

Pantheon Report

Generated at 2019-03-27 10:06:48 (UTC).

Data path: Stanford on `eno1` (*remote*) → AWS California 1 on `ens5` (*local*).

Repeated the test of 21 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

System info:

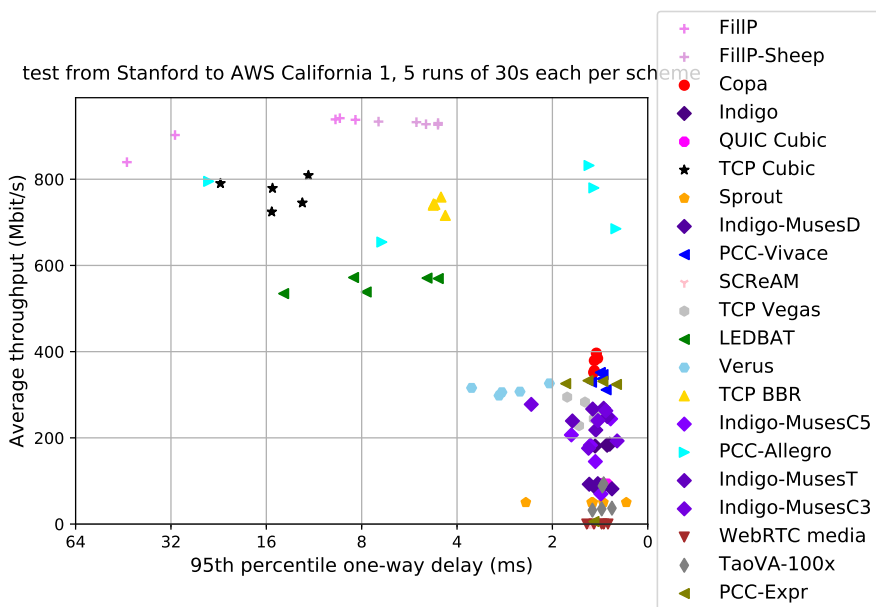
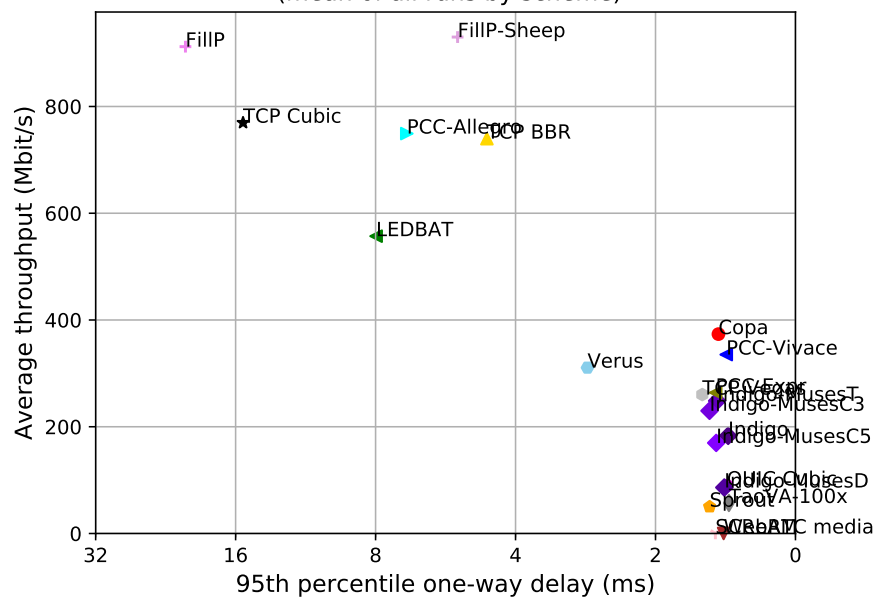
```
Linux 4.15.0-1034-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
  M src/ScreamClient
  M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from Stanford to AWS California 1, 5 runs of 30s each per scheme
(mean of all runs by scheme)



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	739.76	4.61	0.02
Copa	5	373.56	1.10	0.01
TCP Cubic	5	769.53	15.42	0.06
FillP	5	912.08	20.51	0.45
FillP-Sheep	5	930.06	5.33	0.01
Indigo	5	182.94	0.96	0.01
Indigo-MusesC3	5	229.86	1.23	0.01
Indigo-MusesC5	5	169.71	1.13	0.00
Indigo-MusesD	5	86.20	1.02	0.01
Indigo-MusesT	5	248.47	1.12	0.01
LEDBAT	5	557.05	7.98	0.02
PCC-Allegro	5	749.24	6.85	0.06
PCC-Expr	5	263.90	1.14	0.01
QUIC Cubic	5	89.98	0.98	0.01
SCReAM	5	0.22	1.14	0.05
Sprout	5	50.22	1.23	0.00
TaoVA-100x	5	57.22	0.95	0.00
TCP Vegas	5	260.27	1.33	0.01
Verus	5	310.71	2.80	0.01
PCC-Vivace	5	335.21	0.99	0.01
WebRTC media	5	0.05	1.03	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-03-27 06:42:33

End at: 2019-03-27 06:43:03

Local clock offset: -0.367 ms

Remote clock offset: 0.526 ms

Below is generated by plot.py at 2019-03-27 09:15:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 741.61 Mbit/s

95th percentile per-packet one-way delay: 4.699 ms

Loss rate: 0.02%

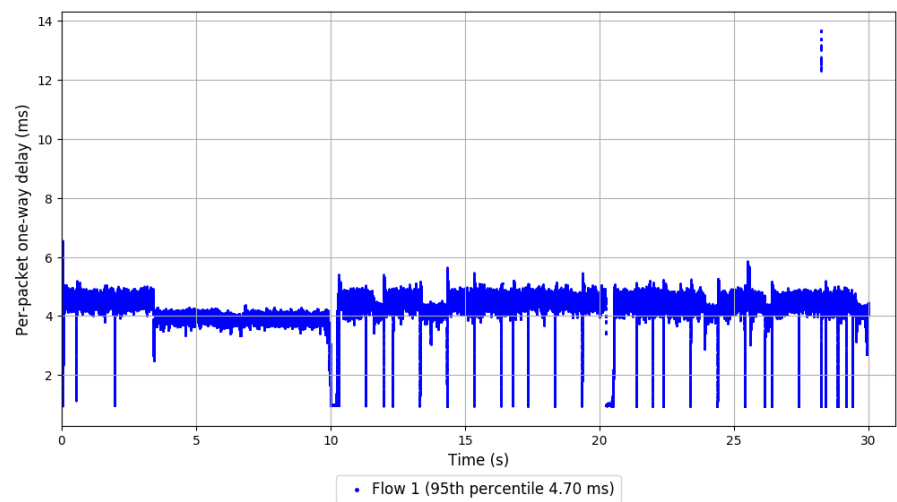
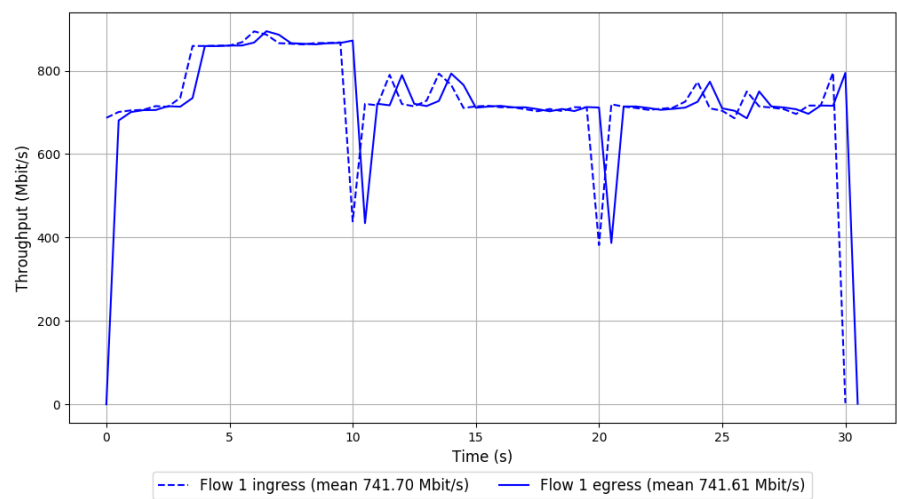
-- Flow 1:

Average throughput: 741.61 Mbit/s

95th percentile per-packet one-way delay: 4.699 ms

Loss rate: 0.02%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-03-27 07:12:02

End at: 2019-03-27 07:12:32

Local clock offset: -3.77 ms

Remote clock offset: 2.815 ms

Below is generated by plot.py at 2019-03-27 09:15:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 739.72 Mbit/s

95th percentile per-packet one-way delay: 4.754 ms

Loss rate: 0.02%

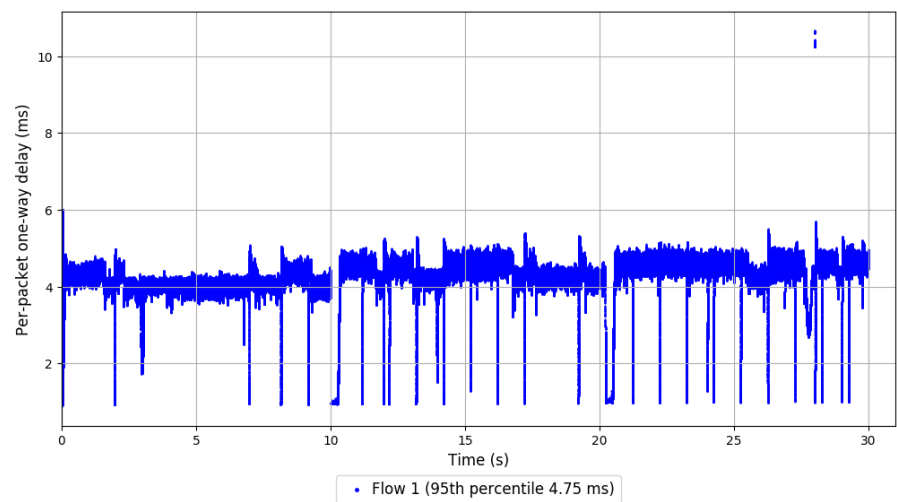
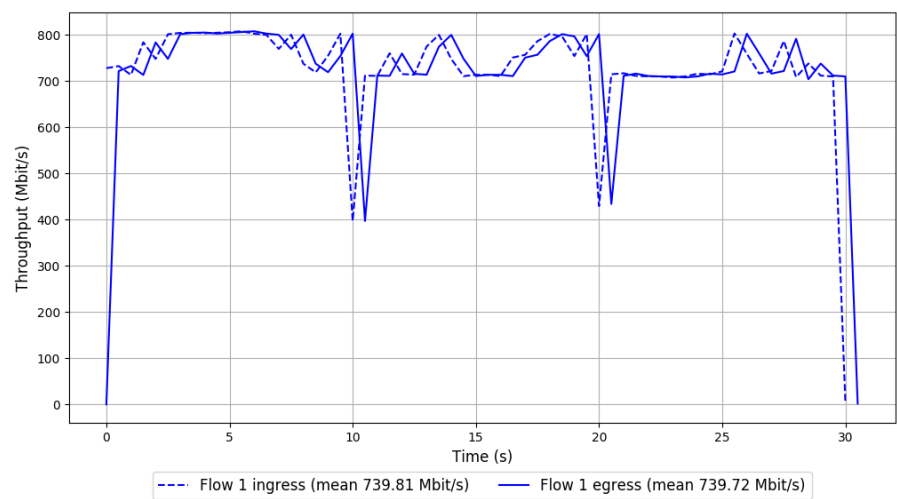
-- Flow 1:

Average throughput: 739.72 Mbit/s

95th percentile per-packet one-way delay: 4.754 ms

Loss rate: 0.02%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-03-27 07:41:57

End at: 2019-03-27 07:42:27

Local clock offset: -5.331 ms

Remote clock offset: 3.717 ms

Below is generated by plot.py at 2019-03-27 09:15:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 758.64 Mbit/s

95th percentile per-packet one-way delay: 4.495 ms

Loss rate: 0.02%

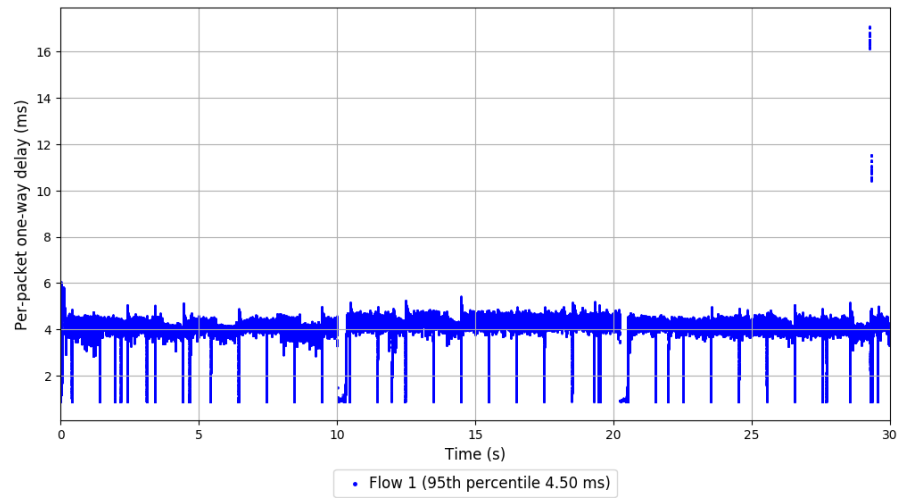
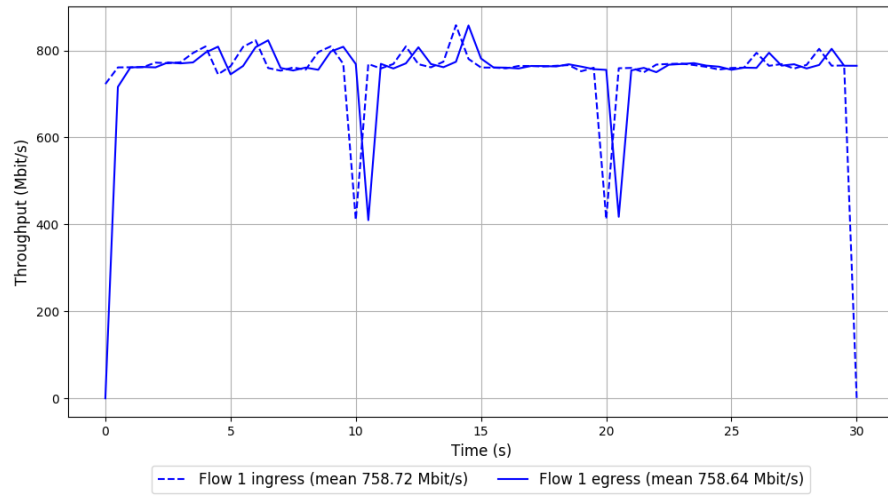
-- Flow 1:

Average throughput: 758.64 Mbit/s

95th percentile per-packet one-way delay: 4.495 ms

Loss rate: 0.02%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-03-27 08:11:47

End at: 2019-03-27 08:12:17

Local clock offset: 5.428 ms

Remote clock offset: 2.291 ms

Below is generated by plot.py at 2019-03-27 09:15:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 716.09 Mbit/s

95th percentile per-packet one-way delay: 4.355 ms

Loss rate: 0.02%

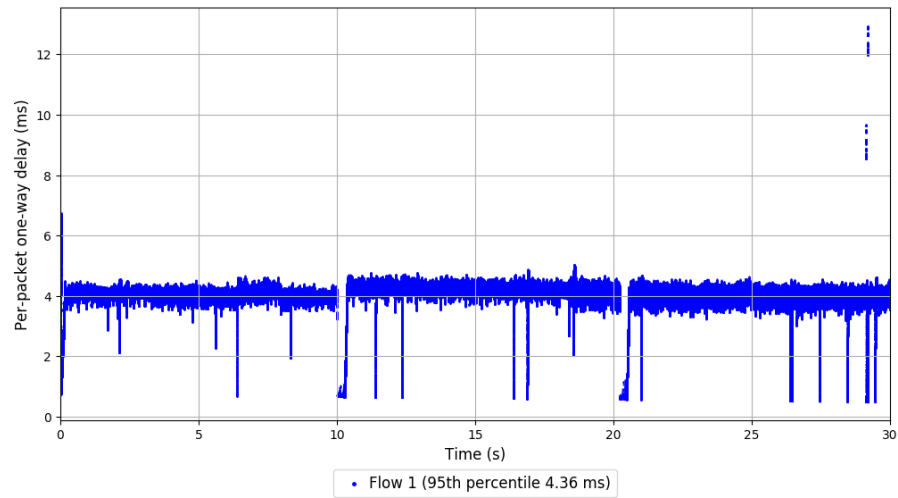
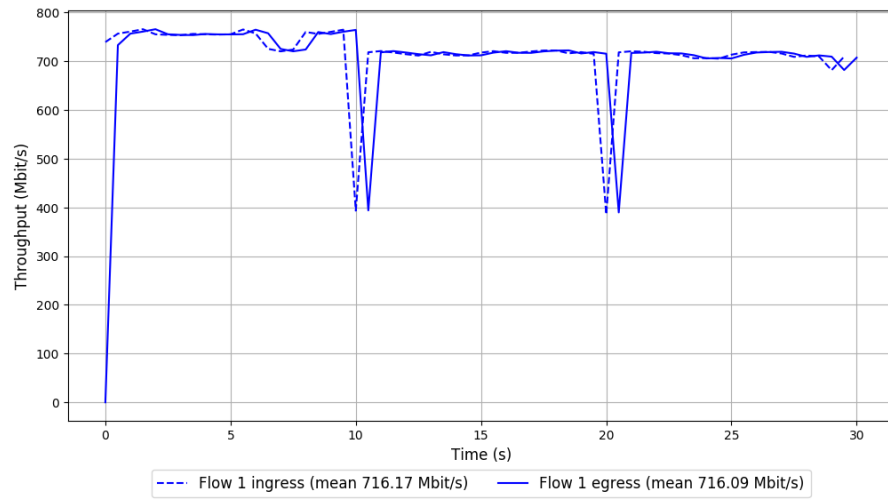
-- Flow 1:

Average throughput: 716.09 Mbit/s

95th percentile per-packet one-way delay: 4.355 ms

Loss rate: 0.02%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-03-27 08:41:39

End at: 2019-03-27 08:42:09

Local clock offset: 9.212 ms

Remote clock offset: -1.861 ms

Below is generated by plot.py at 2019-03-27 09:15:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 742.76 Mbit/s

95th percentile per-packet one-way delay: 4.744 ms

Loss rate: 0.02%

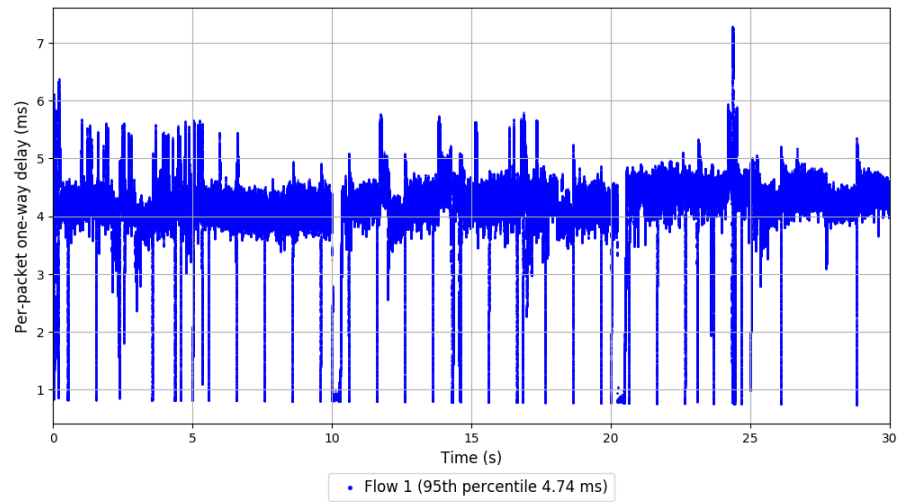
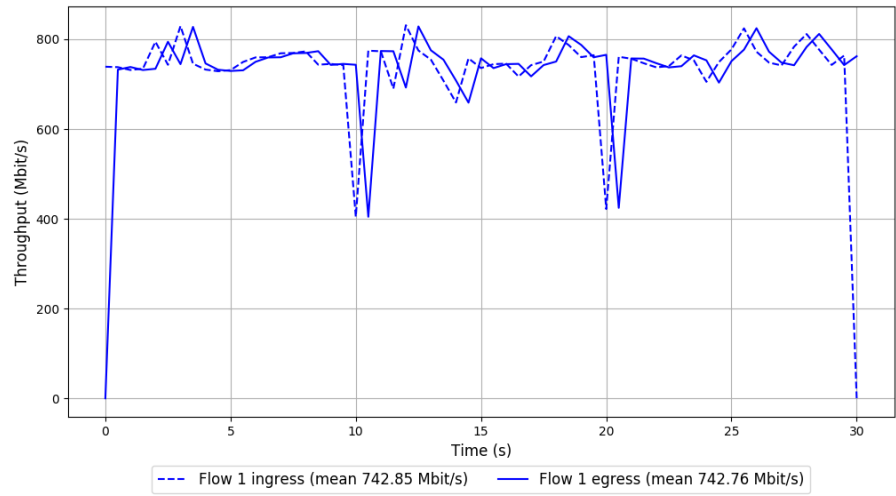
-- Flow 1:

Average throughput: 742.76 Mbit/s

95th percentile per-packet one-way delay: 4.744 ms

Loss rate: 0.02%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-03-27 06:40:56

End at: 2019-03-27 06:41:26

Local clock offset: -0.349 ms

Remote clock offset: 0.759 ms

Below is generated by plot.py at 2019-03-27 09:15:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 396.49 Mbit/s

95th percentile per-packet one-way delay: 1.078 ms

Loss rate: 0.01%

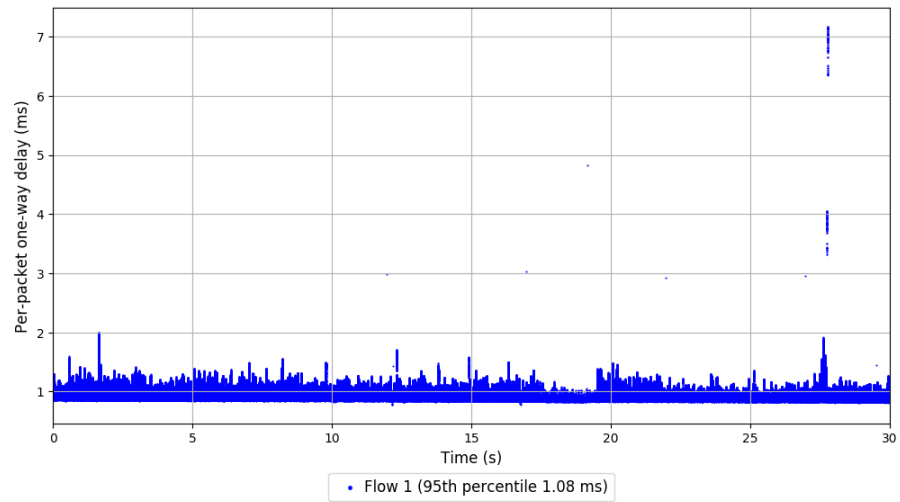
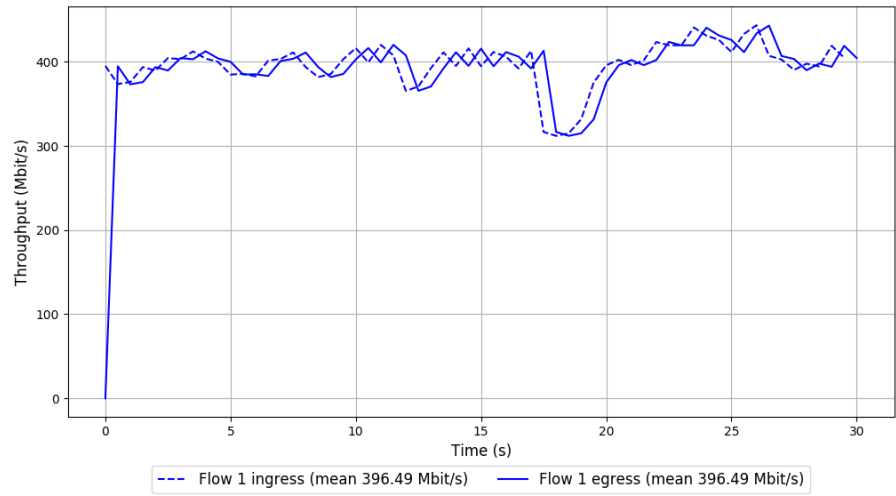
-- Flow 1:

Average throughput: 396.49 Mbit/s

95th percentile per-packet one-way delay: 1.078 ms

Loss rate: 0.01%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-03-27 07:10:27

End at: 2019-03-27 07:10:57

Local clock offset: -3.651 ms

Remote clock offset: 2.606 ms

Below is generated by plot.py at 2019-03-27 09:15:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 351.76 Mbit/s

95th percentile per-packet one-way delay: 1.134 ms

Loss rate: 0.01%

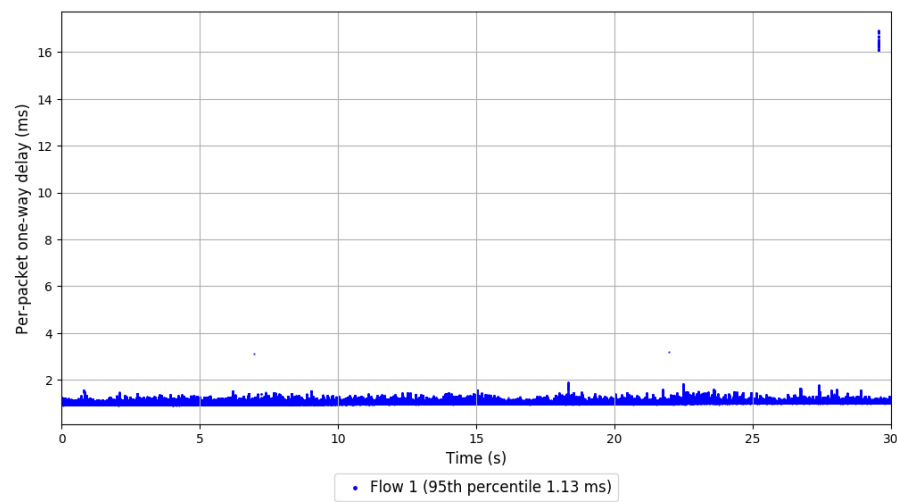
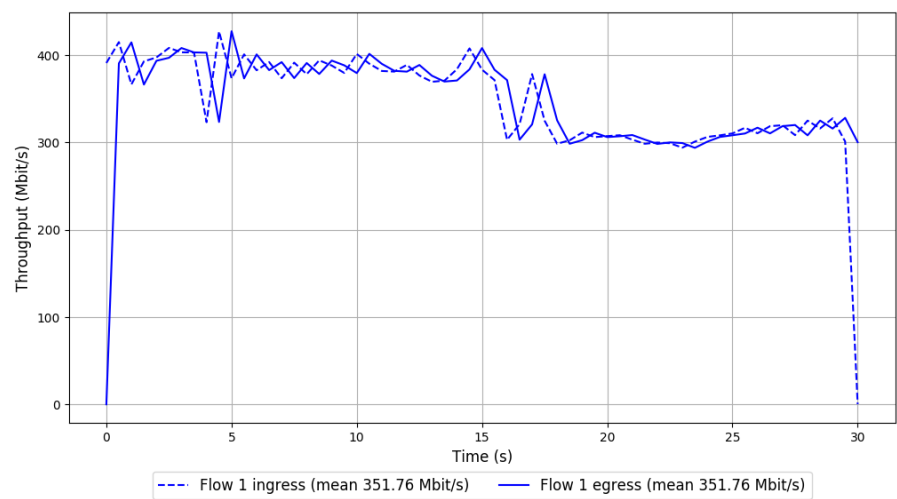
-- Flow 1:

Average throughput: 351.76 Mbit/s

95th percentile per-packet one-way delay: 1.134 ms

Loss rate: 0.01%

Run 2: Report of Copa — Data Link

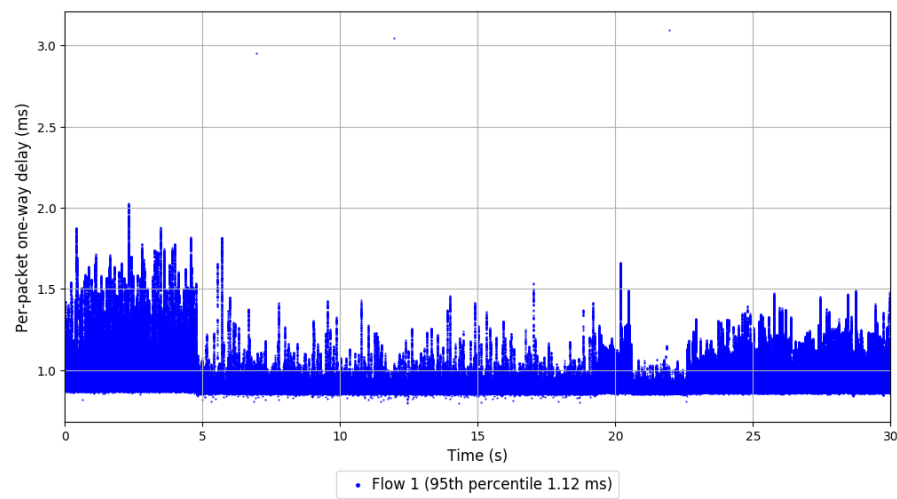
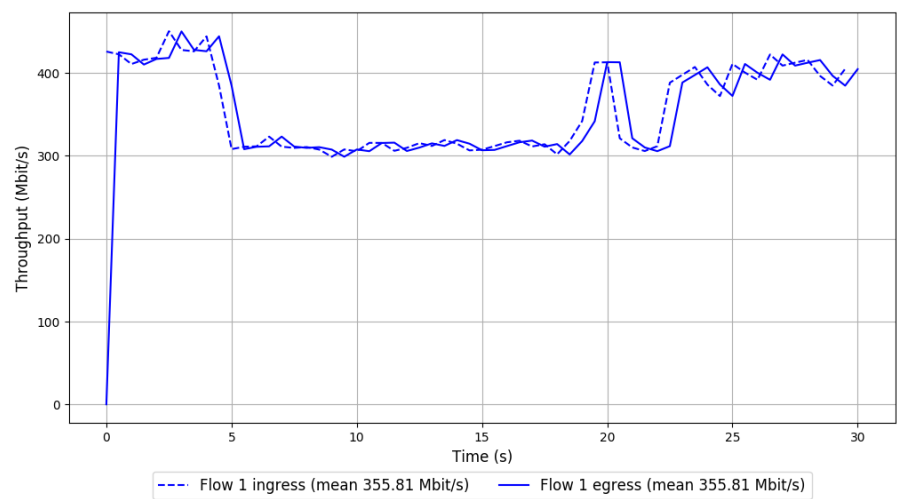


Run 3: Statistics of Copa

Start at: 2019-03-27 07:40:23
End at: 2019-03-27 07:40:53
Local clock offset: -5.259 ms
Remote clock offset: 3.818 ms

Below is generated by plot.py at 2019-03-27 09:15:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 355.81 Mbit/s
95th percentile per-packet one-way delay: 1.120 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 355.81 Mbit/s
95th percentile per-packet one-way delay: 1.120 ms
Loss rate: 0.01%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-03-27 08:10:11

End at: 2019-03-27 08:10:41

Local clock offset: 5.138 ms

Remote clock offset: 2.814 ms

Below is generated by plot.py at 2019-03-27 09:22:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 384.48 Mbit/s

95th percentile per-packet one-way delay: 1.052 ms

Loss rate: 0.00%

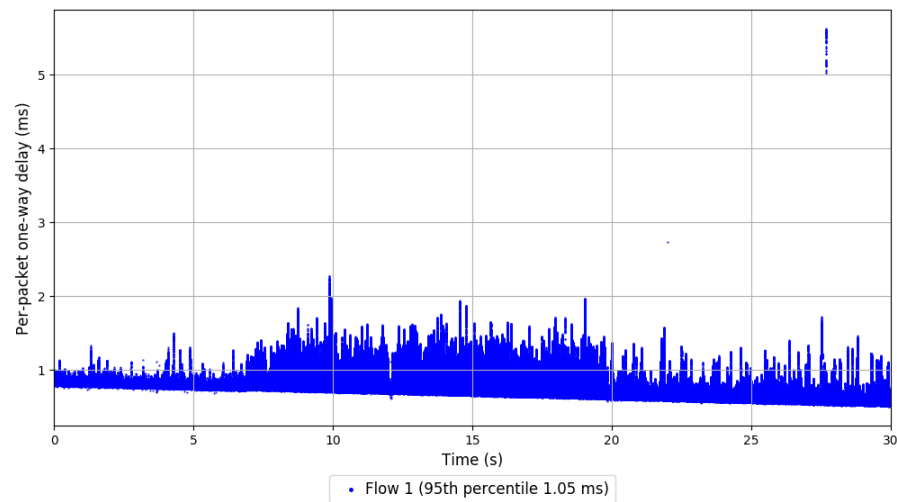
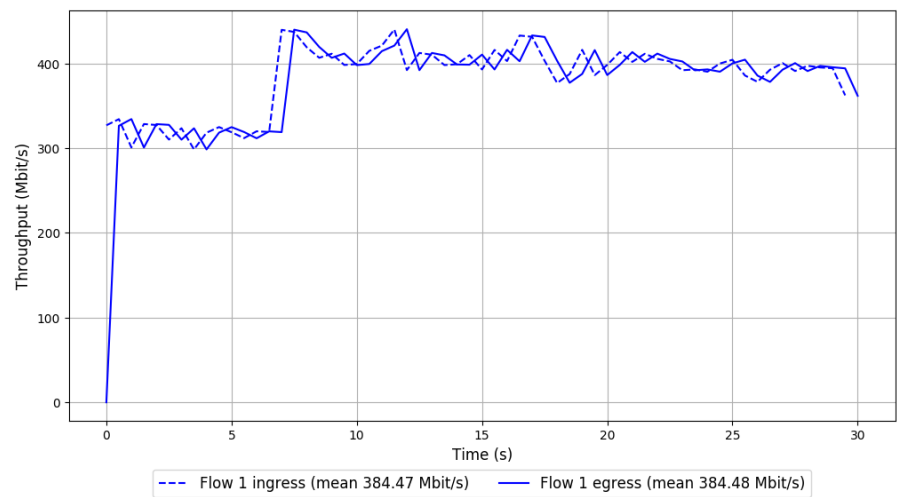
-- Flow 1:

Average throughput: 384.48 Mbit/s

95th percentile per-packet one-way delay: 1.052 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link

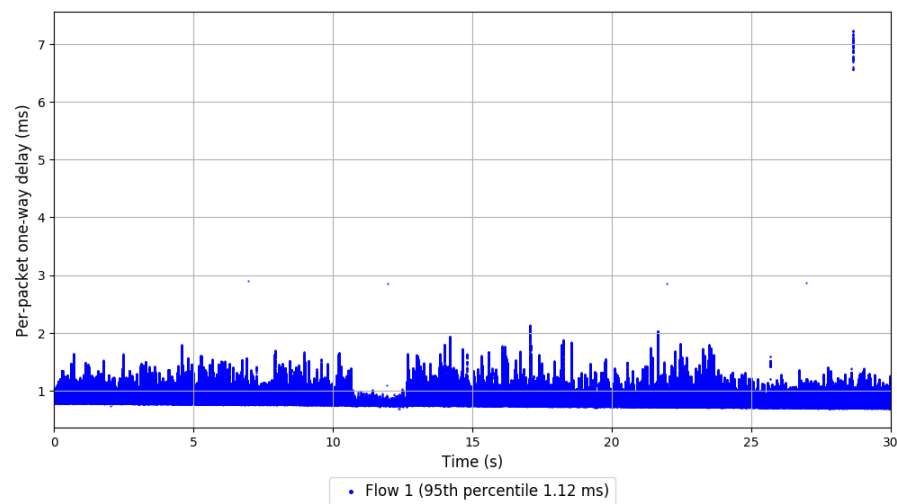
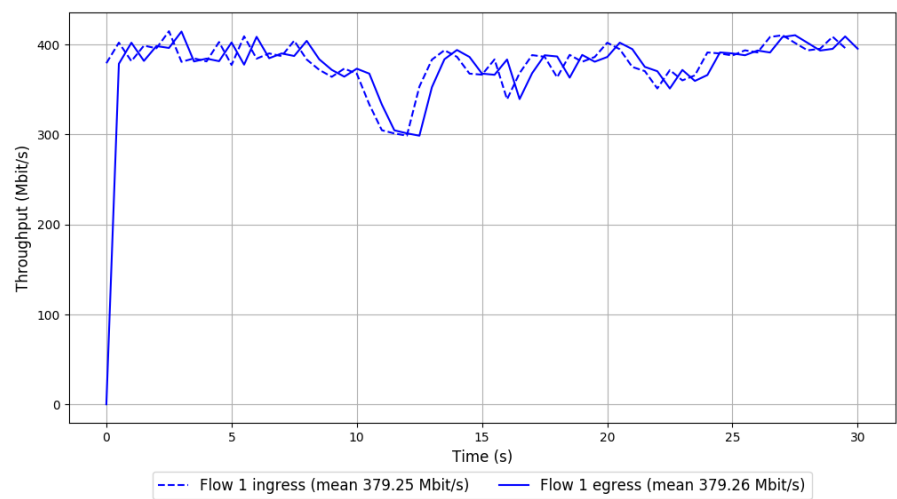


Run 5: Statistics of Copa

Start at: 2019-03-27 08:40:02
End at: 2019-03-27 08:40:32
Local clock offset: 9.016 ms
Remote clock offset: -1.737 ms

Below is generated by plot.py at 2019-03-27 09:22:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 379.26 Mbit/s
95th percentile per-packet one-way delay: 1.120 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 379.26 Mbit/s
95th percentile per-packet one-way delay: 1.120 ms
Loss rate: 0.01%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-03-27 06:49:20

End at: 2019-03-27 06:49:50

Local clock offset: -1.216 ms

Remote clock offset: 0.211 ms

Below is generated by plot.py at 2019-03-27 09:23:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 779.03 Mbit/s

95th percentile per-packet one-way delay: 15.296 ms

Loss rate: 0.03%

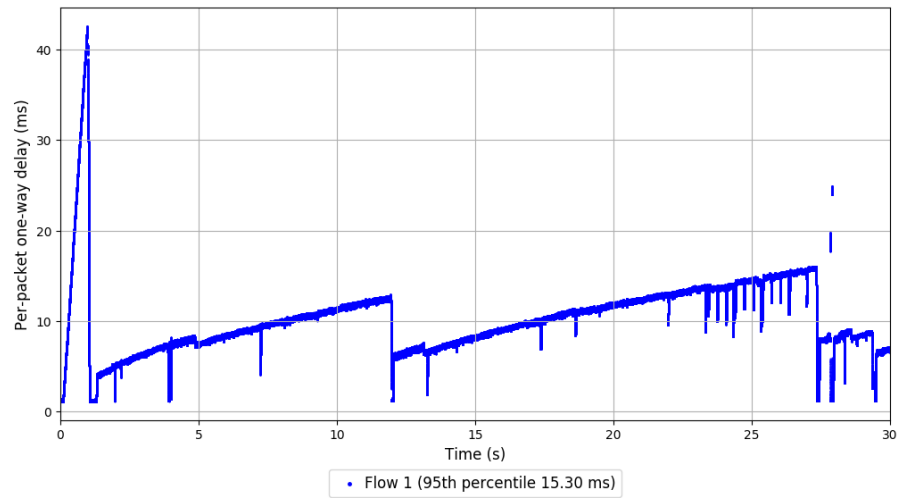
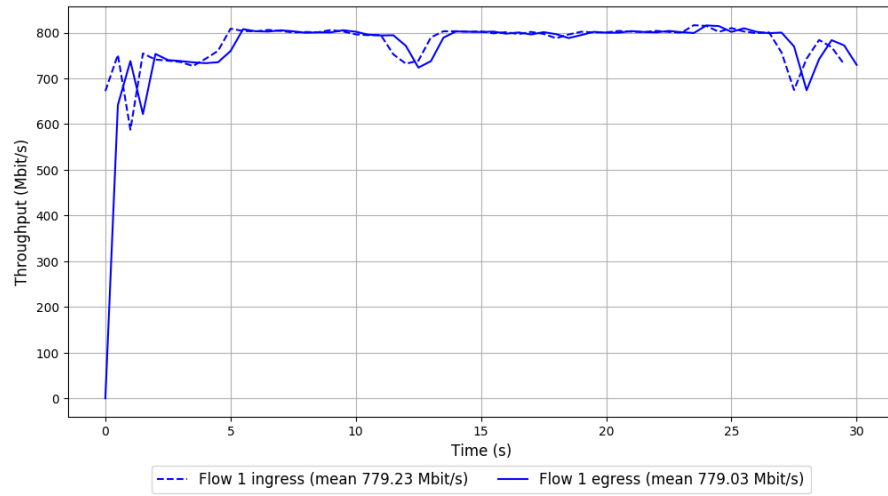
-- Flow 1:

Average throughput: 779.03 Mbit/s

95th percentile per-packet one-way delay: 15.296 ms

Loss rate: 0.03%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-03-27 07:18:48

End at: 2019-03-27 07:19:18

Local clock offset: -4.148 ms

Remote clock offset: 3.431 ms

Below is generated by plot.py at 2019-03-27 09:23:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 790.28 Mbit/s

95th percentile per-packet one-way delay: 22.331 ms

Loss rate: 0.10%

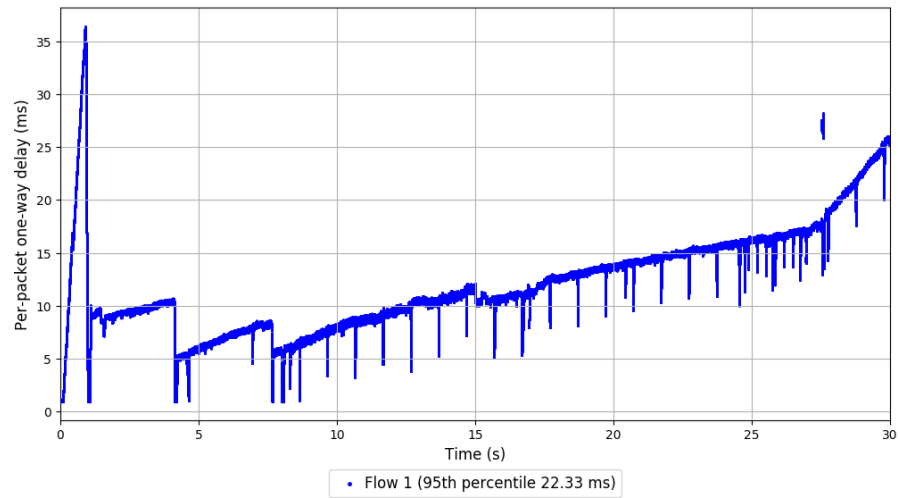
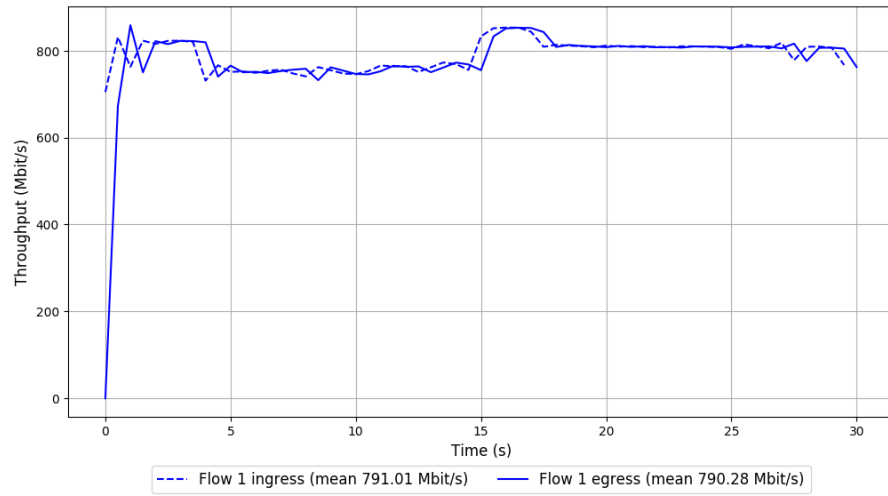
-- Flow 1:

Average throughput: 790.28 Mbit/s

95th percentile per-packet one-way delay: 22.331 ms

Loss rate: 0.10%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-03-27 07:48:45

End at: 2019-03-27 07:49:15

Local clock offset: -2.952 ms

Remote clock offset: 3.448 ms

Below is generated by plot.py at 2019-03-27 09:24:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 808.85 Mbit/s

95th percentile per-packet one-way delay: 11.783 ms

Loss rate: 0.05%

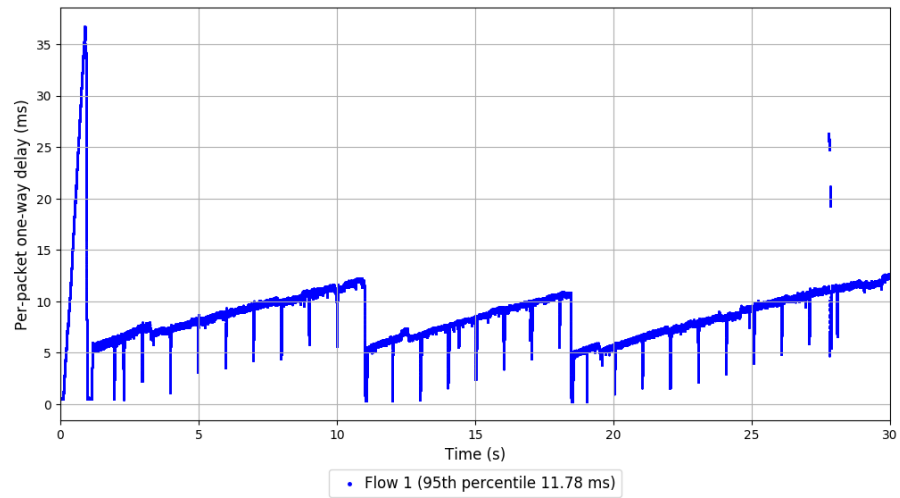
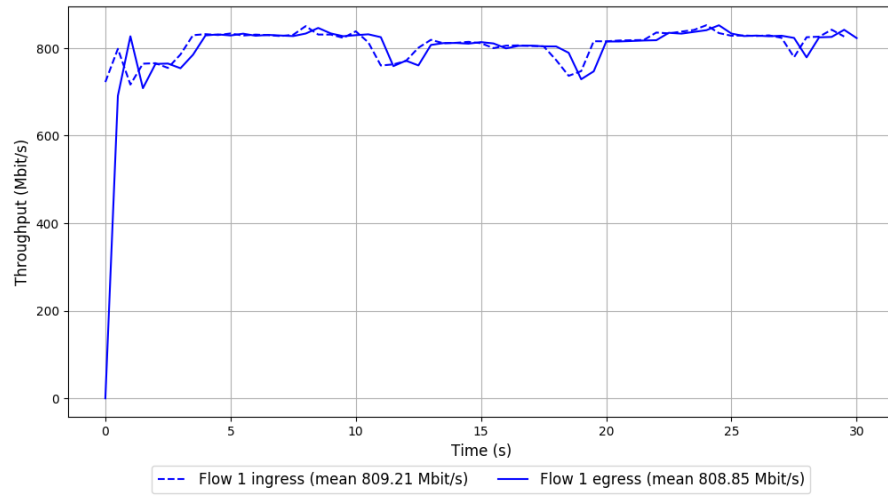
-- Flow 1:

Average throughput: 808.85 Mbit/s

95th percentile per-packet one-way delay: 11.783 ms

Loss rate: 0.05%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-03-27 08:18:32

End at: 2019-03-27 08:19:02

Local clock offset: 6.402 ms

Remote clock offset: 0.522 ms

Below is generated by plot.py at 2019-03-27 09:24:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 724.30 Mbit/s

95th percentile per-packet one-way delay: 15.383 ms

Loss rate: 0.06%

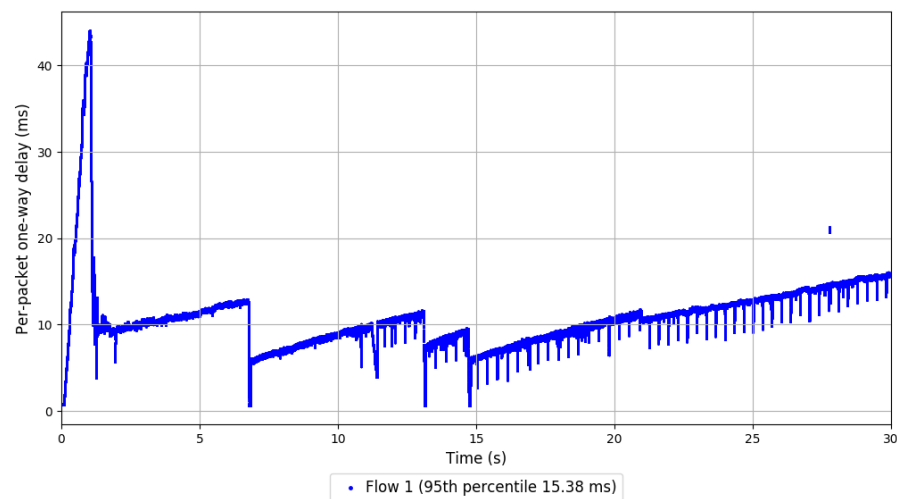
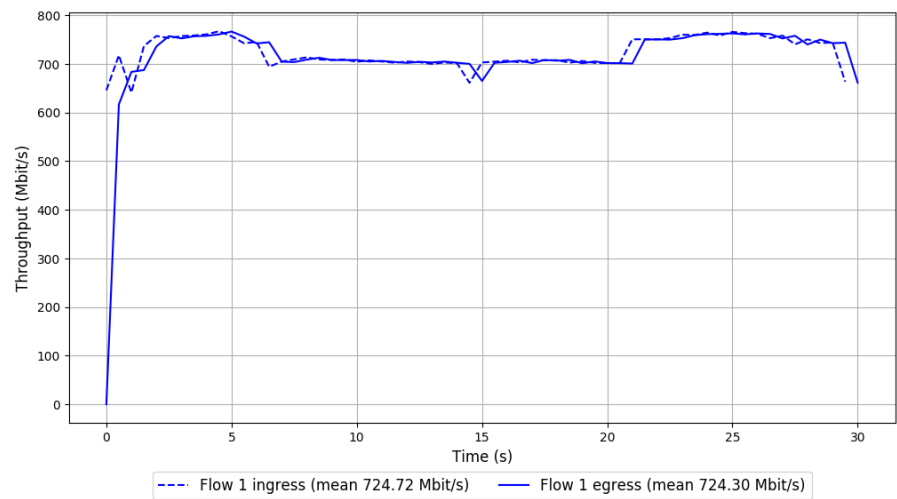
-- Flow 1:

Average throughput: 724.30 Mbit/s

95th percentile per-packet one-way delay: 15.383 ms

Loss rate: 0.06%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-03-27 08:48:26

End at: 2019-03-27 08:48:56

Local clock offset: 6.541 ms

Remote clock offset: 0.323 ms

Below is generated by plot.py at 2019-03-27 09:24:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 745.21 Mbit/s

95th percentile per-packet one-way delay: 12.312 ms

Loss rate: 0.04%

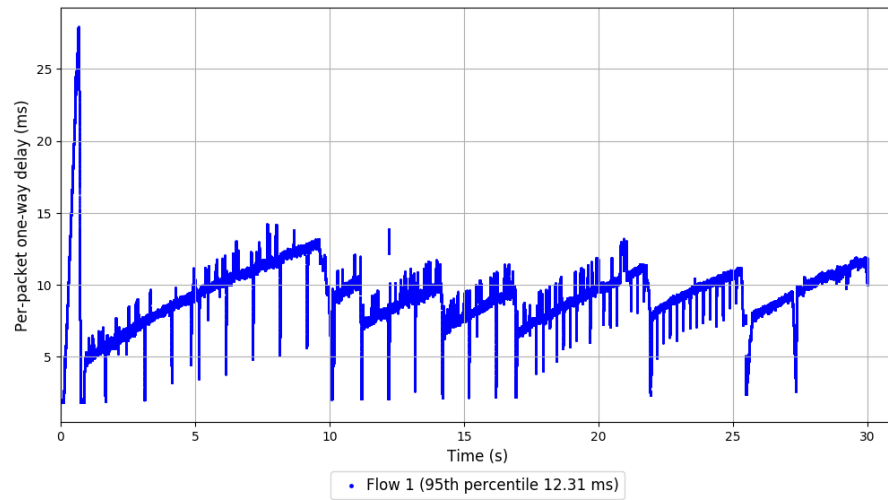
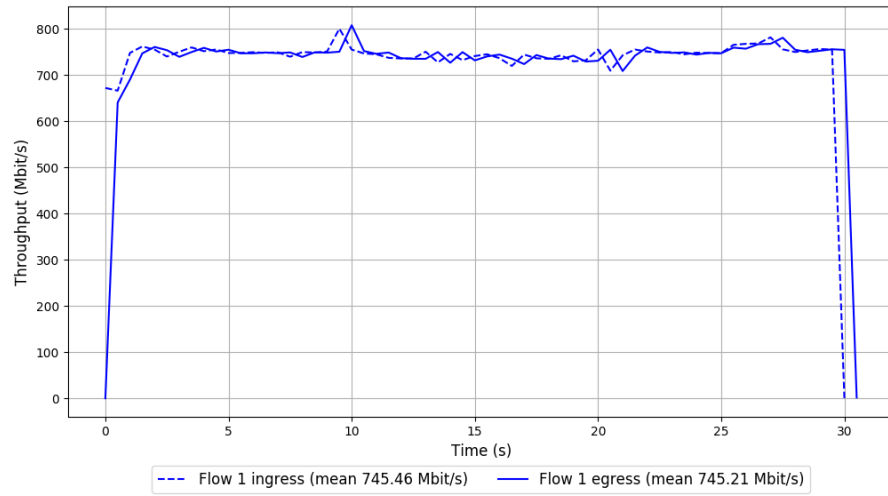
-- Flow 1:

Average throughput: 745.21 Mbit/s

95th percentile per-packet one-way delay: 12.312 ms

Loss rate: 0.04%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-03-27 06:53:48

End at: 2019-03-27 06:54:18

Local clock offset: -2.082 ms

Remote clock offset: 0.218 ms

Below is generated by plot.py at 2019-03-27 09:27:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 938.76 Mbit/s

95th percentile per-packet one-way delay: 9.678 ms

Loss rate: 0.01%

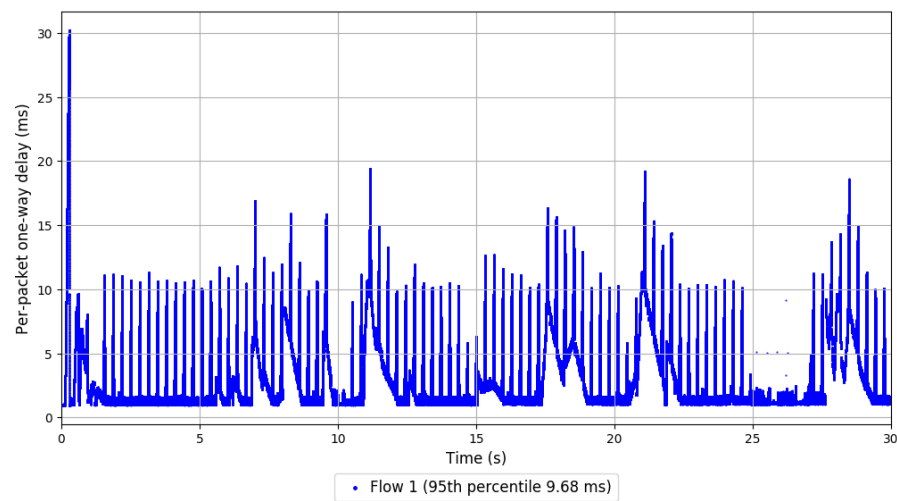
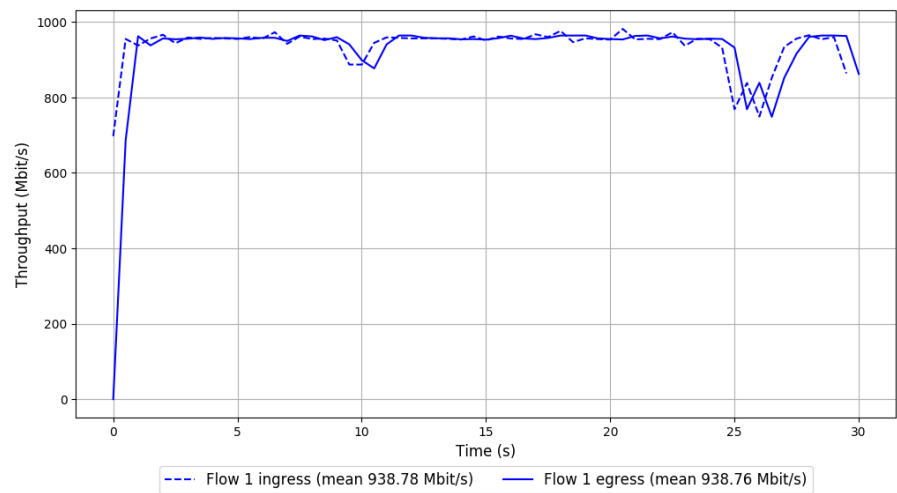
-- Flow 1:

Average throughput: 938.76 Mbit/s

95th percentile per-packet one-way delay: 9.678 ms

Loss rate: 0.01%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-03-27 07:23:20

End at: 2019-03-27 07:23:50

Local clock offset: -4.39 ms

Remote clock offset: 3.838 ms

Below is generated by plot.py at 2019-03-27 09:35:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 902.53 Mbit/s

95th percentile per-packet one-way delay: 31.071 ms

Loss rate: 0.13%

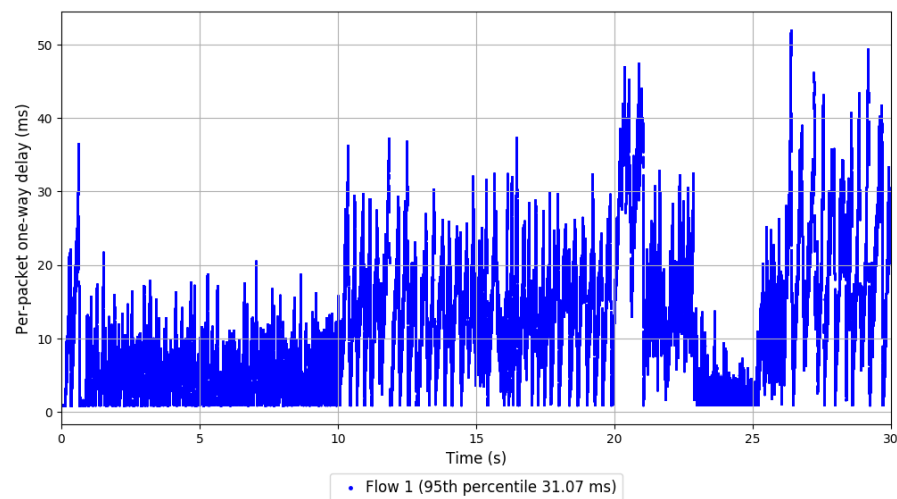
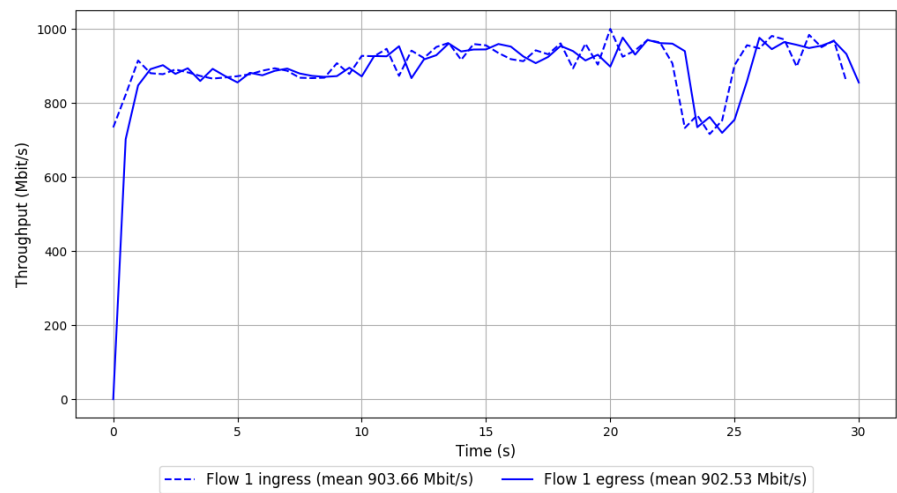
-- Flow 1:

Average throughput: 902.53 Mbit/s

95th percentile per-packet one-way delay: 31.071 ms

Loss rate: 0.13%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-03-27 07:53:13

End at: 2019-03-27 07:53:43

Local clock offset: 0.087 ms

Remote clock offset: 3.422 ms

Below is generated by plot.py at 2019-03-27 09:35:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 839.62 Mbit/s

95th percentile per-packet one-way delay: 44.068 ms

Loss rate: 2.06%

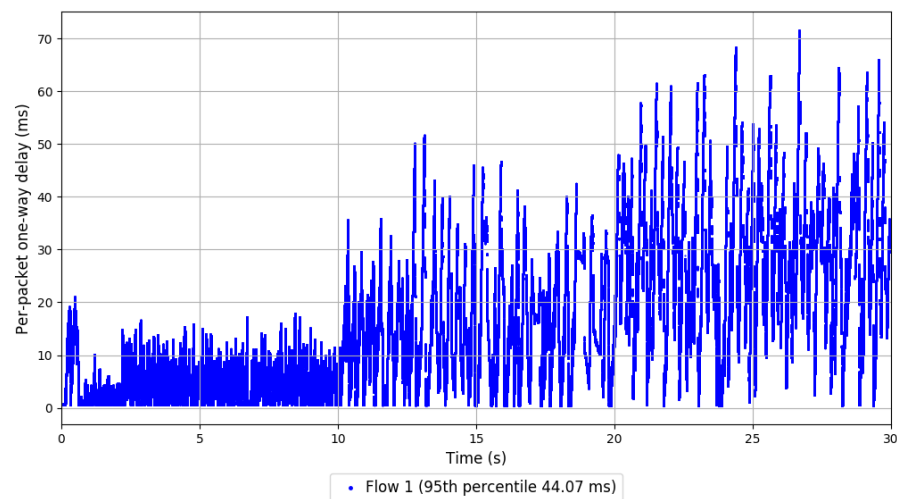
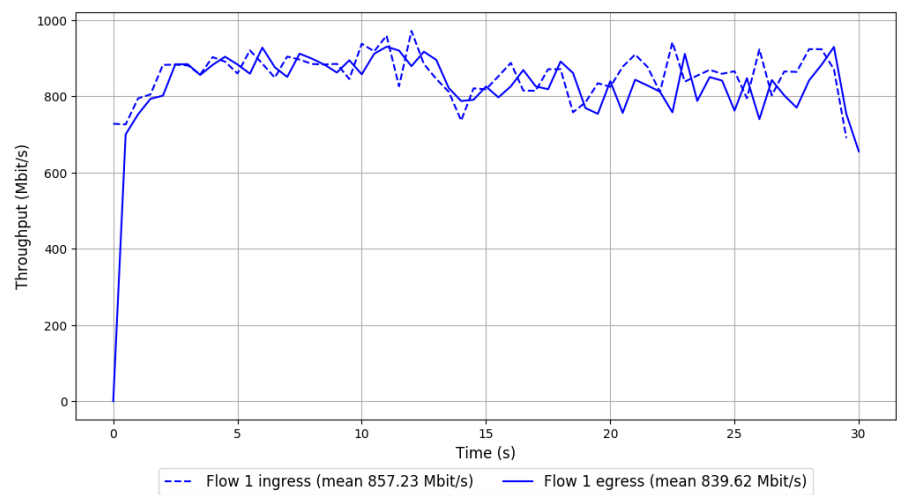
-- Flow 1:

Average throughput: 839.62 Mbit/s

95th percentile per-packet one-way delay: 44.068 ms

Loss rate: 2.06%

Run 3: Report of FillP — Data Link

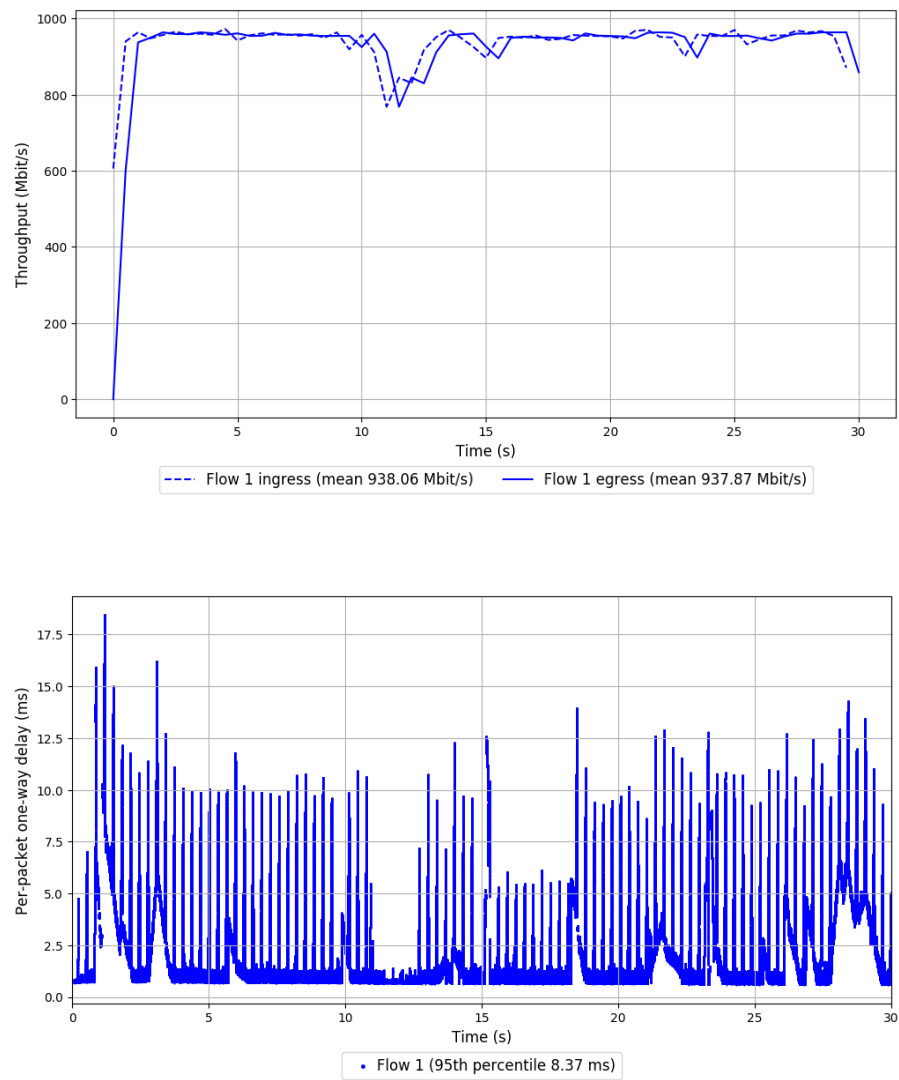


Run 4: Statistics of FillP

Start at: 2019-03-27 08:23:02
End at: 2019-03-27 08:23:32
Local clock offset: 7.001 ms
Remote clock offset: -0.189 ms

Below is generated by plot.py at 2019-03-27 09:35:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 937.87 Mbit/s
95th percentile per-packet one-way delay: 8.370 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 937.87 Mbit/s
95th percentile per-packet one-way delay: 8.370 ms
Loss rate: 0.03%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-03-27 08:52:53

End at: 2019-03-27 08:53:23

Local clock offset: 2.099 ms

Remote clock offset: 1.396 ms

Below is generated by plot.py at 2019-03-27 09:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 941.62 Mbit/s

95th percentile per-packet one-way delay: 9.376 ms

Loss rate: 0.01%

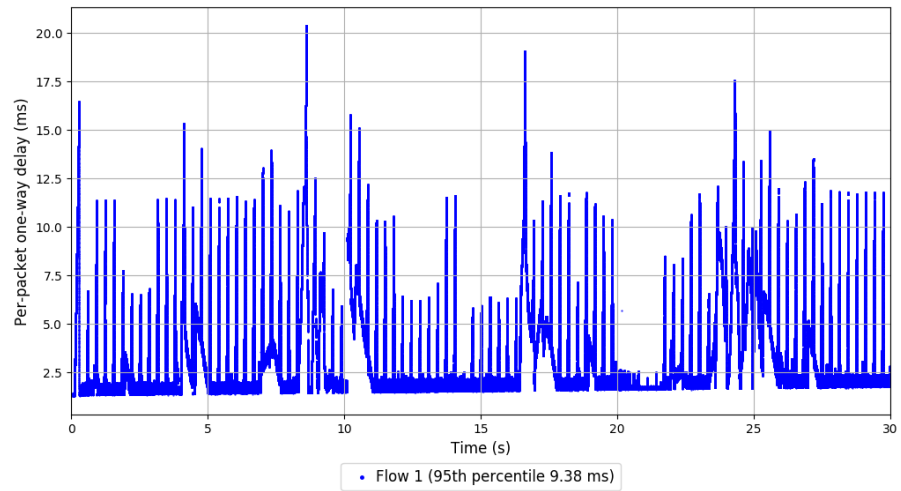
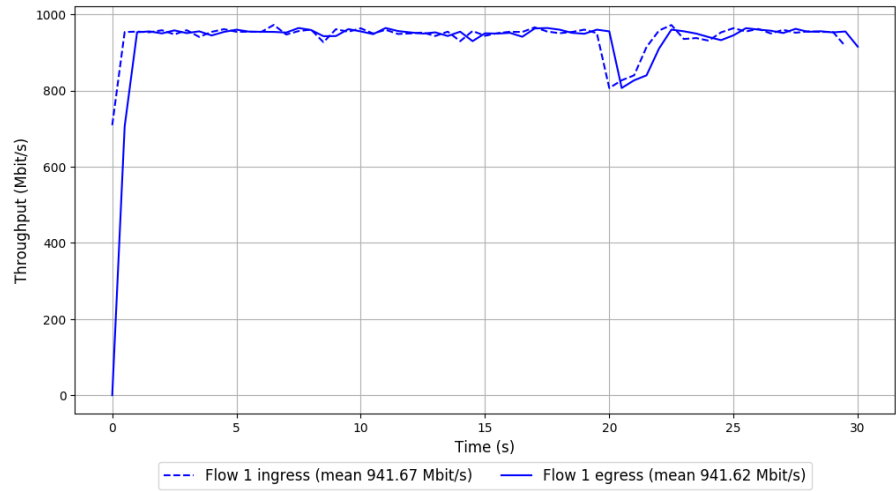
-- Flow 1:

Average throughput: 941.62 Mbit/s

95th percentile per-packet one-way delay: 9.376 ms

Loss rate: 0.01%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-03-27 06:36:34

End at: 2019-03-27 06:37:04

Local clock offset: -0.285 ms

Remote clock offset: 1.187 ms

Below is generated by plot.py at 2019-03-27 09:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 927.64 Mbit/s

95th percentile per-packet one-way delay: 5.012 ms

Loss rate: 0.02%

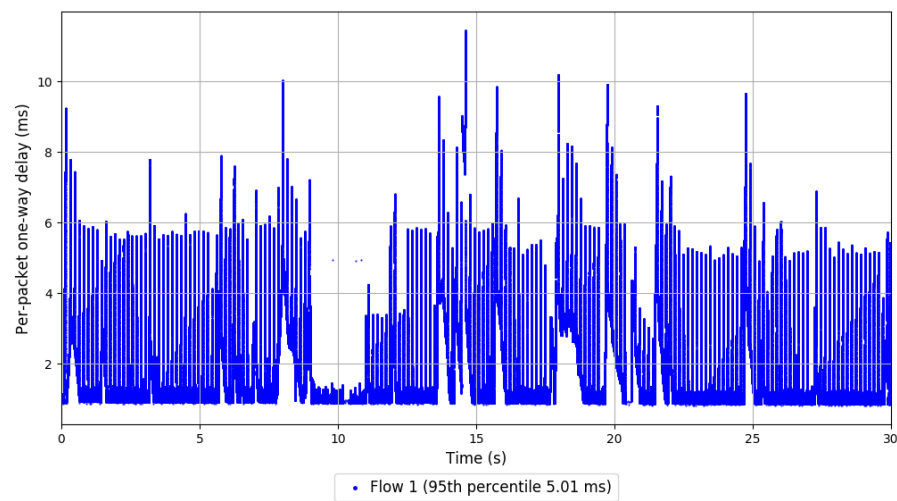
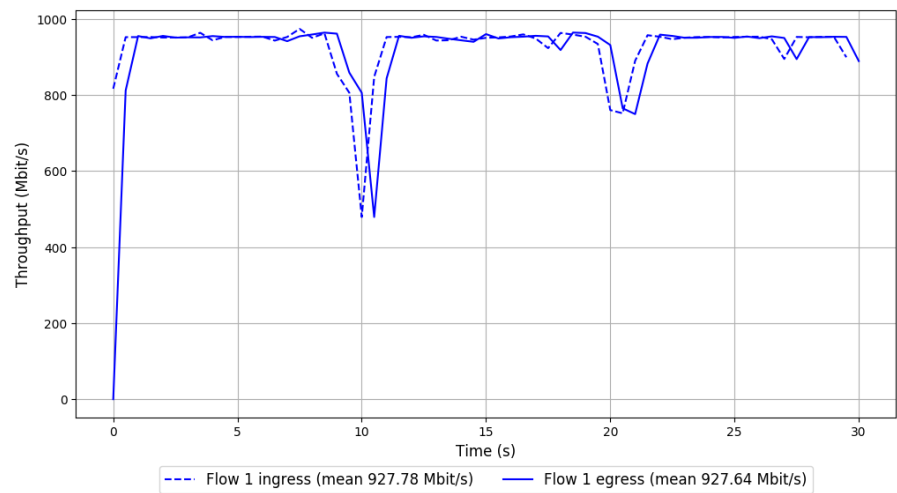
-- Flow 1:

Average throughput: 927.64 Mbit/s

95th percentile per-packet one-way delay: 5.012 ms

Loss rate: 0.02%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-03-27 07:06:06

End at: 2019-03-27 07:06:36

Local clock offset: -3.375 ms

Remote clock offset: 1.824 ms

Below is generated by plot.py at 2019-03-27 09:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 933.67 Mbit/s

95th percentile per-packet one-way delay: 7.077 ms

Loss rate: 0.01%

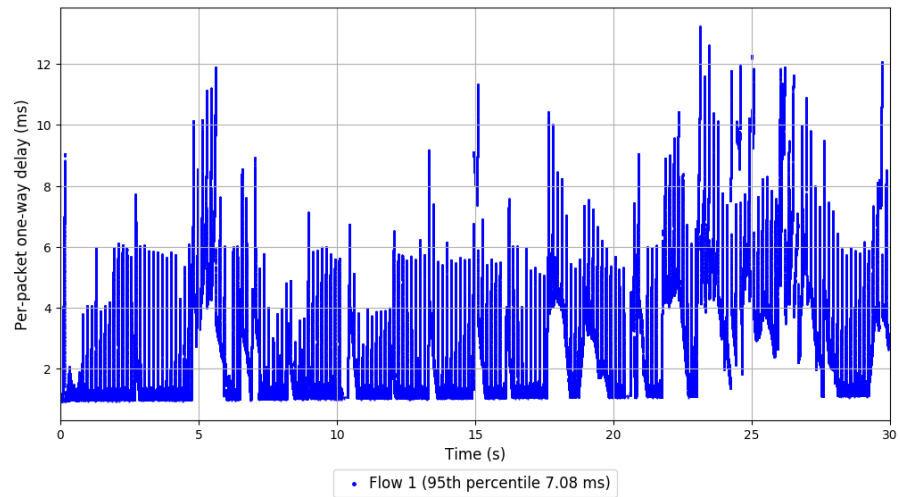
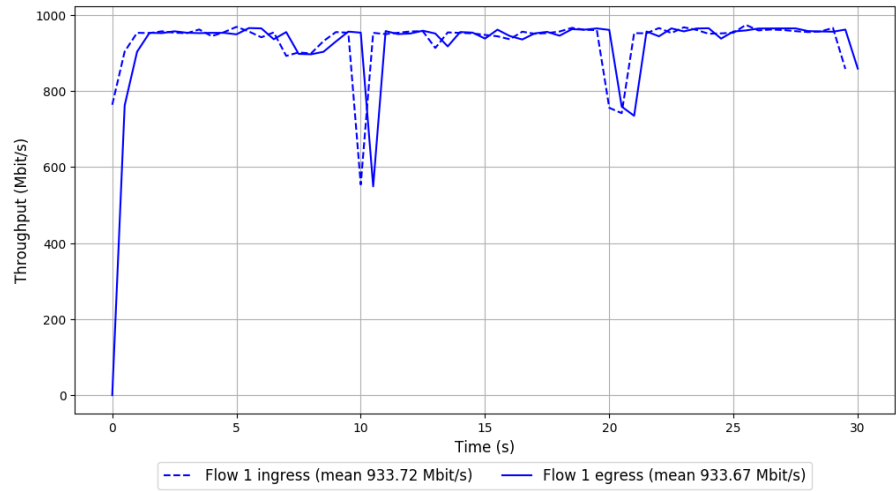
-- Flow 1:

Average throughput: 933.67 Mbit/s

95th percentile per-packet one-way delay: 7.077 ms

Loss rate: 0.01%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-03-27 07:35:57

End at: 2019-03-27 07:36:27

Local clock offset: -5.02 ms

Remote clock offset: 4.246 ms

Below is generated by plot.py at 2019-03-27 09:36:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 926.34 Mbit/s

95th percentile per-packet one-way delay: 4.594 ms

Loss rate: 0.01%

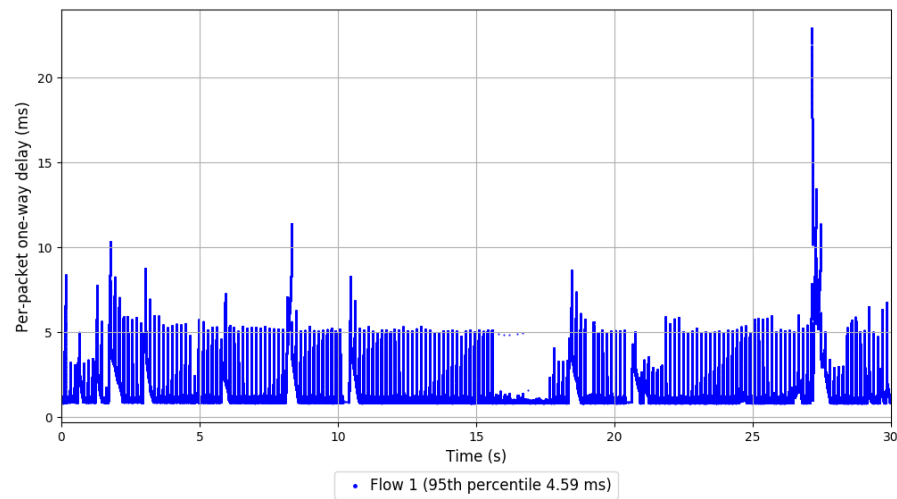
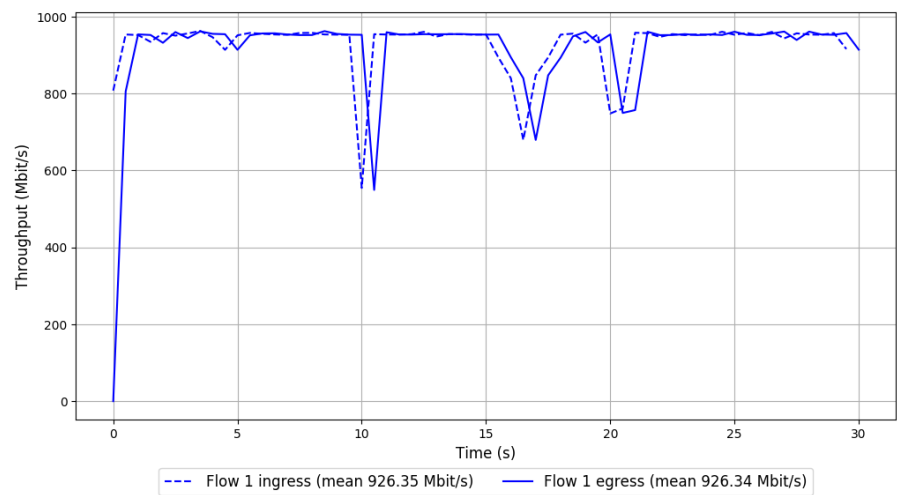
-- Flow 1:

Average throughput: 926.34 Mbit/s

95th percentile per-packet one-way delay: 4.594 ms

Loss rate: 0.01%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-03-27 08:05:50

End at: 2019-03-27 08:06:20

Local clock offset: 4.344 ms

Remote clock offset: 3.587 ms

Below is generated by plot.py at 2019-03-27 09:42:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 932.36 Mbit/s

95th percentile per-packet one-way delay: 5.373 ms

Loss rate: 0.01%

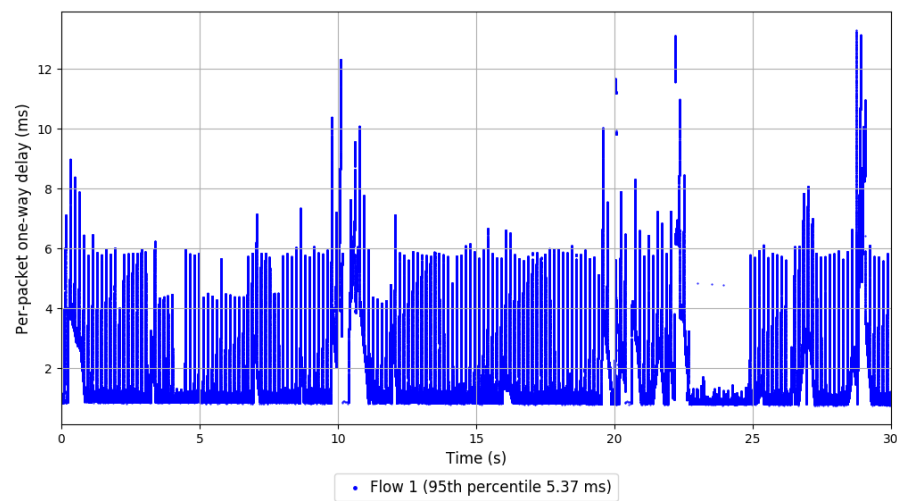
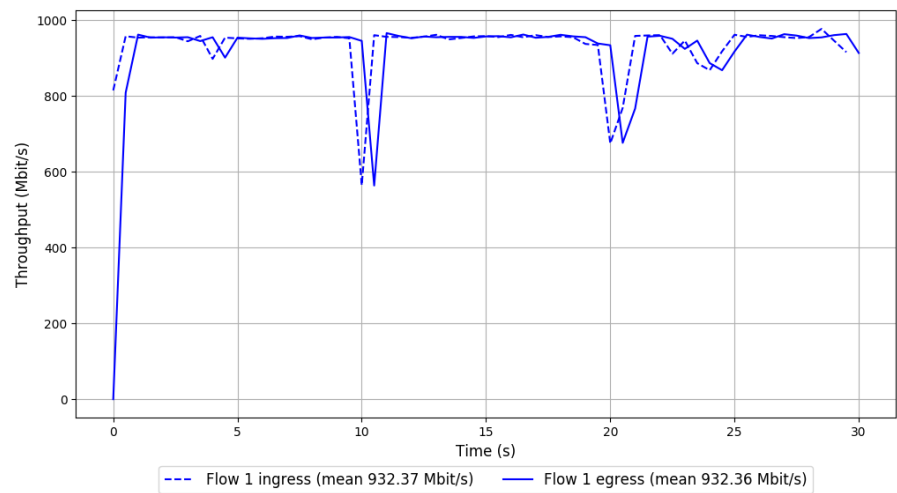
-- Flow 1:

Average throughput: 932.36 Mbit/s

95th percentile per-packet one-way delay: 5.373 ms

Loss rate: 0.01%

Run 4: Report of FillP-Sheep — Data Link

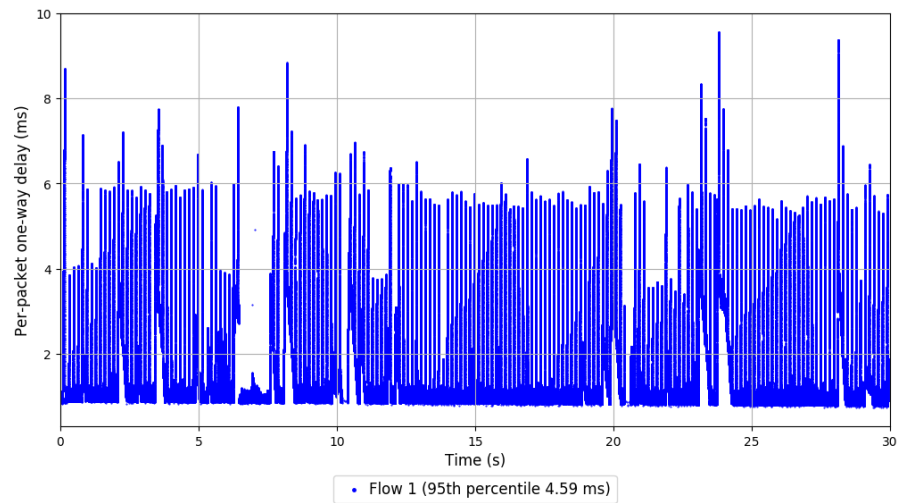
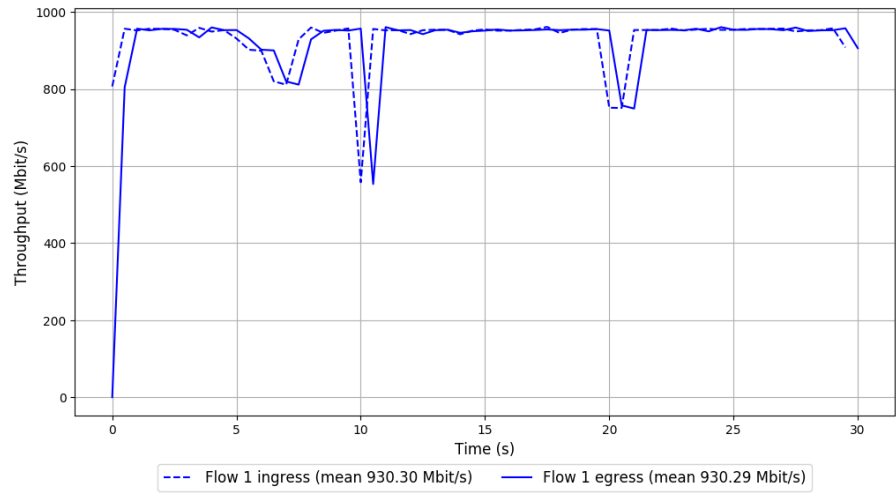


Run 5: Statistics of FillP-Sheep

Start at: 2019-03-27 08:35:38
End at: 2019-03-27 08:36:08
Local clock offset: 8.527 ms
Remote clock offset: -1.518 ms

Below is generated by plot.py at 2019-03-27 09:47:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 930.29 Mbit/s
95th percentile per-packet one-way delay: 4.591 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 930.29 Mbit/s
95th percentile per-packet one-way delay: 4.591 ms
Loss rate: 0.01%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-03-27 06:32:23

End at: 2019-03-27 06:32:53

Local clock offset: -0.238 ms

Remote clock offset: 2.184 ms

Below is generated by plot.py at 2019-03-27 09:47:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.35 Mbit/s

95th percentile per-packet one-way delay: 0.798 ms

Loss rate: 0.01%

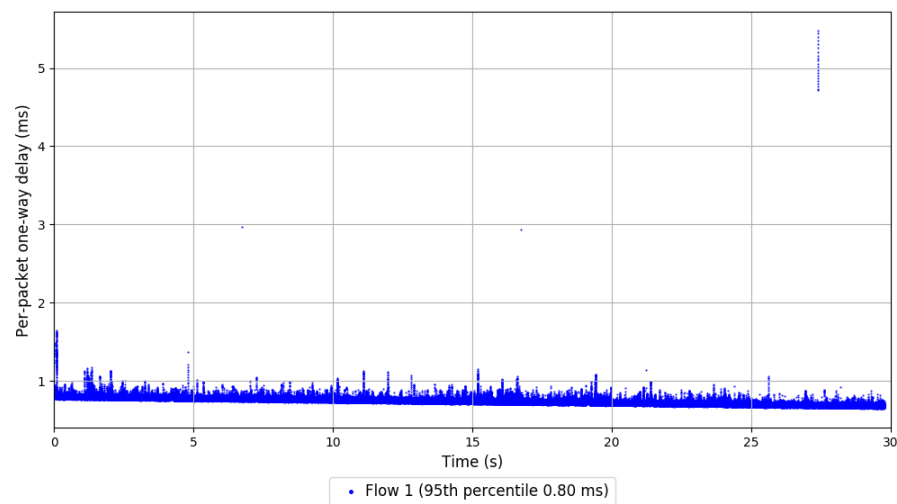
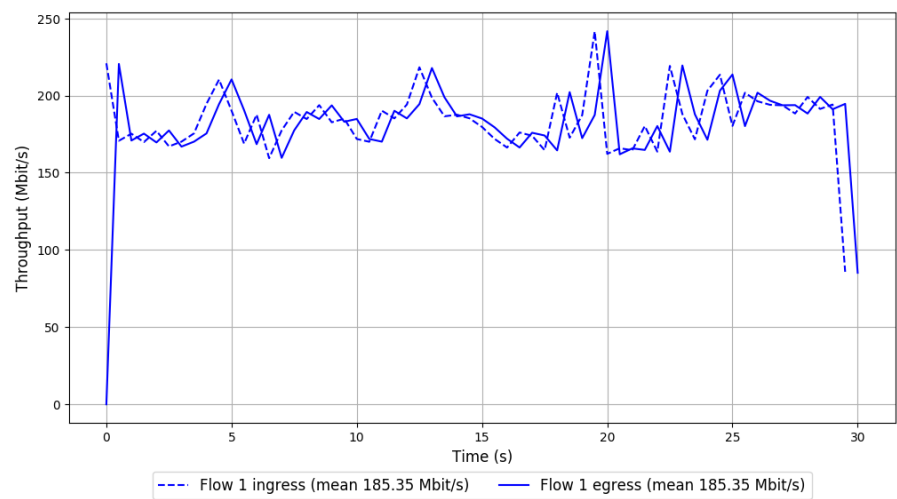
-- Flow 1:

Average throughput: 185.35 Mbit/s

95th percentile per-packet one-way delay: 0.798 ms

Loss rate: 0.01%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-03-27 07:01:55

End at: 2019-03-27 07:02:25

Local clock offset: -3.029 ms

Remote clock offset: 0.846 ms

Below is generated by plot.py at 2019-03-27 09:47:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.36 Mbit/s

95th percentile per-packet one-way delay: 1.205 ms

Loss rate: 0.00%

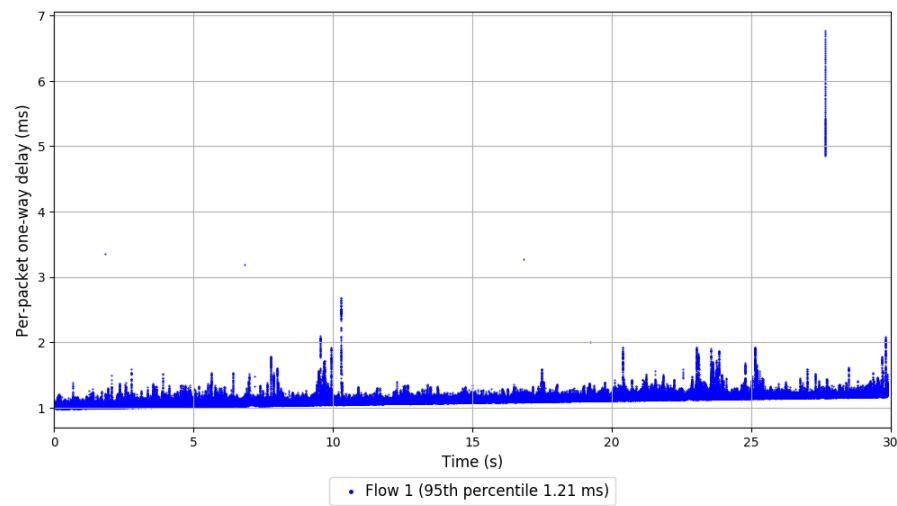
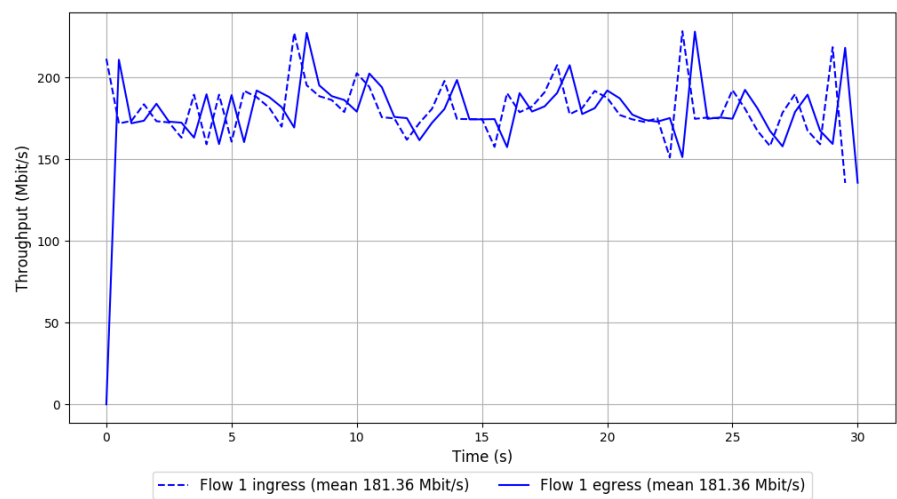
-- Flow 1:

Average throughput: 181.36 Mbit/s

95th percentile per-packet one-way delay: 1.205 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-03-27 07:31:48

End at: 2019-03-27 07:32:18

Local clock offset: -4.827 ms

Remote clock offset: 4.288 ms

Below is generated by plot.py at 2019-03-27 09:47:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.11 Mbit/s

95th percentile per-packet one-way delay: 1.104 ms

Loss rate: 0.00%

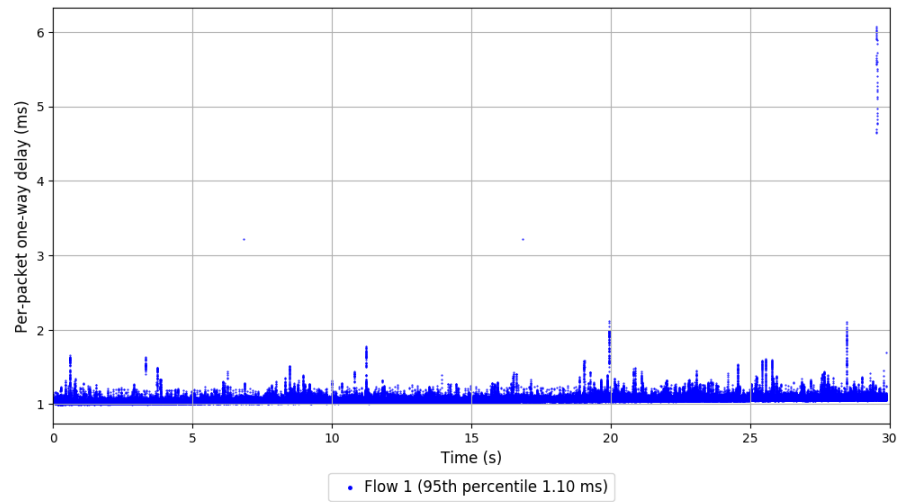
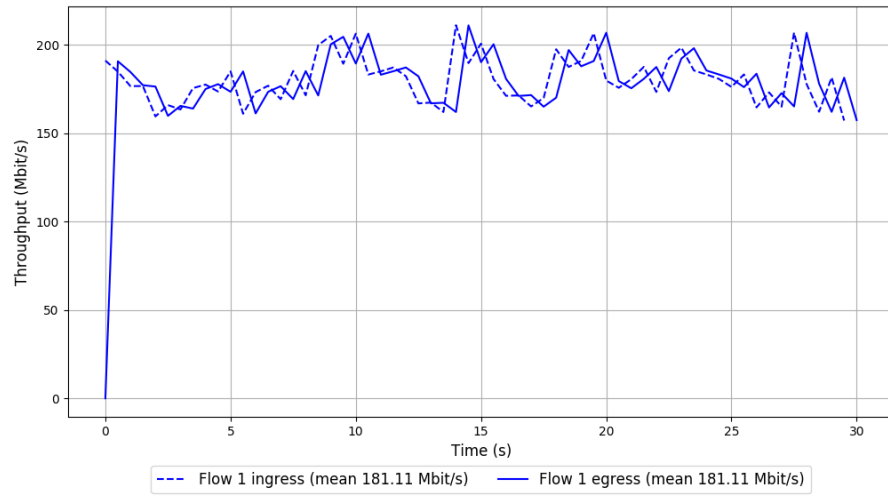
-- Flow 1:

Average throughput: 181.11 Mbit/s

95th percentile per-packet one-way delay: 1.104 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-03-27 08:01:39

End at: 2019-03-27 08:02:09

Local clock offset: 3.361 ms

Remote clock offset: 3.546 ms

Below is generated by plot.py at 2019-03-27 09:47:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.53 Mbit/s

95th percentile per-packet one-way delay: 0.850 ms

Loss rate: 0.01%

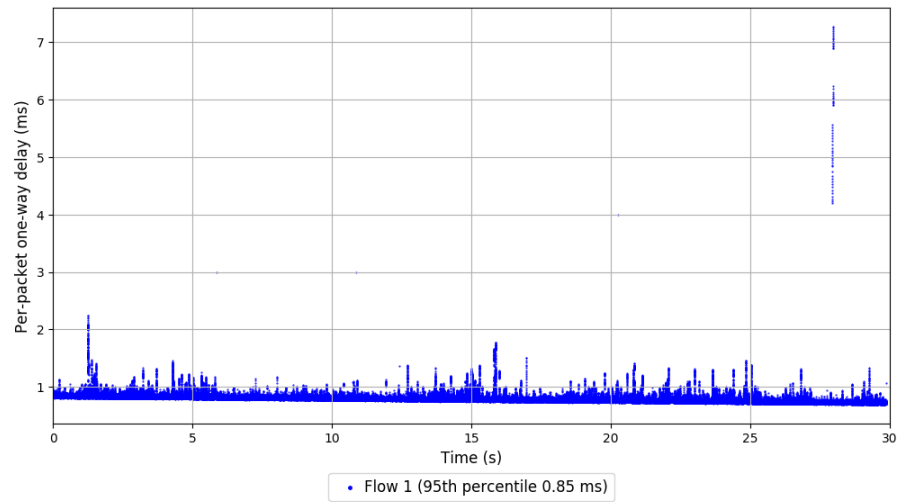
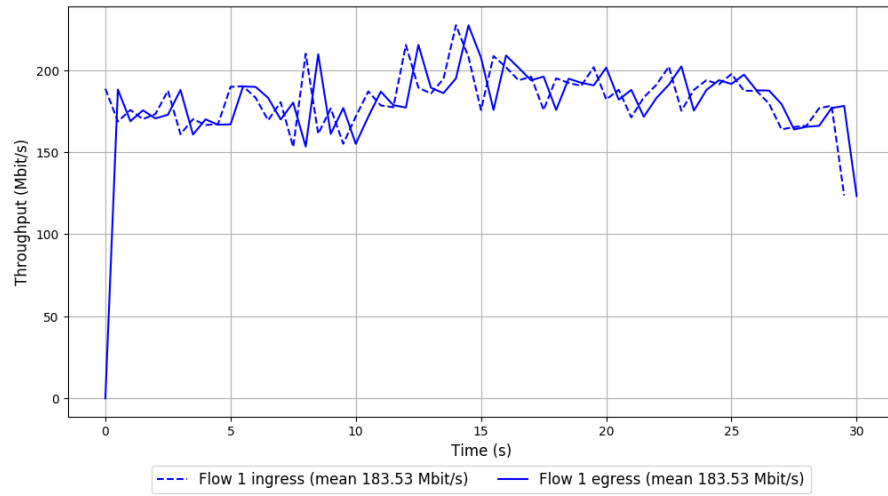
-- Flow 1:

Average throughput: 183.53 Mbit/s

95th percentile per-packet one-way delay: 0.850 ms

Loss rate: 0.01%

Run 4: Report of Indigo — Data Link

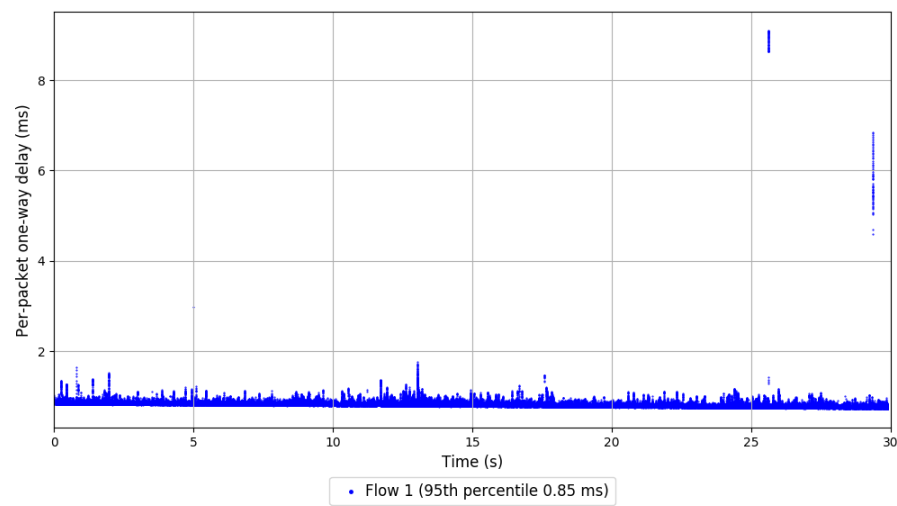
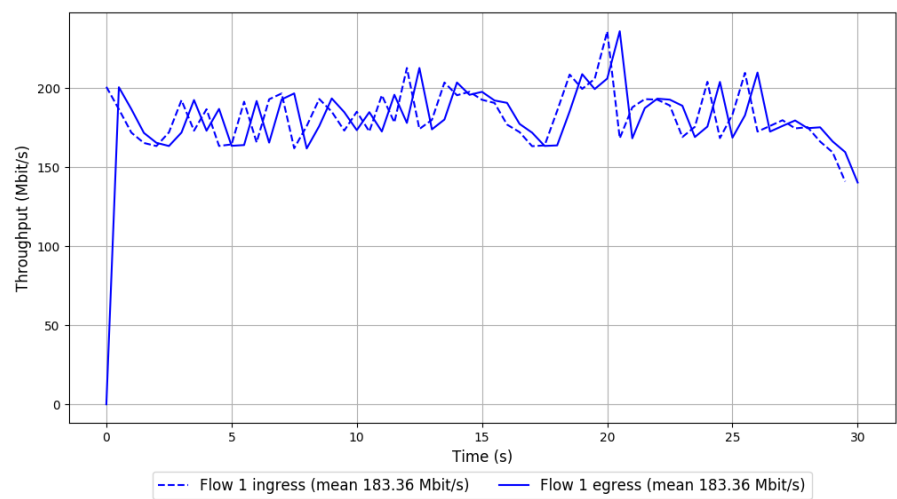


Run 5: Statistics of Indigo

Start at: 2019-03-27 08:31:27
End at: 2019-03-27 08:31:57
Local clock offset: 8.02 ms
Remote clock offset: -1.134 ms

Below is generated by plot.py at 2019-03-27 09:47:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 183.36 Mbit/s
95th percentile per-packet one-way delay: 0.854 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 183.36 Mbit/s
95th percentile per-packet one-way delay: 0.854 ms
Loss rate: 0.01%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-03-27 06:50:58

End at: 2019-03-27 06:51:28

Local clock offset: -1.567 ms

Remote clock offset: 0.192 ms

Below is generated by plot.py at 2019-03-27 09:47:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.83 Mbit/s

95th percentile per-packet one-way delay: 1.242 ms

Loss rate: 0.01%

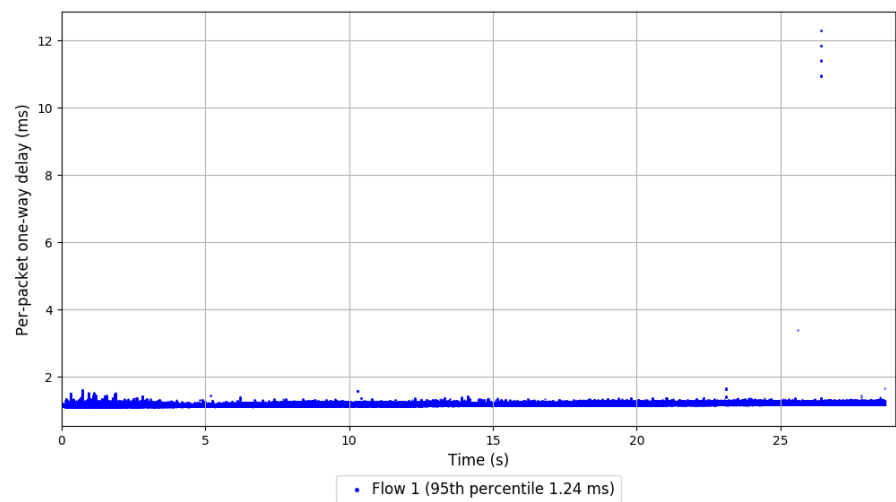
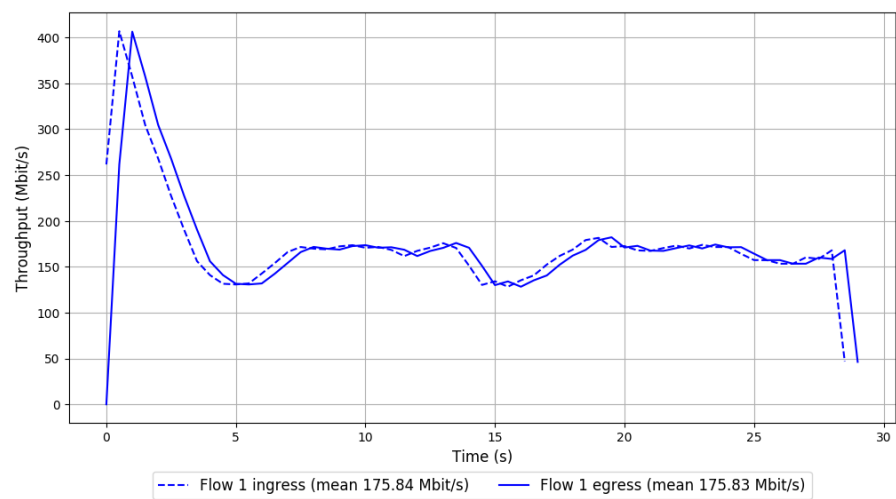
-- Flow 1:

Average throughput: 175.83 Mbit/s

95th percentile per-packet one-way delay: 1.242 ms

Loss rate: 0.01%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-03-27 07:20:26

End at: 2019-03-27 07:20:56

Local clock offset: -4.249 ms

Remote clock offset: 3.617 ms

Below is generated by plot.py at 2019-03-27 09:47:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 240.02 Mbit/s

95th percentile per-packet one-way delay: 1.044 ms

Loss rate: 0.00%

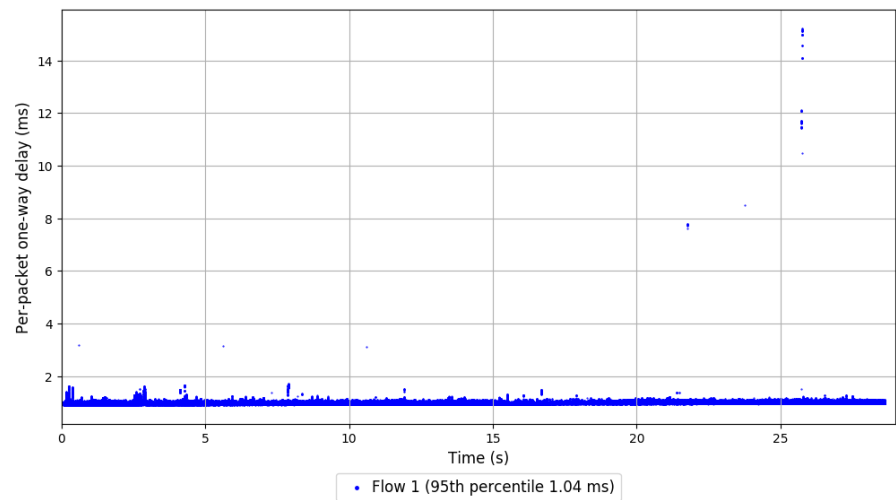
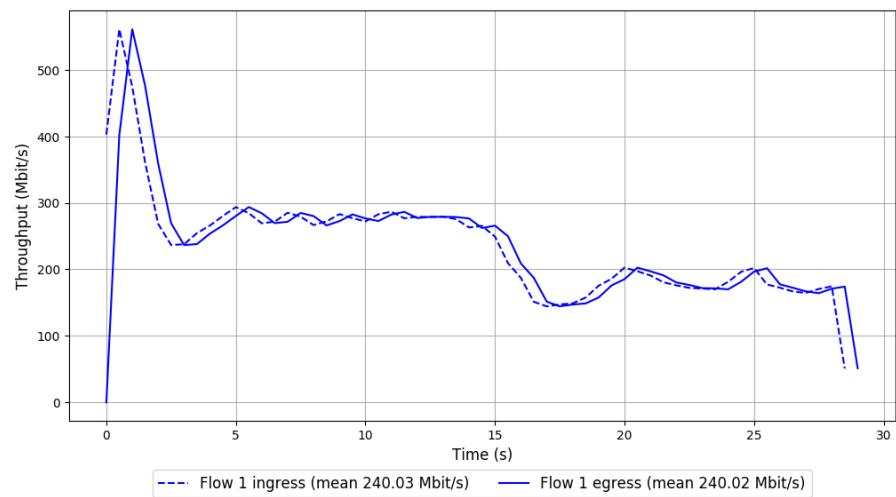
-- Flow 1:

Average throughput: 240.02 Mbit/s

95th percentile per-packet one-way delay: 1.044 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-03-27 07:50:24

End at: 2019-03-27 07:50:54

Local clock offset: -1.672 ms

Remote clock offset: 3.39 ms

Below is generated by plot.py at 2019-03-27 09:47:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.91 Mbit/s

95th percentile per-packet one-way delay: 0.643 ms

Loss rate: 0.01%

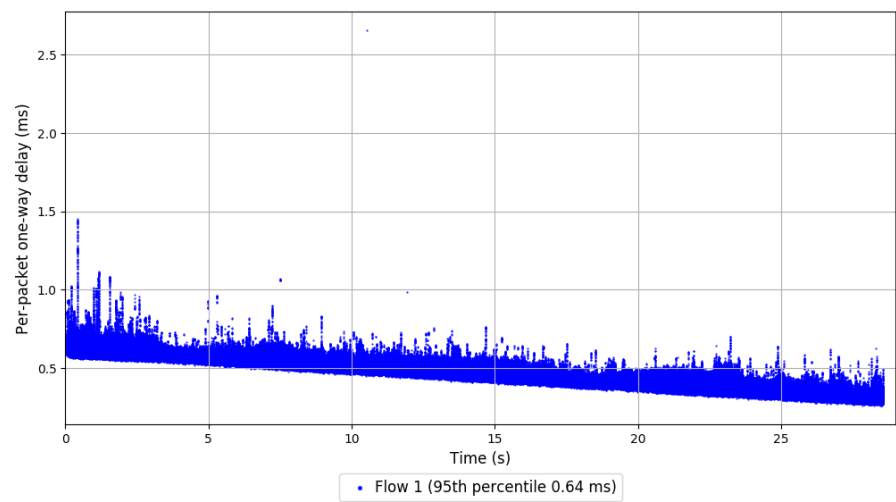
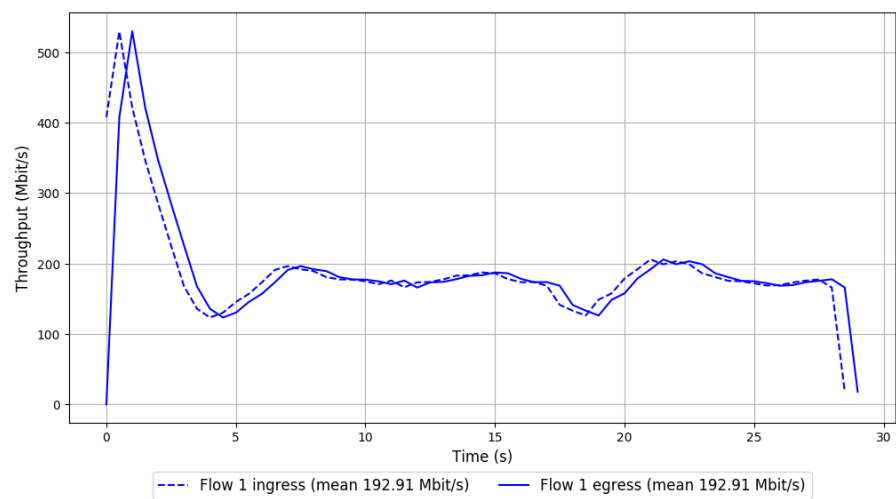
-- Flow 1:

Average throughput: 192.91 Mbit/s

95th percentile per-packet one-way delay: 0.643 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-03-27 08:20:09

End at: 2019-03-27 08:20:39

Local clock offset: 6.639 ms

Remote clock offset: 0.187 ms

Below is generated by plot.py at 2019-03-27 09:47:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 262.85 Mbit/s

95th percentile per-packet one-way delay: 0.880 ms

Loss rate: 0.01%

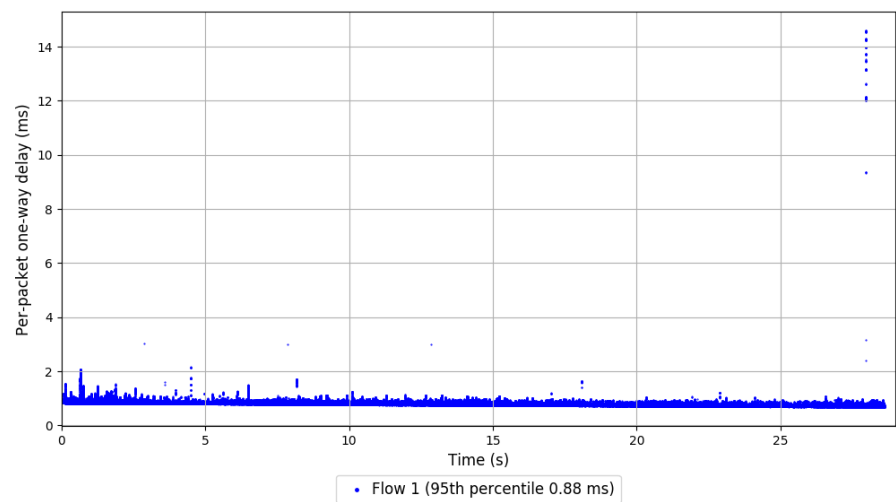
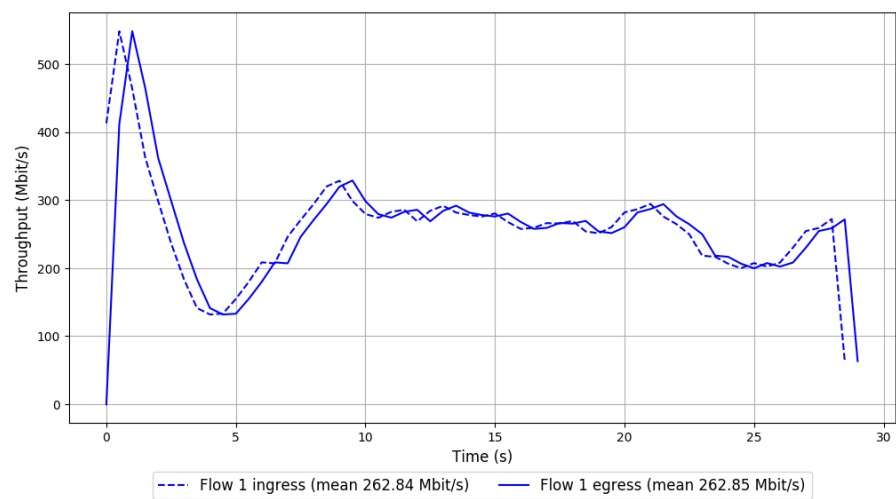
-- Flow 1:

Average throughput: 262.85 Mbit/s

95th percentile per-packet one-way delay: 0.880 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-03-27 08:50:03

End at: 2019-03-27 08:50:33

Local clock offset: 4.815 ms

Remote clock offset: 0.755 ms

Below is generated by plot.py at 2019-03-27 09:47:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 277.70 Mbit/s

95th percentile per-packet one-way delay: 2.332 ms

Loss rate: 0.00%

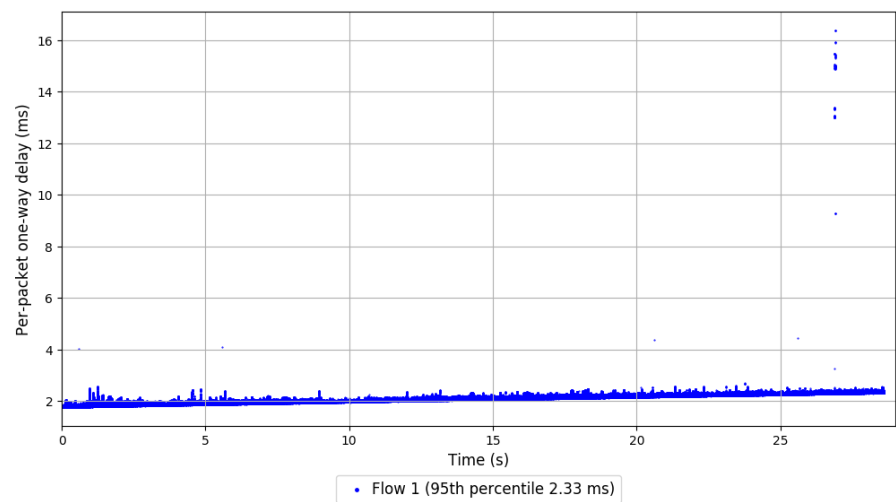
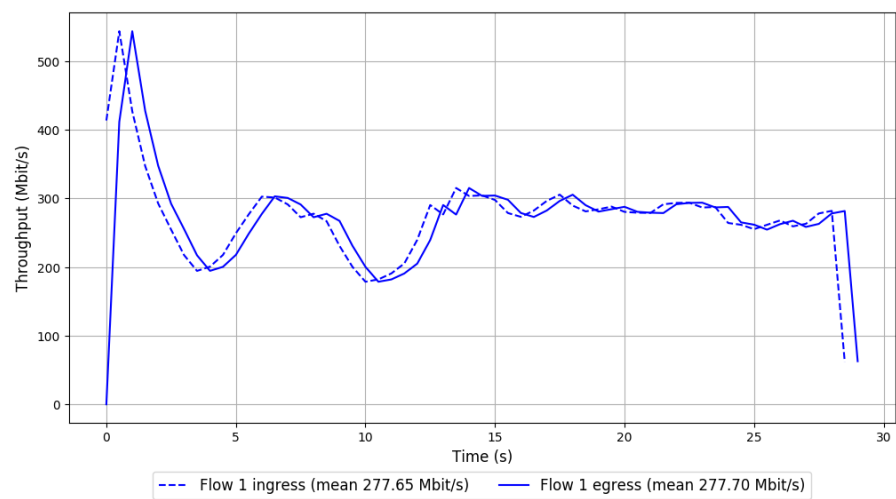
-- Flow 1:

Average throughput: 277.70 Mbit/s

95th percentile per-packet one-way delay: 2.332 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-03-27 06:58:00

End at: 2019-03-27 06:58:30

Local clock offset: -2.634 ms

Remote clock offset: 0.132 ms

Below is generated by plot.py at 2019-03-27 09:47:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.89 Mbit/s

95th percentile per-packet one-way delay: 1.202 ms

Loss rate: 0.00%

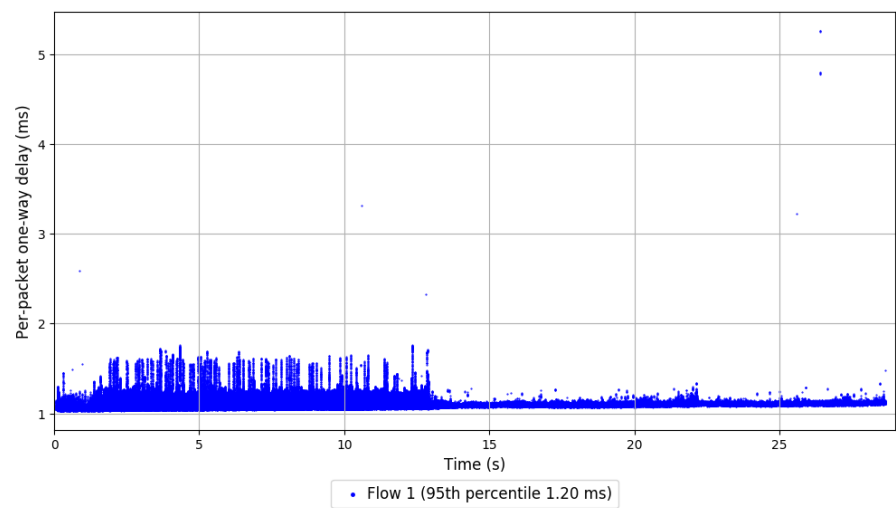
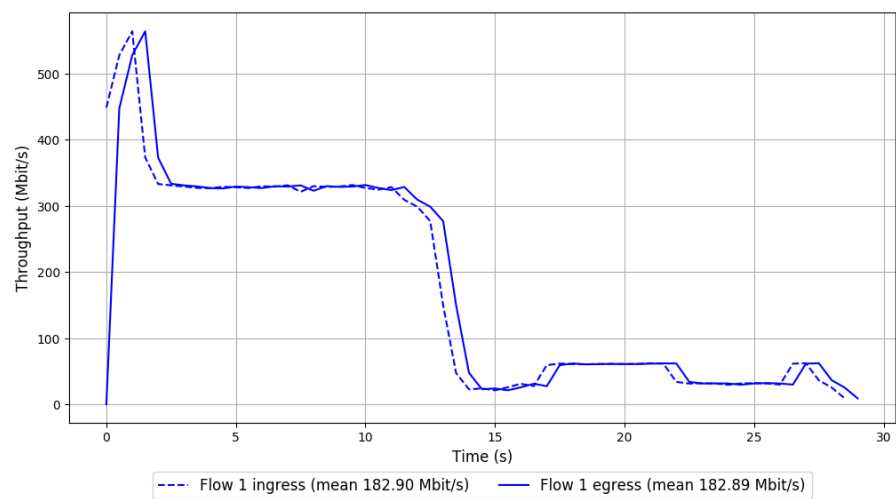
-- Flow 1:

Average throughput: 182.89 Mbit/s

95th percentile per-packet one-way delay: 1.202 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-03-27 07:27:53

End at: 2019-03-27 07:28:23

Local clock offset: -4.639 ms

Remote clock offset: 4.071 ms

Below is generated by plot.py at 2019-03-27 09:47:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 145.04 Mbit/s

95th percentile per-packet one-way delay: 1.099 ms

Loss rate: 0.00%

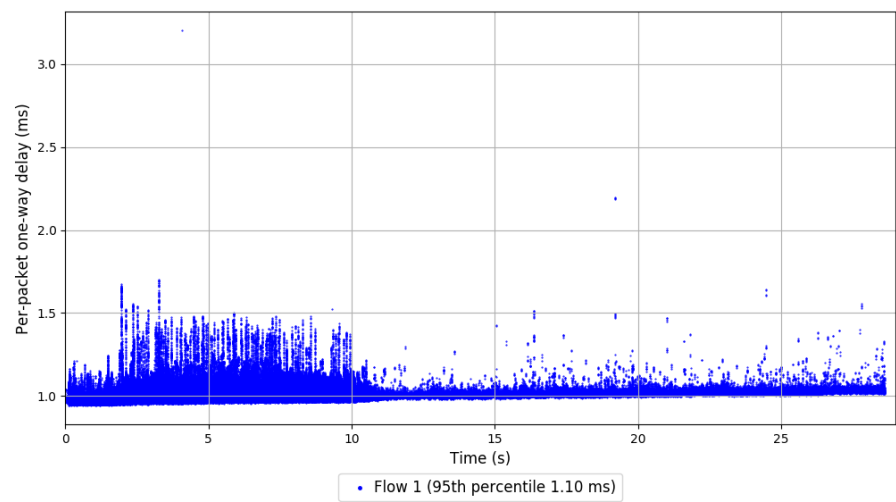
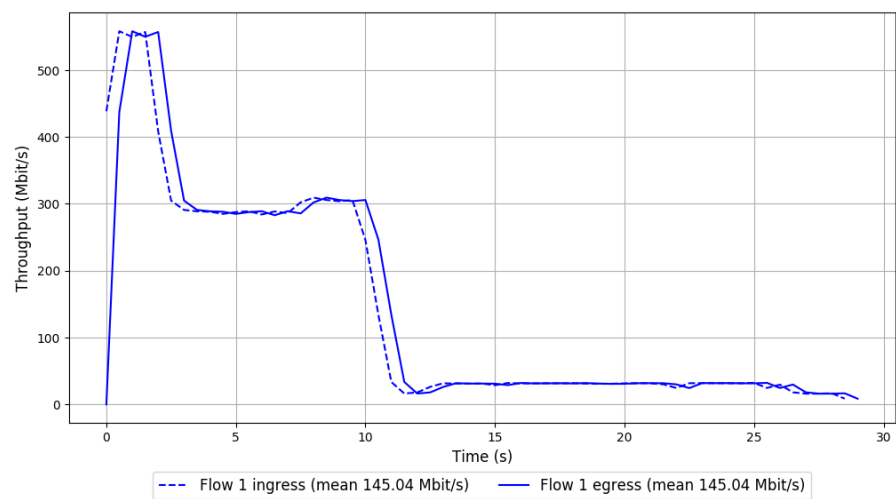
-- Flow 1:

Average throughput: 145.04 Mbit/s

95th percentile per-packet one-way delay: 1.099 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-03-27 07:57:41

End at: 2019-03-27 07:58:11

Local clock offset: 2.069 ms

Remote clock offset: 3.525 ms

Below is generated by plot.py at 2019-03-27 09:47:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 244.06 Mbit/s

95th percentile per-packet one-way delay: 0.779 ms

Loss rate: 0.01%

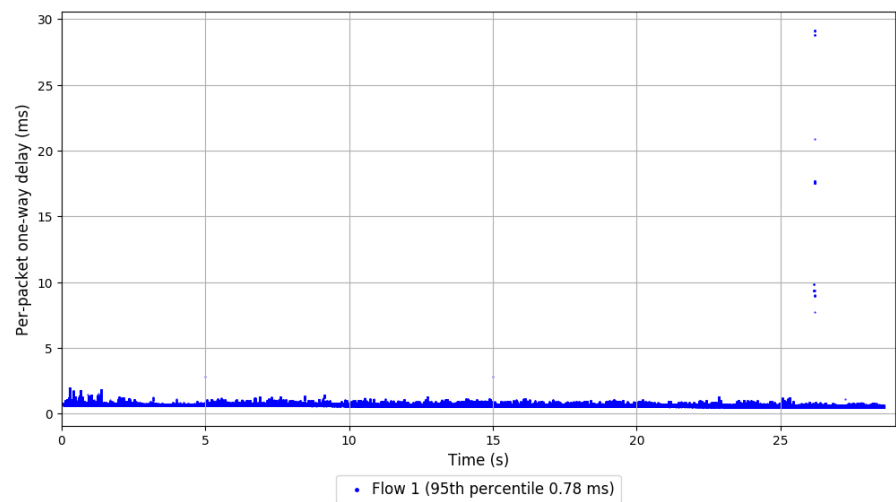
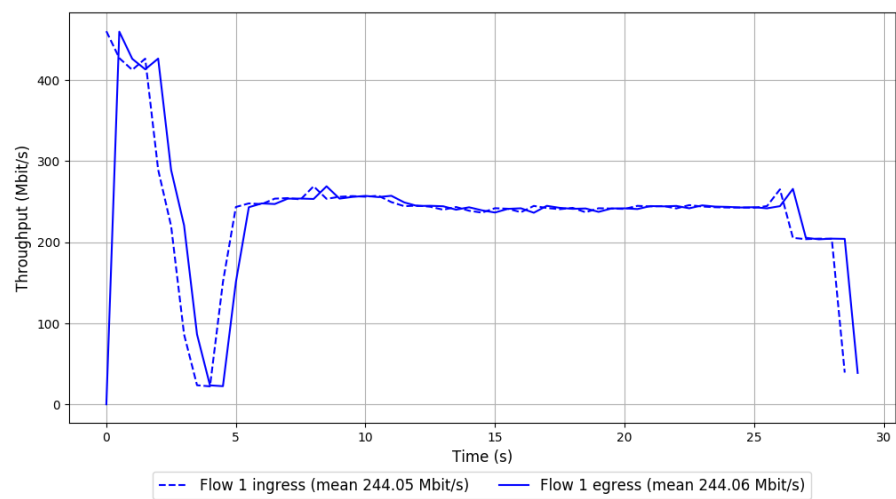
-- Flow 1:

Average throughput: 244.06 Mbit/s

95th percentile per-packet one-way delay: 0.779 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesC5 — Data Link

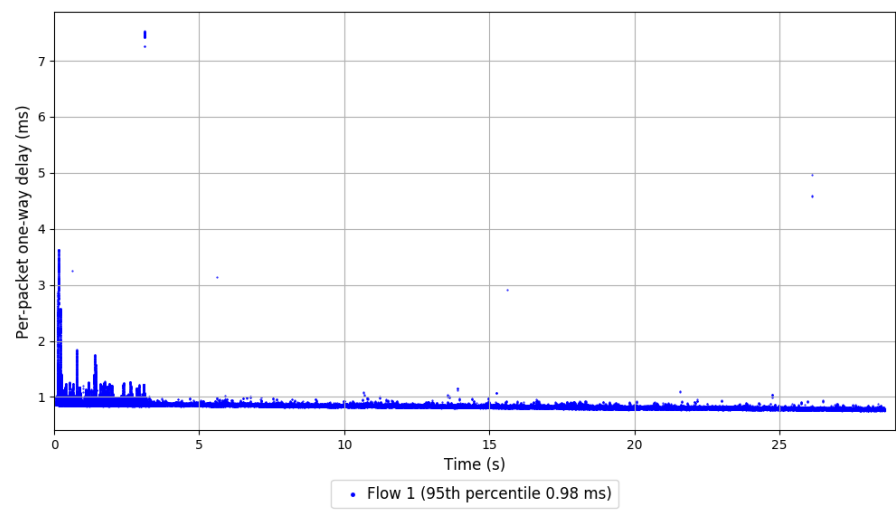
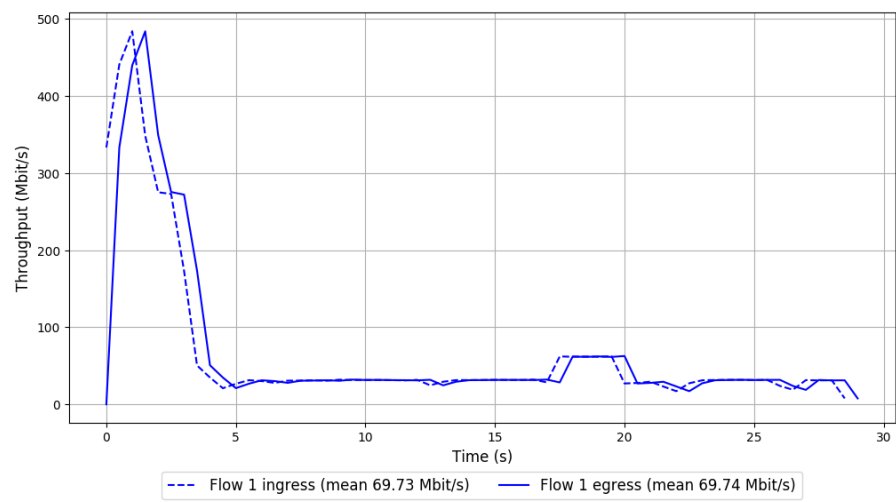


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-03-27 08:27:34
End at: 2019-03-27 08:28:04
Local clock offset: 7.553 ms
Remote clock offset: -0.825 ms

Below is generated by plot.py at 2019-03-27 09:47:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 69.74 Mbit/s
95th percentile per-packet one-way delay: 0.982 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.74 Mbit/s
95th percentile per-packet one-way delay: 0.982 ms
Loss rate: 0.00%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-03-27 08:57:26

End at: 2019-03-27 08:57:56

Local clock offset: -0.724 ms

Remote clock offset: 1.979 ms

Below is generated by plot.py at 2019-03-27 09:47:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.80 Mbit/s

95th percentile per-packet one-way delay: 1.602 ms

Loss rate: 0.00%

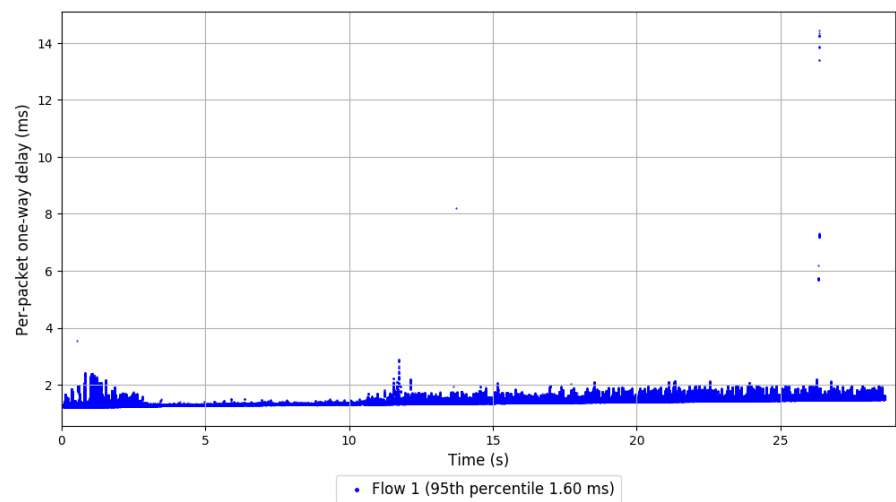
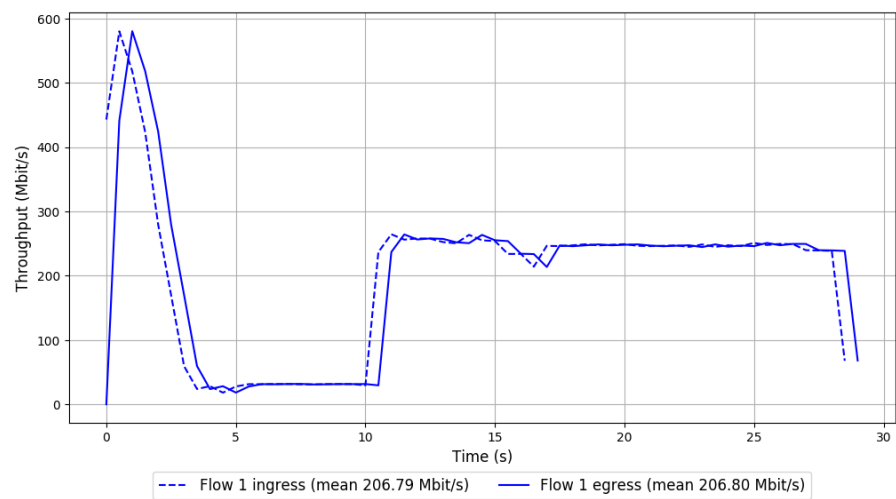
-- Flow 1:

Average throughput: 206.80 Mbit/s

95th percentile per-packet one-way delay: 1.602 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-03-27 06:45:23

End at: 2019-03-27 06:45:53

Local clock offset: -0.412 ms

Remote clock offset: 0.451 ms

Below is generated by plot.py at 2019-03-27 09:47:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.31 Mbit/s

95th percentile per-packet one-way delay: 0.995 ms

Loss rate: 0.01%

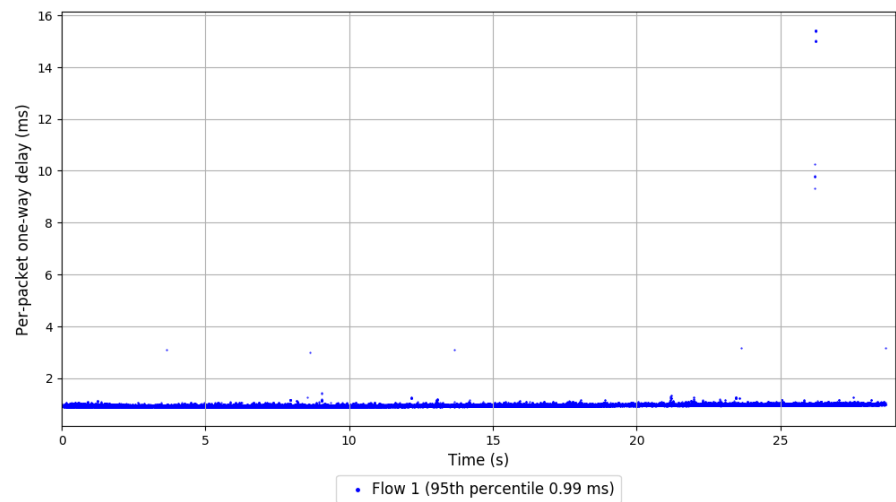
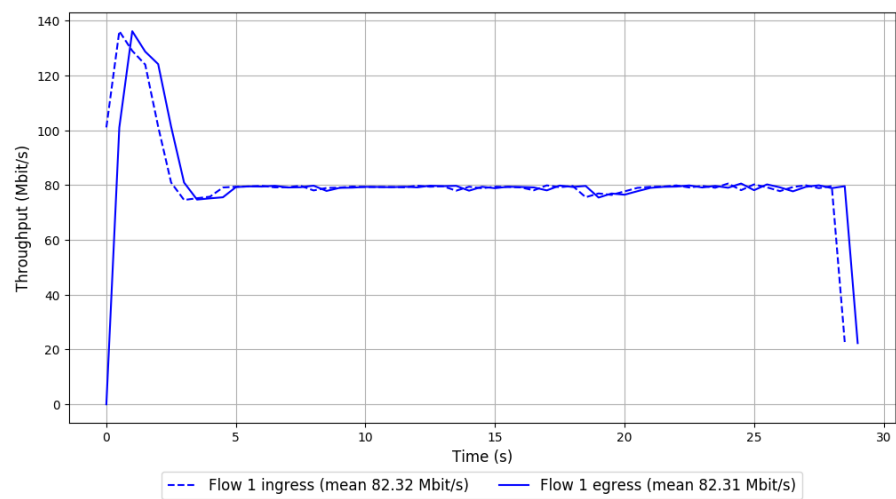
-- Flow 1:

Average throughput: 82.31 Mbit/s

95th percentile per-packet one-way delay: 0.995 ms

Loss rate: 0.01%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-03-27 07:14:52

End at: 2019-03-27 07:15:22

Local clock offset: -3.916 ms

Remote clock offset: 3.134 ms

Below is generated by plot.py at 2019-03-27 09:47:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.68 Mbit/s

95th percentile per-packet one-way delay: 1.048 ms

Loss rate: 0.00%

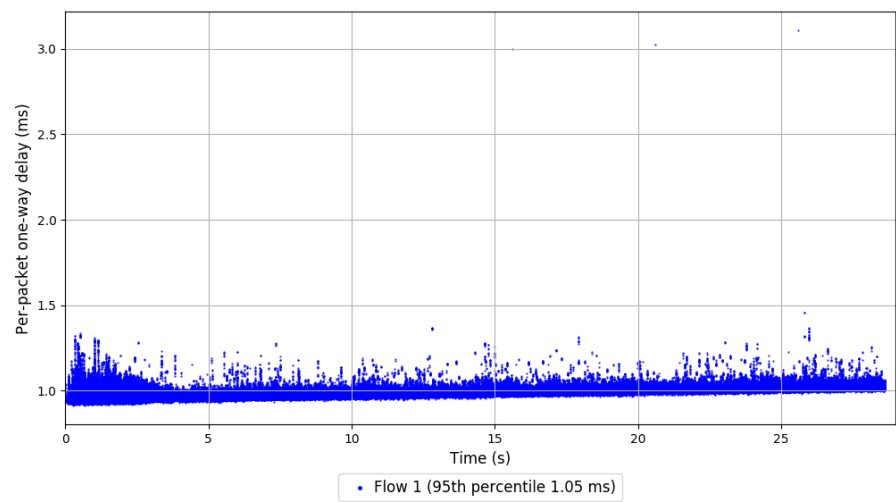
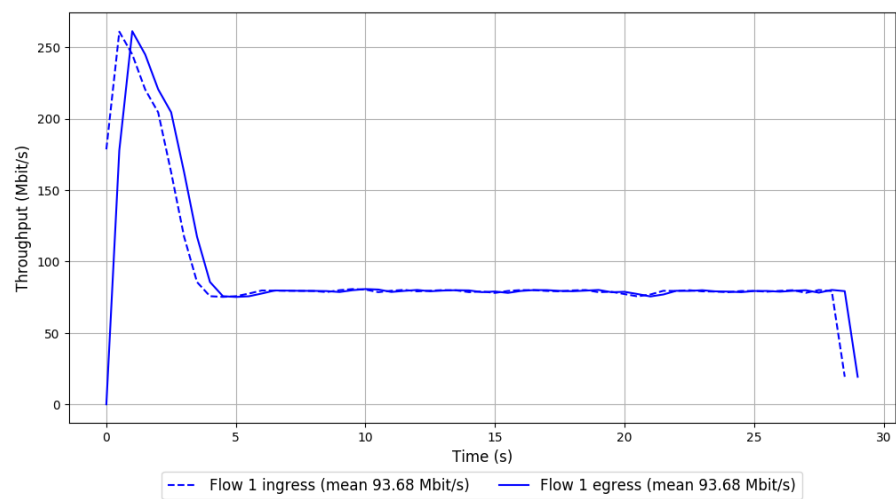
-- Flow 1:

Average throughput: 93.68 Mbit/s

95th percentile per-packet one-way delay: 1.048 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-03-27 07:44:48

End at: 2019-03-27 07:45:18

Local clock offset: -5.467 ms

Remote clock offset: 3.499 ms

Below is generated by plot.py at 2019-03-27 09:47:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.89 Mbit/s

95th percentile per-packet one-way delay: 1.065 ms

Loss rate: 0.01%

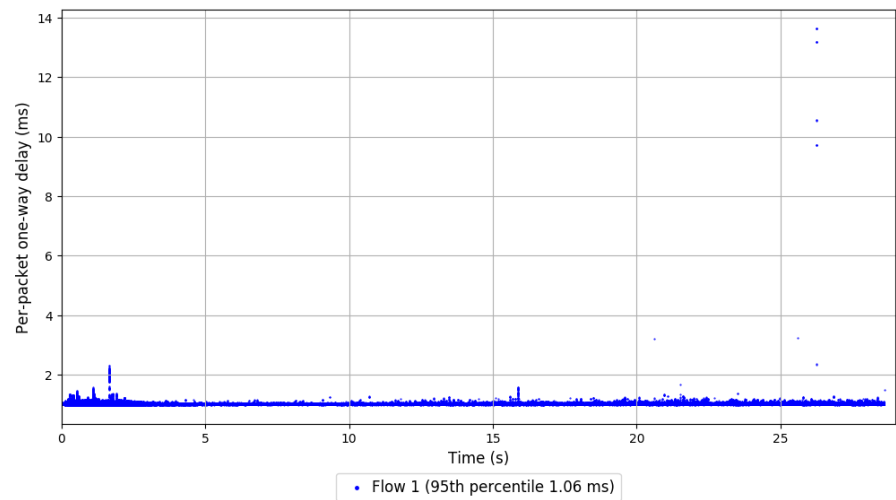
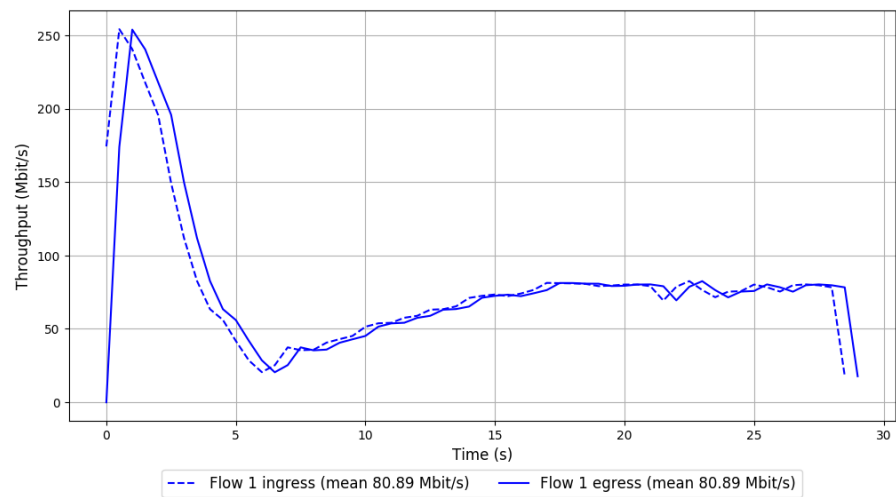
-- Flow 1:

Average throughput: 80.89 Mbit/s

95th percentile per-packet one-way delay: 1.065 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-03-27 08:14:36

End at: 2019-03-27 08:15:06

Local clock offset: 5.856 ms

Remote clock offset: 1.475 ms

Below is generated by plot.py at 2019-03-27 09:47:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.69 Mbit/s

95th percentile per-packet one-way delay: 0.751 ms

Loss rate: 0.01%

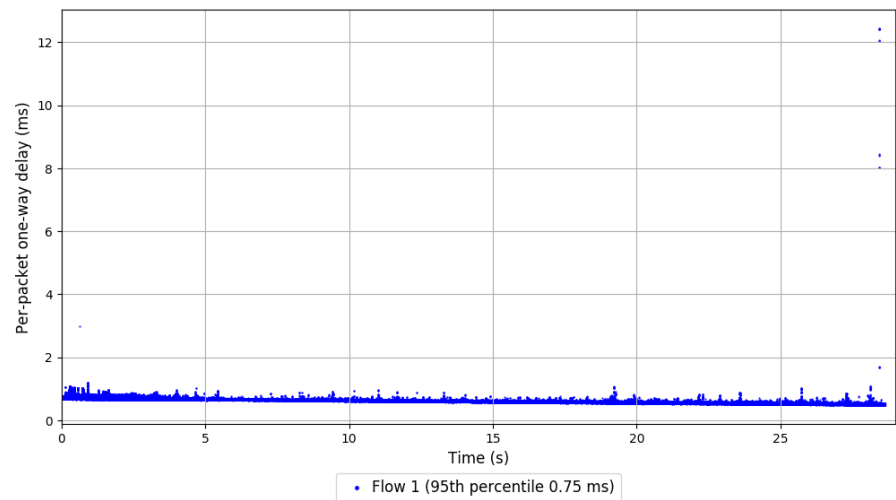
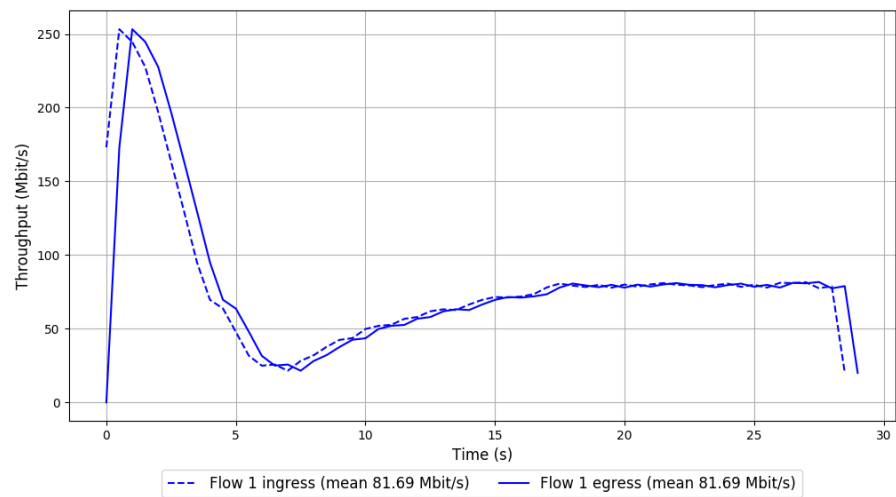
-- Flow 1:

Average throughput: 81.69 Mbit/s

95th percentile per-packet one-way delay: 0.751 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-03-27 08:44:29

End at: 2019-03-27 08:44:59

Local clock offset: 9.518 ms

Remote clock offset: -1.093 ms

Below is generated by plot.py at 2019-03-27 09:47:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.41 Mbit/s

95th percentile per-packet one-way delay: 1.227 ms

Loss rate: 0.00%

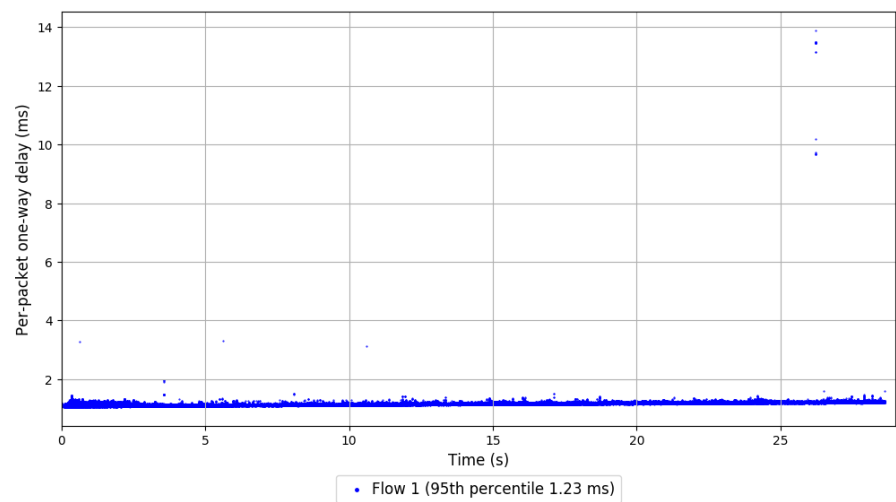
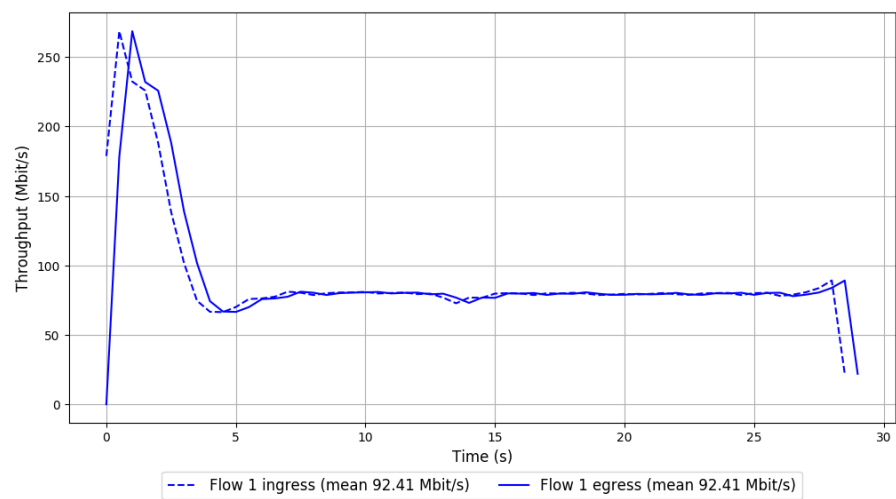
-- Flow 1:

Average throughput: 92.41 Mbit/s

95th percentile per-packet one-way delay: 1.227 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-03-27 06:59:19

End at: 2019-03-27 06:59:49

Local clock offset: -2.783 ms

Remote clock offset: 0.22 ms

Below is generated by plot.py at 2019-03-27 09:47:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.15 Mbit/s

95th percentile per-packet one-way delay: 1.090 ms

Loss rate: 0.00%

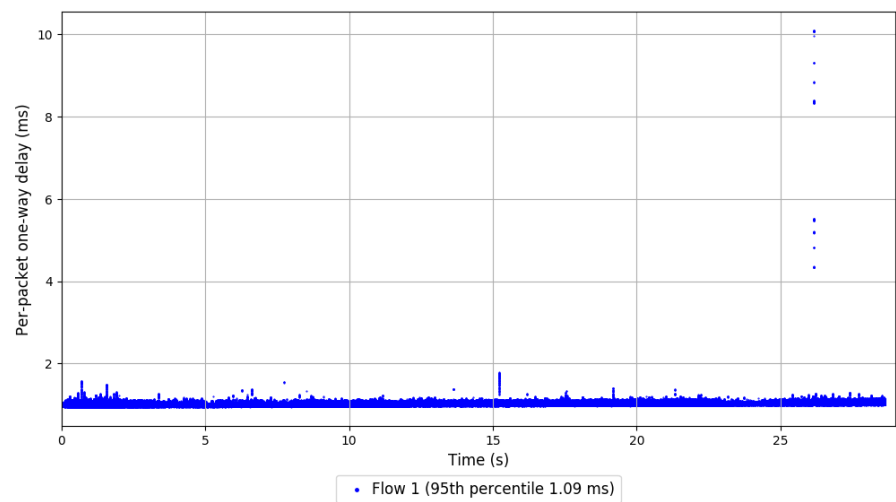
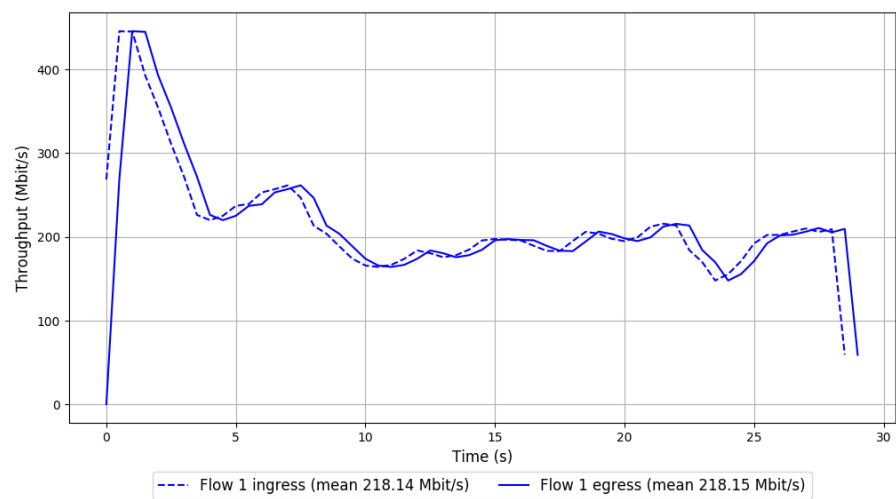
-- Flow 1:

Average throughput: 218.15 Mbit/s

95th percentile per-packet one-way delay: 1.090 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-03-27 07:29:11

End at: 2019-03-27 07:29:41

Local clock offset: -4.704 ms

Remote clock offset: 4.097 ms

Below is generated by plot.py at 2019-03-27 09:47:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 266.91 Mbit/s

95th percentile per-packet one-way delay: 1.155 ms

Loss rate: 0.01%

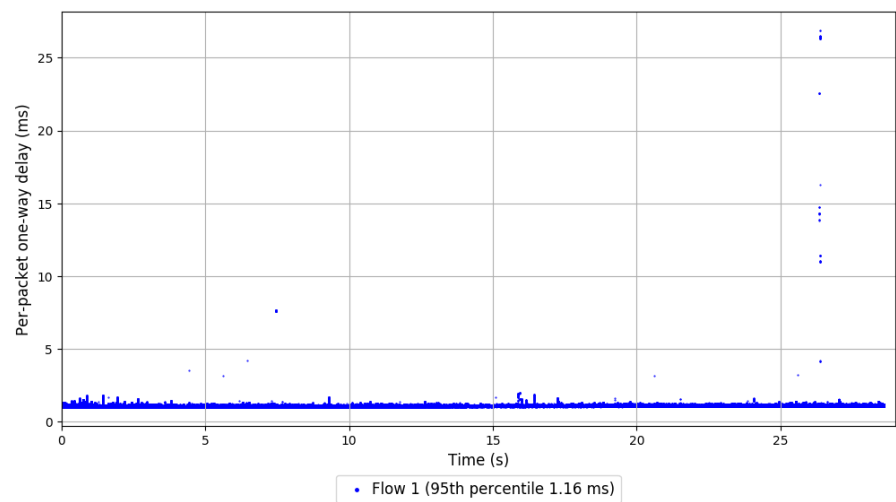
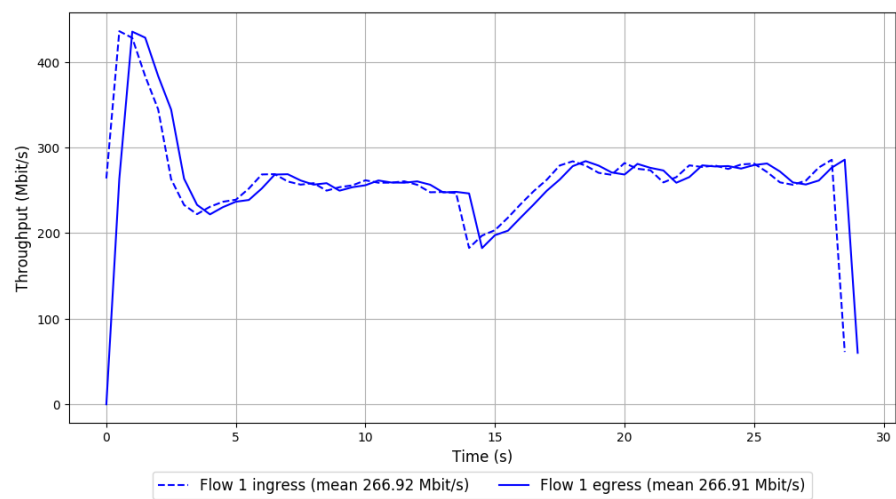
-- Flow 1:

Average throughput: 266.91 Mbit/s

95th percentile per-packet one-way delay: 1.155 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-03-27 07:59:02

End at: 2019-03-27 07:59:32

Local clock offset: 2.596 ms

Remote clock offset: 3.56 ms

Below is generated by plot.py at 2019-03-27 09:47:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 249.46 Mbit/s

95th percentile per-packet one-way delay: 0.848 ms

Loss rate: 0.01%

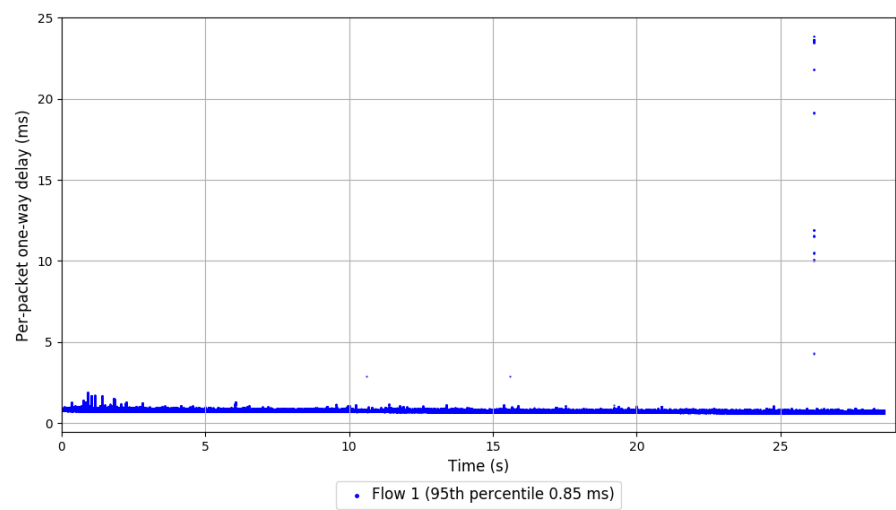
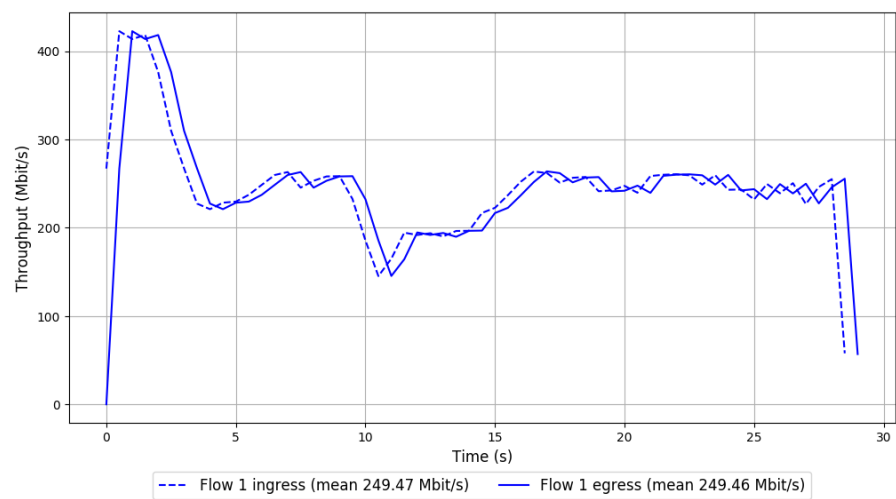
-- Flow 1:

Average throughput: 249.46 Mbit/s

95th percentile per-packet one-way delay: 0.848 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesT — Data Link

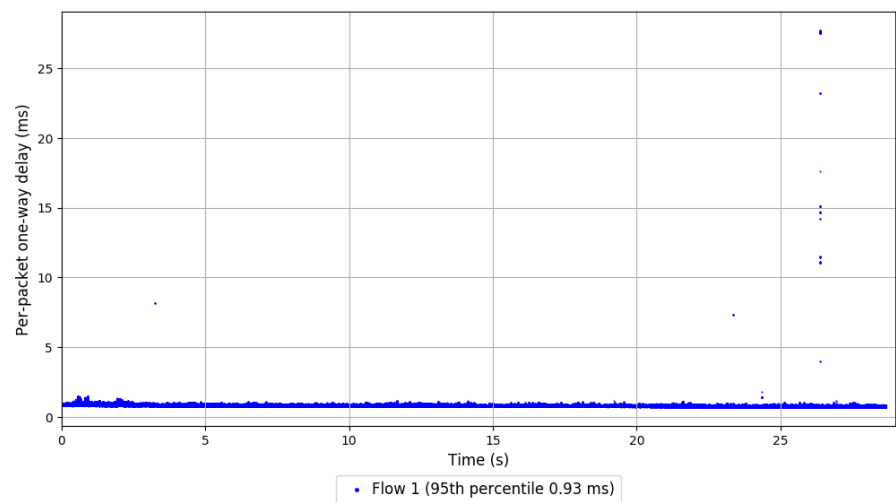
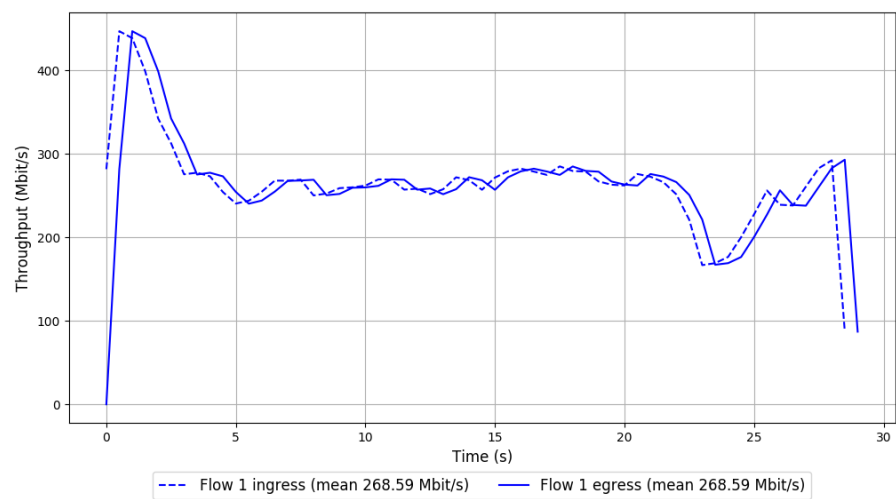


Run 4: Statistics of Indigo-MusesT

Start at: 2019-03-27 08:28:49
End at: 2019-03-27 08:29:19
Local clock offset: 7.72 ms
Remote clock offset: -0.903 ms

Below is generated by plot.py at 2019-03-27 09:47:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 268.59 Mbit/s
95th percentile per-packet one-way delay: 0.925 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 268.59 Mbit/s
95th percentile per-packet one-way delay: 0.925 ms
Loss rate: 0.01%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-03-27 08:58:46

End at: 2019-03-27 08:59:16

Local clock offset: -1.309 ms

Remote clock offset: 2.057 ms

Below is generated by plot.py at 2019-03-27 09:47:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.25 Mbit/s

95th percentile per-packet one-way delay: 1.580 ms

Loss rate: 0.00%

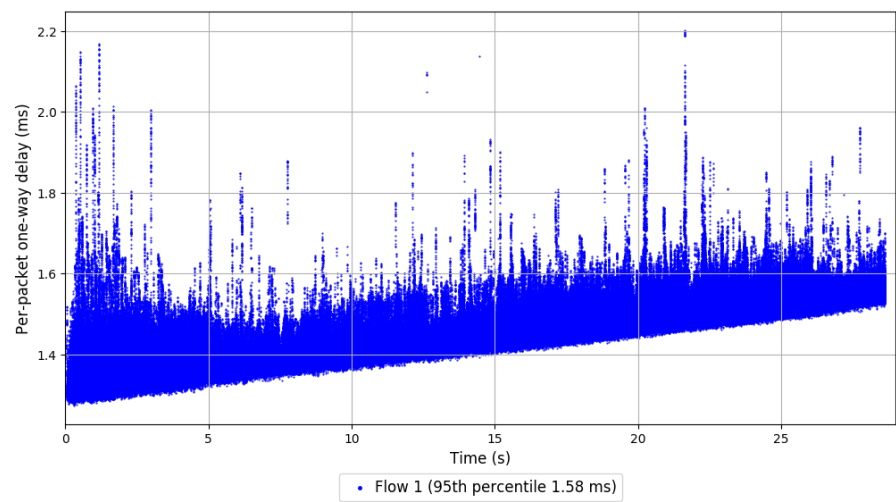
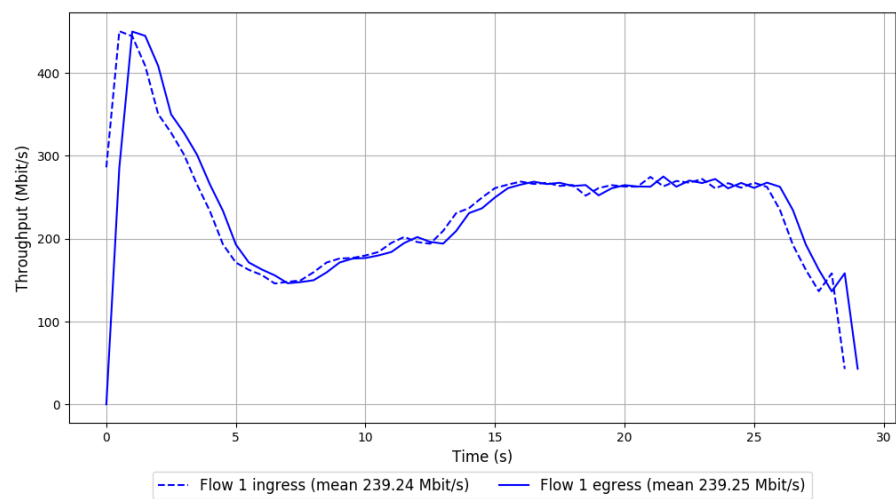
-- Flow 1:

Average throughput: 239.25 Mbit/s

95th percentile per-packet one-way delay: 1.580 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-03-27 06:34:57

End at: 2019-03-27 06:35:27

Local clock offset: -0.275 ms

Remote clock offset: 1.531 ms

Below is generated by plot.py at 2019-03-27 09:49:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 569.56 Mbit/s

95th percentile per-packet one-way delay: 4.586 ms

Loss rate: 0.01%

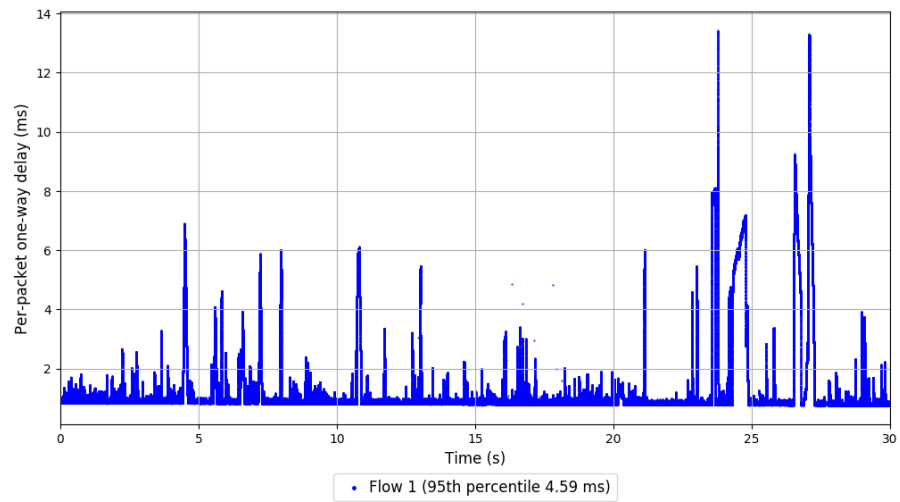
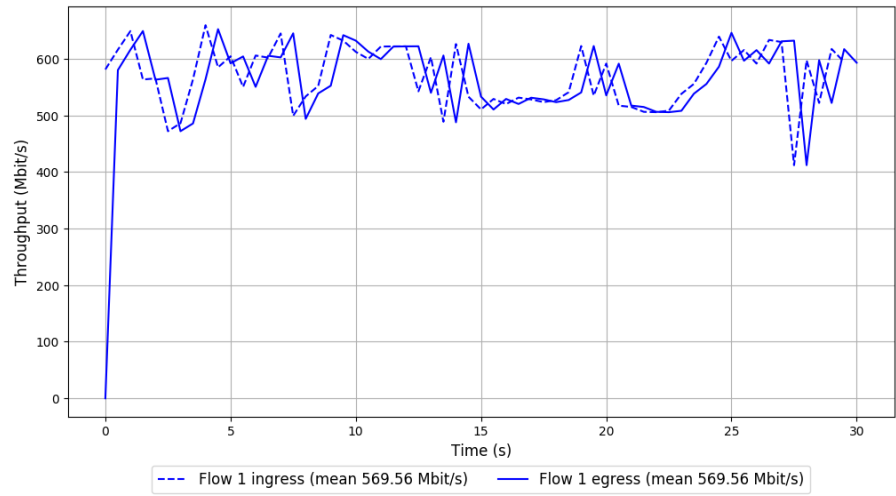
-- Flow 1:

Average throughput: 569.56 Mbit/s

95th percentile per-packet one-way delay: 4.586 ms

Loss rate: 0.01%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-03-27 07:04:29

End at: 2019-03-27 07:04:59

Local clock offset: -3.256 ms

Remote clock offset: 1.379 ms

Below is generated by plot.py at 2019-03-27 09:49:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 570.60 Mbit/s

95th percentile per-packet one-way delay: 4.976 ms

Loss rate: 0.01%

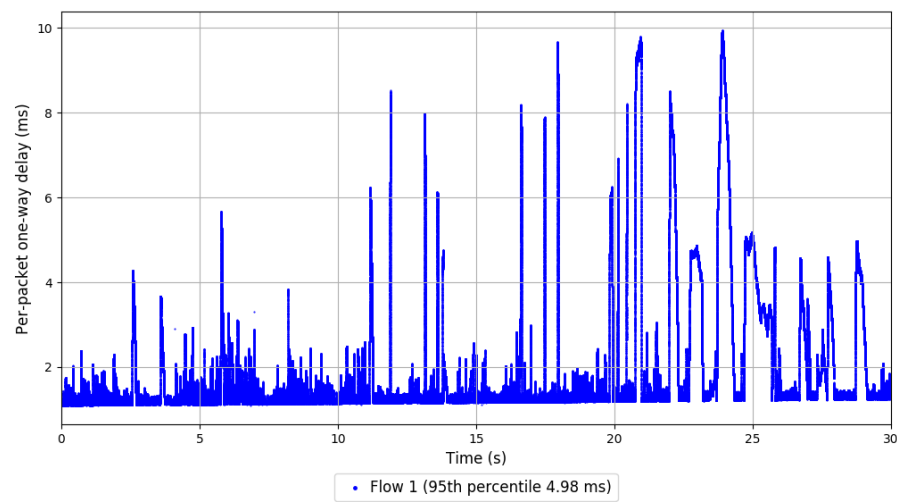
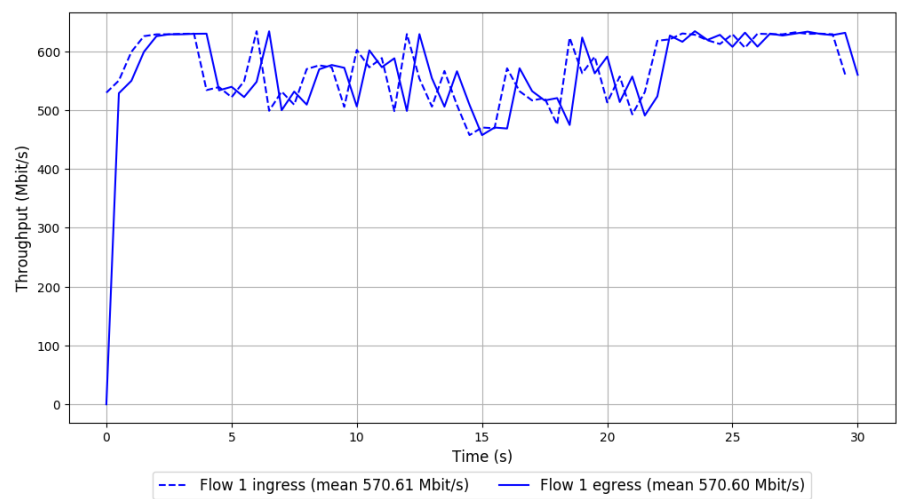
-- Flow 1:

Average throughput: 570.60 Mbit/s

95th percentile per-packet one-way delay: 4.976 ms

Loss rate: 0.01%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-03-27 07:34:22

End at: 2019-03-27 07:34:52

Local clock offset: -4.963 ms

Remote clock offset: 4.481 ms

Below is generated by plot.py at 2019-03-27 09:50:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 538.39 Mbit/s

95th percentile per-packet one-way delay: 7.744 ms

Loss rate: 0.01%

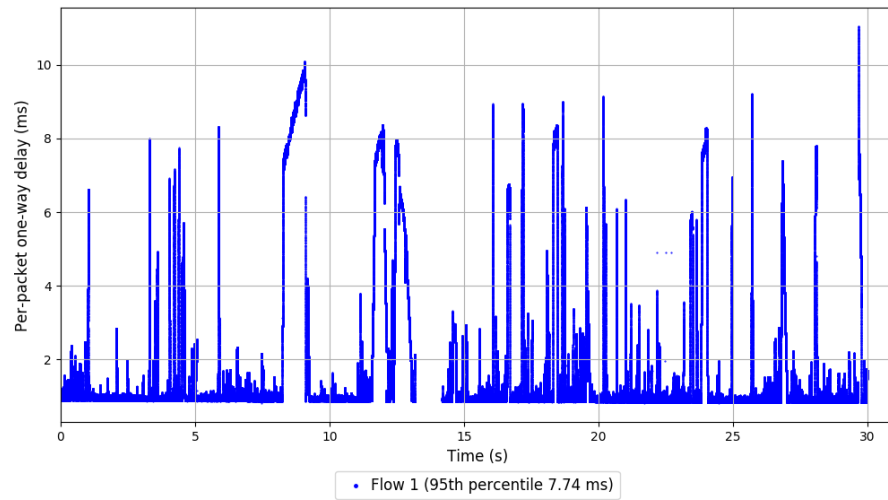
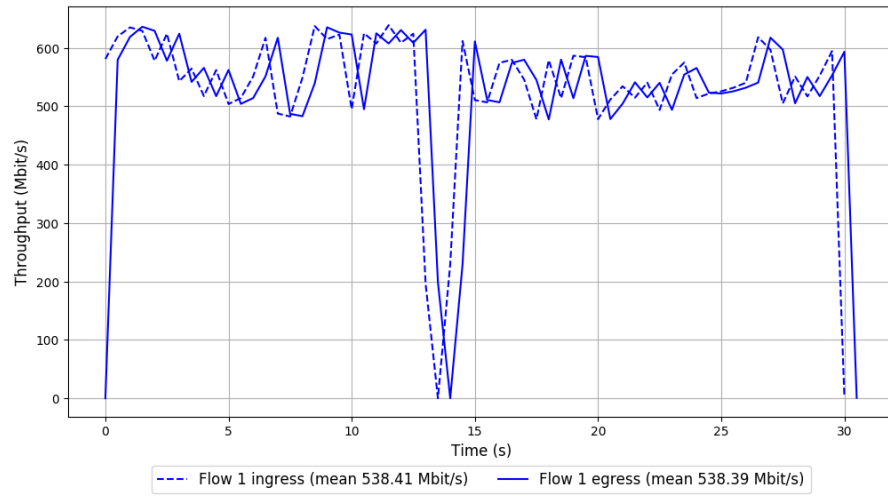
-- Flow 1:

Average throughput: 538.39 Mbit/s

95th percentile per-packet one-way delay: 7.744 ms

Loss rate: 0.01%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-03-27 08:04:13

End at: 2019-03-27 08:04:43

Local clock offset: 3.963 ms

Remote clock offset: 3.633 ms

Below is generated by plot.py at 2019-03-27 09:51:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 572.00 Mbit/s

95th percentile per-packet one-way delay: 8.488 ms

Loss rate: 0.01%

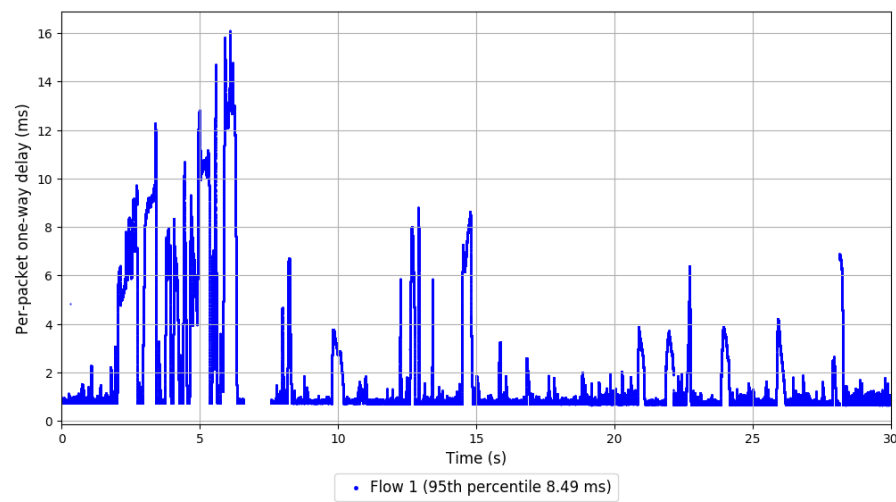
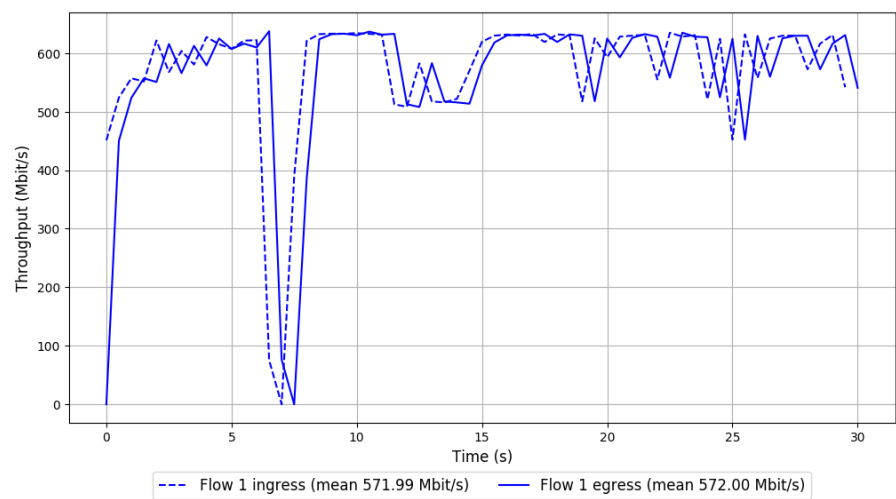
-- Flow 1:

Average throughput: 572.00 Mbit/s

95th percentile per-packet one-way delay: 8.488 ms

Loss rate: 0.01%

Run 4: Report of LEDBAT — Data Link

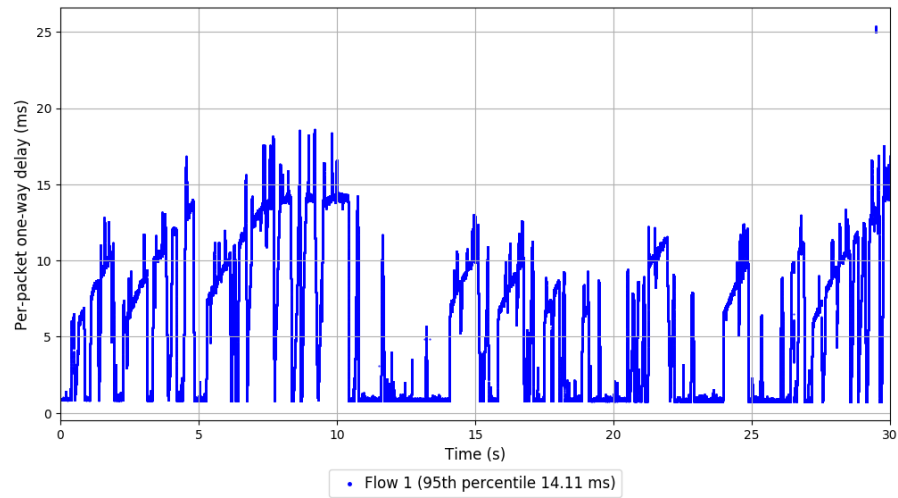
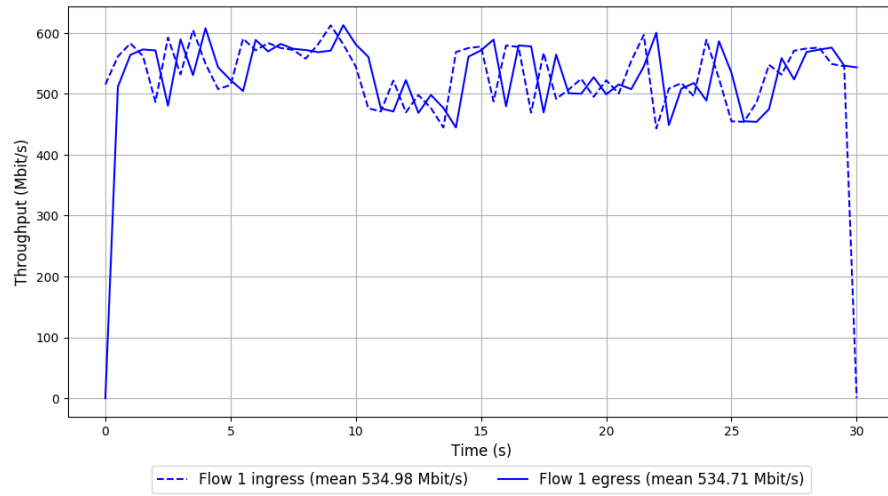


Run 5: Statistics of LEDBAT

Start at: 2019-03-27 08:34:01
End at: 2019-03-27 08:34:31
Local clock offset: 8.324 ms
Remote clock offset: -1.354 ms

Below is generated by plot.py at 2019-03-27 09:51:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 534.71 Mbit/s
95th percentile per-packet one-way delay: 14.108 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 534.71 Mbit/s
95th percentile per-packet one-way delay: 14.108 ms
Loss rate: 0.05%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-03-27 06:52:17

End at: 2019-03-27 06:52:47

Local clock offset: -1.828 ms

Remote clock offset: 0.263 ms

Below is generated by plot.py at 2019-03-27 09:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 779.90 Mbit/s

95th percentile per-packet one-way delay: 1.130 ms

Loss rate: 0.01%

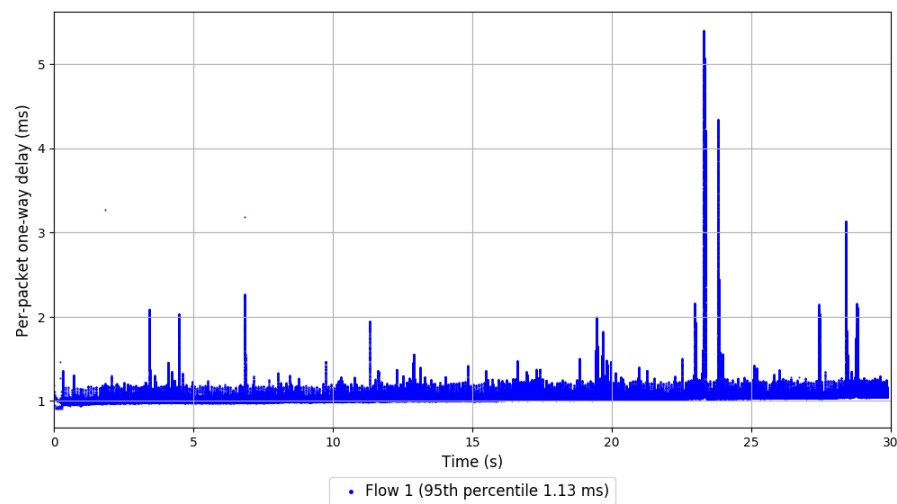
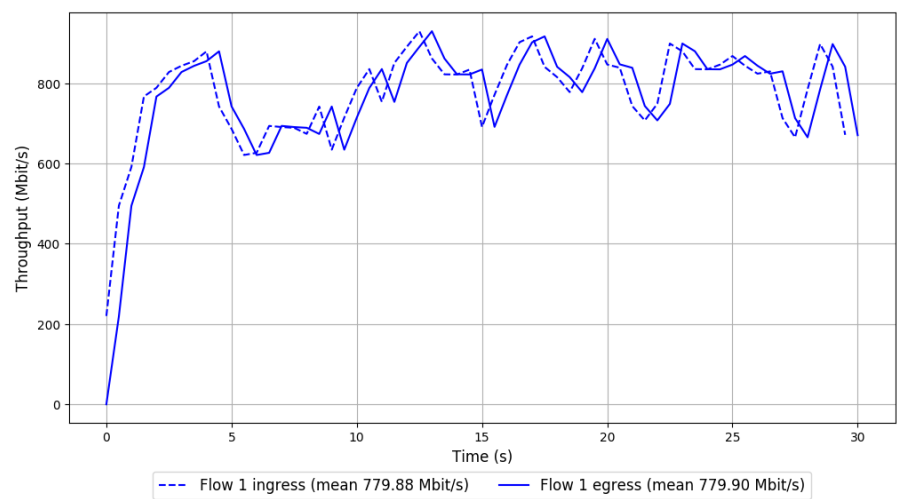
-- Flow 1:

Average throughput: 779.90 Mbit/s

95th percentile per-packet one-way delay: 1.130 ms

Loss rate: 0.01%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-03-27 07:21:47

End at: 2019-03-27 07:22:17

Local clock offset: -4.326 ms

Remote clock offset: 3.692 ms

Below is generated by plot.py at 2019-03-27 09:54:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 831.88 Mbit/s

95th percentile per-packet one-way delay: 1.231 ms

Loss rate: 0.01%

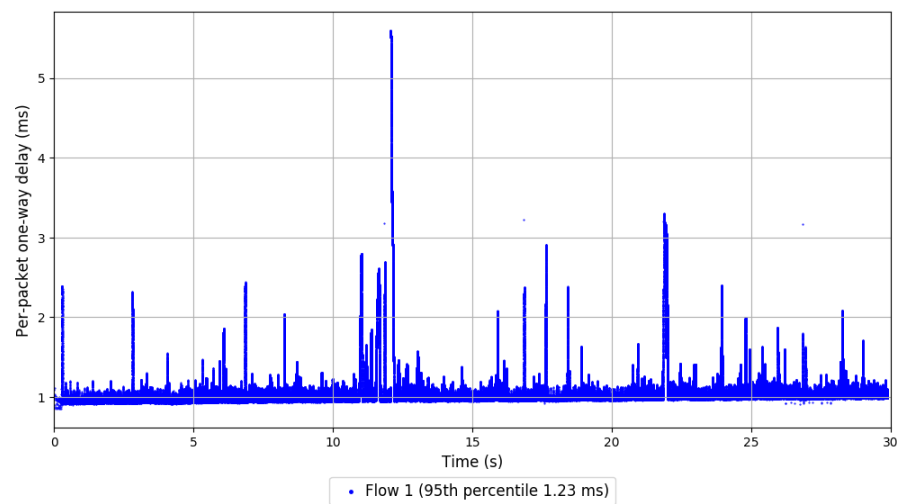
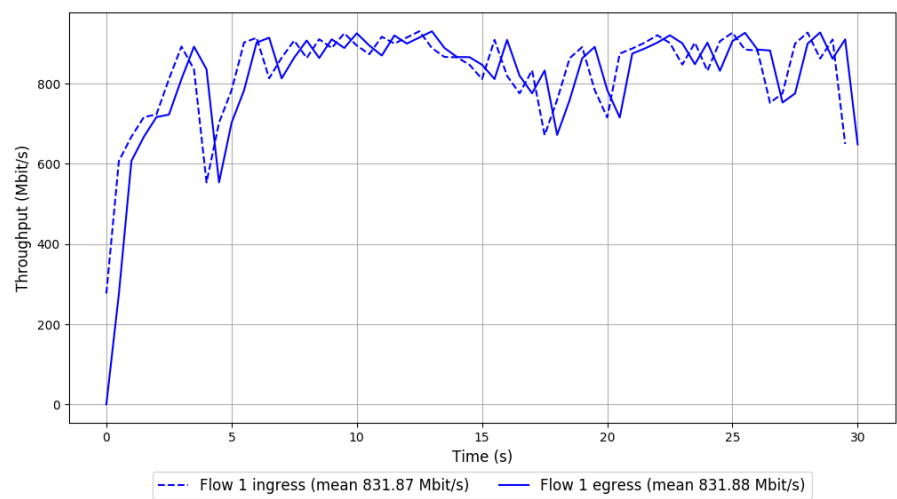
-- Flow 1:

Average throughput: 831.88 Mbit/s

95th percentile per-packet one-way delay: 1.231 ms

Loss rate: 0.01%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-03-27 07:51:43

End at: 2019-03-27 07:52:13

Local clock offset: -0.832 ms

Remote clock offset: 3.359 ms

Below is generated by plot.py at 2019-03-27 09:55:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 685.13 Mbit/s

95th percentile per-packet one-way delay: 0.668 ms

Loss rate: 0.01%

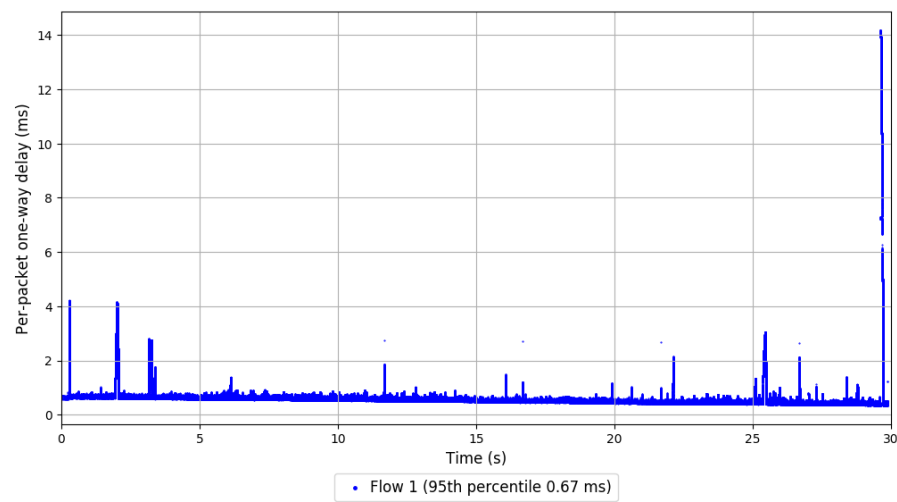
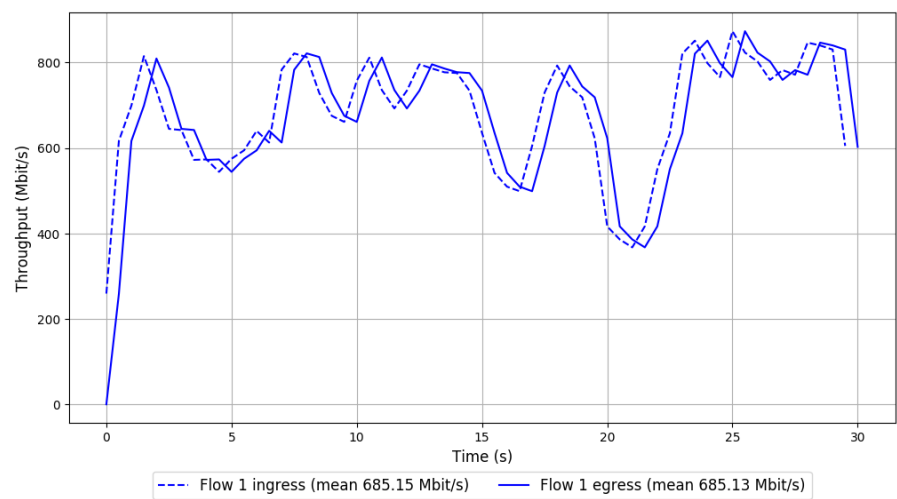
-- Flow 1:

Average throughput: 685.13 Mbit/s

95th percentile per-packet one-way delay: 0.668 ms

Loss rate: 0.01%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-03-27 08:21:30

End at: 2019-03-27 08:22:00

Local clock offset: 6.807 ms

Remote clock offset: -0.053 ms

Below is generated by plot.py at 2019-03-27 09:58:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 795.08 Mbit/s

95th percentile per-packet one-way delay: 24.328 ms

Loss rate: 0.26%

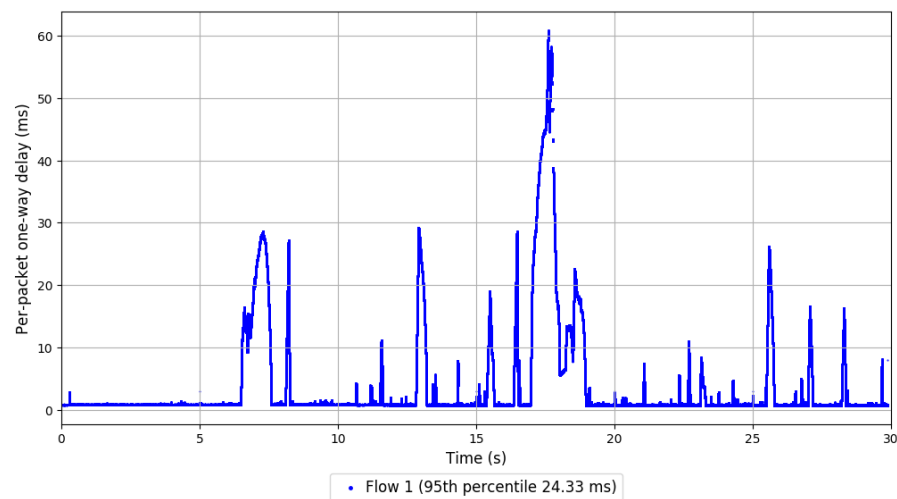
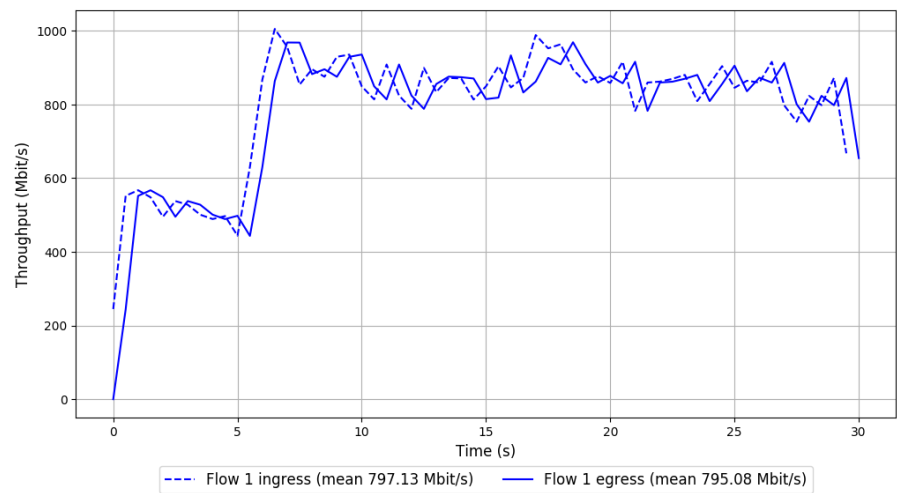
-- Flow 1:

Average throughput: 795.08 Mbit/s

95th percentile per-packet one-way delay: 24.328 ms

Loss rate: 0.26%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-03-27 08:51:25

End at: 2019-03-27 08:51:55

Local clock offset: 3.392 ms

Remote clock offset: 1.075 ms

Below is generated by plot.py at 2019-03-27 09:58:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 654.22 Mbit/s

95th percentile per-packet one-way delay: 6.909 ms

Loss rate: 0.01%

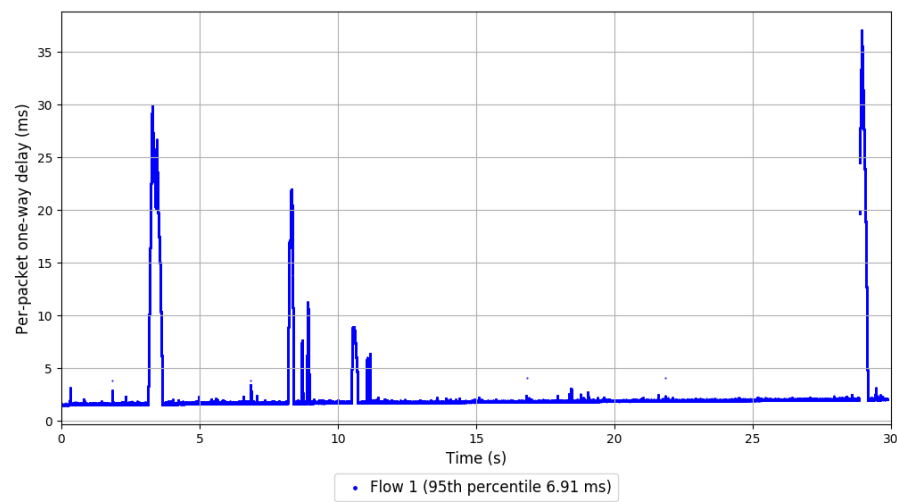
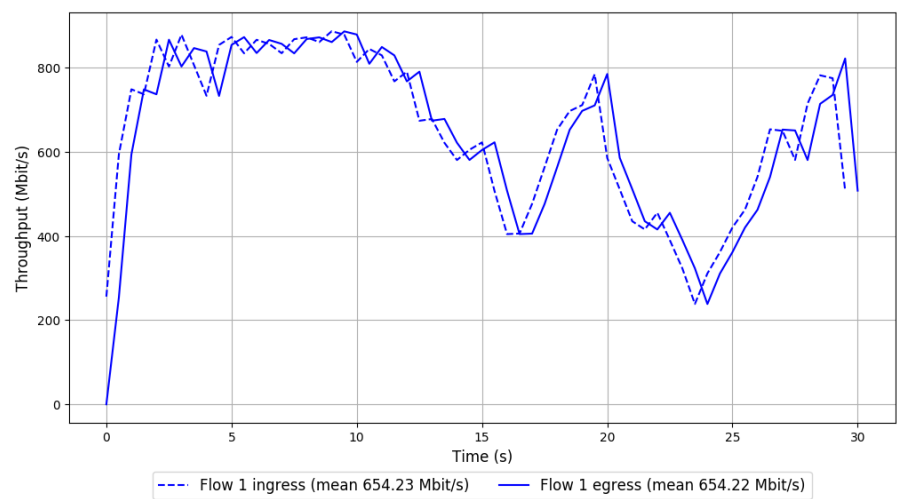
-- Flow 1:

Average throughput: 654.22 Mbit/s

95th percentile per-packet one-way delay: 6.909 ms

Loss rate: 0.01%

Run 5: Report of PCC-Allegro — Data Link

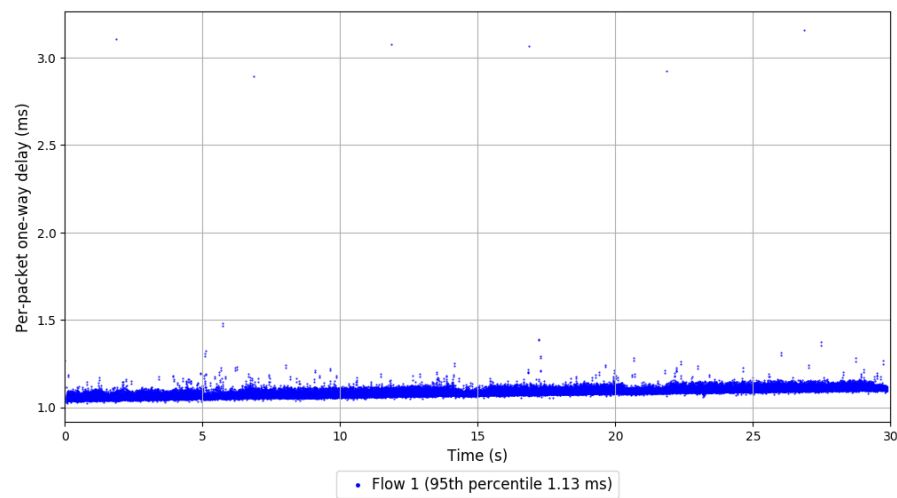
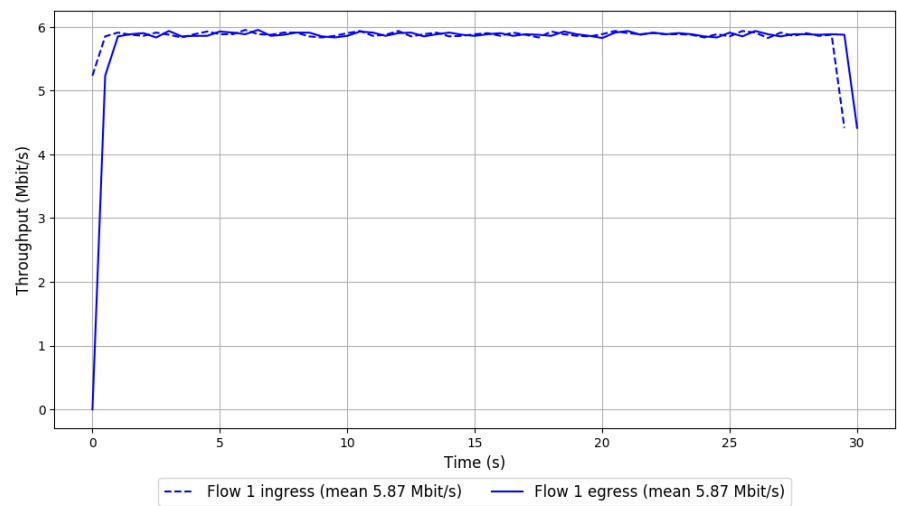



```
Run 1: Statistics of PCC-Expr

Start at: 2019-03-27 06:55:26
End at: 2019-03-27 06:55:56
Local clock offset: -2.321 ms
Remote clock offset: 0.174 ms

# Below is generated by plot.py at 2019-03-27 09:58:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.87 Mbit/s
95th percentile per-packet one-way delay: 1.129 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.87 Mbit/s
95th percentile per-packet one-way delay: 1.129 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-03-27 07:24:58

End at: 2019-03-27 07:25:28

Local clock offset: -4.489 ms

Remote clock offset: 3.94 ms

Below is generated by plot.py at 2019-03-27 09:58:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 332.77 Mbit/s

95th percentile per-packet one-way delay: 1.254 ms

Loss rate: 0.01%

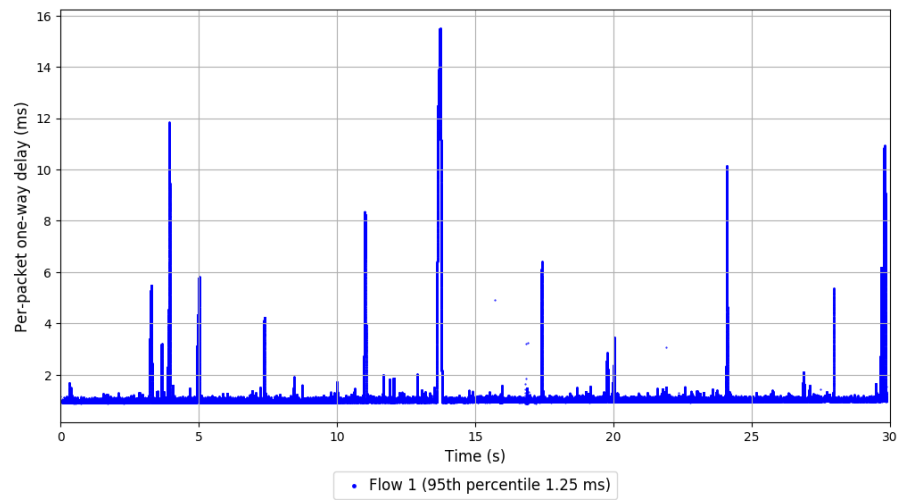
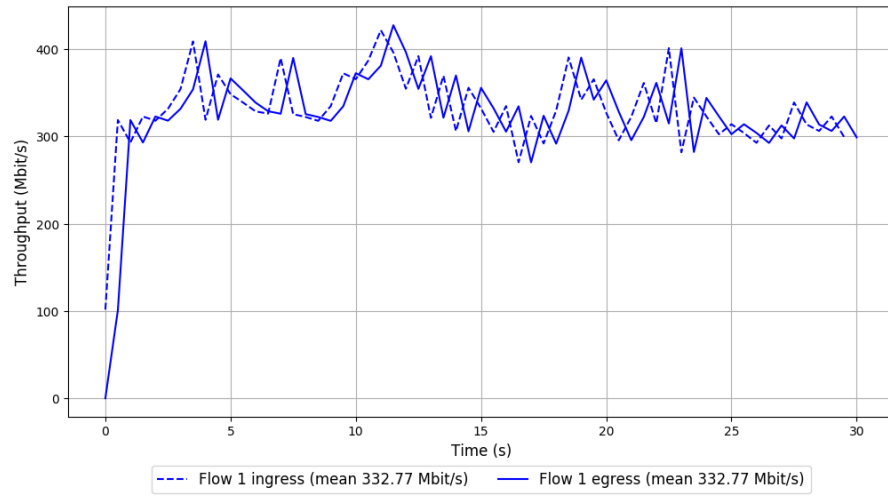
-- Flow 1:

Average throughput: 332.77 Mbit/s

95th percentile per-packet one-way delay: 1.254 ms

Loss rate: 0.01%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-03-27 07:54:48

End at: 2019-03-27 07:55:18

Local clock offset: 0.847 ms

Remote clock offset: 3.478 ms

Below is generated by plot.py at 2019-03-27 09:58:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 323.90 Mbit/s

95th percentile per-packet one-way delay: 0.657 ms

Loss rate: 0.01%

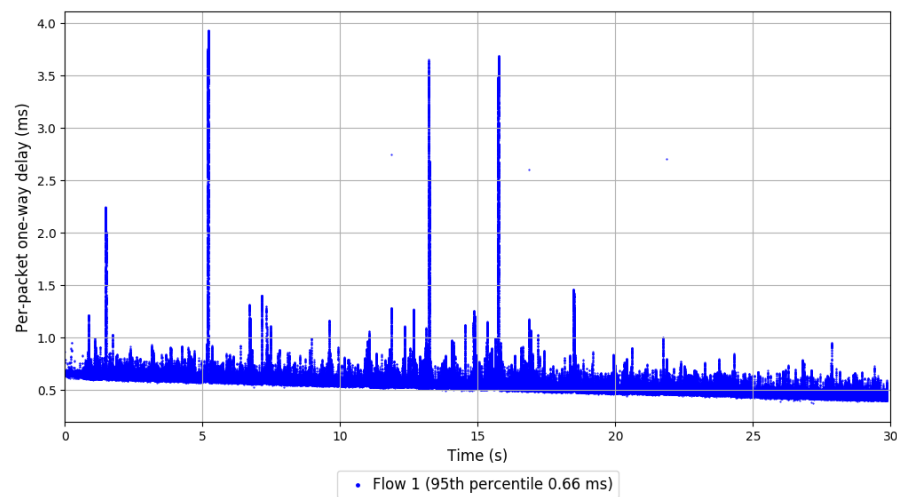
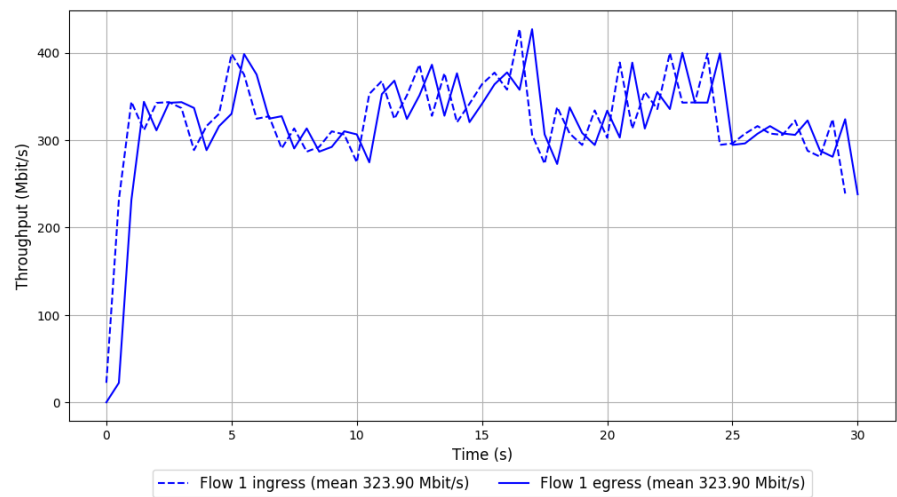
-- Flow 1:

Average throughput: 323.90 Mbit/s

95th percentile per-packet one-way delay: 0.657 ms

Loss rate: 0.01%

Run 3: Report of PCC-Expr — Data Link

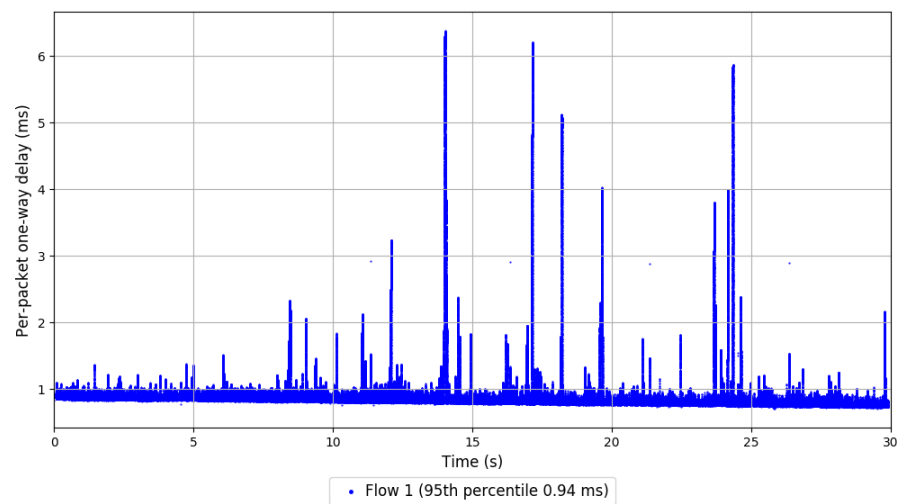
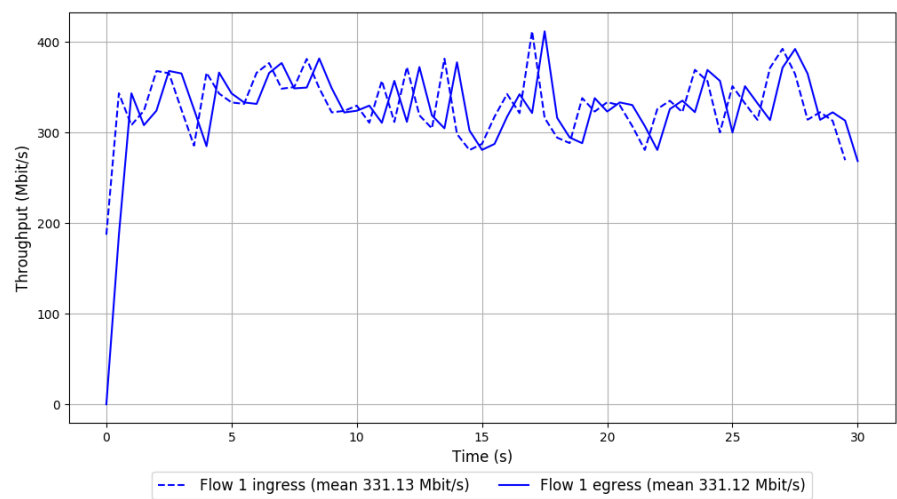


Run 4: Statistics of PCC-Expr

Start at: 2019-03-27 08:24:40
End at: 2019-03-27 08:25:10
Local clock offset: 7.197 ms
Remote clock offset: -0.501 ms

Below is generated by plot.py at 2019-03-27 09:58:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 331.12 Mbit/s
95th percentile per-packet one-way delay: 0.942 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 331.12 Mbit/s
95th percentile per-packet one-way delay: 0.942 ms
Loss rate: 0.01%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-03-27 08:54:31

End at: 2019-03-27 08:55:01

Local clock offset: 0.901 ms

Remote clock offset: 1.584 ms

Below is generated by plot.py at 2019-03-27 10:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 325.83 Mbit/s

95th percentile per-packet one-way delay: 1.722 ms

Loss rate: 0.01%

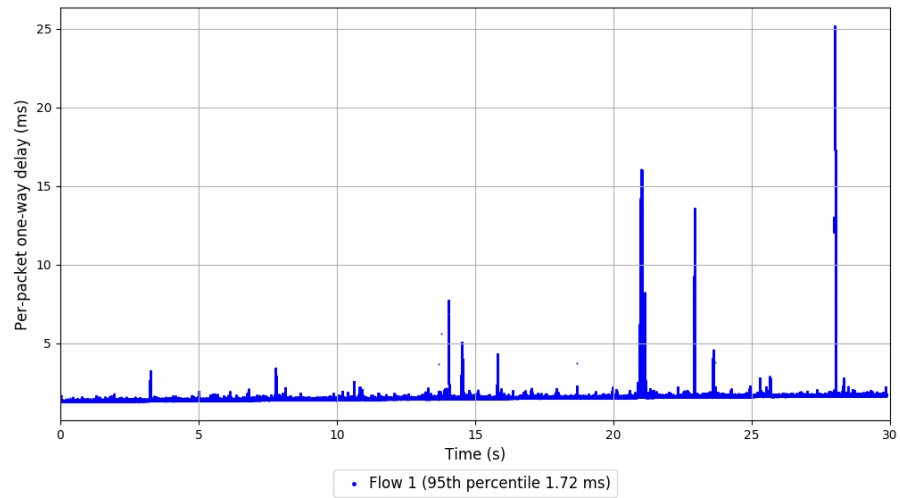
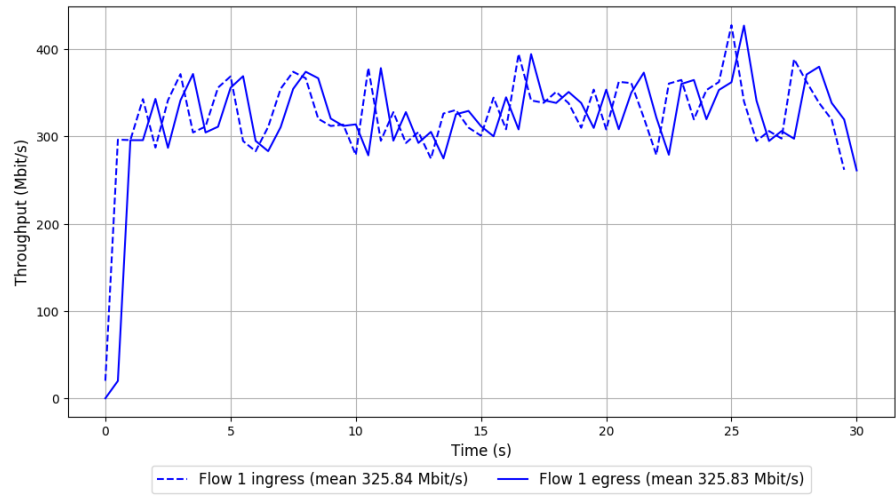
-- Flow 1:

Average throughput: 325.83 Mbit/s

95th percentile per-packet one-way delay: 1.722 ms

Loss rate: 0.01%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-03-27 06:31:07

End at: 2019-03-27 06:31:37

Local clock offset: -0.226 ms

Remote clock offset: 2.396 ms

Below is generated by plot.py at 2019-03-27 10:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.89 Mbit/s

95th percentile per-packet one-way delay: 0.946 ms

Loss rate: 0.01%

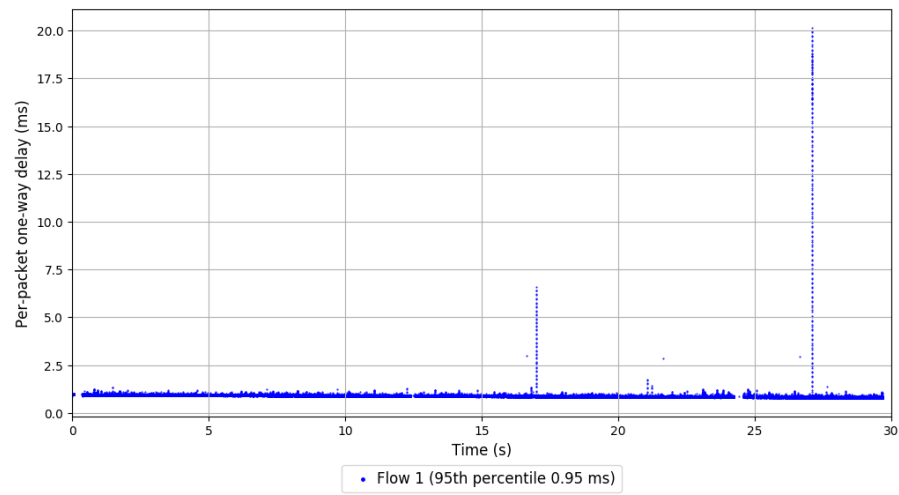
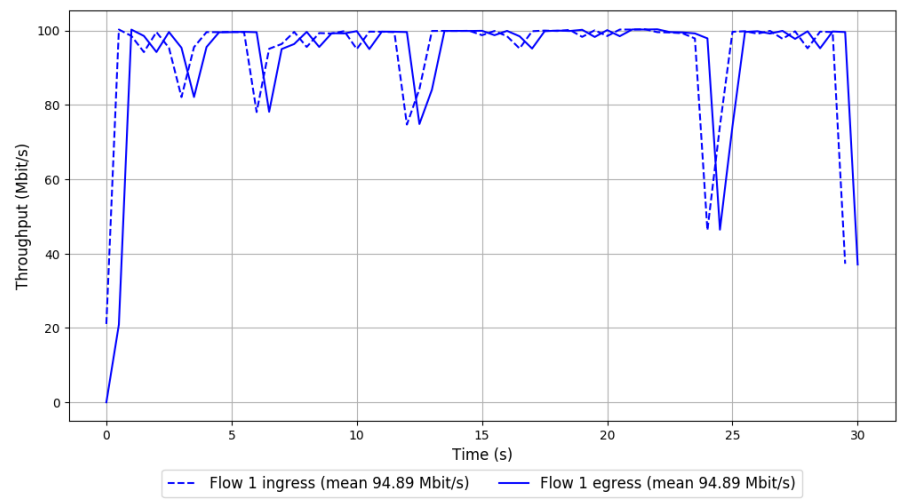
-- Flow 1:

Average throughput: 94.89 Mbit/s

95th percentile per-packet one-way delay: 0.946 ms

Loss rate: 0.01%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-03-27 07:00:39

End at: 2019-03-27 07:01:09

Local clock offset: -2.945 ms

Remote clock offset: 0.401 ms

Below is generated by plot.py at 2019-03-27 10:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.45 Mbit/s

95th percentile per-packet one-way delay: 1.219 ms

Loss rate: 0.01%

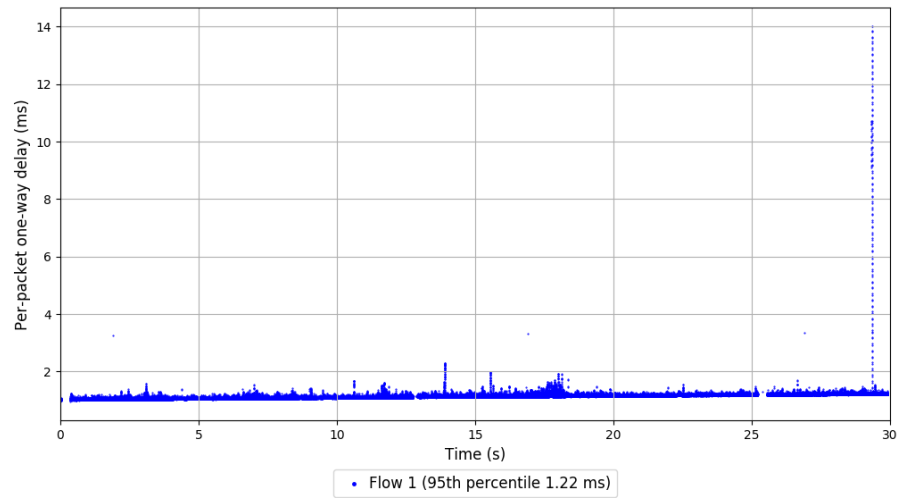
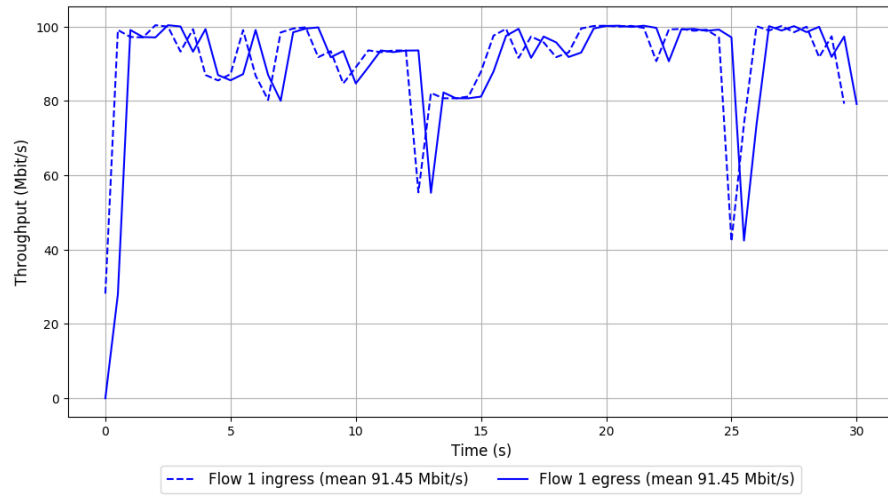
-- Flow 1:

Average throughput: 91.45 Mbit/s

95th percentile per-packet one-way delay: 1.219 ms

Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-03-27 07:30:32

End at: 2019-03-27 07:31:02

Local clock offset: -4.772 ms

Remote clock offset: 4.298 ms

Below is generated by plot.py at 2019-03-27 10:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.03 Mbit/s

95th percentile per-packet one-way delay: 1.001 ms

Loss rate: 0.01%

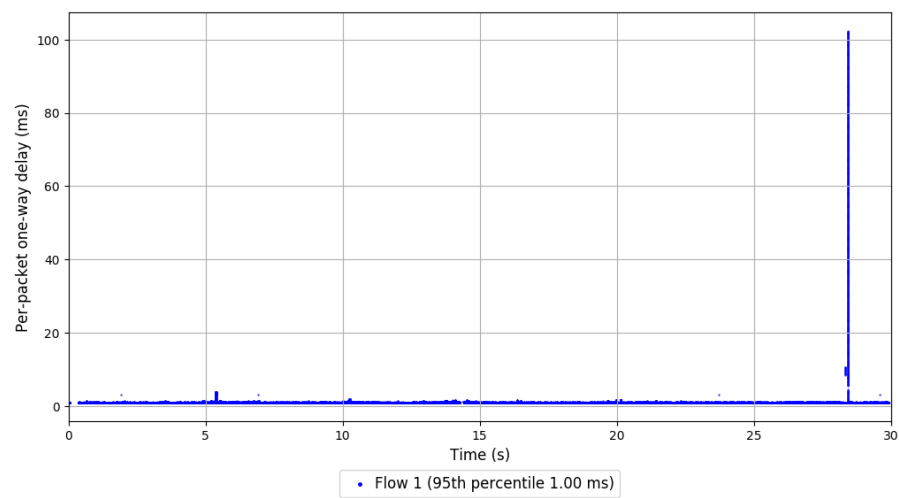
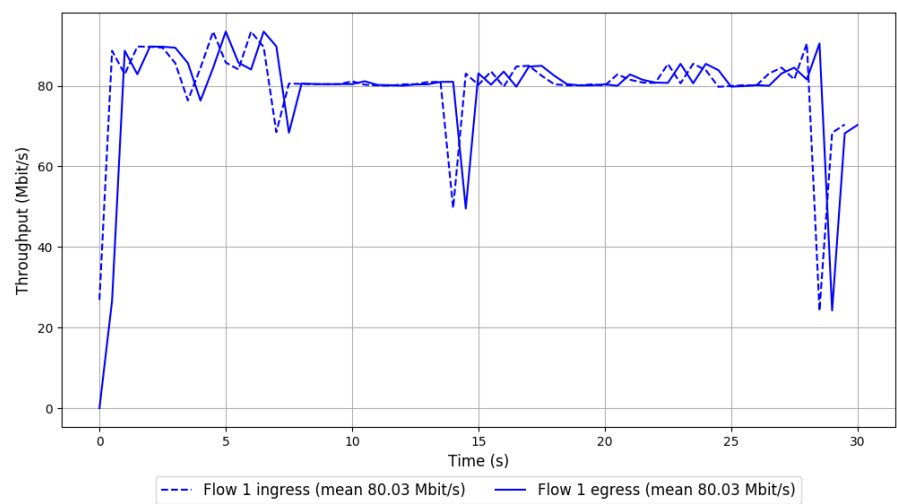
-- Flow 1:

Average throughput: 80.03 Mbit/s

95th percentile per-packet one-way delay: 1.001 ms

Loss rate: 0.01%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-03-27 08:00:23

End at: 2019-03-27 08:00:53

Local clock offset: 2.958 ms

Remote clock offset: 3.457 ms

Below is generated by plot.py at 2019-03-27 10:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.56 Mbit/s

95th percentile per-packet one-way delay: 0.845 ms

Loss rate: 0.01%

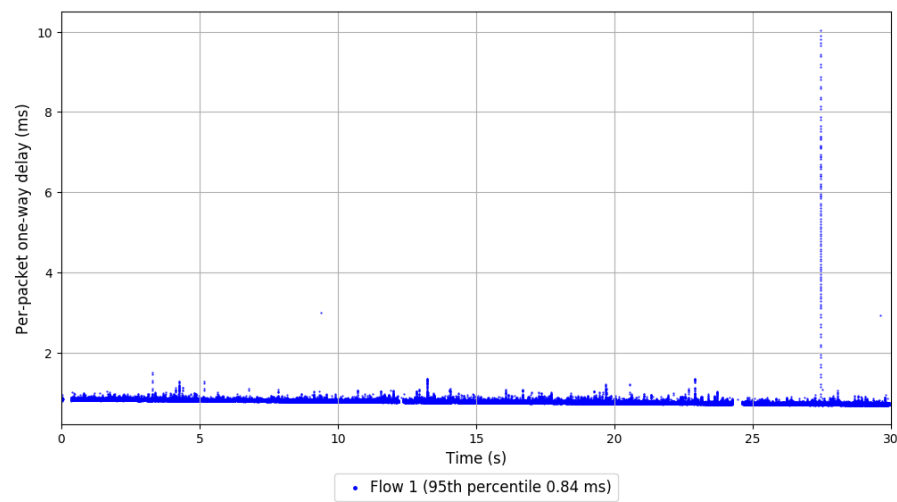
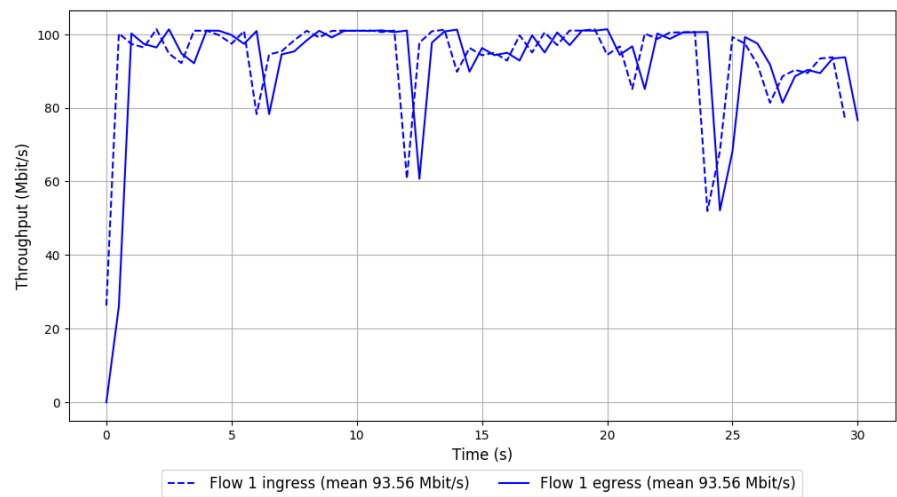
-- Flow 1:

Average throughput: 93.56 Mbit/s

95th percentile per-packet one-way delay: 0.845 ms

Loss rate: 0.01%

Run 4: Report of QUIC Cubic — Data Link

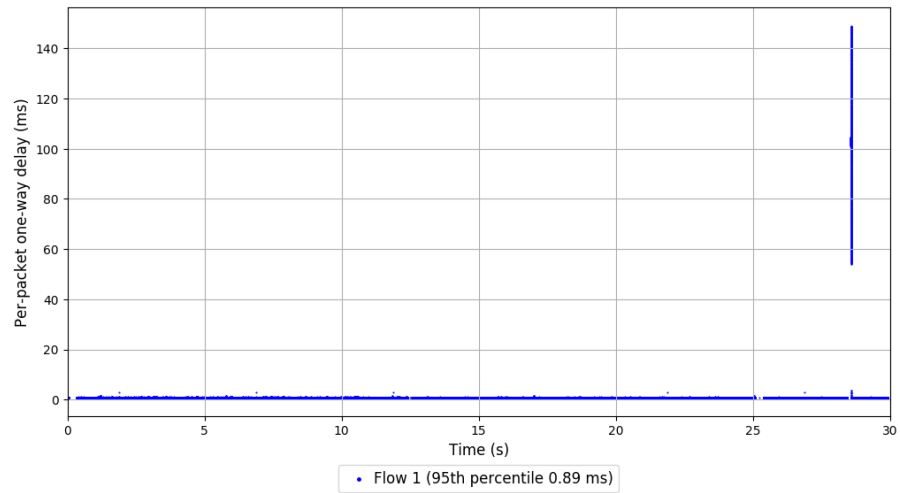
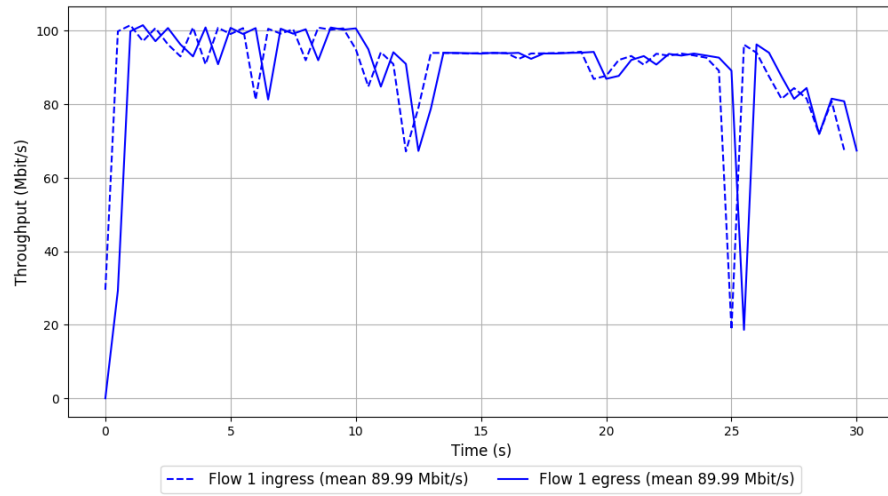


Run 5: Statistics of QUIC Cubic

Start at: 2019-03-27 08:30:11
End at: 2019-03-27 08:30:41
Local clock offset: 7.88 ms
Remote clock offset: -1.065 ms

Below is generated by plot.py at 2019-03-27 10:01:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.99 Mbit/s
95th percentile per-packet one-way delay: 0.893 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 89.99 Mbit/s
95th percentile per-packet one-way delay: 0.893 ms
Loss rate: 0.01%

Run 5: Report of QUIC Cubic — Data Link

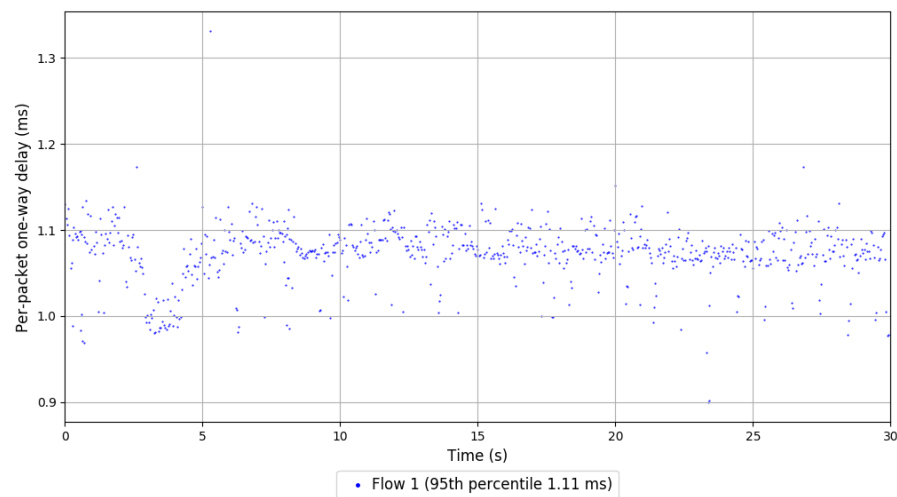
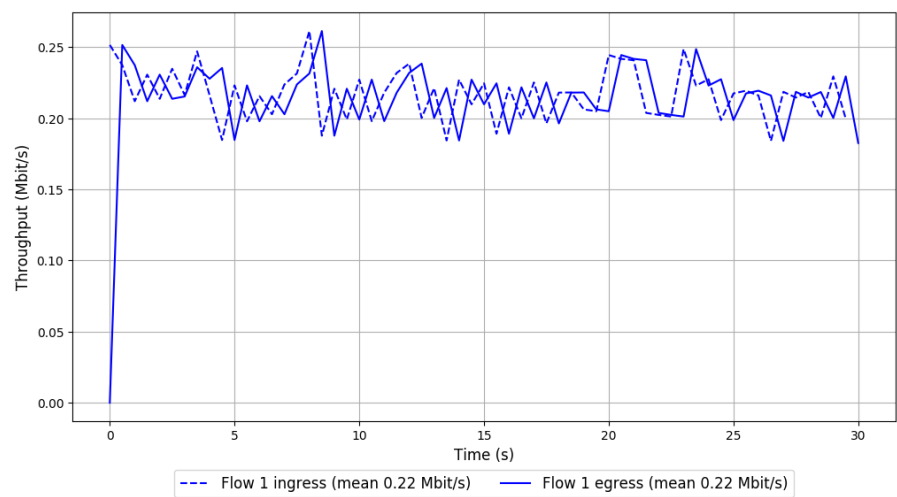


```
Run 1: Statistics of SCReAM

Start at: 2019-03-27 06:44:10
End at: 2019-03-27 06:44:40
Local clock offset: -0.398 ms
Remote clock offset: 0.426 ms

# Below is generated by plot.py at 2019-03-27 10:01:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.115 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.115 ms
Loss rate: 0.13%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-03-27 07:13:39

End at: 2019-03-27 07:14:09

Local clock offset: -3.864 ms

Remote clock offset: 2.892 ms

Below is generated by plot.py at 2019-03-27 10:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.250 ms

Loss rate: 0.13%

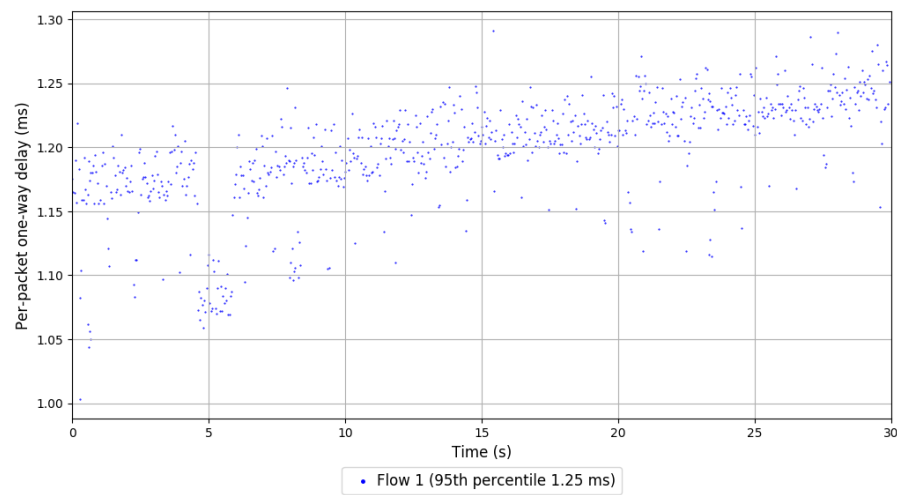
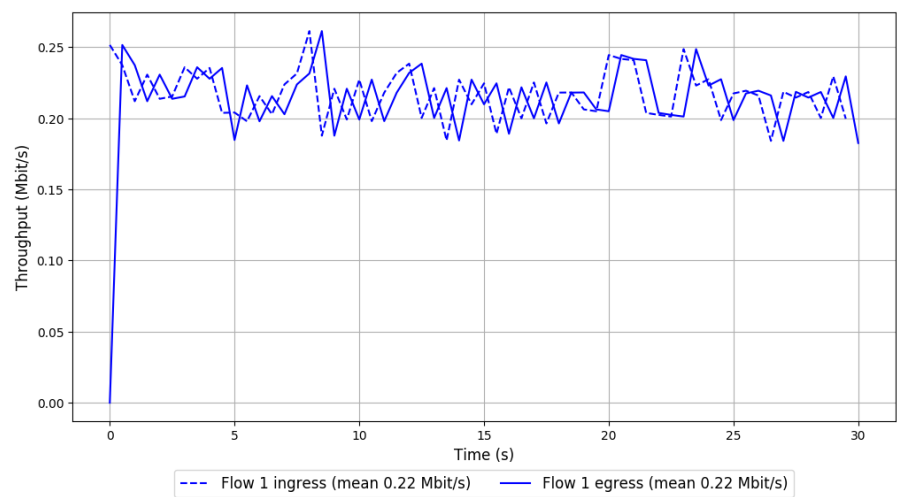
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.250 ms

Loss rate: 0.13%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-03-27 07:43:35

End at: 2019-03-27 07:44:05

Local clock offset: -5.4 ms

Remote clock offset: 3.551 ms

Below is generated by plot.py at 2019-03-27 10:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.158 ms

Loss rate: 0.00%

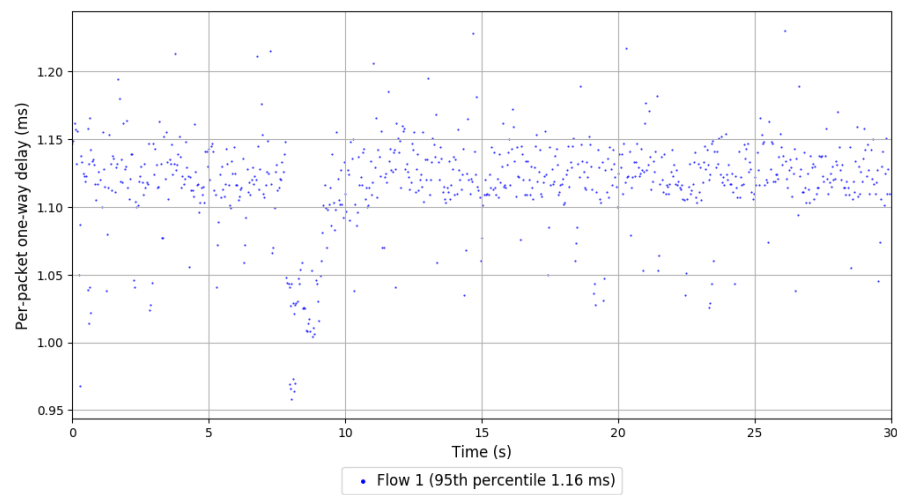
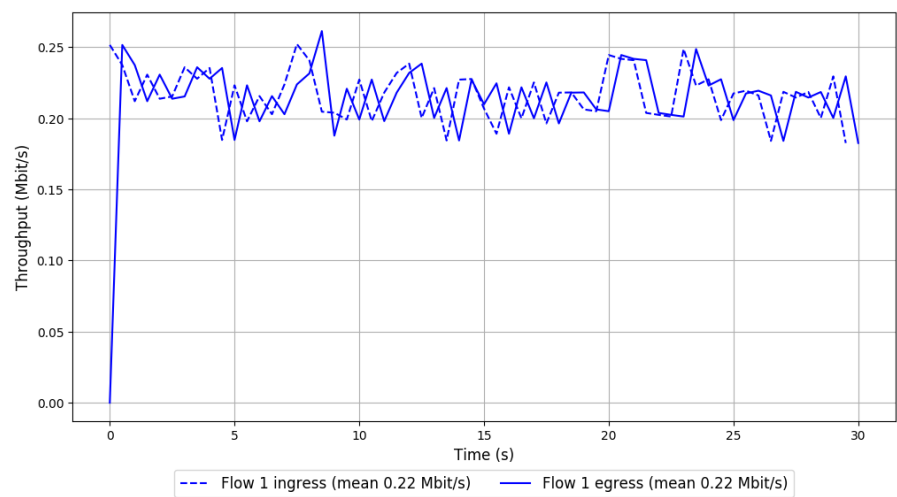
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.158 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-03-27 08:13:23

End at: 2019-03-27 08:13:53

Local clock offset: 5.679 ms

Remote clock offset: 1.663 ms

Below is generated by plot.py at 2019-03-27 10:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.979 ms

Loss rate: 0.00%

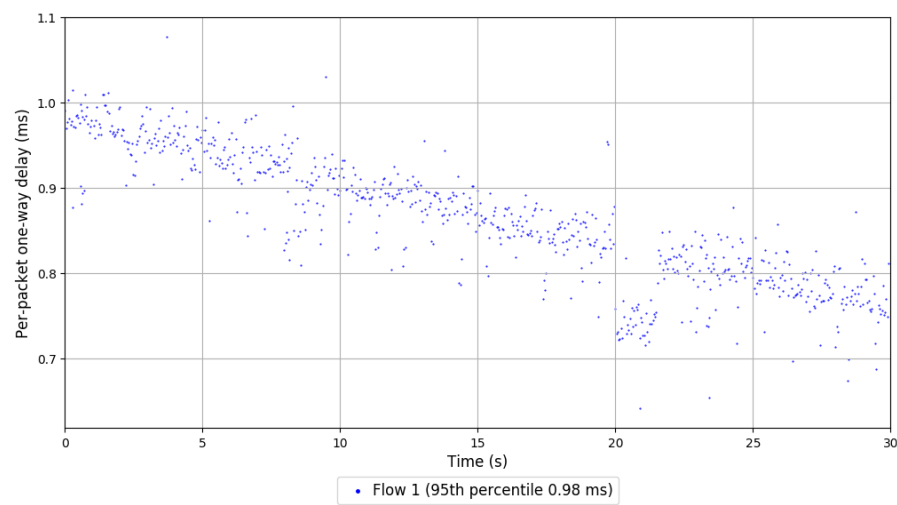
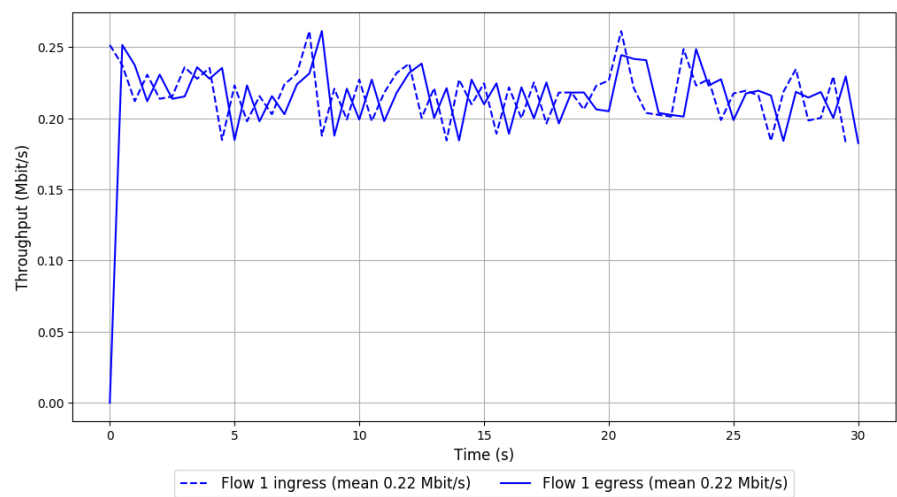
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.979 ms

Loss rate: 0.00%

Run 4: Report of SCRaM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-03-27 08:43:15

End at: 2019-03-27 08:43:45

Local clock offset: 9.378 ms

Remote clock offset: -1.53 ms

Below is generated by plot.py at 2019-03-27 10:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.221 ms

Loss rate: 0.00%

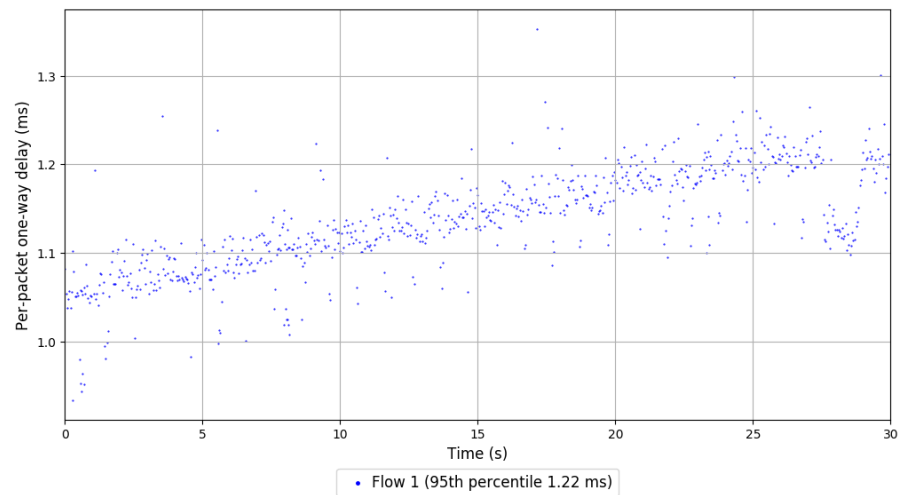
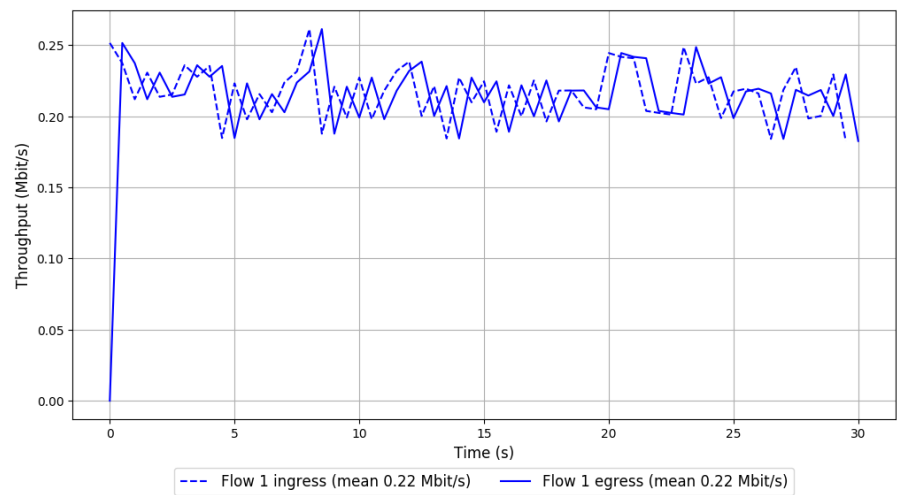
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.221 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-03-27 06:48:06

End at: 2019-03-27 06:48:36

Local clock offset: -0.962 ms

Remote clock offset: 0.348 ms

Below is generated by plot.py at 2019-03-27 10:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.23 Mbit/s

95th percentile per-packet one-way delay: 1.177 ms

Loss rate: 0.01%

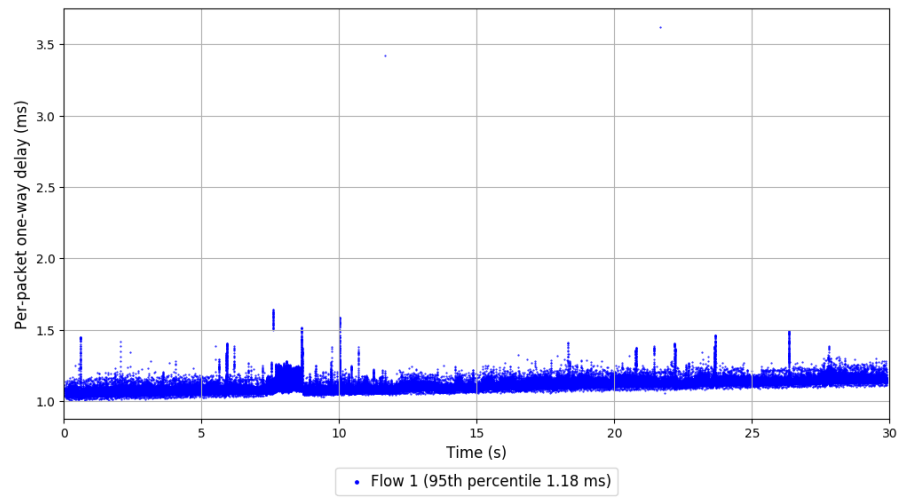
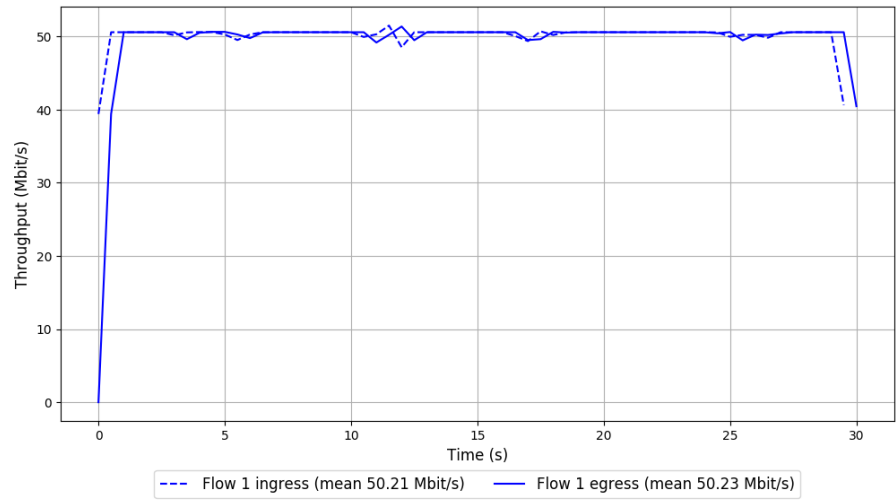
-- Flow 1:

Average throughput: 50.23 Mbit/s

95th percentile per-packet one-way delay: 1.177 ms

Loss rate: 0.01%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-03-27 07:17:34

End at: 2019-03-27 07:18:04

Local clock offset: -4.093 ms

Remote clock offset: 3.322 ms

Below is generated by plot.py at 2019-03-27 10:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.21 Mbit/s

95th percentile per-packet one-way delay: 1.153 ms

Loss rate: 0.00%

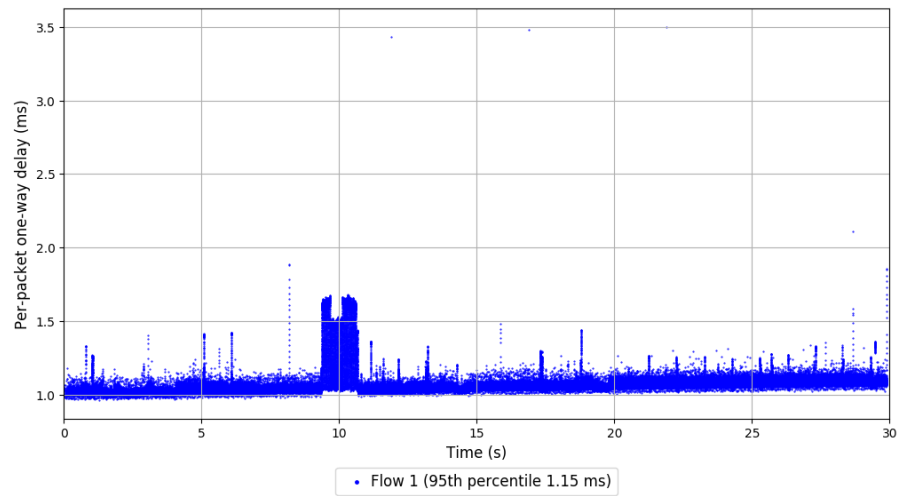
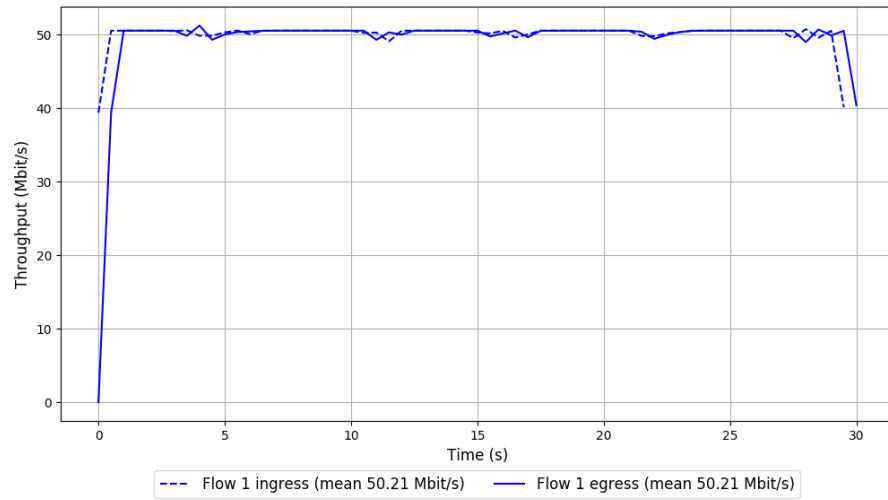
-- Flow 1:

Average throughput: 50.21 Mbit/s

95th percentile per-packet one-way delay: 1.153 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-03-27 07:47:31

End at: 2019-03-27 07:48:01

Local clock offset: -4.052 ms

Remote clock offset: 3.492 ms

Below is generated by plot.py at 2019-03-27 10:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.25 Mbit/s

95th percentile per-packet one-way delay: 0.450 ms

Loss rate: 0.00%

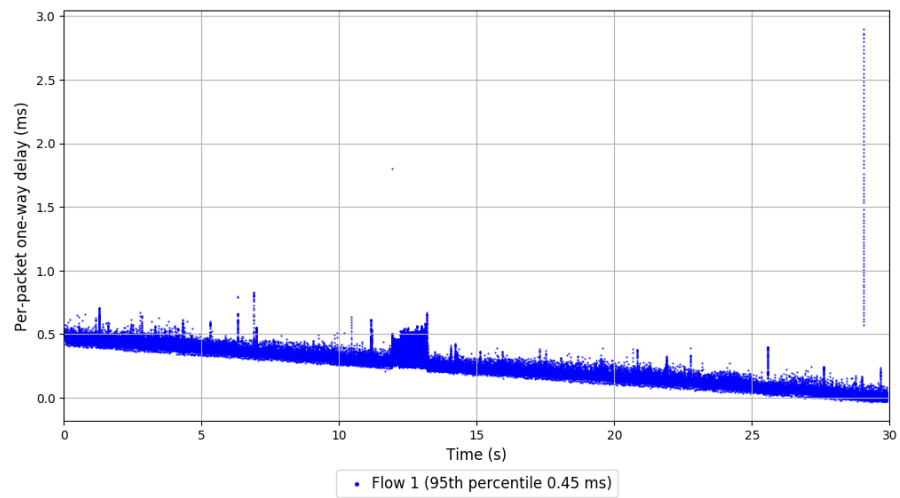
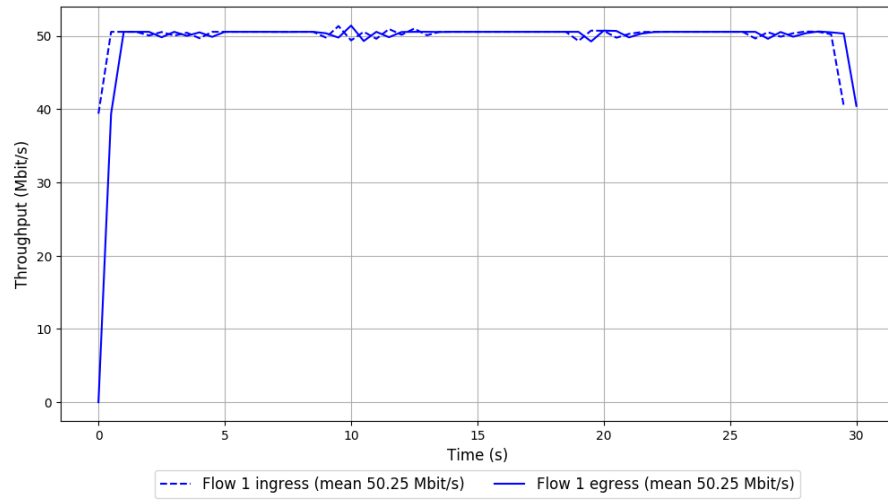
-- Flow 1:

Average throughput: 50.25 Mbit/s

95th percentile per-packet one-way delay: 0.450 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-03-27 08:17:18

End at: 2019-03-27 08:17:48

Local clock offset: 6.253 ms

Remote clock offset: 0.675 ms

Below is generated by plot.py at 2019-03-27 10:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.20 Mbit/s

95th percentile per-packet one-way delay: 0.931 ms

Loss rate: 0.00%

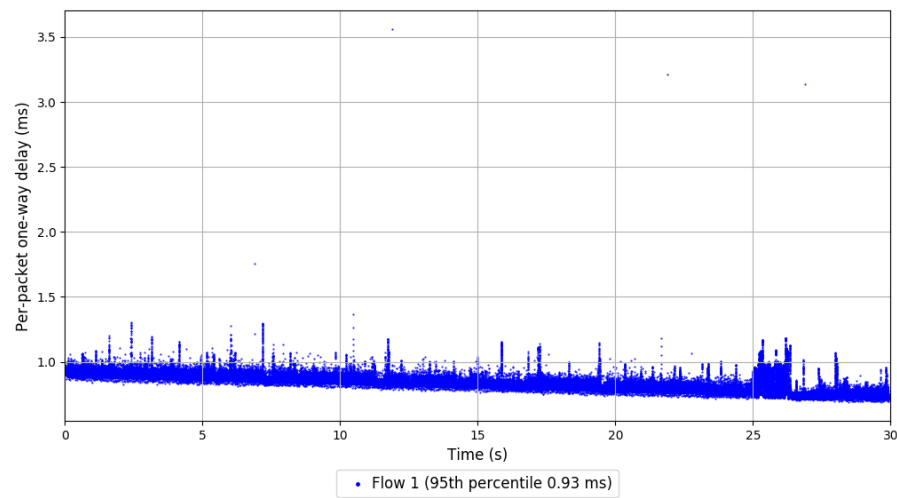
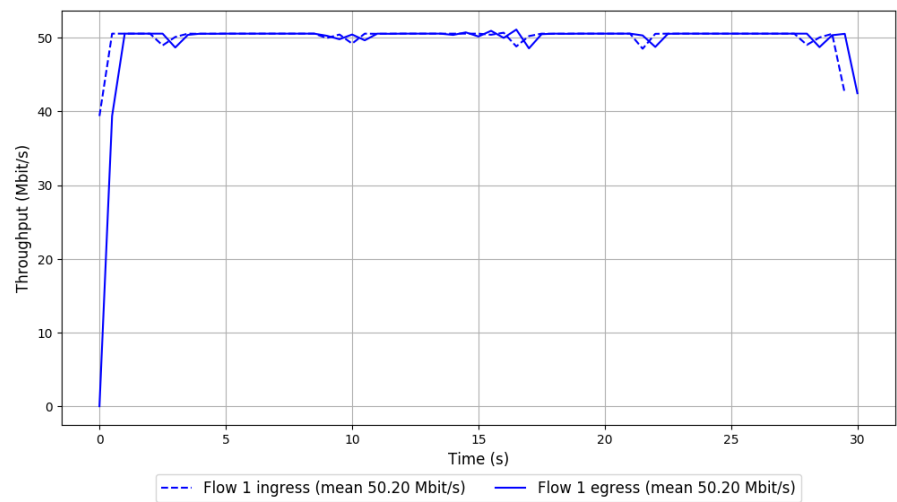
-- Flow 1:

Average throughput: 50.20 Mbit/s

95th percentile per-packet one-way delay: 0.931 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-03-27 08:47:11

End at: 2019-03-27 08:47:41

Local clock offset: 8.031 ms

Remote clock offset: 0.11 ms

Below is generated by plot.py at 2019-03-27 10:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.22 Mbit/s

95th percentile per-packet one-way delay: 2.426 ms

Loss rate: 0.00%

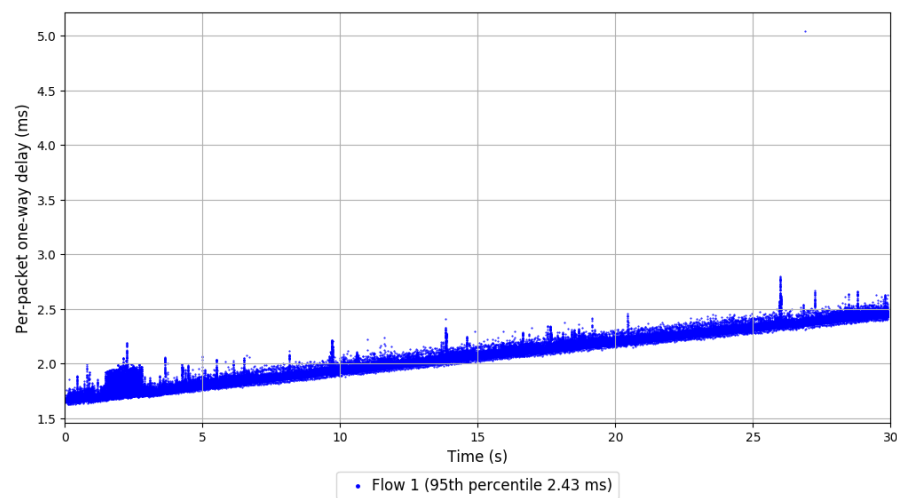
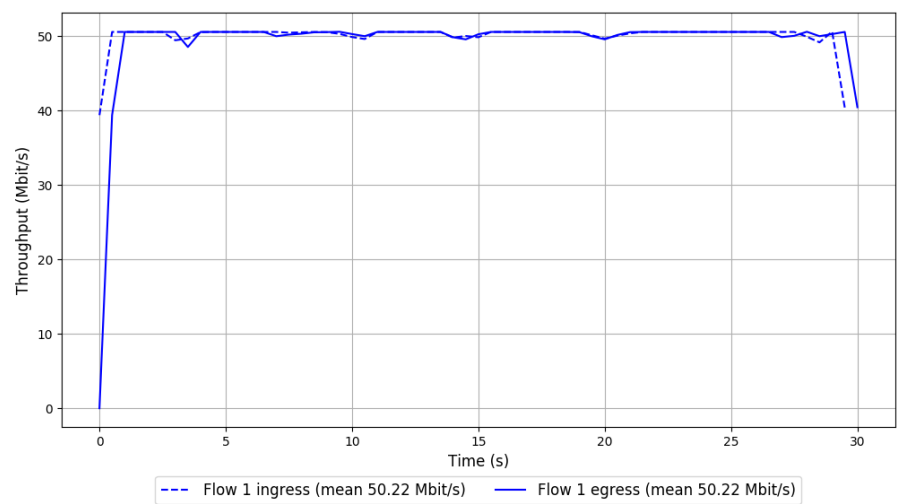
-- Flow 1:

Average throughput: 50.22 Mbit/s

95th percentile per-packet one-way delay: 2.426 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

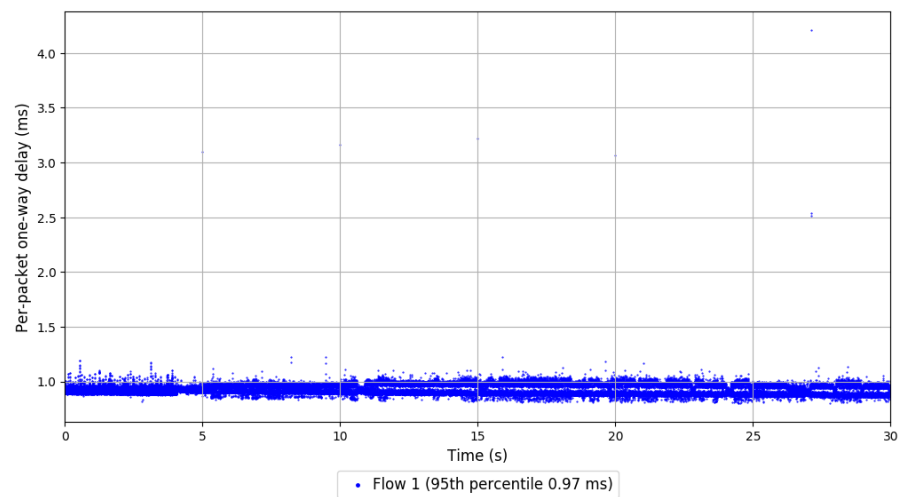
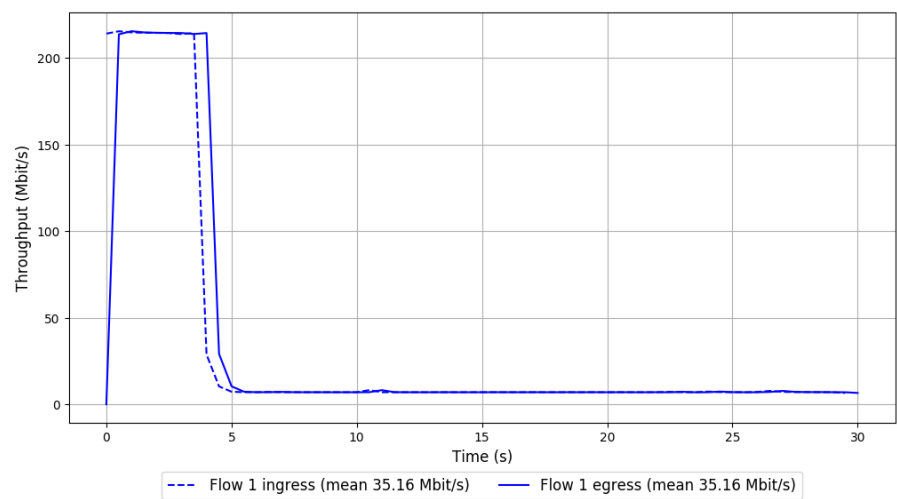



```
Run 1: Statistics of TaoVA-100x

Start at: 2019-03-27 06:39:40
End at: 2019-03-27 06:40:10
Local clock offset: -0.319 ms
Remote clock offset: 0.844 ms

# Below is generated by plot.py at 2019-03-27 10:01:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.16 Mbit/s
95th percentile per-packet one-way delay: 0.966 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 35.16 Mbit/s
95th percentile per-packet one-way delay: 0.966 ms
Loss rate: 0.00%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-03-27 07:09:12

End at: 2019-03-27 07:09:42

Local clock offset: -3.579 ms

Remote clock offset: 2.338 ms

Below is generated by plot.py at 2019-03-27 10:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.27 Mbit/s

95th percentile per-packet one-way delay: 1.161 ms

Loss rate: 0.00%

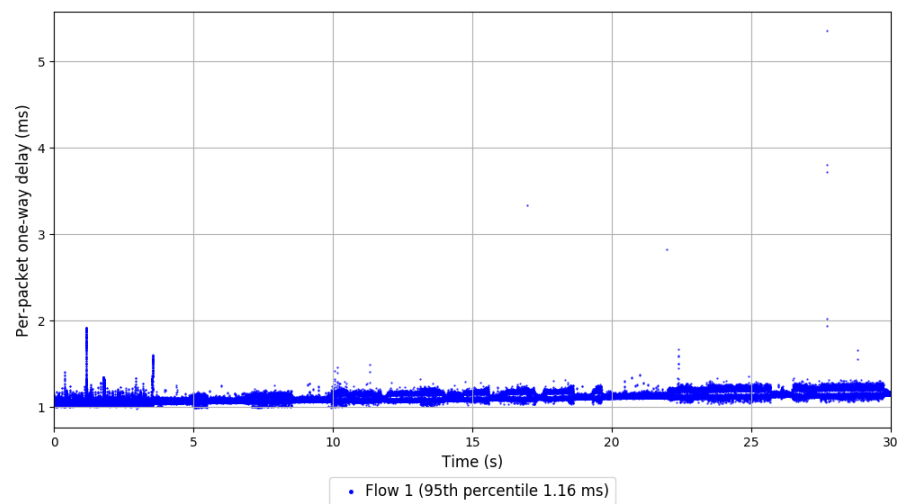
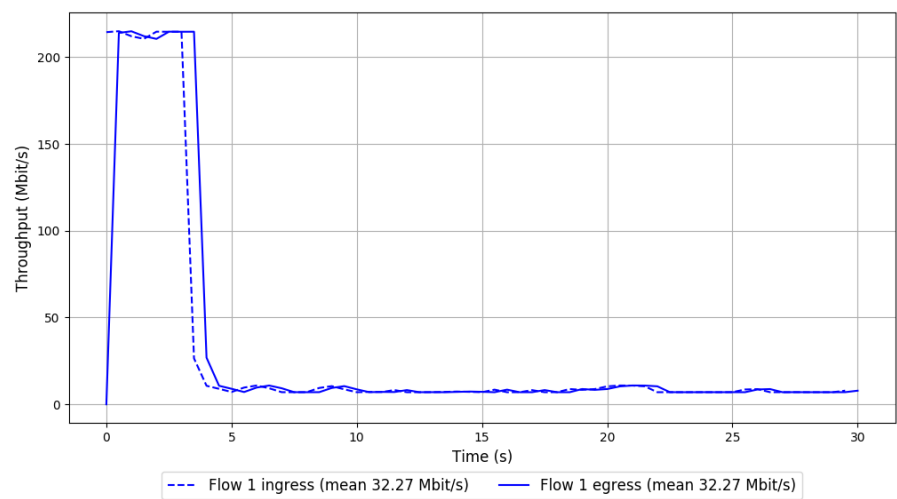
-- Flow 1:

Average throughput: 32.27 Mbit/s

95th percentile per-packet one-way delay: 1.161 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-03-27 07:39:04

End at: 2019-03-27 07:39:34

Local clock offset: -5.197 ms

Remote clock offset: 3.906 ms

Below is generated by plot.py at 2019-03-27 10:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.39 Mbit/s

95th percentile per-packet one-way delay: 0.925 ms

Loss rate: 0.01%

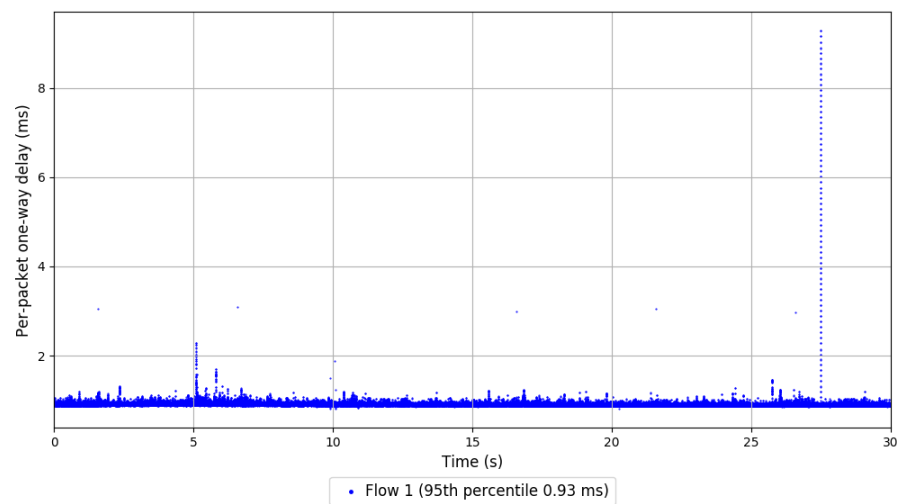
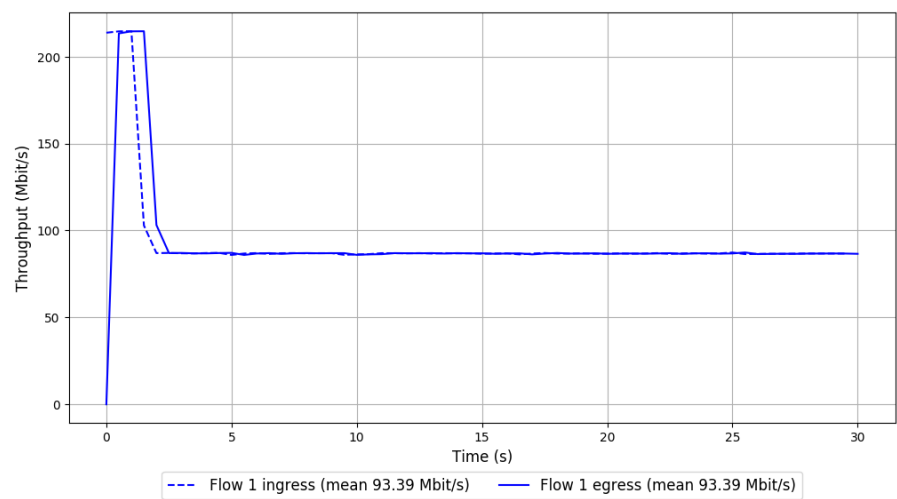
-- Flow 1:

Average throughput: 93.39 Mbit/s

95th percentile per-packet one-way delay: 0.925 ms

Loss rate: 0.01%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-03-27 08:08:55

End at: 2019-03-27 08:09:25

Local clock offset: 4.95 ms

Remote clock offset: 3.481 ms

Below is generated by plot.py at 2019-03-27 10:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.87 Mbit/s

95th percentile per-packet one-way delay: 0.751 ms

Loss rate: 0.00%

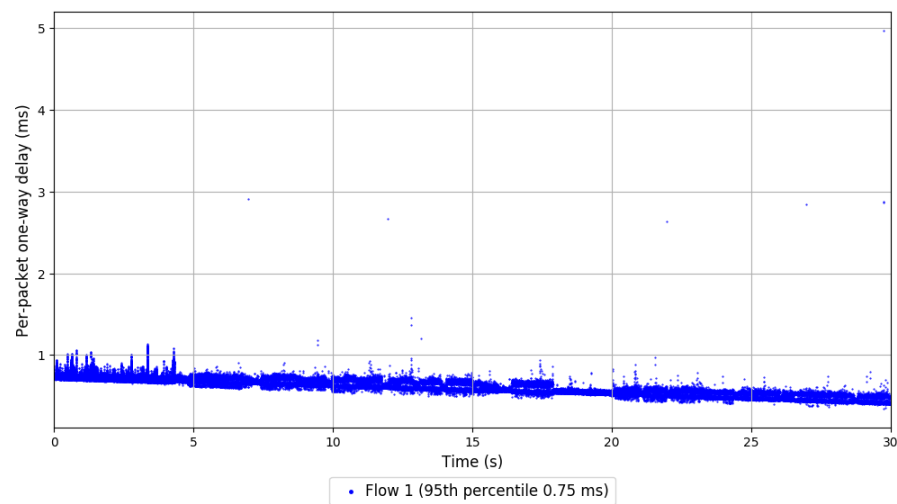
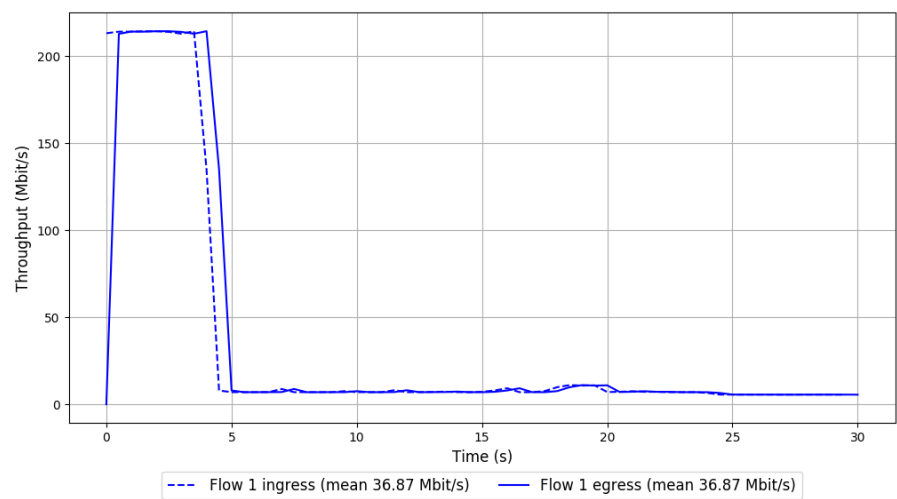
-- Flow 1:

Average throughput: 36.87 Mbit/s

95th percentile per-packet one-way delay: 0.751 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-03-27 08:38:44

End at: 2019-03-27 08:39:14

Local clock offset: 8.879 ms

Remote clock offset: -1.751 ms

Below is generated by plot.py at 2019-03-27 10:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.39 Mbit/s

95th percentile per-packet one-way delay: 0.952 ms

Loss rate: 0.01%

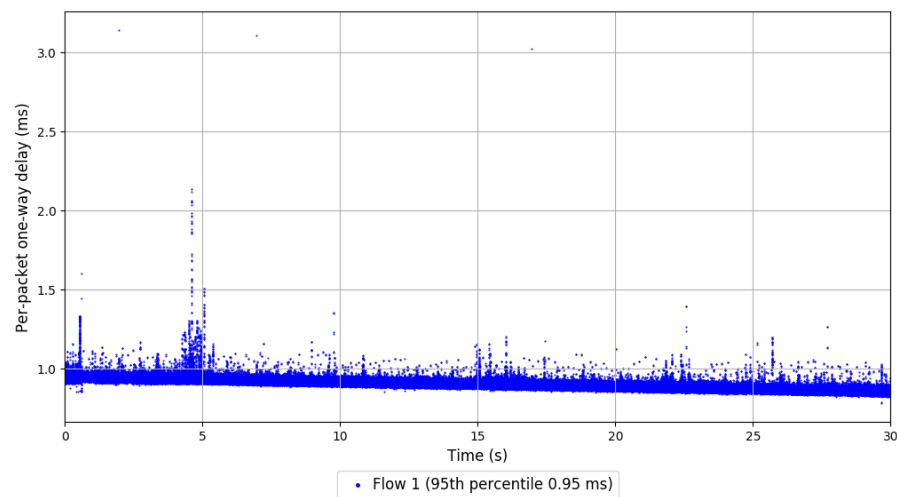
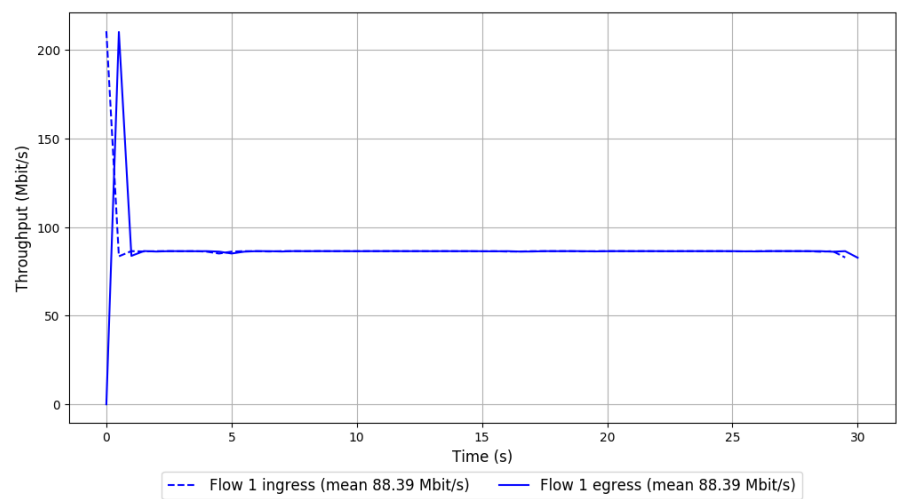
-- Flow 1:

Average throughput: 88.39 Mbit/s

95th percentile per-packet one-way delay: 0.952 ms

Loss rate: 0.01%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-03-27 06:56:40

End at: 2019-03-27 06:57:10

Local clock offset: -2.479 ms

Remote clock offset: 0.214 ms

Below is generated by plot.py at 2019-03-27 10:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.14 Mbit/s

95th percentile per-packet one-way delay: 1.441 ms

Loss rate: 0.00%

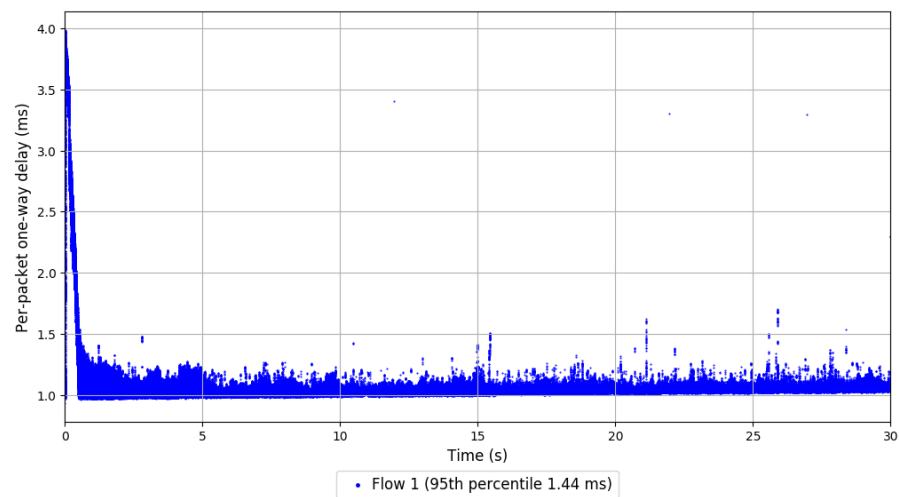
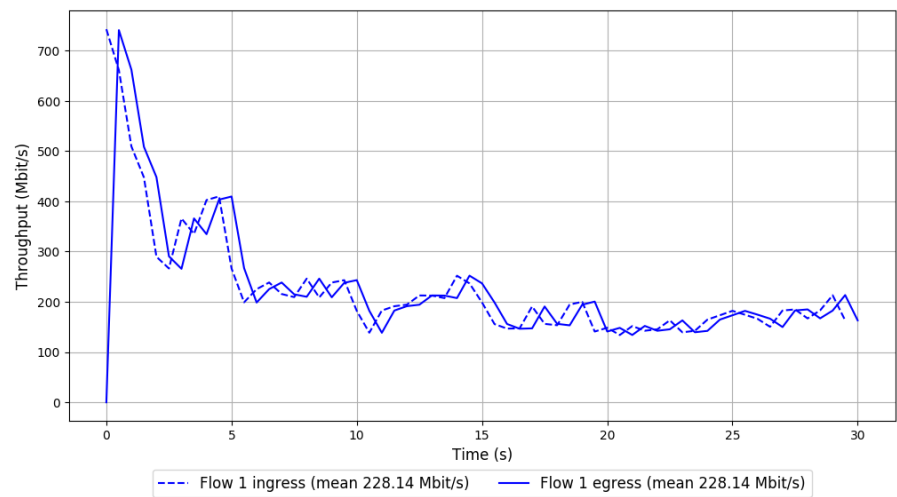
-- Flow 1:

Average throughput: 228.14 Mbit/s

95th percentile per-packet one-way delay: 1.441 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-03-27 07:26:31

End at: 2019-03-27 07:27:01

Local clock offset: -4.568 ms

Remote clock offset: 3.962 ms

Below is generated by plot.py at 2019-03-27 10:02:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 283.03 Mbit/s

95th percentile per-packet one-way delay: 1.317 ms

Loss rate: 0.01%

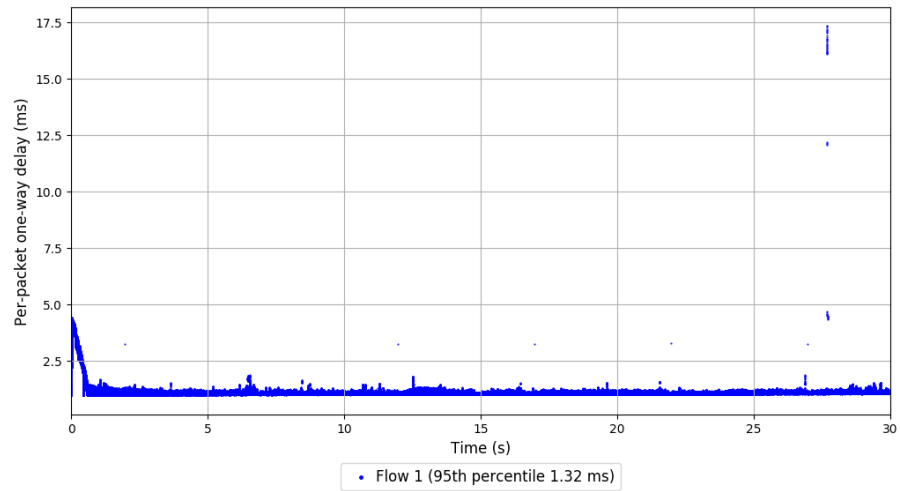
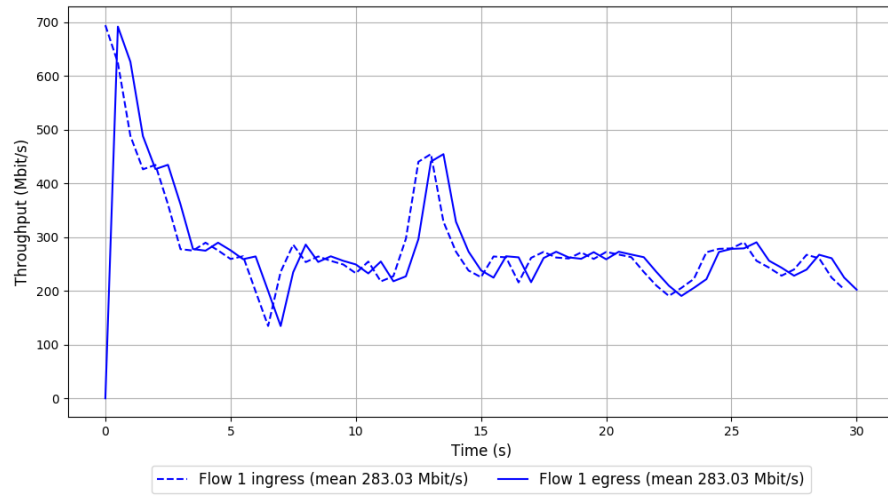
-- Flow 1:

Average throughput: 283.03 Mbit/s

95th percentile per-packet one-way delay: 1.317 ms

Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-03-27 07:56:20

End at: 2019-03-27 07:56:50

Local clock offset: 1.524 ms

Remote clock offset: 3.528 ms

Below is generated by plot.py at 2019-03-27 10:02:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 244.26 Mbit/s

95th percentile per-packet one-way delay: 1.132 ms

Loss rate: 0.01%

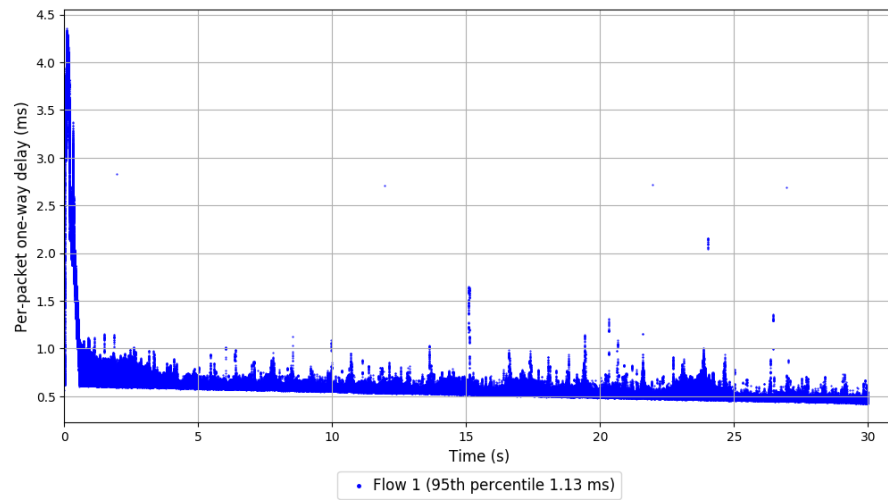
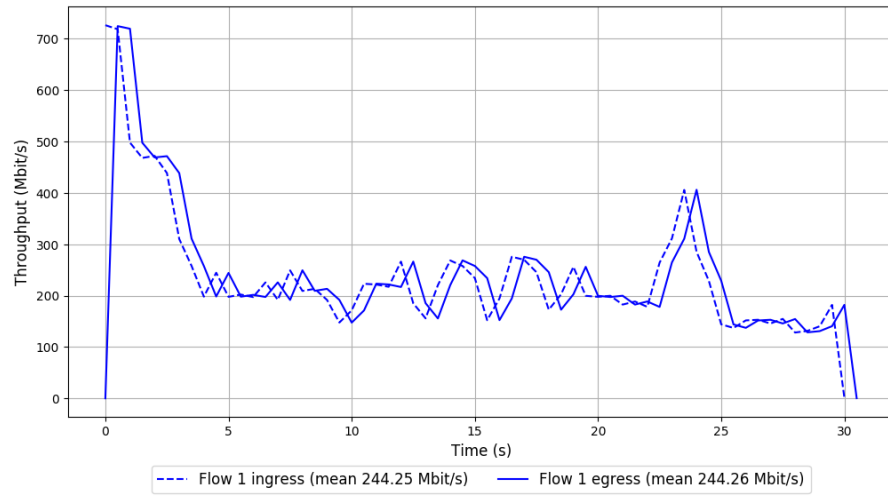
-- Flow 1:

Average throughput: 244.26 Mbit/s

95th percentile per-packet one-way delay: 1.132 ms

Loss rate: 0.01%

Run 3: Report of TCP Vegas — Data Link

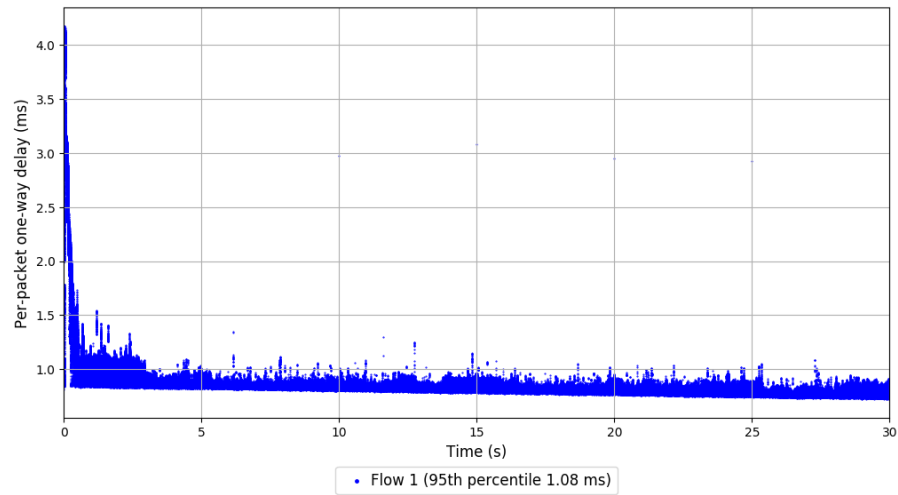
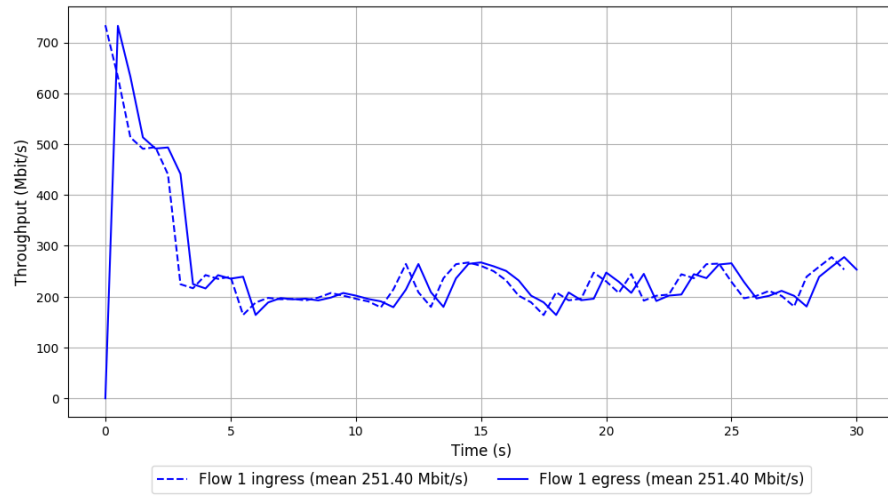


Run 4: Statistics of TCP Vegas

Start at: 2019-03-27 08:26:13
End at: 2019-03-27 08:26:43
Local clock offset: 7.399 ms
Remote clock offset: -0.651 ms

Below is generated by plot.py at 2019-03-27 10:02:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 251.40 Mbit/s
95th percentile per-packet one-way delay: 1.077 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 251.40 Mbit/s
95th percentile per-packet one-way delay: 1.077 ms
Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-03-27 08:56:04

End at: 2019-03-27 08:56:34

Local clock offset: 0.001 ms

Remote clock offset: 1.805 ms

Below is generated by plot.py at 2019-03-27 10:03:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 294.50 Mbit/s

95th percentile per-packet one-way delay: 1.690 ms

Loss rate: 0.01%

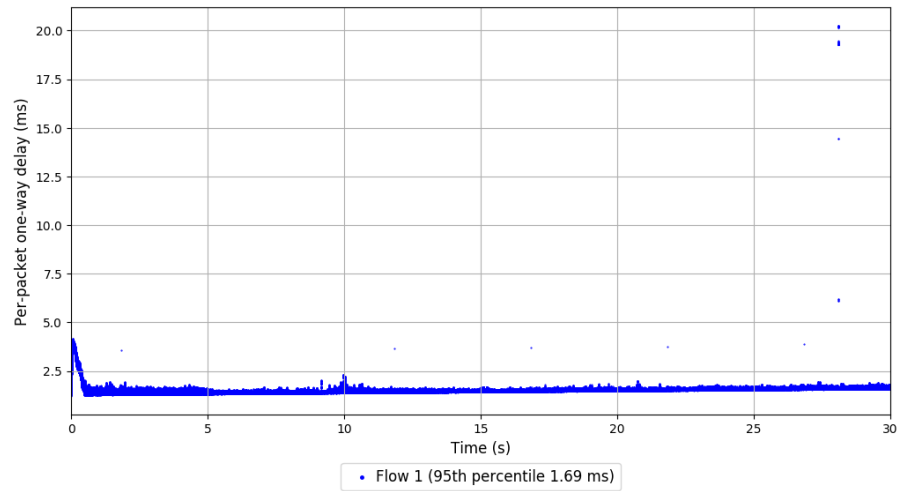
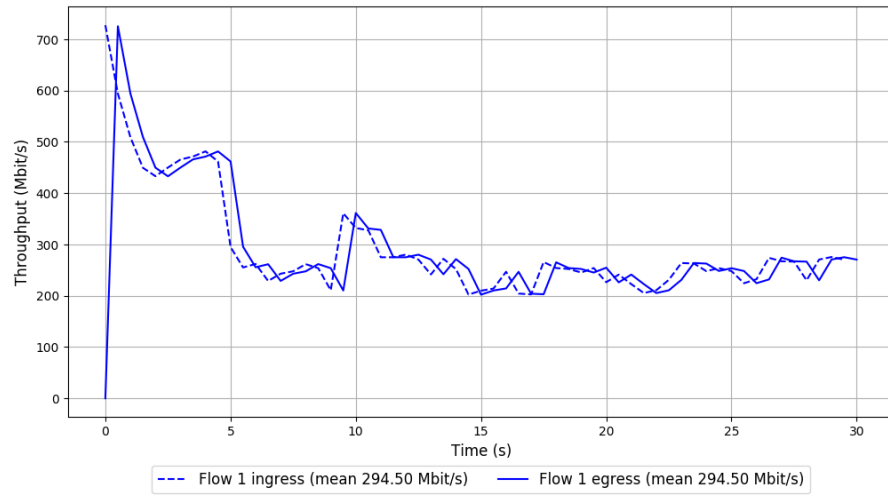
-- Flow 1:

Average throughput: 294.50 Mbit/s

95th percentile per-packet one-way delay: 1.690 ms

Loss rate: 0.01%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-03-27 06:46:39

End at: 2019-03-27 06:47:09

Local clock offset: -0.582 ms

Remote clock offset: 0.326 ms

Below is generated by plot.py at 2019-03-27 10:04:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 305.86 Mbit/s

95th percentile per-packet one-way delay: 2.888 ms

Loss rate: 0.01%

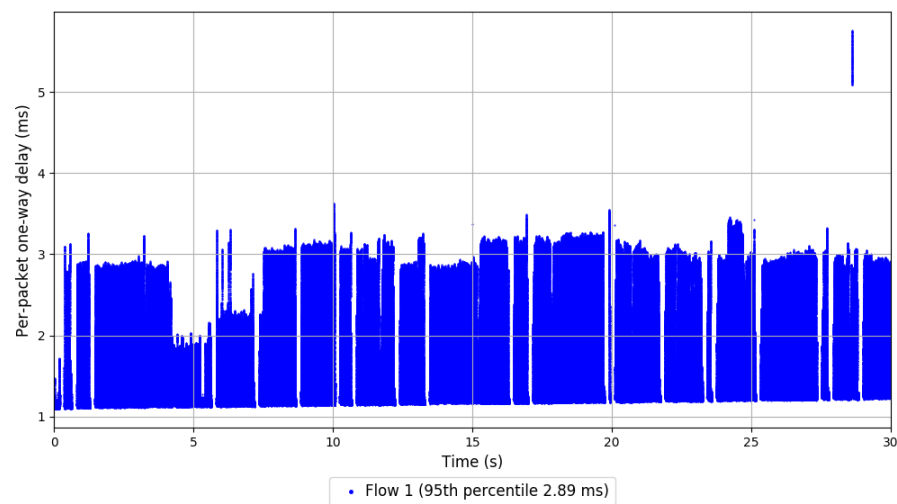
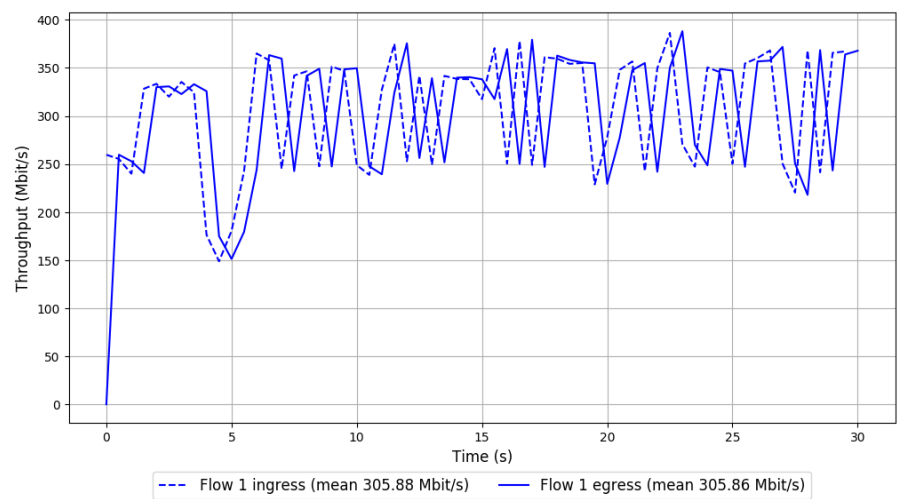
-- Flow 1:

Average throughput: 305.86 Mbit/s

95th percentile per-packet one-way delay: 2.888 ms

Loss rate: 0.01%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-03-27 07:16:08

End at: 2019-03-27 07:16:38

Local clock offset: -4.007 ms

Remote clock offset: 3.132 ms

Below is generated by plot.py at 2019-03-27 10:04:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 298.09 Mbit/s

95th percentile per-packet one-way delay: 2.947 ms

Loss rate: 0.01%

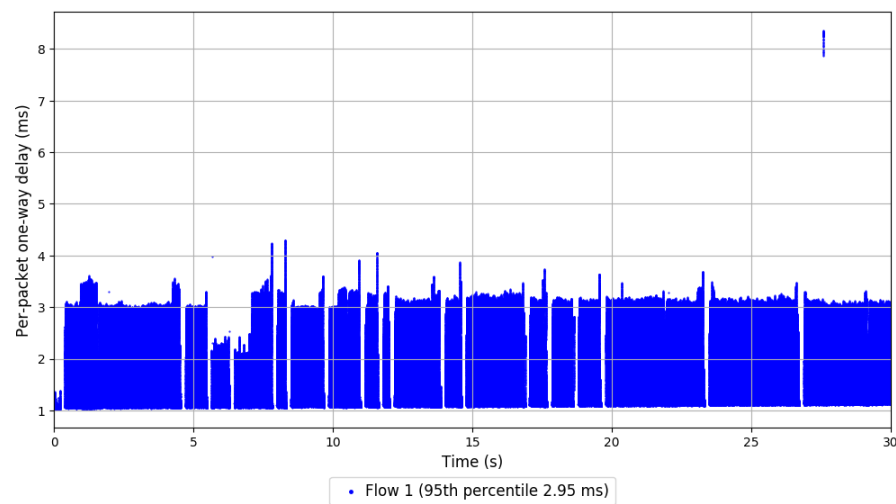
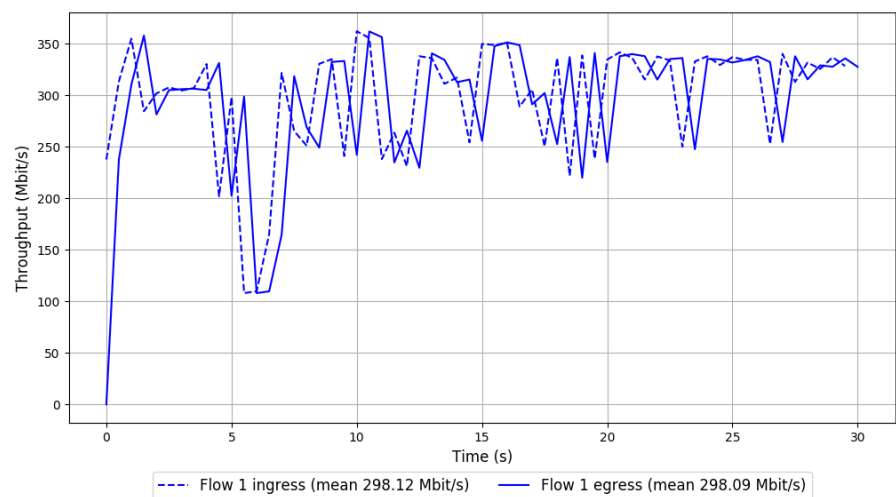
-- Flow 1:

Average throughput: 298.09 Mbit/s

95th percentile per-packet one-way delay: 2.947 ms

Loss rate: 0.01%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-03-27 07:46:04

End at: 2019-03-27 07:46:34

Local clock offset: -5.535 ms

Remote clock offset: 3.441 ms

Below is generated by plot.py at 2019-03-27 10:05:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 326.41 Mbit/s

95th percentile per-packet one-way delay: 2.044 ms

Loss rate: 0.00%

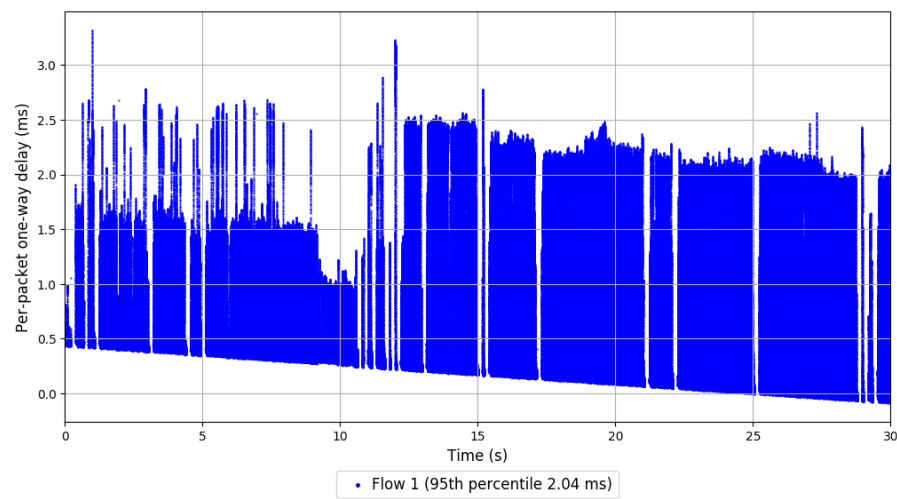
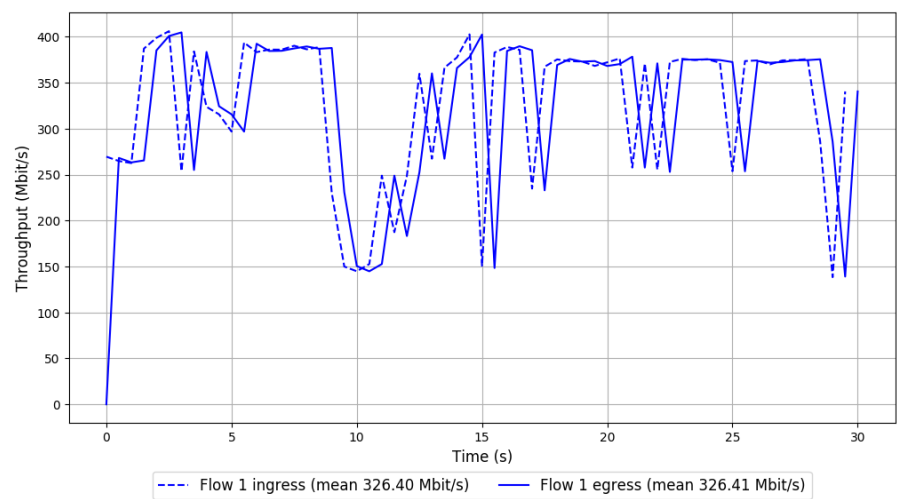
-- Flow 1:

Average throughput: 326.41 Mbit/s

95th percentile per-packet one-way delay: 2.044 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-03-27 08:15:52

End at: 2019-03-27 08:16:22

Local clock offset: 6.076 ms

Remote clock offset: 1.113 ms

Below is generated by plot.py at 2019-03-27 10:05:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 307.26 Mbit/s

95th percentile per-packet one-way delay: 2.532 ms

Loss rate: 0.00%

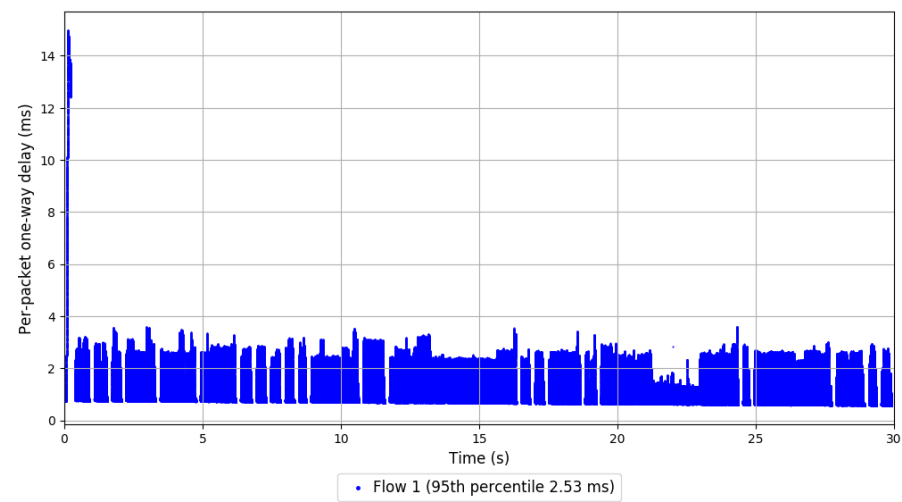
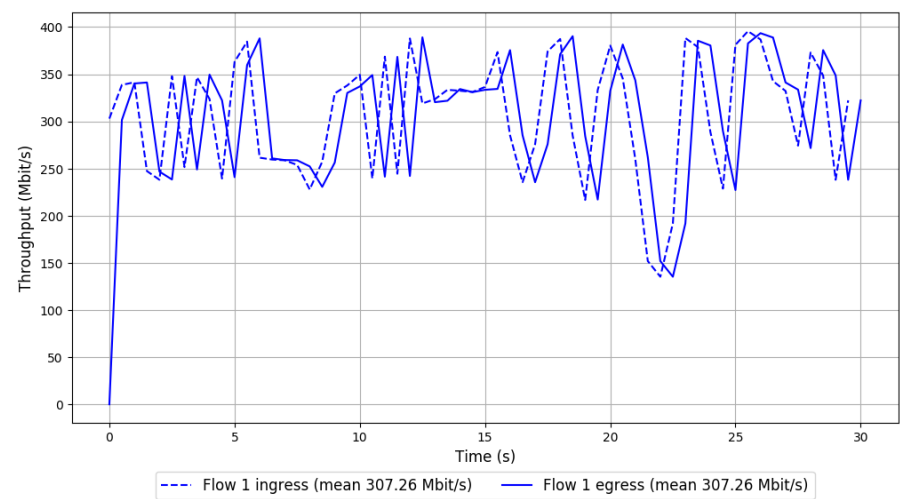
-- Flow 1:

Average throughput: 307.26 Mbit/s

95th percentile per-packet one-way delay: 2.532 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link

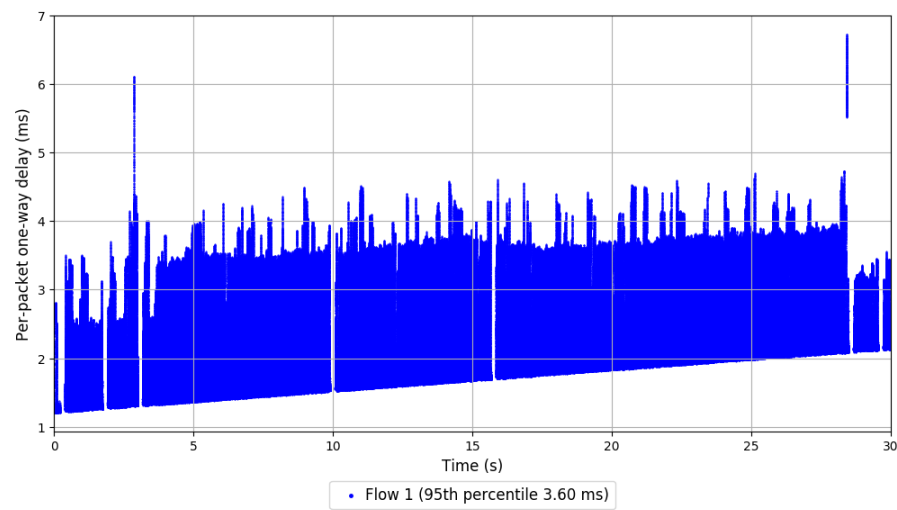
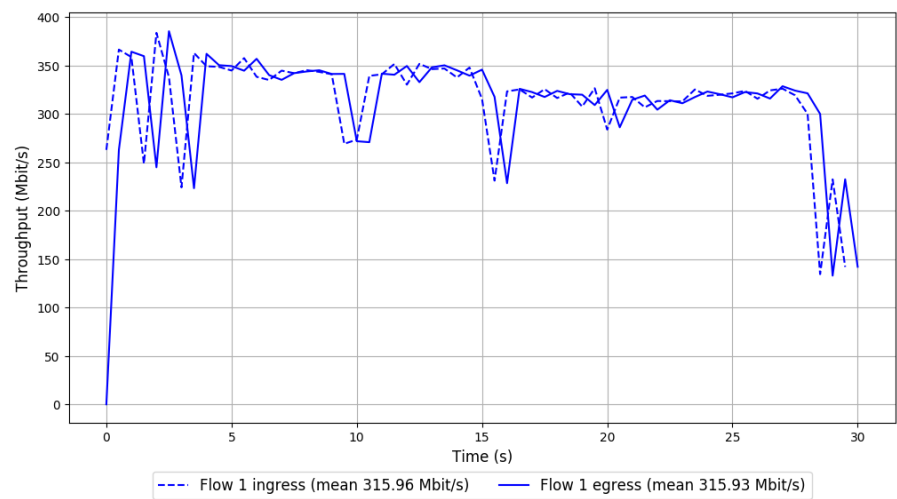


Run 5: Statistics of Verus

Start at: 2019-03-27 08:45:45
End at: 2019-03-27 08:46:15
Local clock offset: 9.681 ms
Remote clock offset: -0.358 ms

Below is generated by plot.py at 2019-03-27 10:05:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 315.93 Mbit/s
95th percentile per-packet one-way delay: 3.598 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 315.93 Mbit/s
95th percentile per-packet one-way delay: 3.598 ms
Loss rate: 0.01%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-03-27 06:38:11

End at: 2019-03-27 06:38:41

Local clock offset: -0.301 ms

Remote clock offset: 0.931 ms

Below is generated by plot.py at 2019-03-27 10:06:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 351.65 Mbit/s

95th percentile per-packet one-way delay: 0.996 ms

Loss rate: 0.00%

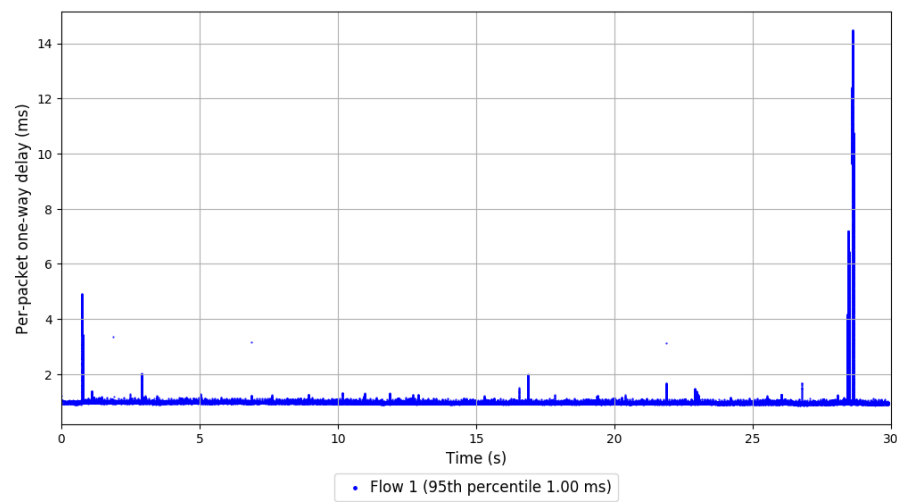
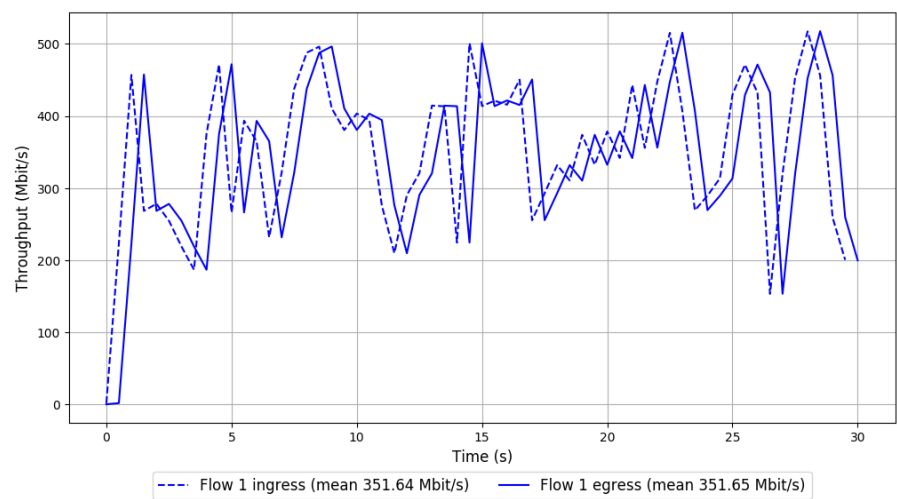
-- Flow 1:

Average throughput: 351.65 Mbit/s

95th percentile per-packet one-way delay: 0.996 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-03-27 07:07:44

End at: 2019-03-27 07:08:14

Local clock offset: -3.484 ms

Remote clock offset: 2.089 ms

Below is generated by plot.py at 2019-03-27 10:06:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 329.01 Mbit/s

95th percentile per-packet one-way delay: 1.180 ms

Loss rate: 0.01%

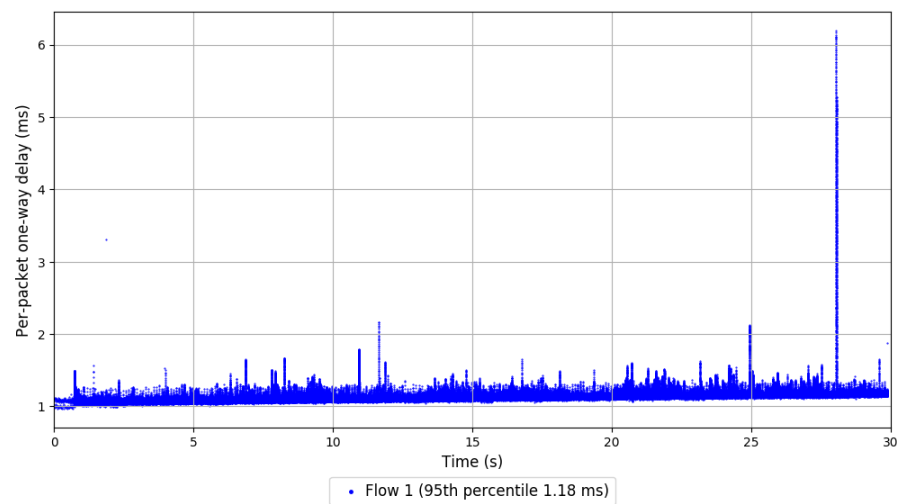
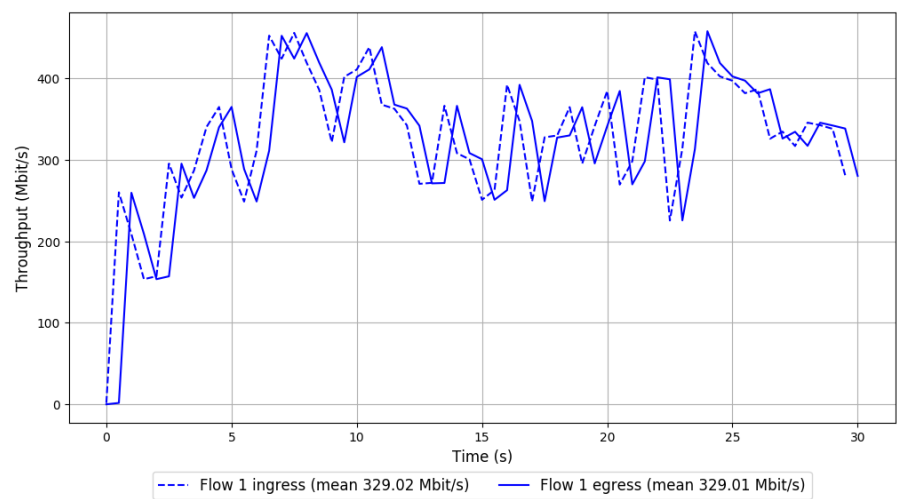
-- Flow 1:

Average throughput: 329.01 Mbit/s

95th percentile per-packet one-way delay: 1.180 ms

Loss rate: 0.01%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-03-27 07:37:35

End at: 2019-03-27 07:38:05

Local clock offset: -5.114 ms

Remote clock offset: 4.015 ms

Below is generated by plot.py at 2019-03-27 10:06:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 337.18 Mbit/s

95th percentile per-packet one-way delay: 0.959 ms

Loss rate: 0.01%

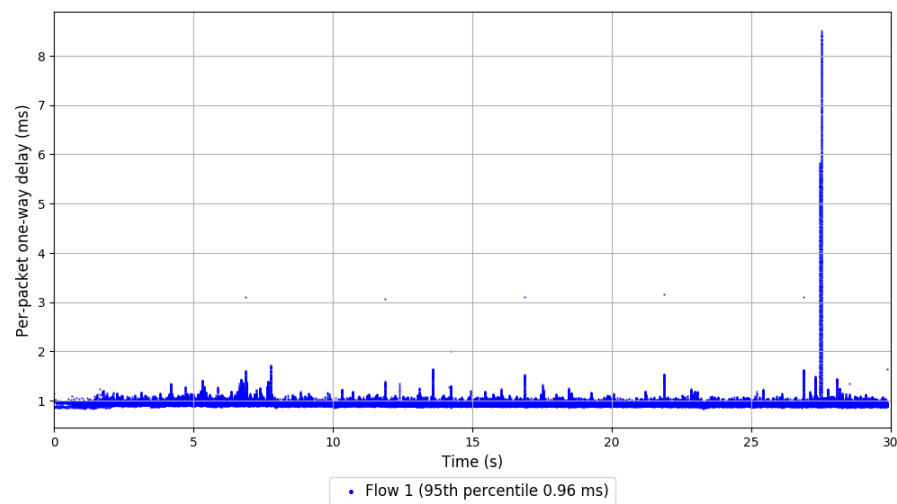
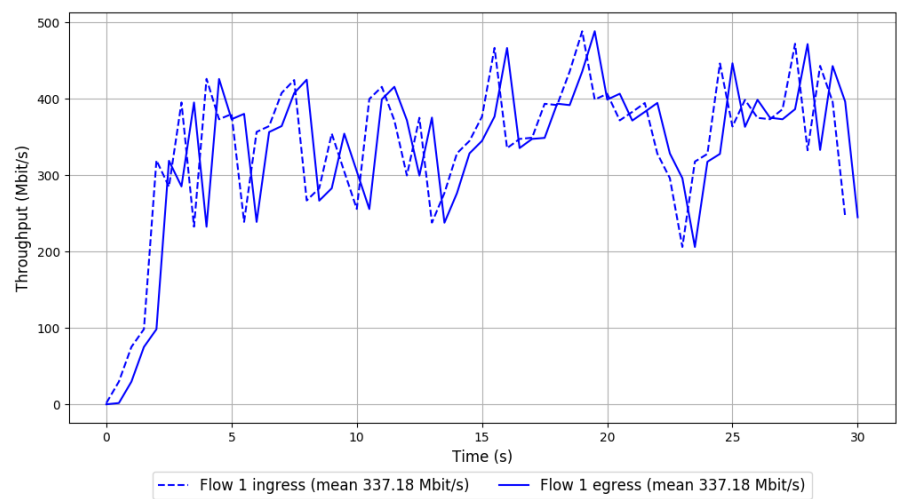
-- Flow 1:

Average throughput: 337.18 Mbit/s

95th percentile per-packet one-way delay: 0.959 ms

Loss rate: 0.01%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-03-27 08:07:28

End at: 2019-03-27 08:07:58

Local clock offset: 4.658 ms

Remote clock offset: 3.688 ms

Below is generated by plot.py at 2019-03-27 10:06:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 311.48 Mbit/s

95th percentile per-packet one-way delay: 0.874 ms

Loss rate: 0.01%

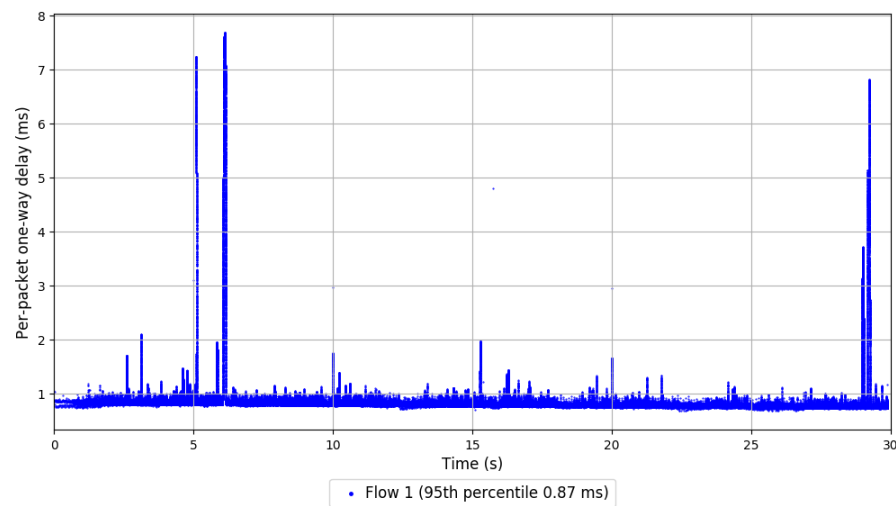
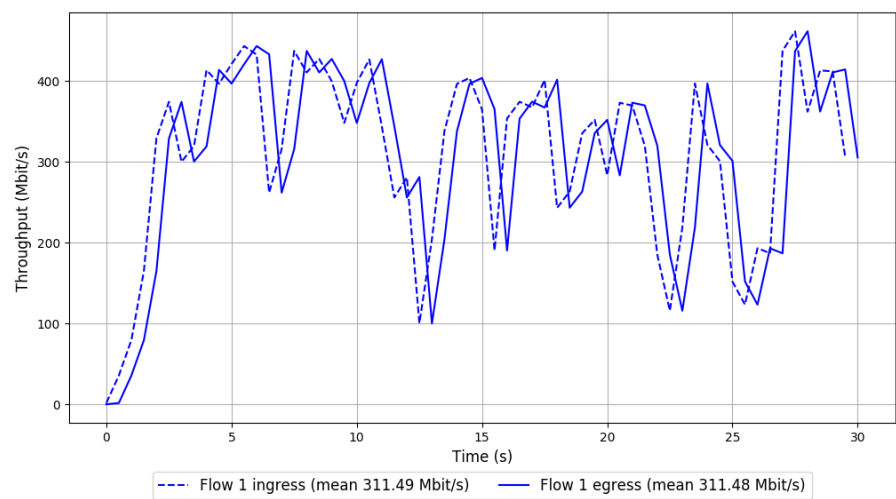
-- Flow 1:

Average throughput: 311.48 Mbit/s

95th percentile per-packet one-way delay: 0.874 ms

Loss rate: 0.01%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-03-27 08:37:15

End at: 2019-03-27 08:37:45

Local clock offset: 8.705 ms

Remote clock offset: -1.66 ms

Below is generated by plot.py at 2019-03-27 10:06:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 346.73 Mbit/s

95th percentile per-packet one-way delay: 0.939 ms

Loss rate: 0.01%

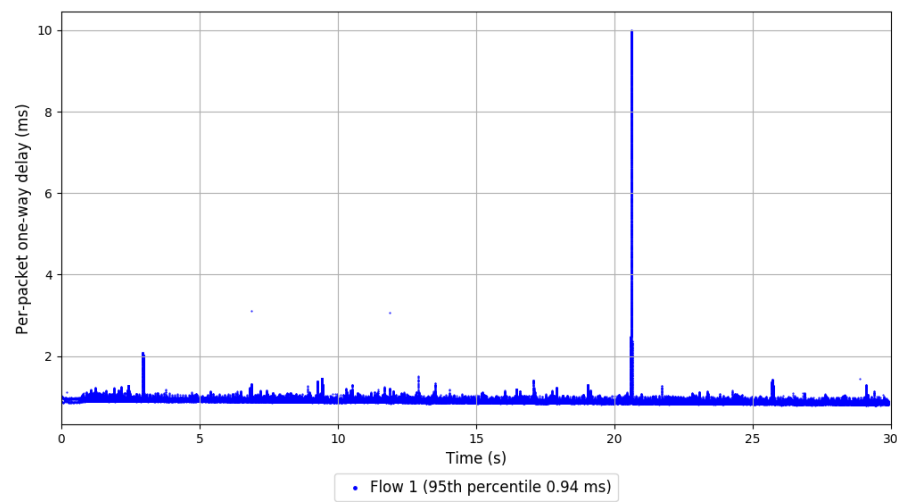
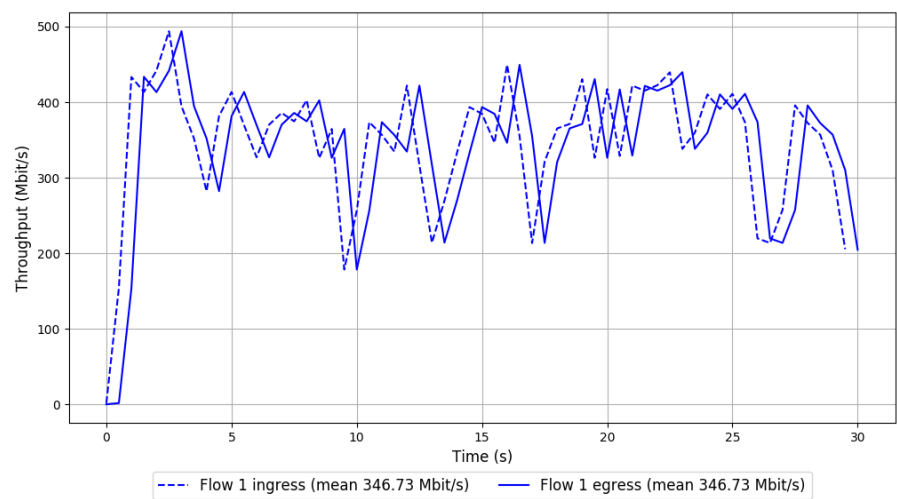
-- Flow 1:

Average throughput: 346.73 Mbit/s

95th percentile per-packet one-way delay: 0.939 ms

Loss rate: 0.01%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-03-27 06:33:44

End at: 2019-03-27 06:34:14

Local clock offset: -0.265 ms

Remote clock offset: 1.77 ms

Below is generated by plot.py at 2019-03-27 10:06:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 0.967 ms

Loss rate: 0.00%

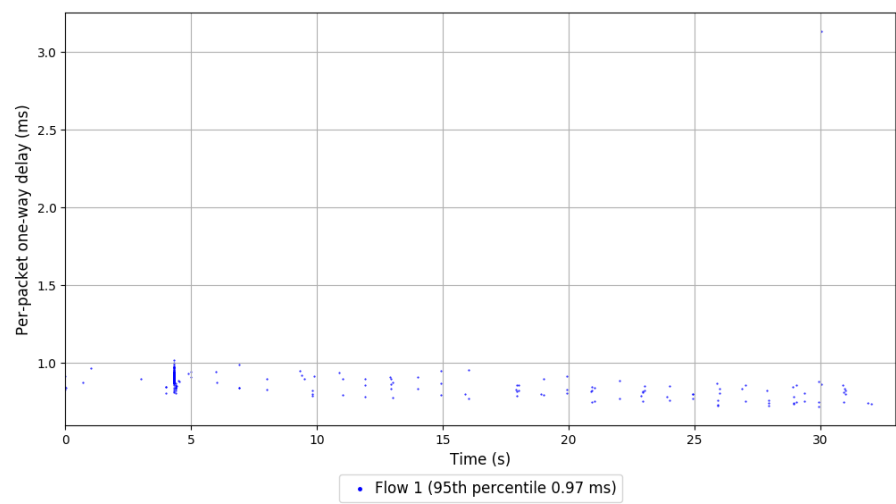
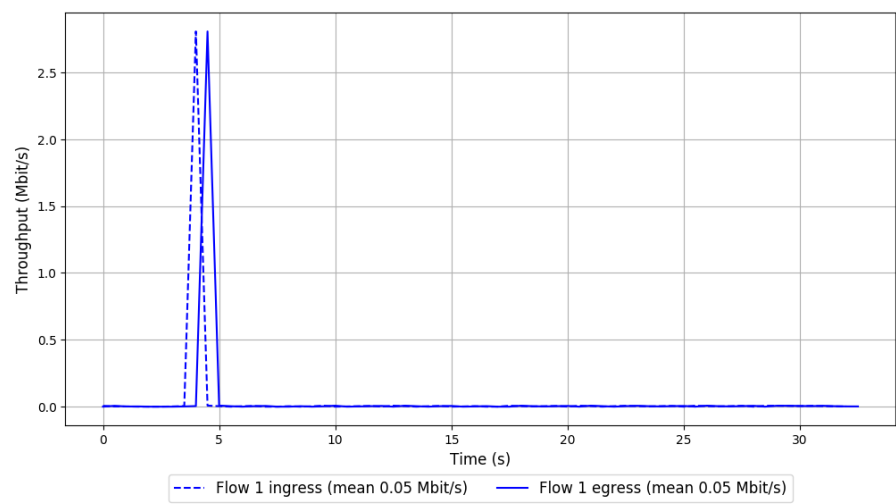
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 0.967 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-03-27 07:03:16

End at: 2019-03-27 07:03:46

Local clock offset: -3.134 ms

Remote clock offset: 1.13 ms

Below is generated by plot.py at 2019-03-27 10:06:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.279 ms

Loss rate: 0.00%

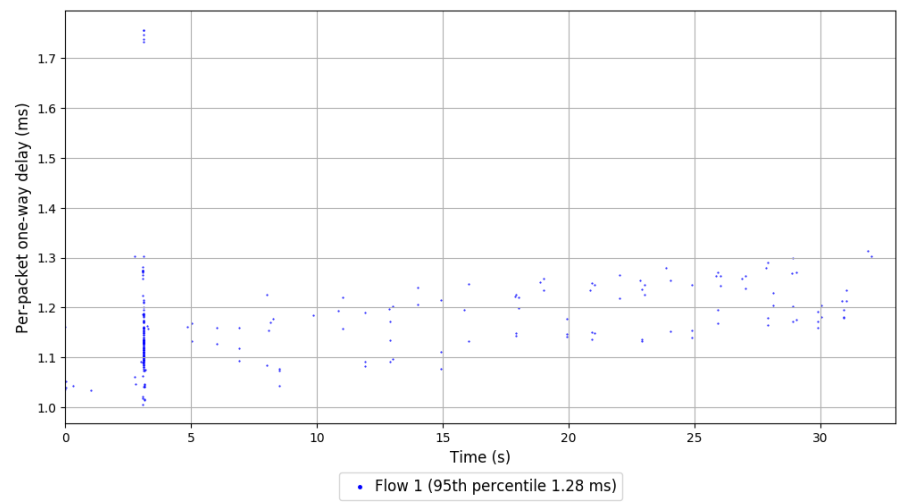
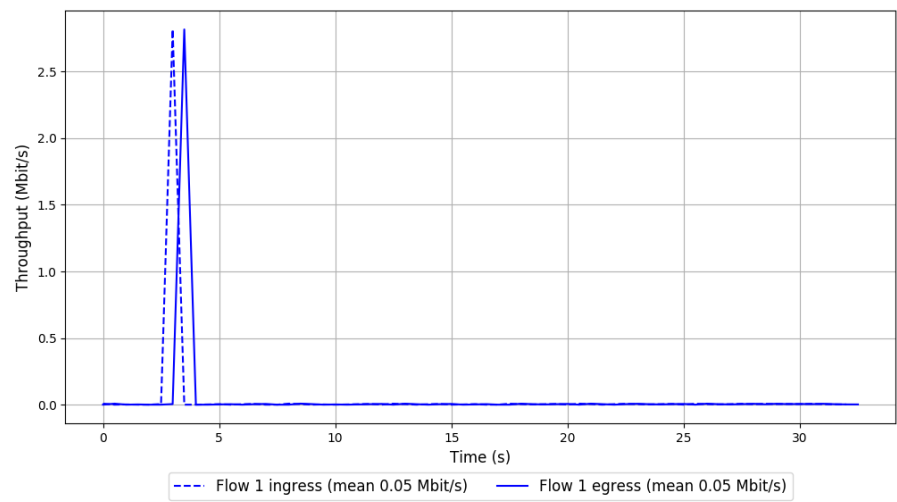
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.279 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-03-27 07:33:09

End at: 2019-03-27 07:33:39

Local clock offset: -4.896 ms

Remote clock offset: 4.38 ms

Below is generated by plot.py at 2019-03-27 10:06:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.129 ms

Loss rate: 0.00%

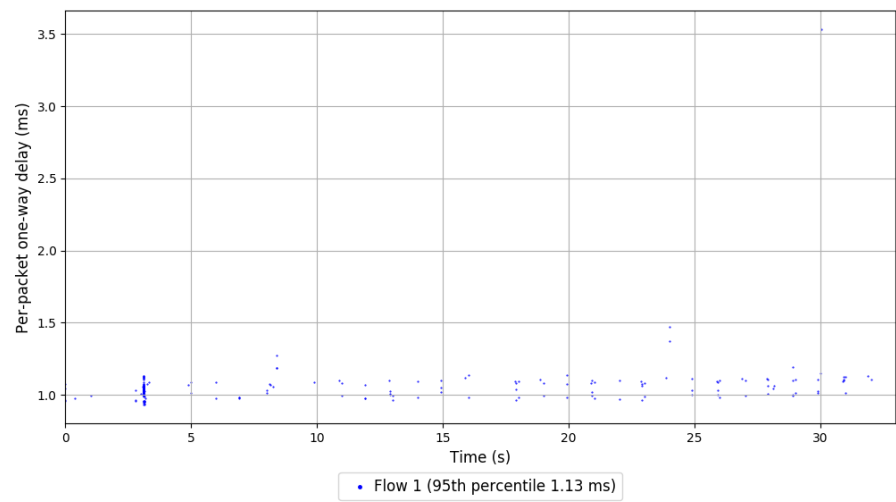
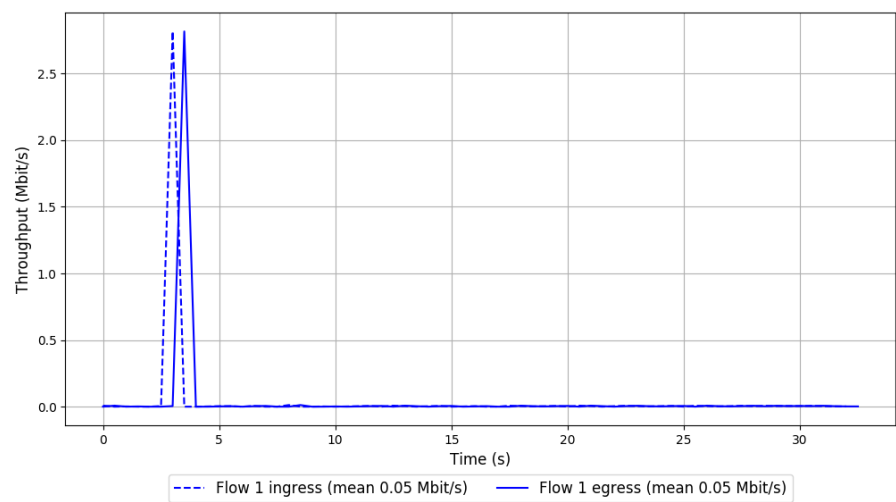
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.129 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-03-27 08:03:00

End at: 2019-03-27 08:03:30

Local clock offset: 3.679 ms

Remote clock offset: 3.618 ms

Below is generated by plot.py at 2019-03-27 10:06:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 0.835 ms

Loss rate: 0.00%

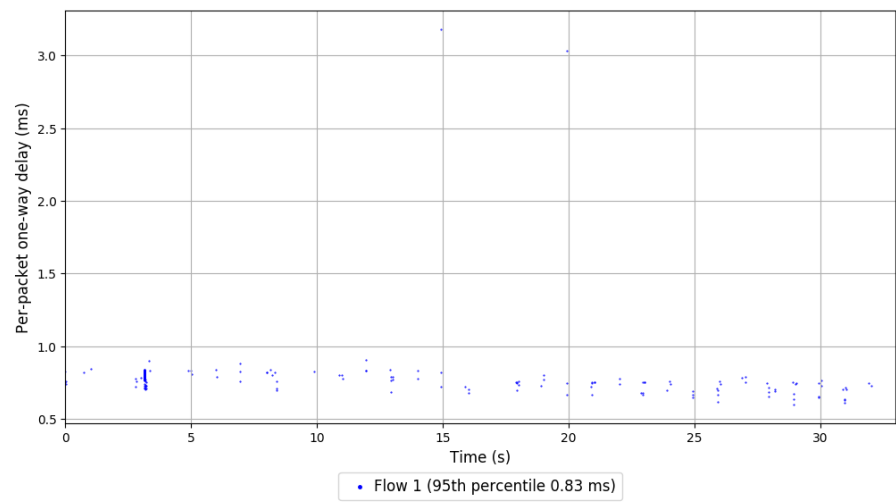
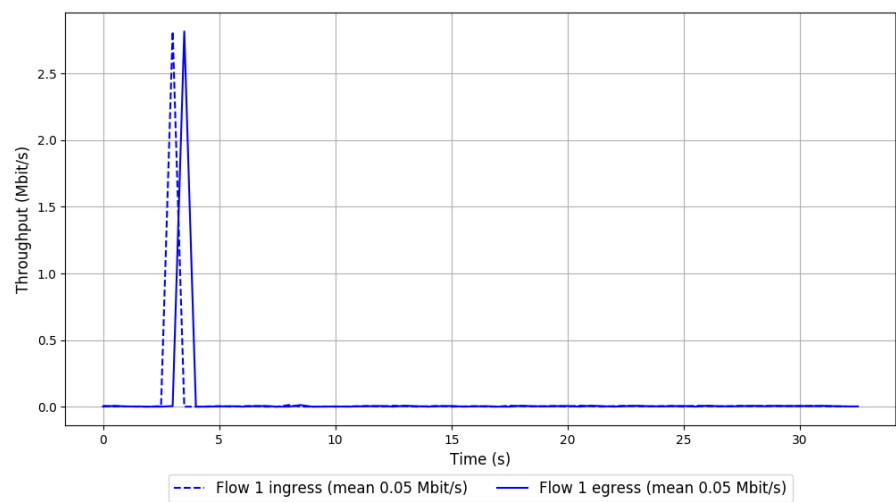
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 0.835 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-03-27 08:32:48
End at: 2019-03-27 08:33:18
Local clock offset: 8.178 ms
Remote clock offset: -1.248 ms

Below is generated by plot.py at 2019-03-27 10:06:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 0.923 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 0.923 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

