: 59.922 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 295.58 Mbit/s
95th percentile per-packet one-way delay: 59.922 ms
Loss rate: 0.43%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-06 02:27:36

End at: 2018-07-06 02:28:06

Local clock offset: 0.421 ms

Remote clock offset: -0.194 ms

Below is generated by plot.py at 2018-07-06 06:15:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 306.42 Mbit/s

95th percentile per-packet one-way delay: 79.826 ms

Loss rate: 0.52%

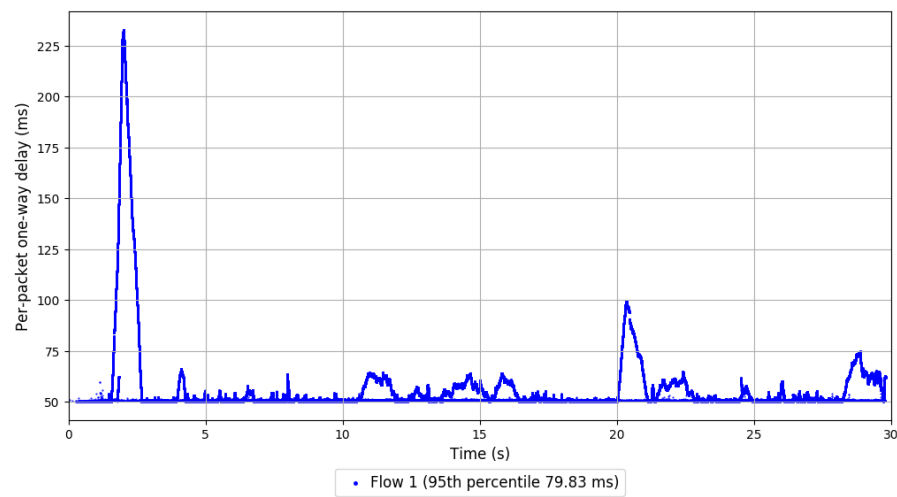
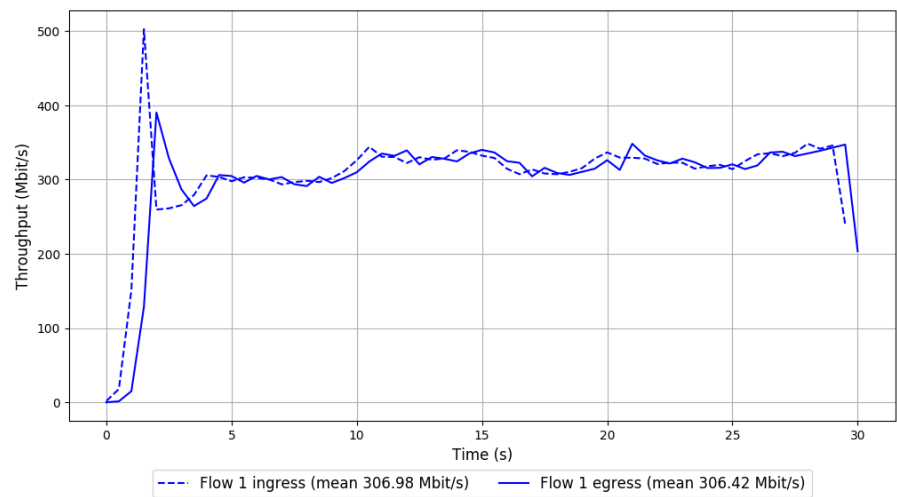
-- Flow 1:

Average throughput: 306.42 Mbit/s

95th percentile per-packet one-way delay: 79.826 ms

Loss rate: 0.52%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-06 02:48:57

End at: 2018-07-06 02:49:27

Local clock offset: 0.436 ms

Remote clock offset: -0.291 ms

Below is generated by plot.py at 2018-07-06 06:15:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 288.82 Mbit/s

95th percentile per-packet one-way delay: 74.445 ms

Loss rate: 0.39%

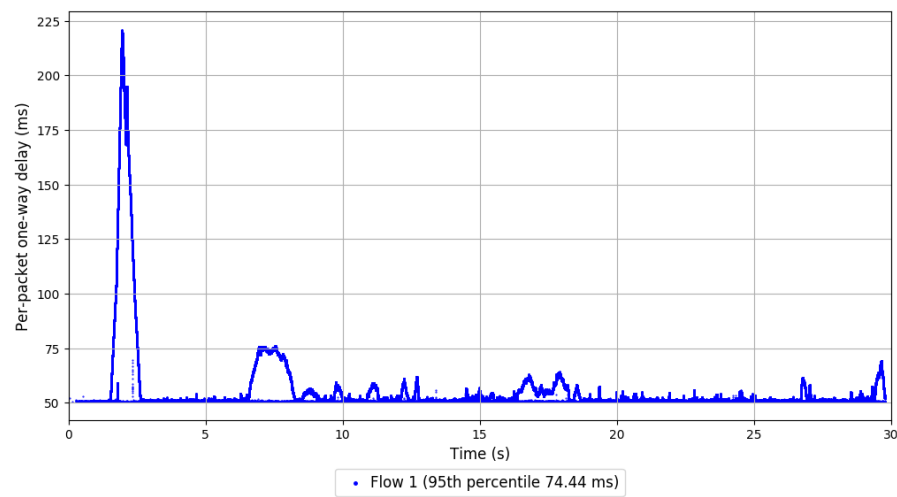
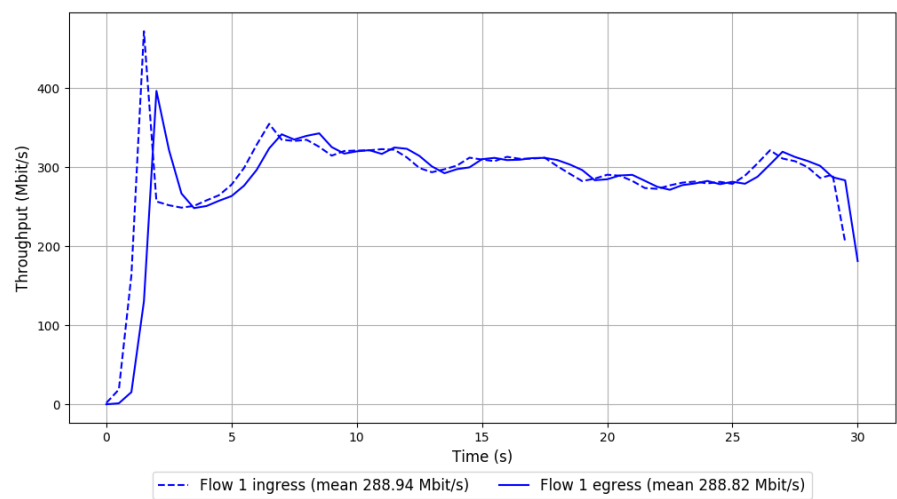
-- Flow 1:

Average throughput: 288.82 Mbit/s

95th percentile per-packet one-way delay: 74.445 ms

Loss rate: 0.39%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-06 03:10:35

End at: 2018-07-06 03:11:05

Local clock offset: -0.479 ms

Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-07-06 06:15:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 296.72 Mbit/s

95th percentile per-packet one-way delay: 77.295 ms

Loss rate: 0.39%

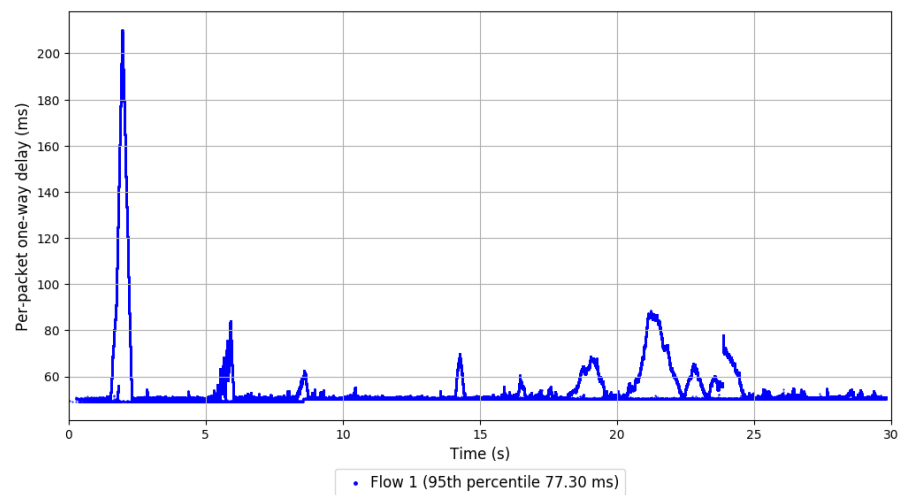
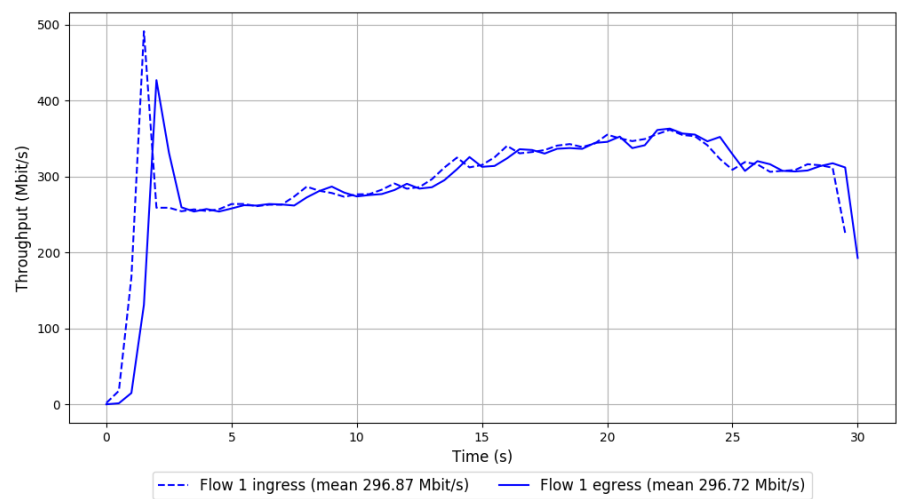
-- Flow 1:

Average throughput: 296.72 Mbit/s

95th percentile per-packet one-way delay: 77.295 ms

Loss rate: 0.39%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-06 03:32:11

End at: 2018-07-06 03:32:41

Local clock offset: -0.71 ms

Remote clock offset: 0.078 ms

Below is generated by plot.py at 2018-07-06 06:15:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 250.06 Mbit/s

95th percentile per-packet one-way delay: 57.938 ms

Loss rate: 0.43%

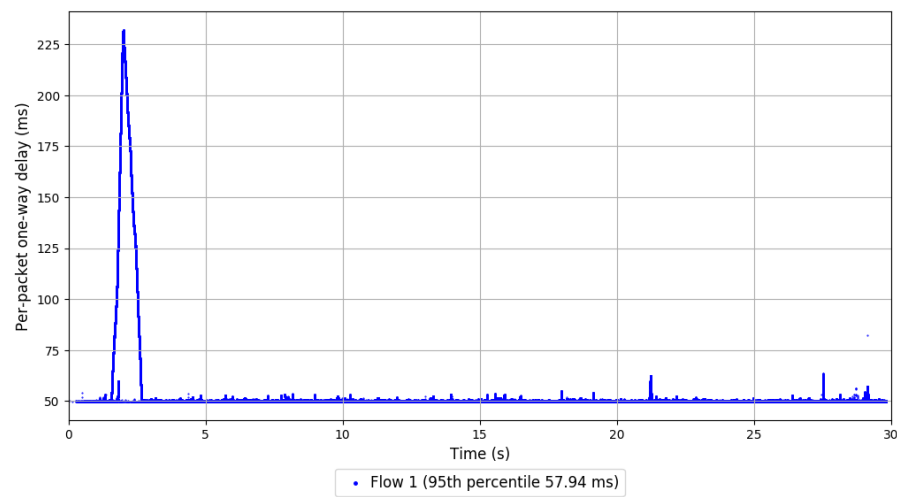
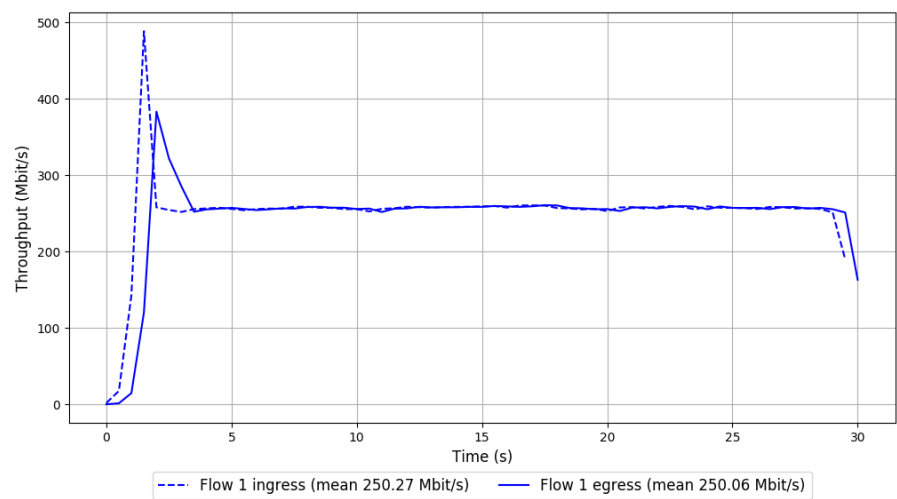
-- Flow 1:

Average throughput: 250.06 Mbit/s

95th percentile per-packet one-way delay: 57.938 ms

Loss rate: 0.43%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-06 03:53:53

End at: 2018-07-06 03:54:23

Local clock offset: -0.431 ms

Remote clock offset: 0.094 ms

Below is generated by plot.py at 2018-07-06 06:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 299.45 Mbit/s

95th percentile per-packet one-way delay: 73.506 ms

Loss rate: 0.47%

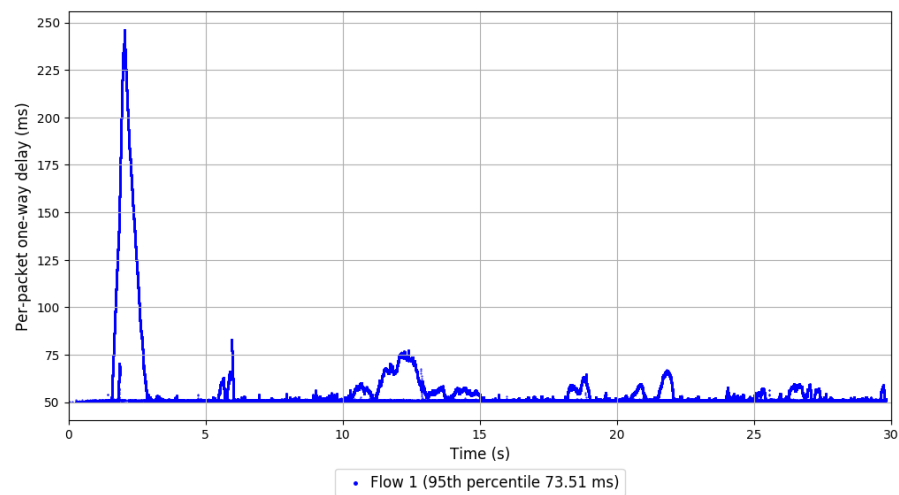
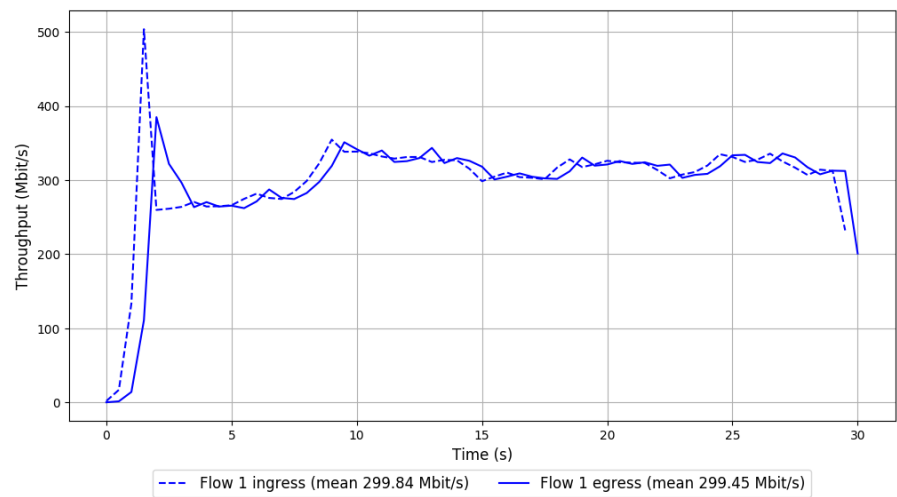
-- Flow 1:

Average throughput: 299.45 Mbit/s

95th percentile per-packet one-way delay: 73.506 ms

Loss rate: 0.47%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-06 04:15:21

End at: 2018-07-06 04:15:52

Local clock offset: -0.992 ms

Remote clock offset: 0.202 ms

Below is generated by plot.py at 2018-07-06 06:17:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.35 Mbit/s

95th percentile per-packet one-way delay: 106.396 ms

Loss rate: 0.38%

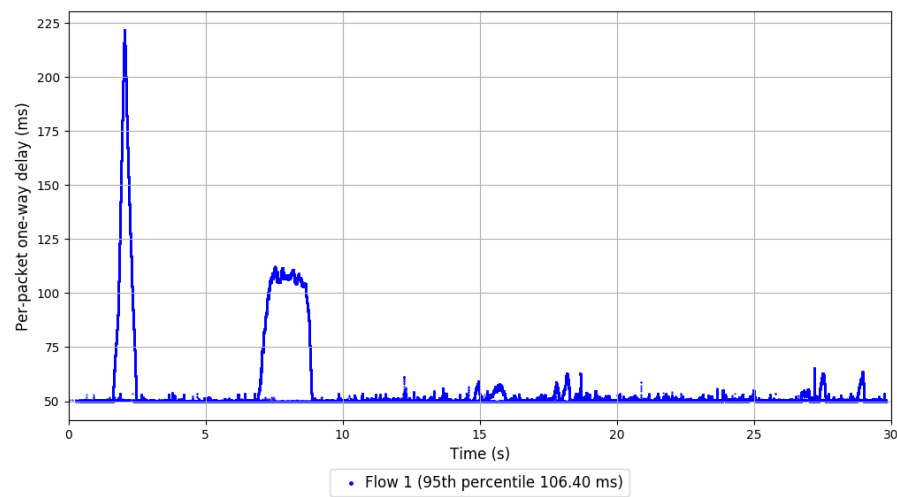
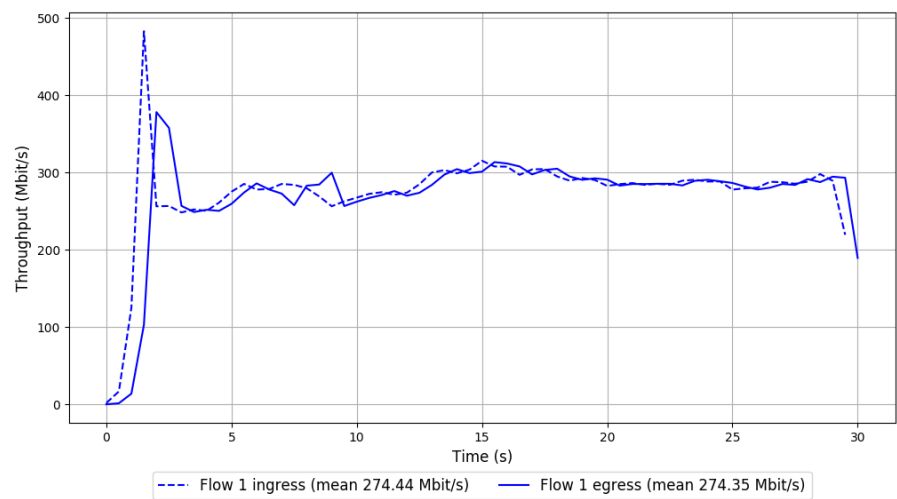
-- Flow 1:

Average throughput: 274.35 Mbit/s

95th percentile per-packet one-way delay: 106.396 ms

Loss rate: 0.38%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-06 04:36:59

End at: 2018-07-06 04:37:29

Local clock offset: -0.778 ms

Remote clock offset: 0.333 ms

Below is generated by plot.py at 2018-07-06 06:18:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 303.59 Mbit/s

95th percentile per-packet one-way delay: 135.375 ms

Loss rate: 0.53%

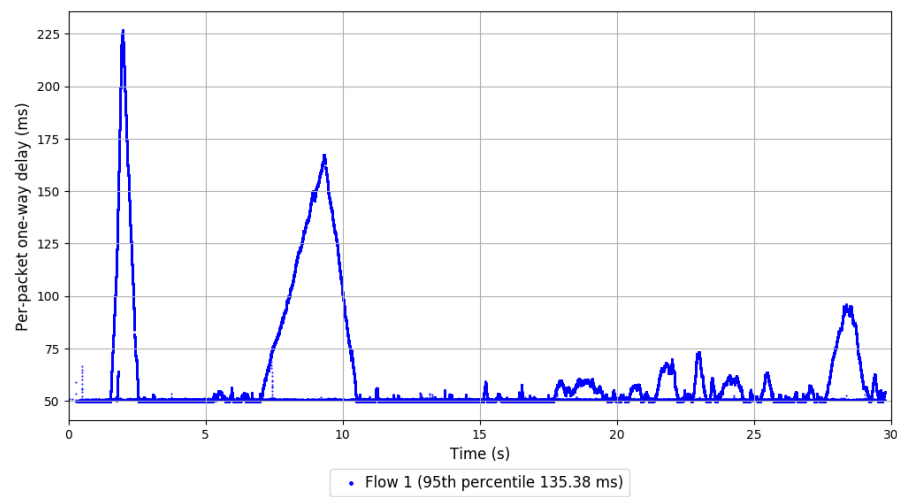
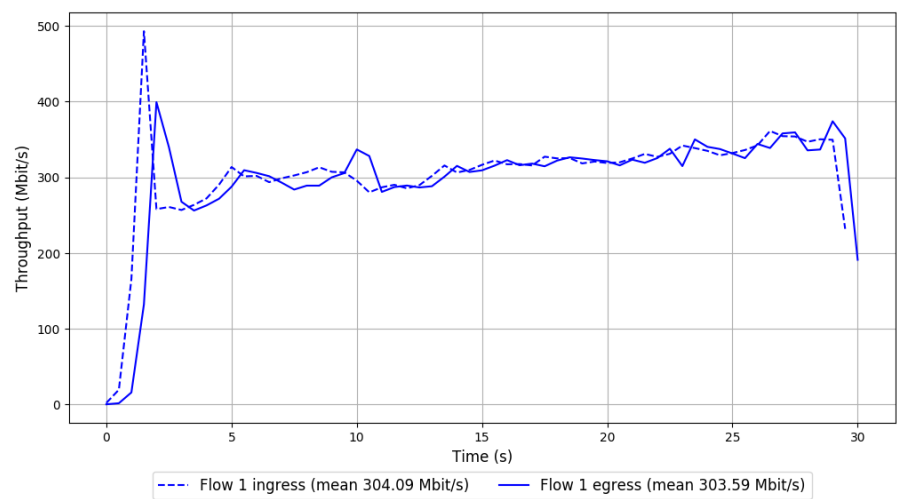
-- Flow 1:

Average throughput: 303.59 Mbit/s

95th percentile per-packet one-way delay: 135.375 ms

Loss rate: 0.53%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-06 04:58:29

End at: 2018-07-06 04:58:59

Local clock offset: 0.0 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2018-07-06 06:18:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 302.48 Mbit/s

95th percentile per-packet one-way delay: 103.100 ms

Loss rate: 0.45%

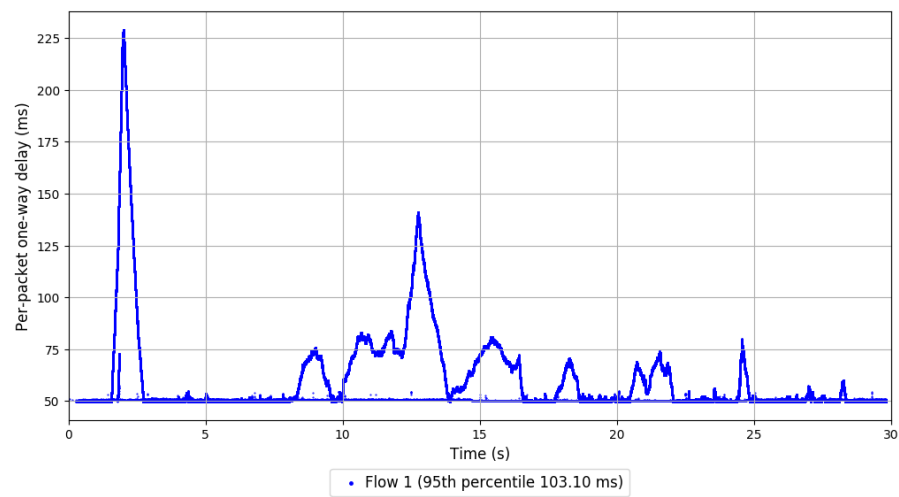
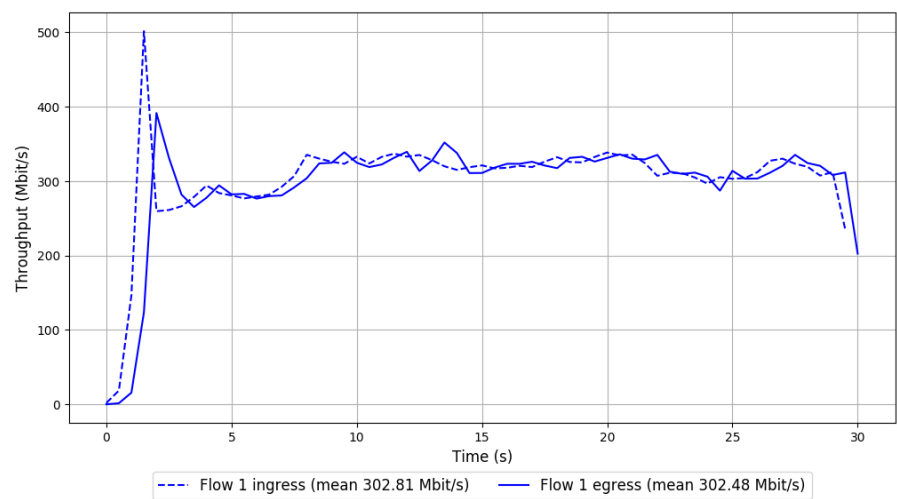
-- Flow 1:

Average throughput: 302.48 Mbit/s

95th percentile per-packet one-way delay: 103.100 ms

Loss rate: 0.45%

Run 10: Report of PCC-Allegro — Data Link

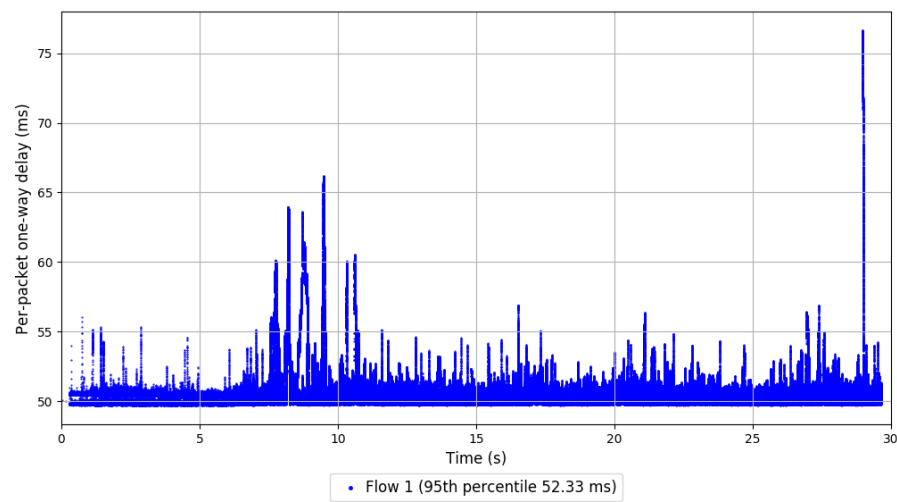
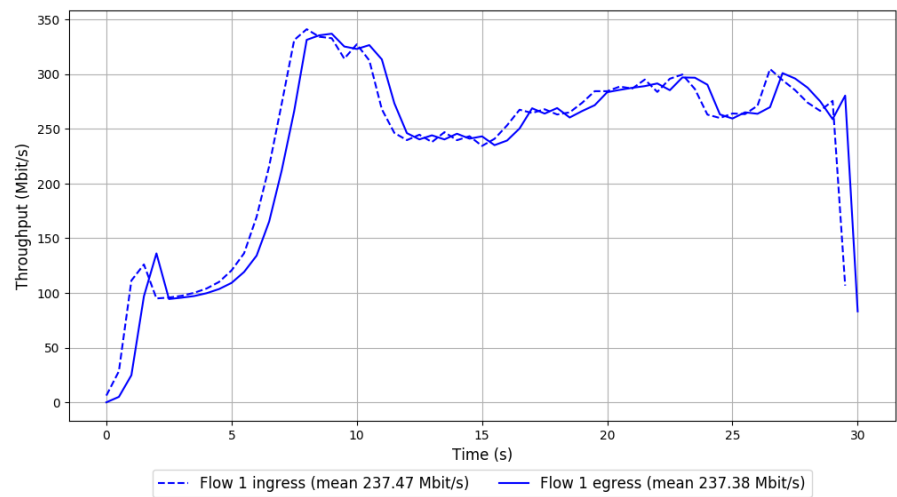


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-06 01:39:30
End at: 2018-07-06 01:40:00
Local clock offset: 0.014 ms
Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2018-07-06 06:21:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 237.38 Mbit/s
95th percentile per-packet one-way delay: 52.332 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 237.38 Mbit/s
95th percentile per-packet one-way delay: 52.332 ms
Loss rate: 0.37%
```


Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-07-06 02:00:52

End at: 2018-07-06 02:01:22

Local clock offset: 0.374 ms

Remote clock offset: -0.0 ms

Below is generated by plot.py at 2018-07-06 06:23:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 283.40 Mbit/s

95th percentile per-packet one-way delay: 68.162 ms

Loss rate: 0.37%

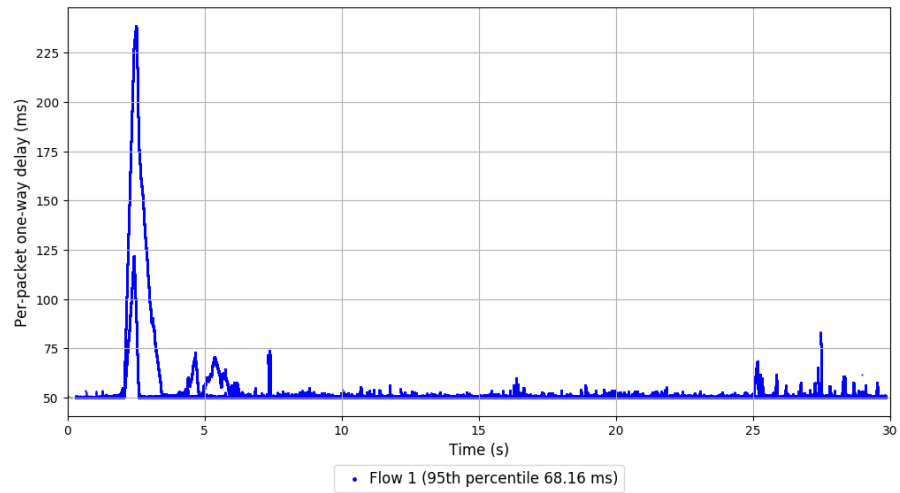
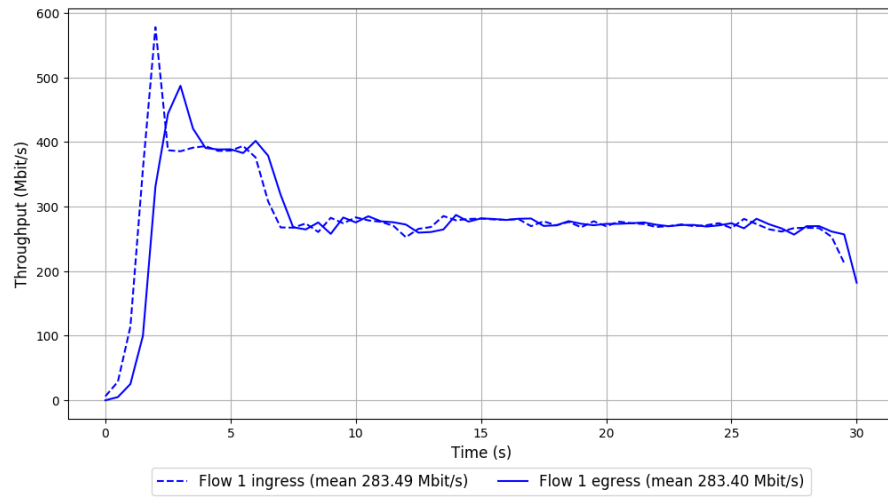
-- Flow 1:

Average throughput: 283.40 Mbit/s

95th percentile per-packet one-way delay: 68.162 ms

Loss rate: 0.37%

Run 2: Report of PCC-Expr — Data Link

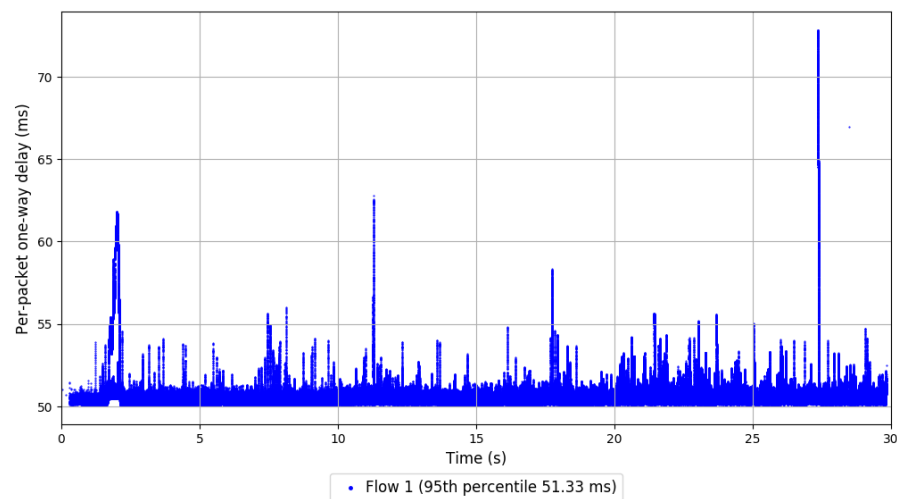
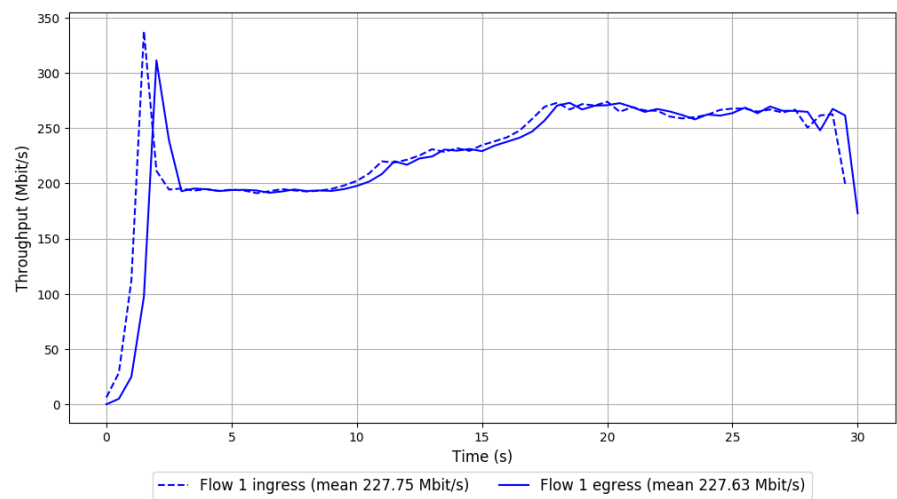


Run 3: Statistics of PCC-Expr

Start at: 2018-07-06 02:22:20
End at: 2018-07-06 02:22:50
Local clock offset: 0.381 ms
Remote clock offset: -0.047 ms

Below is generated by plot.py at 2018-07-06 06:23:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 227.63 Mbit/s
95th percentile per-packet one-way delay: 51.333 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 227.63 Mbit/s
95th percentile per-packet one-way delay: 51.333 ms
Loss rate: 0.39%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-07-06 02:43:42

End at: 2018-07-06 02:44:12

Local clock offset: 0.453 ms

Remote clock offset: -0.244 ms

Below is generated by plot.py at 2018-07-06 06:23:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.03 Mbit/s

95th percentile per-packet one-way delay: 57.557 ms

Loss rate: 0.52%

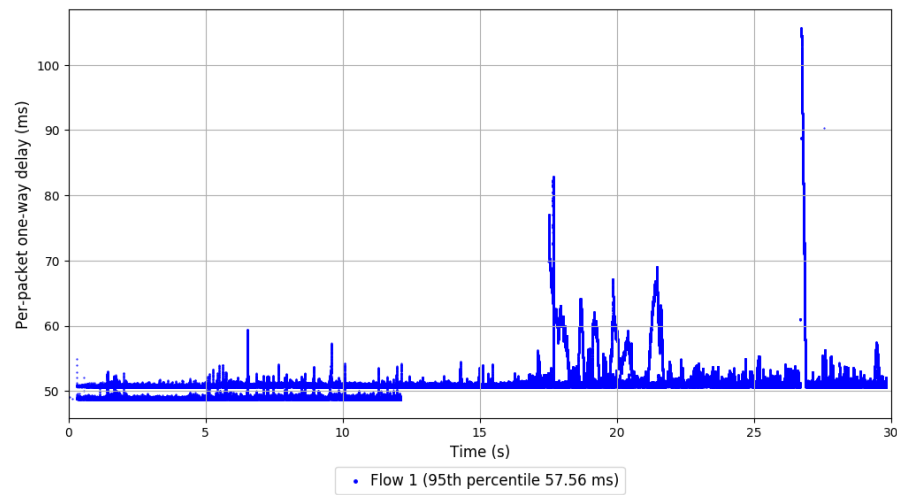
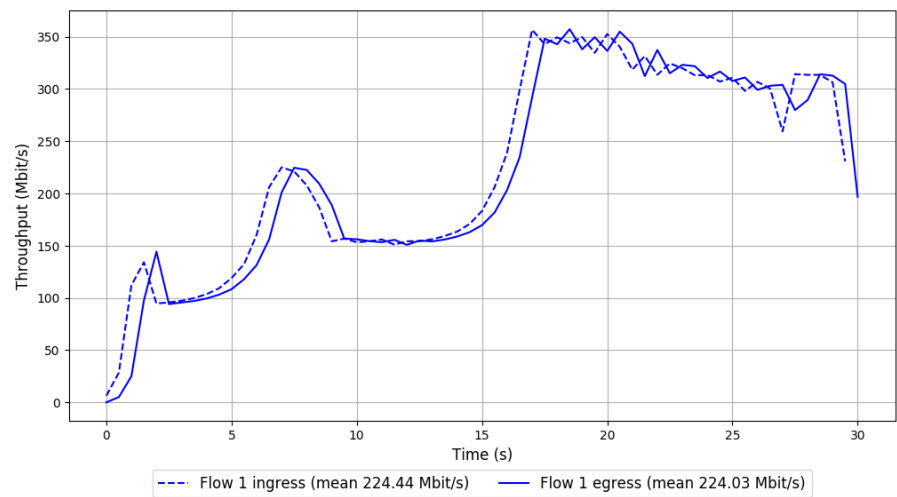
-- Flow 1:

Average throughput: 224.03 Mbit/s

95th percentile per-packet one-way delay: 57.557 ms

Loss rate: 0.52%

Run 4: Report of PCC-Expr — Data Link

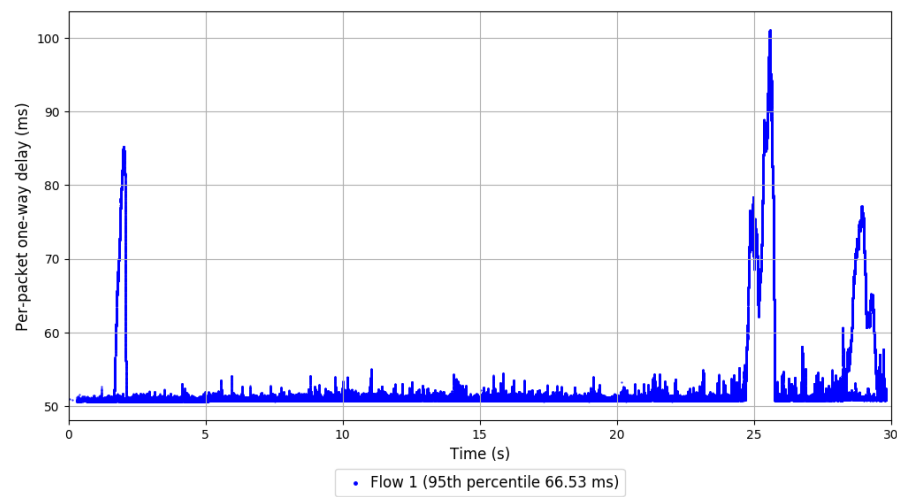
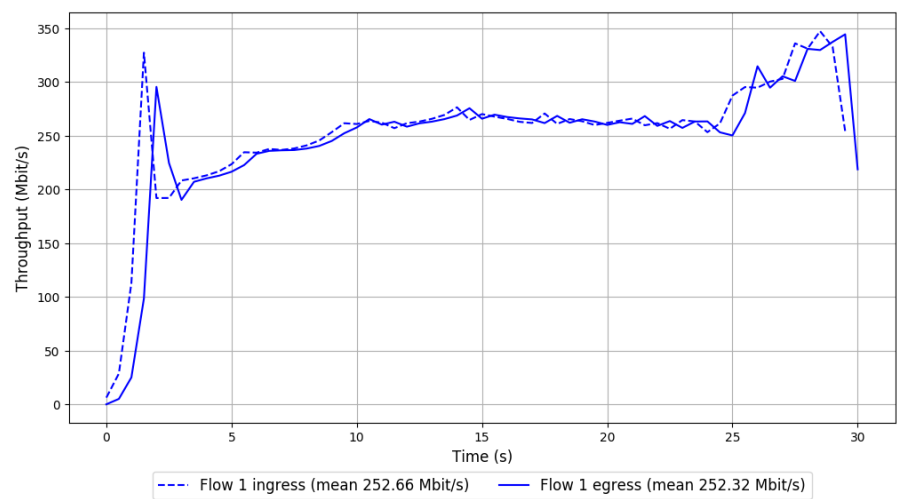


Run 5: Statistics of PCC-Expr

Start at: 2018-07-06 03:05:19
End at: 2018-07-06 03:05:49
Local clock offset: 0.003 ms
Remote clock offset: -0.086 ms

Below is generated by plot.py at 2018-07-06 06:23:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 252.32 Mbit/s
95th percentile per-packet one-way delay: 66.527 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 252.32 Mbit/s
95th percentile per-packet one-way delay: 66.527 ms
Loss rate: 0.48%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-06 03:26:54

End at: 2018-07-06 03:27:24

Local clock offset: -0.307 ms

Remote clock offset: 0.079 ms

Below is generated by plot.py at 2018-07-06 06:24:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 238.91 Mbit/s

95th percentile per-packet one-way delay: 141.186 ms

Loss rate: 0.29%

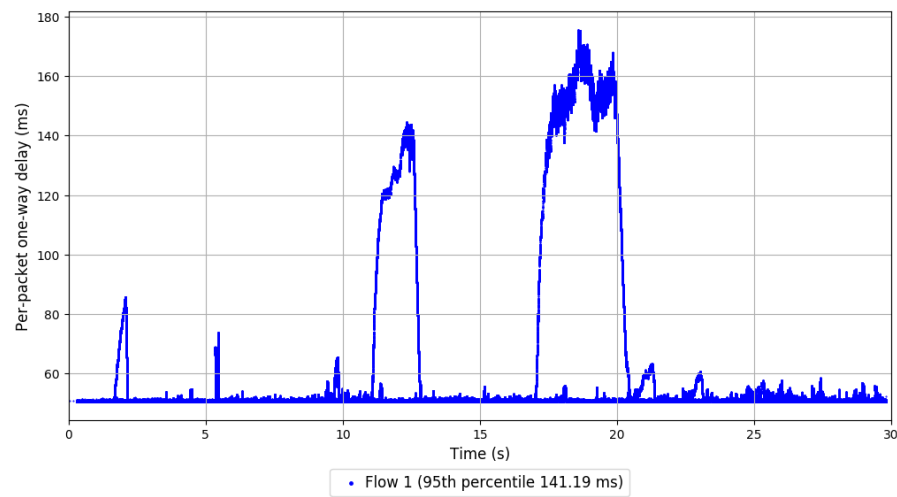
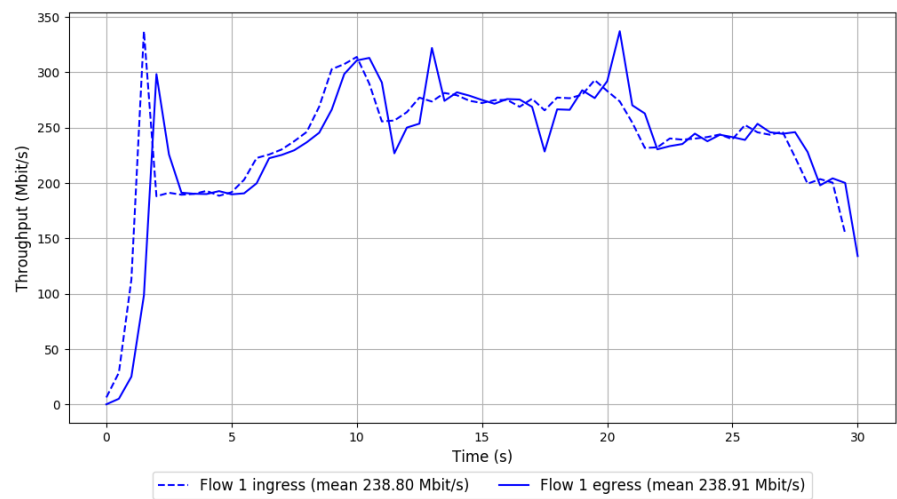
-- Flow 1:

Average throughput: 238.91 Mbit/s

95th percentile per-packet one-way delay: 141.186 ms

Loss rate: 0.29%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-06 03:48:35

End at: 2018-07-06 03:49:05

Local clock offset: -0.814 ms

Remote clock offset: 0.069 ms

Below is generated by plot.py at 2018-07-06 06:28:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 293.97 Mbit/s

95th percentile per-packet one-way delay: 232.116 ms

Loss rate: 1.82%

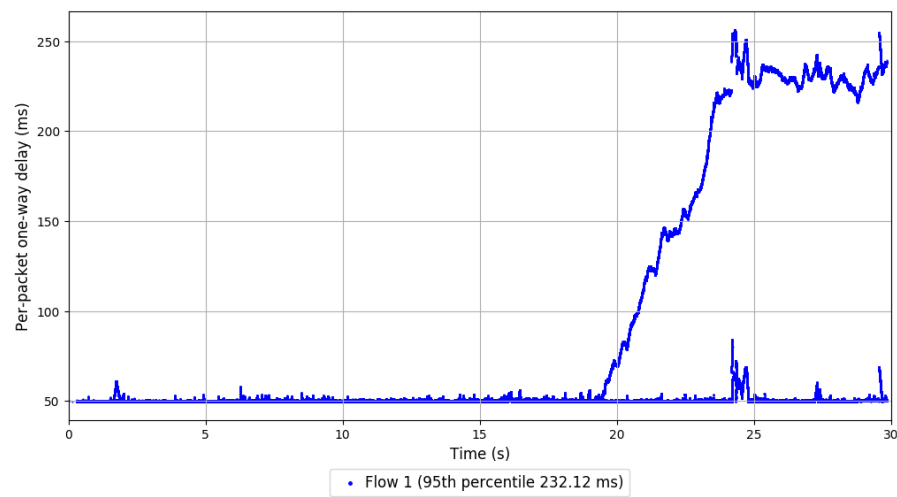
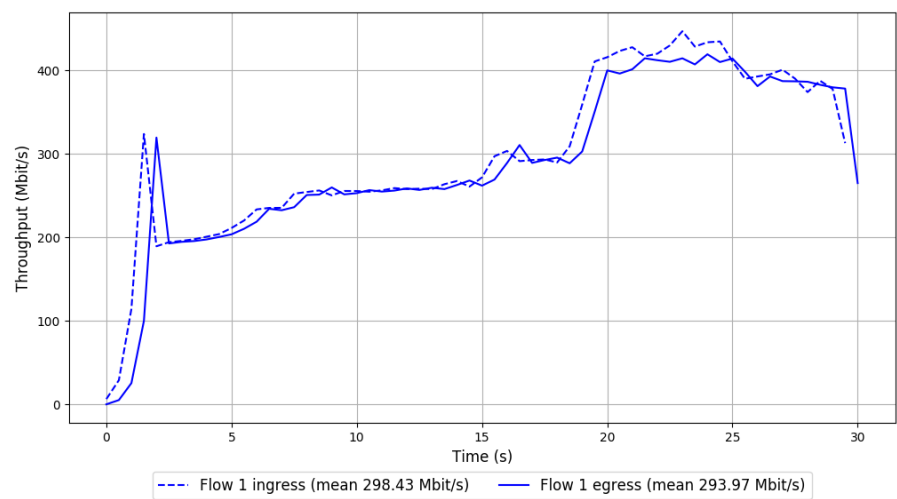
-- Flow 1:

Average throughput: 293.97 Mbit/s

95th percentile per-packet one-way delay: 232.116 ms

Loss rate: 1.82%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-06 04:10:11

End at: 2018-07-06 04:10:41

Local clock offset: -0.97 ms

Remote clock offset: 0.179 ms

Below is generated by plot.py at 2018-07-06 06:28:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.17 Mbit/s

95th percentile per-packet one-way delay: 51.162 ms

Loss rate: 0.35%

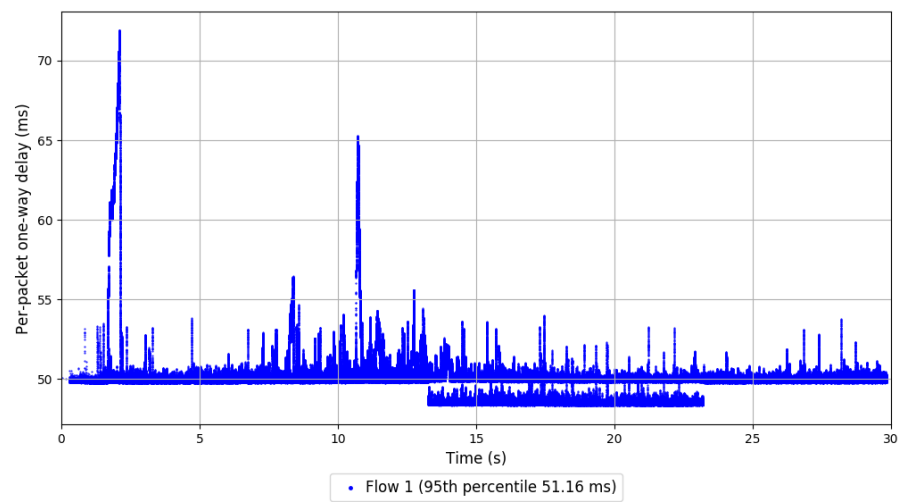
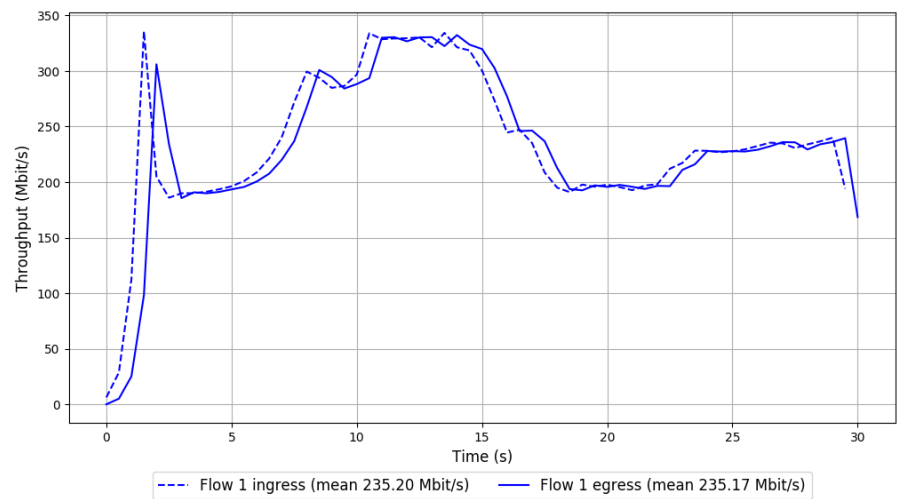
-- Flow 1:

Average throughput: 235.17 Mbit/s

95th percentile per-packet one-way delay: 51.162 ms

Loss rate: 0.35%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-06 04:31:41

End at: 2018-07-06 04:32:11

Local clock offset: -1.138 ms

Remote clock offset: 0.289 ms

Below is generated by plot.py at 2018-07-06 06:29:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.46 Mbit/s

95th percentile per-packet one-way delay: 50.999 ms

Loss rate: 0.41%

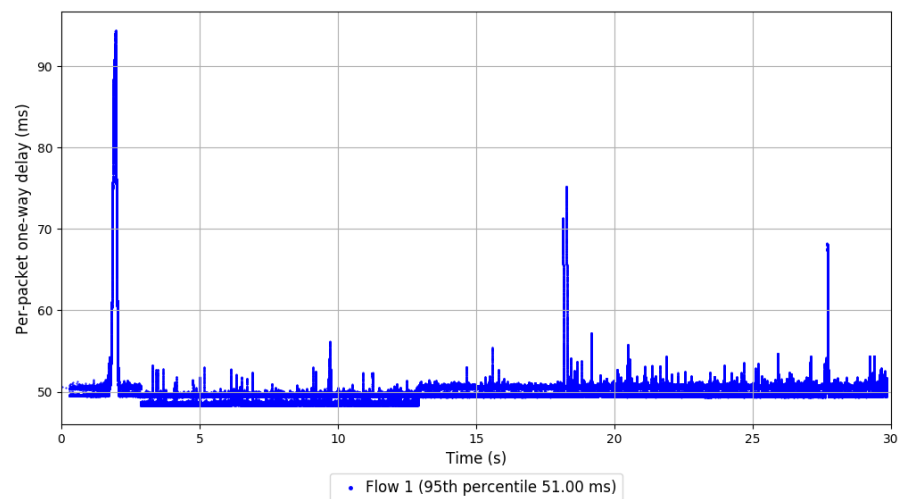
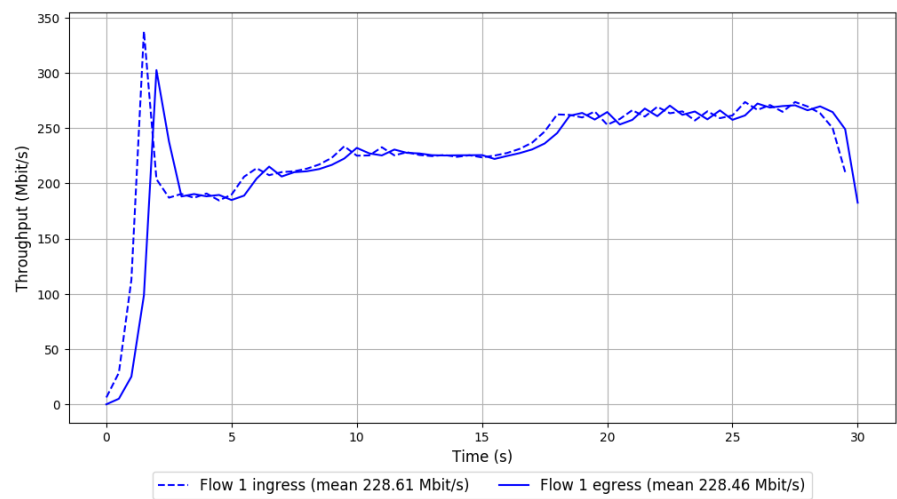
-- Flow 1:

Average throughput: 228.46 Mbit/s

95th percentile per-packet one-way delay: 50.999 ms

Loss rate: 0.41%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-06 04:53:16

End at: 2018-07-06 04:53:46

Local clock offset: -0.071 ms

Remote clock offset: 0.039 ms

Below is generated by plot.py at 2018-07-06 06:29:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.35 Mbit/s

95th percentile per-packet one-way delay: 51.061 ms

Loss rate: 0.39%

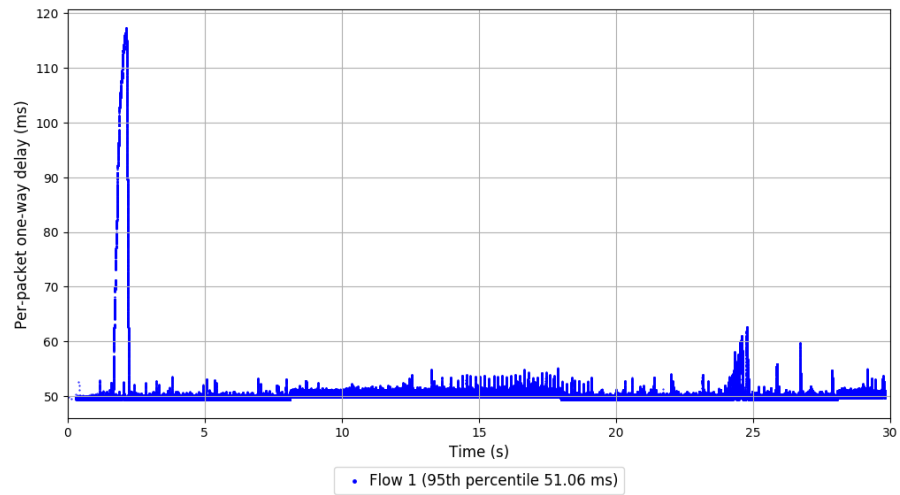
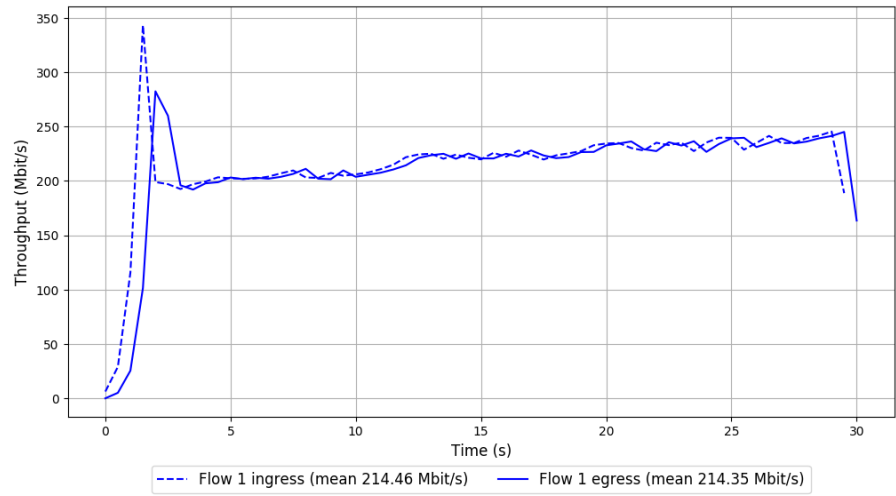
-- Flow 1:

Average throughput: 214.35 Mbit/s

95th percentile per-packet one-way delay: 51.061 ms

Loss rate: 0.39%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

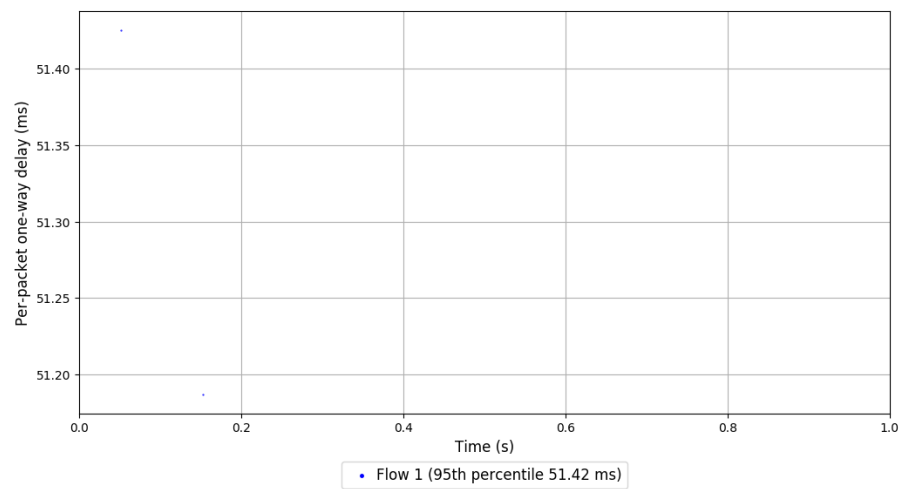
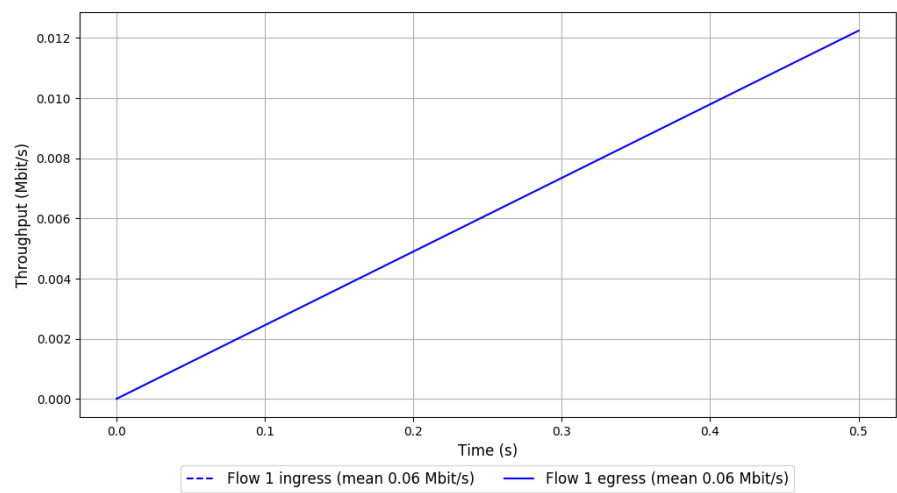
Start at: 2018-07-06 01:50:05

End at: 2018-07-06 01:50:35

Local clock offset: 0.714 ms

Remote clock offset: -0.05 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-06 02:11:35

End at: 2018-07-06 02:12:05

Local clock offset: 0.789 ms

Remote clock offset: -0.063 ms

Below is generated by plot.py at 2018-07-06 06:29:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.85 Mbit/s

95th percentile per-packet one-way delay: 50.885 ms

Loss rate: 0.39%

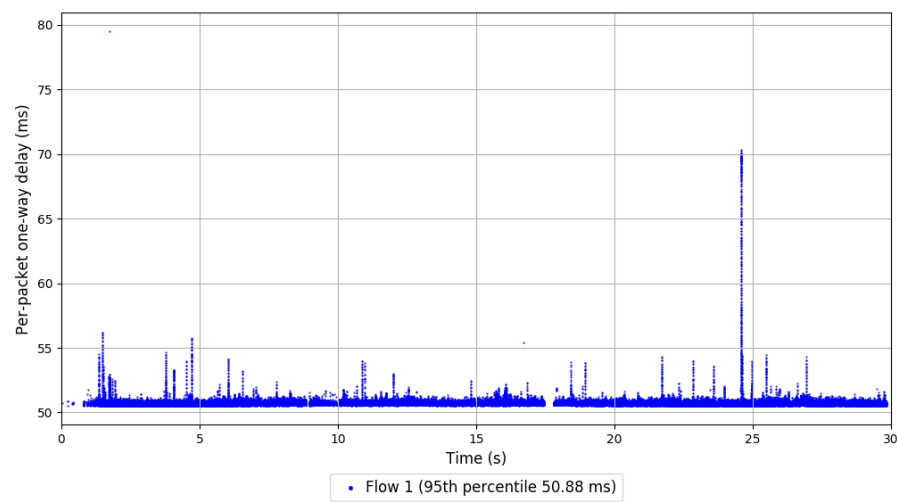
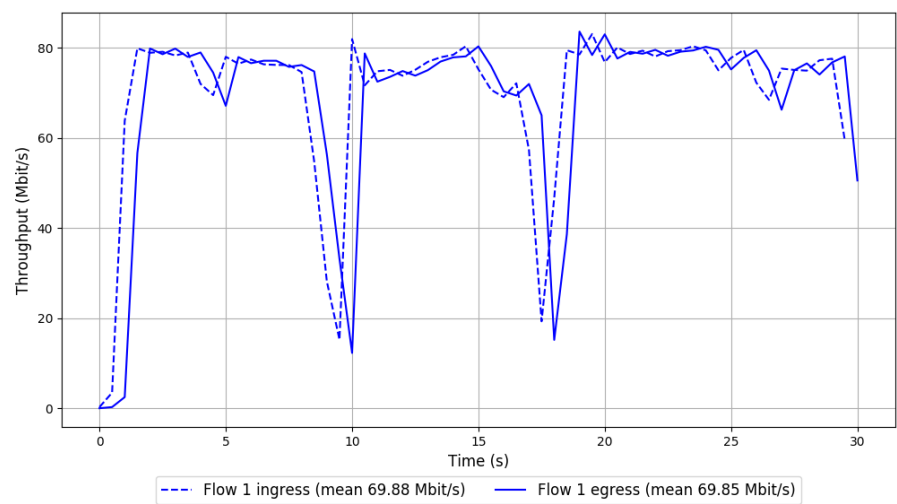
-- Flow 1:

Average throughput: 69.85 Mbit/s

95th percentile per-packet one-way delay: 50.885 ms

Loss rate: 0.39%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-06 02:32:47

End at: 2018-07-06 02:33:17

Local clock offset: 0.469 ms

Remote clock offset: -0.229 ms

Below is generated by plot.py at 2018-07-06 06:29:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.70 Mbit/s

95th percentile per-packet one-way delay: 51.127 ms

Loss rate: 0.39%

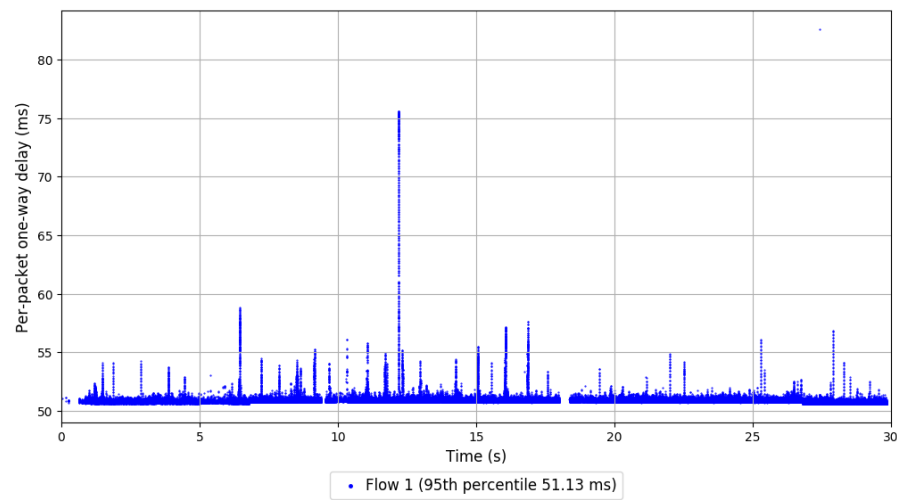
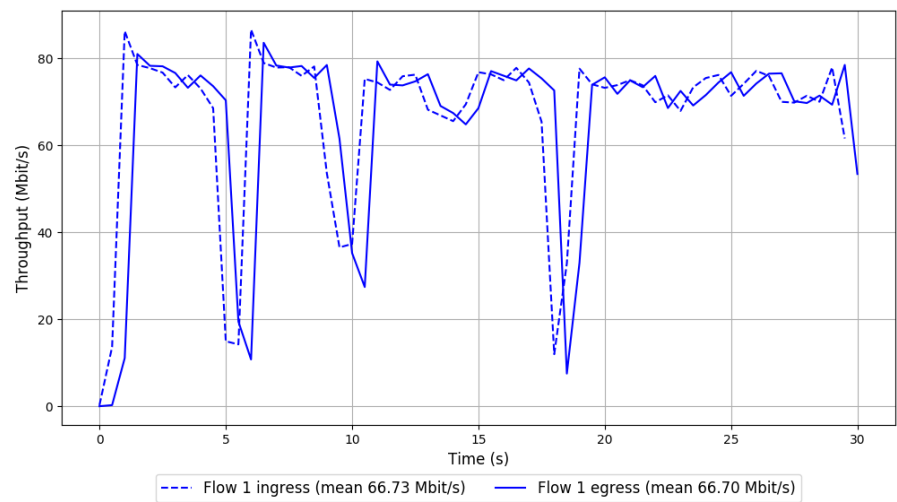
-- Flow 1:

Average throughput: 66.70 Mbit/s

95th percentile per-packet one-way delay: 51.127 ms

Loss rate: 0.39%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-06 02:54:14

End at: 2018-07-06 02:54:44

Local clock offset: 0.42 ms

Remote clock offset: -0.299 ms

Below is generated by plot.py at 2018-07-06 06:29:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.17 Mbit/s

95th percentile per-packet one-way delay: 50.963 ms

Loss rate: 0.35%

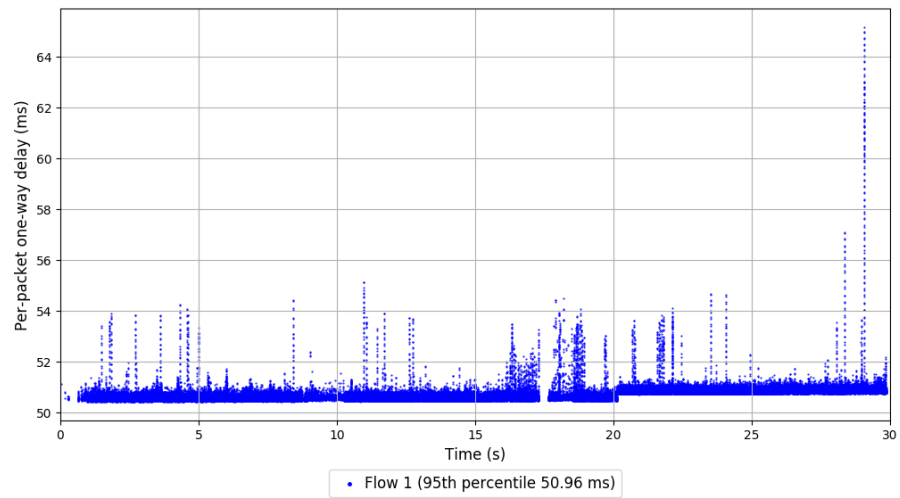
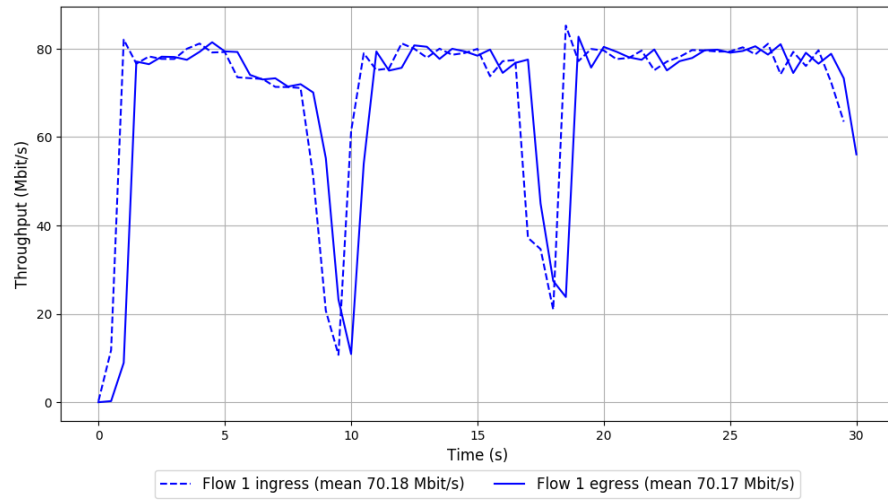
-- Flow 1:

Average throughput: 70.17 Mbit/s

95th percentile per-packet one-way delay: 50.963 ms

Loss rate: 0.35%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-07-06 03:15:55

End at: 2018-07-06 03:16:25

Local clock offset: -0.181 ms

Remote clock offset: 0.055 ms

Below is generated by plot.py at 2018-07-06 06:29:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.44 Mbit/s

95th percentile per-packet one-way delay: 50.918 ms

Loss rate: 0.42%

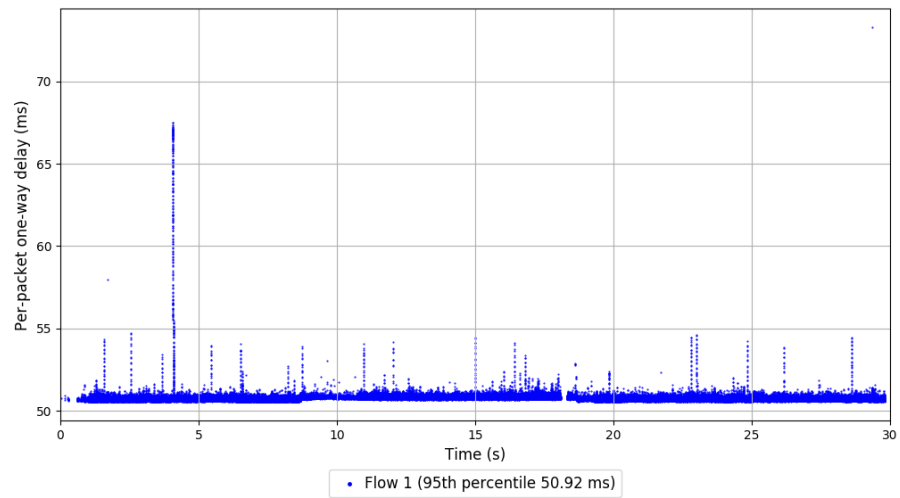
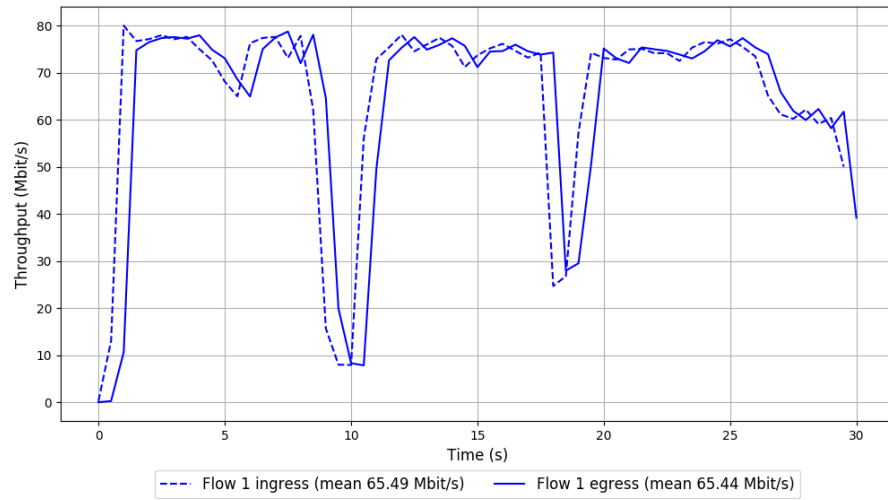
-- Flow 1:

Average throughput: 65.44 Mbit/s

95th percentile per-packet one-way delay: 50.918 ms

Loss rate: 0.42%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-06 03:37:35

End at: 2018-07-06 03:38:05

Local clock offset: -0.755 ms

Remote clock offset: 0.124 ms

Below is generated by plot.py at 2018-07-06 06:29:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.53 Mbit/s

95th percentile per-packet one-way delay: 50.207 ms

Loss rate: 0.38%

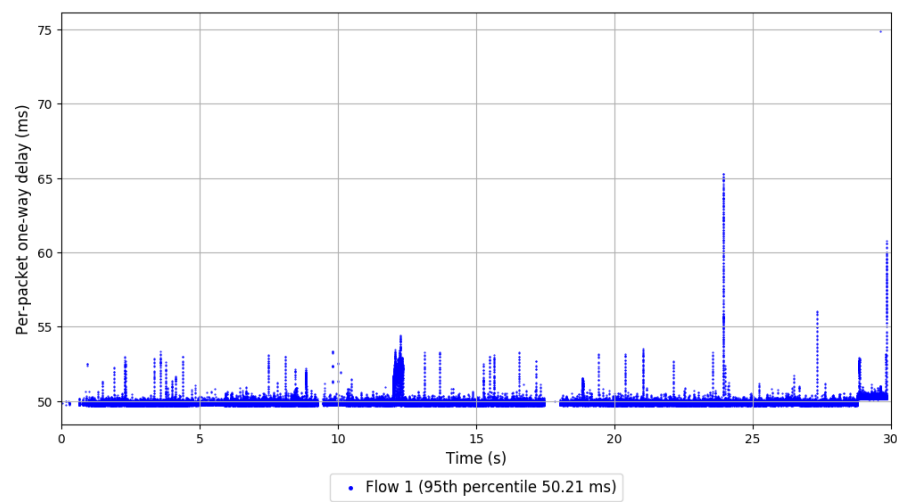
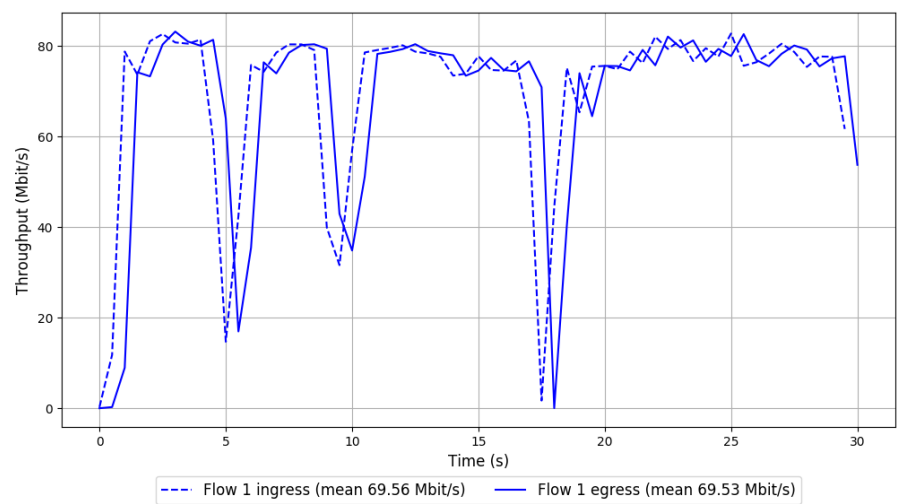
-- Flow 1:

Average throughput: 69.53 Mbit/s

95th percentile per-packet one-way delay: 50.207 ms

Loss rate: 0.38%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-06 03:59:16

End at: 2018-07-06 03:59:46

Local clock offset: -0.53 ms

Remote clock offset: 0.098 ms

Below is generated by plot.py at 2018-07-06 06:29:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.09 Mbit/s

95th percentile per-packet one-way delay: 50.537 ms

Loss rate: 0.43%

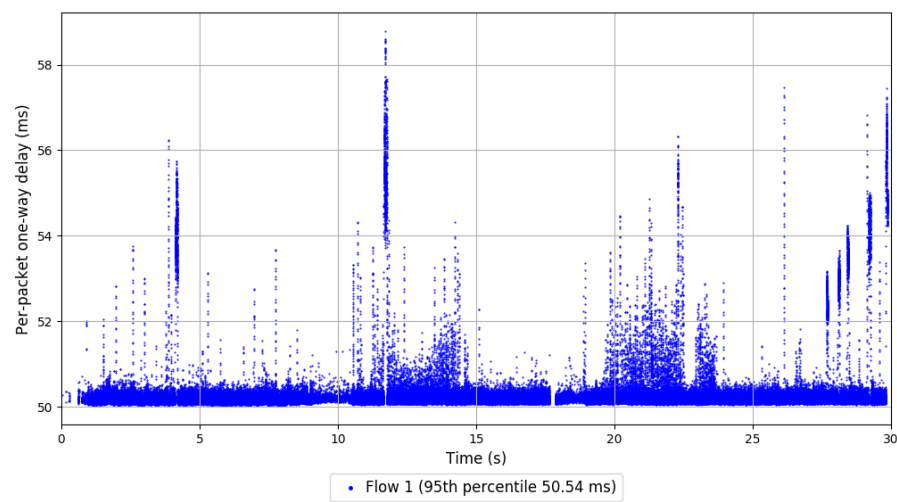
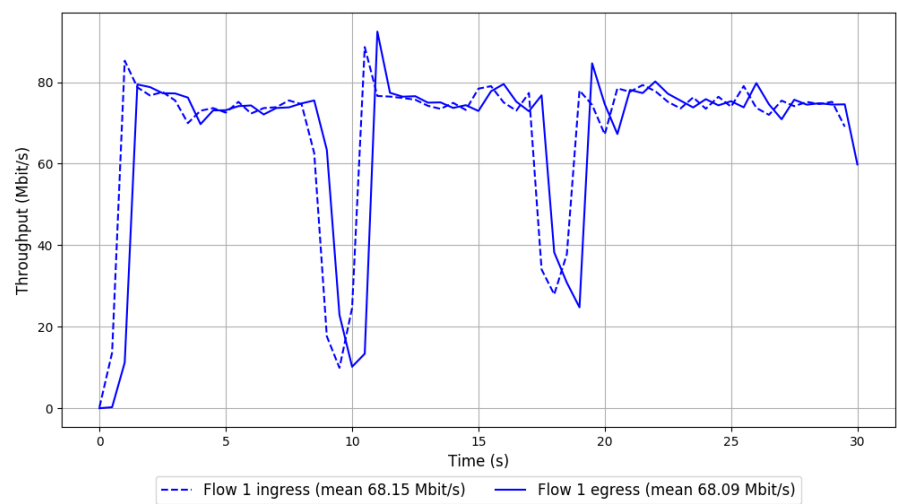
-- Flow 1:

Average throughput: 68.09 Mbit/s

95th percentile per-packet one-way delay: 50.537 ms

Loss rate: 0.43%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-06 04:20:41

End at: 2018-07-06 04:21:11

Local clock offset: -1.057 ms

Remote clock offset: 0.261 ms

Below is generated by plot.py at 2018-07-06 06:29:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.51 Mbit/s

95th percentile per-packet one-way delay: 50.423 ms

Loss rate: 0.38%

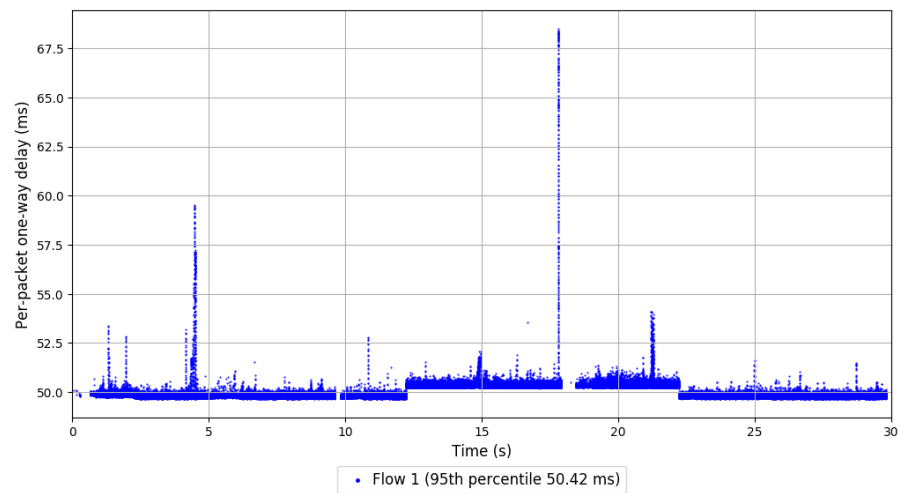
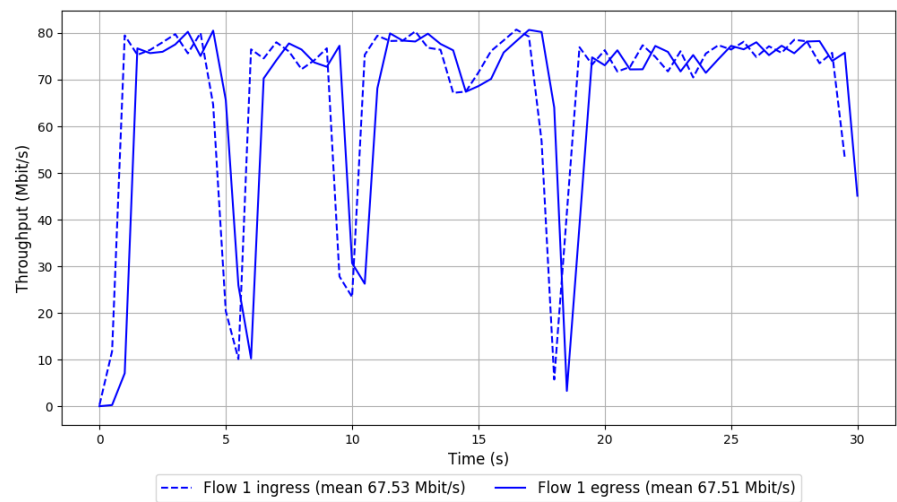
-- Flow 1:

Average throughput: 67.51 Mbit/s

95th percentile per-packet one-way delay: 50.423 ms

Loss rate: 0.38%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-06 04:42:11

End at: 2018-07-06 04:42:41

Local clock offset: -0.41 ms

Remote clock offset: 0.181 ms

Below is generated by plot.py at 2018-07-06 06:29:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.84 Mbit/s

95th percentile per-packet one-way delay: 50.268 ms

Loss rate: 0.40%

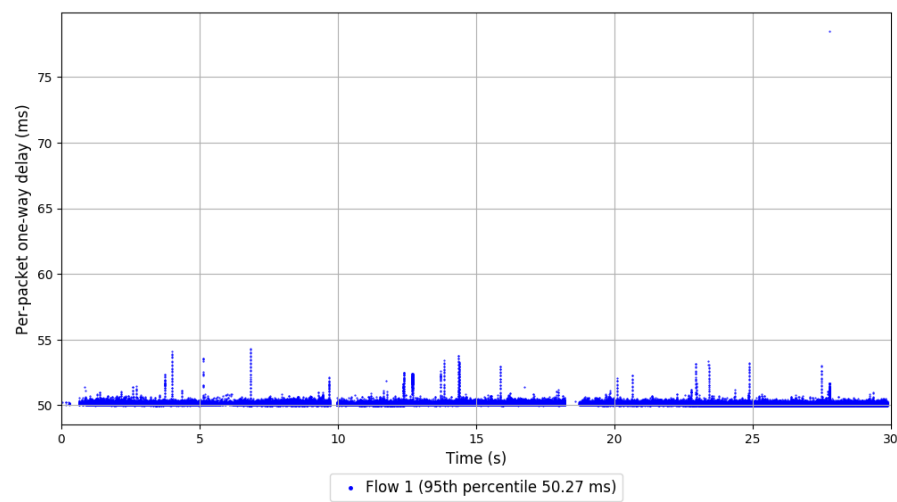
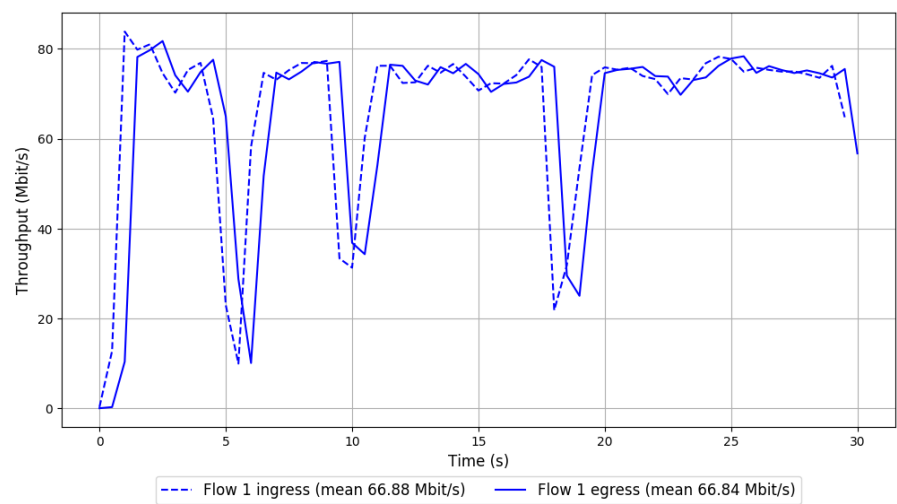
-- Flow 1:

Average throughput: 66.84 Mbit/s

95th percentile per-packet one-way delay: 50.268 ms

Loss rate: 0.40%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-06 05:03:51

End at: 2018-07-06 05:04:21

Local clock offset: 0.036 ms

Remote clock offset: 0.011 ms

Below is generated by plot.py at 2018-07-06 06:29:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.46 Mbit/s

95th percentile per-packet one-way delay: 50.331 ms

Loss rate: 0.39%

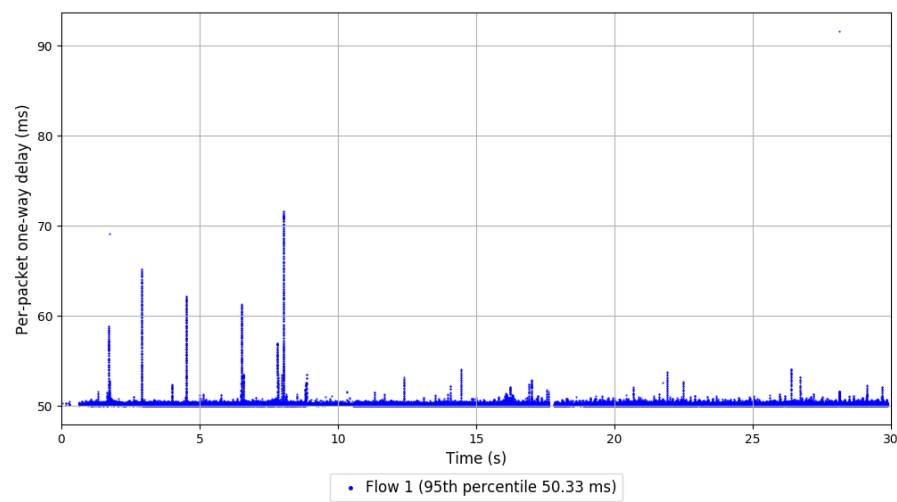
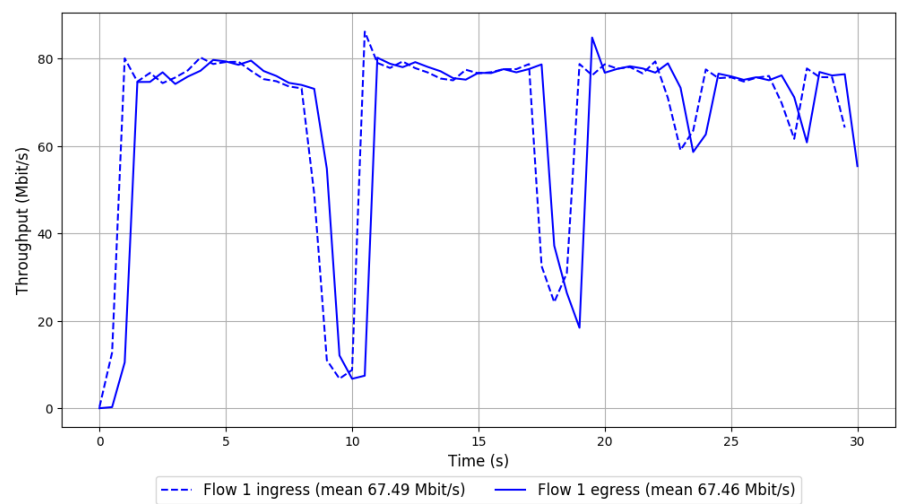
-- Flow 1:

Average throughput: 67.46 Mbit/s

95th percentile per-packet one-way delay: 50.331 ms

Loss rate: 0.39%

Run 10: Report of QUIC Cubic — Data Link

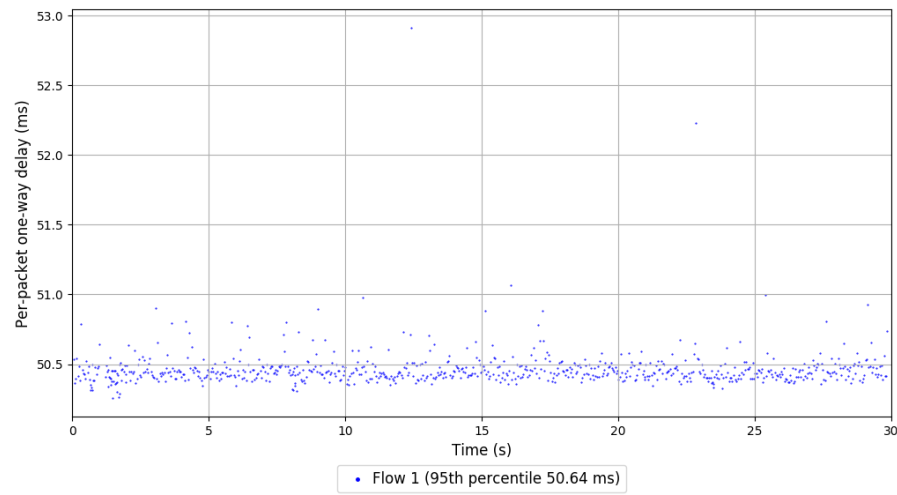
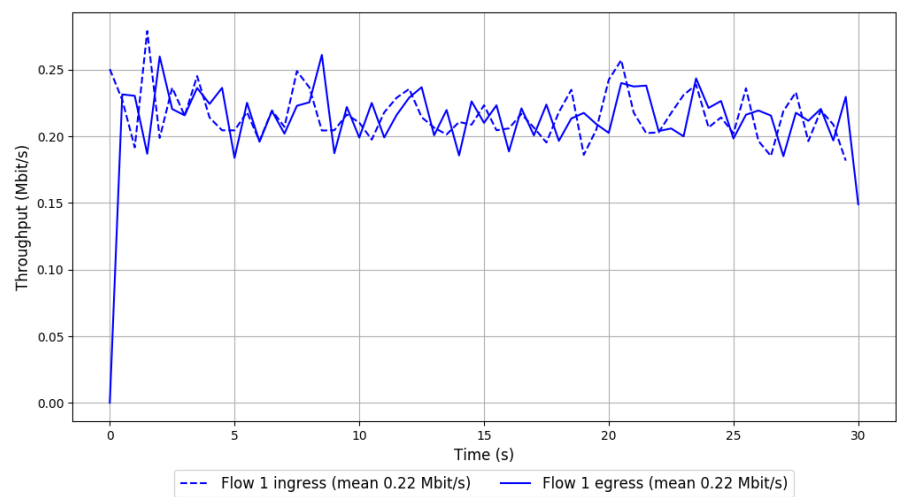


```
Run 1: Statistics of SCReAM

Start at: 2018-07-06 01:55:00
End at: 2018-07-06 01:55:30
Local clock offset: 0.029 ms
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2018-07-06 06:29:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.641 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.641 ms
Loss rate: 0.38%
```


Run 1: Report of SReAM — Data Link

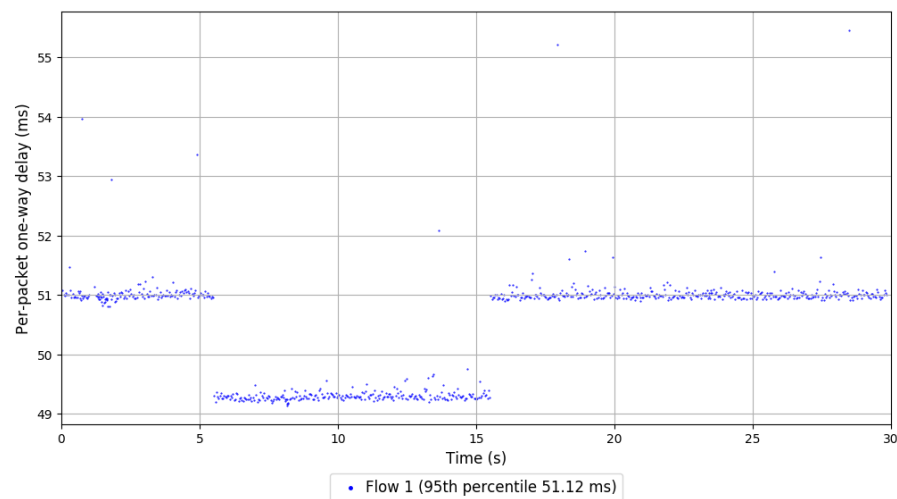
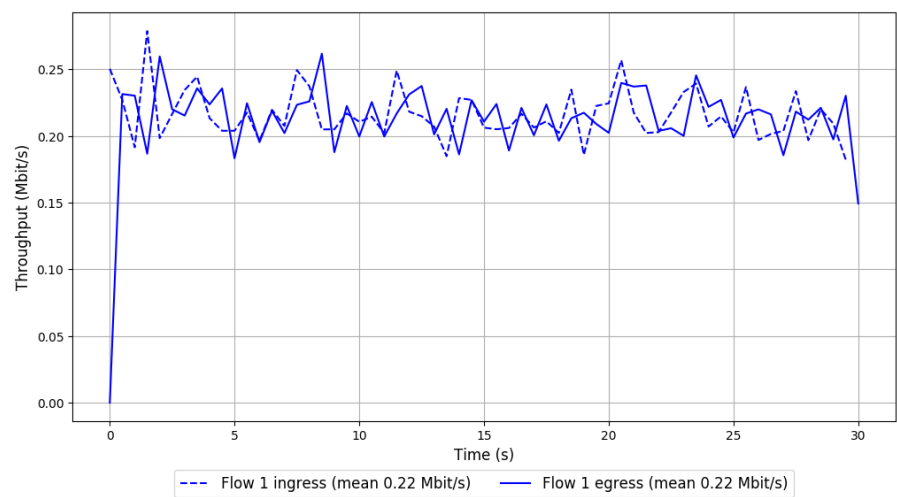


Run 2: Statistics of SCReAM

Start at: 2018-07-06 02:16:28
End at: 2018-07-06 02:16:58
Local clock offset: 0.763 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2018-07-06 06:29:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.117 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.117 ms
Loss rate: 0.38%

Run 2: Report of SReAM — Data Link

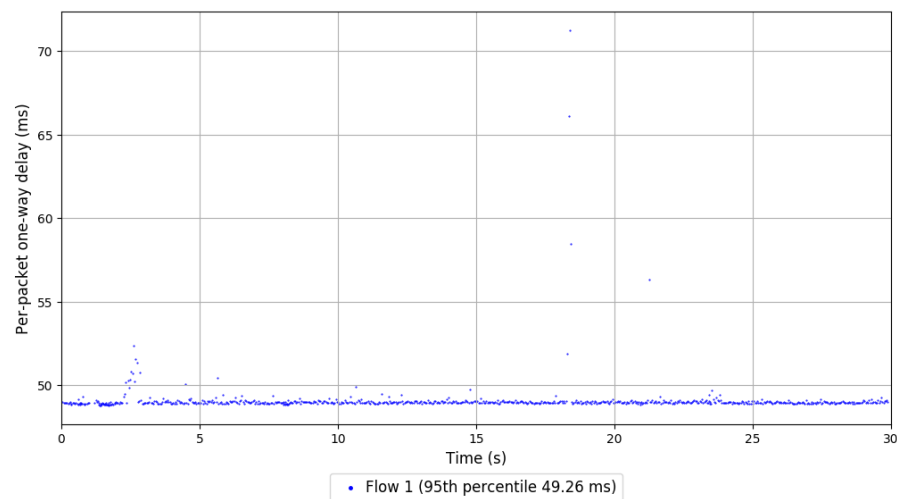
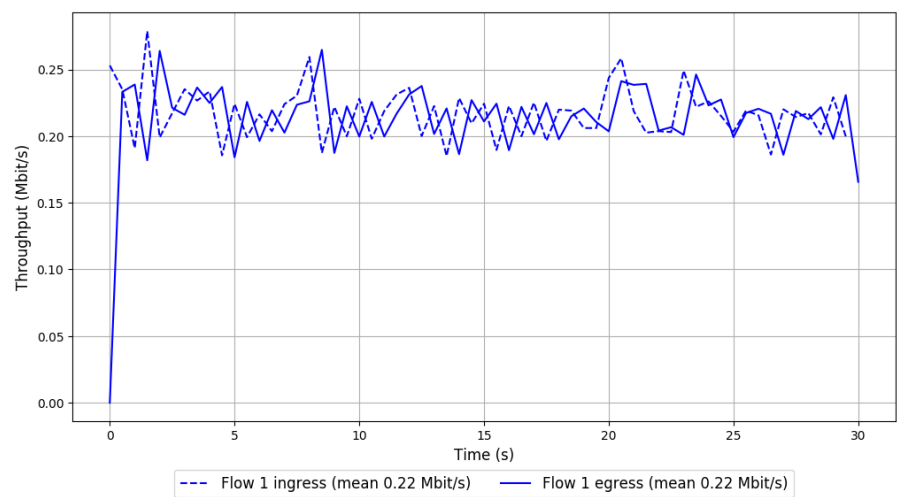


Run 3: Statistics of SCReAM

Start at: 2018-07-06 02:37:38
End at: 2018-07-06 02:38:08
Local clock offset: 0.446 ms
Remote clock offset: -0.204 ms

Below is generated by plot.py at 2018-07-06 06:29:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.259 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.259 ms
Loss rate: 0.39%

Run 3: Report of SReAM — Data Link

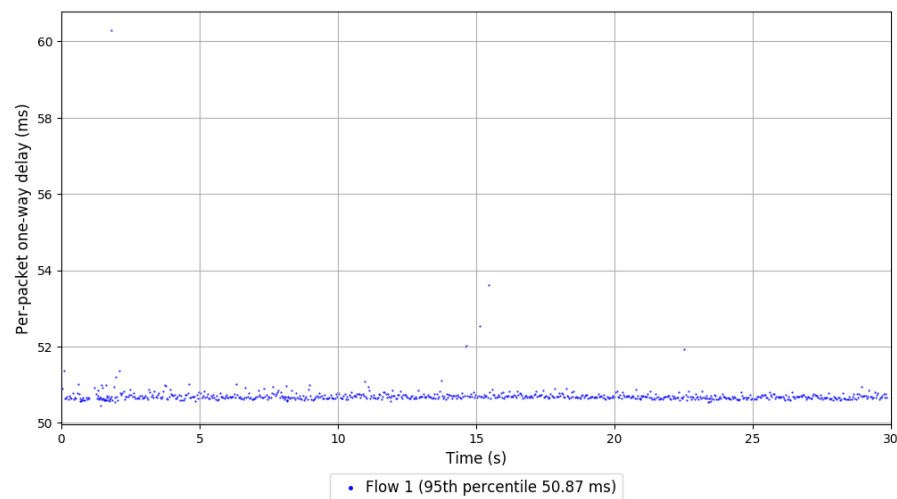
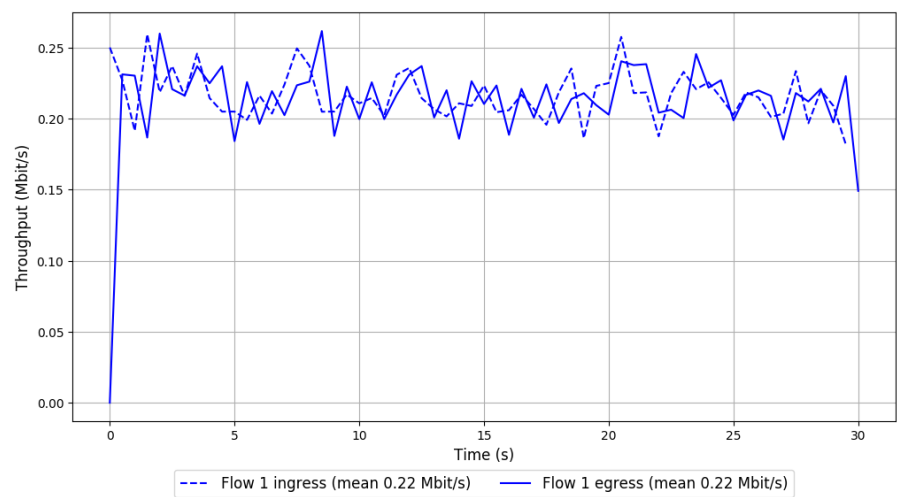


Run 4: Statistics of SCReAM

Start at: 2018-07-06 02:59:09
End at: 2018-07-06 02:59:39
Local clock offset: 0.175 ms
Remote clock offset: -0.164 ms

Below is generated by plot.py at 2018-07-06 06:29:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.866 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.866 ms
Loss rate: 0.38%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-07-06 03:20:52

End at: 2018-07-06 03:21:22

Local clock offset: -0.234 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-07-06 06:29:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.813 ms

Loss rate: 0.26%

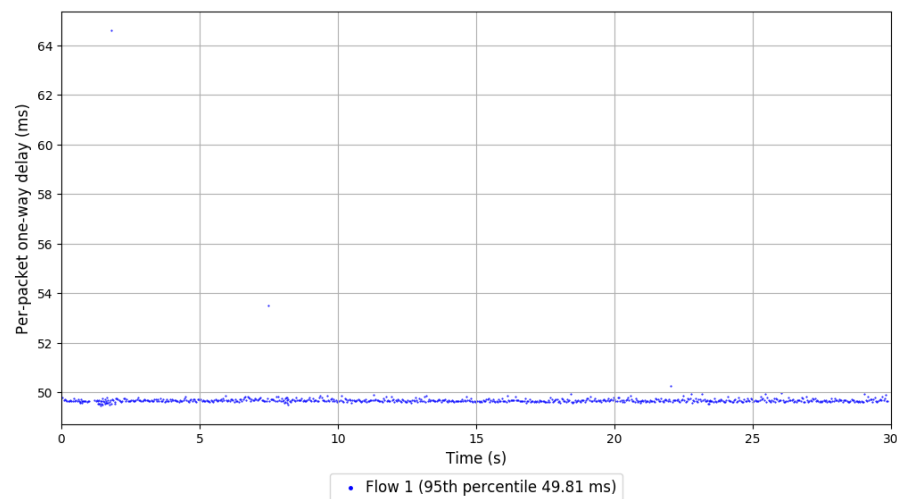
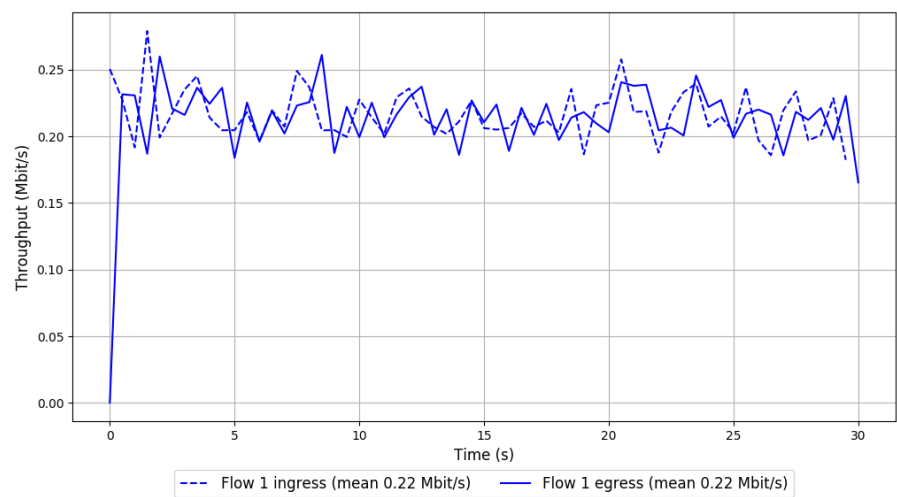
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.813 ms

Loss rate: 0.26%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-07-06 03:42:25

End at: 2018-07-06 03:42:55

Local clock offset: -0.788 ms

Remote clock offset: 0.101 ms

Below is generated by plot.py at 2018-07-06 06:29:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 50.508 ms

Loss rate: 1.04%

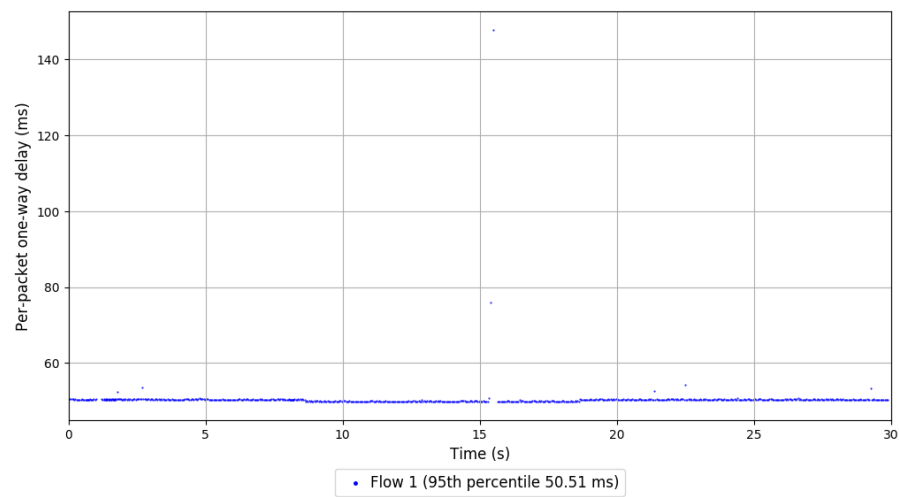
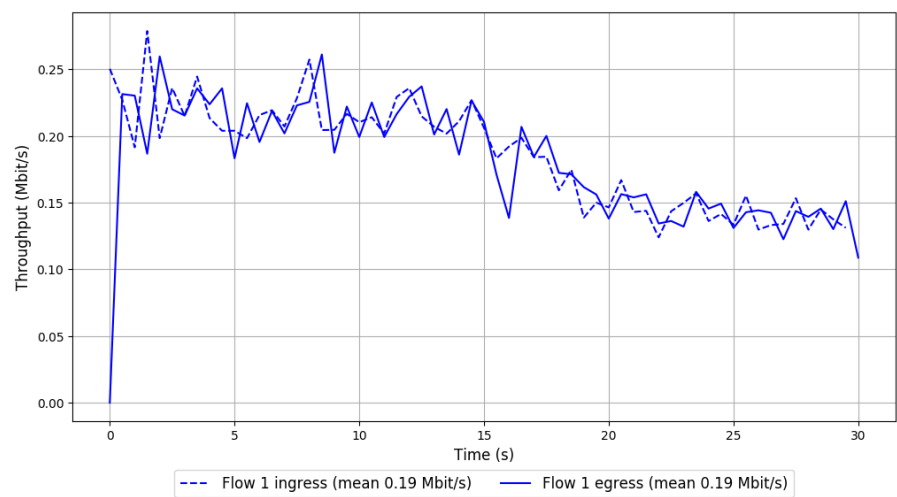
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 50.508 ms

Loss rate: 1.04%

Run 6: Report of SReAM — Data Link

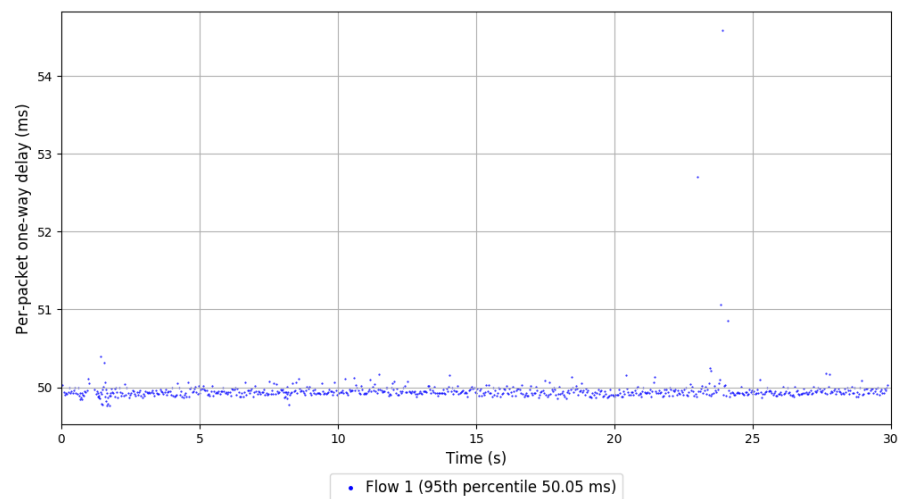
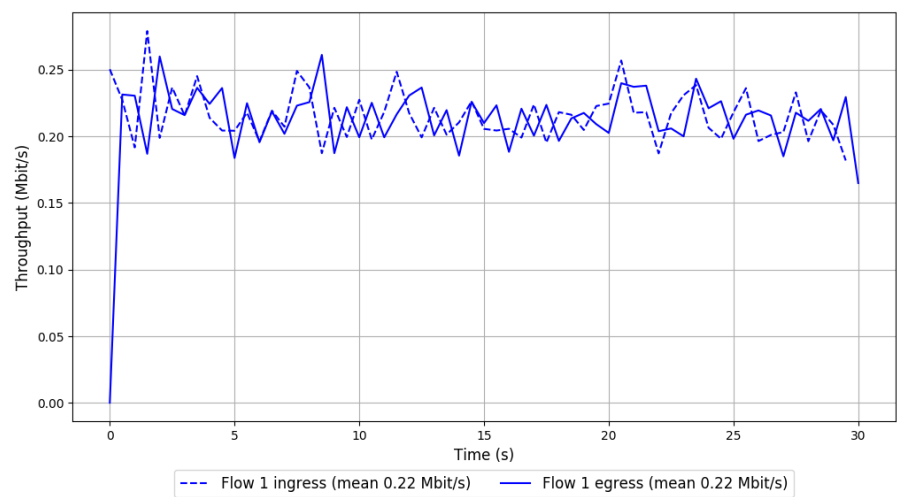


```
Run 7: Statistics of SCReAM

Start at: 2018-07-06 04:04:09
End at: 2018-07-06 04:04:39
Local clock offset: -0.902 ms
Remote clock offset: 0.149 ms

# Below is generated by plot.py at 2018-07-06 06:29:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.052 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.052 ms
Loss rate: 0.26%
```

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-07-06 04:25:37

End at: 2018-07-06 04:26:07

Local clock offset: -0.333 ms

Remote clock offset: 0.29 ms

Below is generated by plot.py at 2018-07-06 06:29:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.782 ms

Loss rate: 0.26%

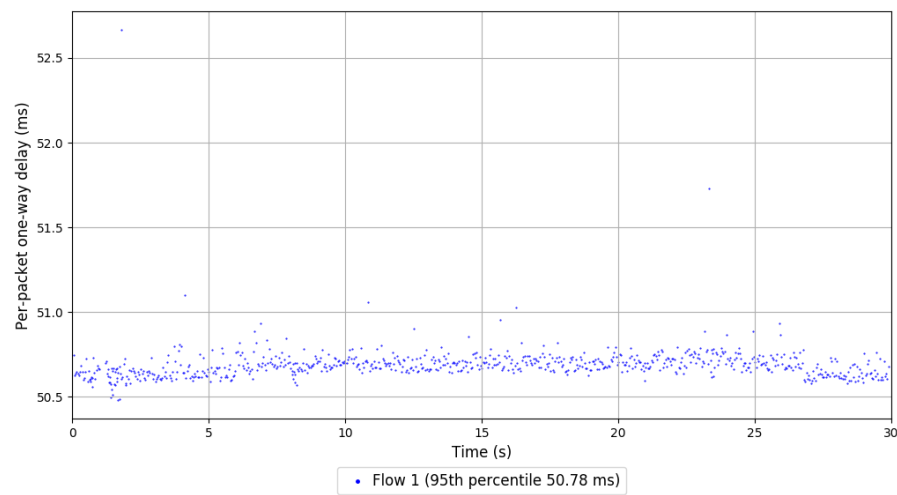
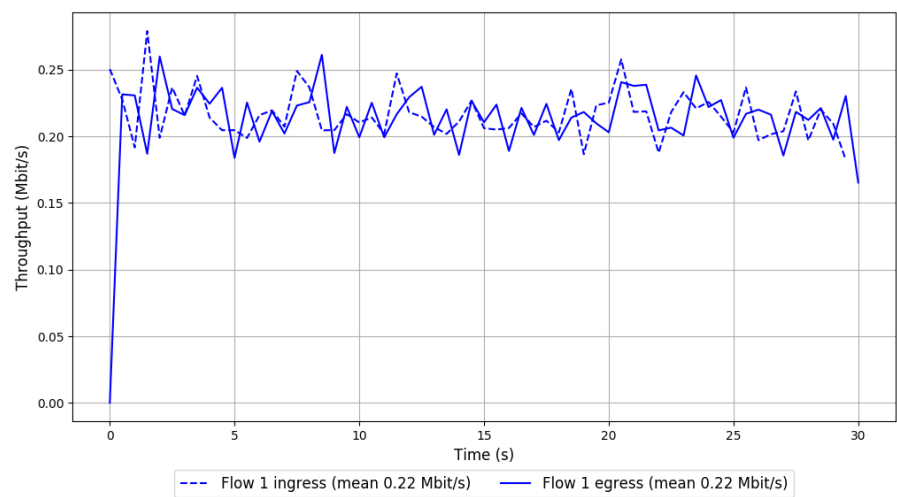
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.782 ms

Loss rate: 0.26%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-07-06 04:47:09

End at: 2018-07-06 04:47:39

Local clock offset: -0.219 ms

Remote clock offset: 0.096 ms

Below is generated by plot.py at 2018-07-06 06:29:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.994 ms

Loss rate: 0.26%

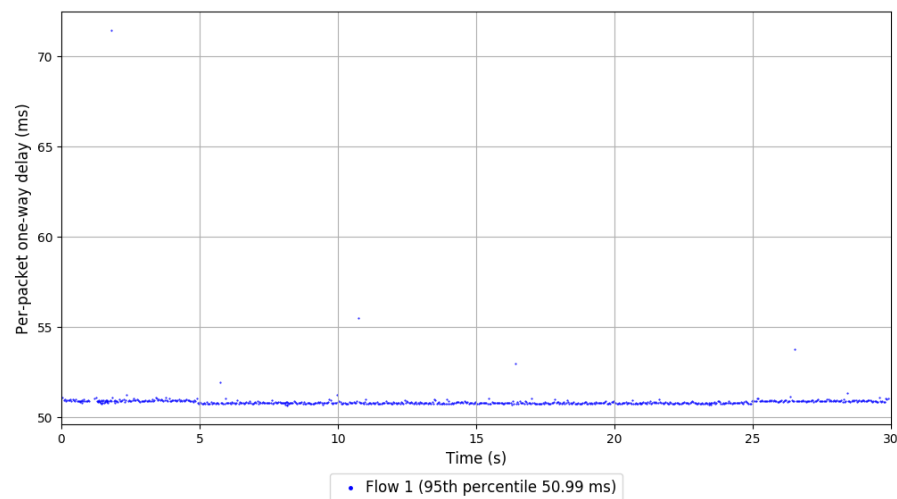
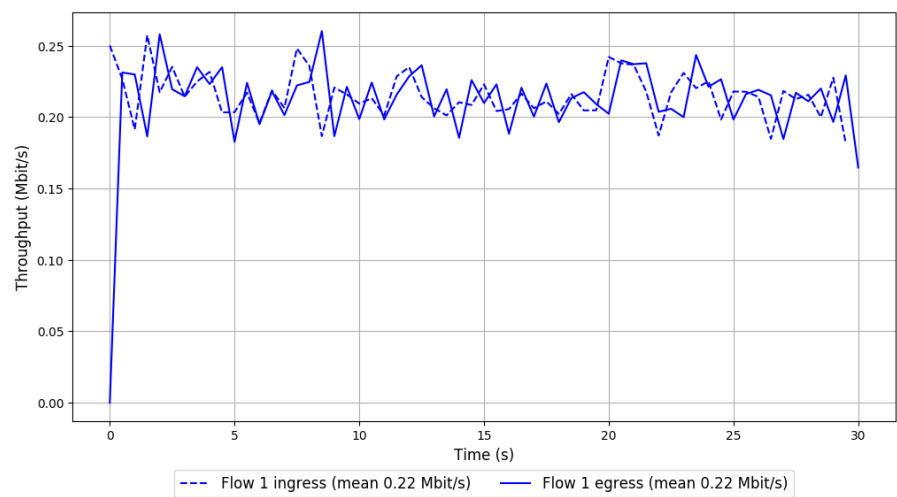
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.994 ms

Loss rate: 0.26%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-07-06 05:08:40

End at: 2018-07-06 05:09:10

Local clock offset: -0.308 ms

Remote clock offset: -0.01 ms

Below is generated by plot.py at 2018-07-06 06:29:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.997 ms

Loss rate: 0.26%

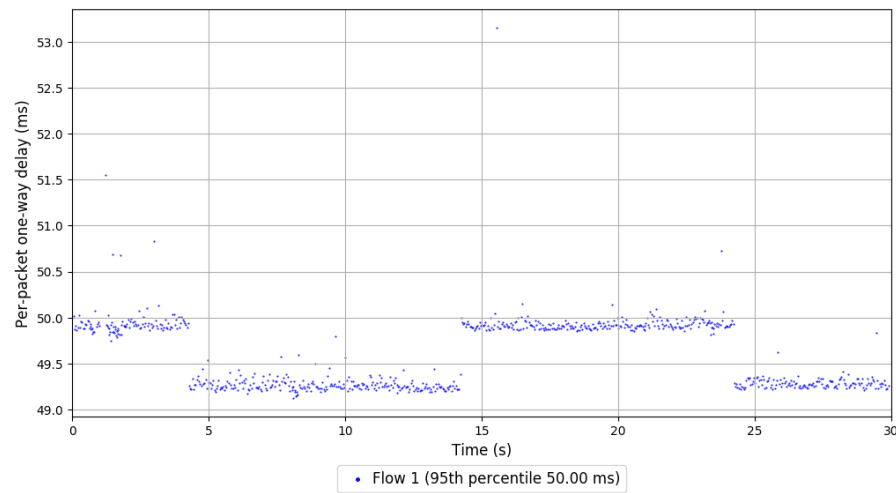
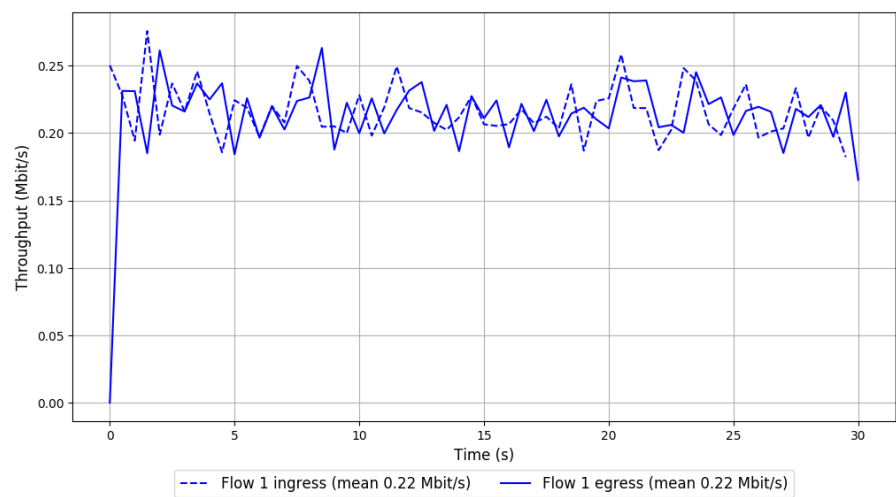
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.997 ms

Loss rate: 0.26%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-06 01:38:24

End at: 2018-07-06 01:38:54

Local clock offset: 0.735 ms

Remote clock offset: -0.01 ms

Below is generated by plot.py at 2018-07-06 06:29:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.77 Mbit/s

95th percentile per-packet one-way delay: 52.150 ms

Loss rate: 0.59%

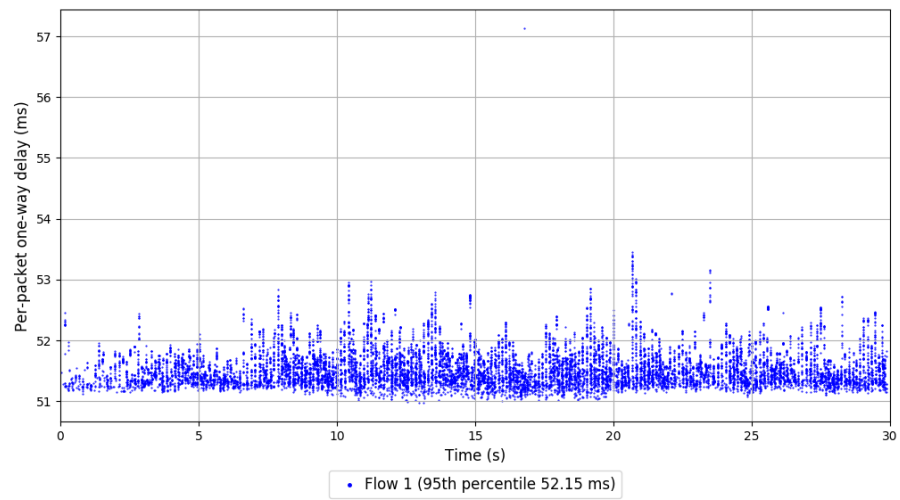
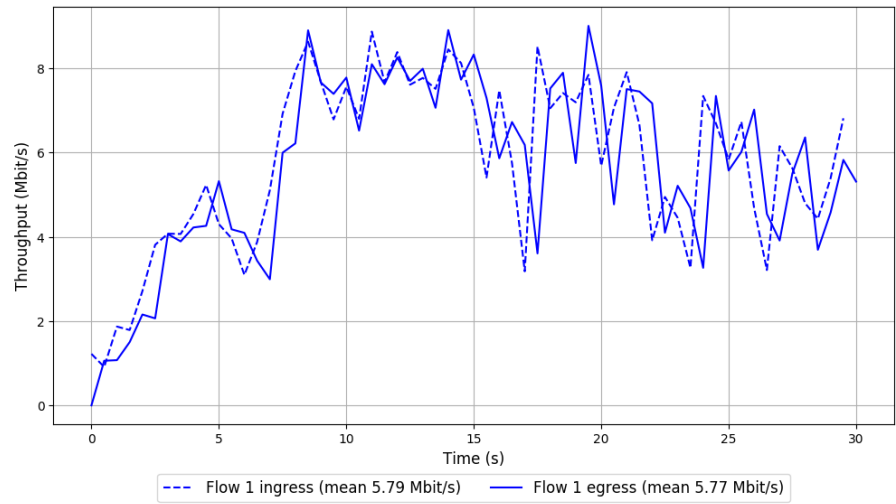
-- Flow 1:

Average throughput: 5.77 Mbit/s

95th percentile per-packet one-way delay: 52.150 ms

Loss rate: 0.59%

Run 1: Report of Sprout — Data Link

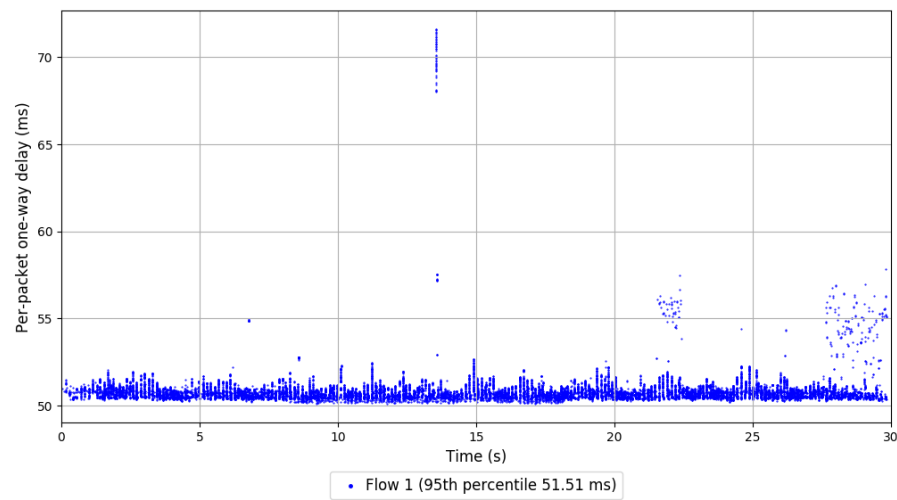
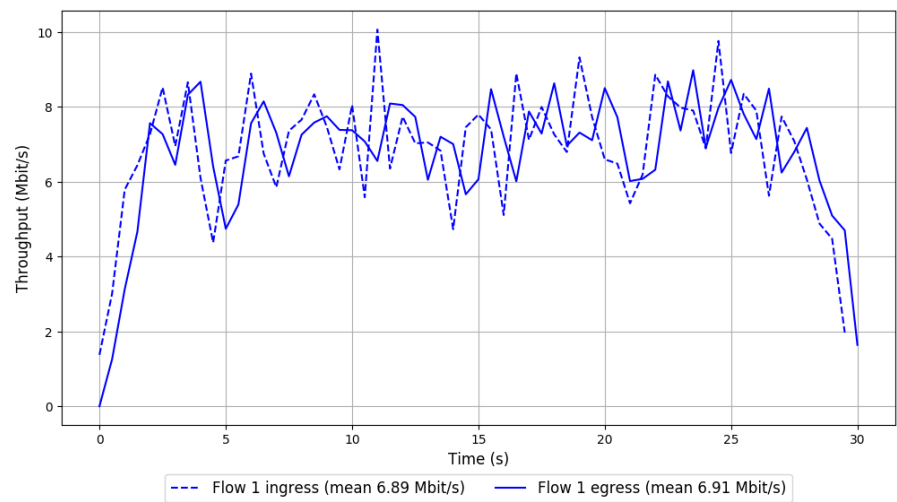


Run 2: Statistics of Sprout

Start at: 2018-07-06 01:59:46
End at: 2018-07-06 02:00:16
Local clock offset: 0.397 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2018-07-06 06:29:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.91 Mbit/s
95th percentile per-packet one-way delay: 51.505 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 6.91 Mbit/s
95th percentile per-packet one-way delay: 51.505 ms
Loss rate: 0.12%

Run 2: Report of Sprout — Data Link

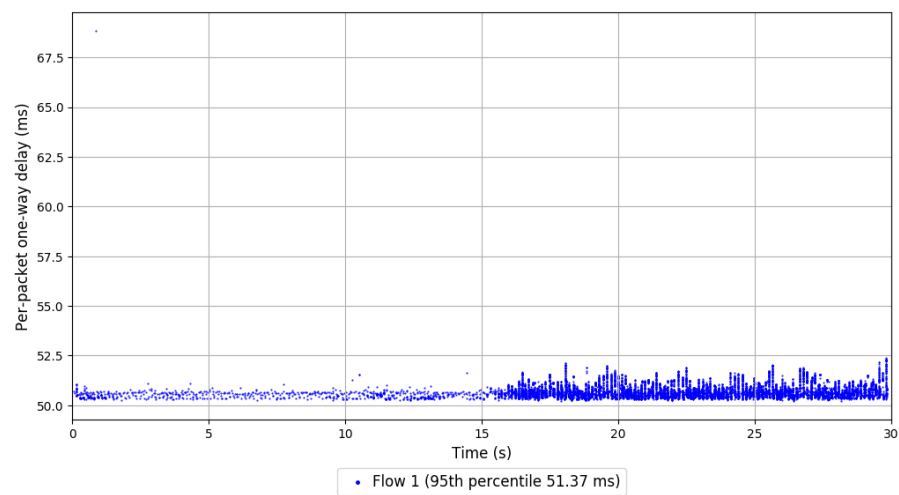
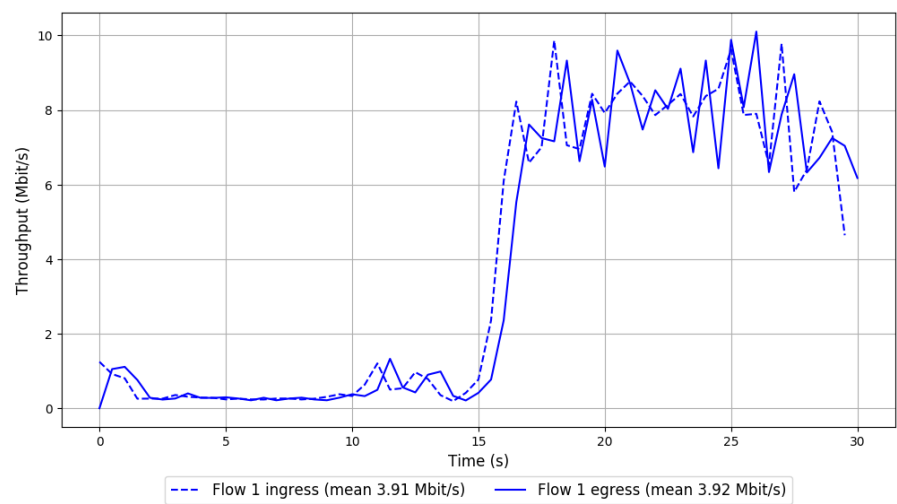


Run 3: Statistics of Sprout

Start at: 2018-07-06 02:21:14
End at: 2018-07-06 02:21:44
Local clock offset: 0.425 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2018-07-06 06:29:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.92 Mbit/s
95th percentile per-packet one-way delay: 51.368 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 3.92 Mbit/s
95th percentile per-packet one-way delay: 51.368 ms
Loss rate: 0.01%

Run 3: Report of Sprout — Data Link

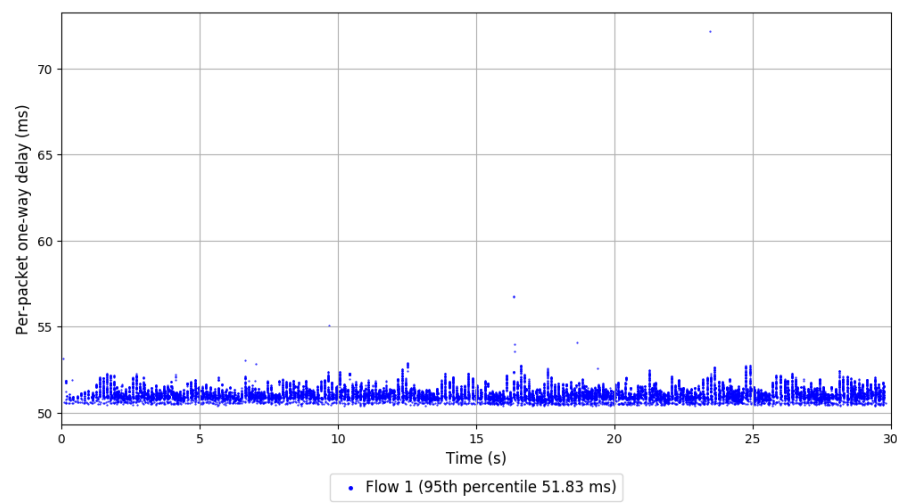
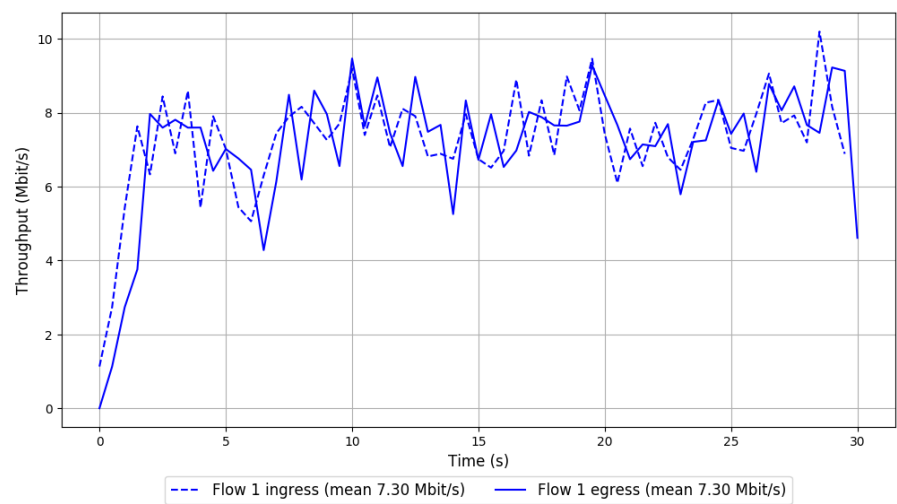


Run 4: Statistics of Sprout

Start at: 2018-07-06 02:42:36
End at: 2018-07-06 02:43:06
Local clock offset: 0.434 ms
Remote clock offset: -0.226 ms

Below is generated by plot.py at 2018-07-06 06:29:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.30 Mbit/s
95th percentile per-packet one-way delay: 51.832 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 7.30 Mbit/s
95th percentile per-packet one-way delay: 51.832 ms
Loss rate: 0.52%

Run 4: Report of Sprout — Data Link

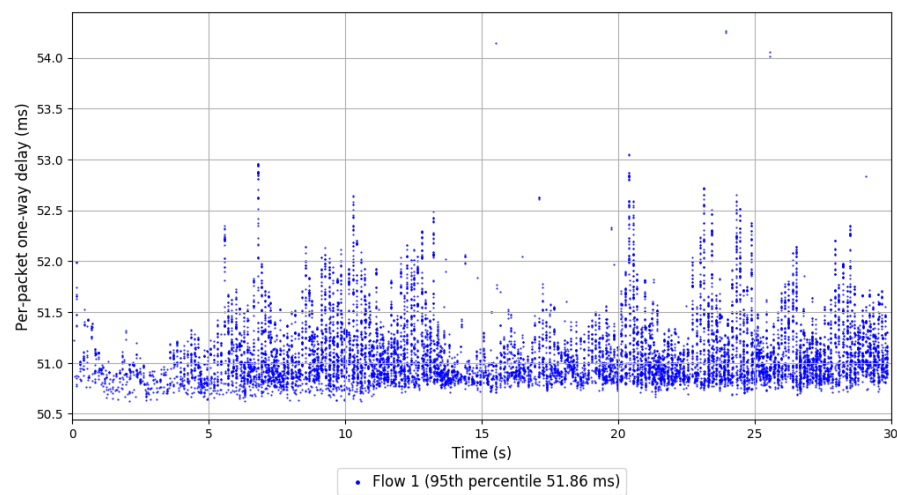
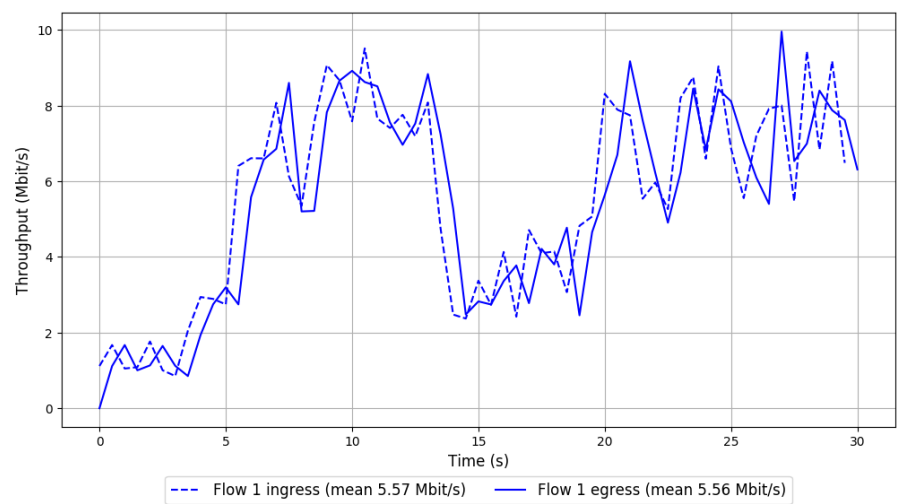


Run 5: Statistics of Sprout

Start at: 2018-07-06 03:04:13
End at: 2018-07-06 03:04:43
Local clock offset: 0.023 ms
Remote clock offset: -0.049 ms

Below is generated by plot.py at 2018-07-06 06:29:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.56 Mbit/s
95th percentile per-packet one-way delay: 51.861 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 5.56 Mbit/s
95th percentile per-packet one-way delay: 51.861 ms
Loss rate: 0.52%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-07-06 03:25:48

End at: 2018-07-06 03:26:18

Local clock offset: -0.283 ms

Remote clock offset: 0.077 ms

Below is generated by plot.py at 2018-07-06 06:29:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.81 Mbit/s

95th percentile per-packet one-way delay: 52.048 ms

Loss rate: 0.00%

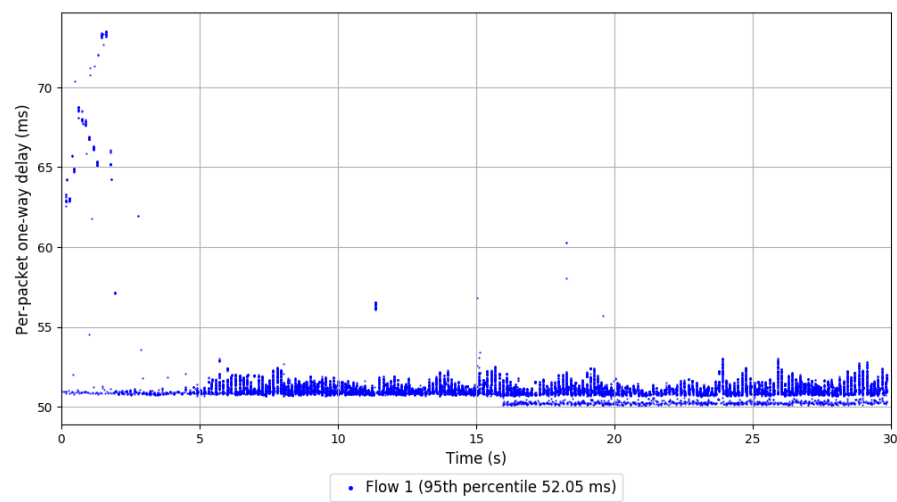
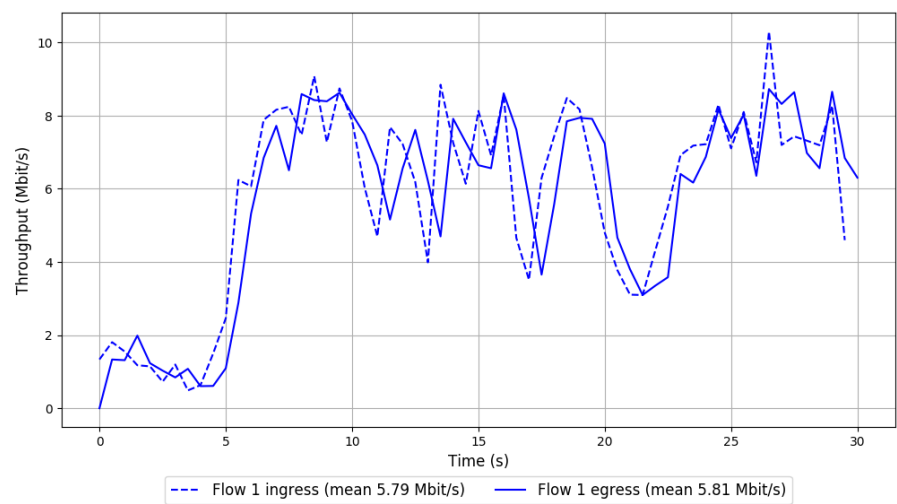
-- Flow 1:

Average throughput: 5.81 Mbit/s

95th percentile per-packet one-way delay: 52.048 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

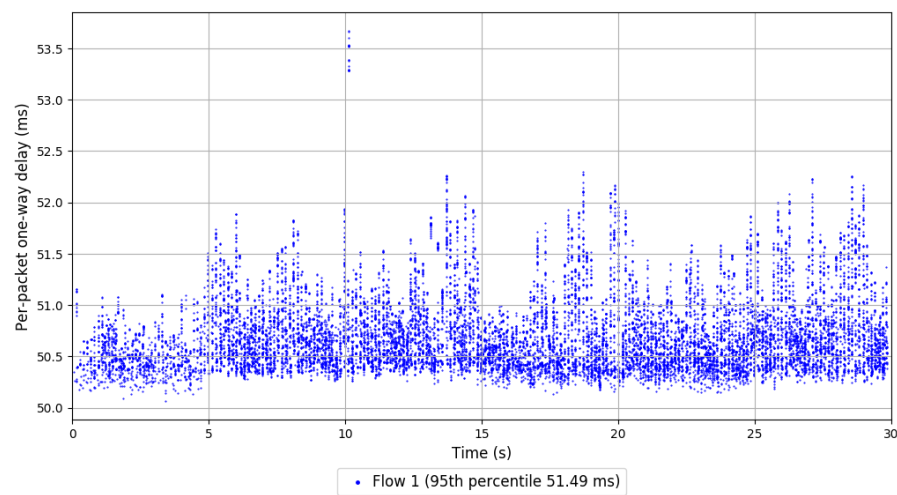
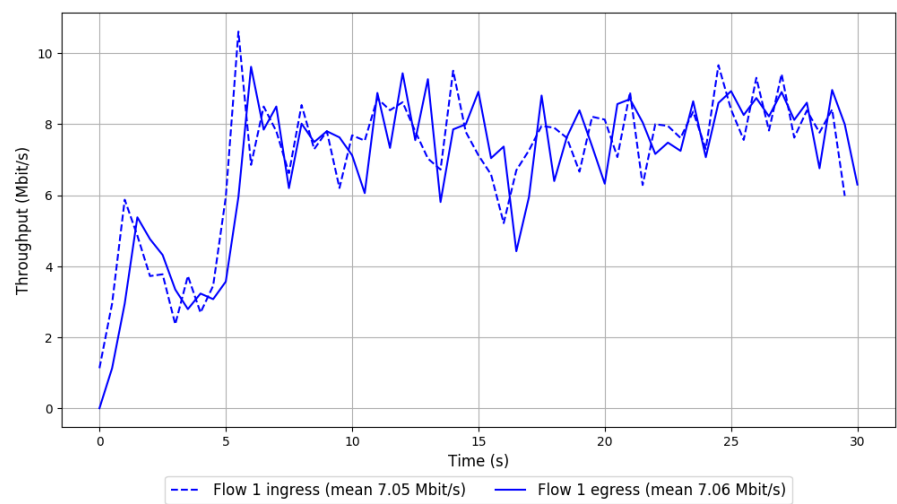


Run 7: Statistics of Sprout

Start at: 2018-07-06 03:47:29
End at: 2018-07-06 03:47:59
Local clock offset: -0.443 ms
Remote clock offset: 0.094 ms

Below is generated by plot.py at 2018-07-06 06:29:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.06 Mbit/s
95th percentile per-packet one-way delay: 51.489 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 7.06 Mbit/s
95th percentile per-packet one-way delay: 51.489 ms
Loss rate: 0.20%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-07-06 04:09:05

End at: 2018-07-06 04:09:35

Local clock offset: -0.97 ms

Remote clock offset: 0.124 ms

Below is generated by plot.py at 2018-07-06 06:29:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.47 Mbit/s

95th percentile per-packet one-way delay: 51.155 ms

Loss rate: 0.06%

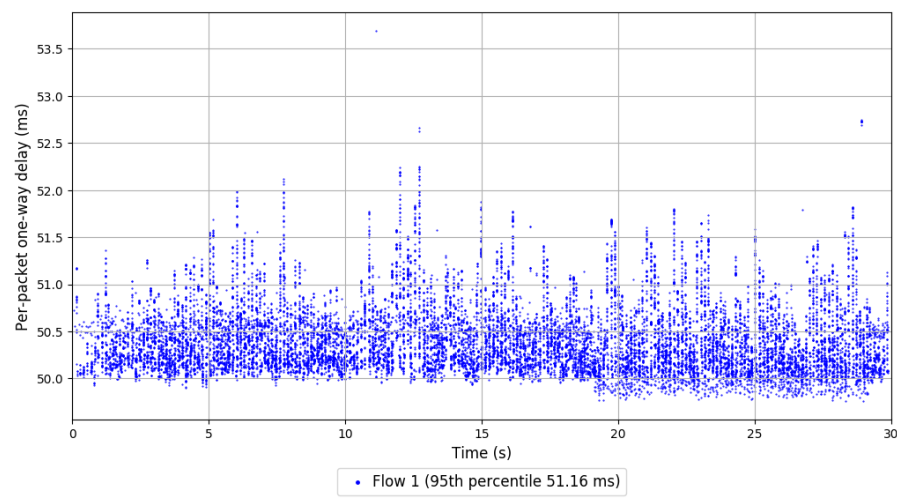
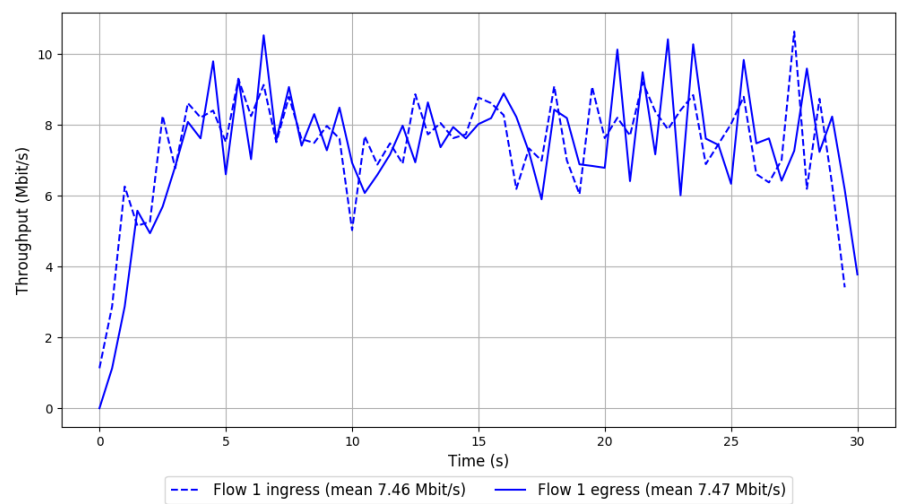
-- Flow 1:

Average throughput: 7.47 Mbit/s

95th percentile per-packet one-way delay: 51.155 ms

Loss rate: 0.06%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-07-06 04:30:35

End at: 2018-07-06 04:31:05

Local clock offset: -0.76 ms

Remote clock offset: 0.334 ms

Below is generated by plot.py at 2018-07-06 06:29:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.04 Mbit/s

95th percentile per-packet one-way delay: 50.936 ms

Loss rate: 0.31%

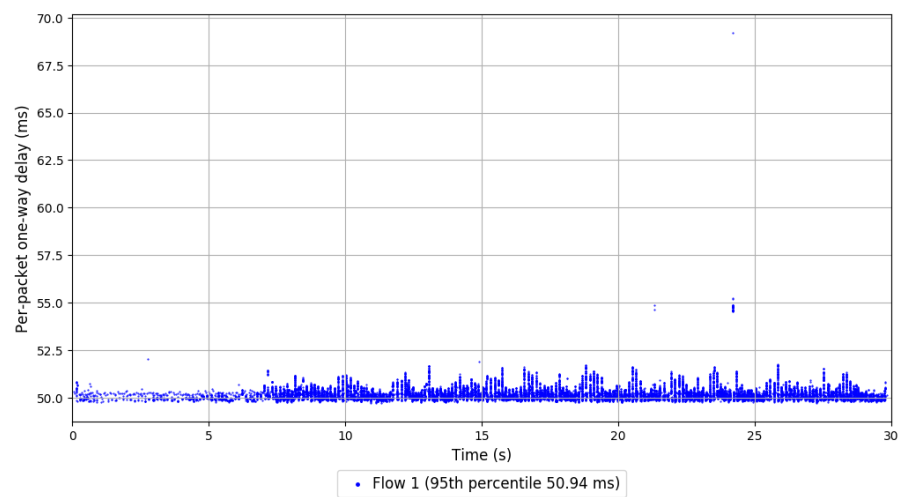
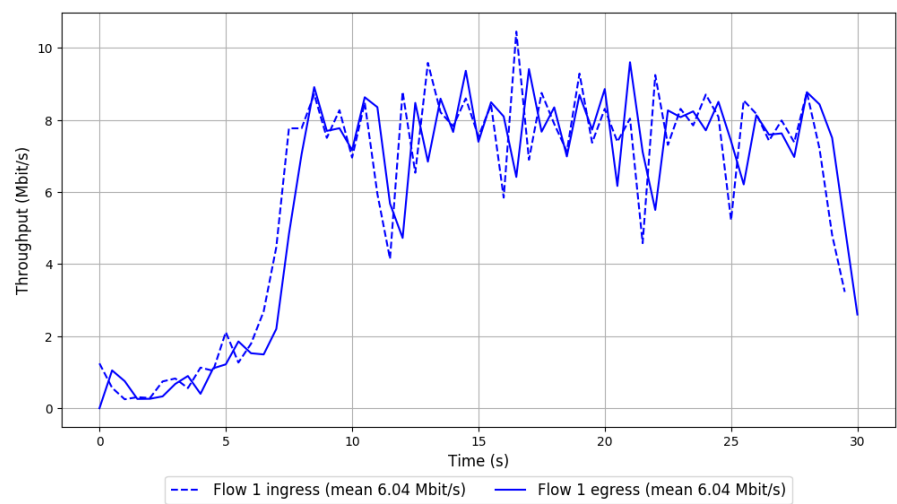
-- Flow 1:

Average throughput: 6.04 Mbit/s

95th percentile per-packet one-way delay: 50.936 ms

Loss rate: 0.31%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-07-06 04:52:10

End at: 2018-07-06 04:52:40

Local clock offset: -0.119 ms

Remote clock offset: 0.039 ms

Below is generated by plot.py at 2018-07-06 06:29:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.10 Mbit/s

95th percentile per-packet one-way delay: 50.865 ms

Loss rate: 0.23%

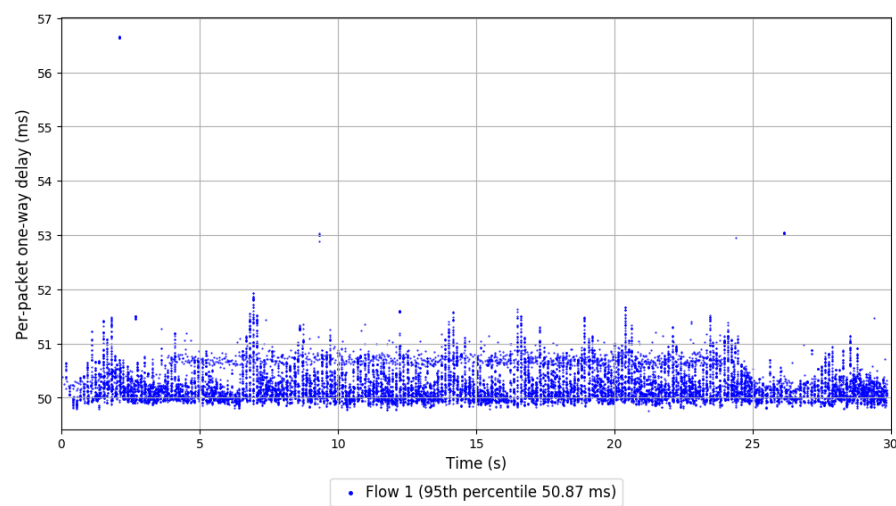
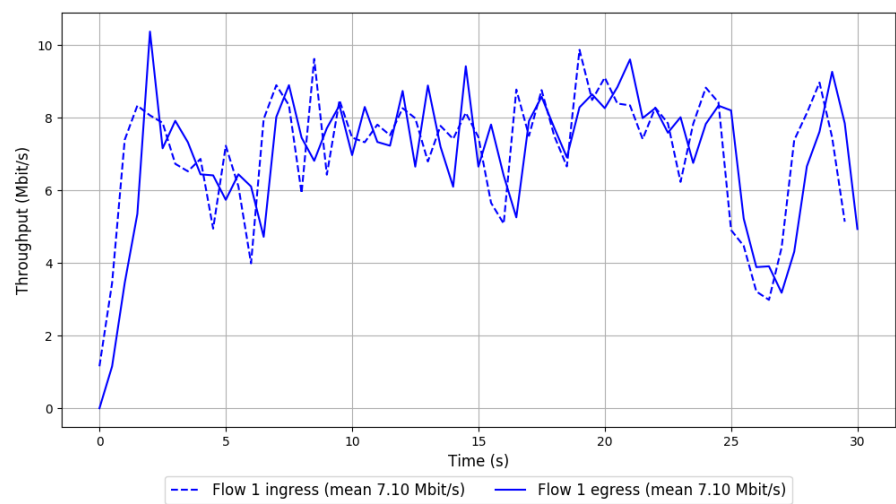
-- Flow 1:

Average throughput: 7.10 Mbit/s

95th percentile per-packet one-way delay: 50.865 ms

Loss rate: 0.23%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-07-06 01:46:02

End at: 2018-07-06 01:46:32

Local clock offset: 0.325 ms

Remote clock offset: -0.055 ms

Below is generated by plot.py at 2018-07-06 06:33:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.60 Mbit/s

95th percentile per-packet one-way delay: 51.344 ms

Loss rate: 0.34%

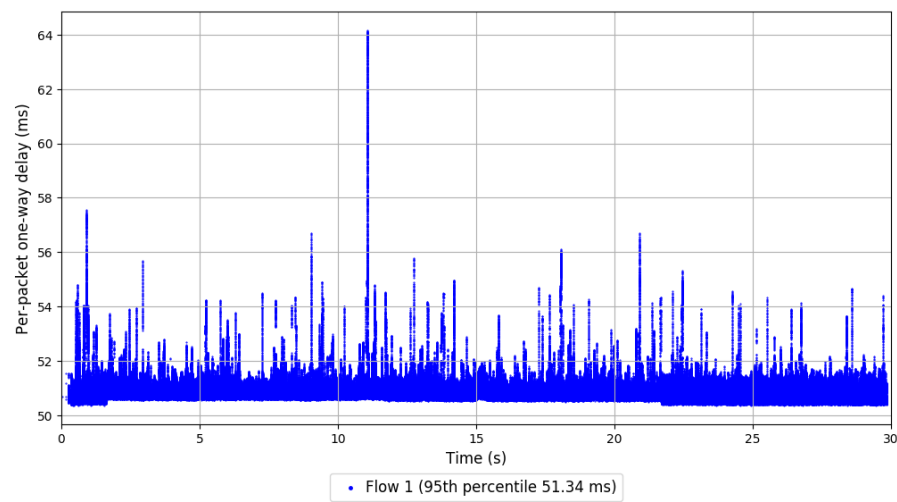
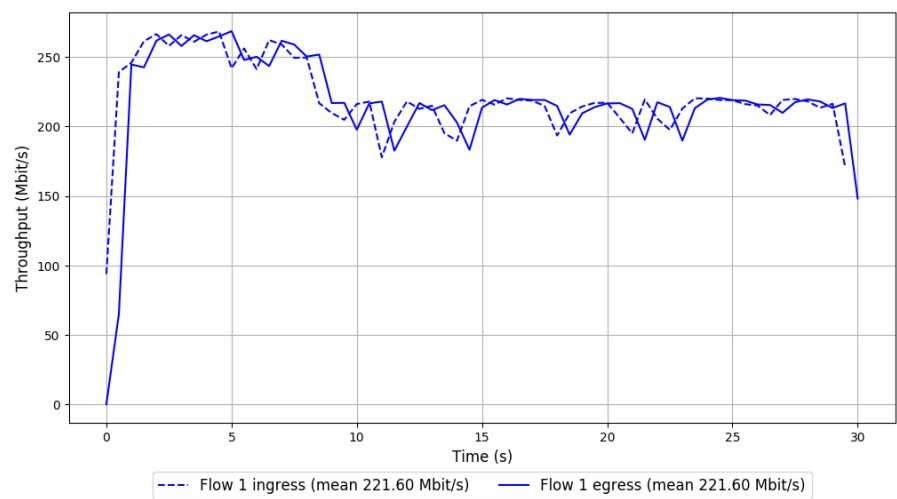
-- Flow 1:

Average throughput: 221.60 Mbit/s

95th percentile per-packet one-way delay: 51.344 ms

Loss rate: 0.34%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-06 02:07:26

End at: 2018-07-06 02:07:56

Local clock offset: 0.391 ms

Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-07-06 06:34:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 245.77 Mbit/s

95th percentile per-packet one-way delay: 51.058 ms

Loss rate: 0.35%

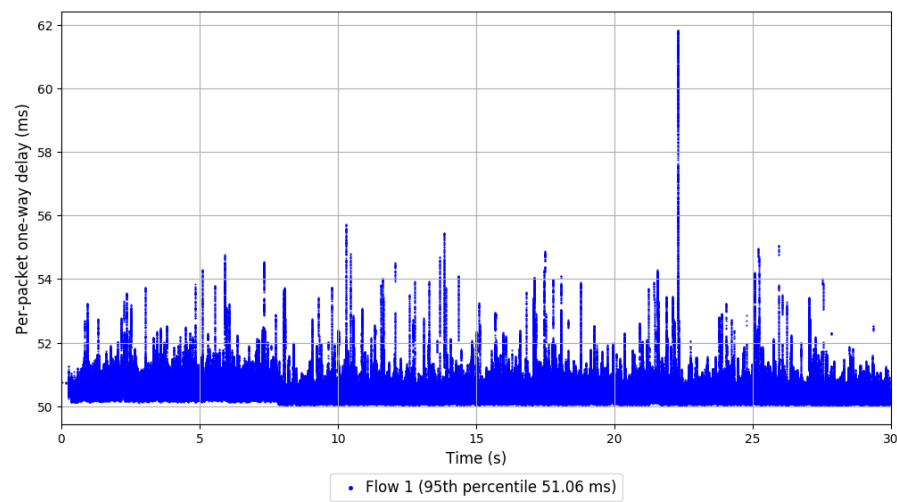
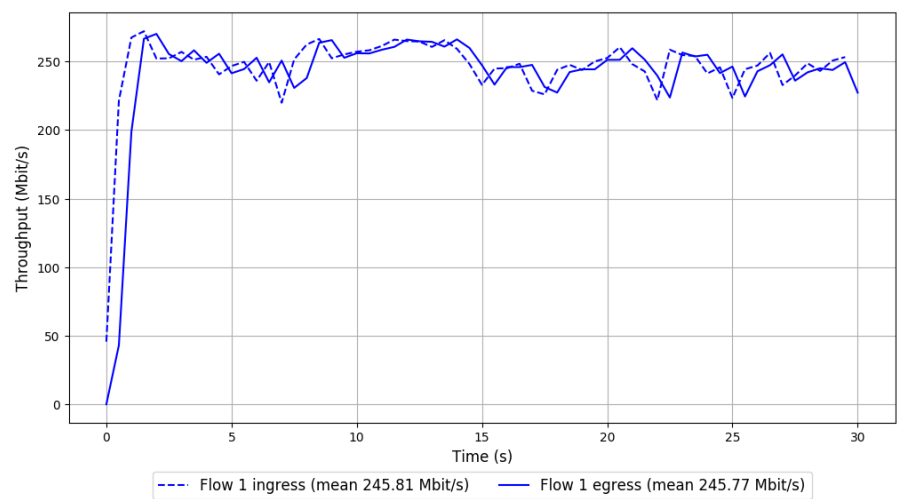
-- Flow 1:

Average throughput: 245.77 Mbit/s

95th percentile per-packet one-way delay: 51.058 ms

Loss rate: 0.35%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-06 02:28:51

End at: 2018-07-06 02:29:21

Local clock offset: 0.022 ms

Remote clock offset: -0.188 ms

Below is generated by plot.py at 2018-07-06 06:34:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 140.10 Mbit/s

95th percentile per-packet one-way delay: 50.860 ms

Loss rate: 0.03%

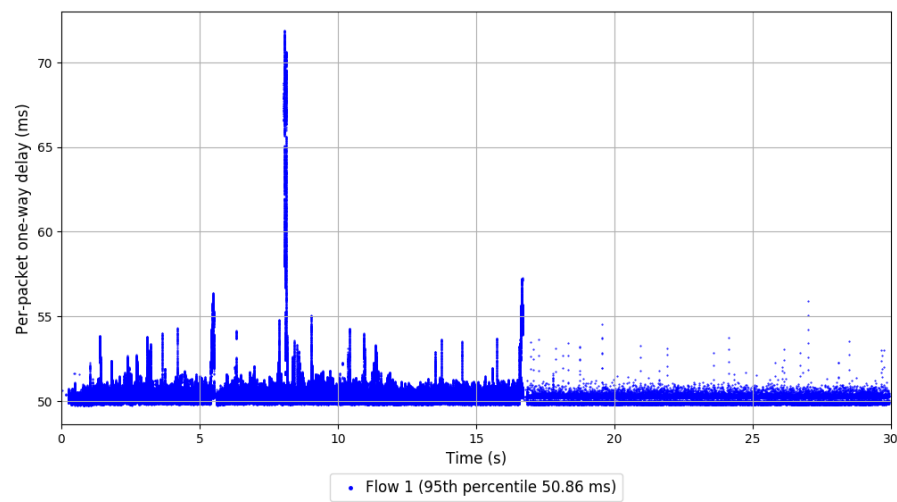
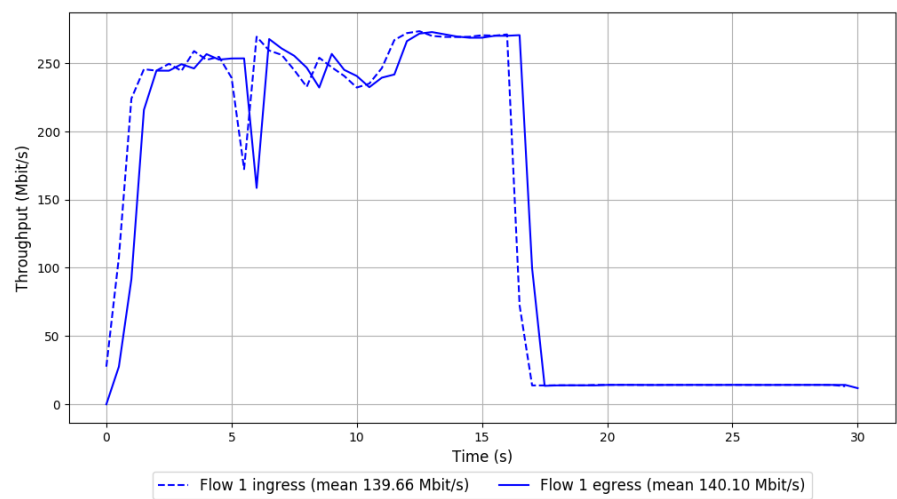
-- Flow 1:

Average throughput: 140.10 Mbit/s

95th percentile per-packet one-way delay: 50.860 ms

Loss rate: 0.03%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-06 02:50:12

End at: 2018-07-06 02:50:42

Local clock offset: 0.453 ms

Remote clock offset: -0.242 ms

Below is generated by plot.py at 2018-07-06 06:34:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.42 Mbit/s

95th percentile per-packet one-way delay: 51.442 ms

Loss rate: 0.33%

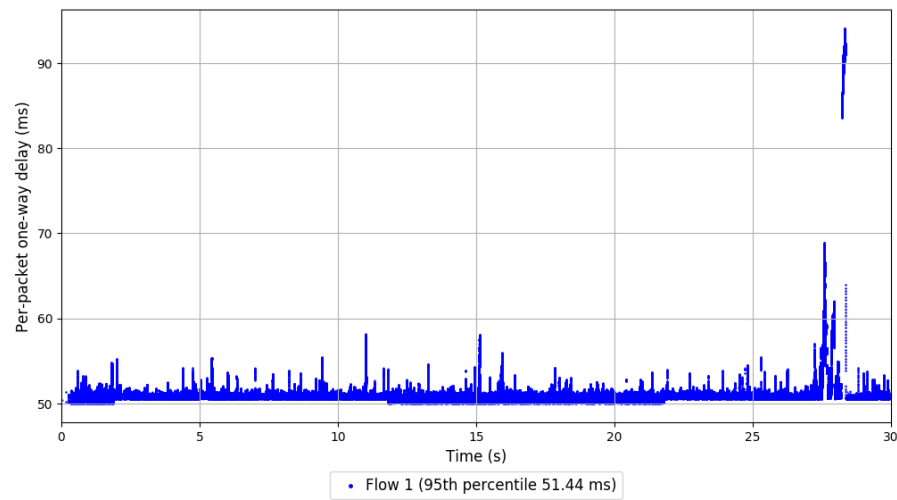
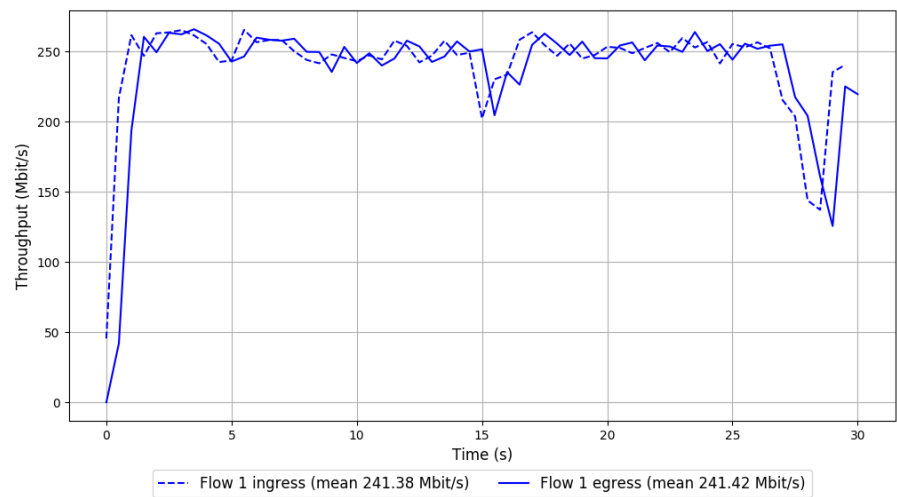
-- Flow 1:

Average throughput: 241.42 Mbit/s

95th percentile per-packet one-way delay: 51.442 ms

Loss rate: 0.33%

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

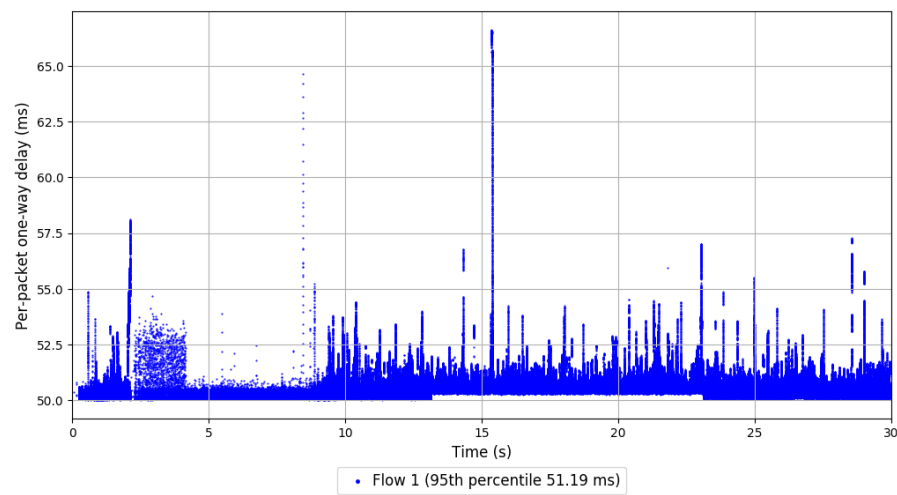
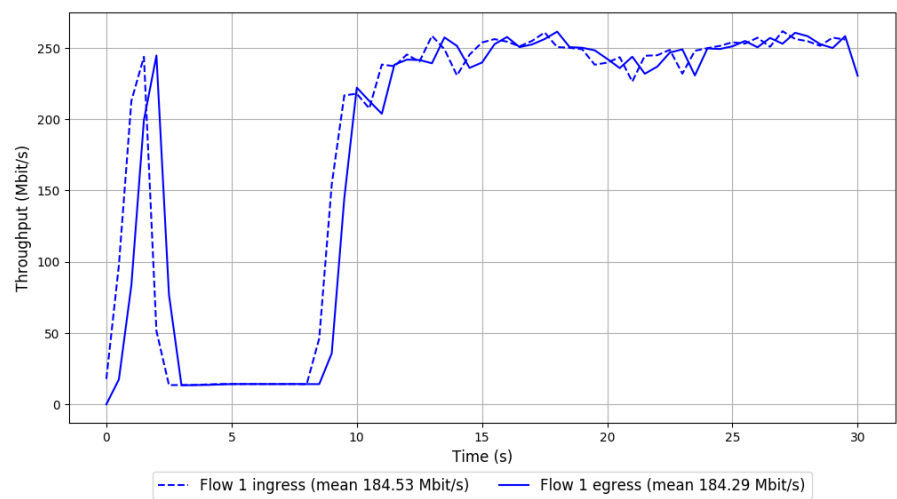


Run 5: Statistics of TaoVA-100x

Start at: 2018-07-06 03:11:51
End at: 2018-07-06 03:12:21
Local clock offset: -0.509 ms
Remote clock offset: -0.028 ms

Below is generated by plot.py at 2018-07-06 06:34:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 184.29 Mbit/s
95th percentile per-packet one-way delay: 51.185 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 184.29 Mbit/s
95th percentile per-packet one-way delay: 51.185 ms
Loss rate: 0.47%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-06 03:33:26

End at: 2018-07-06 03:33:56

Local clock offset: -0.716 ms

Remote clock offset: 0.065 ms

Below is generated by plot.py at 2018-07-06 06:36:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.54 Mbit/s

95th percentile per-packet one-way delay: 50.799 ms

Loss rate: 0.37%

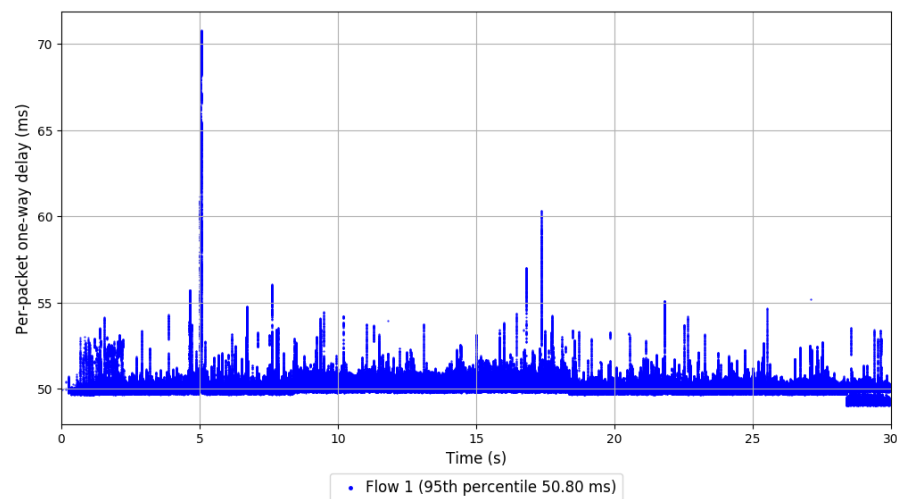
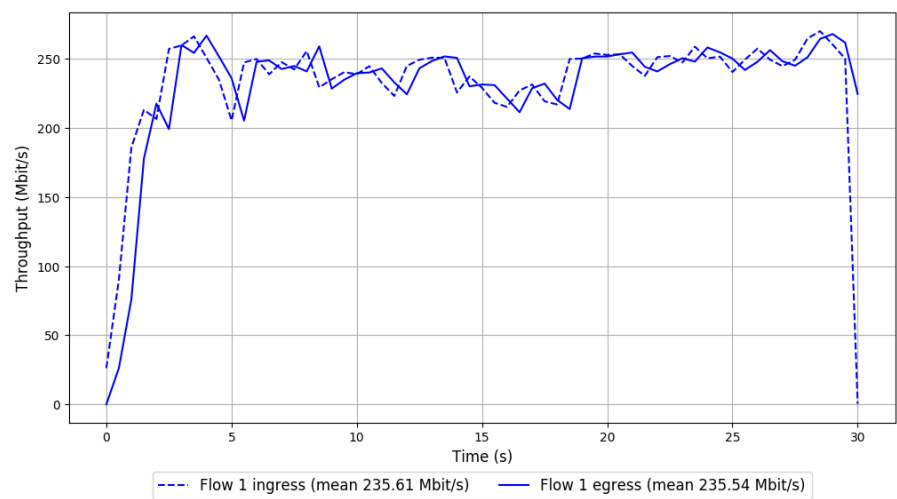
-- Flow 1:

Average throughput: 235.54 Mbit/s

95th percentile per-packet one-way delay: 50.799 ms

Loss rate: 0.37%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-06 03:55:14

End at: 2018-07-06 03:55:44

Local clock offset: -0.154 ms

Remote clock offset: 0.165 ms

Below is generated by plot.py at 2018-07-06 06:36:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 236.77 Mbit/s

95th percentile per-packet one-way delay: 51.488 ms

Loss rate: 0.35%

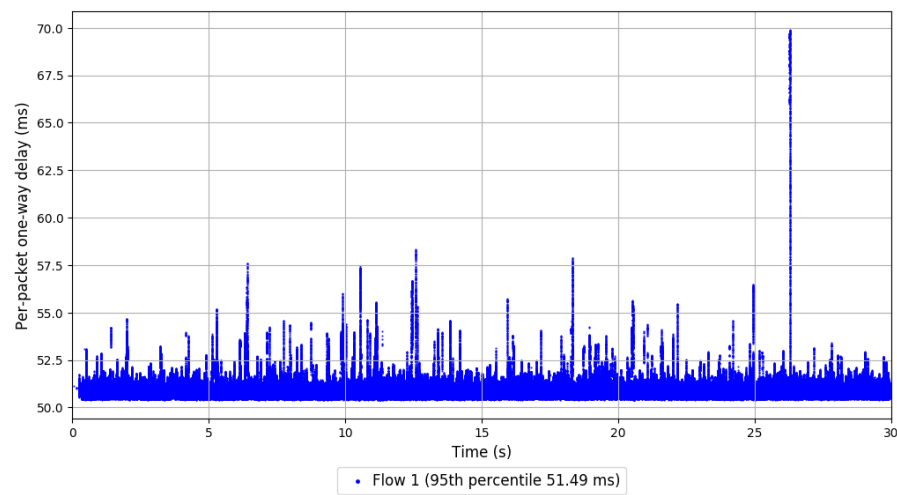
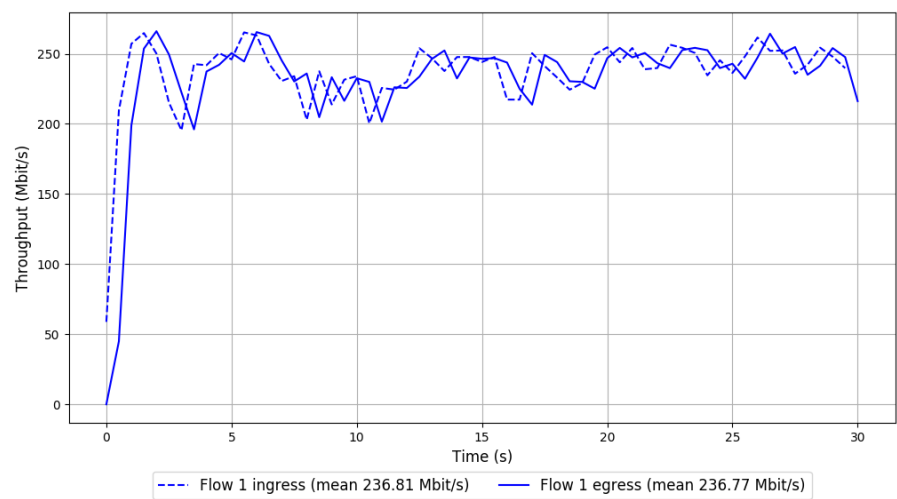
-- Flow 1:

Average throughput: 236.77 Mbit/s

95th percentile per-packet one-way delay: 51.488 ms

Loss rate: 0.35%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-06 04:16:36

End at: 2018-07-06 04:17:06

Local clock offset: -0.634 ms

Remote clock offset: 0.207 ms

Below is generated by plot.py at 2018-07-06 06:37:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 245.19 Mbit/s

95th percentile per-packet one-way delay: 50.976 ms

Loss rate: 0.30%

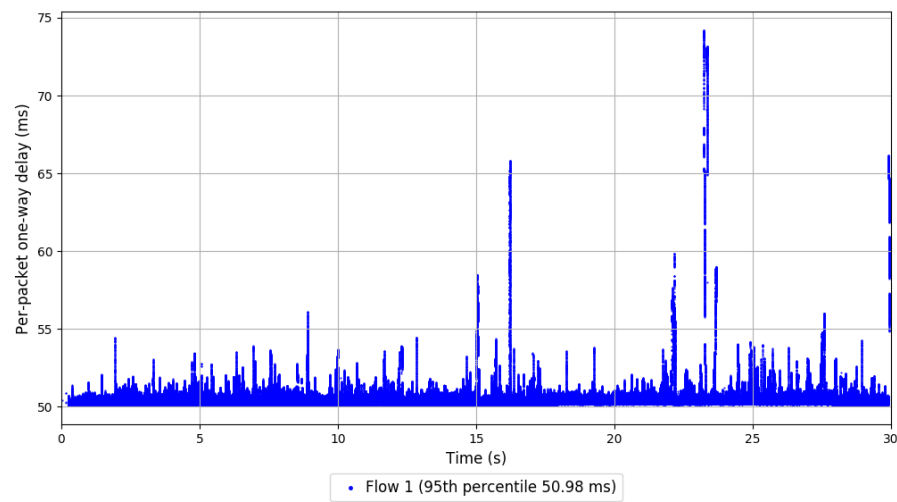
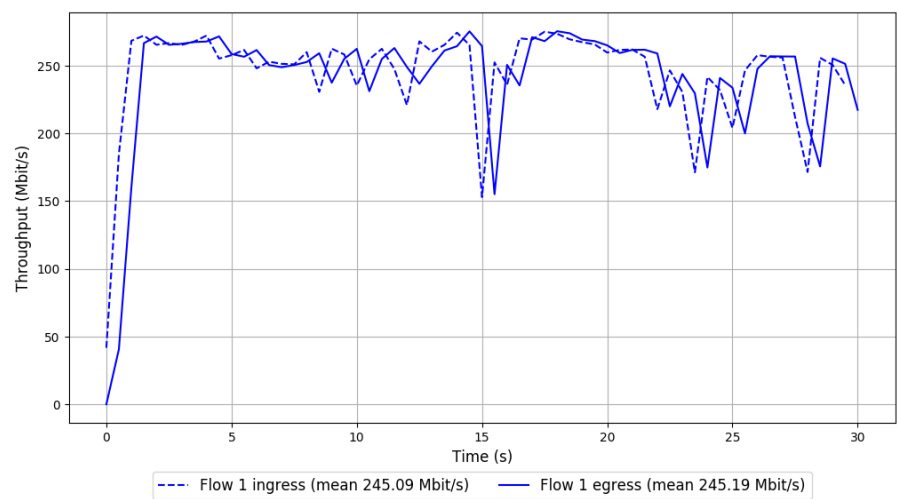
-- Flow 1:

Average throughput: 245.19 Mbit/s

95th percentile per-packet one-way delay: 50.976 ms

Loss rate: 0.30%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-06 04:38:14

End at: 2018-07-06 04:38:44

Local clock offset: -0.641 ms

Remote clock offset: 0.239 ms

Below is generated by plot.py at 2018-07-06 06:39:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 242.49 Mbit/s

95th percentile per-packet one-way delay: 50.808 ms

Loss rate: 0.39%

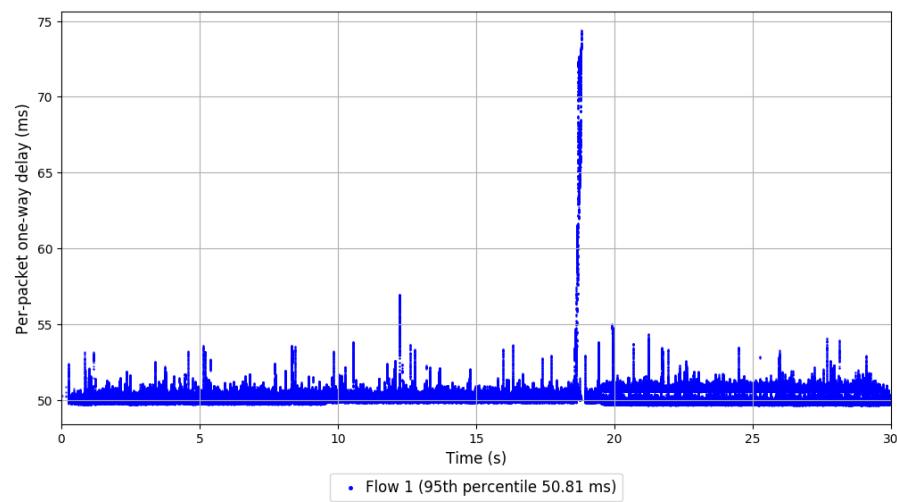
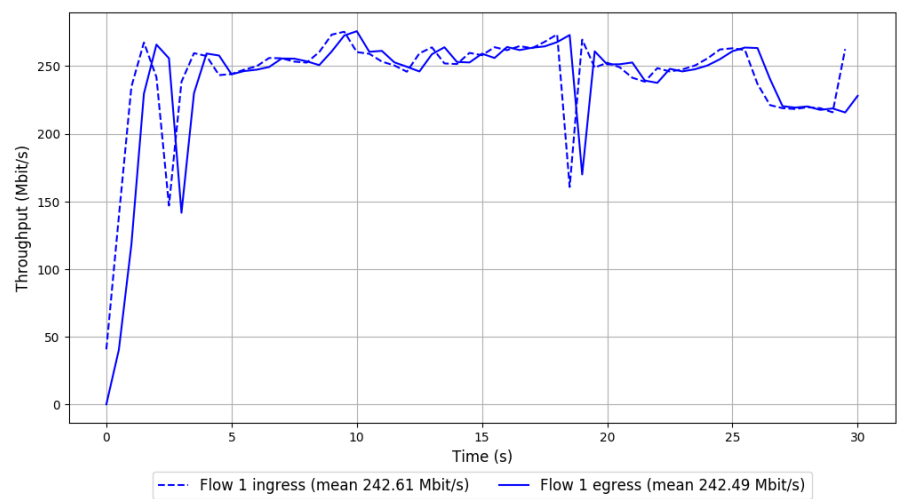
-- Flow 1:

Average throughput: 242.49 Mbit/s

95th percentile per-packet one-way delay: 50.808 ms

Loss rate: 0.39%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-06 04:59:45

End at: 2018-07-06 05:00:15

Local clock offset: -0.379 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-07-06 06:40:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 237.68 Mbit/s

95th percentile per-packet one-way delay: 50.640 ms

Loss rate: 0.31%

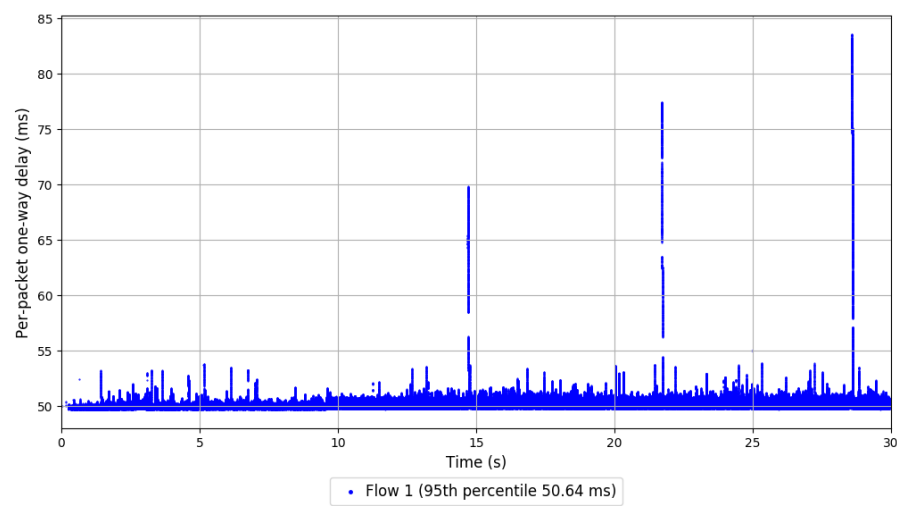
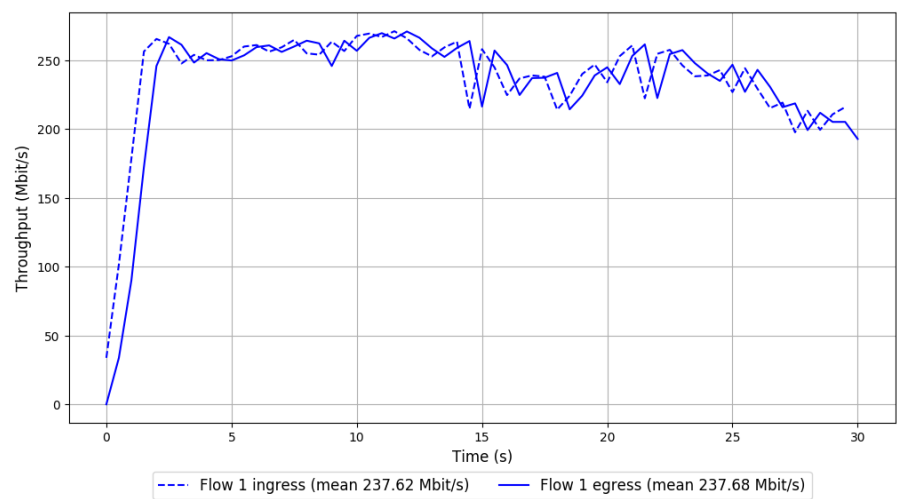
-- Flow 1:

Average throughput: 237.68 Mbit/s

95th percentile per-packet one-way delay: 50.640 ms

Loss rate: 0.31%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-07-06 01:53:48

End at: 2018-07-06 01:54:18

Local clock offset: 0.019 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-07-06 06:40:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.51 Mbit/s

95th percentile per-packet one-way delay: 51.464 ms

Loss rate: 0.35%

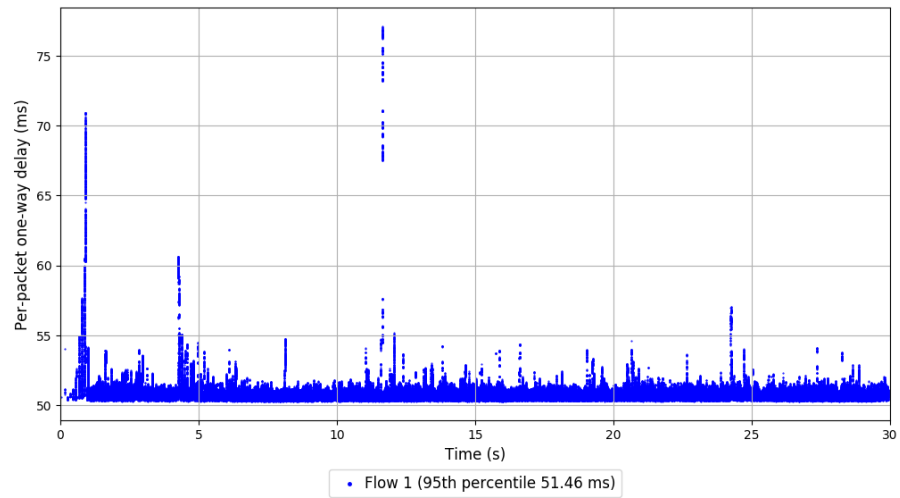
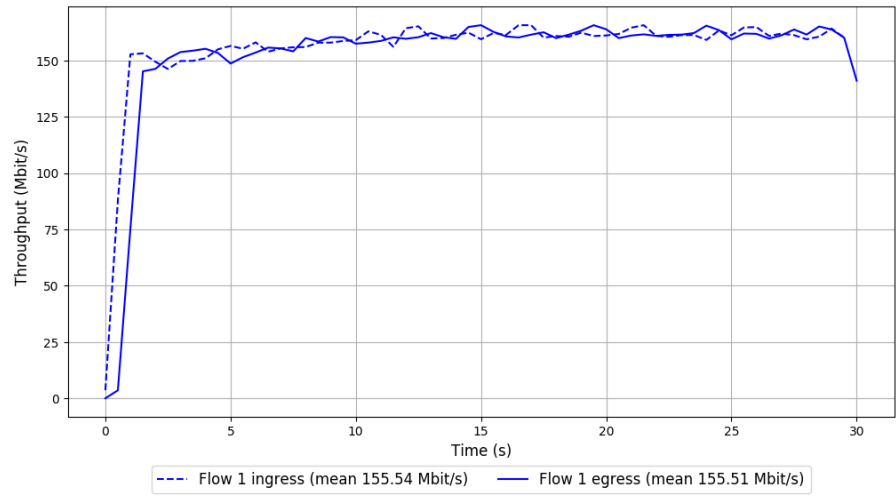
-- Flow 1:

Average throughput: 155.51 Mbit/s

95th percentile per-packet one-way delay: 51.464 ms

Loss rate: 0.35%

Run 1: Report of TCP Vegas — Data Link

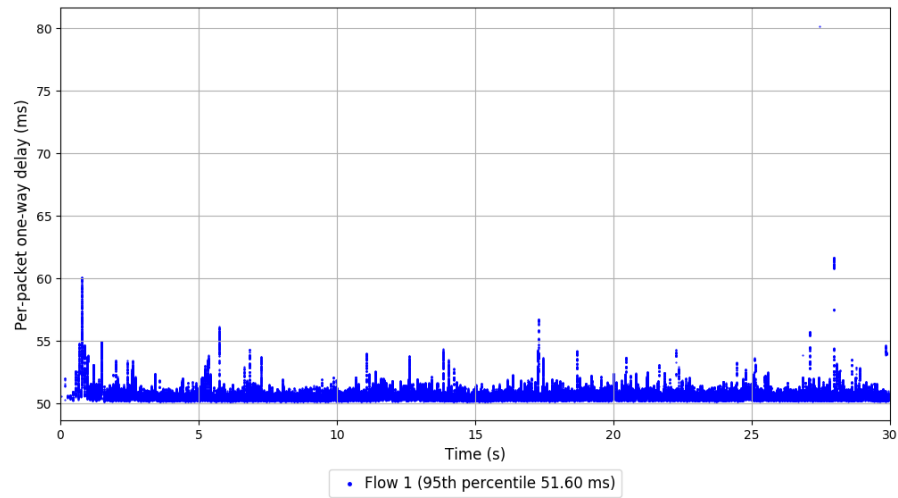
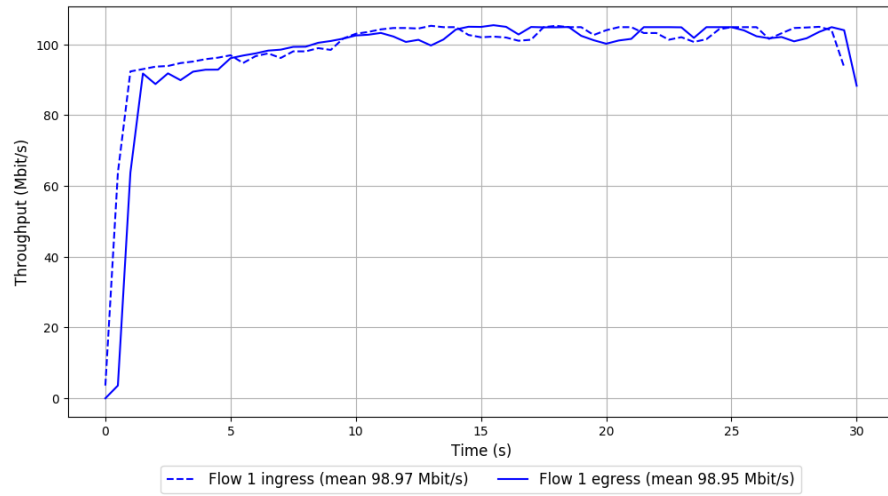


Run 2: Statistics of TCP Vegas

Start at: 2018-07-06 02:15:18
End at: 2018-07-06 02:15:48
Local clock offset: 0.413 ms
Remote clock offset: -0.043 ms

Below is generated by plot.py at 2018-07-06 06:40:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 98.95 Mbit/s
95th percentile per-packet one-way delay: 51.603 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 98.95 Mbit/s
95th percentile per-packet one-way delay: 51.603 ms
Loss rate: 0.35%

Run 2: Report of TCP Vegas — Data Link

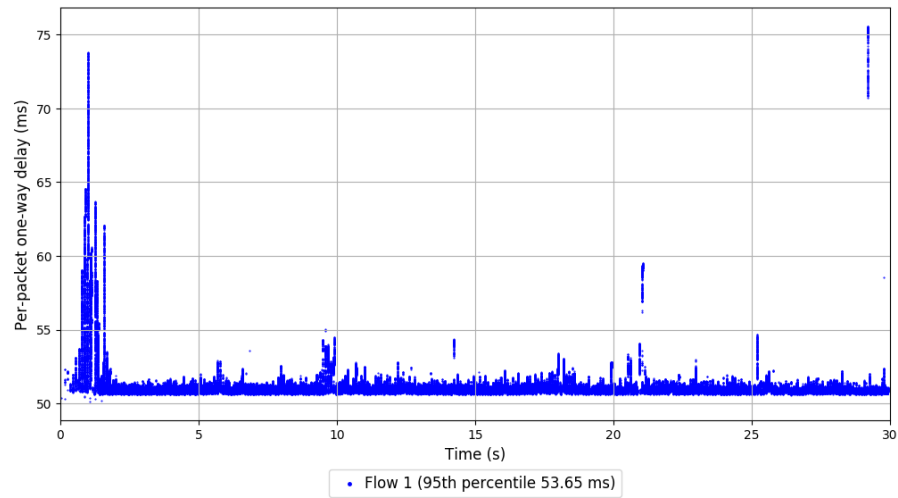
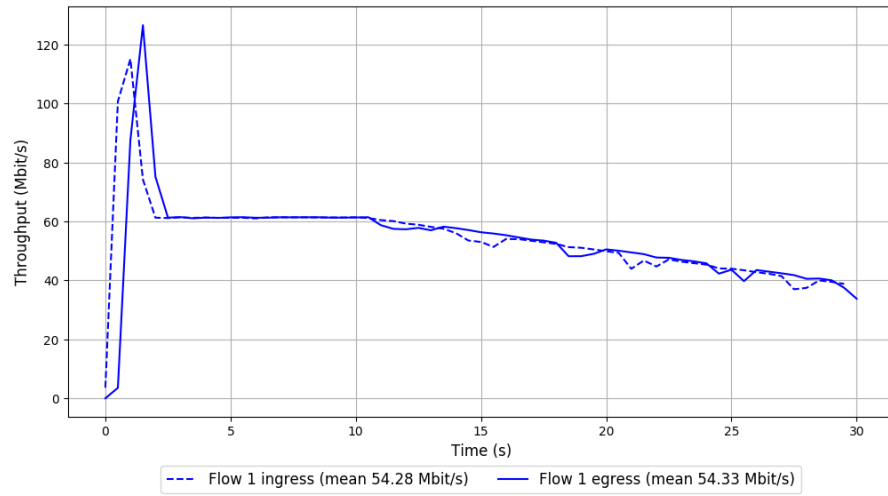


Run 3: Statistics of TCP Vegas

Start at: 2018-07-06 02:36:30
End at: 2018-07-06 02:37:00
Local clock offset: 0.452 ms
Remote clock offset: -0.208 ms

Below is generated by plot.py at 2018-07-06 06:40:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 54.33 Mbit/s
95th percentile per-packet one-way delay: 53.647 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 54.33 Mbit/s
95th percentile per-packet one-way delay: 53.647 ms
Loss rate: 0.24%

Run 3: Report of TCP Vegas — Data Link

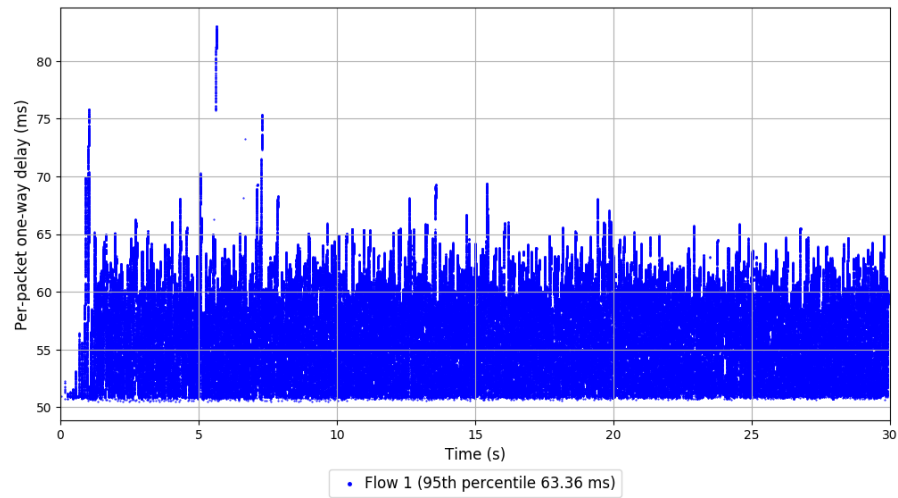
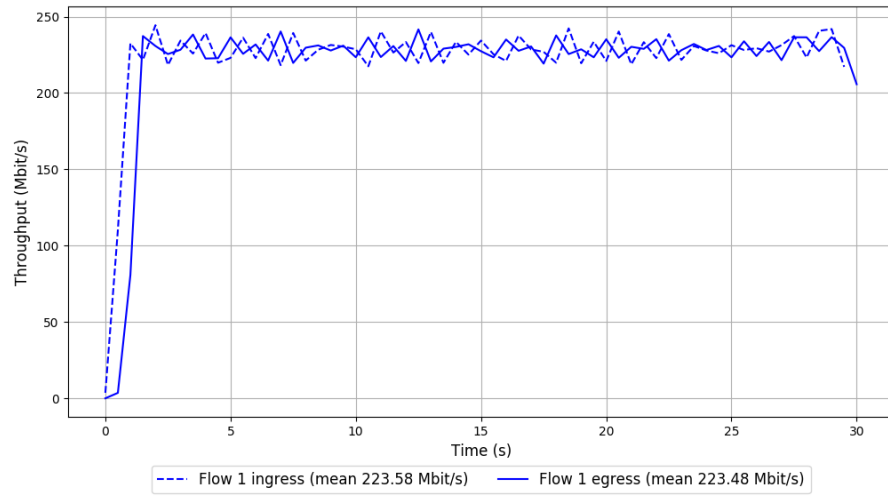


Run 4: Statistics of TCP Vegas

Start at: 2018-07-06 02:57:54
End at: 2018-07-06 02:58:24
Local clock offset: 0.237 ms
Remote clock offset: -0.179 ms

Below is generated by plot.py at 2018-07-06 06:40:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 223.48 Mbit/s
95th percentile per-packet one-way delay: 63.356 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 223.48 Mbit/s
95th percentile per-packet one-way delay: 63.356 ms
Loss rate: 0.36%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-07-06 03:19:38

End at: 2018-07-06 03:20:08

Local clock offset: -0.236 ms

Remote clock offset: 0.007 ms

Below is generated by plot.py at 2018-07-06 06:40:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.93 Mbit/s

95th percentile per-packet one-way delay: 63.196 ms

Loss rate: 0.16%

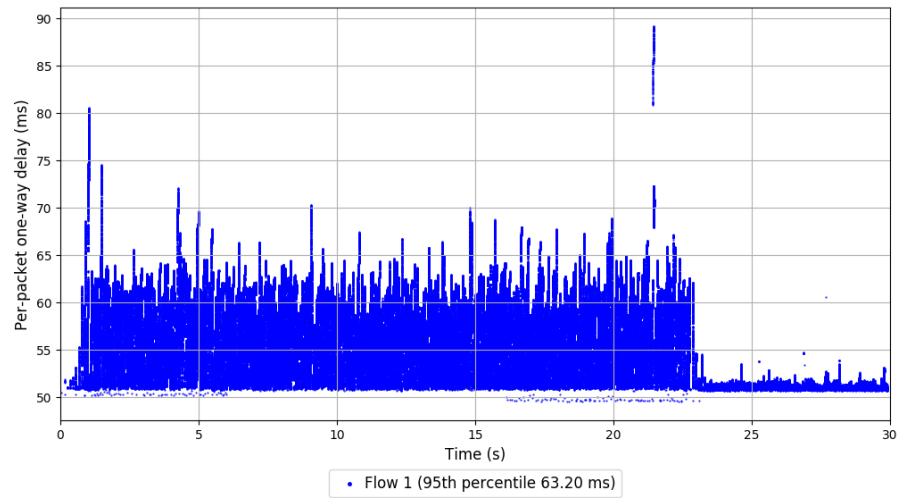
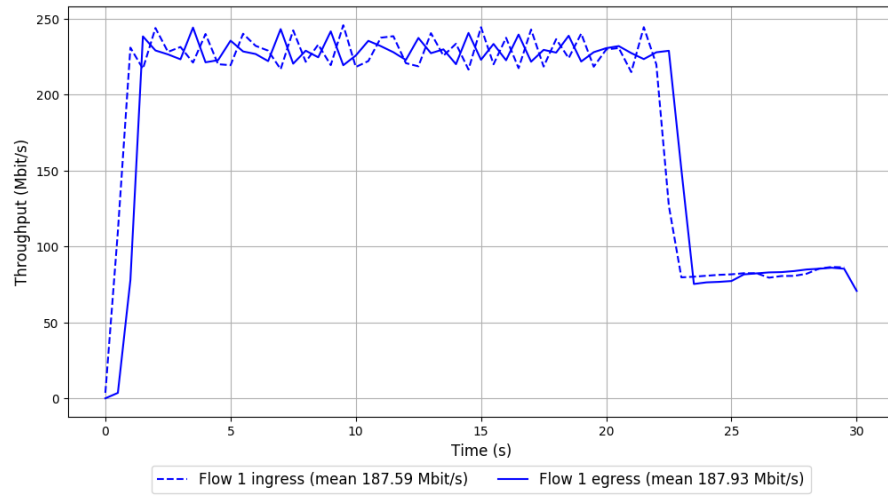
-- Flow 1:

Average throughput: 187.93 Mbit/s

95th percentile per-packet one-way delay: 63.196 ms

Loss rate: 0.16%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-06 03:41:16

End at: 2018-07-06 03:41:46

Local clock offset: -0.431 ms

Remote clock offset: 0.047 ms

Below is generated by plot.py at 2018-07-06 06:40:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.62 Mbit/s

95th percentile per-packet one-way delay: 58.883 ms

Loss rate: 0.31%

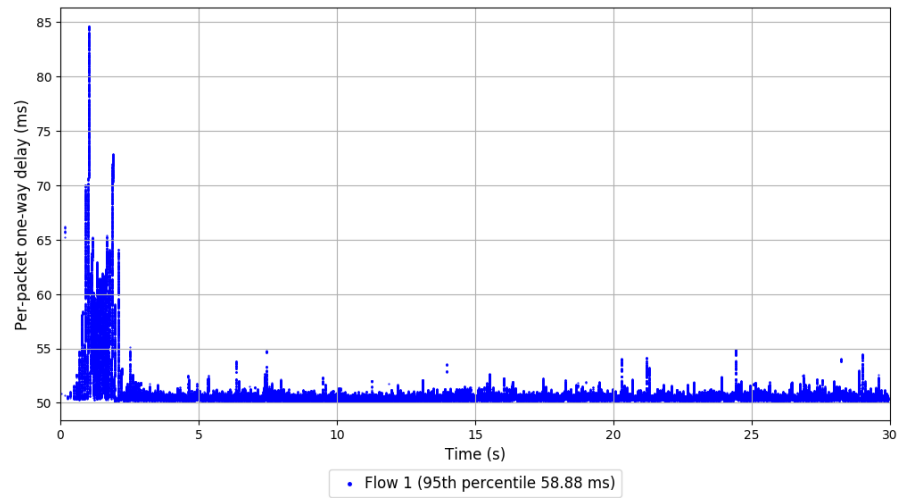
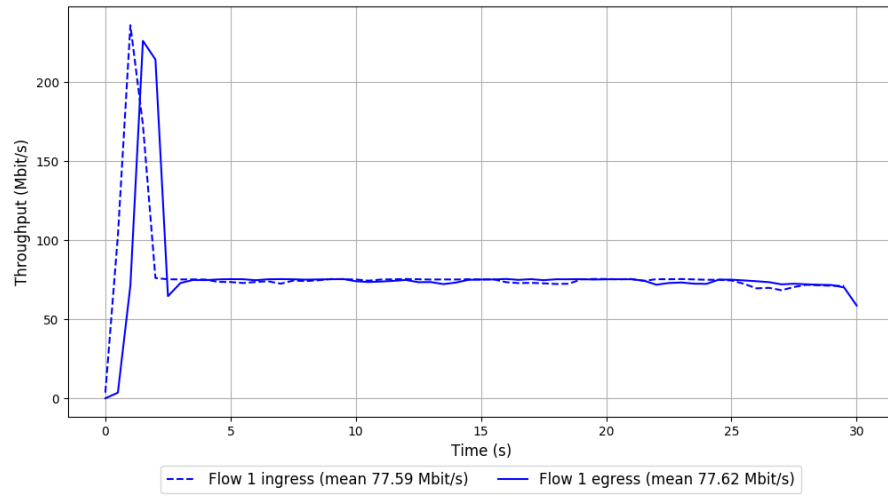
-- Flow 1:

Average throughput: 77.62 Mbit/s

95th percentile per-packet one-way delay: 58.883 ms

Loss rate: 0.31%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-06 04:03:00

End at: 2018-07-06 04:03:30

Local clock offset: -0.549 ms

Remote clock offset: 0.096 ms

Below is generated by plot.py at 2018-07-06 06:40:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.01 Mbit/s

95th percentile per-packet one-way delay: 52.049 ms

Loss rate: 0.32%

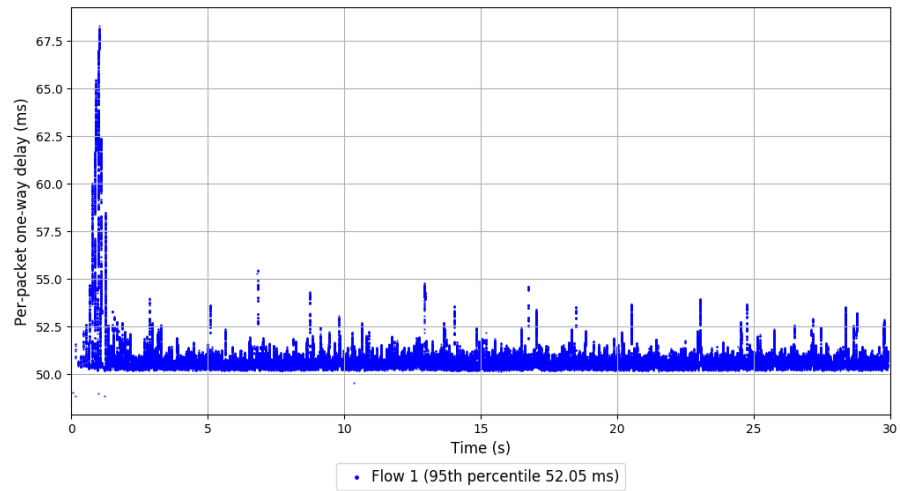
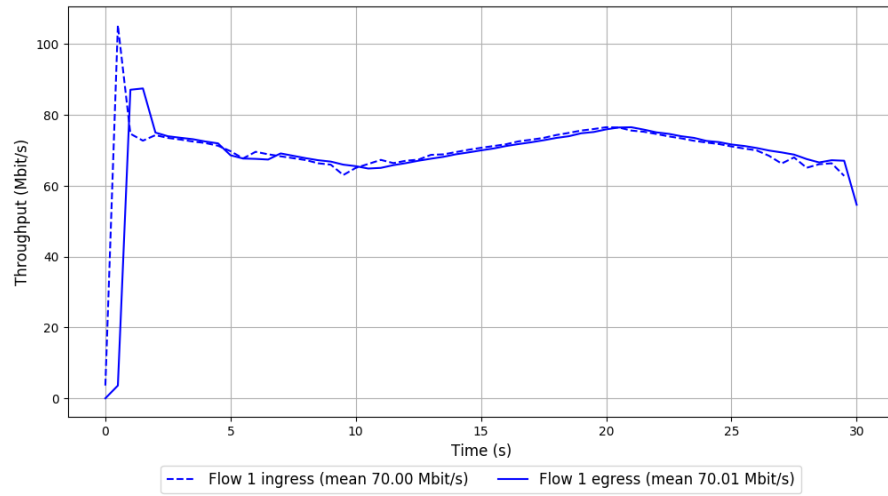
-- Flow 1:

Average throughput: 70.01 Mbit/s

95th percentile per-packet one-way delay: 52.049 ms

Loss rate: 0.32%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-06 04:24:25

End at: 2018-07-06 04:24:55

Local clock offset: -1.057 ms

Remote clock offset: 0.27 ms

Below is generated by plot.py at 2018-07-06 06:40:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.20 Mbit/s

95th percentile per-packet one-way delay: 51.002 ms

Loss rate: 0.19%

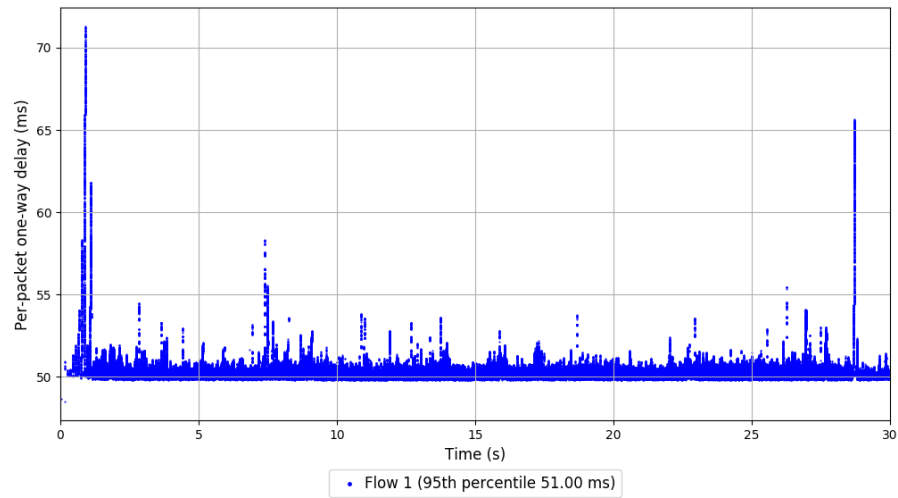
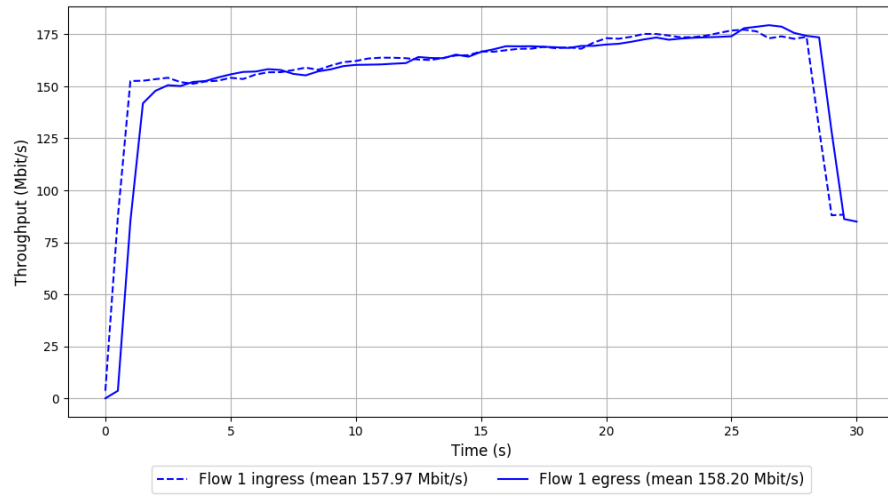
-- Flow 1:

Average throughput: 158.20 Mbit/s

95th percentile per-packet one-way delay: 51.002 ms

Loss rate: 0.19%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-06 04:45:56

End at: 2018-07-06 04:46:26

Local clock offset: -0.28 ms

Remote clock offset: 0.153 ms

Below is generated by plot.py at 2018-07-06 06:40:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.98 Mbit/s

95th percentile per-packet one-way delay: 51.272 ms

Loss rate: 0.36%

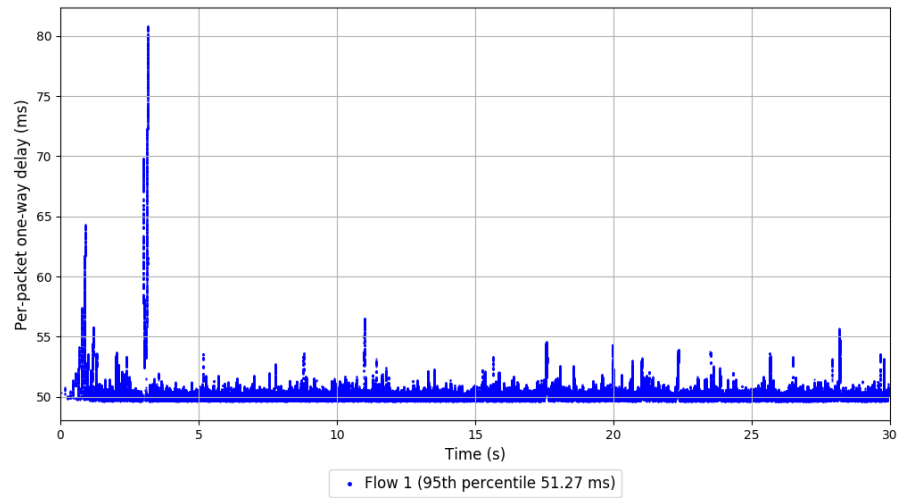
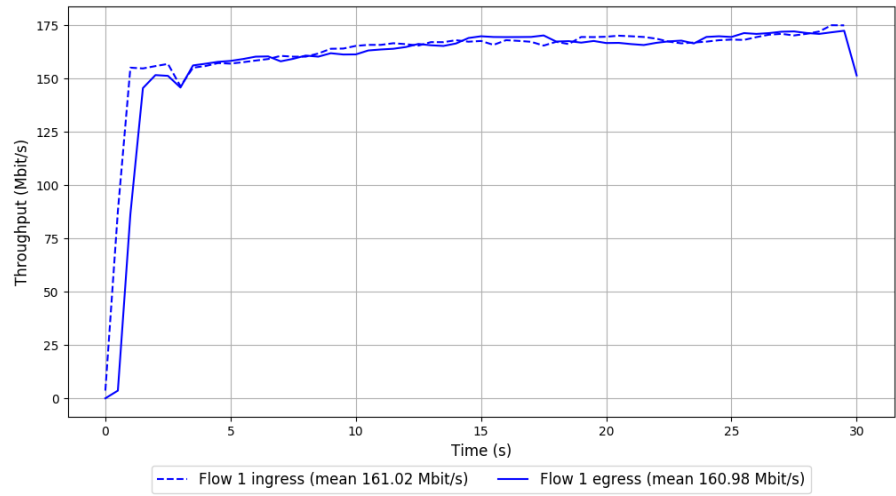
-- Flow 1:

Average throughput: 160.98 Mbit/s

95th percentile per-packet one-way delay: 51.272 ms

Loss rate: 0.36%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-06 05:07:31

End at: 2018-07-06 05:08:01

Local clock offset: 0.425 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2018-07-06 06:40:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.75 Mbit/s

95th percentile per-packet one-way delay: 52.392 ms

Loss rate: 0.32%

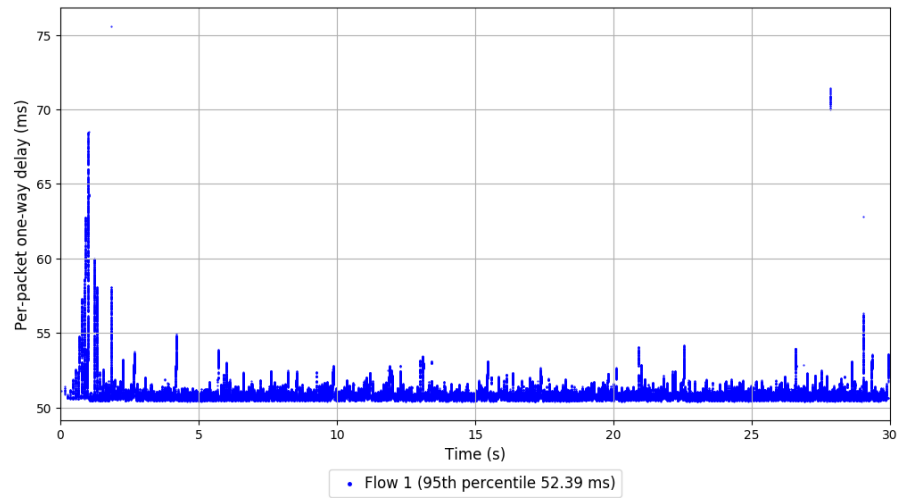
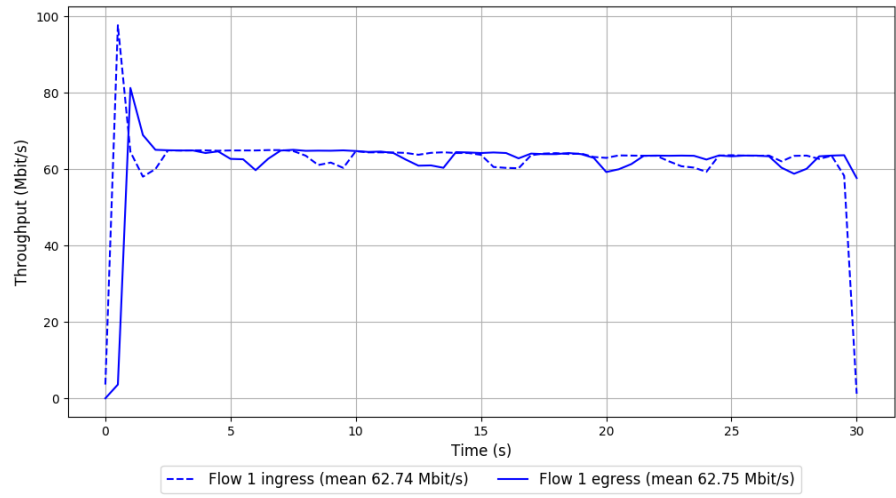
-- Flow 1:

Average throughput: 62.75 Mbit/s

95th percentile per-packet one-way delay: 52.392 ms

Loss rate: 0.32%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-07-06 01:52:26

End at: 2018-07-06 01:52:56

Local clock offset: 0.387 ms

Remote clock offset: 0.06 ms

Below is generated by plot.py at 2018-07-06 06:42:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 272.24 Mbit/s

95th percentile per-packet one-way delay: 197.874 ms

Loss rate: 0.39%

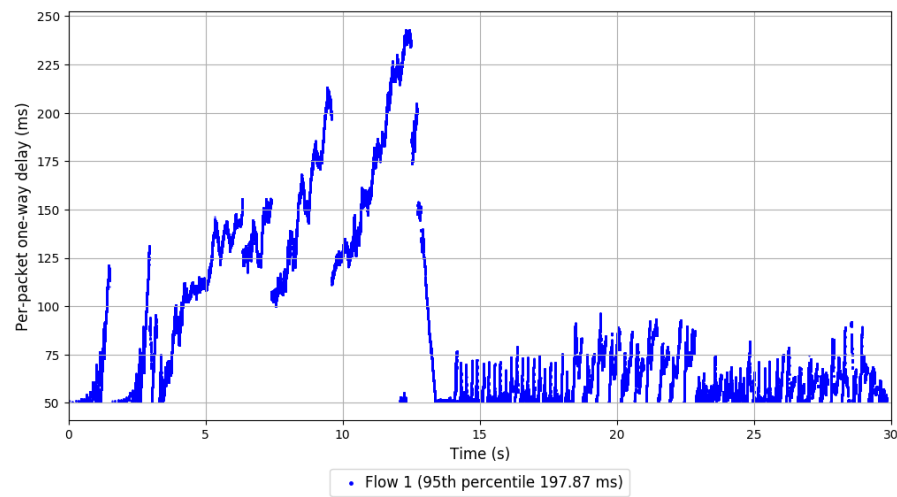
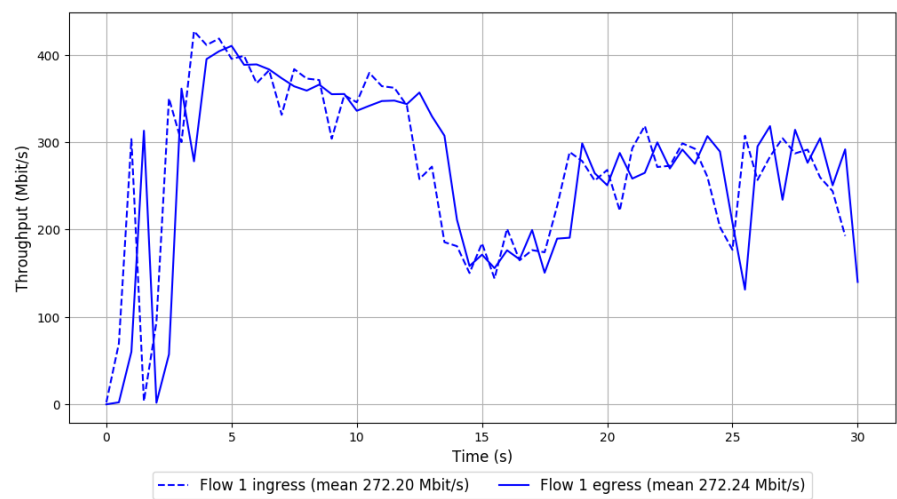
-- Flow 1:

Average throughput: 272.24 Mbit/s

95th percentile per-packet one-way delay: 197.874 ms

Loss rate: 0.39%

Run 1: Report of Verus — Data Link

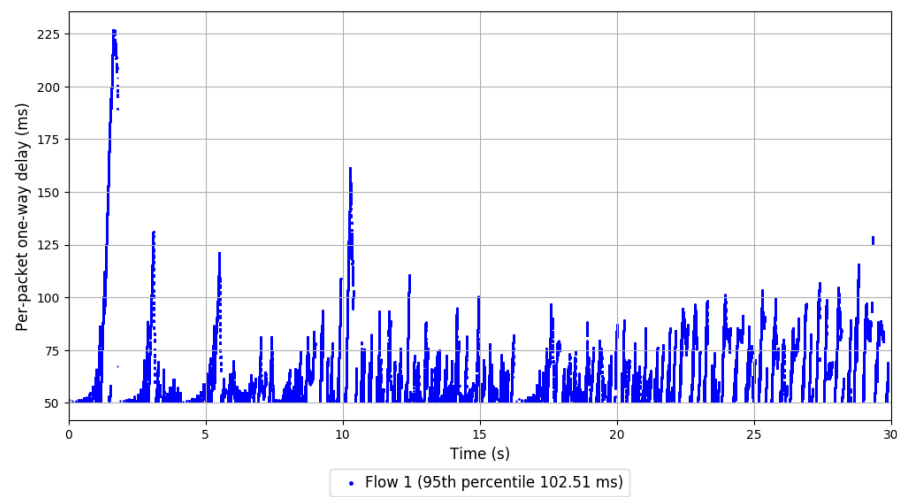
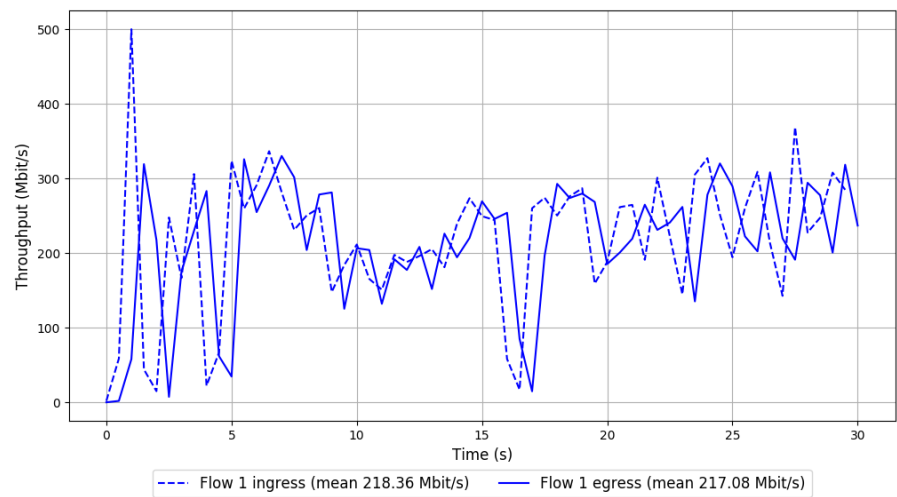


Run 2: Statistics of Verus

Start at: 2018-07-06 02:14:00
End at: 2018-07-06 02:14:30
Local clock offset: 0.759 ms
Remote clock offset: -0.027 ms

Below is generated by plot.py at 2018-07-06 06:42:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 217.08 Mbit/s
95th percentile per-packet one-way delay: 102.507 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 217.08 Mbit/s
95th percentile per-packet one-way delay: 102.507 ms
Loss rate: 0.93%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-06 02:35:10

End at: 2018-07-06 02:35:40

Local clock offset: 0.441 ms

Remote clock offset: -0.21 ms

Below is generated by plot.py at 2018-07-06 06:43:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.89 Mbit/s

95th percentile per-packet one-way delay: 96.350 ms

Loss rate: 0.34%

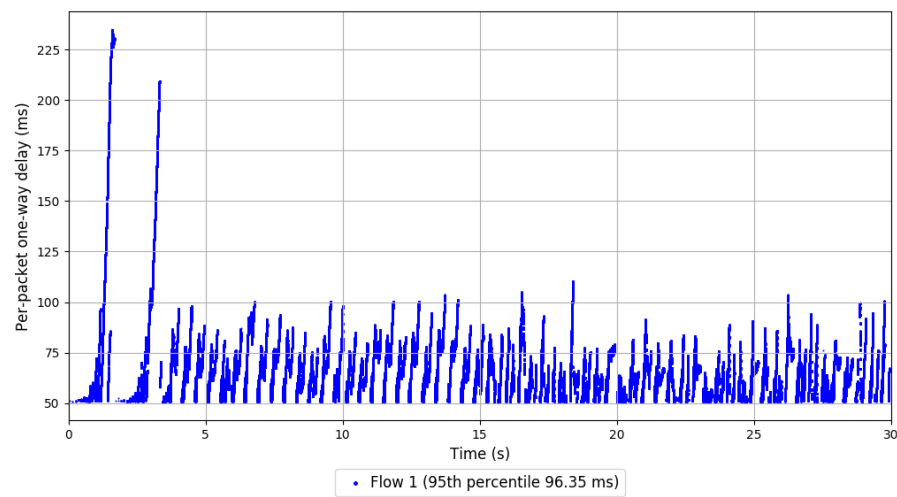
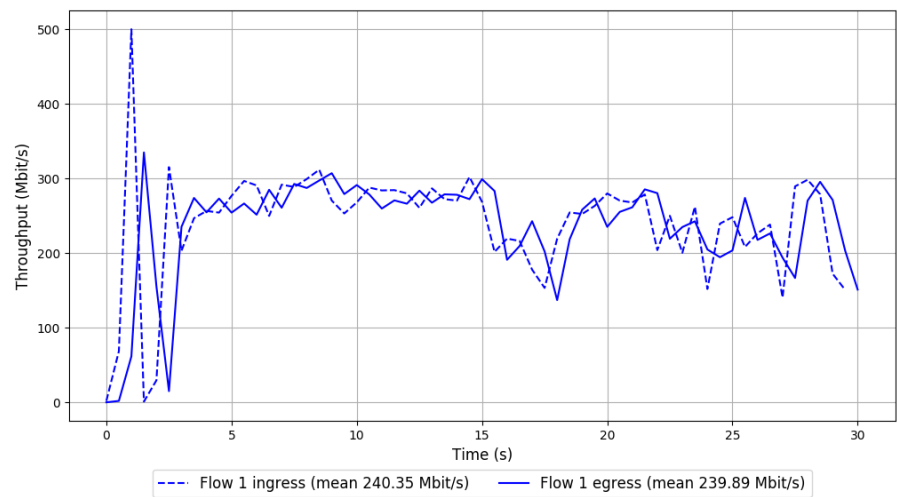
-- Flow 1:

Average throughput: 239.89 Mbit/s

95th percentile per-packet one-way delay: 96.350 ms

Loss rate: 0.34%

Run 3: Report of Verus — Data Link

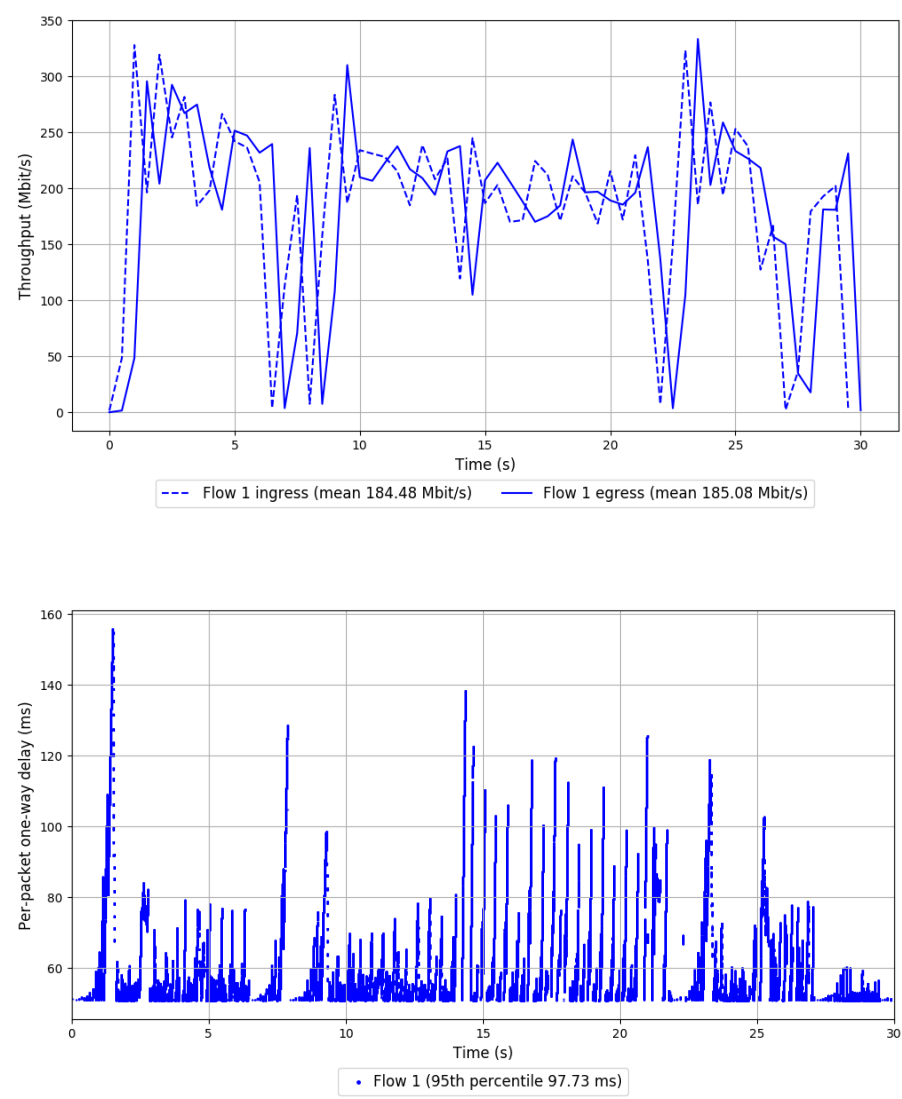


Run 4: Statistics of Verus

Start at: 2018-07-06 02:56:37
End at: 2018-07-06 02:57:07
Local clock offset: 0.329 ms
Remote clock offset: -0.198 ms

Below is generated by plot.py at 2018-07-06 06:43:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 185.08 Mbit/s
95th percentile per-packet one-way delay: 97.727 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 185.08 Mbit/s
95th percentile per-packet one-way delay: 97.727 ms
Loss rate: 0.02%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-07-06 03:18:17

End at: 2018-07-06 03:18:47

Local clock offset: -0.284 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-07-06 06:43:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 245.95 Mbit/s

95th percentile per-packet one-way delay: 83.465 ms

Loss rate: 0.74%

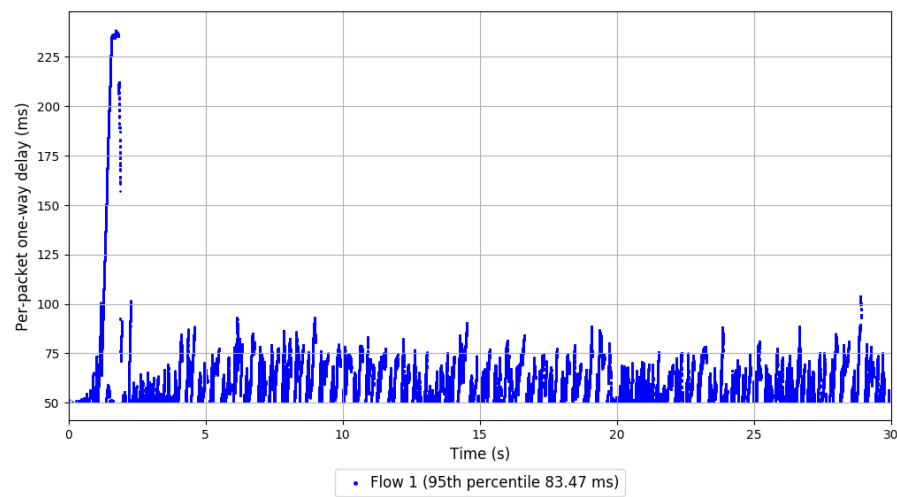
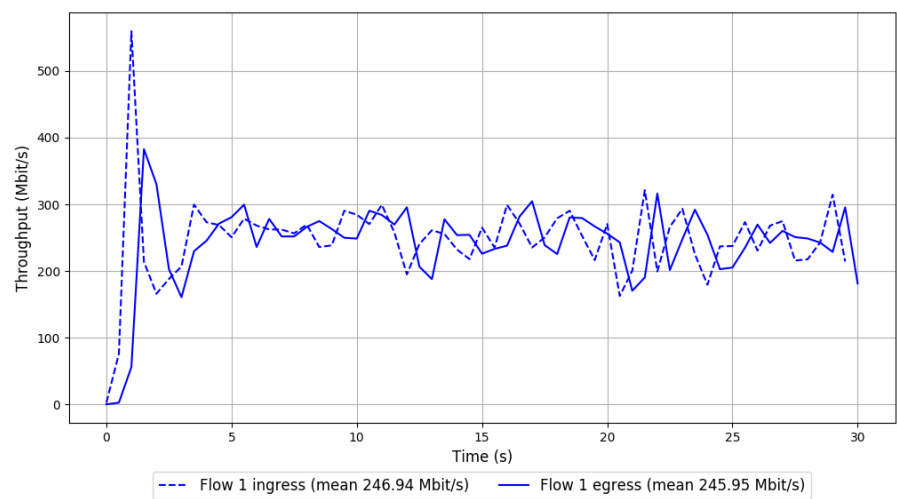
-- Flow 1:

Average throughput: 245.95 Mbit/s

95th percentile per-packet one-way delay: 83.465 ms

Loss rate: 0.74%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-07-06 03:39:57

End at: 2018-07-06 03:40:27

Local clock offset: -0.774 ms

Remote clock offset: 0.044 ms

Below is generated by plot.py at 2018-07-06 06:43:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.92 Mbit/s

95th percentile per-packet one-way delay: 85.527 ms

Loss rate: 0.86%

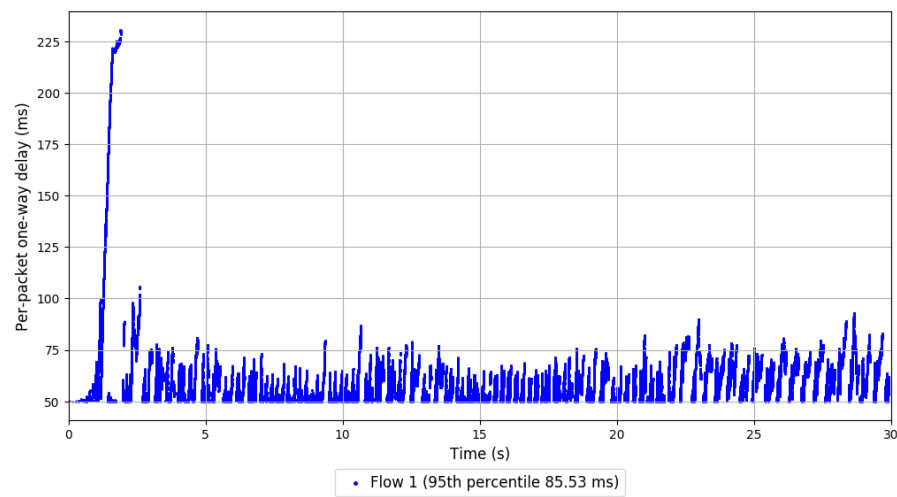
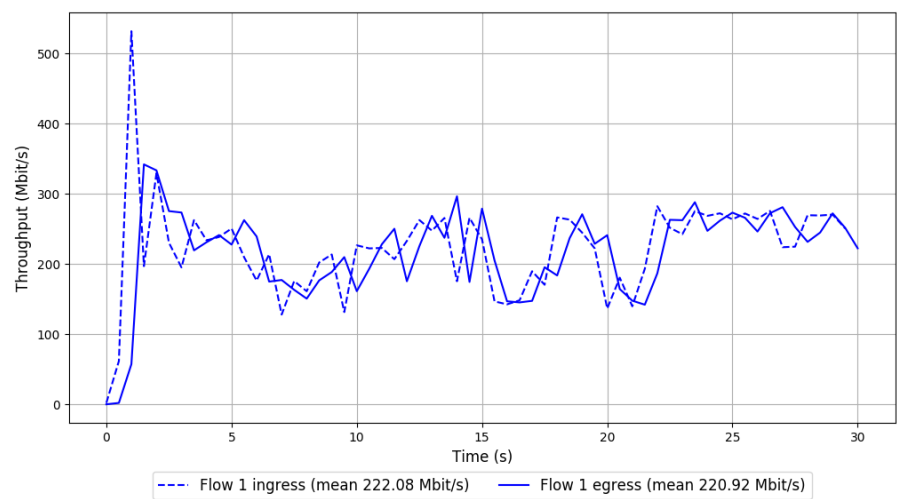
-- Flow 1:

Average throughput: 220.92 Mbit/s

95th percentile per-packet one-way delay: 85.527 ms

Loss rate: 0.86%

Run 6: Report of Verus — Data Link

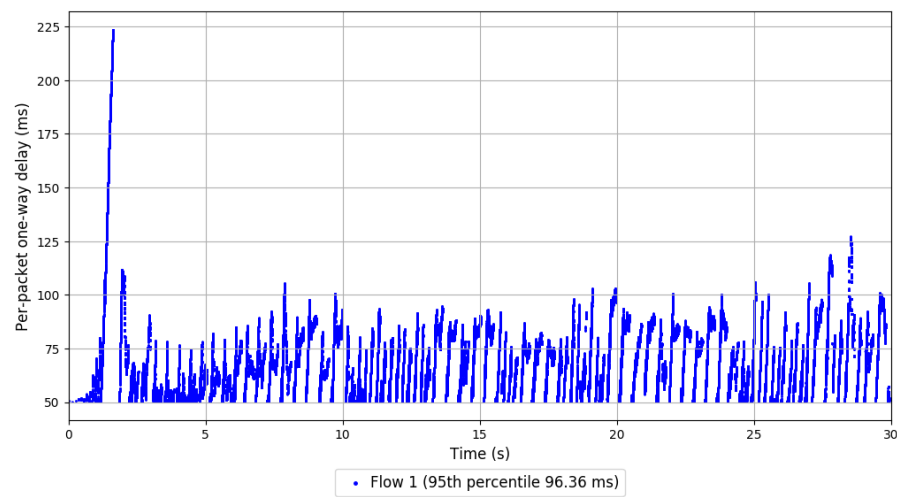
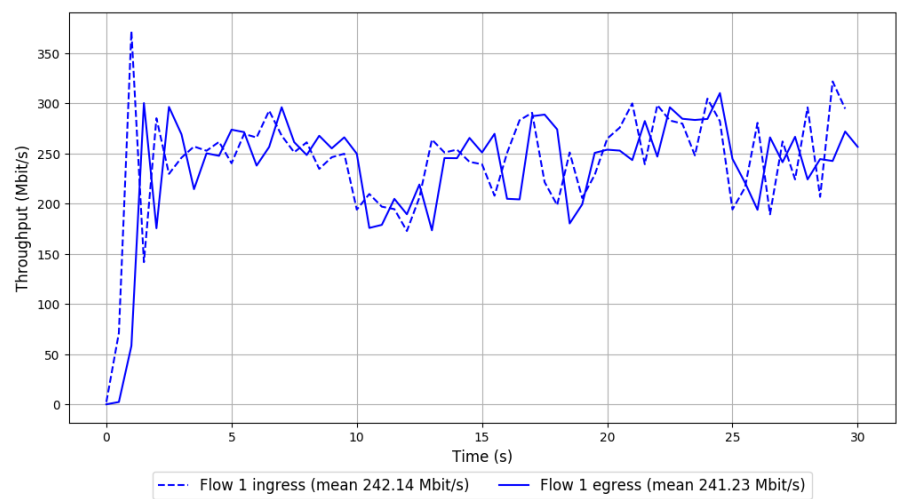


Run 7: Statistics of Verus

Start at: 2018-07-06 04:01:40
End at: 2018-07-06 04:02:10
Local clock offset: -0.539 ms
Remote clock offset: 0.074 ms

Below is generated by plot.py at 2018-07-06 06:44:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 241.23 Mbit/s
95th percentile per-packet one-way delay: 96.356 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 241.23 Mbit/s
95th percentile per-packet one-way delay: 96.356 ms
Loss rate: 0.71%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-07-06 04:23:06

End at: 2018-07-06 04:23:36

Local clock offset: -0.702 ms

Remote clock offset: 0.361 ms

Below is generated by plot.py at 2018-07-06 06:44:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.34 Mbit/s

95th percentile per-packet one-way delay: 96.084 ms

Loss rate: 0.27%

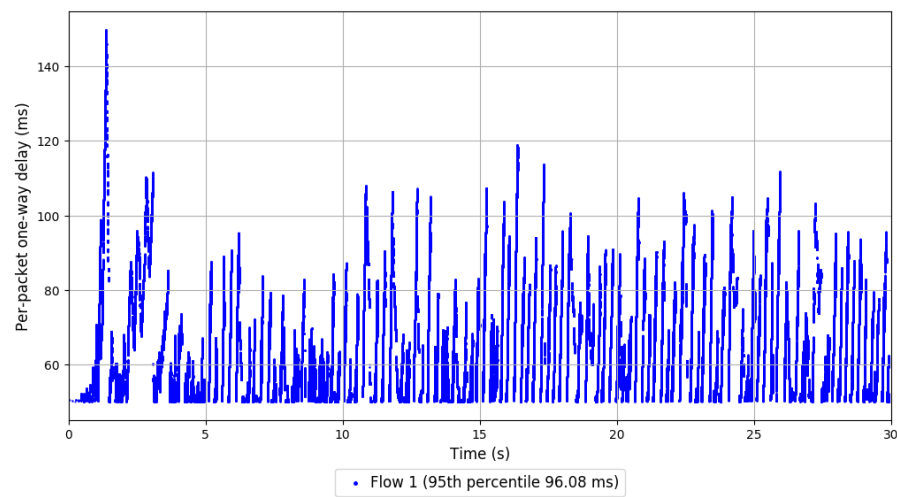
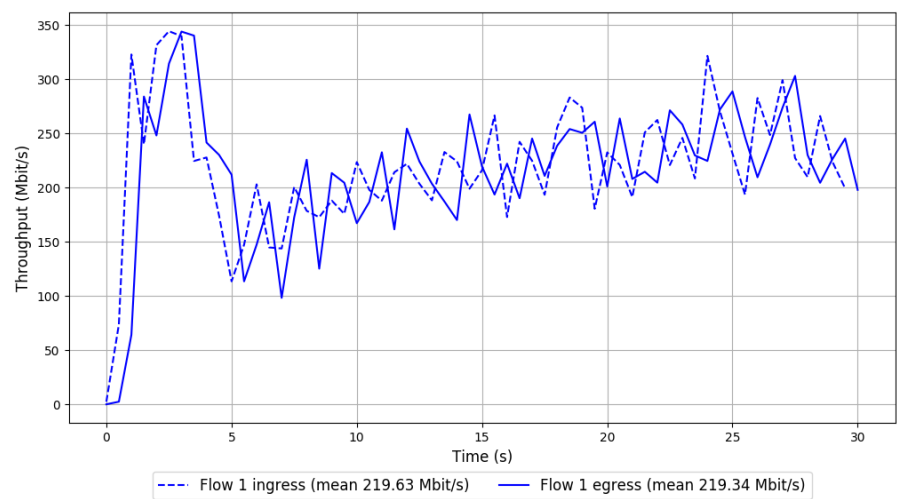
-- Flow 1:

Average throughput: 219.34 Mbit/s

95th percentile per-packet one-way delay: 96.084 ms

Loss rate: 0.27%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-06 04:44:36

End at: 2018-07-06 04:45:06

Local clock offset: -0.315 ms

Remote clock offset: 0.099 ms

Below is generated by plot.py at 2018-07-06 06:46:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.42 Mbit/s

95th percentile per-packet one-way delay: 93.964 ms

Loss rate: 0.81%

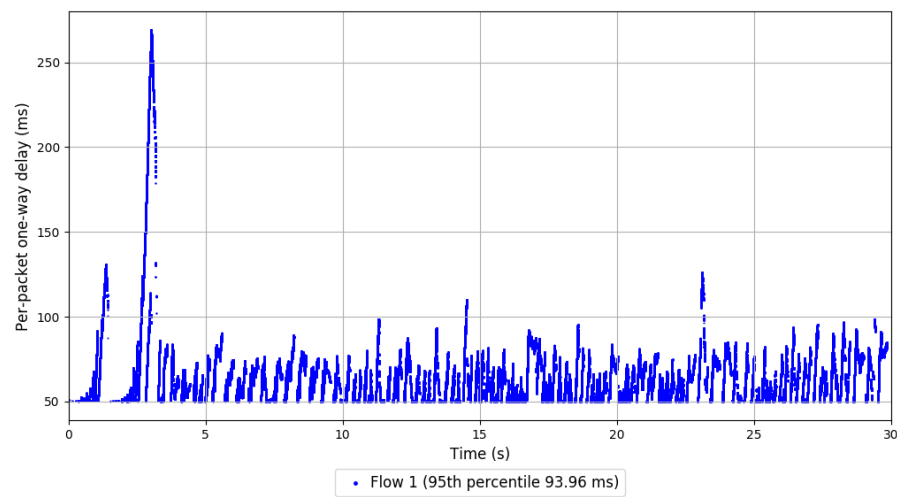
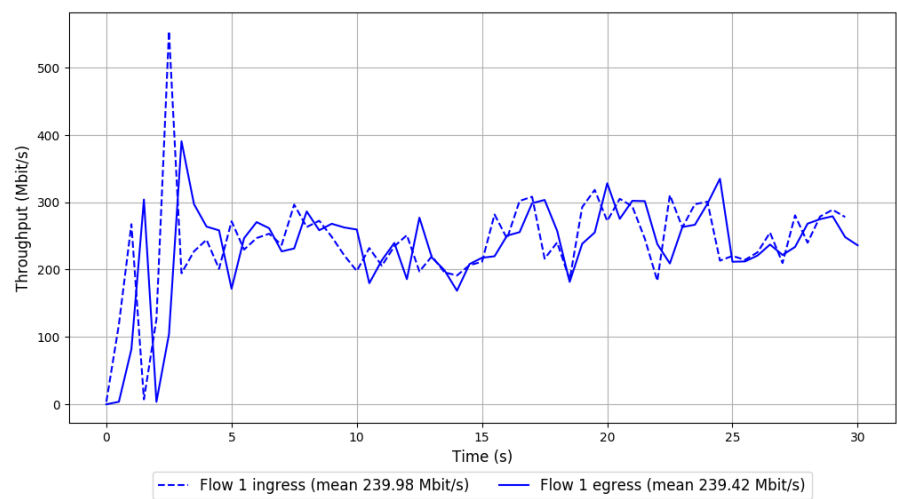
-- Flow 1:

Average throughput: 239.42 Mbit/s

95th percentile per-packet one-way delay: 93.964 ms

Loss rate: 0.81%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-07-06 05:06:13

End at: 2018-07-06 05:06:43

Local clock offset: 0.064 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-07-06 06:46:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.65 Mbit/s

95th percentile per-packet one-way delay: 101.186 ms

Loss rate: 0.44%

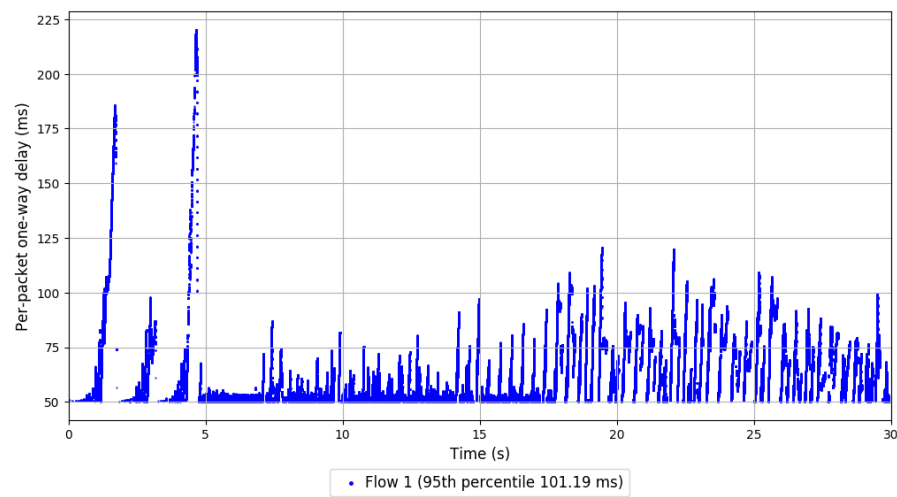
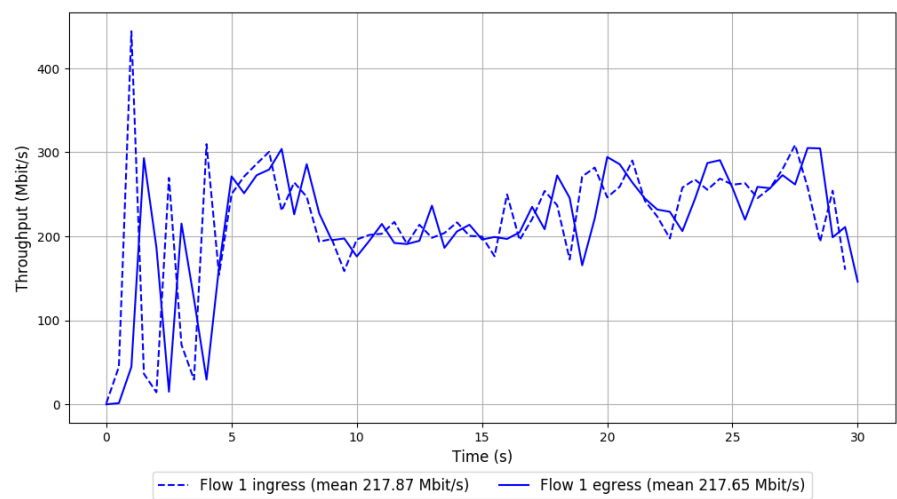
-- Flow 1:

Average throughput: 217.65 Mbit/s

95th percentile per-packet one-way delay: 101.186 ms

Loss rate: 0.44%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-07-06 01:47:26

End at: 2018-07-06 01:47:56

Local clock offset: 0.375 ms

Remote clock offset: 0.04 ms

Below is generated by plot.py at 2018-07-06 06:47:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 297.08 Mbit/s

95th percentile per-packet one-way delay: 51.317 ms

Loss rate: 0.34%

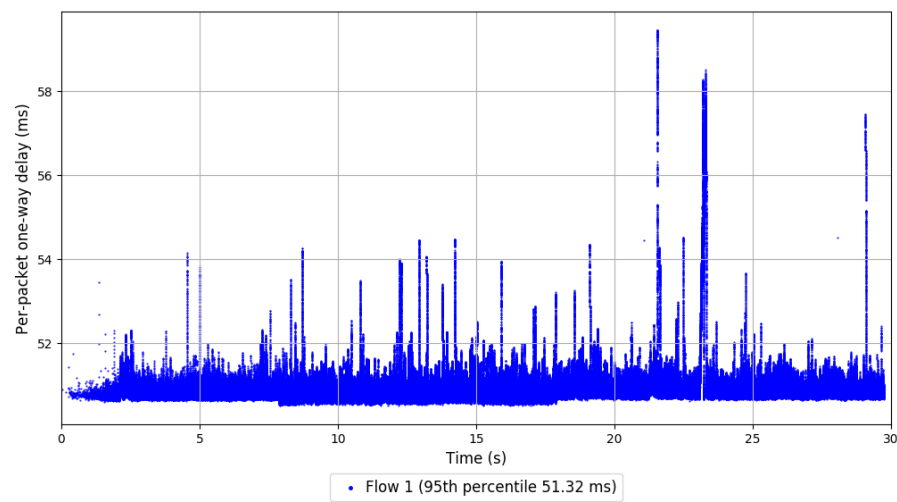
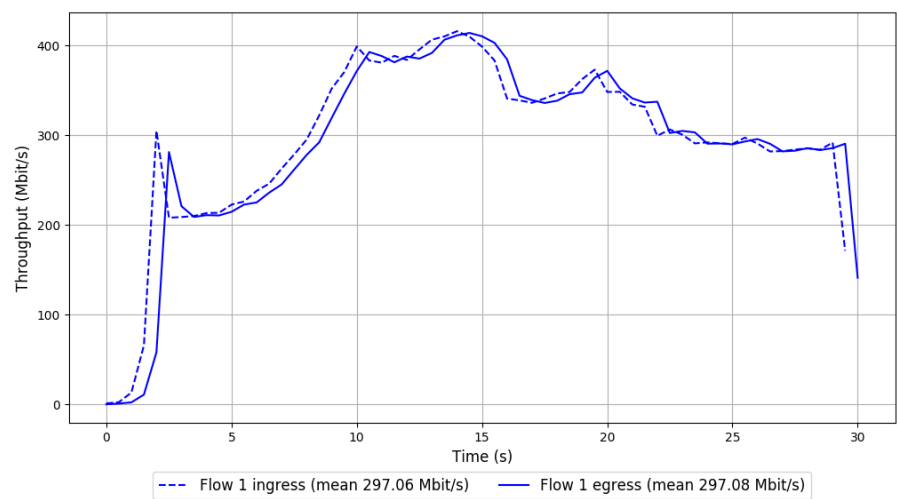
-- Flow 1:

Average throughput: 297.08 Mbit/s

95th percentile per-packet one-way delay: 51.317 ms

Loss rate: 0.34%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-07-06 02:08:52

End at: 2018-07-06 02:09:22

Local clock offset: 0.451 ms

Remote clock offset: -0.001 ms

Below is generated by plot.py at 2018-07-06 06:48:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 312.21 Mbit/s

95th percentile per-packet one-way delay: 52.033 ms

Loss rate: 0.40%

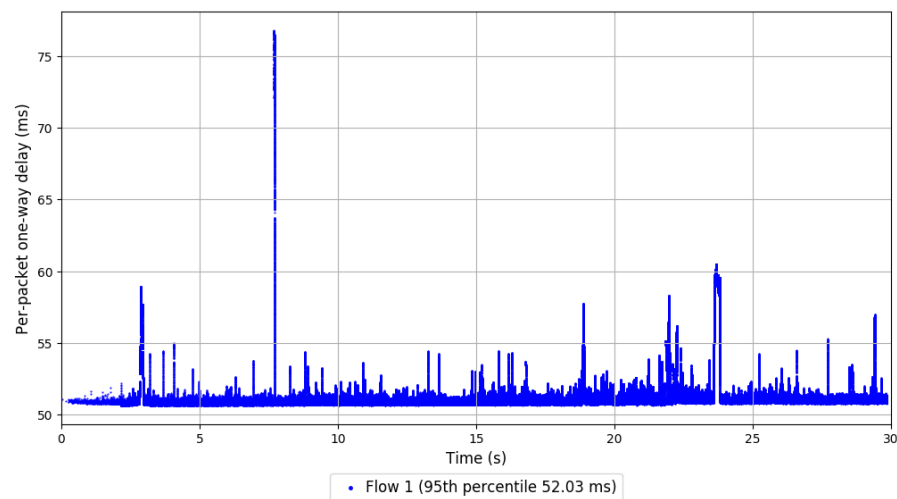
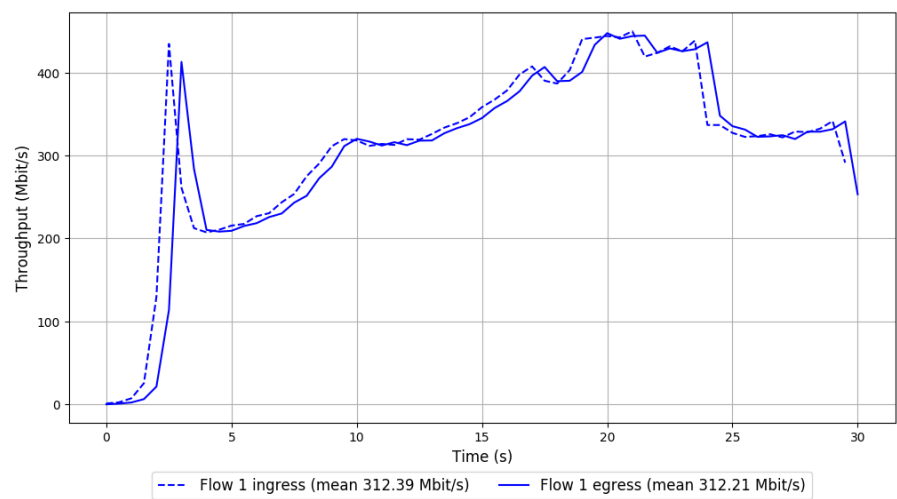
-- Flow 1:

Average throughput: 312.21 Mbit/s

95th percentile per-packet one-way delay: 52.033 ms

Loss rate: 0.40%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-06 02:30:08

End at: 2018-07-06 02:30:38

Local clock offset: 0.09 ms

Remote clock offset: -0.145 ms

Below is generated by plot.py at 2018-07-06 06:48:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 277.04 Mbit/s

95th percentile per-packet one-way delay: 130.222 ms

Loss rate: 0.41%

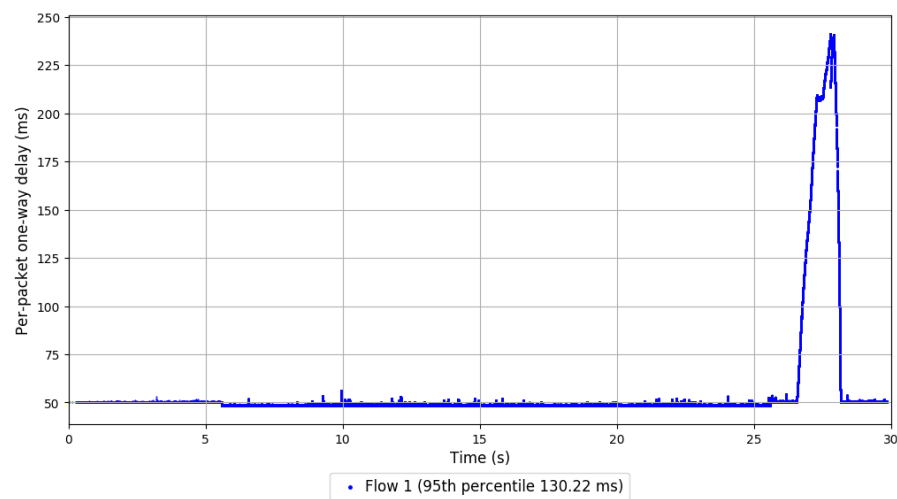
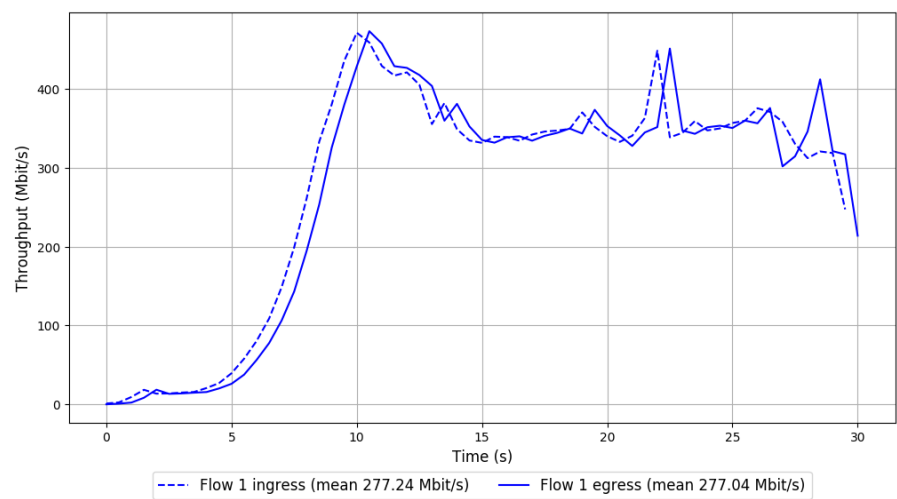
-- Flow 1:

Average throughput: 277.04 Mbit/s

95th percentile per-packet one-way delay: 130.222 ms

Loss rate: 0.41%

Run 3: Report of PCC-Vivace — Data Link

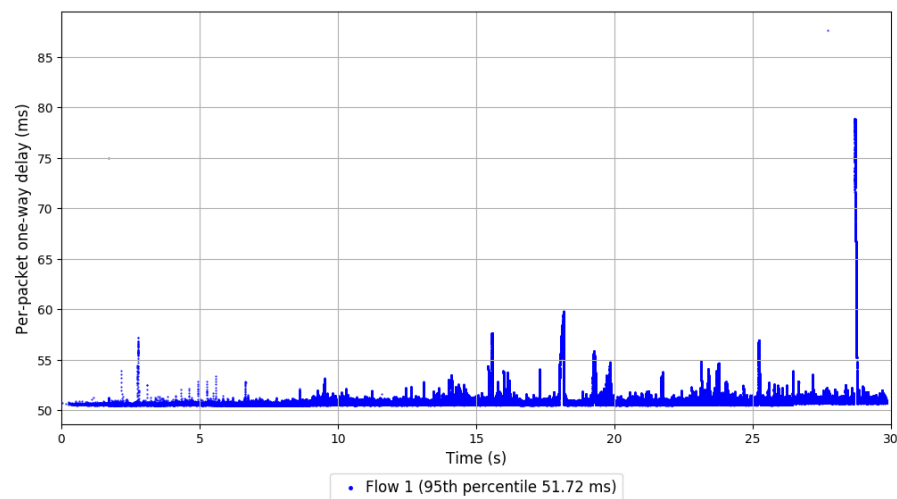
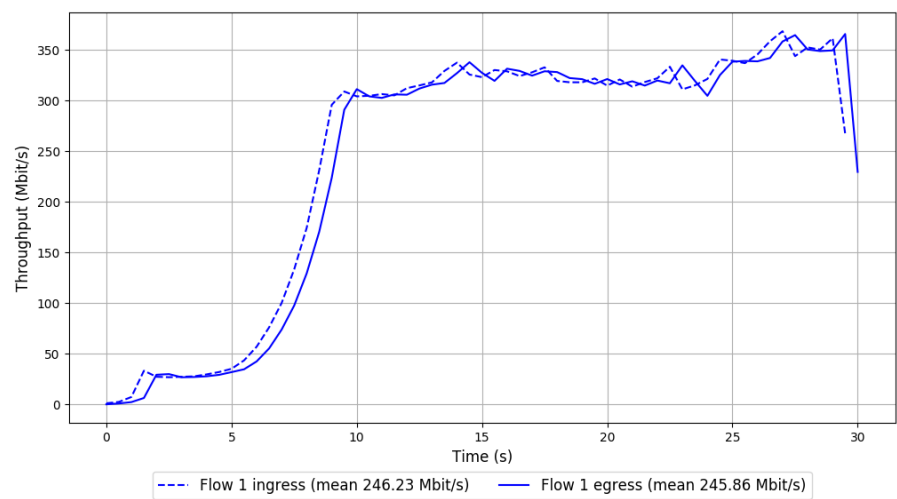


Run 4: Statistics of PCC-Vivace

Start at: 2018-07-06 02:51:37
End at: 2018-07-06 02:52:07
Local clock offset: 0.412 ms
Remote clock offset: -0.254 ms

Below is generated by plot.py at 2018-07-06 06:48:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 245.86 Mbit/s
95th percentile per-packet one-way delay: 51.717 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 245.86 Mbit/s
95th percentile per-packet one-way delay: 51.717 ms
Loss rate: 0.49%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-06 03:13:12

End at: 2018-07-06 03:13:42

Local clock offset: -0.548 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-07-06 06:50:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 352.23 Mbit/s

95th percentile per-packet one-way delay: 50.891 ms

Loss rate: 0.40%

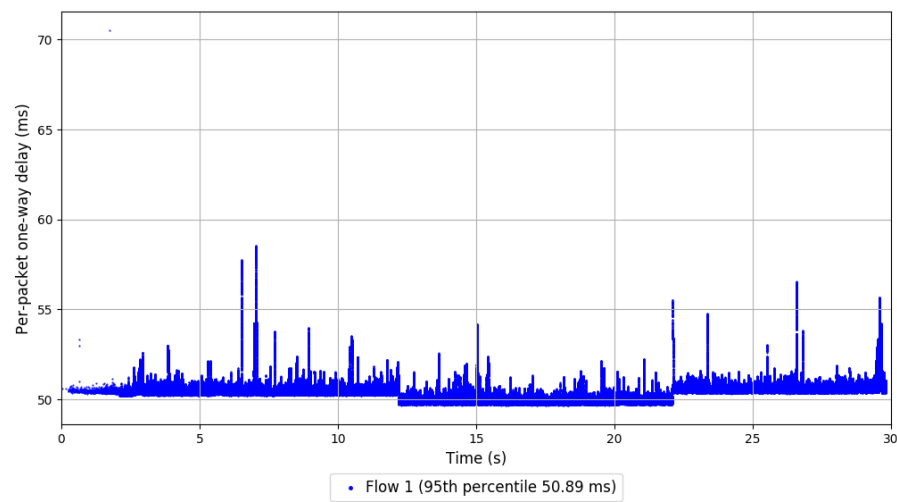
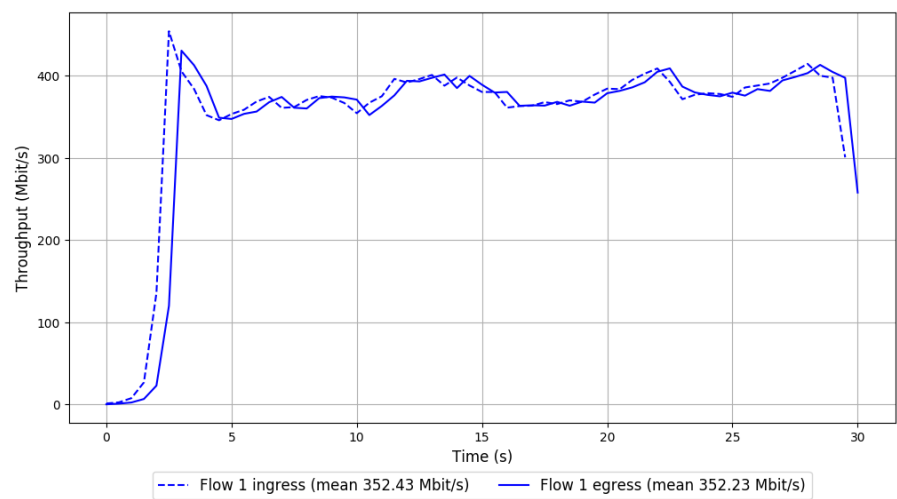
-- Flow 1:

Average throughput: 352.23 Mbit/s

95th percentile per-packet one-way delay: 50.891 ms

Loss rate: 0.40%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-06 03:34:51

End at: 2018-07-06 03:35:21

Local clock offset: -0.004 ms

Remote clock offset: 0.073 ms

Below is generated by plot.py at 2018-07-06 06:50:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 353.60 Mbit/s

95th percentile per-packet one-way delay: 52.028 ms

Loss rate: 0.35%

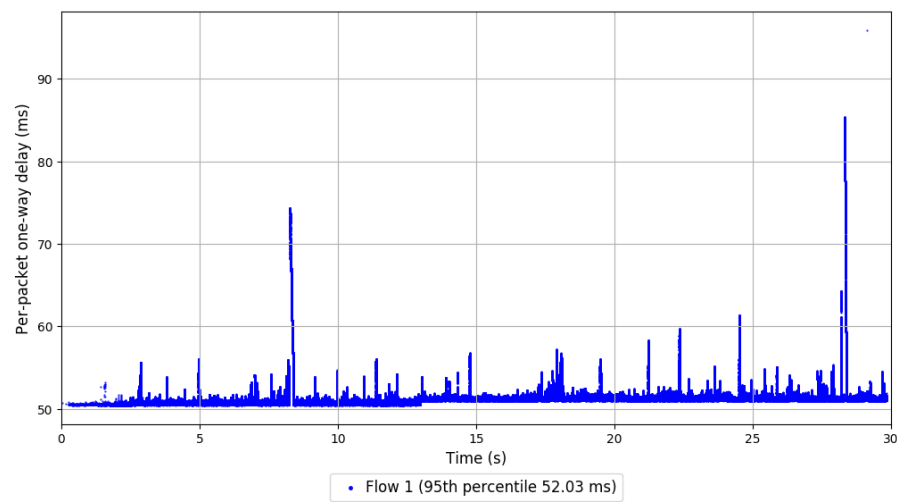
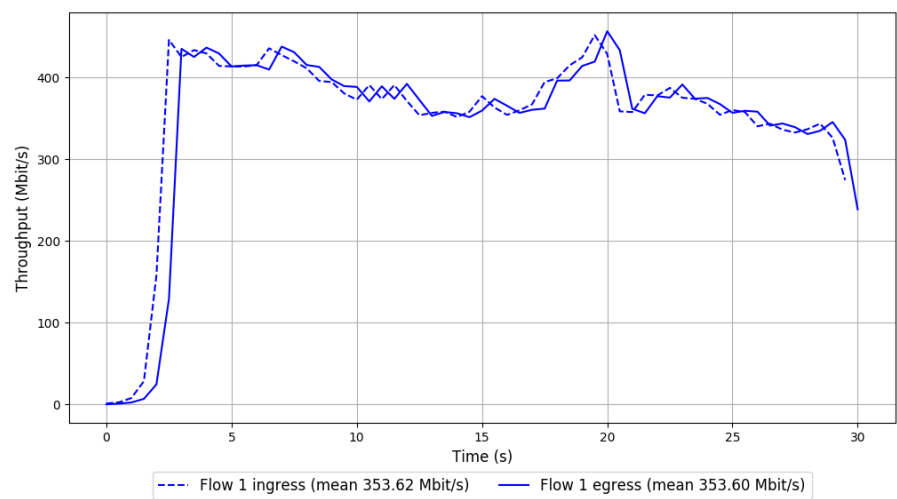
-- Flow 1:

Average throughput: 353.60 Mbit/s

95th percentile per-packet one-way delay: 52.028 ms

Loss rate: 0.35%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-06 03:56:39

End at: 2018-07-06 03:57:09

Local clock offset: -0.512 ms

Remote clock offset: 0.074 ms

Below is generated by plot.py at 2018-07-06 06:50:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 271.52 Mbit/s

95th percentile per-packet one-way delay: 49.372 ms

Loss rate: 0.43%

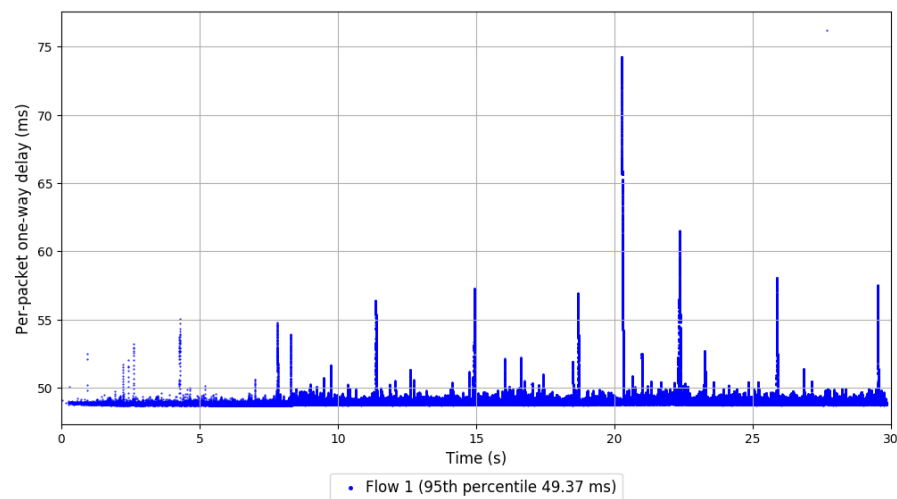
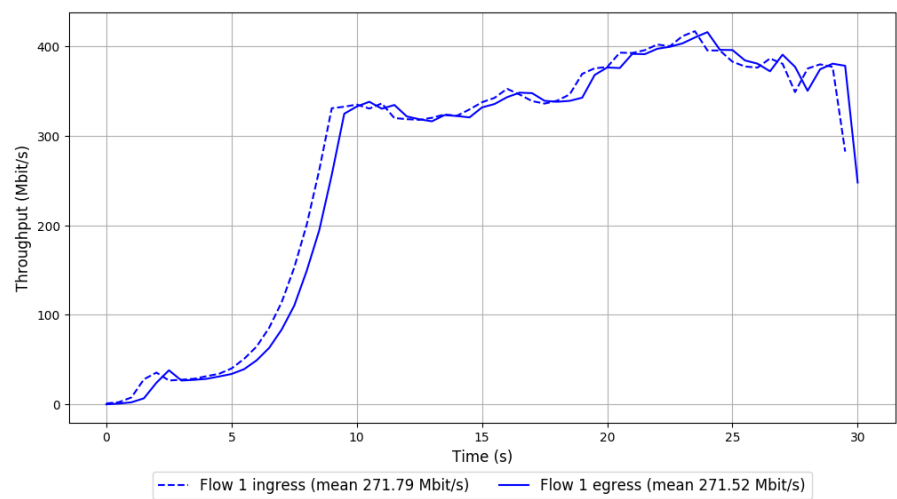
-- Flow 1:

Average throughput: 271.52 Mbit/s

95th percentile per-packet one-way delay: 49.372 ms

Loss rate: 0.43%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-06 04:18:01

End at: 2018-07-06 04:18:31

Local clock offset: -0.653 ms

Remote clock offset: 0.218 ms

Below is generated by plot.py at 2018-07-06 06:51:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 372.65 Mbit/s

95th percentile per-packet one-way delay: 54.097 ms

Loss rate: 0.37%

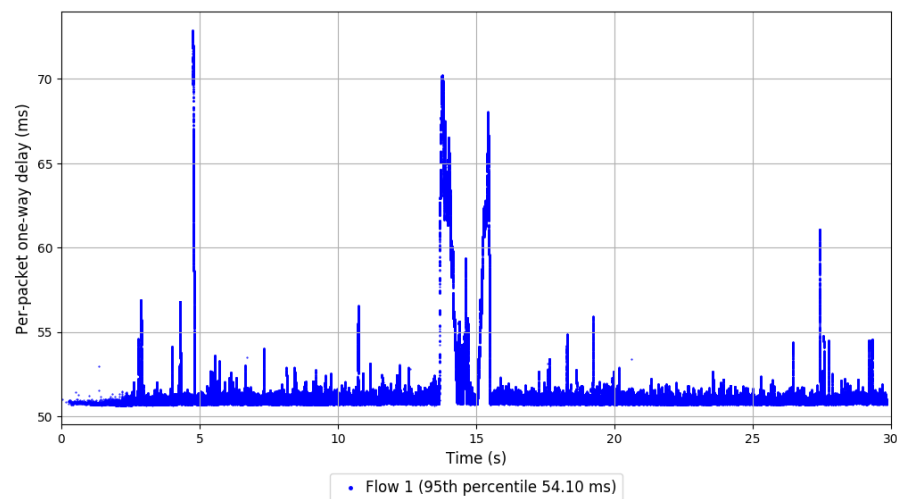
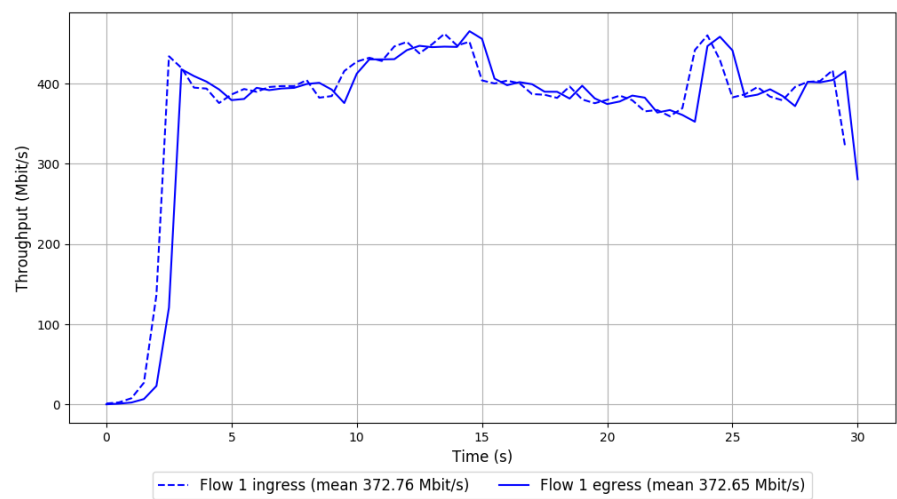
-- Flow 1:

Average throughput: 372.65 Mbit/s

95th percentile per-packet one-way delay: 54.097 ms

Loss rate: 0.37%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-06 04:39:40

End at: 2018-07-06 04:40:10

Local clock offset: -0.546 ms

Remote clock offset: 0.261 ms

Below is generated by plot.py at 2018-07-06 06:51:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 318.40 Mbit/s

95th percentile per-packet one-way delay: 53.642 ms

Loss rate: 0.35%

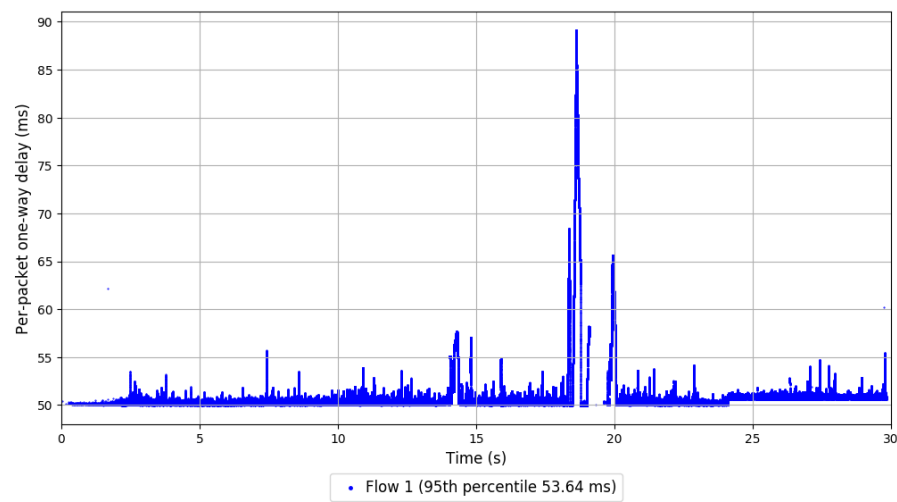
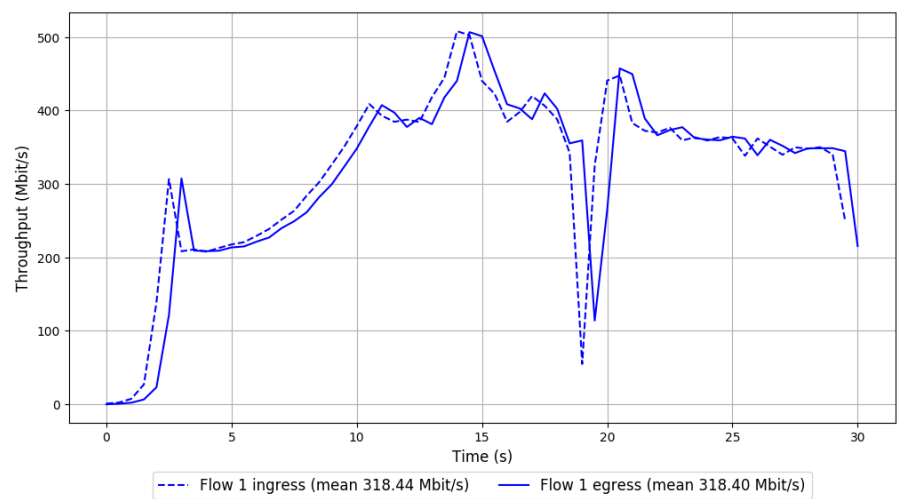
-- Flow 1:

Average throughput: 318.40 Mbit/s

95th percentile per-packet one-way delay: 53.642 ms

Loss rate: 0.35%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-06 05:01:09

End at: 2018-07-06 05:01:39

Local clock offset: -0.015 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-07-06 06:51:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 326.17 Mbit/s

95th percentile per-packet one-way delay: 50.865 ms

Loss rate: 0.47%

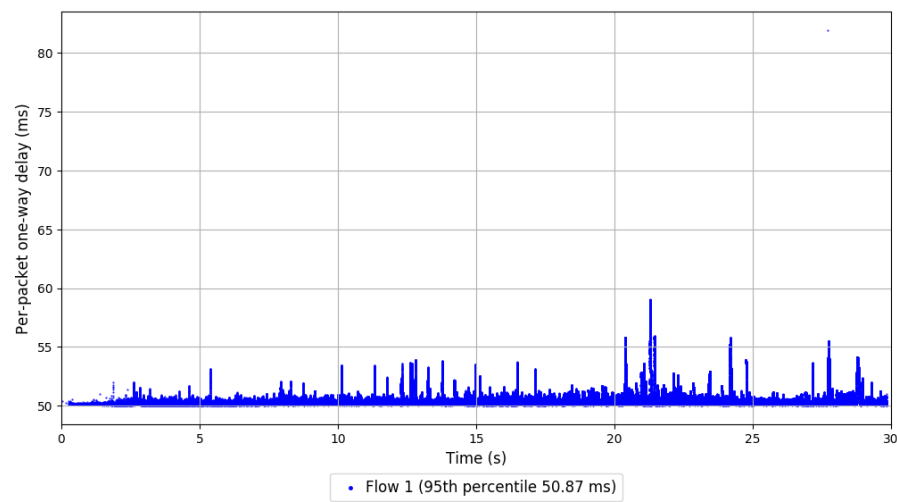
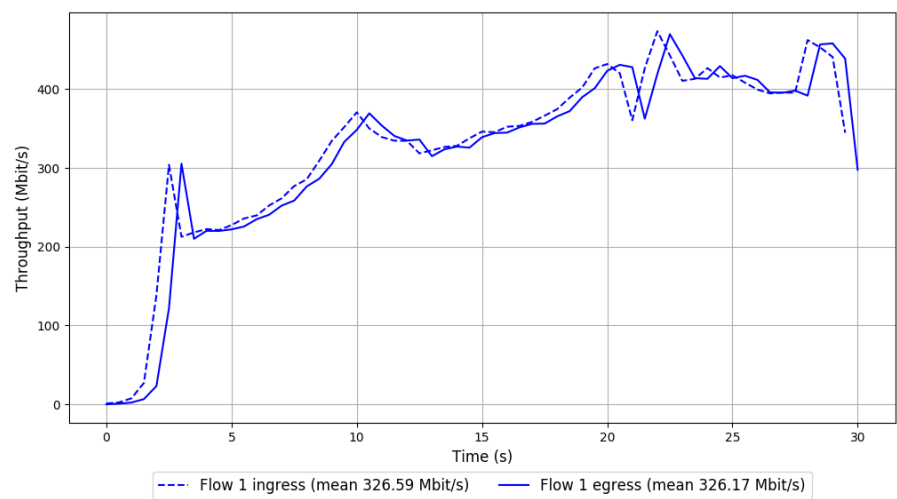
-- Flow 1:

Average throughput: 326.17 Mbit/s

95th percentile per-packet one-way delay: 50.865 ms

Loss rate: 0.47%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

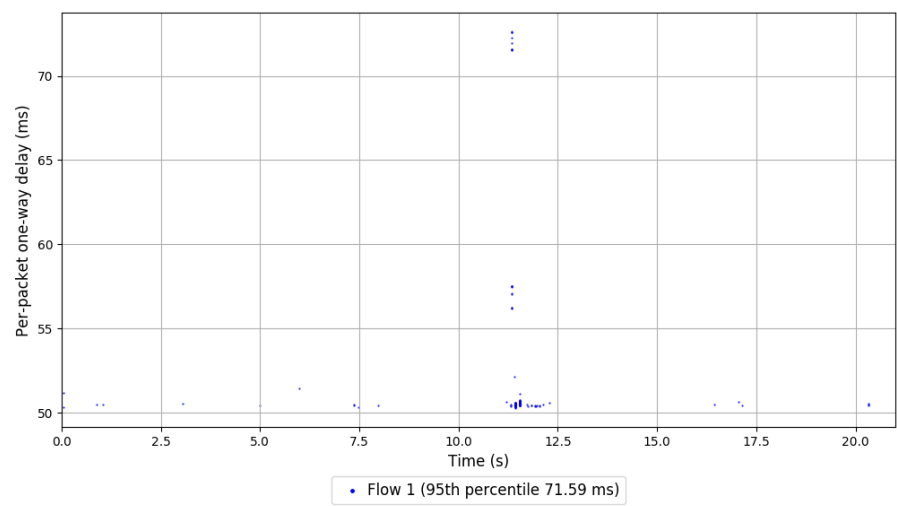
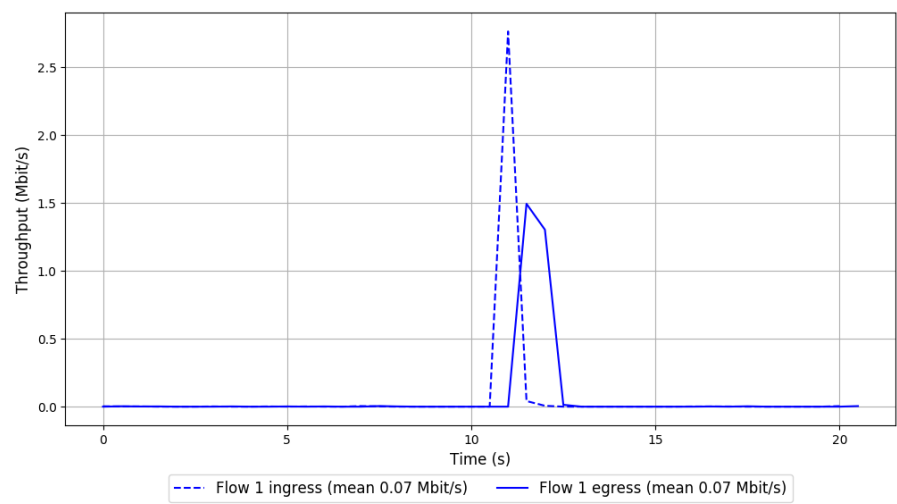
Start at: 2018-07-06 01:37:19

End at: 2018-07-06 01:37:49

Local clock offset: -0.034 ms

Remote clock offset: -0.007 ms

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-06 01:58:40

End at: 2018-07-06 01:59:10

Local clock offset: 0.684 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2018-07-06 06:51:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 51.281 ms

Loss rate: 0.43%

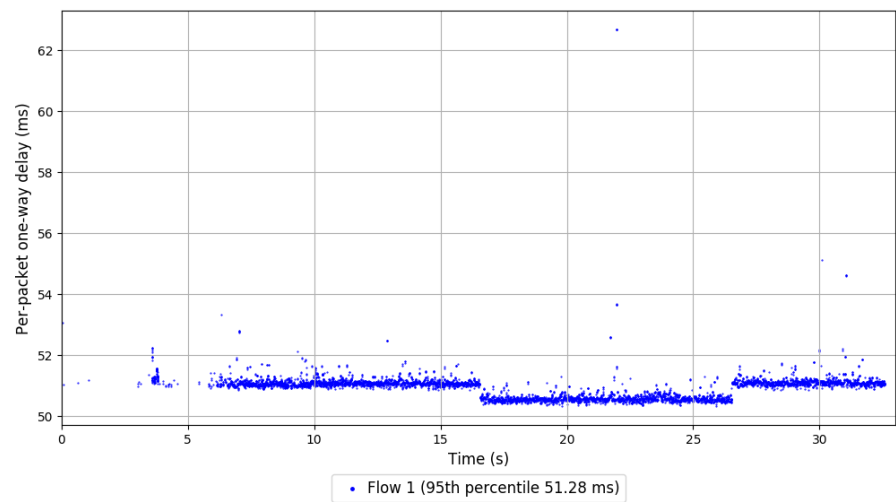
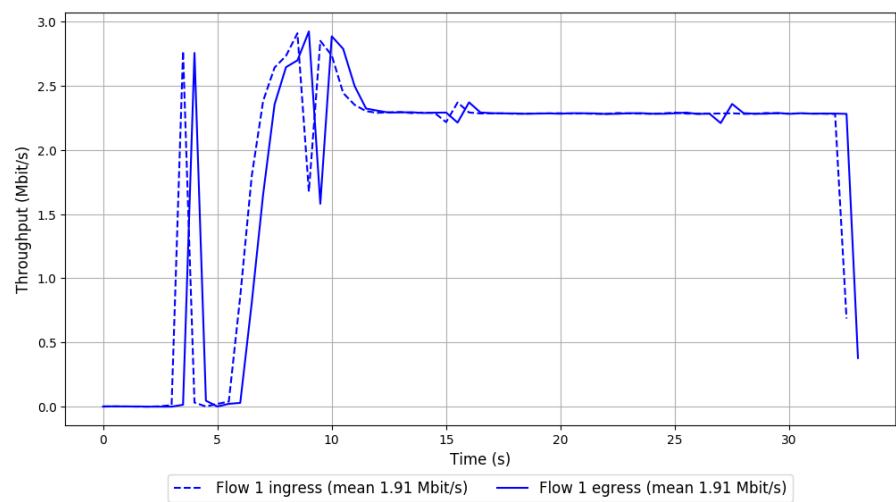
-- Flow 1:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 51.281 ms

Loss rate: 0.43%

Run 2: Report of WebRTC media — Data Link

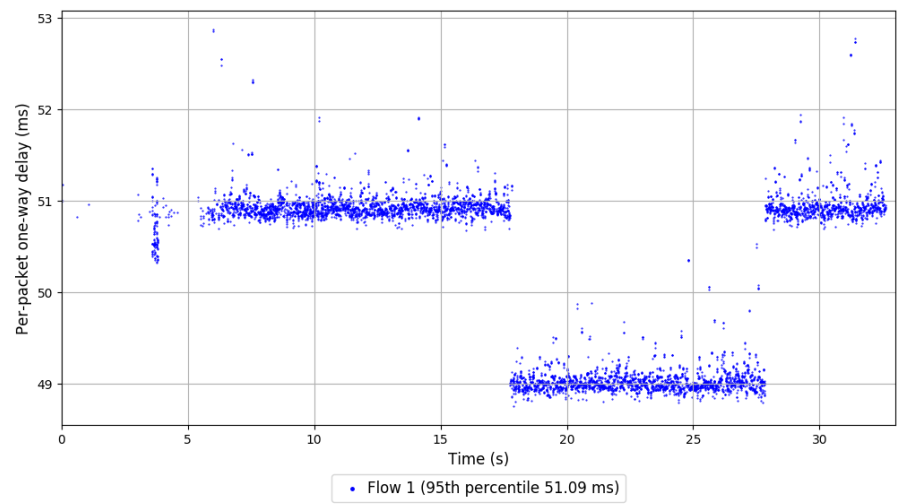
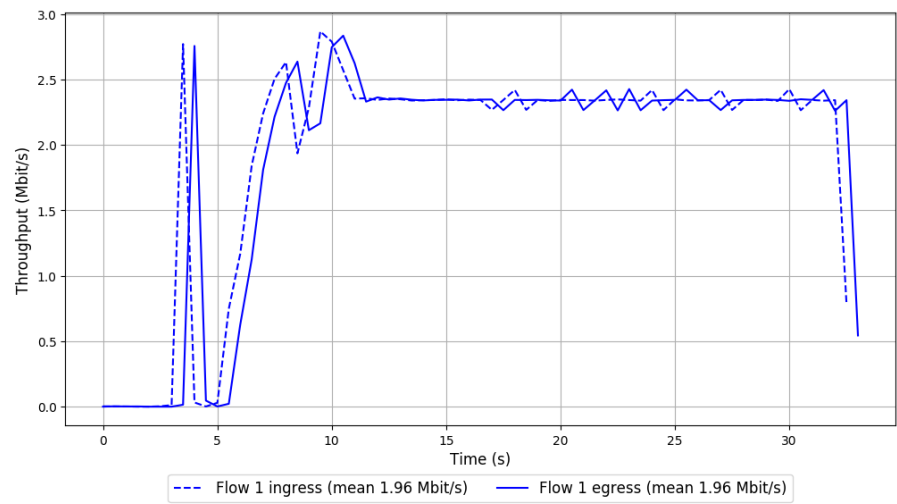


Run 3: Statistics of WebRTC media

Start at: 2018-07-06 02:20:09
End at: 2018-07-06 02:20:39
Local clock offset: 0.452 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2018-07-06 06:51:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 51.090 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 51.090 ms
Loss rate: 0.37%

Run 3: Report of WebRTC media — Data Link

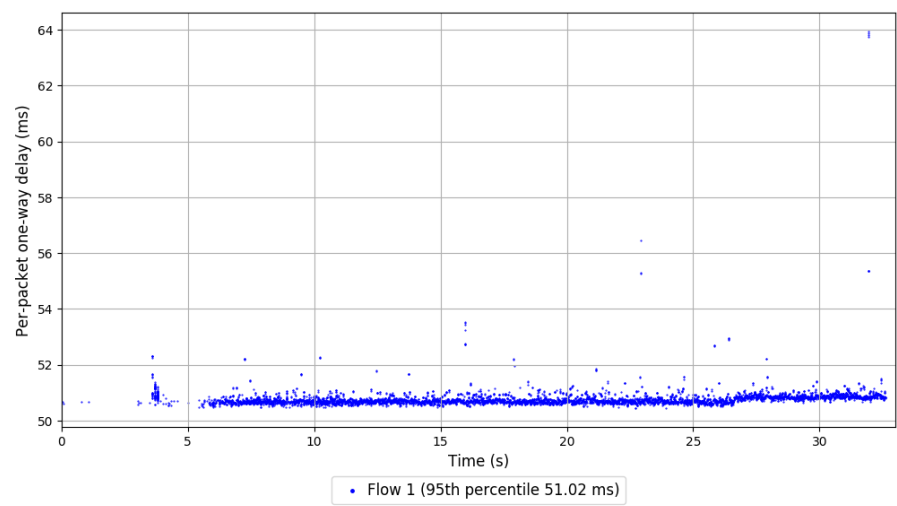
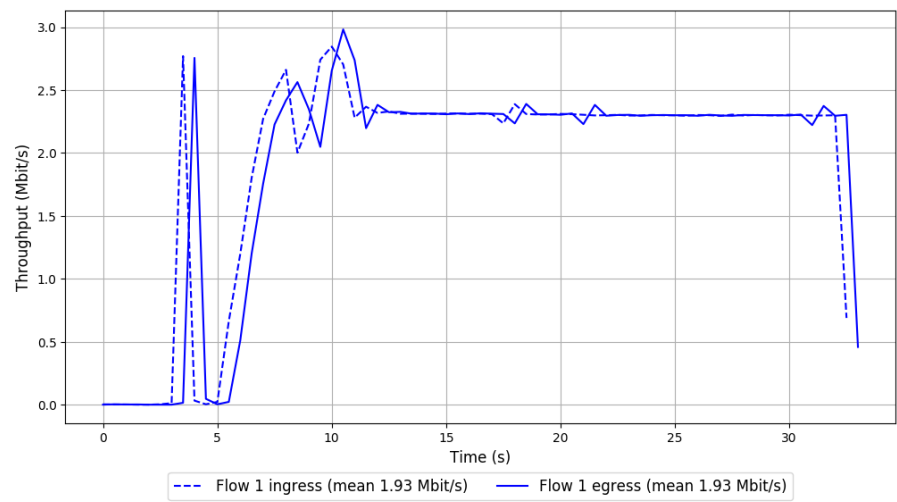


Run 4: Statistics of WebRTC media

Start at: 2018-07-06 02:41:30
End at: 2018-07-06 02:42:00
Local clock offset: 0.447 ms
Remote clock offset: -0.262 ms

Below is generated by plot.py at 2018-07-06 06:51:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 51.019 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 51.019 ms
Loss rate: 0.36%

Run 4: Report of WebRTC media — Data Link

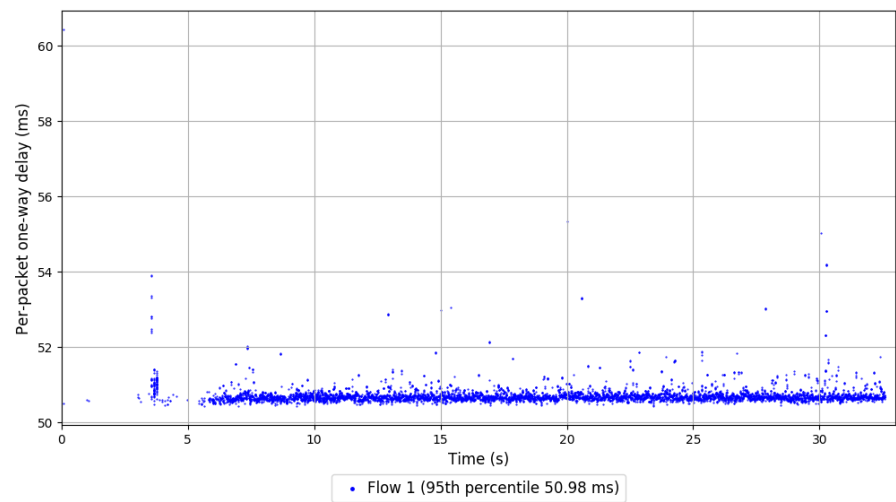
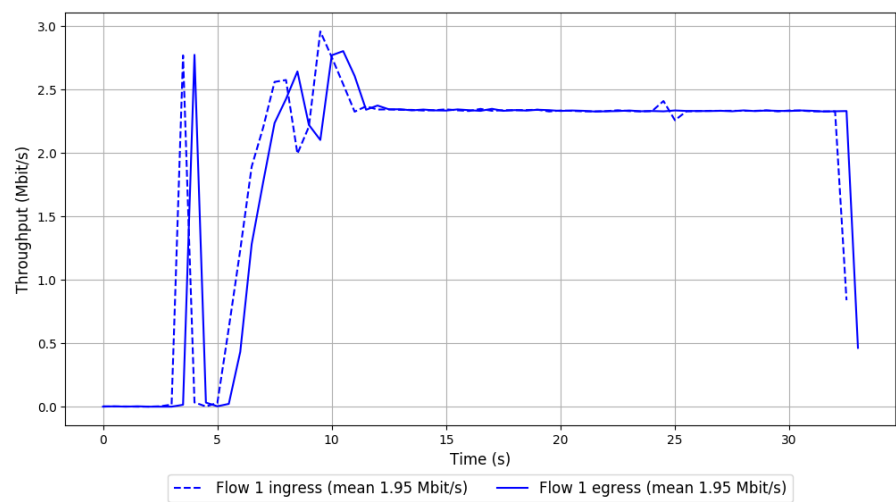


Run 5: Statistics of WebRTC media

Start at: 2018-07-06 03:03:07
End at: 2018-07-06 03:03:37
Local clock offset: 0.038 ms
Remote clock offset: -0.092 ms

Below is generated by plot.py at 2018-07-06 06:51:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 50.983 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 50.983 ms
Loss rate: 0.48%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-06 03:24:42

End at: 2018-07-06 03:25:12

Local clock offset: -0.292 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2018-07-06 06:51:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 51.147 ms

Loss rate: 0.37%

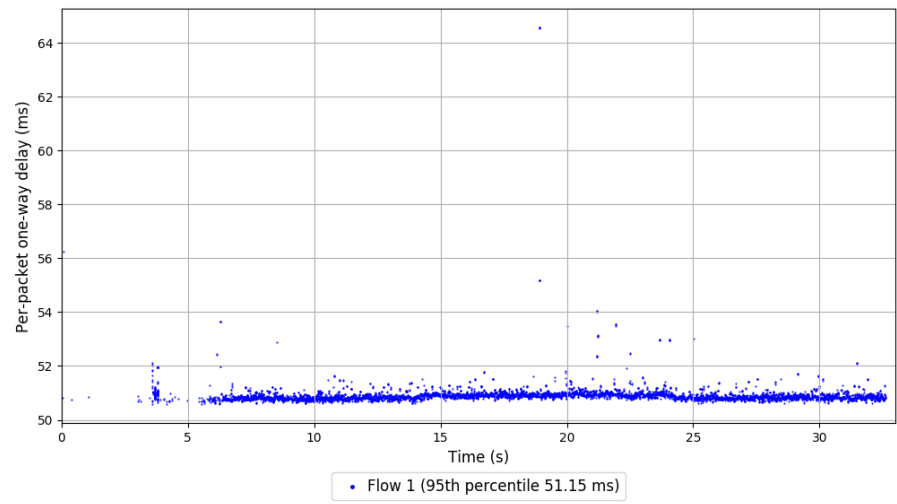
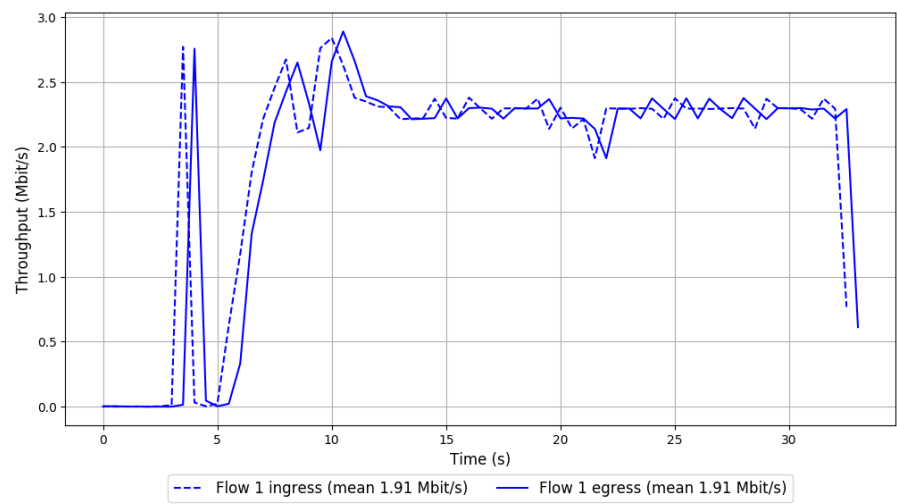
-- Flow 1:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 51.147 ms

Loss rate: 0.37%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-07-06 03:46:23

End at: 2018-07-06 03:46:53

Local clock offset: -0.445 ms

Remote clock offset: 0.203 ms

Below is generated by plot.py at 2018-07-06 06:51:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 50.405 ms

Loss rate: 0.37%

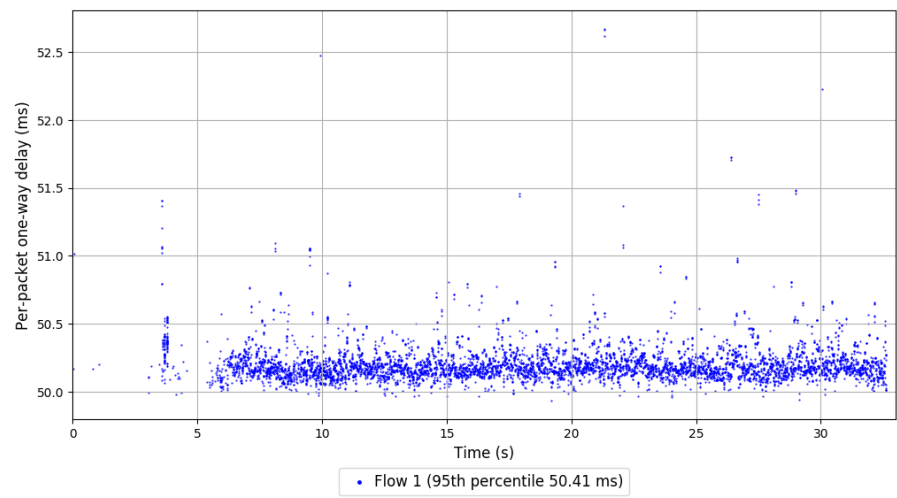
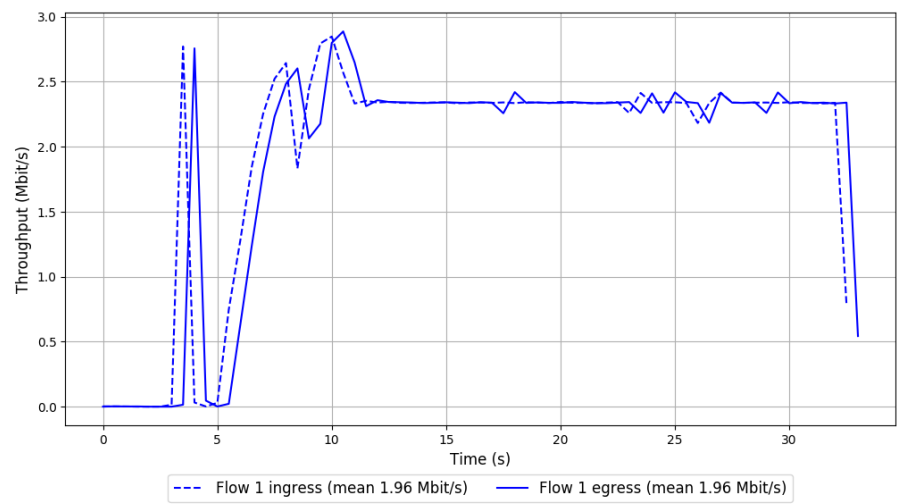
-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 50.405 ms

Loss rate: 0.37%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-06 04:07:59

End at: 2018-07-06 04:08:29

Local clock offset: -0.568 ms

Remote clock offset: 0.161 ms

Below is generated by plot.py at 2018-07-06 06:51:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 50.632 ms

Loss rate: 0.37%

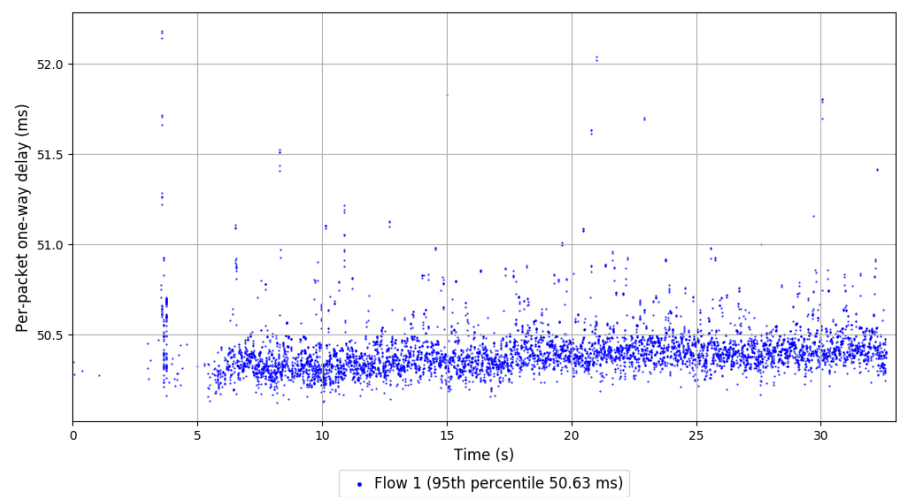
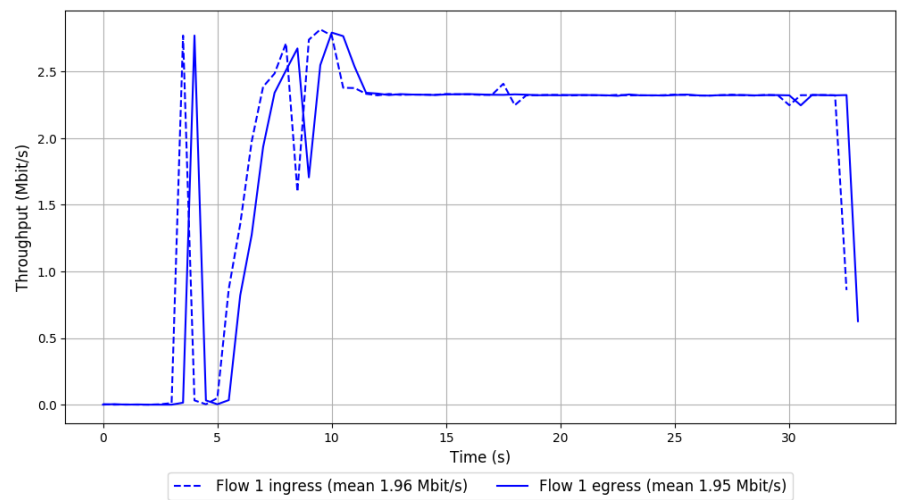
-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 50.632 ms

Loss rate: 0.37%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-06 04:29:29

End at: 2018-07-06 04:29:59

Local clock offset: -0.763 ms

Remote clock offset: 0.393 ms

Below is generated by plot.py at 2018-07-06 06:51:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 51.002 ms

Loss rate: 0.37%

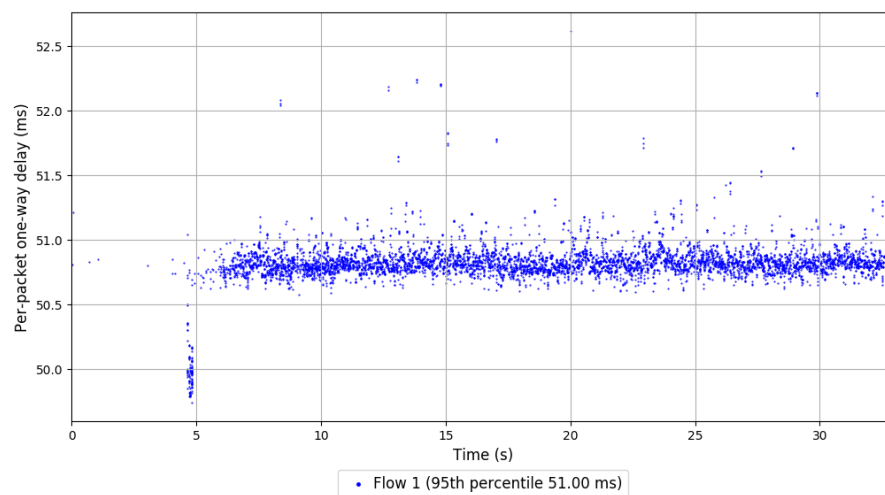
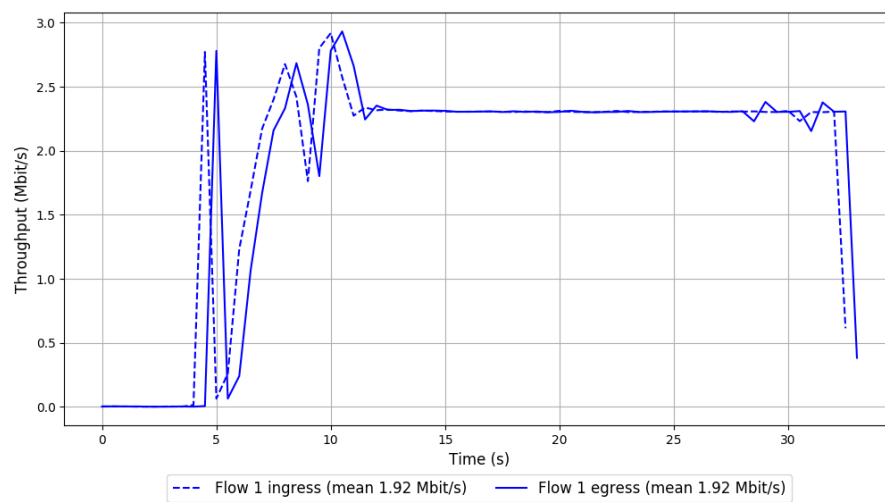
-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 51.002 ms

Loss rate: 0.37%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-06 04:51:04

End at: 2018-07-06 04:51:34

Local clock offset: -0.142 ms

Remote clock offset: 0.116 ms

Below is generated by plot.py at 2018-07-06 06:51:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 49.940 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 49.940 ms

Loss rate: 0.37%

Run 10: Report of WebRTC media — Data Link

