

Pantheon Report

Generated at 2019-01-17 09:52:41 (UTC).

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

Repeated the test of 21 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

System info:

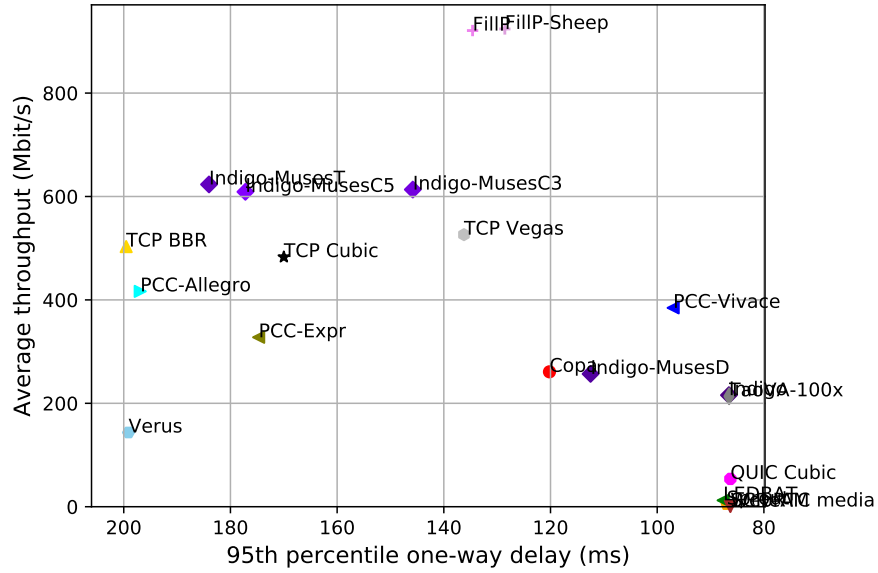
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

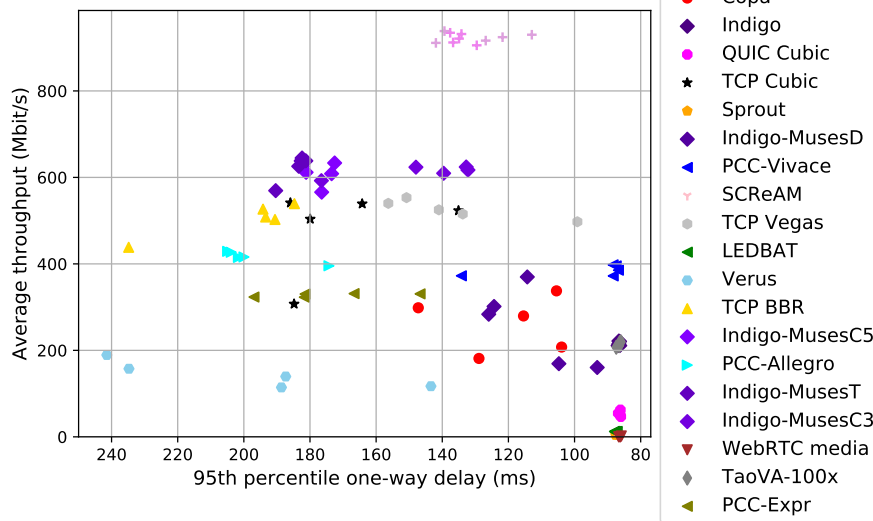
```
branch: muses @ c80a283586bf7b0cc1fe08c69c8f60d56498f81c
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ c3eee875824760ec5b2fd207fefe166e1afe2170
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from GCE Sydney to GCE Iowa, 5 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE Sydney to GCE Iowa, 5 runs of 30s each per 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	503.13	199.55	1.89
Copa	5	260.92	120.19	0.04
TCP Cubic	5	482.90	169.99	0.15
FillP	5	920.94	134.61	0.51
FillP-Sheep	5	924.05	128.56	0.41
Indigo	5	215.81	86.55	0.00
Indigo-MusesC3	5	613.38	145.82	0.16
Indigo-MusesC5	5	609.02	177.20	1.31
Indigo-MusesD	5	256.89	112.49	0.14
Indigo-MusesT	5	623.32	184.02	2.73
LEDBAT	5	12.31	87.64	0.00
PCC-Allegro	5	416.50	196.91	3.61
PCC-Expr	5	327.68	174.71	1.48
QUIC Cubic	5	53.79	86.29	0.00
SCReAM	5	0.22	86.26	0.00
Sprout	5	4.46	86.97	0.00
TaoVA-100x	5	213.56	86.52	0.00
TCP Vegas	5	526.20	136.22	0.10
Verus	5	143.57	199.11	3.60
PCC-Vivace	5	384.64	97.01	0.06
WebRTC media	5	0.45	86.29	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-01-17 05:33:05

End at: 2019-01-17 05:33:35

Local clock offset: 0.464 ms

Remote clock offset: 0.931 ms

Below is generated by plot.py at 2019-01-17 08:09:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 438.40 Mbit/s

95th percentile per-packet one-way delay: 234.826 ms

Loss rate: 3.73%

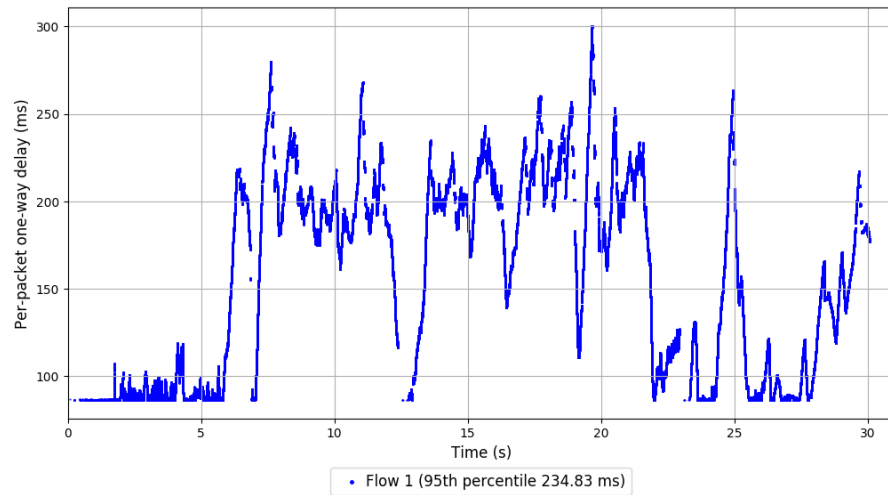
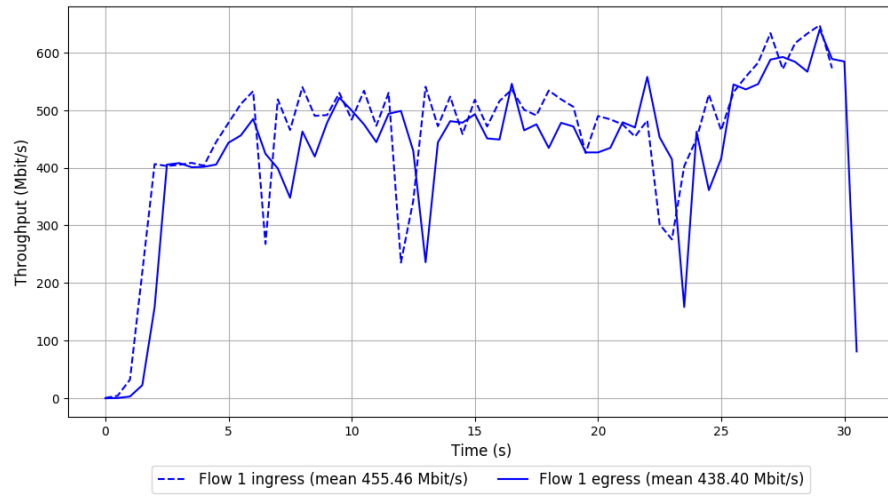
-- Flow 1:

Average throughput: 438.40 Mbit/s

95th percentile per-packet one-way delay: 234.826 ms

Loss rate: 3.73%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-01-17 06:04:39

End at: 2019-01-17 06:05:09

Local clock offset: 0.228 ms

Remote clock offset: 0.349 ms

Below is generated by plot.py at 2019-01-17 08:09:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 502.76 Mbit/s

95th percentile per-packet one-way delay: 190.583 ms

Loss rate: 1.22%

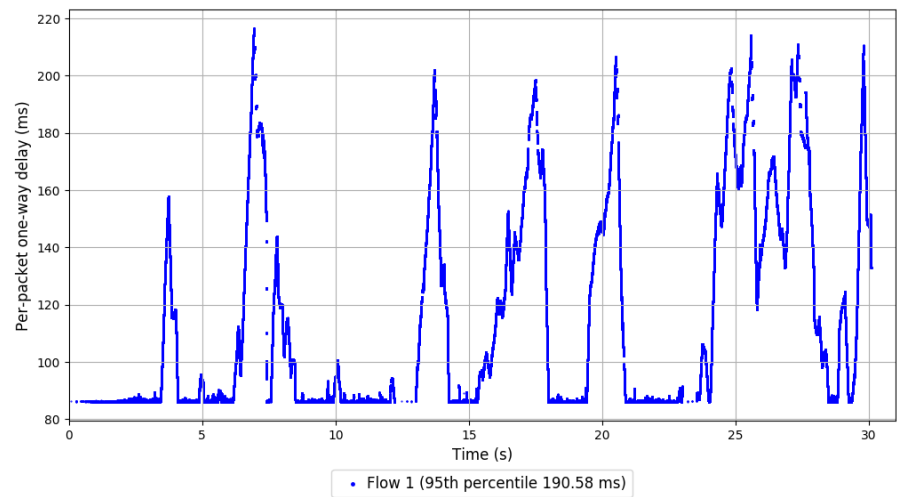
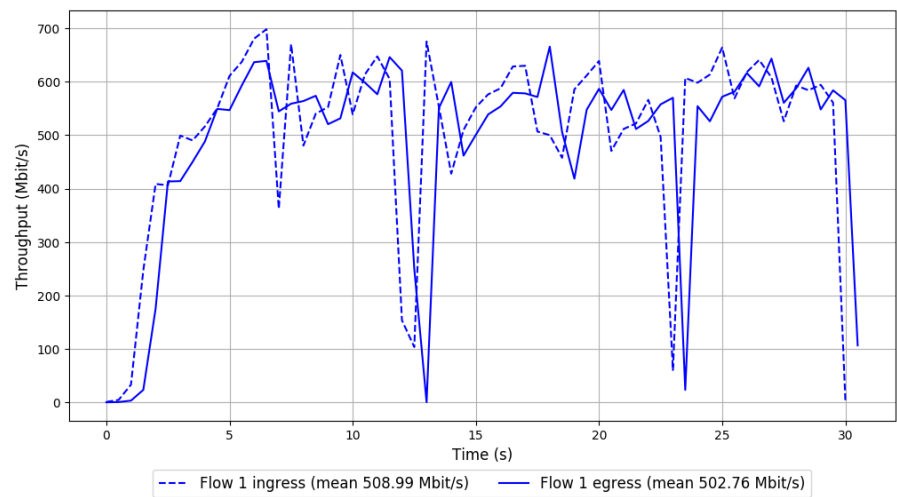
-- Flow 1:

Average throughput: 502.76 Mbit/s

95th percentile per-packet one-way delay: 190.583 ms

Loss rate: 1.22%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-01-17 06:35:55

End at: 2019-01-17 06:36:25

Local clock offset: -0.11 ms

Remote clock offset: 0.154 ms

Below is generated by plot.py at 2019-01-17 08:10:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 526.68 Mbit/s

95th percentile per-packet one-way delay: 194.203 ms

Loss rate: 1.79%

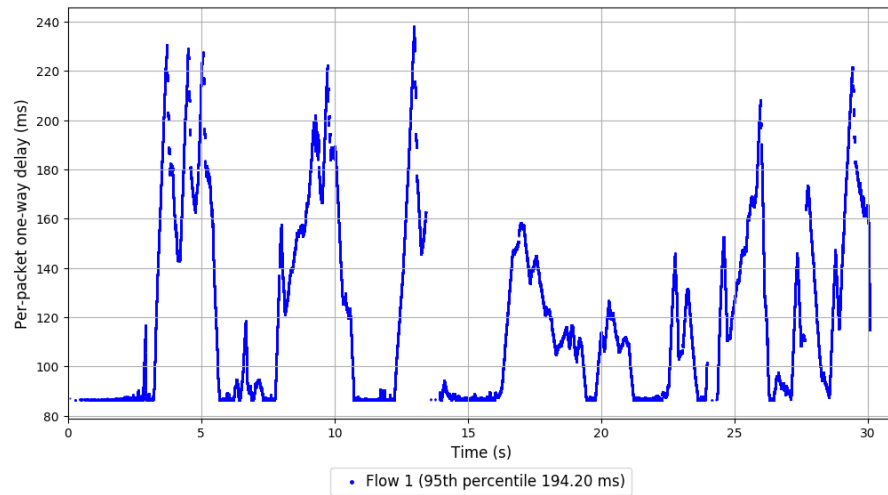
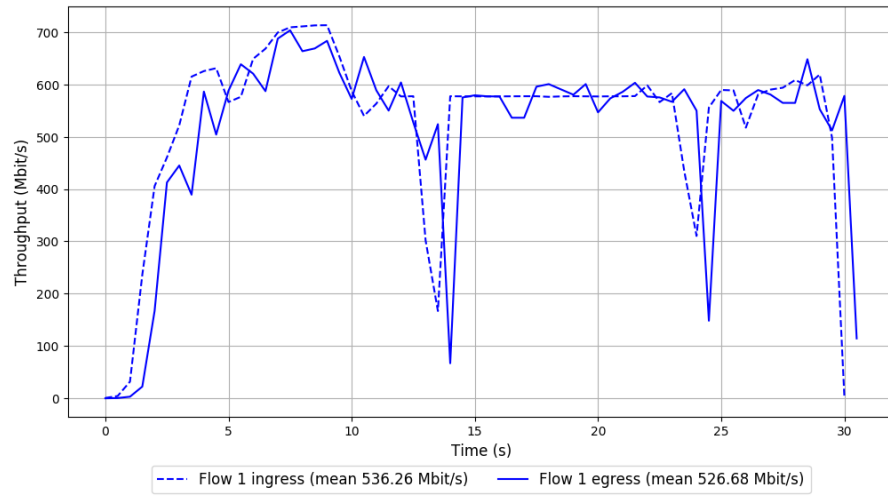
-- Flow 1:

Average throughput: 526.68 Mbit/s

95th percentile per-packet one-way delay: 194.203 ms

Loss rate: 1.79%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-01-17 07:07:31

End at: 2019-01-17 07:08:01

Local clock offset: 0.018 ms

Remote clock offset: 0.04 ms

Below is generated by plot.py at 2019-01-17 08:10:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 508.44 Mbit/s

95th percentile per-packet one-way delay: 193.404 ms

Loss rate: 1.75%

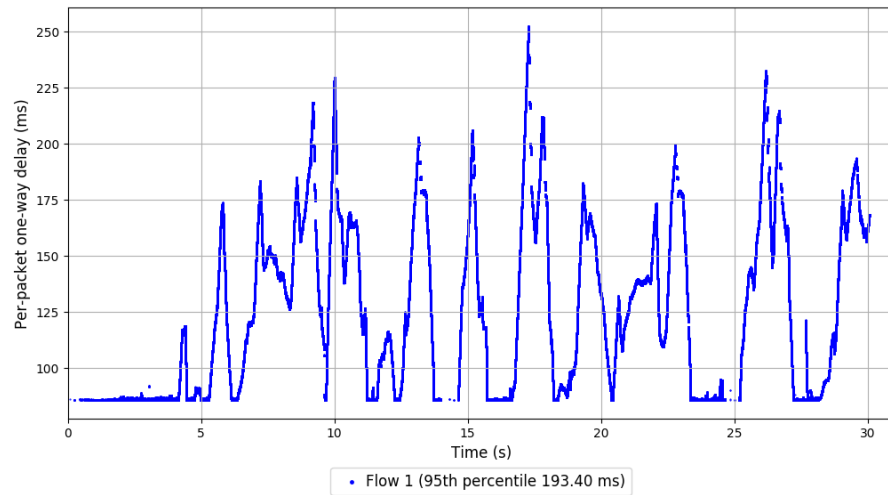
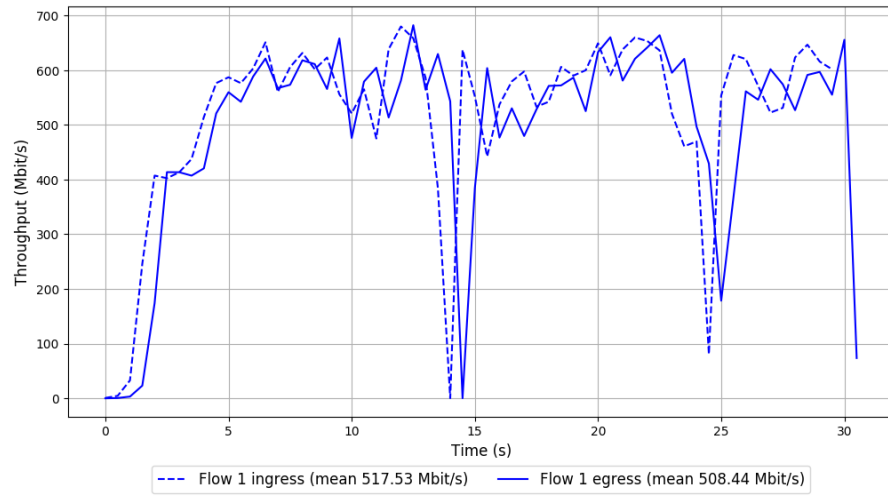
-- Flow 1:

Average throughput: 508.44 Mbit/s

95th percentile per-packet one-way delay: 193.404 ms

Loss rate: 1.75%

Run 4: Report of TCP BBR — Data Link

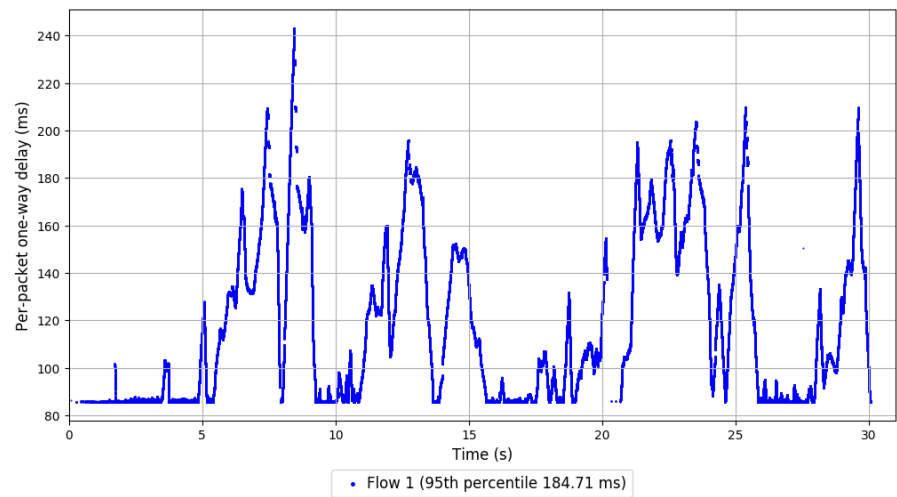
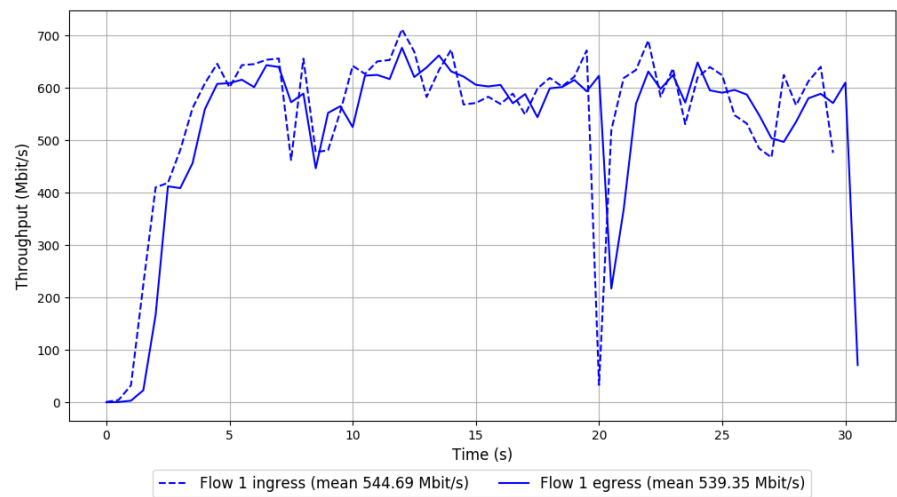


Run 5: Statistics of TCP BBR

Start at: 2019-01-17 07:39:18
End at: 2019-01-17 07:39:48
Local clock offset: 0.297 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2019-01-17 08:10:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 539.35 Mbit/s
95th percentile per-packet one-way delay: 184.712 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 539.35 Mbit/s
95th percentile per-packet one-way delay: 184.712 ms
Loss rate: 0.98%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-01-17 05:21:58

End at: 2019-01-17 05:22:28

Local clock offset: 0.162 ms

Remote clock offset: 1.321 ms

Below is generated by plot.py at 2019-01-17 08:10:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.62 Mbit/s

95th percentile per-packet one-way delay: 103.914 ms

Loss rate: 0.00%

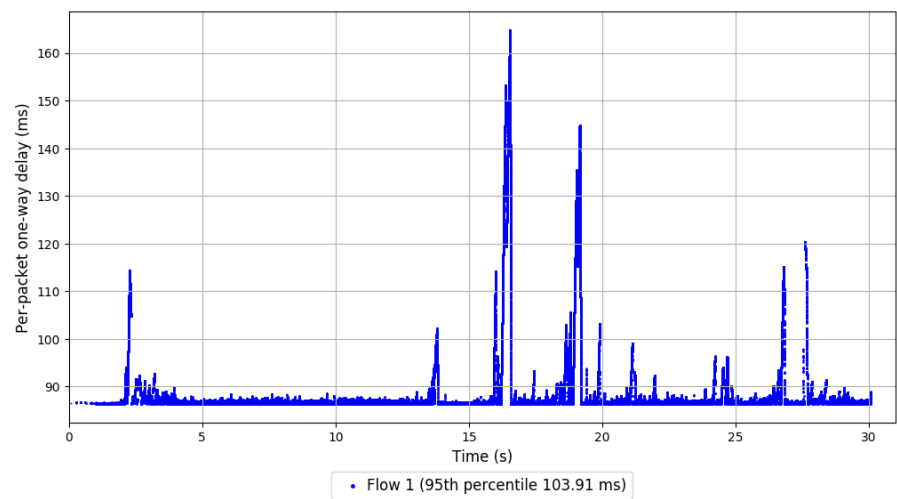
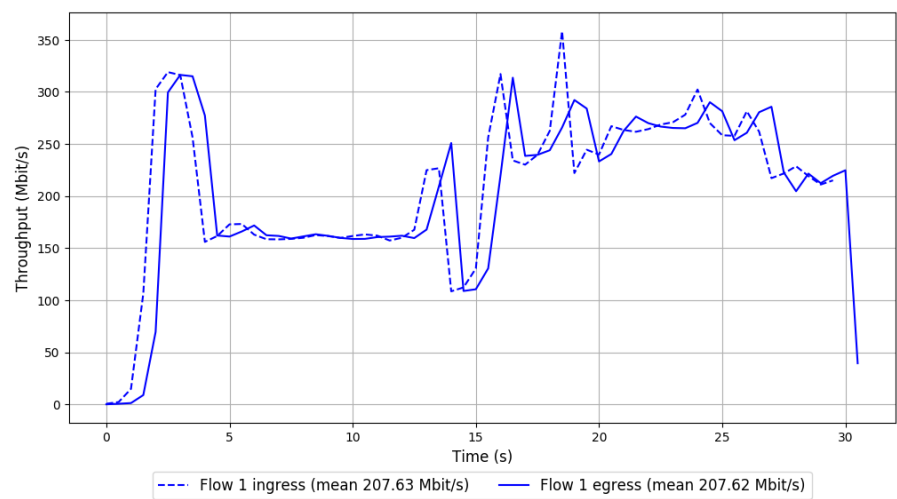
-- Flow 1:

Average throughput: 207.62 Mbit/s

95th percentile per-packet one-way delay: 103.914 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-01-17 05:53:25

End at: 2019-01-17 05:53:55

Local clock offset: 0.272 ms

Remote clock offset: 0.386 ms

Below is generated by plot.py at 2019-01-17 08:10:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 298.48 Mbit/s

95th percentile per-packet one-way delay: 147.255 ms

Loss rate: 0.00%

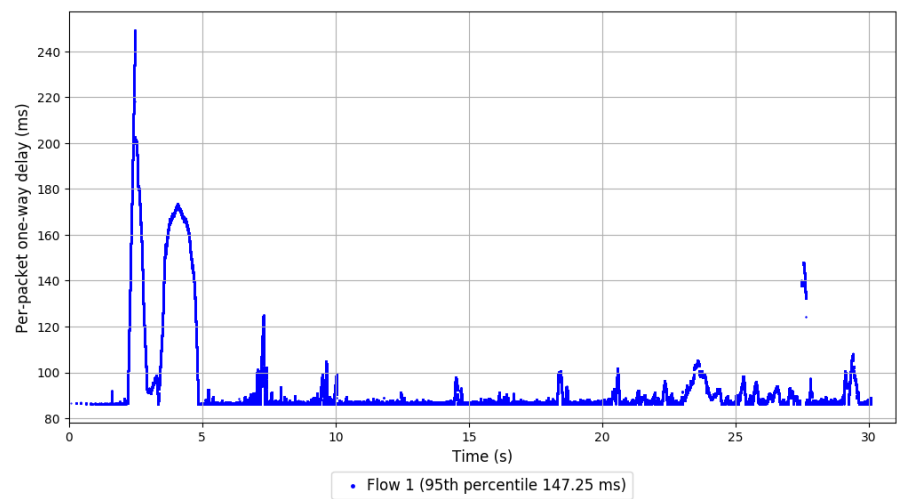
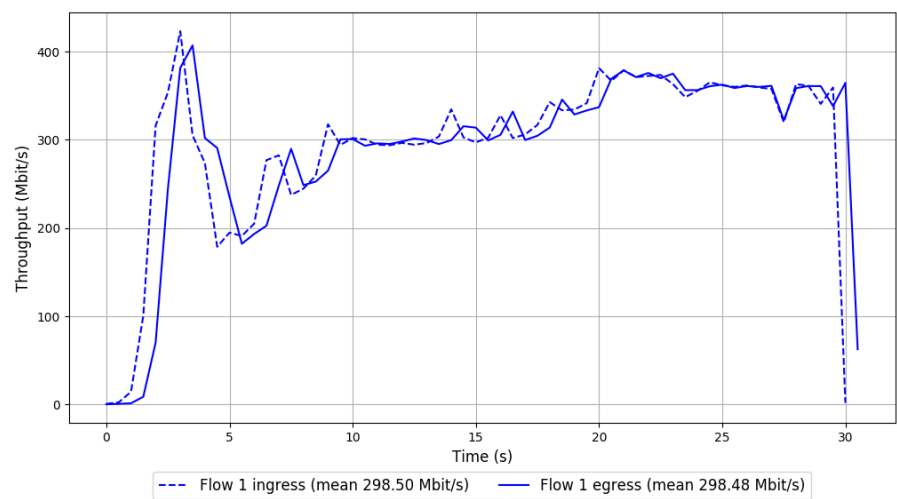
-- Flow 1:

Average throughput: 298.48 Mbit/s

95th percentile per-packet one-way delay: 147.255 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-01-17 06:24:50

End at: 2019-01-17 06:25:20

Local clock offset: 0.407 ms

Remote clock offset: 0.162 ms

Below is generated by plot.py at 2019-01-17 08:10:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.30 Mbit/s

95th percentile per-packet one-way delay: 128.907 ms

Loss rate: 0.00%

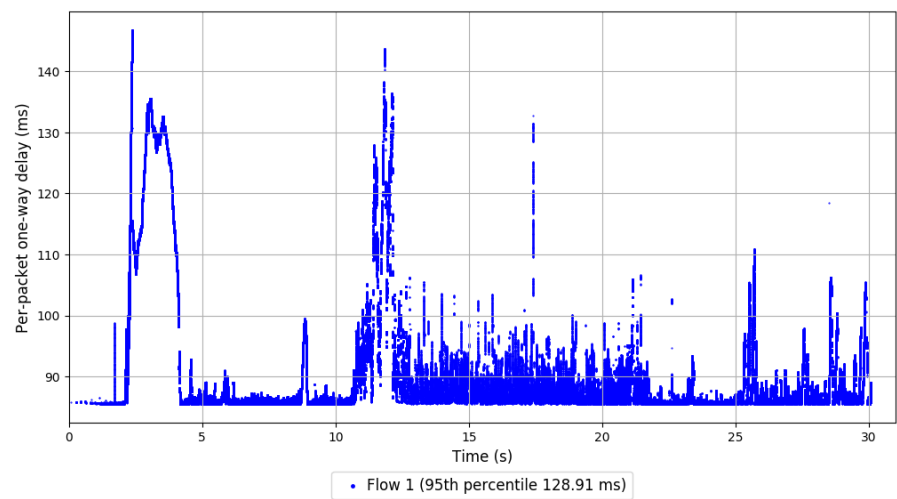
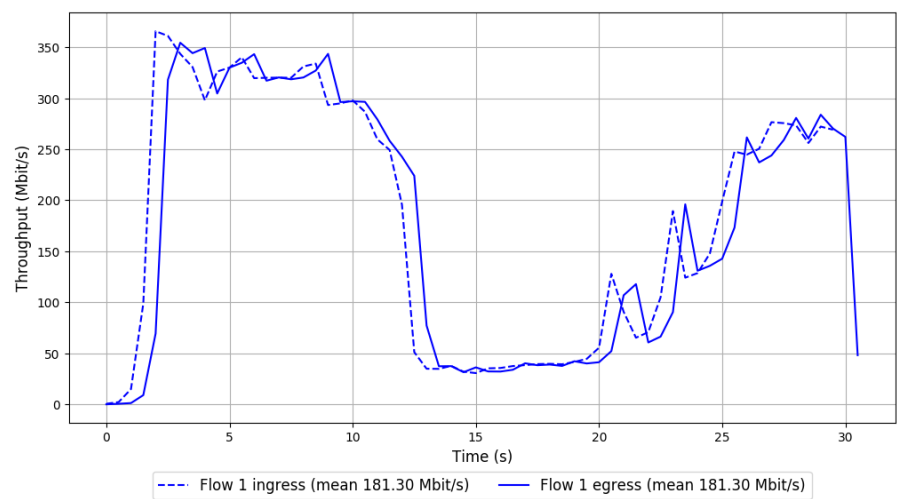
-- Flow 1:

Average throughput: 181.30 Mbit/s

95th percentile per-packet one-way delay: 128.907 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-01-17 06:56:16

End at: 2019-01-17 06:56:46

Local clock offset: 0.358 ms

Remote clock offset: 0.11 ms

Below is generated by plot.py at 2019-01-17 08:18:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 337.60 Mbit/s

95th percentile per-packet one-way delay: 105.464 ms

Loss rate: 0.01%

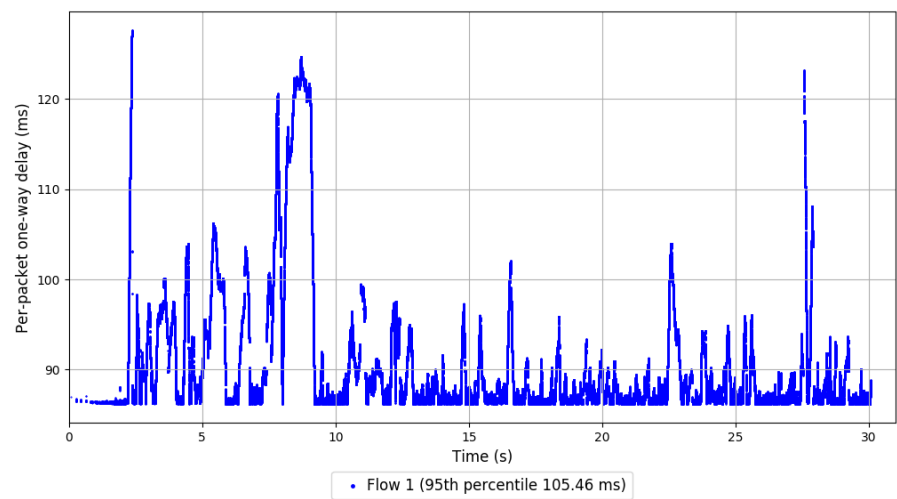
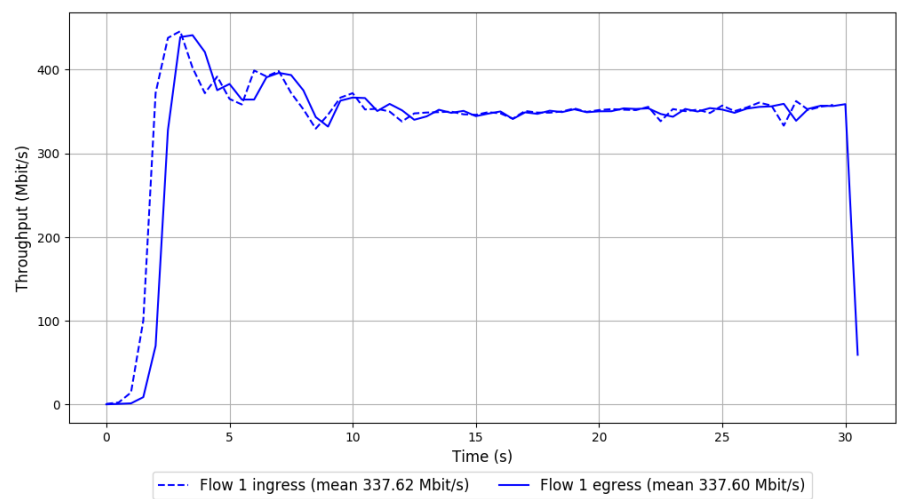
-- Flow 1:

Average throughput: 337.60 Mbit/s

95th percentile per-packet one-way delay: 105.464 ms

Loss rate: 0.01%

Run 4: Report of Copa — Data Link

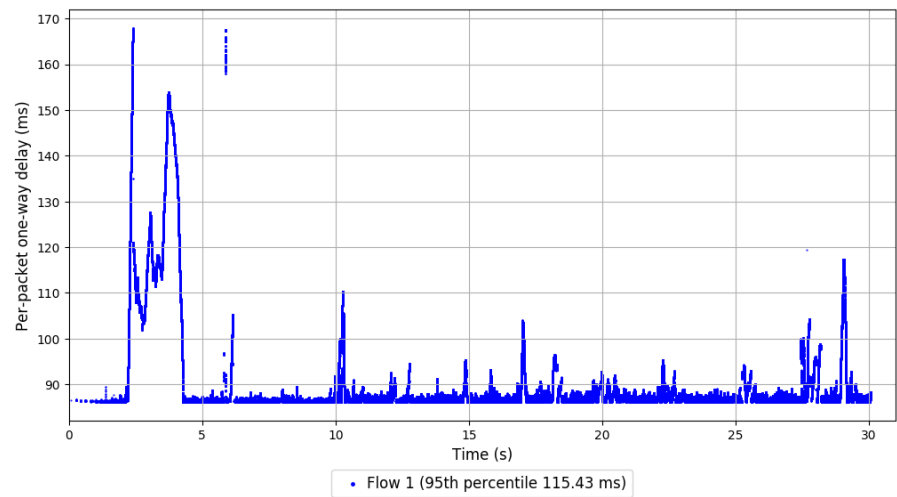
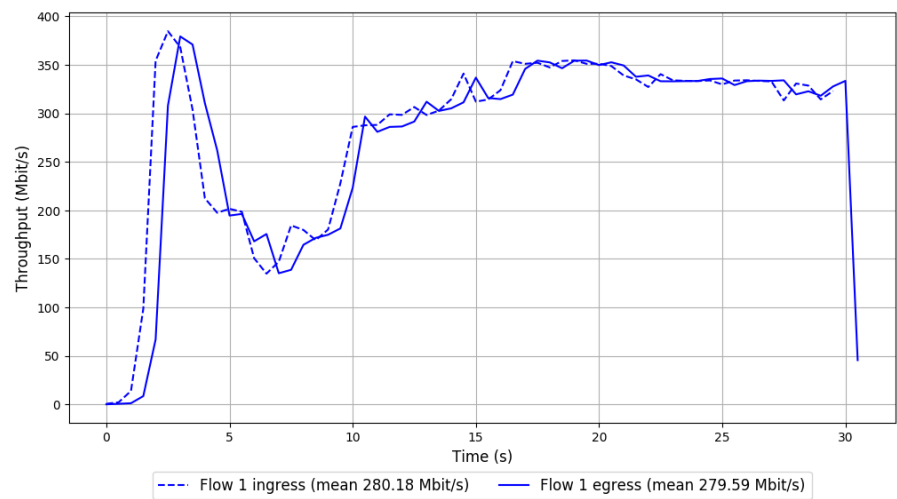


Run 5: Statistics of Copa

Start at: 2019-01-17 07:27:43
End at: 2019-01-17 07:28:13
Local clock offset: -0.086 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2019-01-17 08:18:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 279.59 Mbit/s
95th percentile per-packet one-way delay: 115.430 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 279.59 Mbit/s
95th percentile per-packet one-way delay: 115.430 ms
Loss rate: 0.21%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-01-17 05:11:08

End at: 2019-01-17 05:11:38

Local clock offset: 1.225 ms

Remote clock offset: 3.473 ms

Below is generated by plot.py at 2019-01-17 08:19:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 541.27 Mbit/s

95th percentile per-packet one-way delay: 185.920 ms

Loss rate: 0.26%

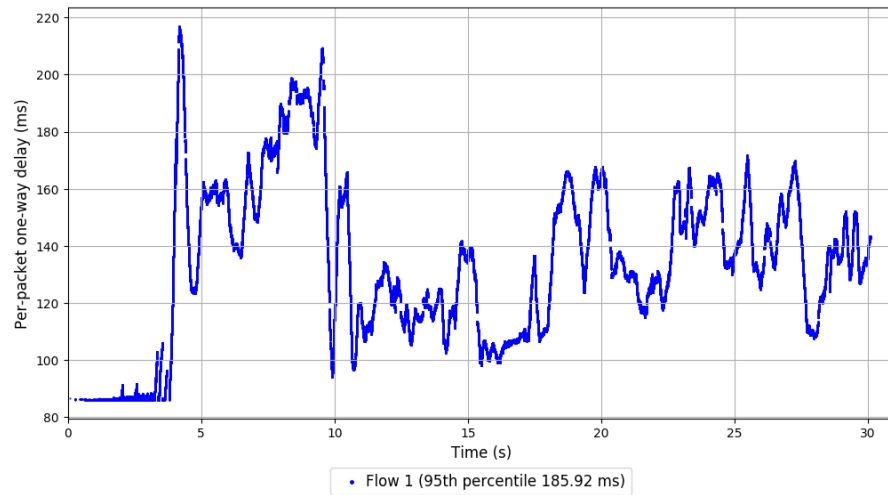
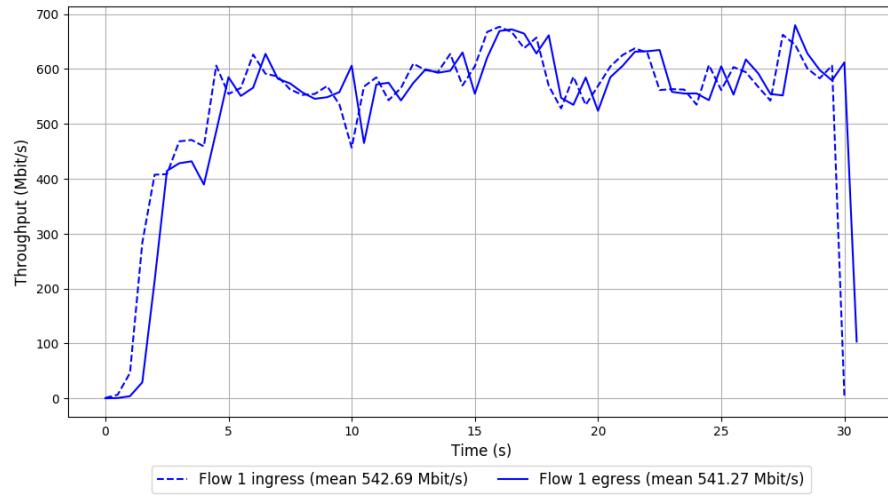
-- Flow 1:

Average throughput: 541.27 Mbit/s

95th percentile per-packet one-way delay: 185.920 ms

Loss rate: 0.26%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-01-17 05:42:52

End at: 2019-01-17 05:43:22

Local clock offset: 0.32 ms

Remote clock offset: 0.899 ms

Below is generated by plot.py at 2019-01-17 08:19:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 503.75 Mbit/s

95th percentile per-packet one-way delay: 179.933 ms

Loss rate: 0.24%

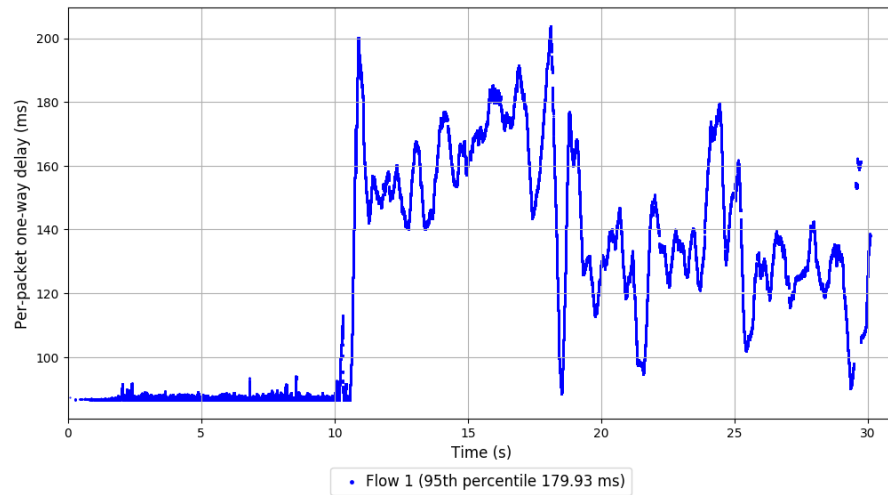
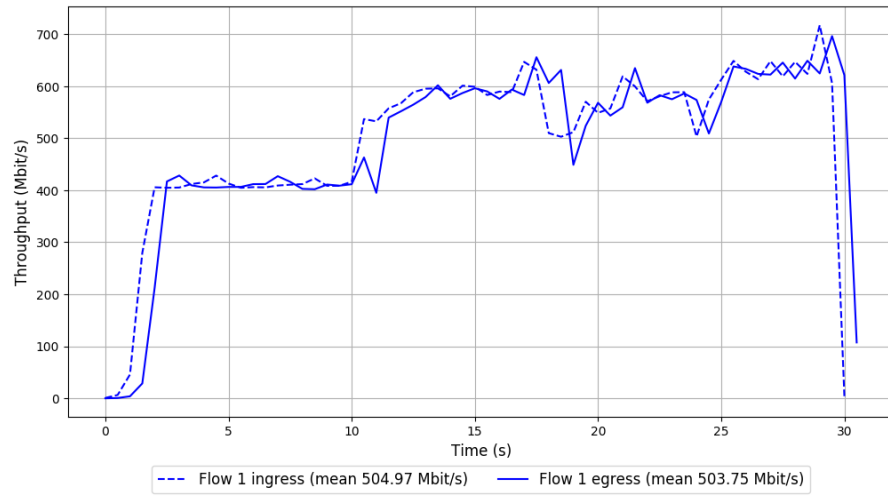
-- Flow 1:

Average throughput: 503.75 Mbit/s

95th percentile per-packet one-way delay: 179.933 ms

Loss rate: 0.24%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-01-17 06:14:27

End at: 2019-01-17 06:14:57

Local clock offset: 0.408 ms

Remote clock offset: 0.402 ms

Below is generated by plot.py at 2019-01-17 08:19:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 307.29 Mbit/s

95th percentile per-packet one-way delay: 184.805 ms

Loss rate: 0.02%

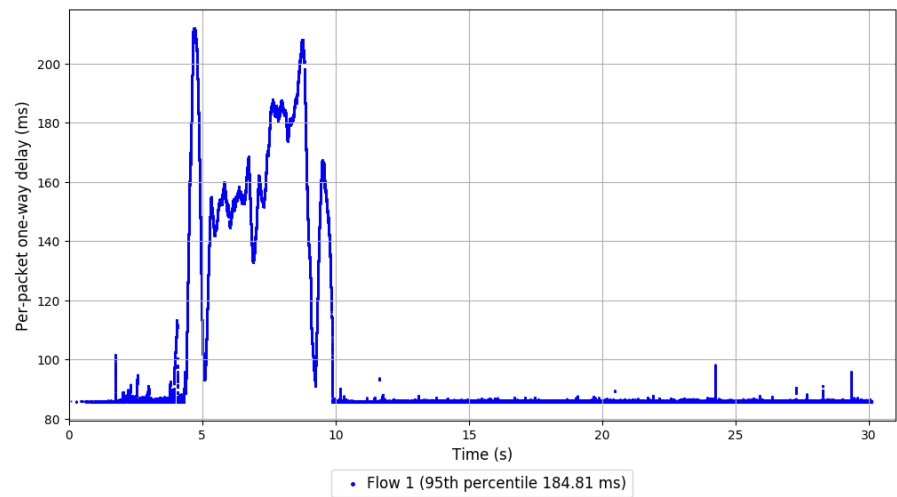
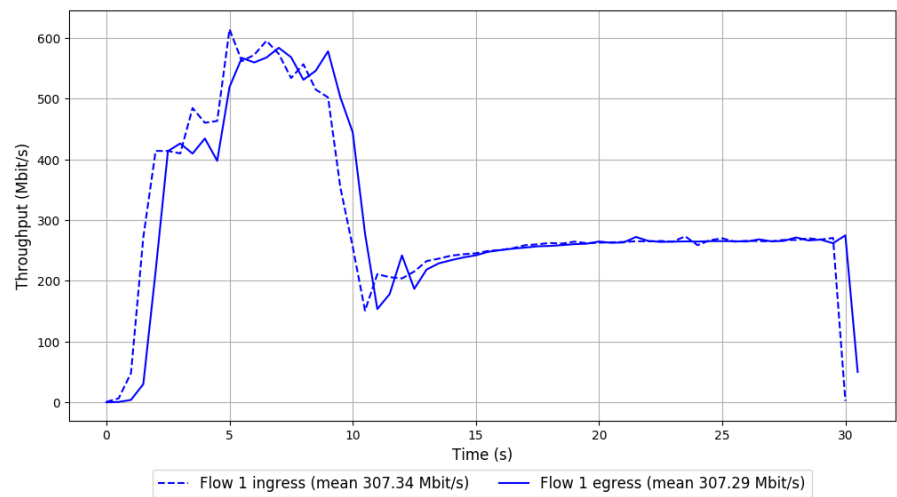
-- Flow 1:

Average throughput: 307.29 Mbit/s

95th percentile per-packet one-way delay: 184.805 ms

Loss rate: 0.02%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-01-17 06:45:46

End at: 2019-01-17 06:46:16

Local clock offset: 0.391 ms

Remote clock offset: 0.184 ms

Below is generated by plot.py at 2019-01-17 08:19:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 523.20 Mbit/s

95th percentile per-packet one-way delay: 135.095 ms

Loss rate: 0.16%

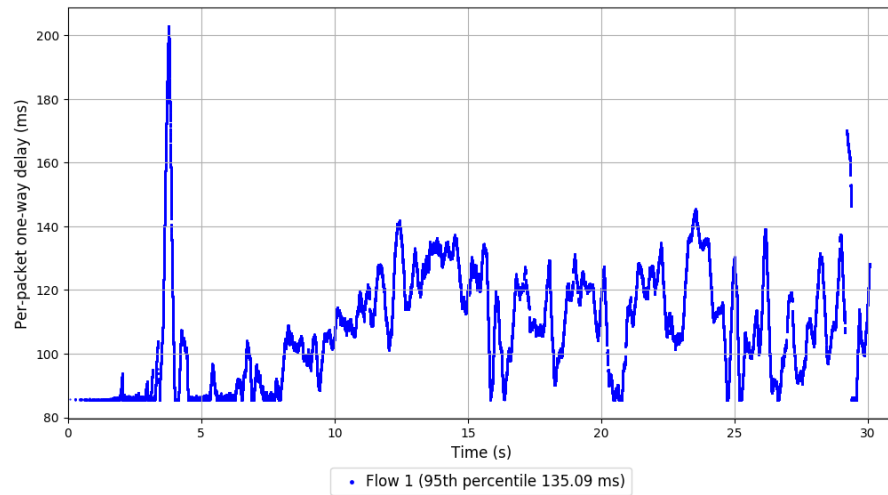
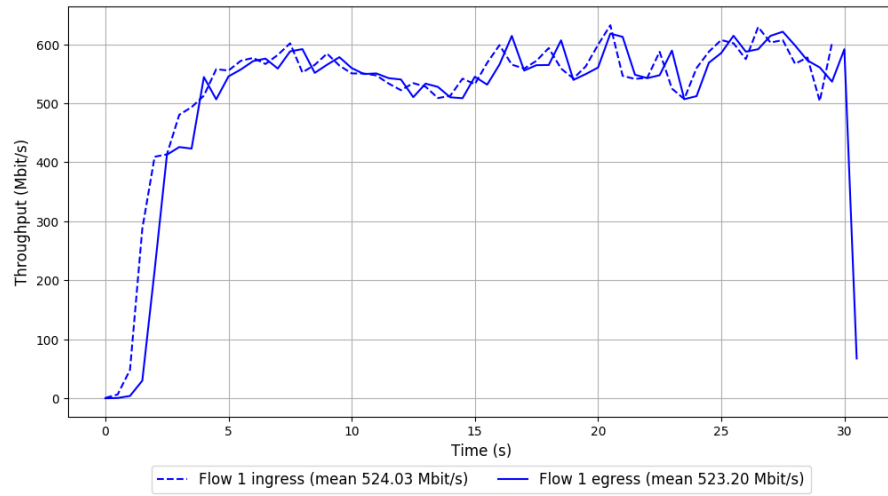
-- Flow 1:

Average throughput: 523.20 Mbit/s

95th percentile per-packet one-way delay: 135.095 ms

Loss rate: 0.16%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-01-17 07:17:14

End at: 2019-01-17 07:17:44

Local clock offset: 0.098 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2019-01-17 08:20:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 538.99 Mbit/s

95th percentile per-packet one-way delay: 164.213 ms

Loss rate: 0.05%

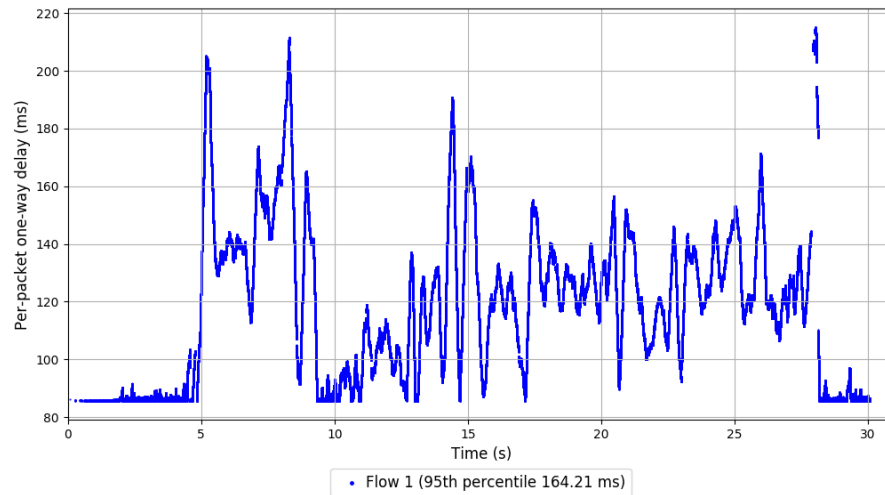
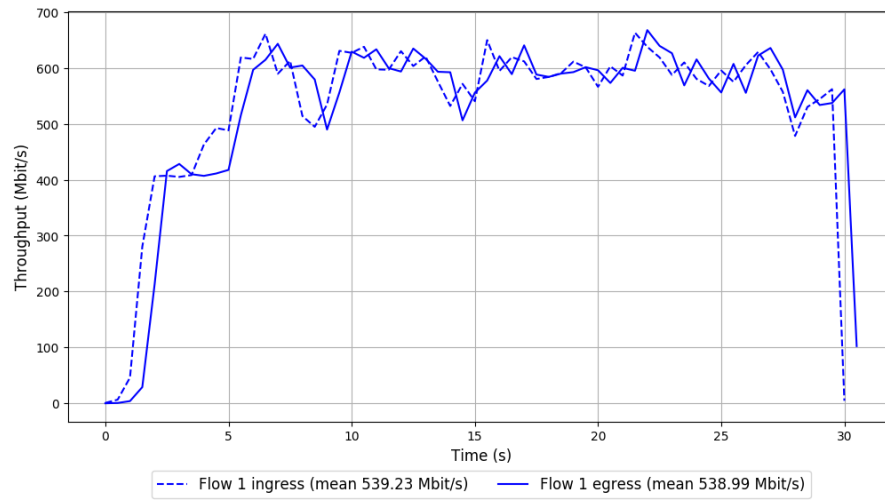
-- Flow 1:

Average throughput: 538.99 Mbit/s

95th percentile per-packet one-way delay: 164.213 ms

Loss rate: 0.05%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-01-17 05:34:40

End at: 2019-01-17 05:35:10

Local clock offset: 0.358 ms

Remote clock offset: 0.904 ms

Below is generated by plot.py at 2019-01-17 08:29:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 912.07 Mbit/s

95th percentile per-packet one-way delay: 136.728 ms

Loss rate: 0.33%

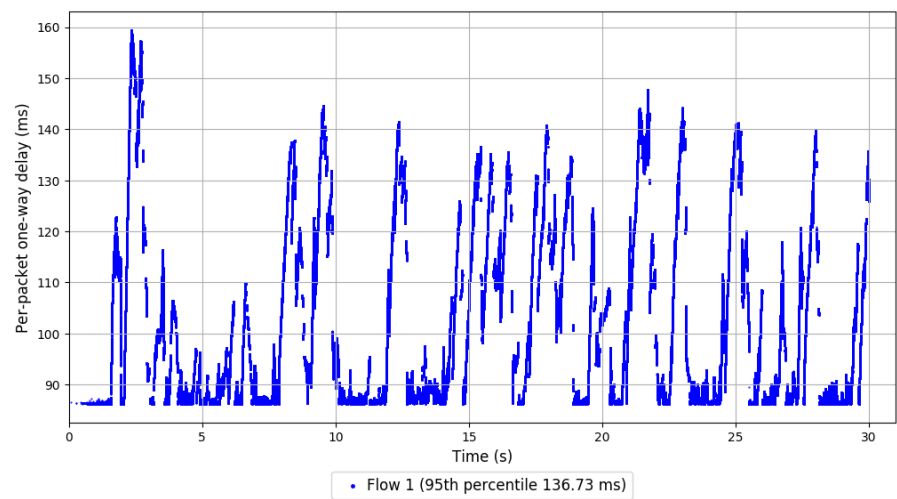
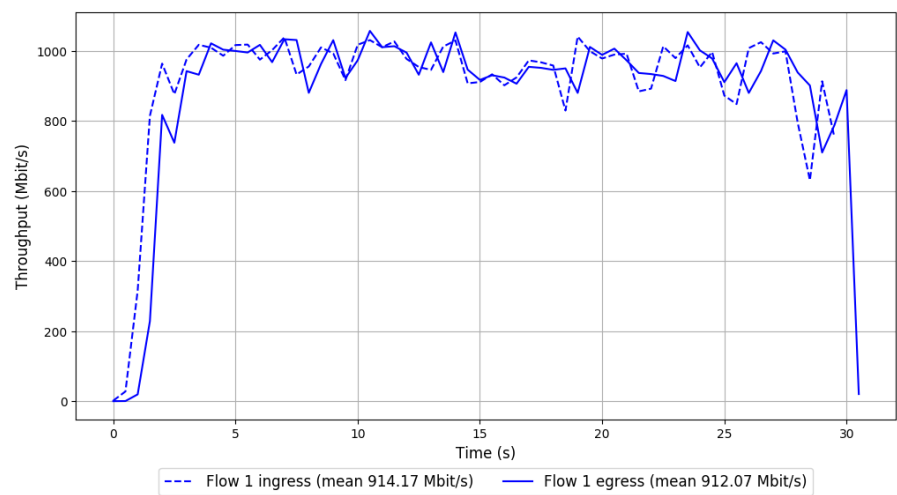
-- Flow 1:

Average throughput: 912.07 Mbit/s

95th percentile per-packet one-way delay: 136.728 ms

Loss rate: 0.33%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-01-17 06:06:20

End at: 2019-01-17 06:06:50

Local clock offset: 0.227 ms

Remote clock offset: 0.335 ms

Below is generated by plot.py at 2019-01-17 08:37:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 905.51 Mbit/s

95th percentile per-packet one-way delay: 129.576 ms

Loss rate: 0.28%

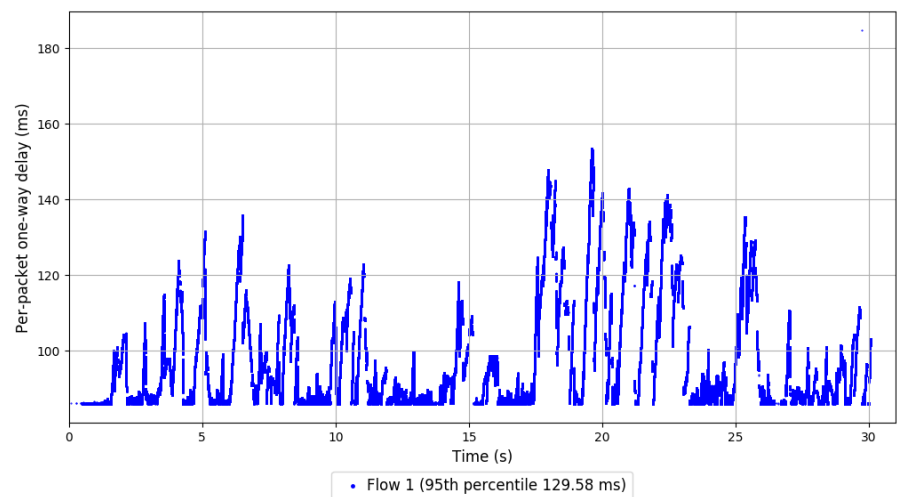
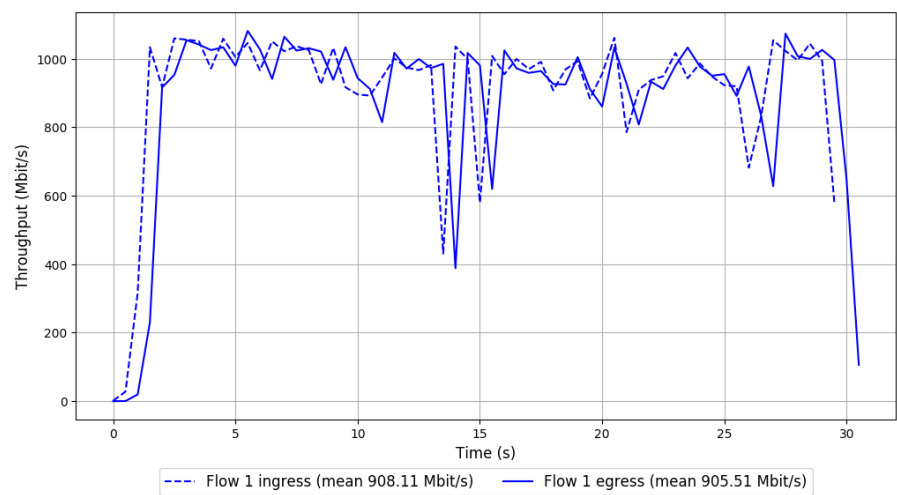
-- Flow 1:

Average throughput: 905.51 Mbit/s

95th percentile per-packet one-way delay: 129.576 ms

Loss rate: 0.28%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-01-17 06:37:34

End at: 2019-01-17 06:38:04

Local clock offset: 0.41 ms

Remote clock offset: 0.169 ms

Below is generated by plot.py at 2019-01-17 08:39:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 920.98 Mbit/s

95th percentile per-packet one-way delay: 134.921 ms

Loss rate: 0.81%

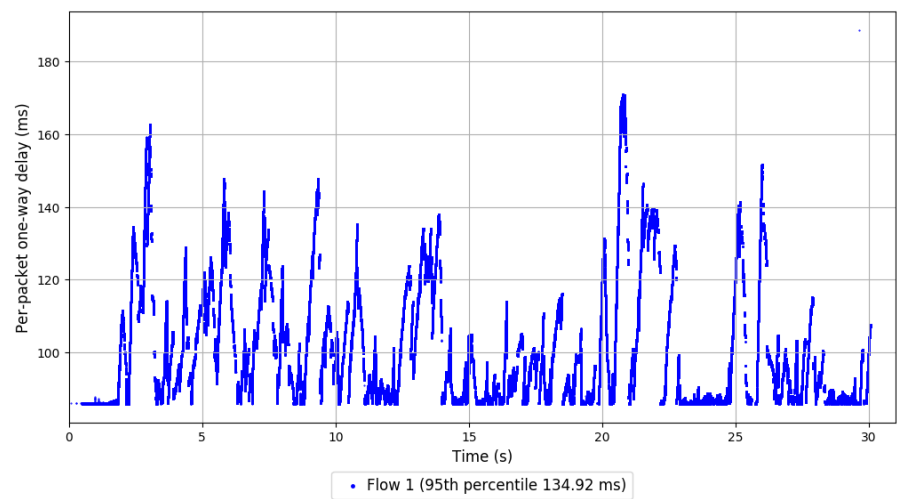
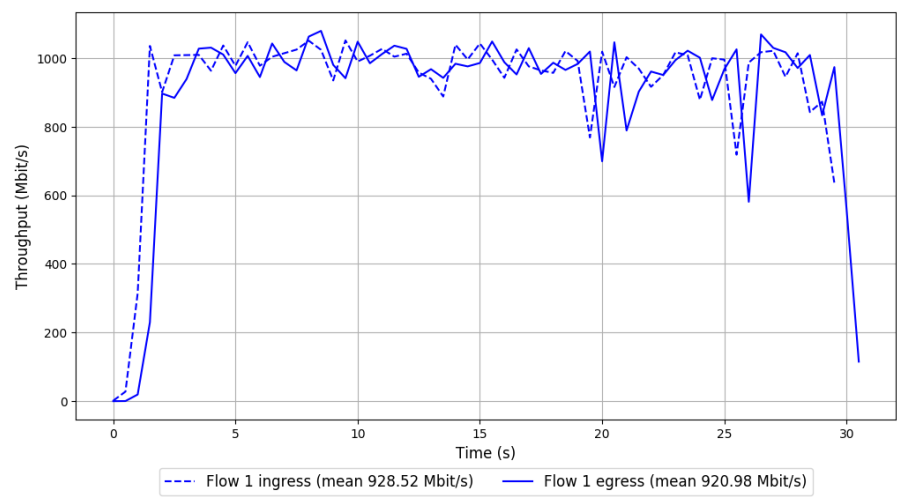
-- Flow 1:

Average throughput: 920.98 Mbit/s

95th percentile per-packet one-way delay: 134.921 ms

Loss rate: 0.81%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-01-17 07:09:09

End at: 2019-01-17 07:09:39

Local clock offset: -0.095 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2019-01-17 08:40:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 931.64 Mbit/s

95th percentile per-packet one-way delay: 134.198 ms

Loss rate: 0.27%

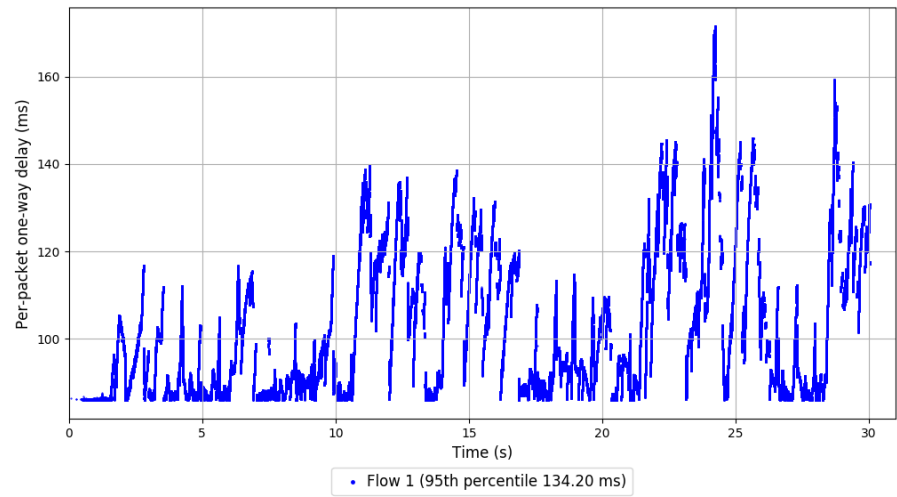
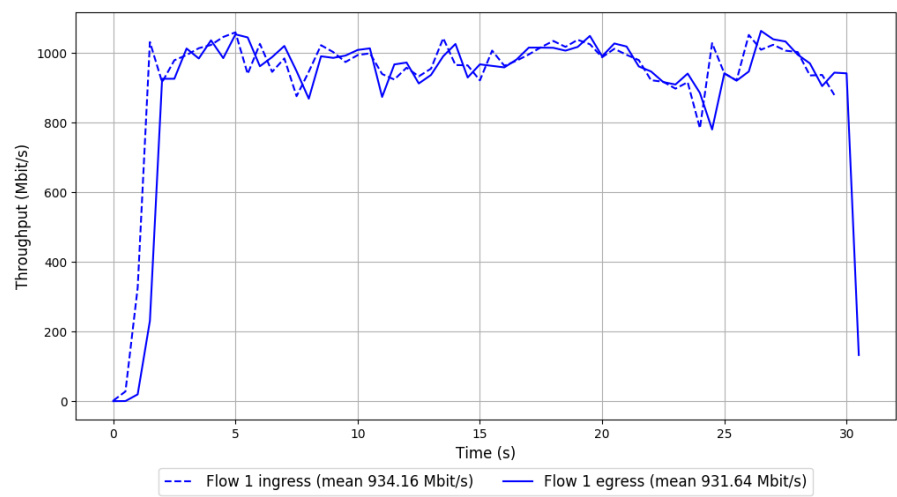
-- Flow 1:

Average throughput: 931.64 Mbit/s

95th percentile per-packet one-way delay: 134.198 ms

Loss rate: 0.27%

Run 4: Report of FillP — Data Link

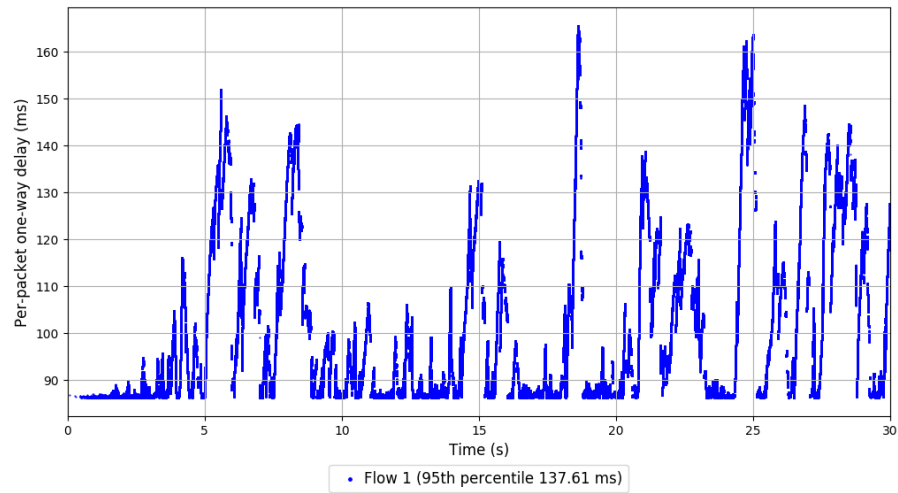
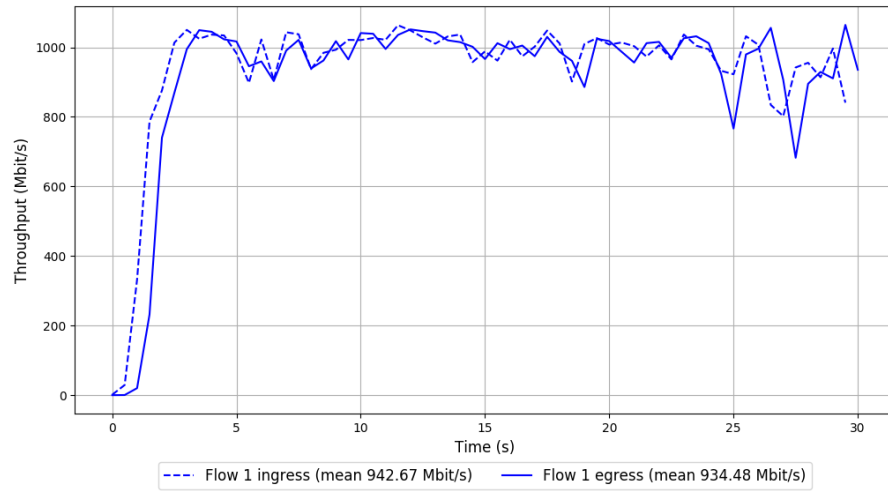


Run 5: Statistics of FillP

Start at: 2019-01-17 07:41:00
End at: 2019-01-17 07:41:30
Local clock offset: -0.396 ms
Remote clock offset: -0.049 ms

Below is generated by plot.py at 2019-01-17 08:40:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 934.48 Mbit/s
95th percentile per-packet one-way delay: 137.614 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 934.48 Mbit/s
95th percentile per-packet one-way delay: 137.614 ms
Loss rate: 0.87%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-01-17 05:37:58

End at: 2019-01-17 05:38:28

Local clock offset: 0.719 ms

Remote clock offset: 0.922 ms

Below is generated by plot.py at 2019-01-17 08:40:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 916.37 Mbit/s

95th percentile per-packet one-way delay: 126.861 ms

Loss rate: 0.01%

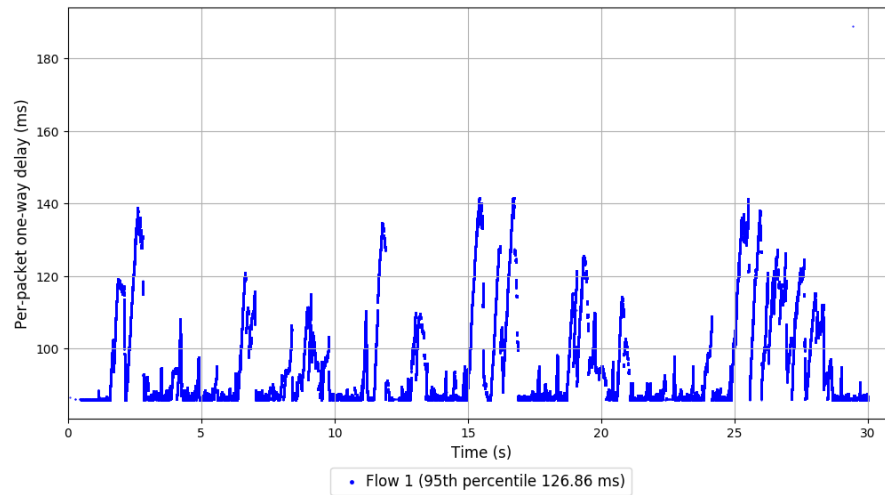
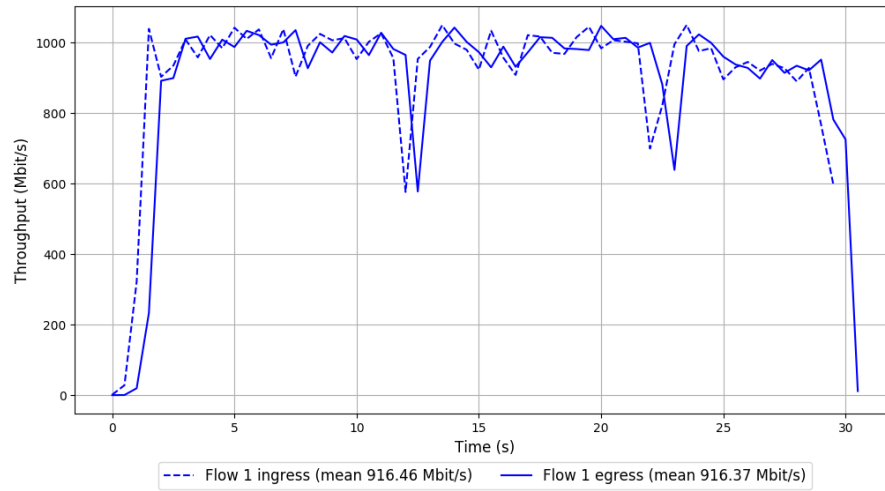
-- Flow 1:

Average throughput: 916.37 Mbit/s

95th percentile per-packet one-way delay: 126.861 ms

Loss rate: 0.01%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-01-17 06:09:38

End at: 2019-01-17 06:10:08

Local clock offset: 0.192 ms

Remote clock offset: 0.39 ms

Below is generated by plot.py at 2019-01-17 08:41:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 924.34 Mbit/s

95th percentile per-packet one-way delay: 121.768 ms

Loss rate: 0.20%

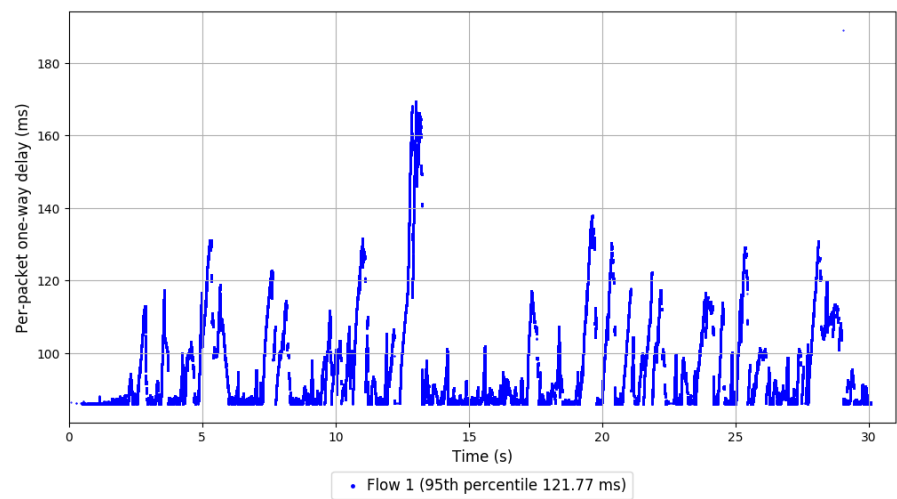
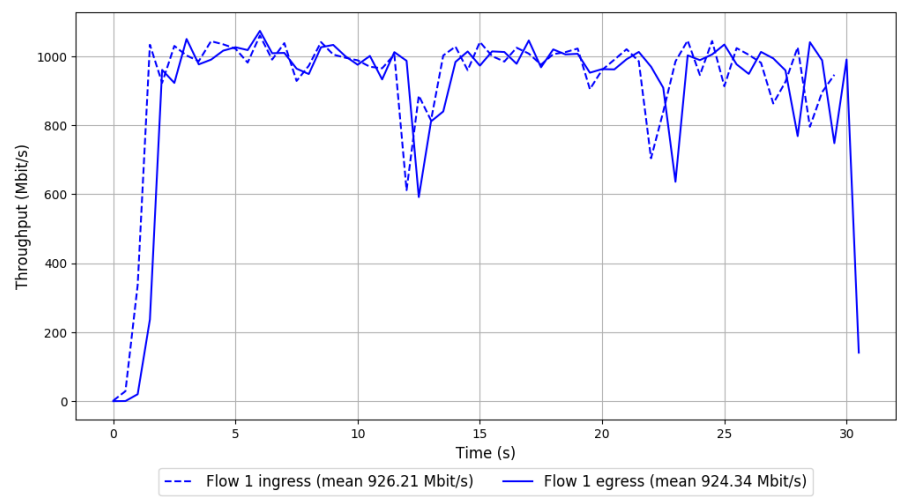
-- Flow 1:

Average throughput: 924.34 Mbit/s

95th percentile per-packet one-way delay: 121.768 ms

Loss rate: 0.20%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-01-17 06:40:51

End at: 2019-01-17 06:41:21

Local clock offset: -0.182 ms

Remote clock offset: 0.307 ms

Below is generated by plot.py at 2019-01-17 08:41:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 911.11 Mbit/s

95th percentile per-packet one-way delay: 141.924 ms

Loss rate: 0.99%

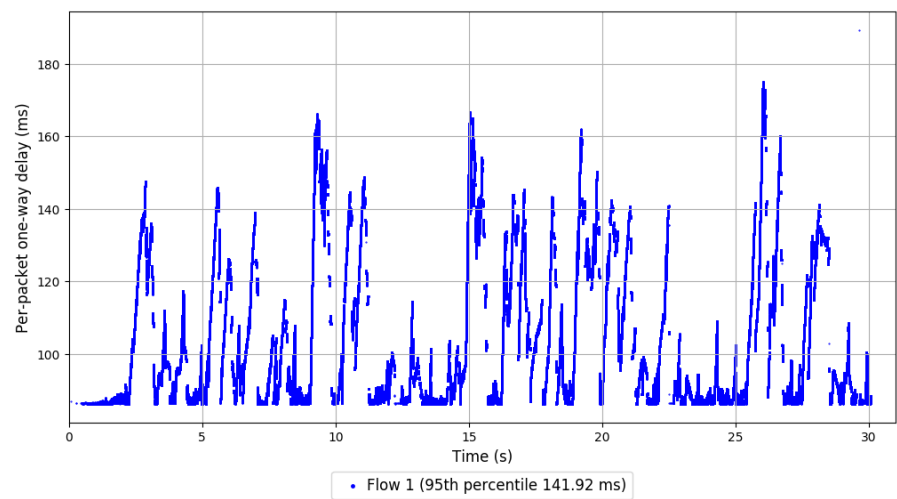
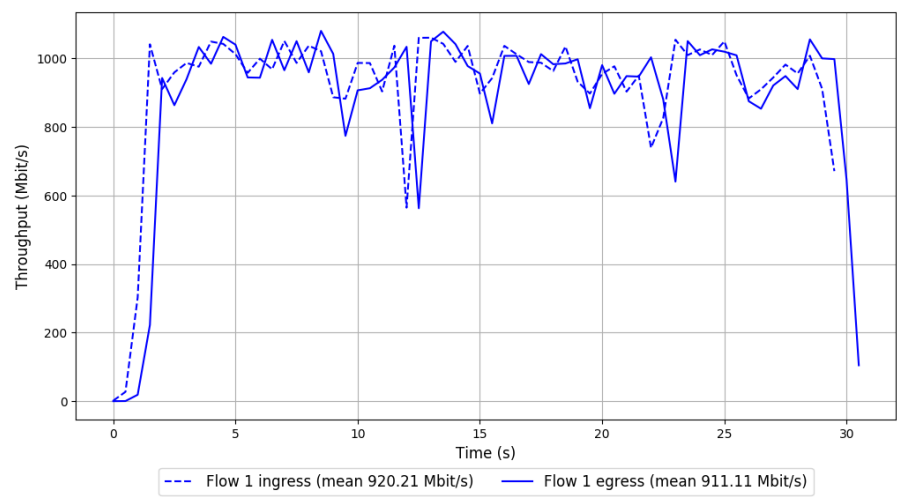
-- Flow 1:

Average throughput: 911.11 Mbit/s

95th percentile per-packet one-way delay: 141.924 ms

Loss rate: 0.99%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-01-17 07:12:27

End at: 2019-01-17 07:12:57

Local clock offset: -0.044 ms

Remote clock offset: 0.18 ms

Below is generated by plot.py at 2019-01-17 08:53:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 929.99 Mbit/s

95th percentile per-packet one-way delay: 112.916 ms

Loss rate: 0.29%

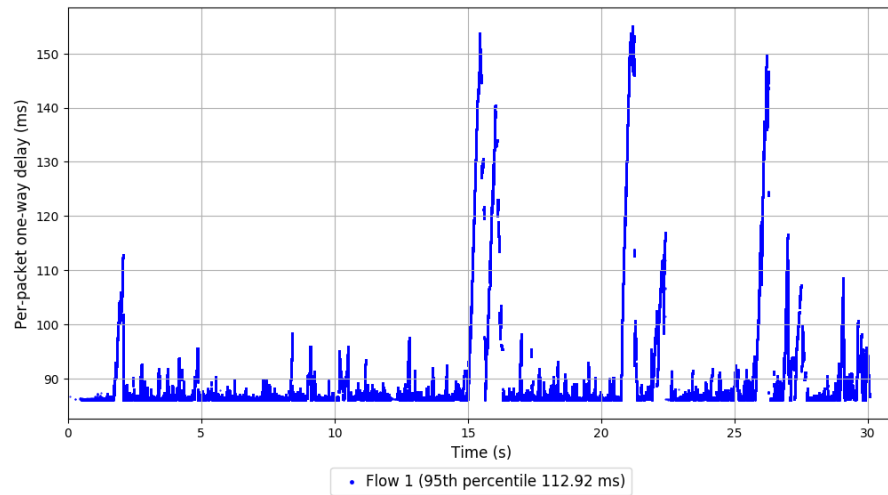
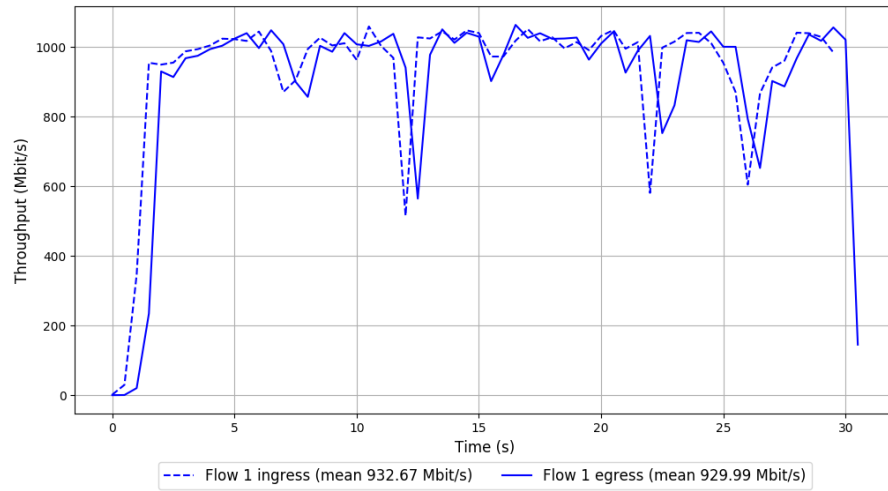
-- Flow 1:

Average throughput: 929.99 Mbit/s

95th percentile per-packet one-way delay: 112.916 ms

Loss rate: 0.29%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-01-17 07:44:22

End at: 2019-01-17 07:44:52

Local clock offset: 0.001 ms

Remote clock offset: -0.037 ms

Below is generated by plot.py at 2019-01-17 08:58:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 938.43 Mbit/s

95th percentile per-packet one-way delay: 139.343 ms

Loss rate: 0.56%

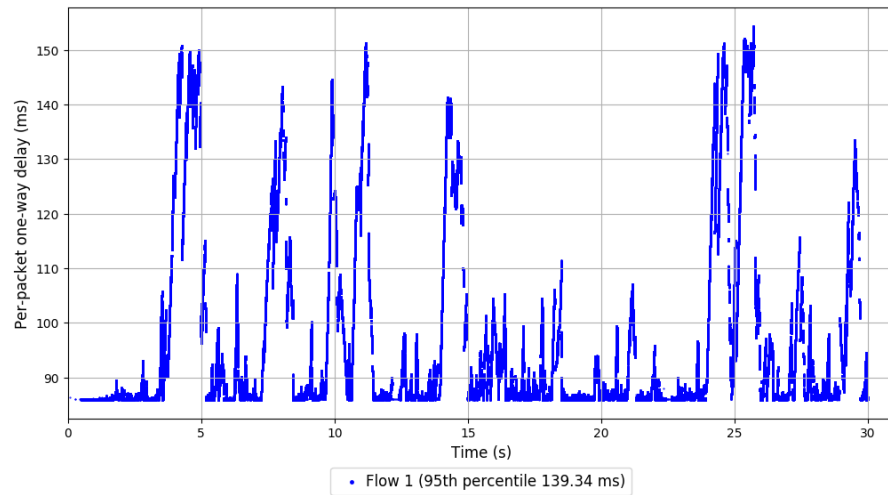
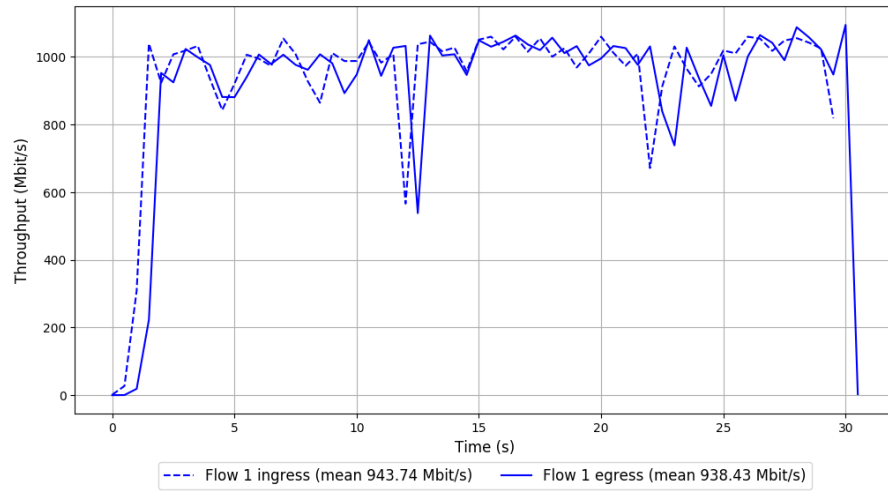
-- Flow 1:

Average throughput: 938.43 Mbit/s

95th percentile per-packet one-way delay: 139.343 ms

Loss rate: 0.56%

Run 5: Report of FillP-Sheep — Data Link

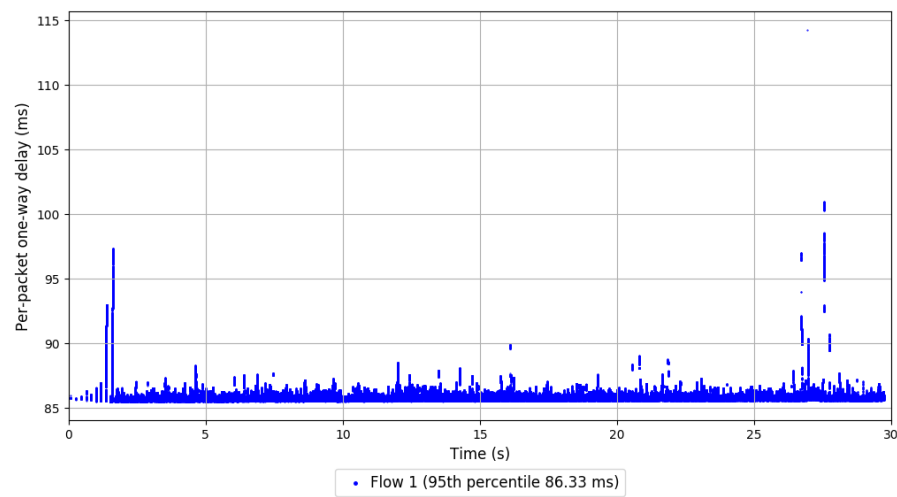
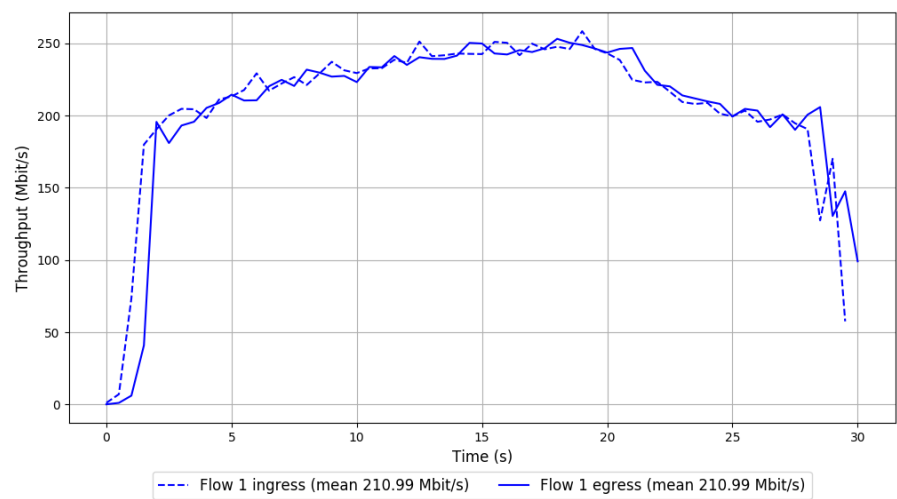


```
Run 1: Statistics of Indigo

Start at: 2019-01-17 05:12:54
End at: 2019-01-17 05:13:24
Local clock offset: 1.362 ms
Remote clock offset: 2.843 ms

# Below is generated by plot.py at 2019-01-17 08:59:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 210.99 Mbit/s
95th percentile per-packet one-way delay: 86.332 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 210.99 Mbit/s
95th percentile per-packet one-way delay: 86.332 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-01-17 05:44:27

End at: 2019-01-17 05:44:57

Local clock offset: 0.584 ms

Remote clock offset: 0.745 ms

Below is generated by plot.py at 2019-01-17 08:59:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.10 Mbit/s

95th percentile per-packet one-way delay: 86.834 ms

Loss rate: 0.00%

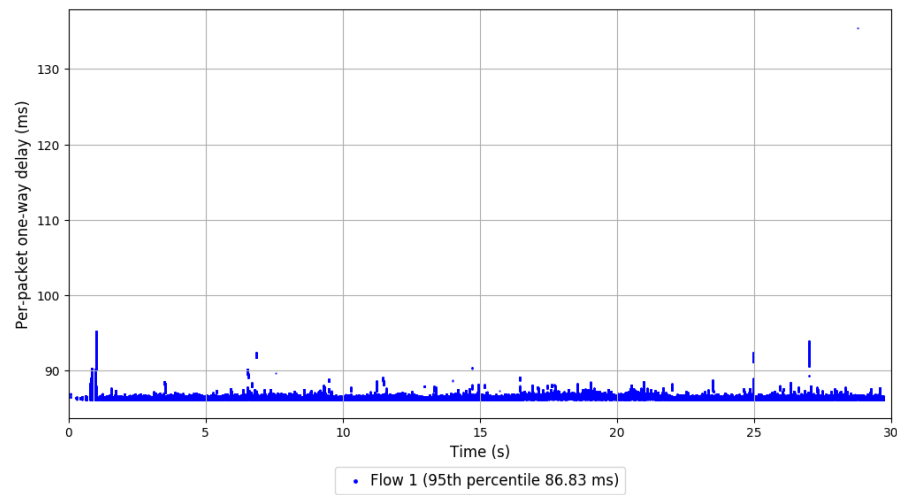
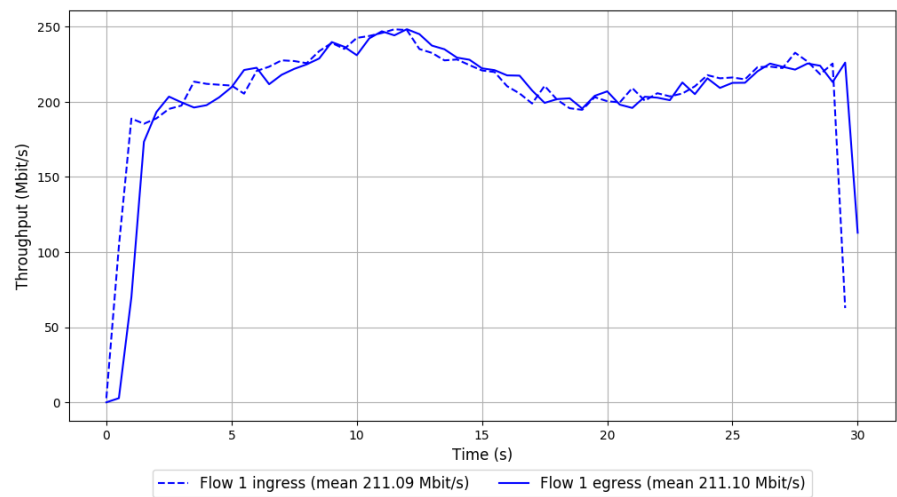
-- Flow 1:

Average throughput: 211.10 Mbit/s

95th percentile per-packet one-way delay: 86.834 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-01-17 06:15:53

End at: 2019-01-17 06:16:23

Local clock offset: 0.527 ms

Remote clock offset: 0.448 ms

Below is generated by plot.py at 2019-01-17 08:59:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.49 Mbit/s

95th percentile per-packet one-way delay: 86.399 ms

Loss rate: 0.00%

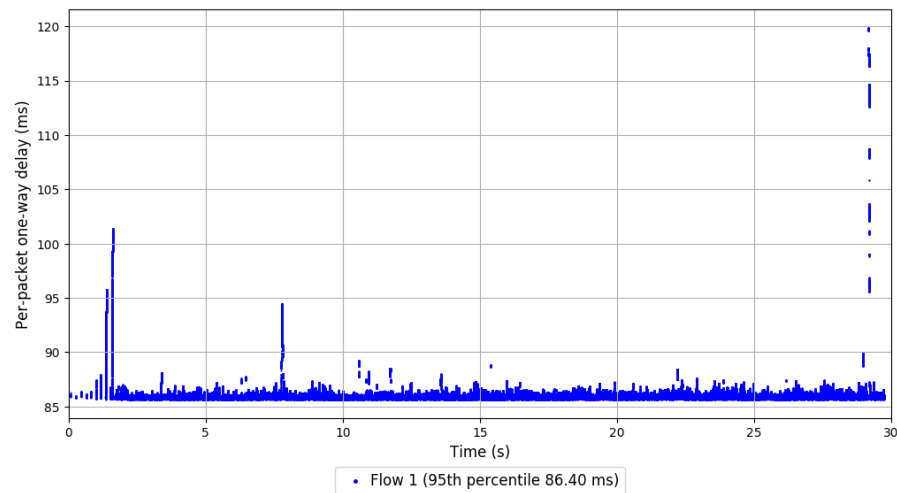
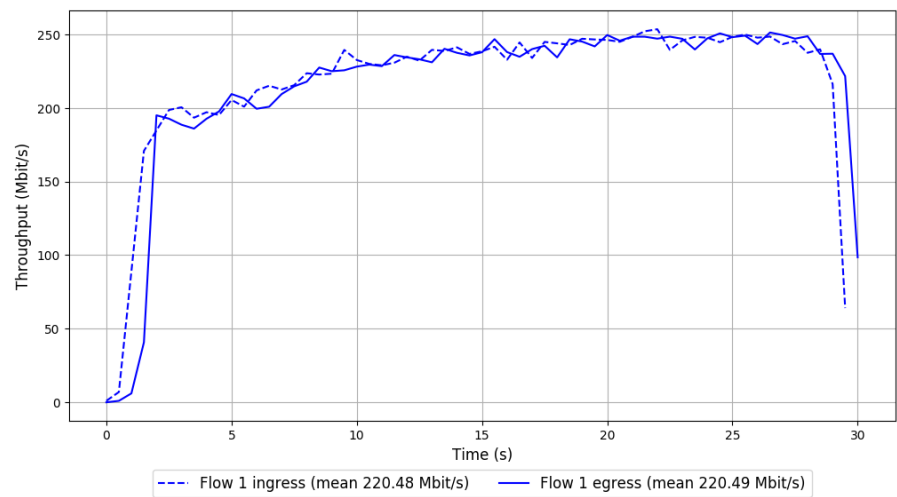
-- Flow 1:

Average throughput: 220.49 Mbit/s

95th percentile per-packet one-way delay: 86.399 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-01-17 06:47:23

End at: 2019-01-17 06:47:53

Local clock offset: -0.005 ms

Remote clock offset: 0.203 ms

Below is generated by plot.py at 2019-01-17 08:59:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.61 Mbit/s

95th percentile per-packet one-way delay: 86.586 ms

Loss rate: 0.00%

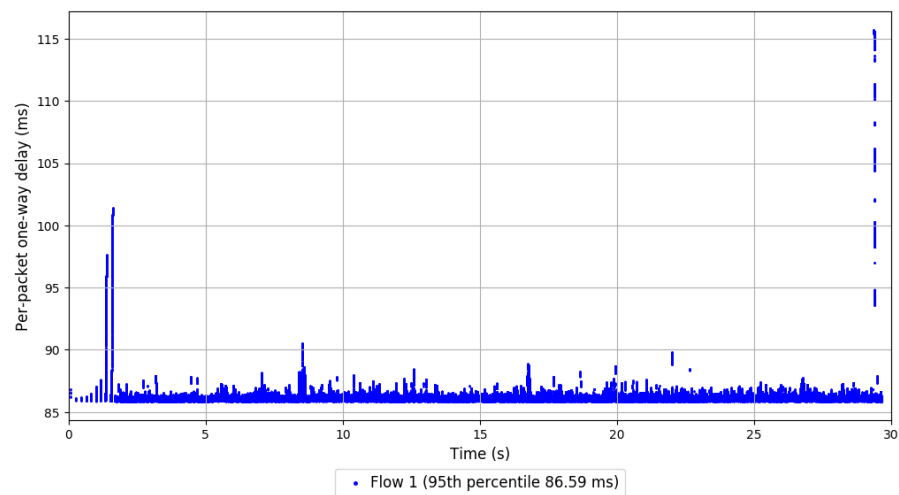
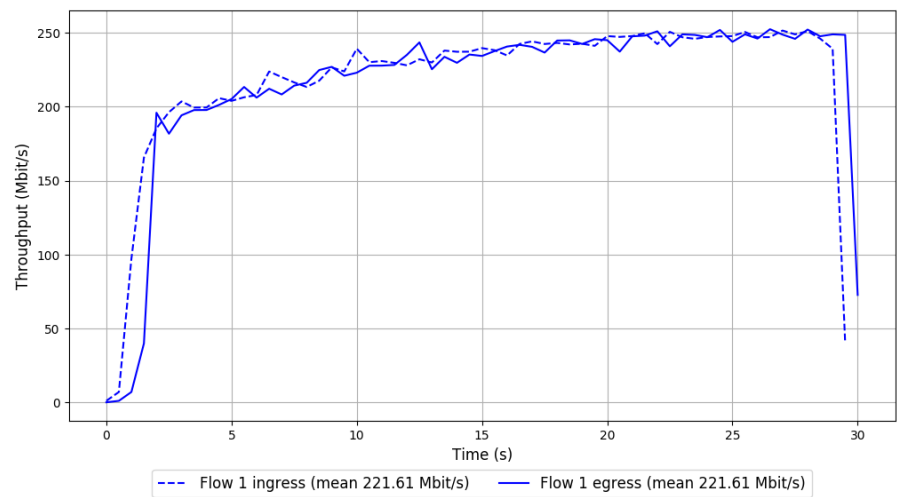
-- Flow 1:

Average throughput: 221.61 Mbit/s

95th percentile per-packet one-way delay: 86.586 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-01-17 07:18:52

End at: 2019-01-17 07:19:22

Local clock offset: 0.082 ms

Remote clock offset: 0.04 ms

Below is generated by plot.py at 2019-01-17 08:59:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.84 Mbit/s

95th percentile per-packet one-way delay: 86.611 ms

Loss rate: 0.00%

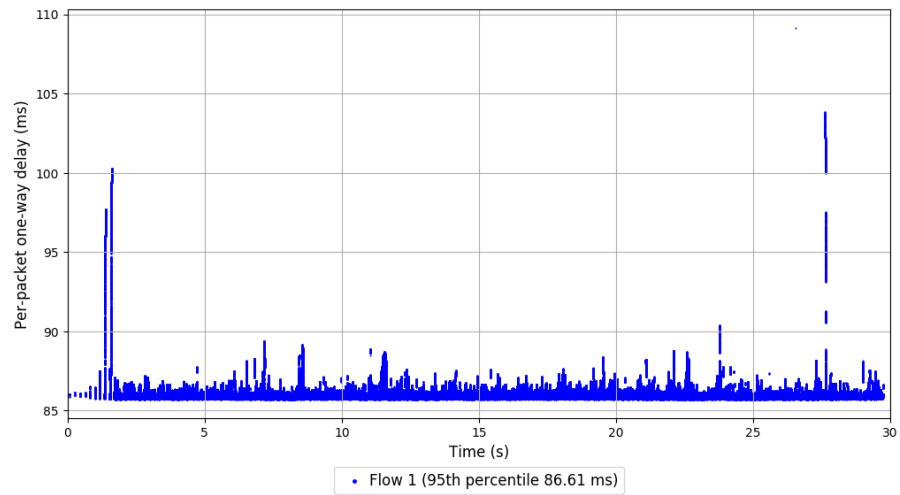
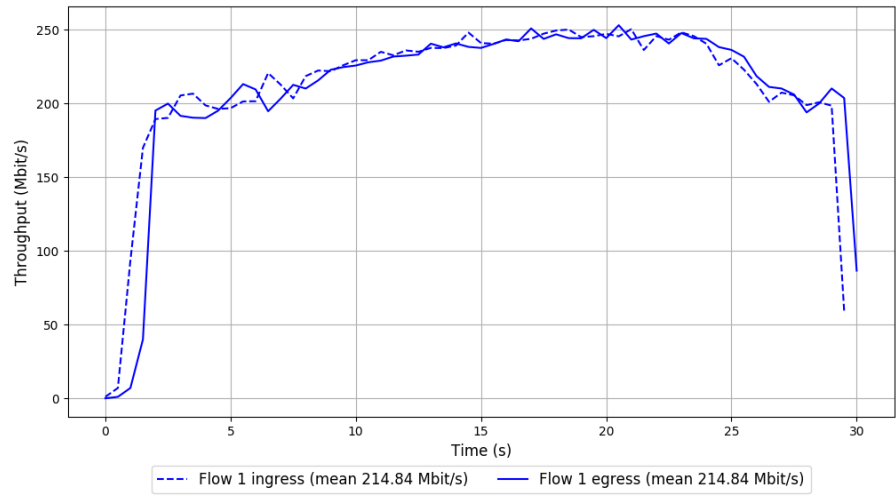
-- Flow 1:

Average throughput: 214.84 Mbit/s

95th percentile per-packet one-way delay: 86.611 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-01-17 05:39:45

End at: 2019-01-17 05:40:15

Local clock offset: 0.558 ms

Remote clock offset: 0.99 ms

Below is generated by plot.py at 2019-01-17 08:59:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 592.49 Mbit/s

95th percentile per-packet one-way delay: 176.547 ms

Loss rate: 0.56%

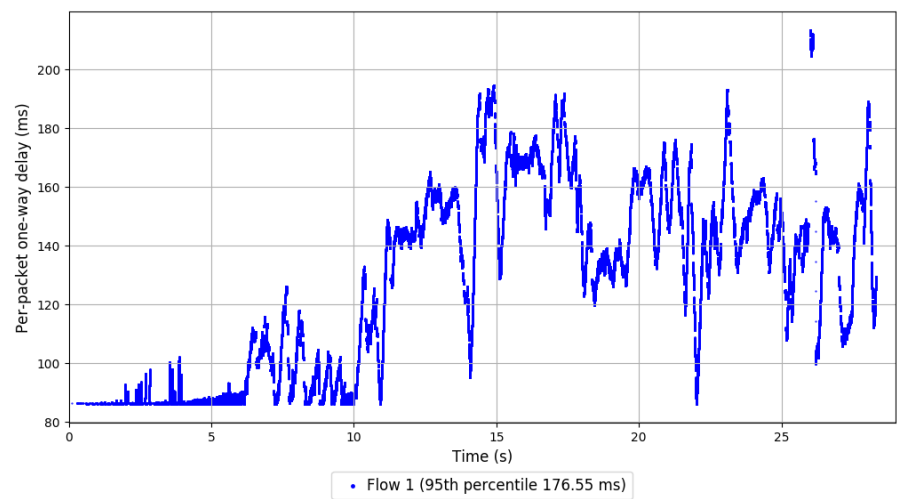
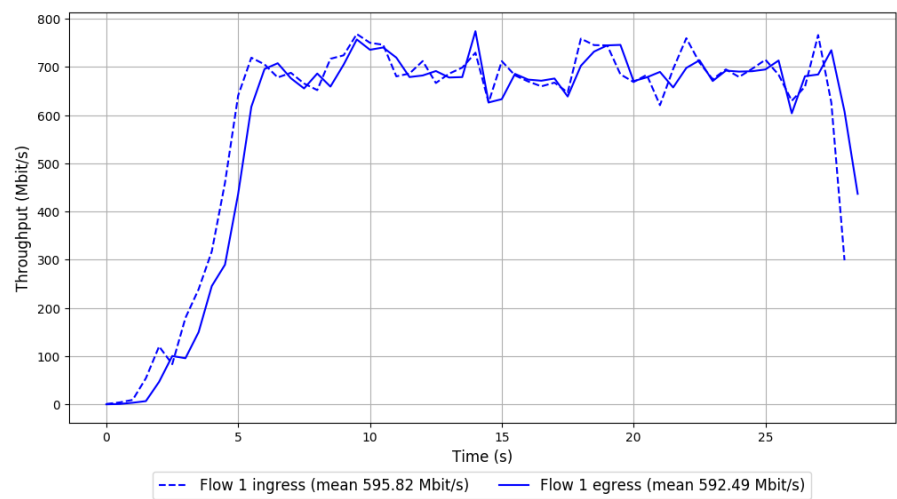
-- Flow 1:

Average throughput: 592.49 Mbit/s

95th percentile per-packet one-way delay: 176.547 ms

Loss rate: 0.56%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-01-17 06:11:27

End at: 2019-01-17 06:11:57

Local clock offset: 0.292 ms

Remote clock offset: 0.373 ms

Below is generated by plot.py at 2019-01-17 08:59:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 609.54 Mbit/s

95th percentile per-packet one-way delay: 139.583 ms

Loss rate: 0.18%

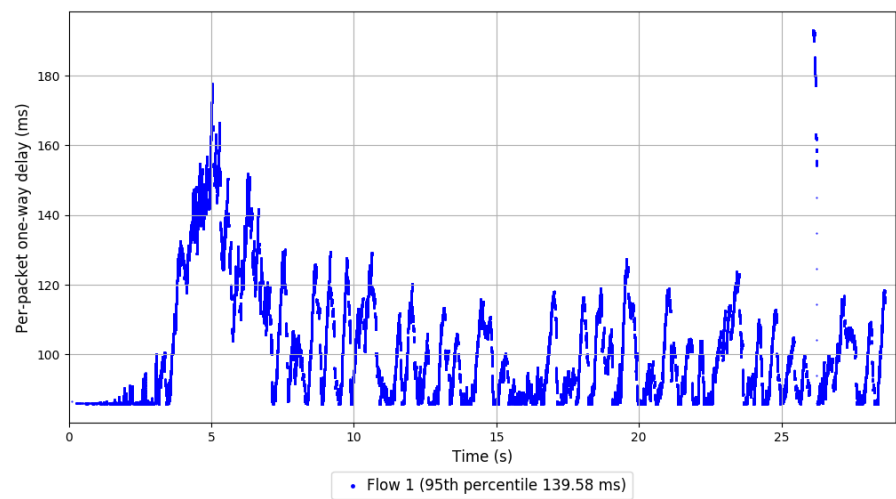
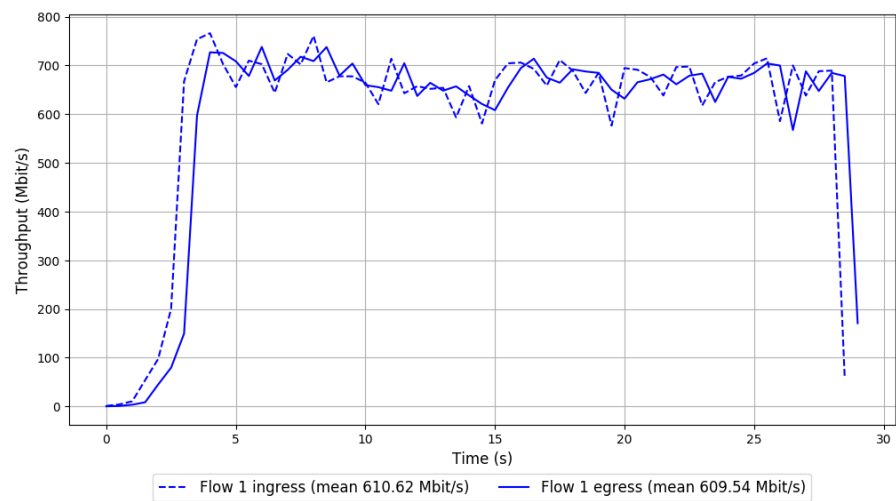
-- Flow 1:

Average throughput: 609.54 Mbit/s

95th percentile per-packet one-way delay: 139.583 ms

Loss rate: 0.18%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-01-17 06:42:40

End at: 2019-01-17 06:43:10

Local clock offset: -0.229 ms

Remote clock offset: 0.183 ms

Below is generated by plot.py at 2019-01-17 08:59:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 623.67 Mbit/s

95th percentile per-packet one-way delay: 147.965 ms

Loss rate: 0.04%

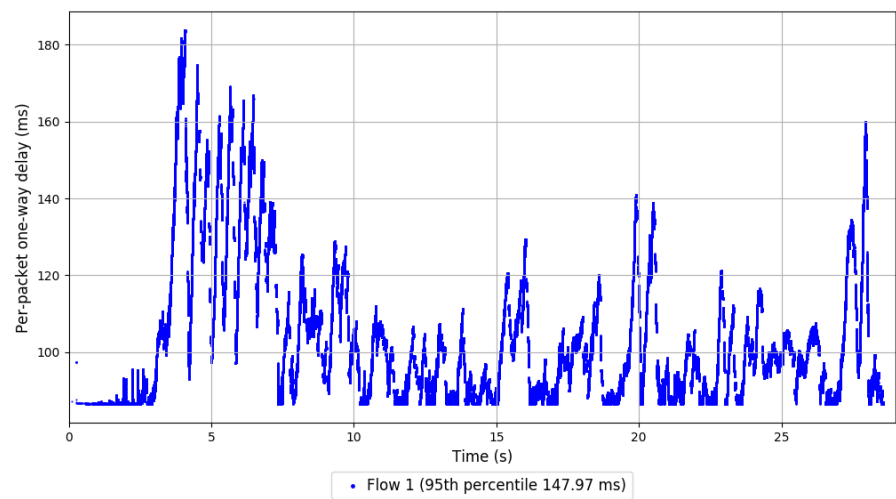
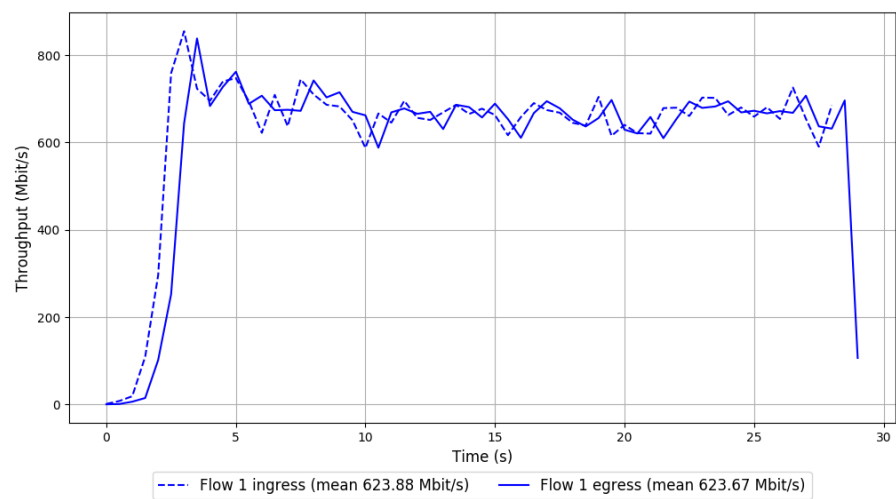
-- Flow 1:

Average throughput: 623.67 Mbit/s

95th percentile per-packet one-way delay: 147.965 ms

Loss rate: 0.04%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-01-17 07:14:15

End at: 2019-01-17 07:14:45

Local clock offset: -0.14 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2019-01-17 08:59:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 617.12 Mbit/s

95th percentile per-packet one-way delay: 132.228 ms

Loss rate: 0.01%

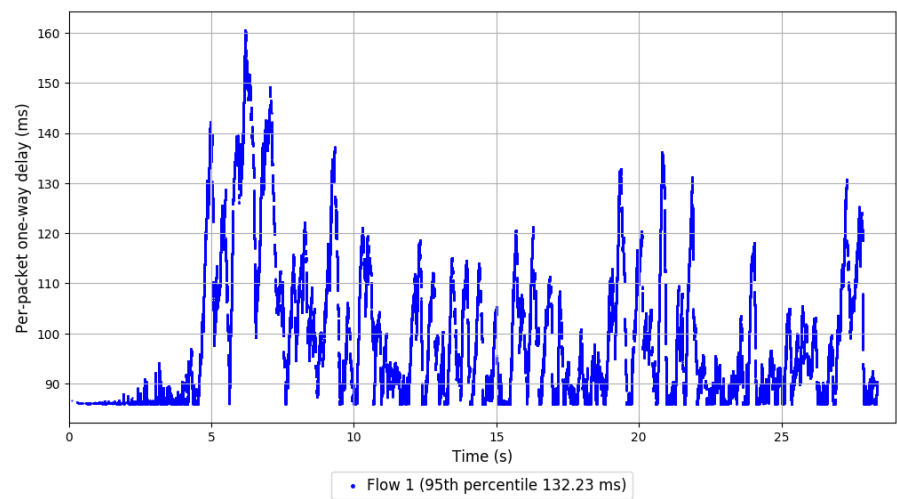
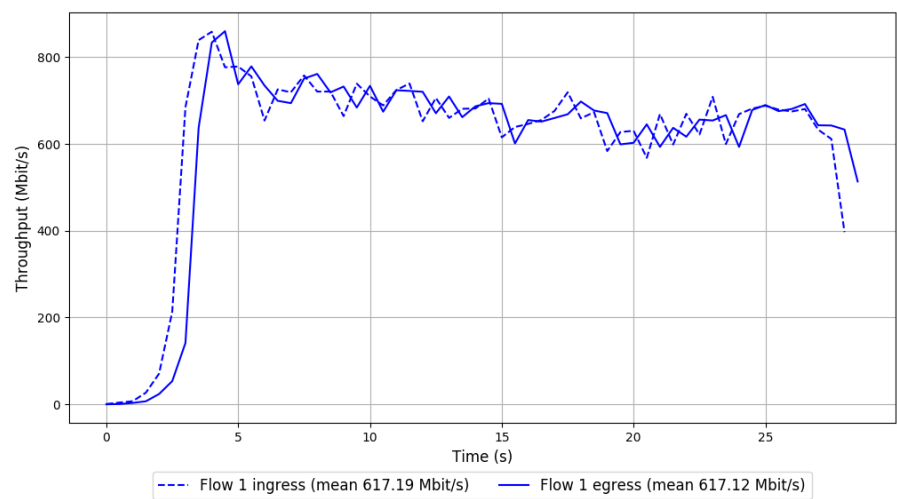
-- Flow 1:

Average throughput: 617.12 Mbit/s

95th percentile per-packet one-way delay: 132.228 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-01-17 07:46:12

End at: 2019-01-17 07:46:42

Local clock offset: 0.328 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2019-01-17 09:00:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 624.10 Mbit/s

95th percentile per-packet one-way delay: 132.758 ms

Loss rate: 0.00%

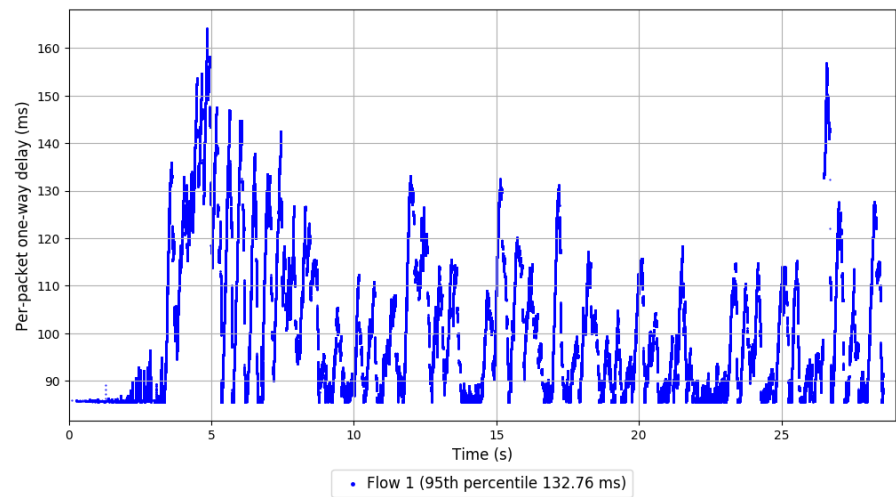
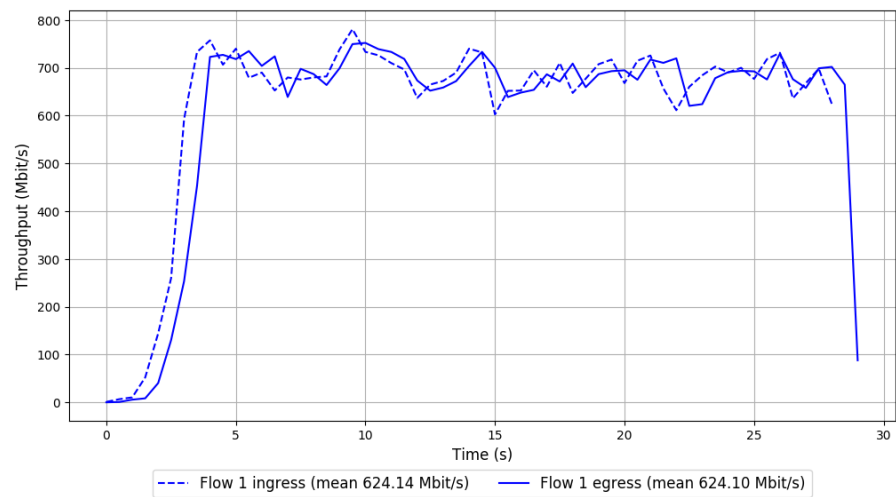
-- Flow 1:

Average throughput: 624.10 Mbit/s

95th percentile per-packet one-way delay: 132.758 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-01-17 05:20:18

End at: 2019-01-17 05:20:48

Local clock offset: 0.449 ms

Remote clock offset: 1.465 ms

Below is generated by plot.py at 2019-01-17 09:00:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 633.39 Mbit/s

95th percentile per-packet one-way delay: 172.546 ms

Loss rate: 0.59%

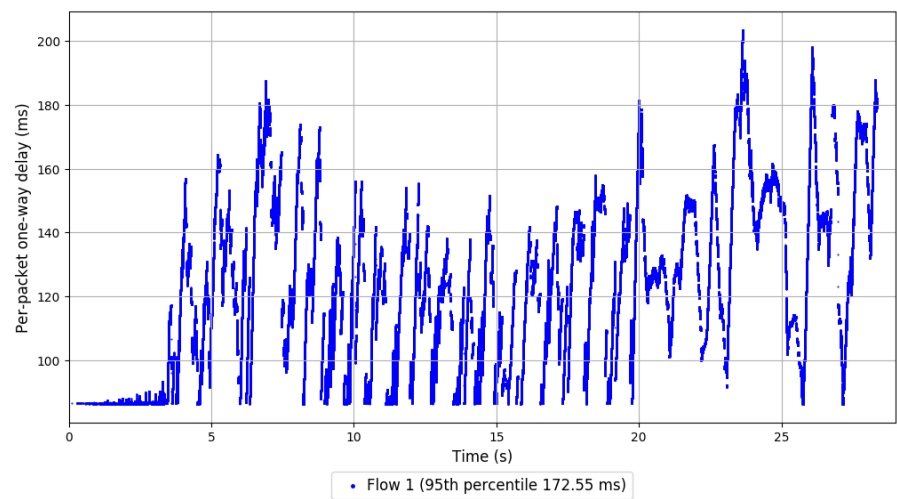
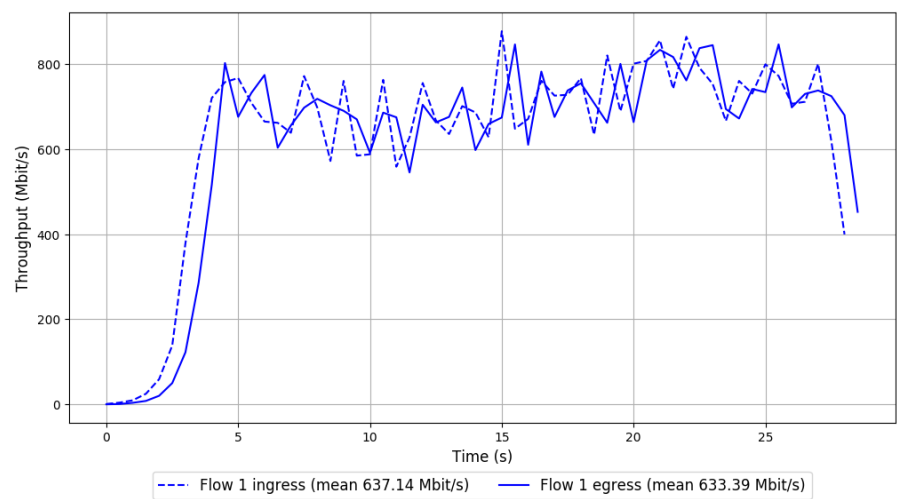
-- Flow 1:

Average throughput: 633.39 Mbit/s

95th percentile per-packet one-way delay: 172.546 ms

Loss rate: 0.59%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-01-17 05:51:45

End at: 2019-01-17 05:52:15

Local clock offset: 0.697 ms

Remote clock offset: 0.444 ms

Below is generated by plot.py at 2019-01-17 09:04:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 625.52 Mbit/s

95th percentile per-packet one-way delay: 182.334 ms

Loss rate: 1.27%

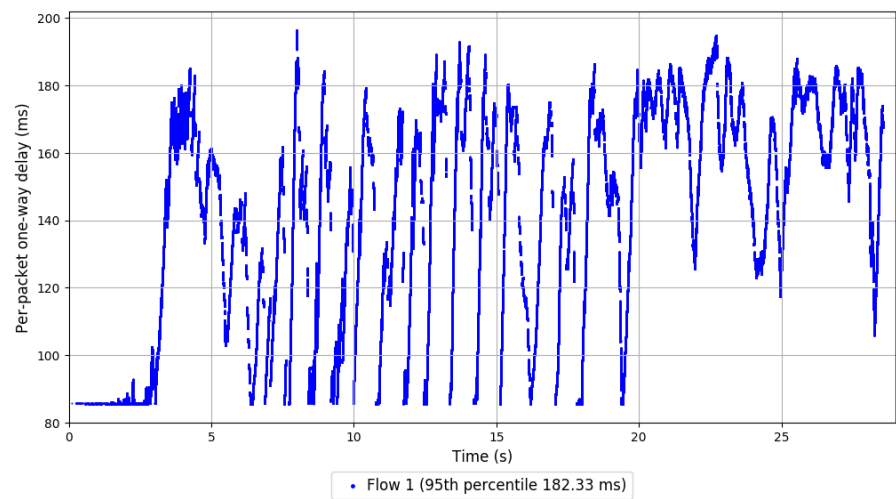
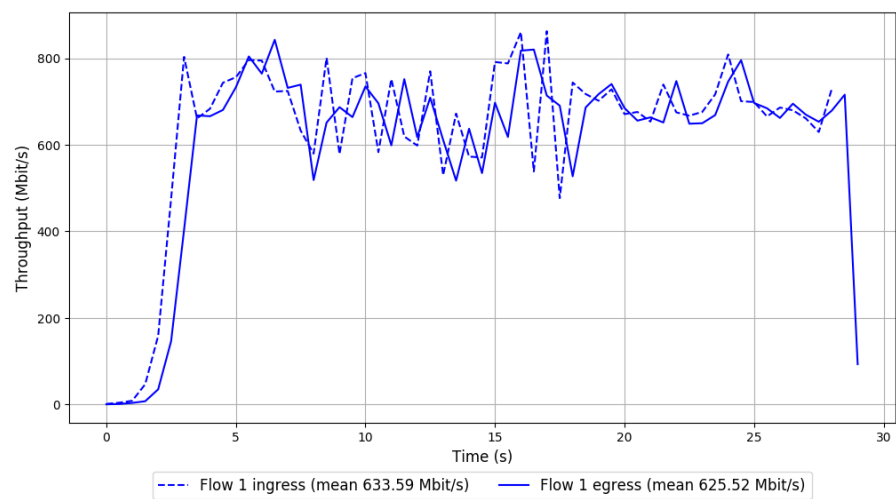
-- Flow 1:

Average throughput: 625.52 Mbit/s

95th percentile per-packet one-way delay: 182.334 ms

Loss rate: 1.27%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-01-17 06:23:13

End at: 2019-01-17 06:23:43

Local clock offset: 0.127 ms

Remote clock offset: 0.206 ms

Below is generated by plot.py at 2019-01-17 09:04:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 565.86 Mbit/s

95th percentile per-packet one-way delay: 176.465 ms

Loss rate: 2.11%

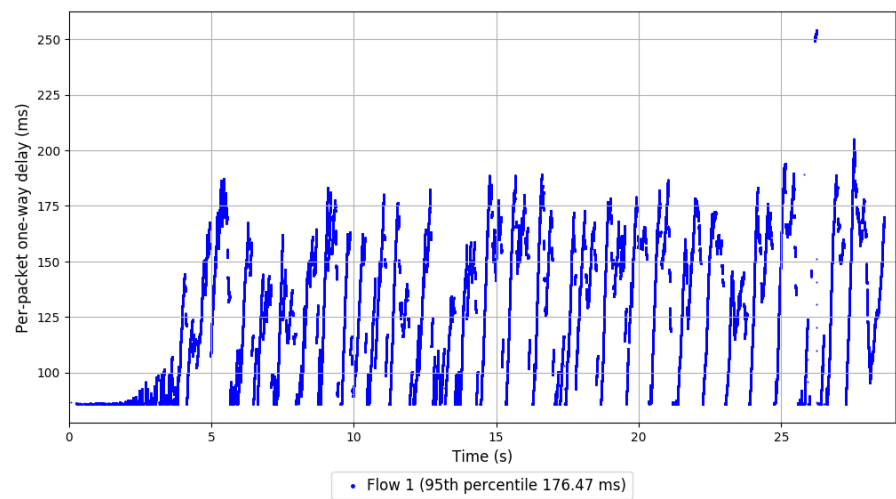
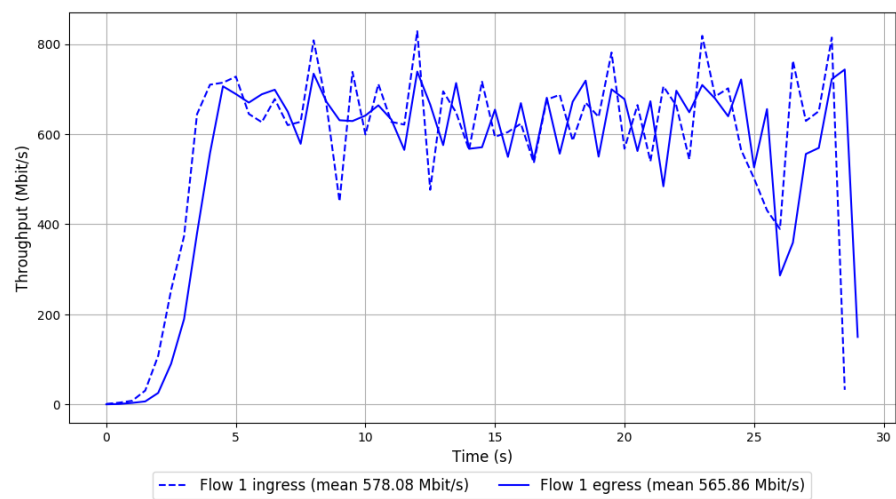
-- Flow 1:

Average throughput: 565.86 Mbit/s

95th percentile per-packet one-way delay: 176.465 ms

Loss rate: 2.11%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-01-17 06:54:37

End at: 2019-01-17 06:55:07

Local clock offset: 0.197 ms

Remote clock offset: 0.088 ms

Below is generated by plot.py at 2019-01-17 09:09:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 608.58 Mbit/s

95th percentile per-packet one-way delay: 173.461 ms

Loss rate: 1.24%

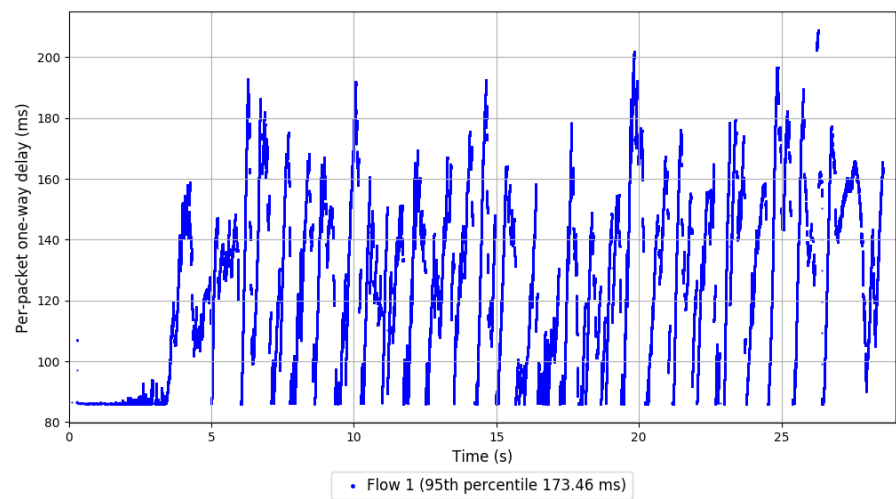
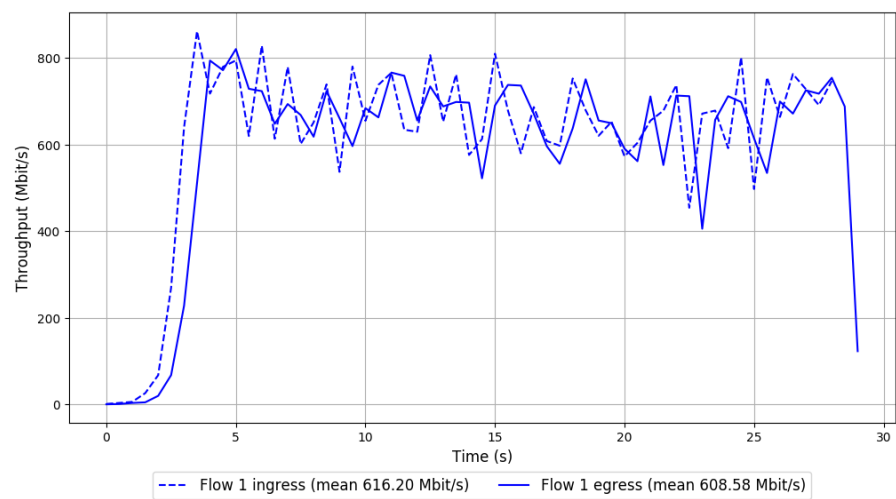
-- Flow 1:

Average throughput: 608.58 Mbit/s

95th percentile per-packet one-way delay: 173.461 ms

Loss rate: 1.24%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-01-17 07:26:04

End at: 2019-01-17 07:26:34

Local clock offset: 0.343 ms

Remote clock offset: 0.043 ms

Below is generated by plot.py at 2019-01-17 09:09:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 611.75 Mbit/s

95th percentile per-packet one-way delay: 181.172 ms

Loss rate: 1.36%

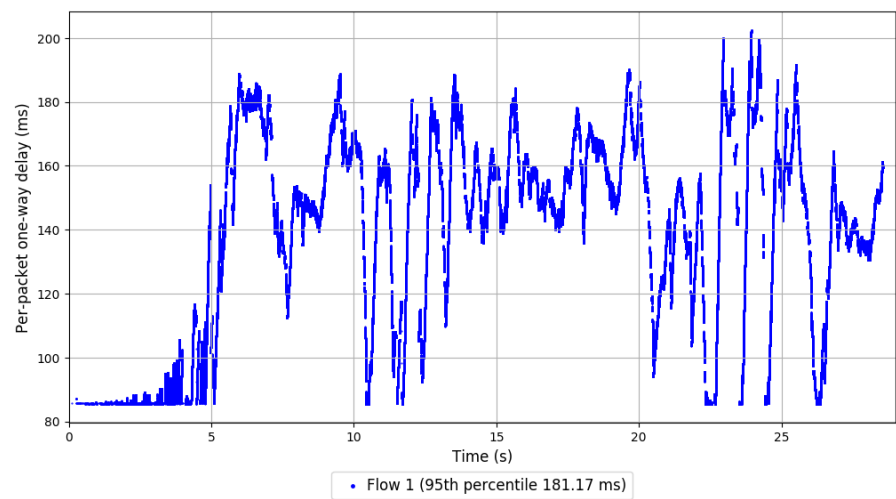
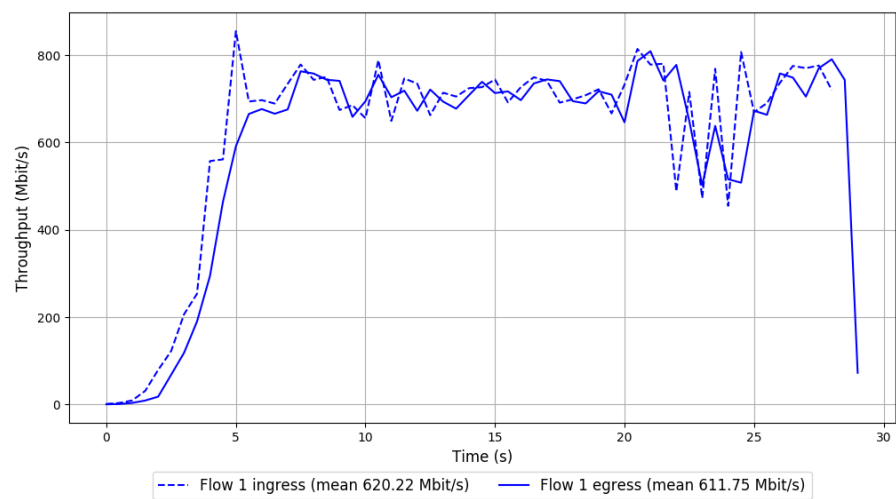
-- Flow 1:

Average throughput: 611.75 Mbit/s

95th percentile per-packet one-way delay: 181.172 ms

Loss rate: 1.36%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-01-17 05:17:15

End at: 2019-01-17 05:17:45

Local clock offset: 0.925 ms

Remote clock offset: 1.858 ms

Below is generated by plot.py at 2019-01-17 09:09:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 369.79 Mbit/s

95th percentile per-packet one-way delay: 114.286 ms

Loss rate: 0.04%

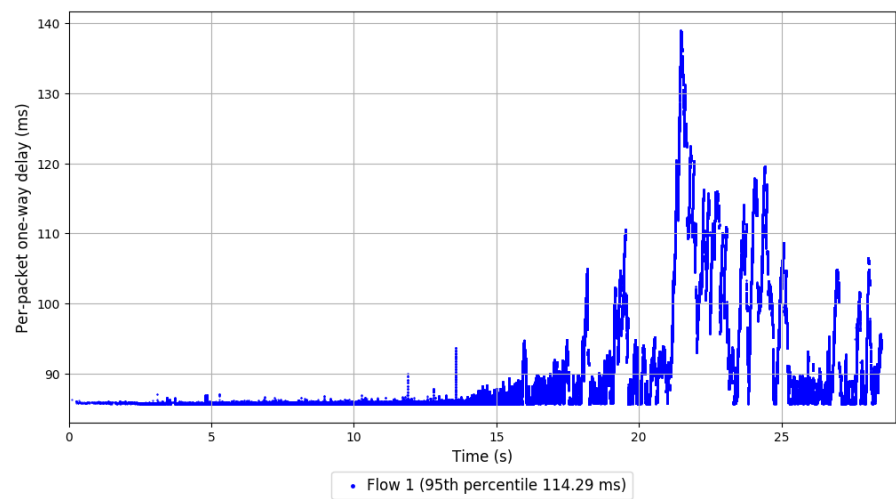
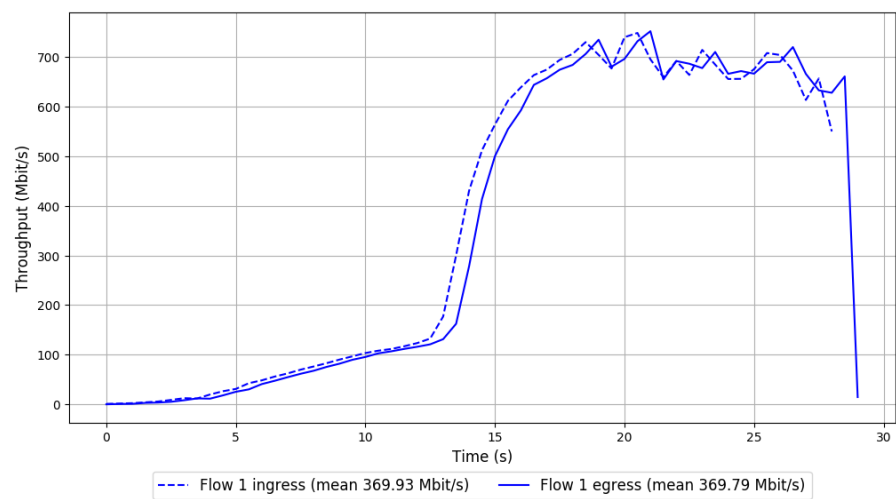
-- Flow 1:

Average throughput: 369.79 Mbit/s

95th percentile per-packet one-way delay: 114.286 ms

Loss rate: 0.04%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-01-17 05:48:46

End at: 2019-01-17 05:49:16

Local clock offset: 0.674 ms

Remote clock offset: 0.516 ms

Below is generated by plot.py at 2019-01-17 09:09:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 301.54 Mbit/s

95th percentile per-packet one-way delay: 124.342 ms

Loss rate: 0.12%

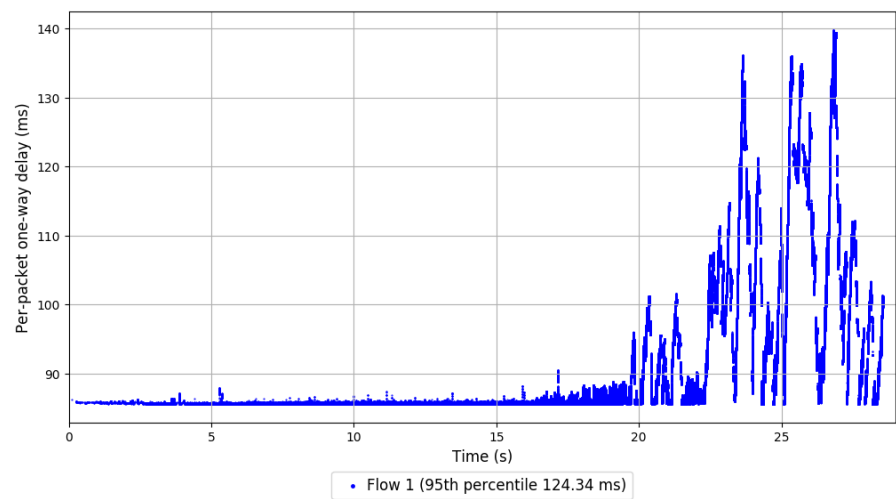
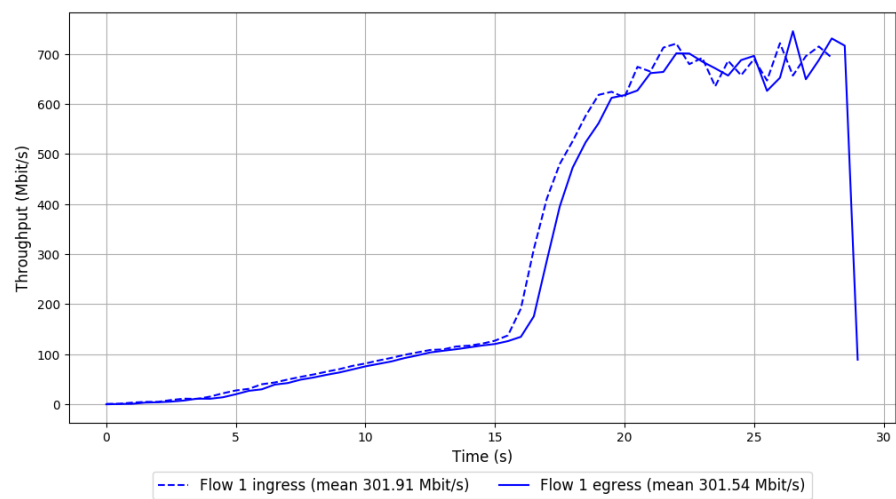
-- Flow 1:

Average throughput: 301.54 Mbit/s

95th percentile per-packet one-way delay: 124.342 ms

Loss rate: 0.12%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-01-17 06:20:13

End at: 2019-01-17 06:20:43

Local clock offset: 0.155 ms

Remote clock offset: 0.277 ms

Below is generated by plot.py at 2019-01-17 09:09:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 283.53 Mbit/s

95th percentile per-packet one-way delay: 125.949 ms

Loss rate: 0.31%

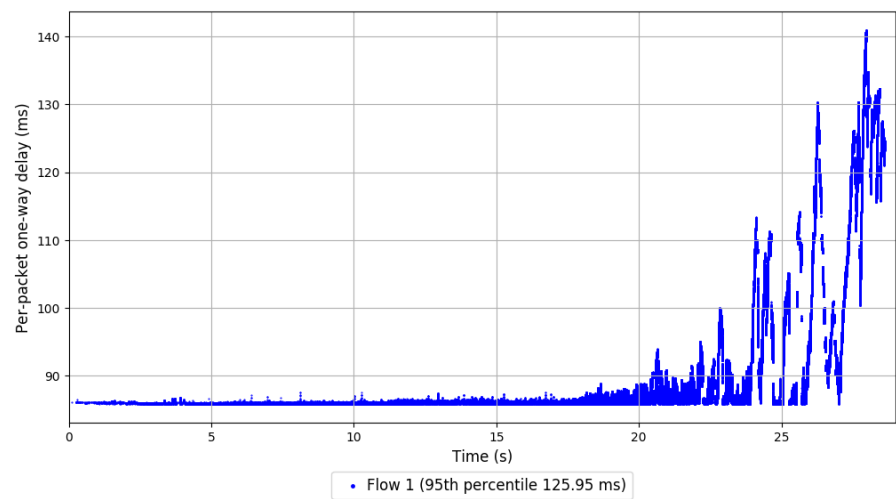
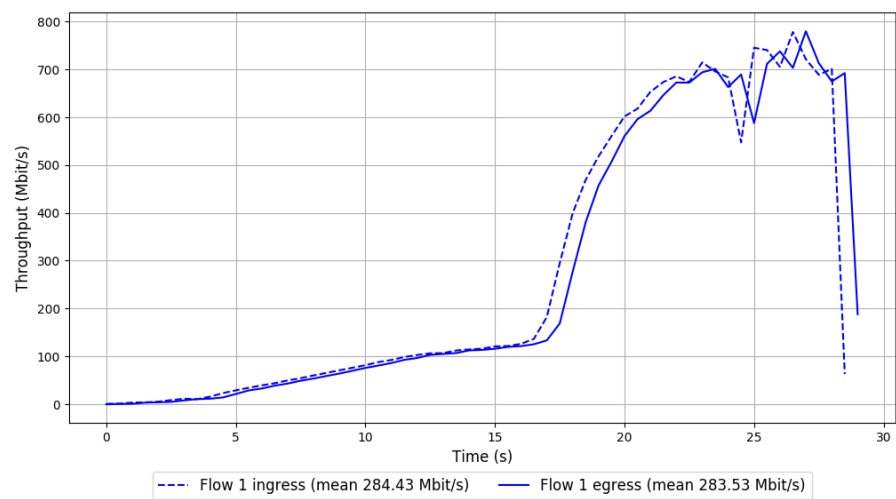
-- Flow 1:

Average throughput: 283.53 Mbit/s

95th percentile per-packet one-way delay: 125.949 ms

Loss rate: 0.31%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-01-17 06:51:43

End at: 2019-01-17 06:52:13

Local clock offset: 0.184 ms

Remote clock offset: 0.195 ms

Below is generated by plot.py at 2019-01-17 09:09:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.18 Mbit/s

95th percentile per-packet one-way delay: 104.737 ms

Loss rate: 0.25%

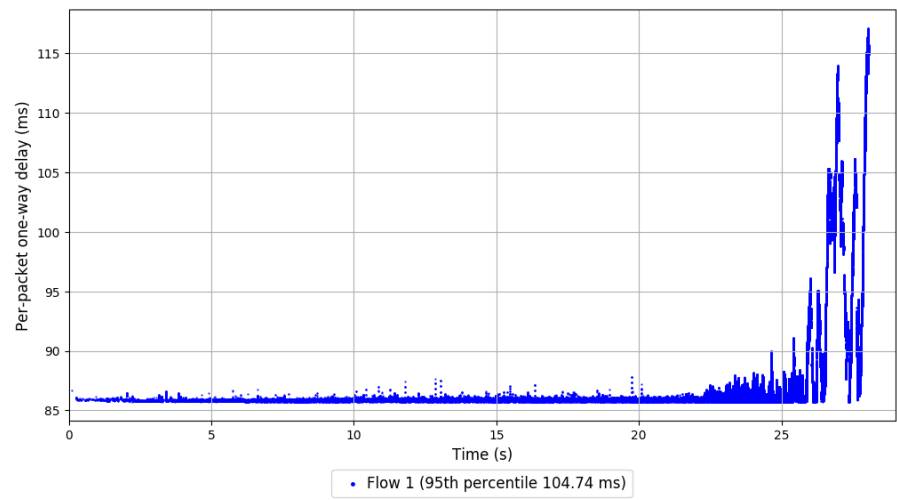
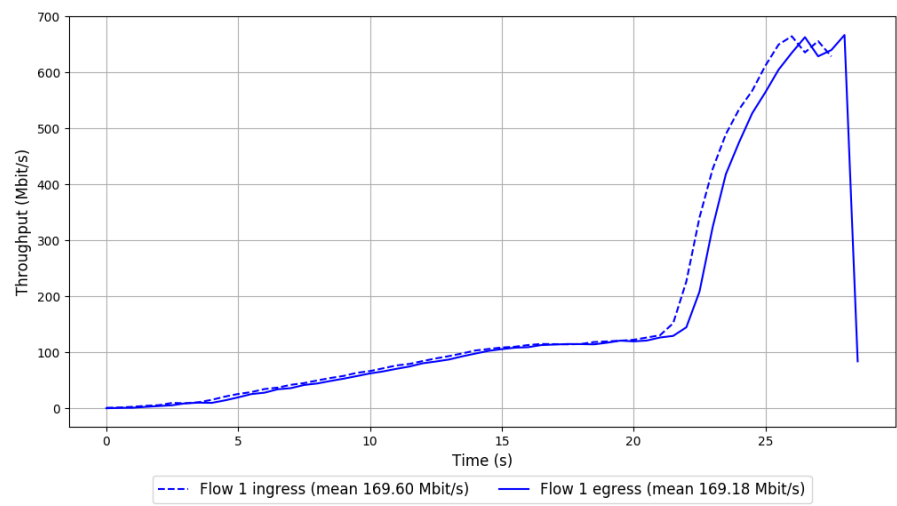
-- Flow 1:

Average throughput: 169.18 Mbit/s

95th percentile per-packet one-way delay: 104.737 ms

Loss rate: 0.25%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-01-17 07:23:09

End at: 2019-01-17 07:23:39

Local clock offset: 0.247 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2019-01-17 09:09:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.40 Mbit/s

95th percentile per-packet one-way delay: 93.147 ms

Loss rate: 0.00%

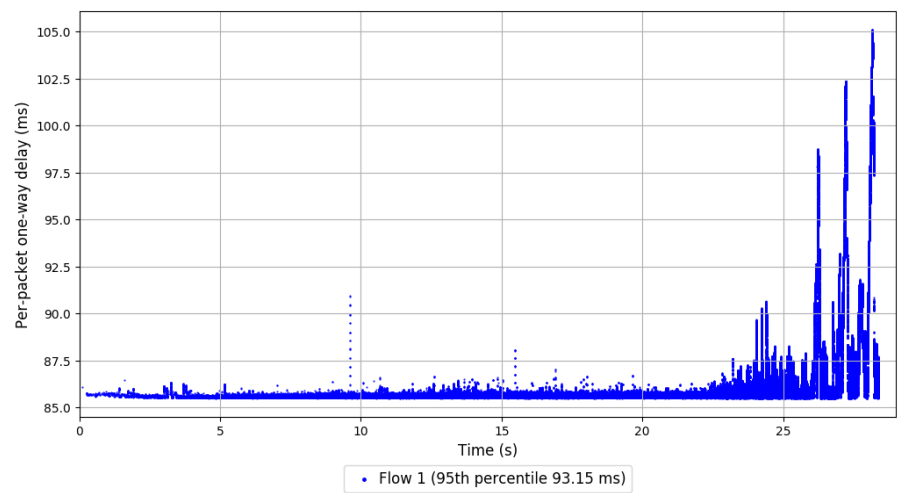
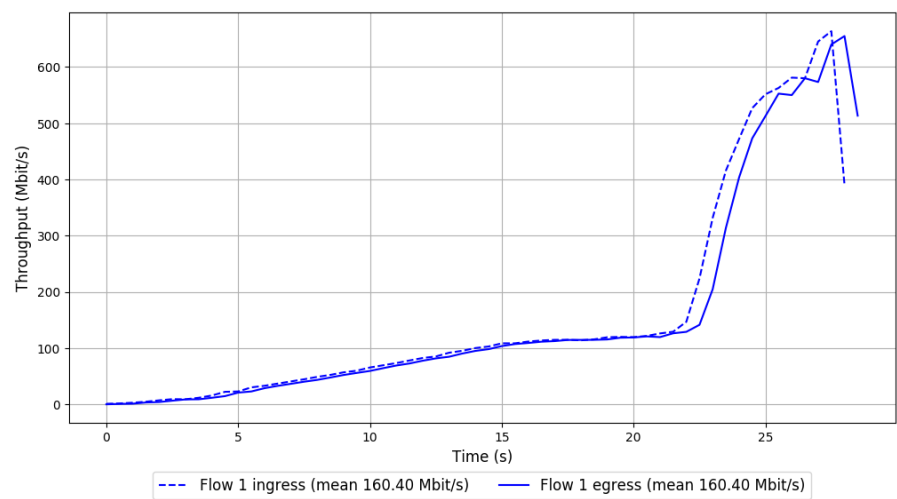
-- Flow 1:

Average throughput: 160.40 Mbit/s

95th percentile per-packet one-way delay: 93.147 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link

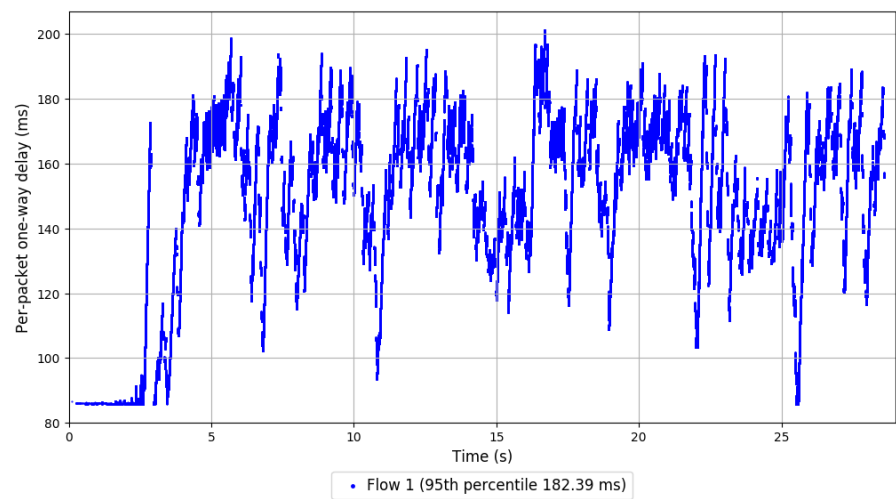
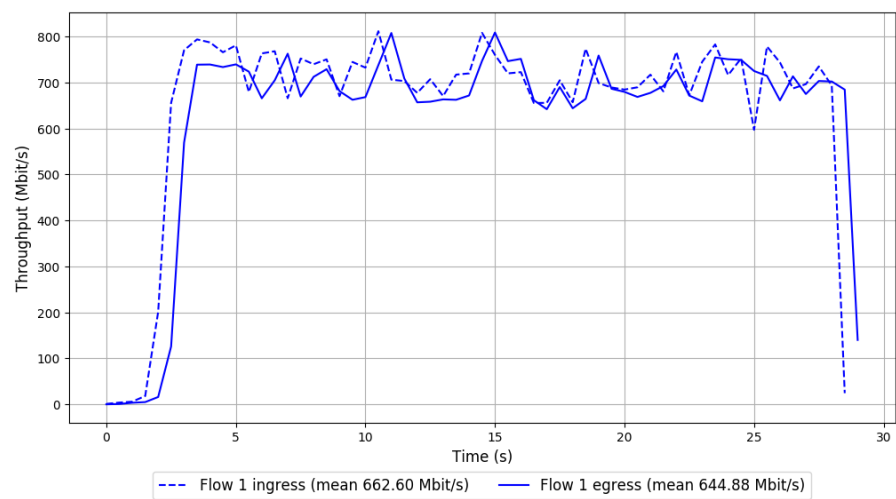


```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-01-17 05:25:46
End at: 2019-01-17 05:26:16
Local clock offset: 0.647 ms
Remote clock offset: 1.057 ms

# Below is generated by plot.py at 2019-01-17 09:16:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 644.88 Mbit/s
95th percentile per-packet one-way delay: 182.388 ms
Loss rate: 2.65%
-- Flow 1:
Average throughput: 644.88 Mbit/s
95th percentile per-packet one-way delay: 182.388 ms
Loss rate: 2.65%
```

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-01-17 05:57:22

End at: 2019-01-17 05:57:52

Local clock offset: 0.408 ms

Remote clock offset: 0.334 ms

Below is generated by plot.py at 2019-01-17 09:16:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 625.73 Mbit/s

95th percentile per-packet one-way delay: 183.406 ms

Loss rate: 2.77%

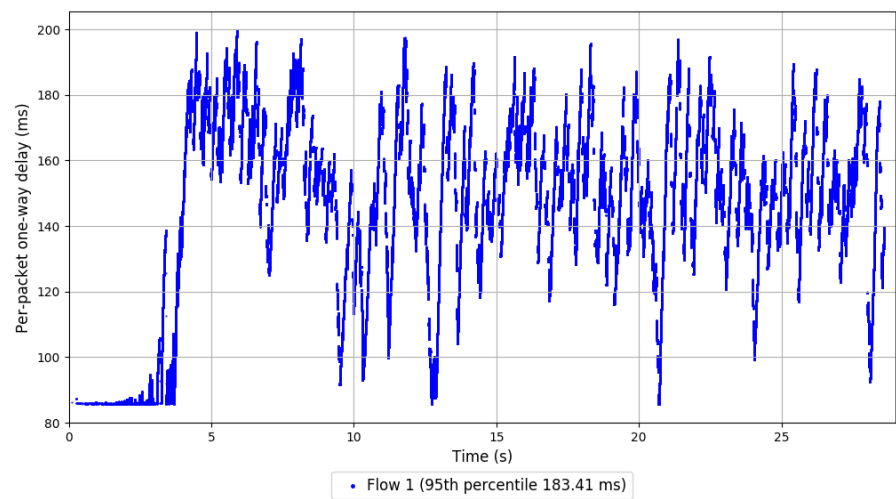
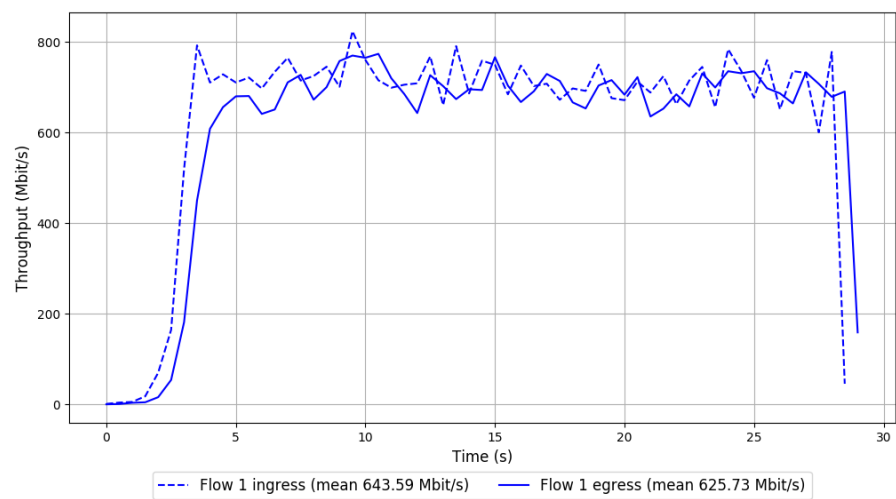
-- Flow 1:

Average throughput: 625.73 Mbit/s

95th percentile per-packet one-way delay: 183.406 ms

Loss rate: 2.77%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-01-17 06:28:37

End at: 2019-01-17 06:29:07

Local clock offset: 0.047 ms

Remote clock offset: 0.181 ms

Below is generated by plot.py at 2019-01-17 09:17:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 638.30 Mbit/s

95th percentile per-packet one-way delay: 181.256 ms

Loss rate: 2.26%

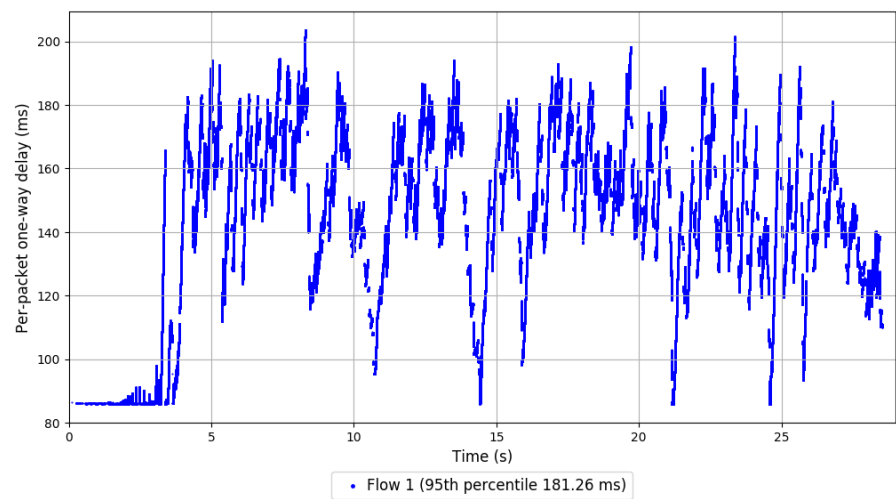
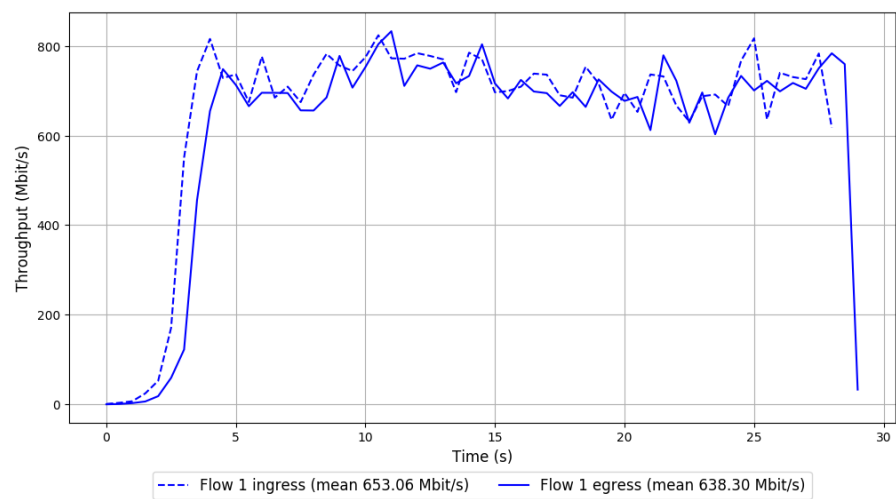
-- Flow 1:

Average throughput: 638.30 Mbit/s

95th percentile per-packet one-way delay: 181.256 ms

Loss rate: 2.26%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-01-17 07:00:17

End at: 2019-01-17 07:00:47

Local clock offset: -0.038 ms

Remote clock offset: 0.069 ms

Below is generated by plot.py at 2019-01-17 09:17:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 569.39 Mbit/s

95th percentile per-packet one-way delay: 190.370 ms

Loss rate: 4.09%

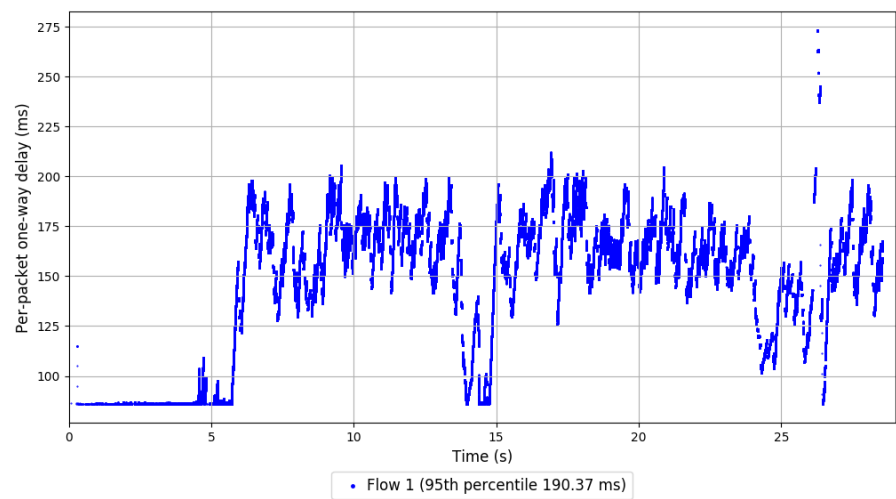
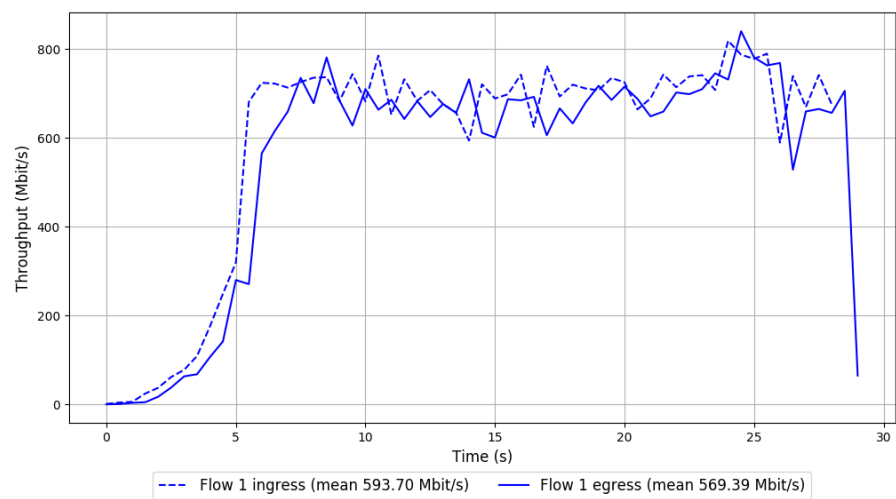
-- Flow 1:

Average throughput: 569.39 Mbit/s

95th percentile per-packet one-way delay: 190.370 ms

Loss rate: 4.09%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-01-17 07:31:39

End at: 2019-01-17 07:32:09

Local clock offset: 0.034 ms

Remote clock offset: -0.035 ms

Below is generated by plot.py at 2019-01-17 09:17:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 638.28 Mbit/s

95th percentile per-packet one-way delay: 182.665 ms

Loss rate: 1.88%

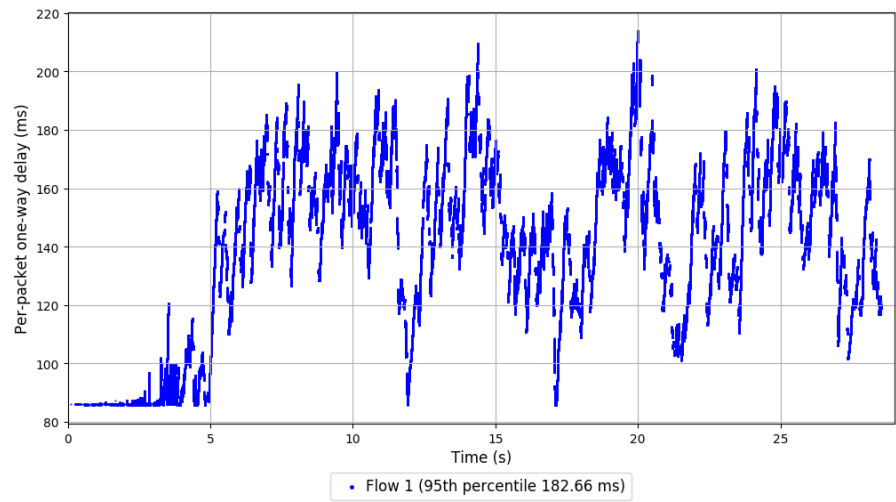
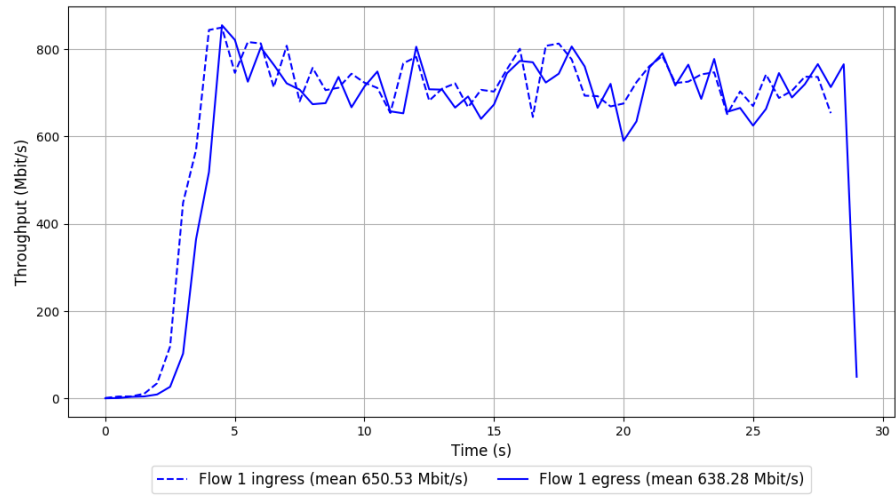
-- Flow 1:

Average throughput: 638.28 Mbit/s

95th percentile per-packet one-way delay: 182.665 ms

Loss rate: 1.88%

Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-01-17 05:24:35

End at: 2019-01-17 05:25:05

Local clock offset: 0.765 ms

Remote clock offset: 1.131 ms

Below is generated by plot.py at 2019-01-17 09:17:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.49 Mbit/s

95th percentile per-packet one-way delay: 87.764 ms

Loss rate: 0.00%

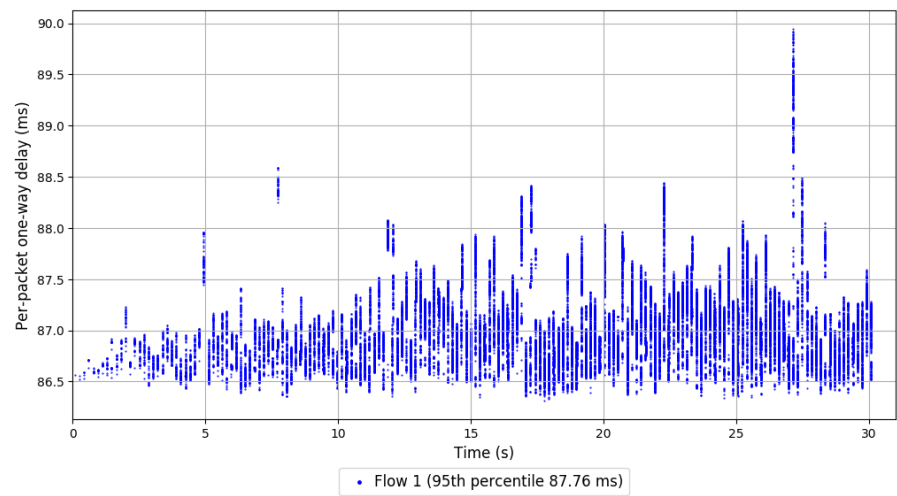
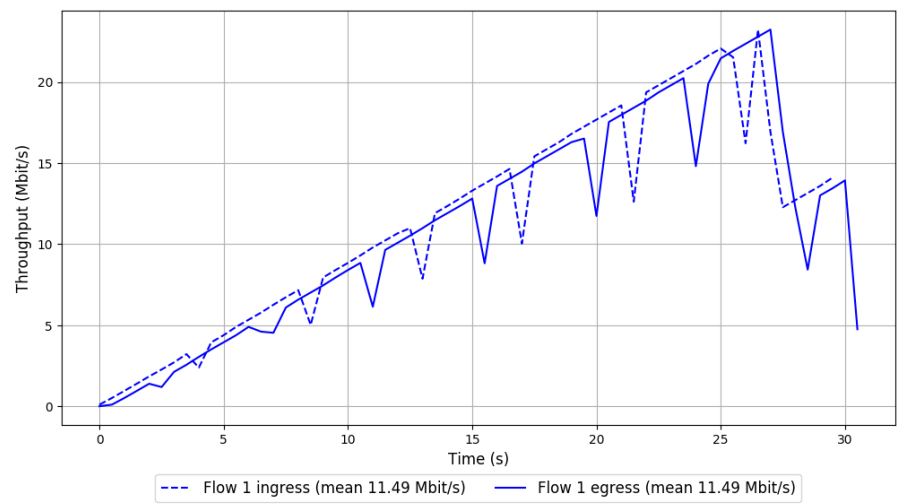
-- Flow 1:

Average throughput: 11.49 Mbit/s

95th percentile per-packet one-way delay: 87.764 ms

Loss rate: 0.00%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-01-17 05:56:11

End at: 2019-01-17 05:56:41

Local clock offset: 0.507 ms

Remote clock offset: 0.32 ms

Below is generated by plot.py at 2019-01-17 09:17:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.61 Mbit/s

95th percentile per-packet one-way delay: 87.107 ms

Loss rate: 0.00%

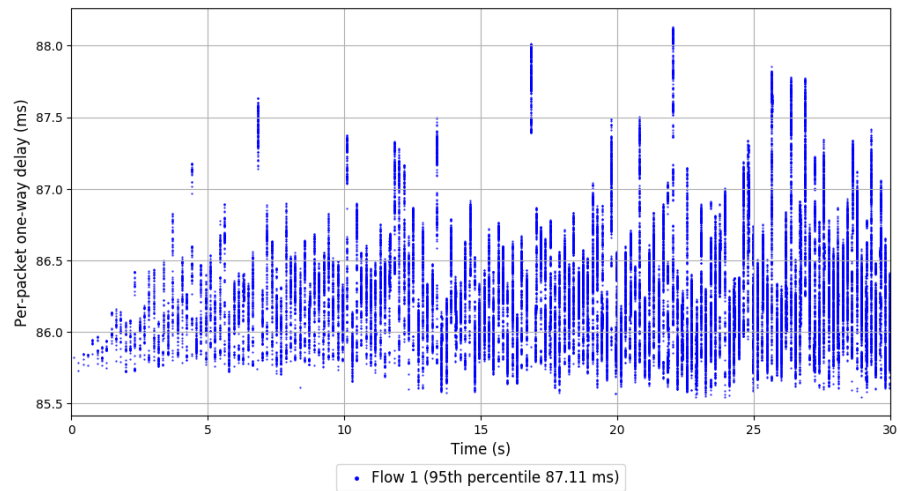
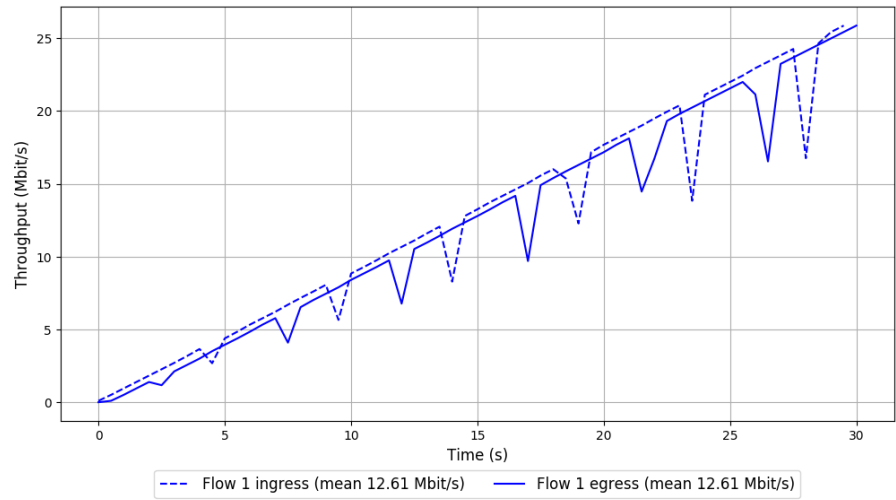
-- Flow 1:

Average throughput: 12.61 Mbit/s

95th percentile per-packet one-way delay: 87.107 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-01-17 06:27:26

End at: 2019-01-17 06:27:56

Local clock offset: 0.254 ms

Remote clock offset: 0.168 ms

Below is generated by plot.py at 2019-01-17 09:17:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.44 Mbit/s

95th percentile per-packet one-way delay: 87.678 ms

Loss rate: 0.00%

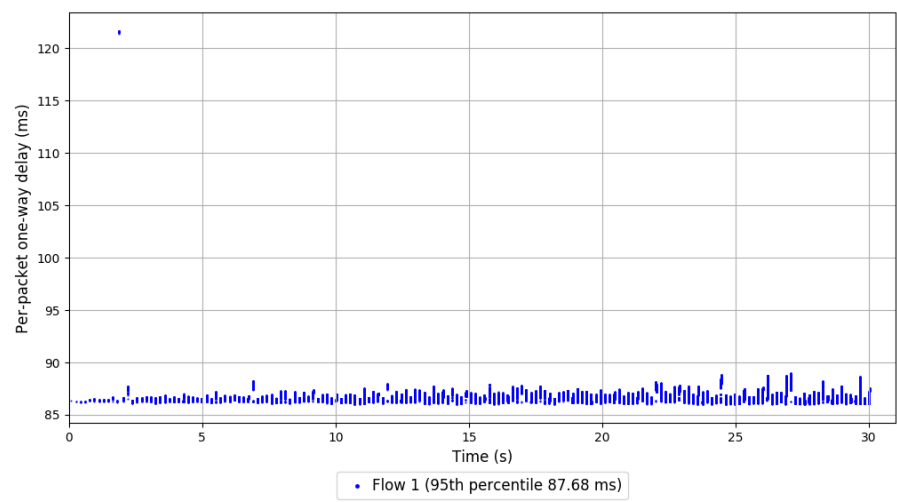
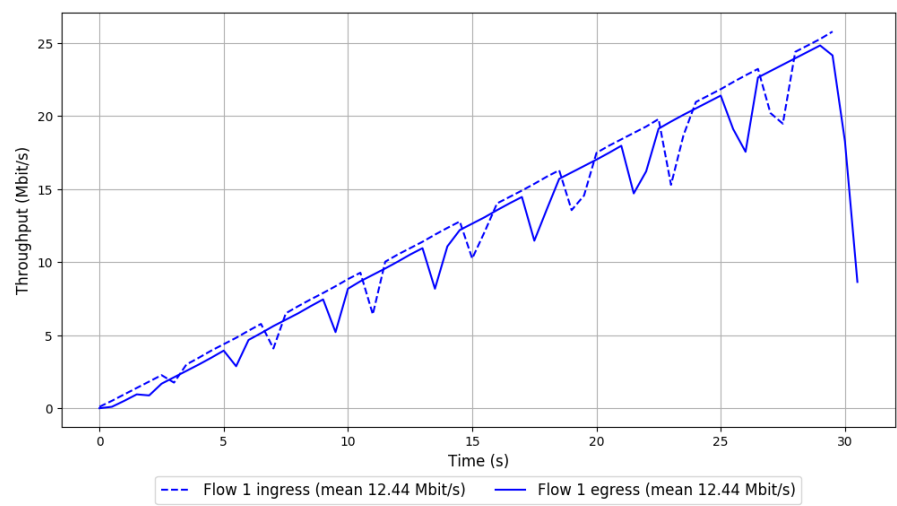
-- Flow 1:

Average throughput: 12.44 Mbit/s

95th percentile per-packet one-way delay: 87.678 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-01-17 06:59:06

End at: 2019-01-17 06:59:36

Local clock offset: 0.313 ms

Remote clock offset: 0.073 ms

Below is generated by plot.py at 2019-01-17 09:17:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.57 Mbit/s

95th percentile per-packet one-way delay: 87.945 ms

Loss rate: 0.00%

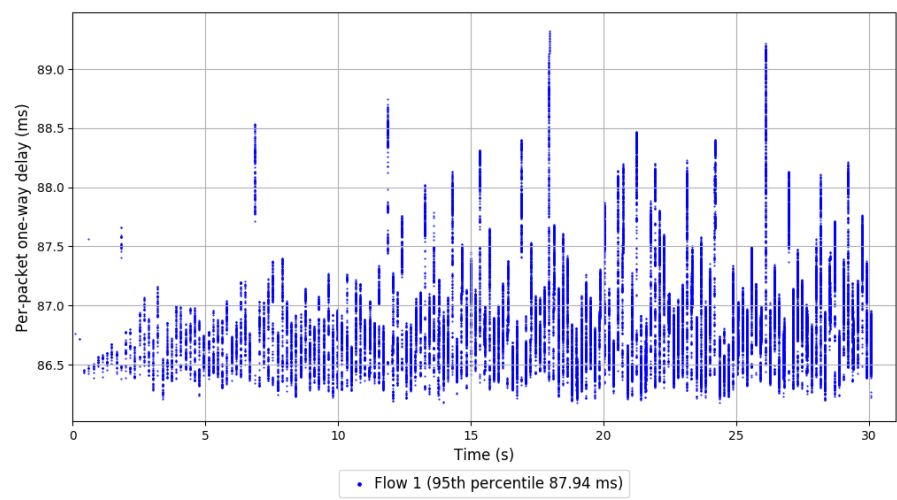
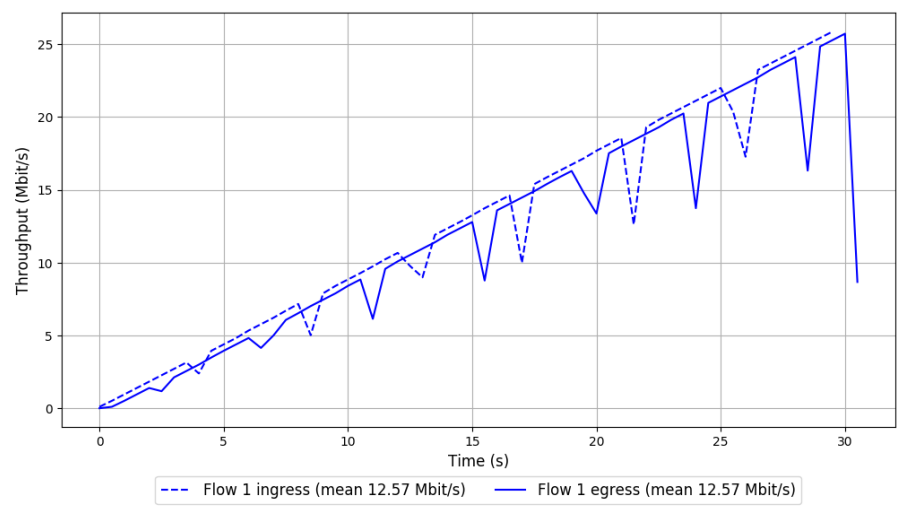
-- Flow 1:

Average throughput: 12.57 Mbit/s

95th percentile per-packet one-way delay: 87.945 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-01-17 07:30:28

End at: 2019-01-17 07:30:58

Local clock offset: 0.288 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2019-01-17 09:17:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.45 Mbit/s

95th percentile per-packet one-way delay: 87.709 ms

Loss rate: 0.00%

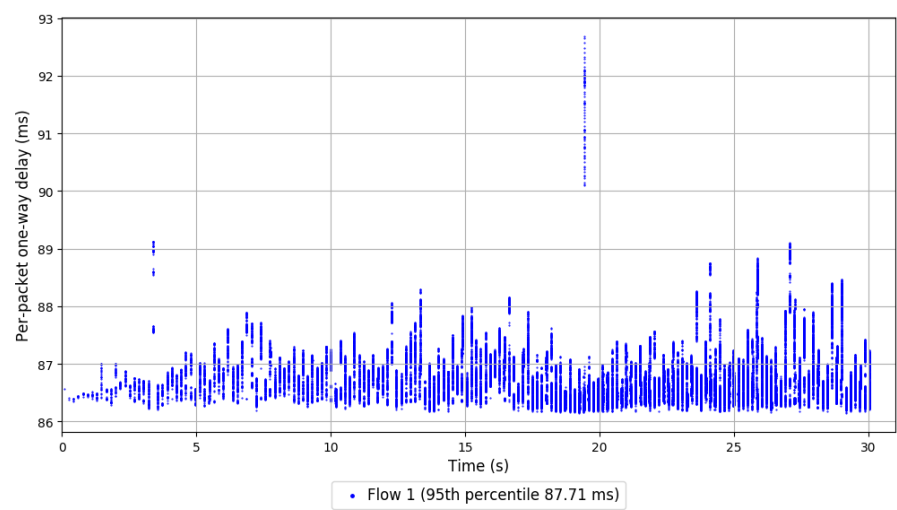
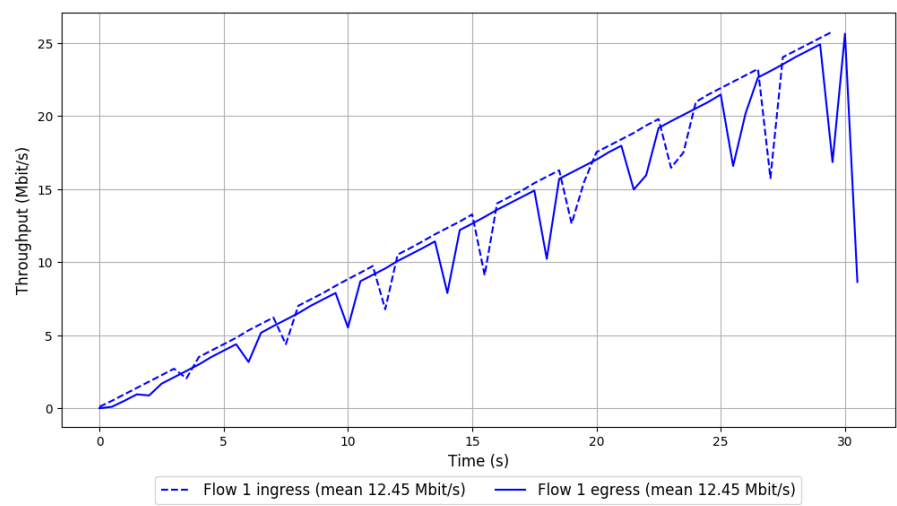
-- Flow 1:

Average throughput: 12.45 Mbit/s

95th percentile per-packet one-way delay: 87.709 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-01-17 05:31:27

End at: 2019-01-17 05:31:57

Local clock offset: 0.613 ms

Remote clock offset: 0.928 ms

Below is generated by plot.py at 2019-01-17 09:24:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 426.87 Mbit/s

95th percentile per-packet one-way delay: 203.807 ms

Loss rate: 3.87%

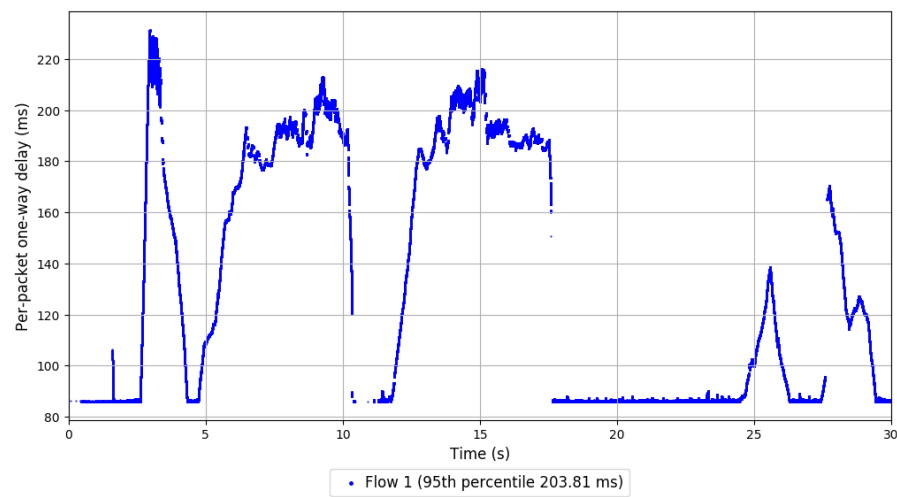
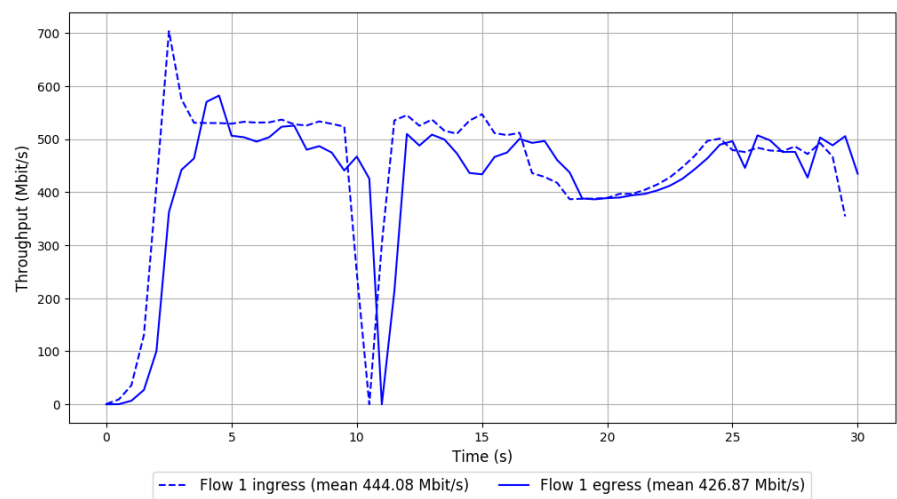
-- Flow 1:

Average throughput: 426.87 Mbit/s

95th percentile per-packet one-way delay: 203.807 ms

Loss rate: 3.87%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-01-17 06:03:02

End at: 2019-01-17 06:03:32

Local clock offset: 0.616 ms

Remote clock offset: 0.325 ms

Below is generated by plot.py at 2019-01-17 09:24:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 395.62 Mbit/s

95th percentile per-packet one-way delay: 174.256 ms

Loss rate: 0.45%

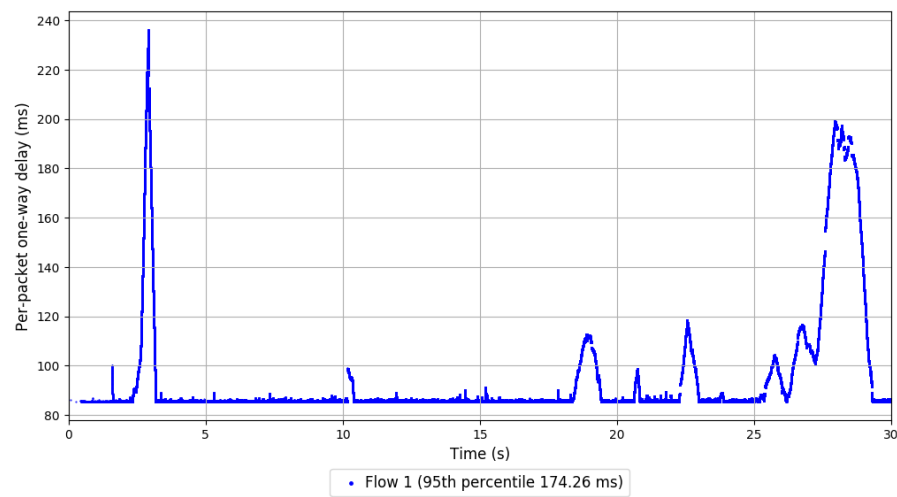
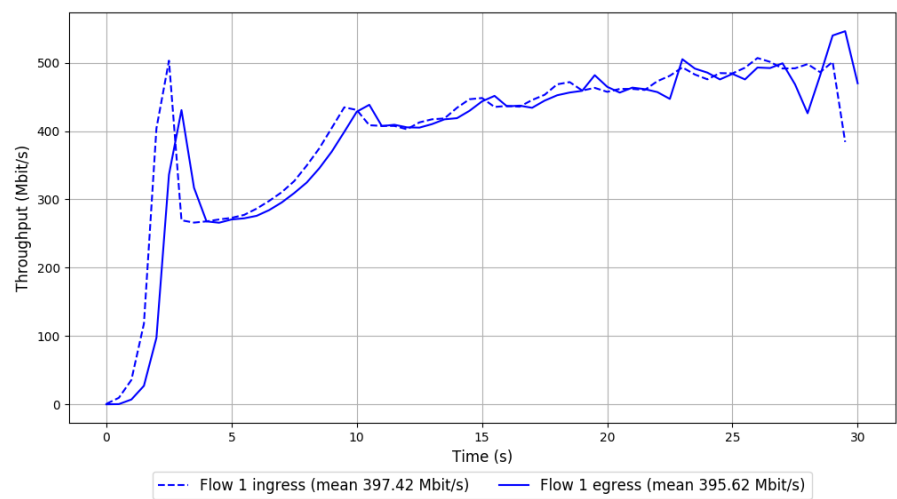
-- Flow 1:

Average throughput: 395.62 Mbit/s

95th percentile per-packet one-way delay: 174.256 ms

Loss rate: 0.45%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-01-17 06:34:17

End at: 2019-01-17 06:34:47

Local clock offset: 0.008 ms

Remote clock offset: 0.149 ms

Below is generated by plot.py at 2019-01-17 09:25:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 415.94 Mbit/s

95th percentile per-packet one-way delay: 199.960 ms

Loss rate: 3.02%

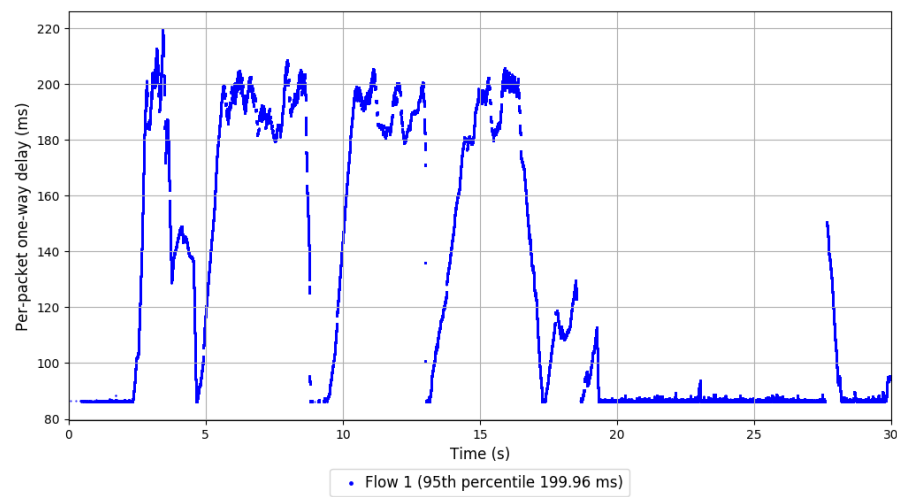
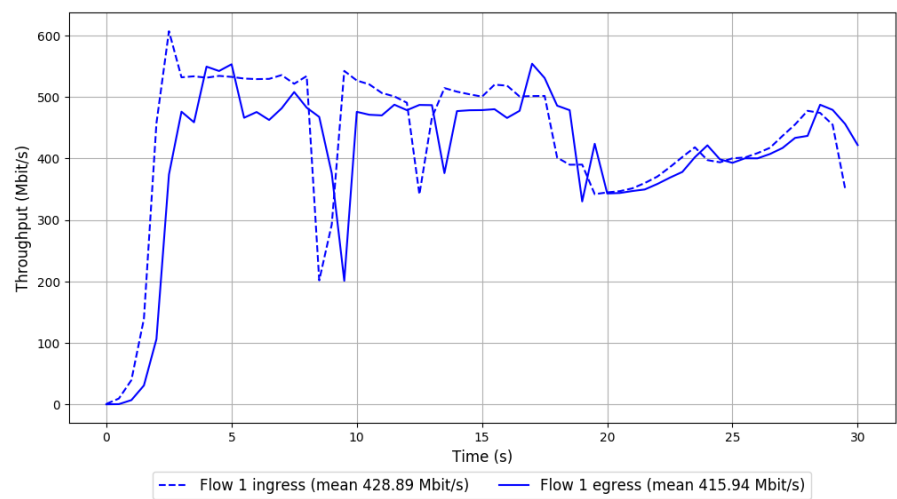
-- Flow 1:

Average throughput: 415.94 Mbit/s

95th percentile per-packet one-way delay: 199.960 ms

Loss rate: 3.02%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-01-17 07:05:52

End at: 2019-01-17 07:06:22

Local clock offset: -0.042 ms

Remote clock offset: 0.017 ms

Below is generated by plot.py at 2019-01-17 09:32:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 415.04 Mbit/s

95th percentile per-packet one-way delay: 201.635 ms

Loss rate: 7.18%

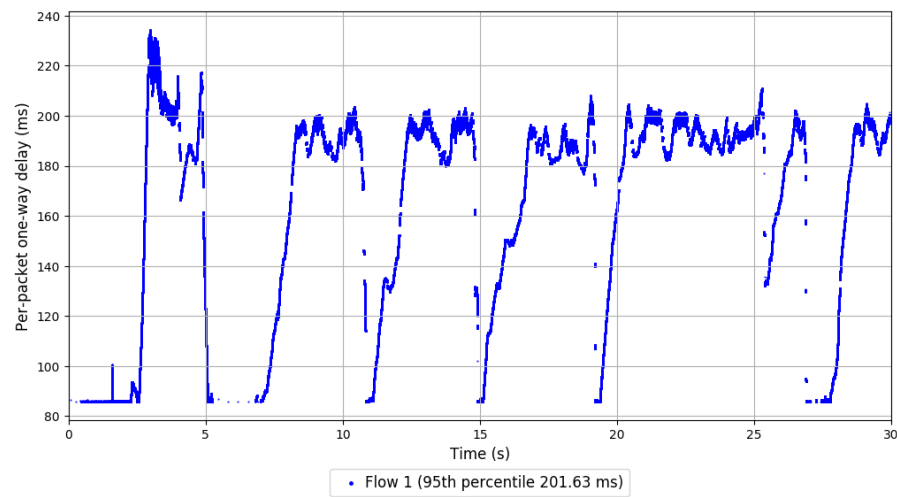
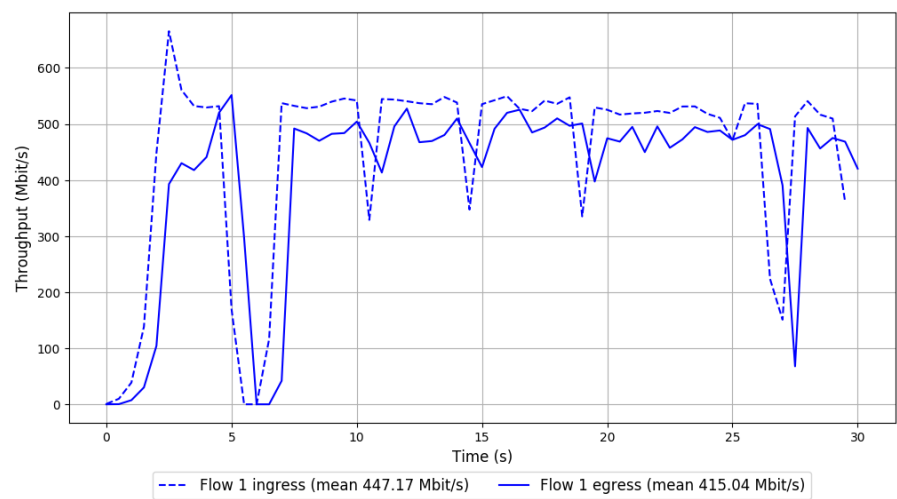
-- Flow 1:

Average throughput: 415.04 Mbit/s

95th percentile per-packet one-way delay: 201.635 ms

Loss rate: 7.18%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-01-17 07:37:35

End at: 2019-01-17 07:38:05

Local clock offset: 0.38 ms

Remote clock offset: -0.021 ms

Below is generated by plot.py at 2019-01-17 09:32:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 429.03 Mbit/s

95th percentile per-packet one-way delay: 204.894 ms

Loss rate: 3.55%

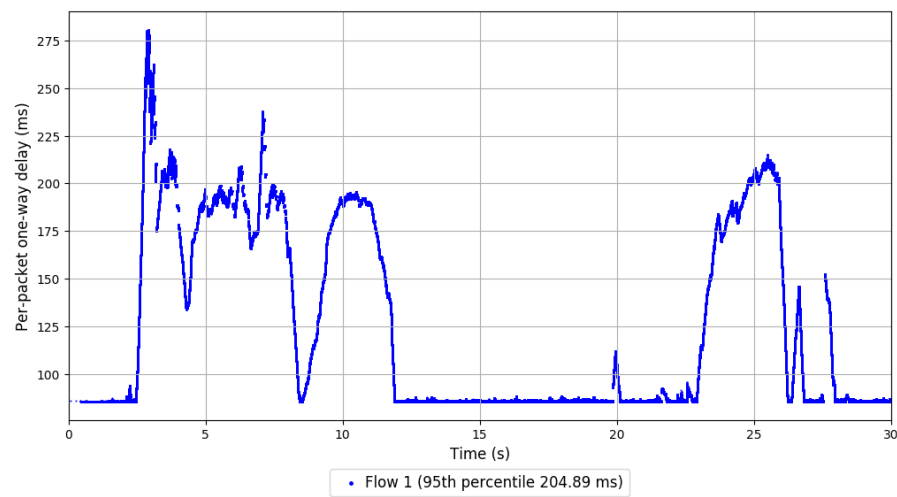
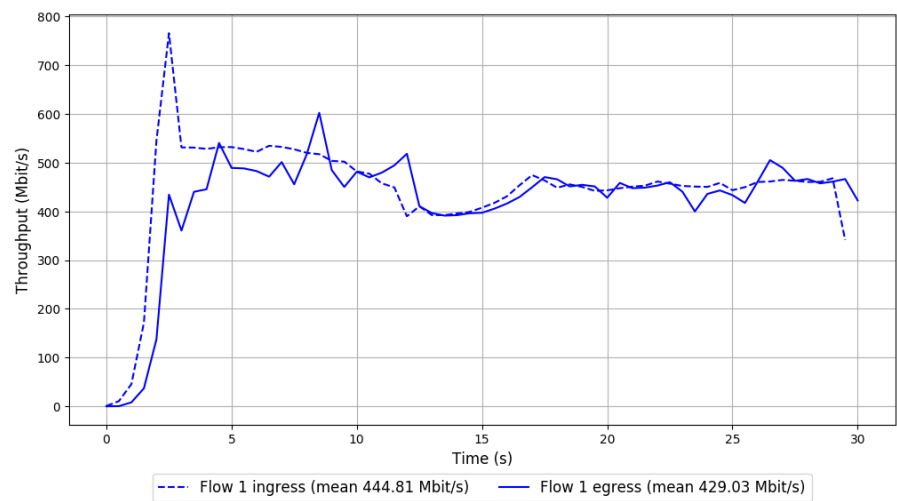
-- Flow 1:

Average throughput: 429.03 Mbit/s

95th percentile per-packet one-way delay: 204.894 ms

Loss rate: 3.55%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-01-17 05:29:46

End at: 2019-01-17 05:30:16

Local clock offset: 0.973 ms

Remote clock offset: 0.932 ms

Below is generated by plot.py at 2019-01-17 09:32:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 331.27 Mbit/s

95th percentile per-packet one-way delay: 166.677 ms

Loss rate: 0.42%

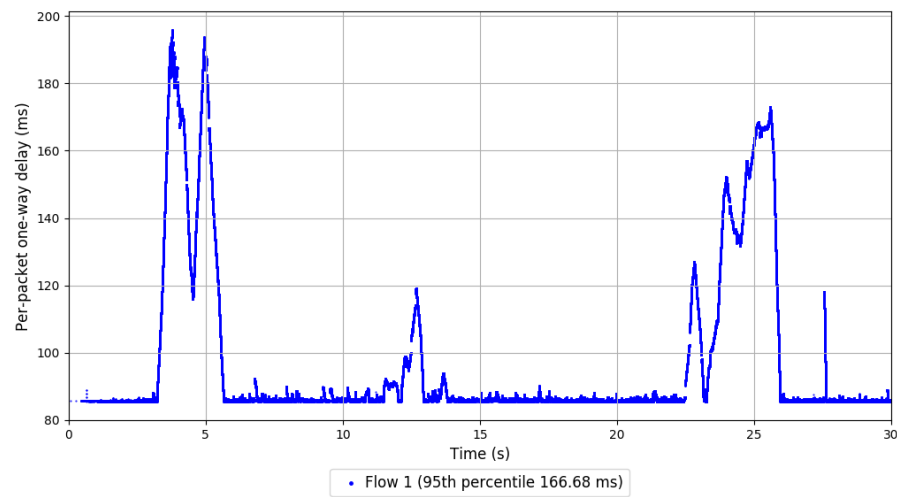
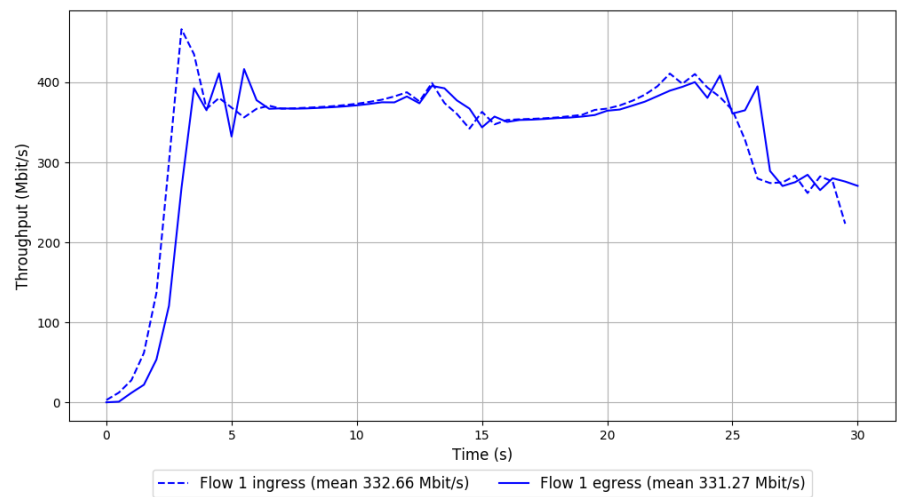
-- Flow 1:

Average throughput: 331.27 Mbit/s

95th percentile per-packet one-way delay: 166.677 ms

Loss rate: 0.42%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-01-17 06:01:21

End at: 2019-01-17 06:01:51

Local clock offset: -0.083 ms

Remote clock offset: 0.357 ms

Below is generated by plot.py at 2019-01-17 09:32:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 322.96 Mbit/s

95th percentile per-packet one-way delay: 181.724 ms

Loss rate: 1.09%

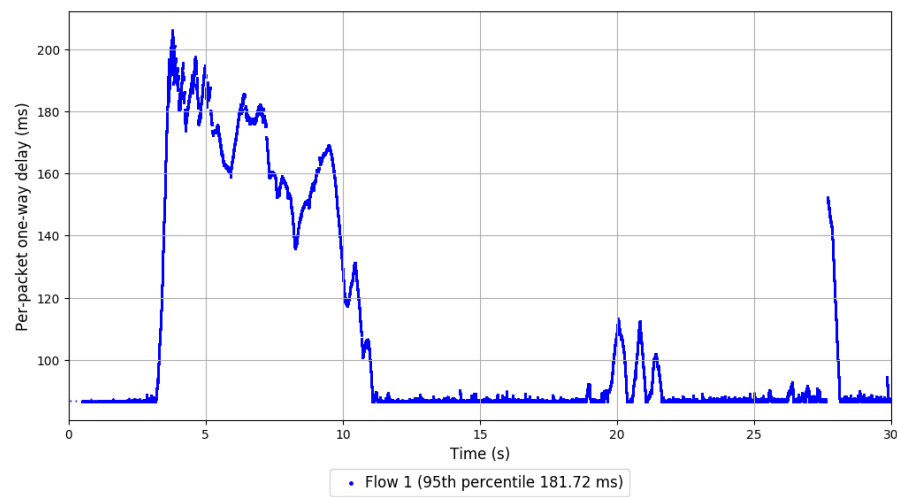
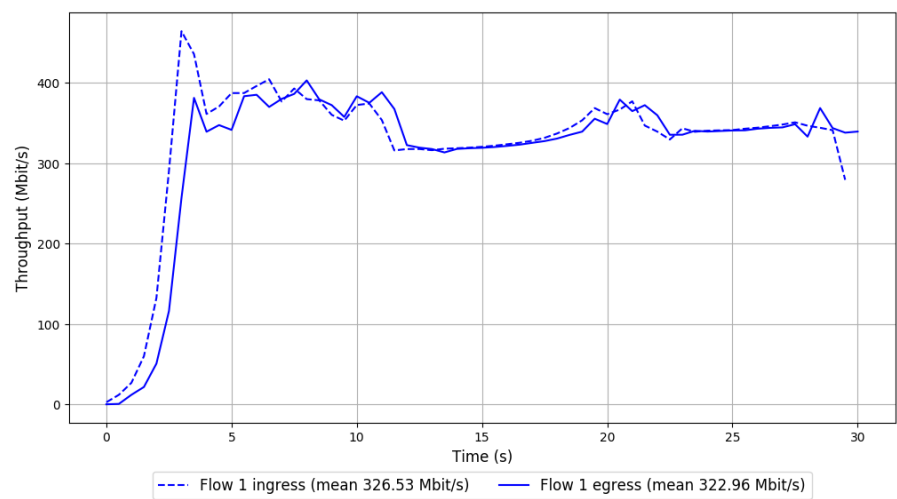
-- Flow 1:

Average throughput: 322.96 Mbit/s

95th percentile per-packet one-way delay: 181.724 ms

Loss rate: 1.09%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-01-17 06:32:37

End at: 2019-01-17 06:33:07

Local clock offset: -0.431 ms

Remote clock offset: 0.12 ms

Below is generated by plot.py at 2019-01-17 09:32:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 330.66 Mbit/s

95th percentile per-packet one-way delay: 146.718 ms

Loss rate: 0.75%

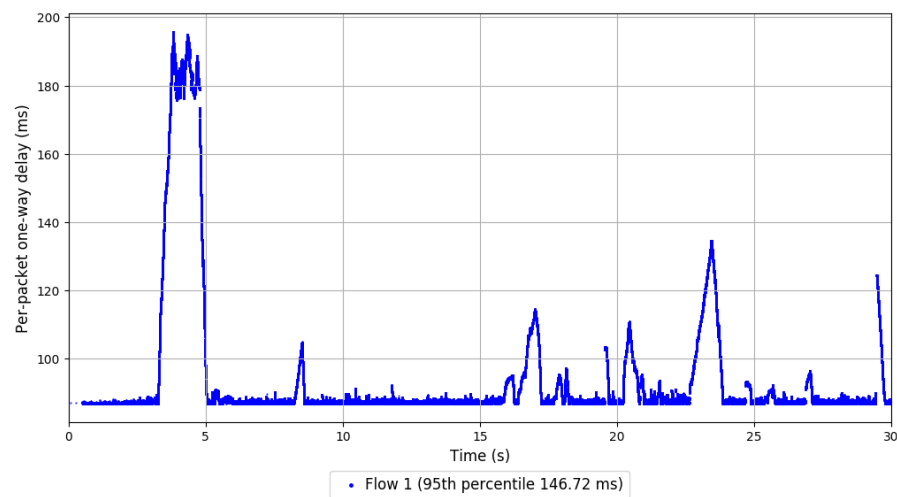
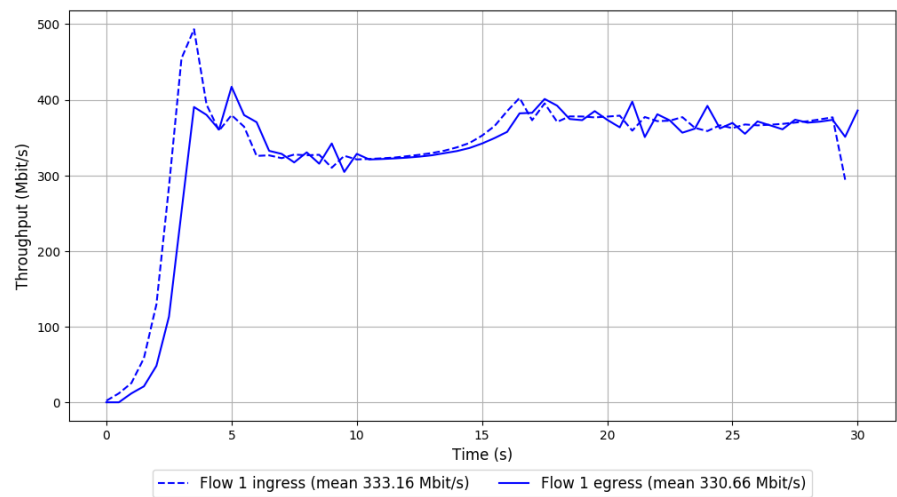
-- Flow 1:

Average throughput: 330.66 Mbit/s

95th percentile per-packet one-way delay: 146.718 ms

Loss rate: 0.75%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-01-17 07:04:12

End at: 2019-01-17 07:04:42

Local clock offset: 0.211 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2019-01-17 09:37:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 330.19 Mbit/s

95th percentile per-packet one-way delay: 181.501 ms

Loss rate: 1.79%

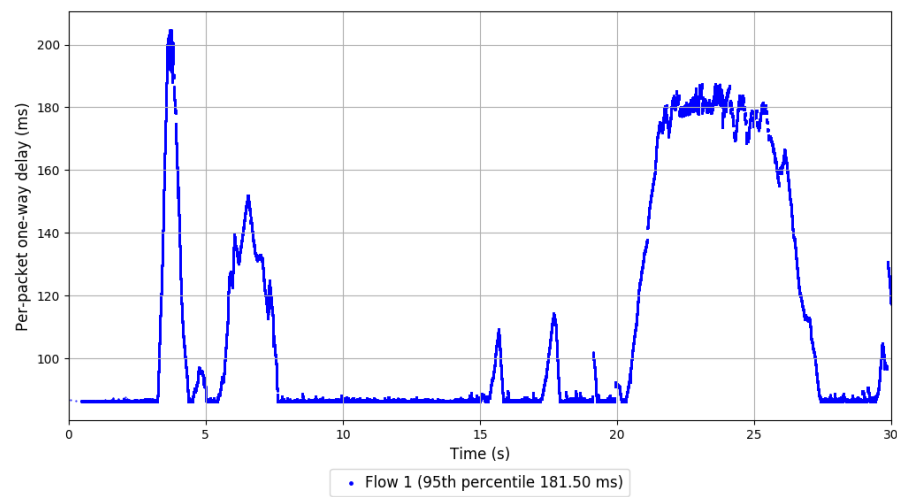
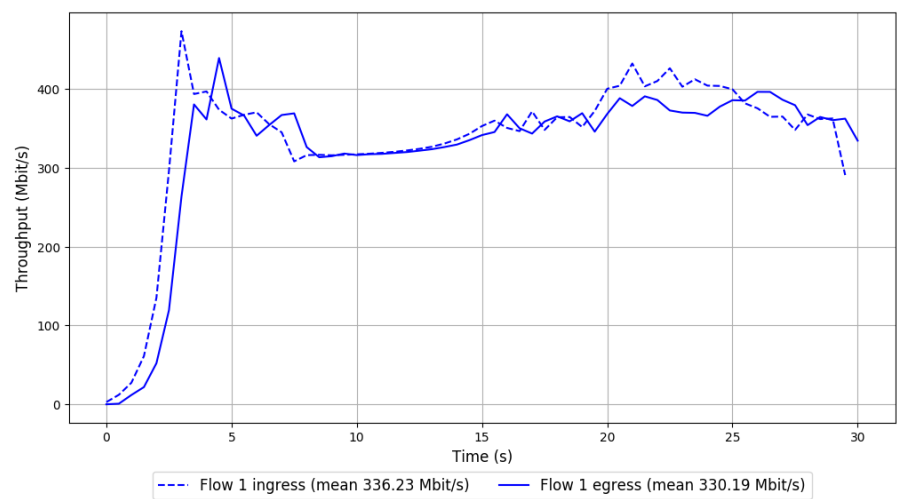
-- Flow 1:

Average throughput: 330.19 Mbit/s

95th percentile per-packet one-way delay: 181.501 ms

Loss rate: 1.79%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-01-17 07:35:48

End at: 2019-01-17 07:36:18

Local clock offset: -0.326 ms

Remote clock offset: 0.007 ms

Below is generated by plot.py at 2019-01-17 09:37:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 323.31 Mbit/s

95th percentile per-packet one-way delay: 196.948 ms

Loss rate: 3.35%

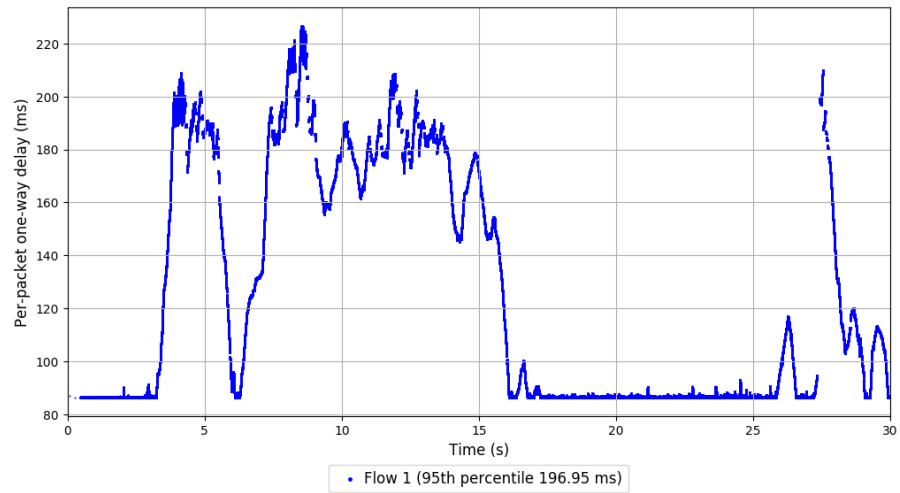
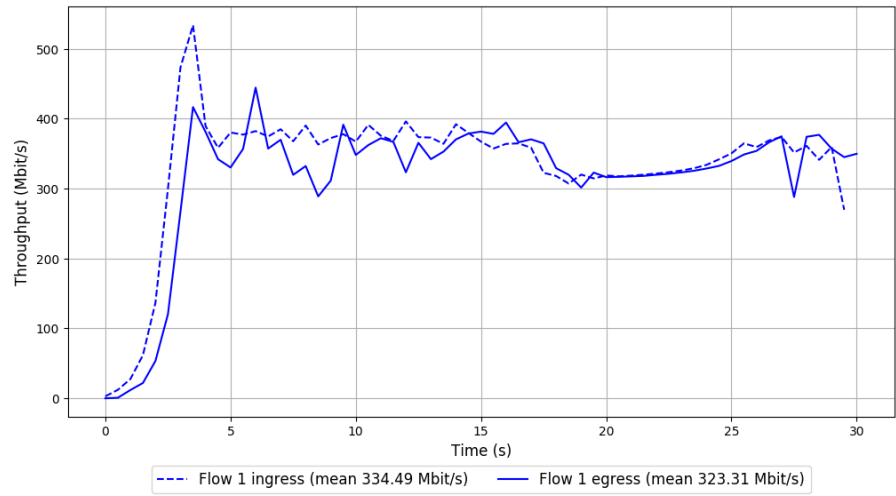
-- Flow 1:

Average throughput: 323.31 Mbit/s

95th percentile per-packet one-way delay: 196.948 ms

Loss rate: 3.35%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-01-17 05:16:02

End at: 2019-01-17 05:16:32

Local clock offset: 0.542 ms

Remote clock offset: 2.084 ms

Below is generated by plot.py at 2019-01-17 09:37:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.02 Mbit/s

95th percentile per-packet one-way delay: 86.334 ms

Loss rate: 0.00%

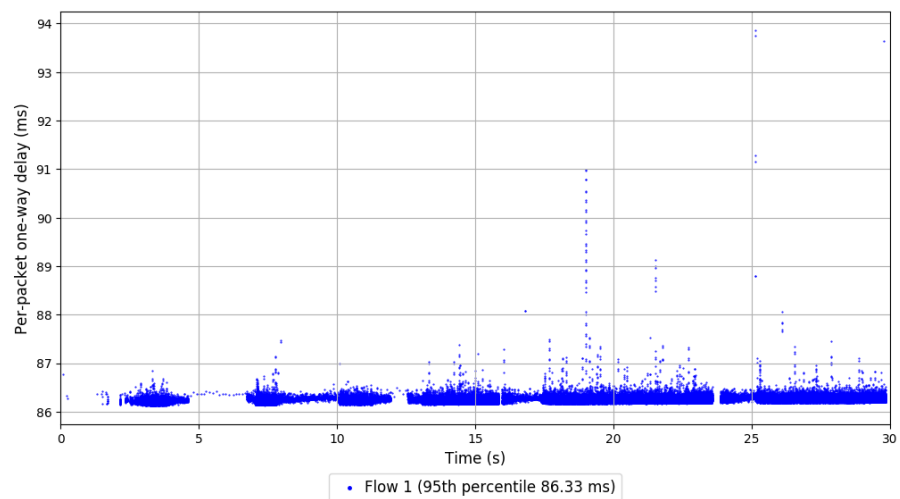
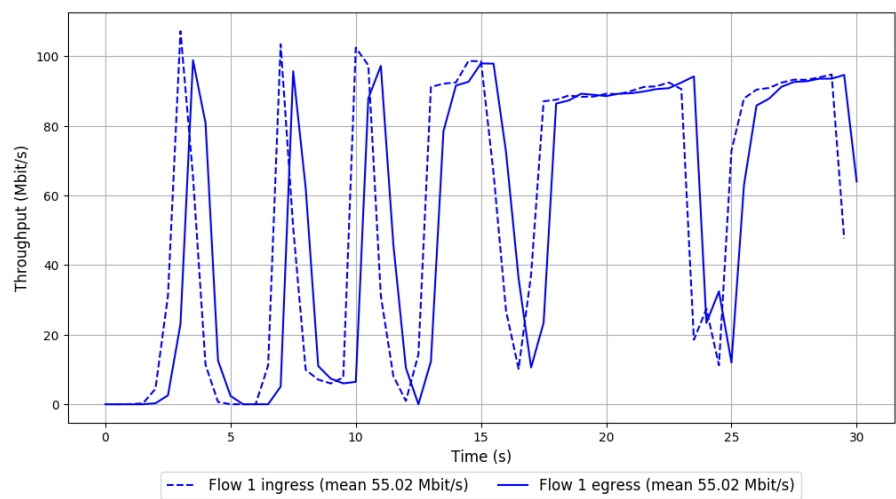
-- Flow 1:

Average throughput: 55.02 Mbit/s

95th percentile per-packet one-way delay: 86.334 ms

Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-01-17 05:47:33

End at: 2019-01-17 05:48:03

Local clock offset: 0.395 ms

Remote clock offset: 0.558 ms

Below is generated by plot.py at 2019-01-17 09:37:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.52 Mbit/s

95th percentile per-packet one-way delay: 86.814 ms

Loss rate: 0.00%

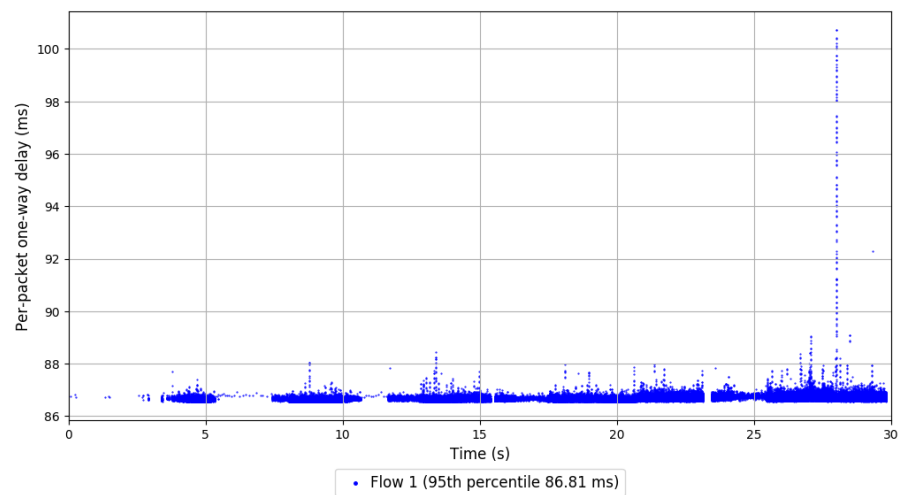
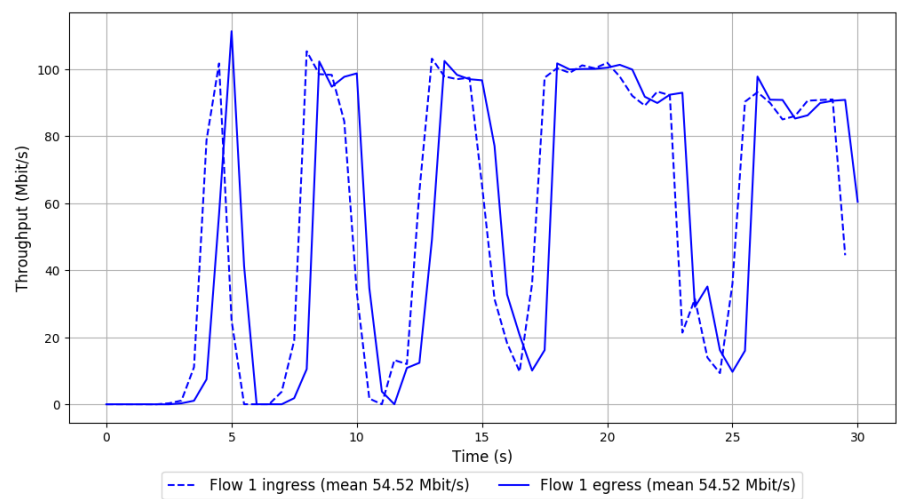
-- Flow 1:

Average throughput: 54.52 Mbit/s

95th percentile per-packet one-way delay: 86.814 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-01-17 06:19:01

End at: 2019-01-17 06:19:31

Local clock offset: 0.329 ms

Remote clock offset: 0.342 ms

Below is generated by plot.py at 2019-01-17 09:37:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.52 Mbit/s

95th percentile per-packet one-way delay: 86.001 ms

Loss rate: 0.00%

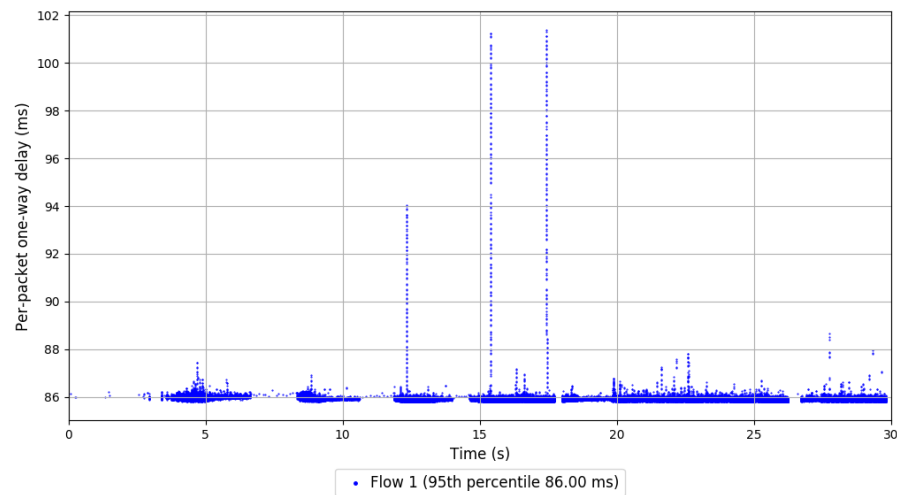
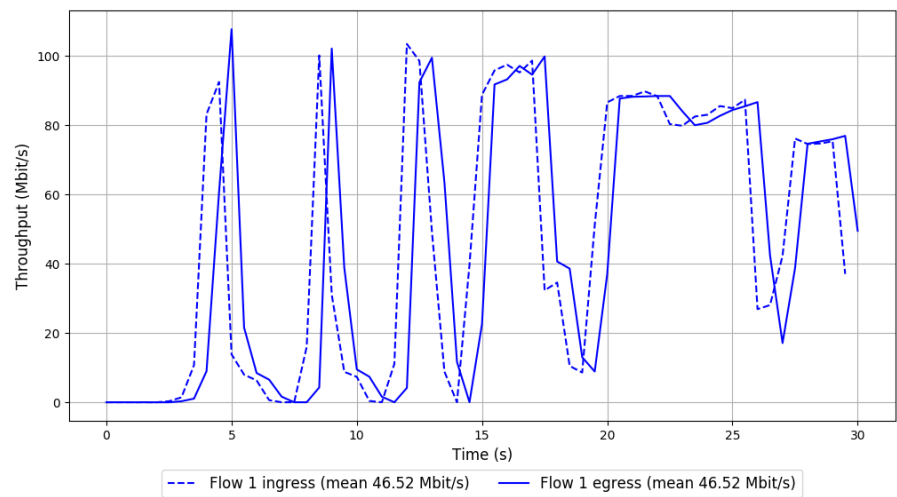
-- Flow 1:

Average throughput: 46.52 Mbit/s

95th percentile per-packet one-way delay: 86.001 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-01-17 06:50:30

End at: 2019-01-17 06:51:01

Local clock offset: 0.281 ms

Remote clock offset: 0.189 ms

Below is generated by plot.py at 2019-01-17 09:37:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.52 Mbit/s

95th percentile per-packet one-way delay: 86.128 ms

Loss rate: 0.00%

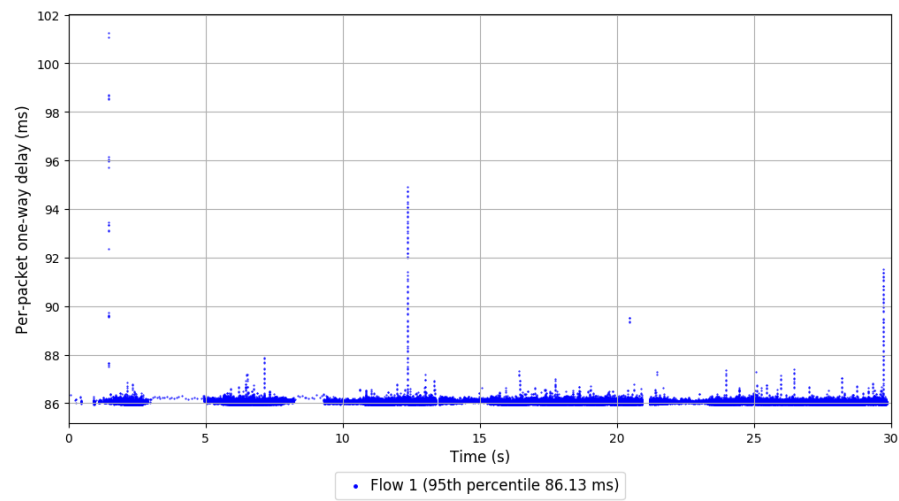
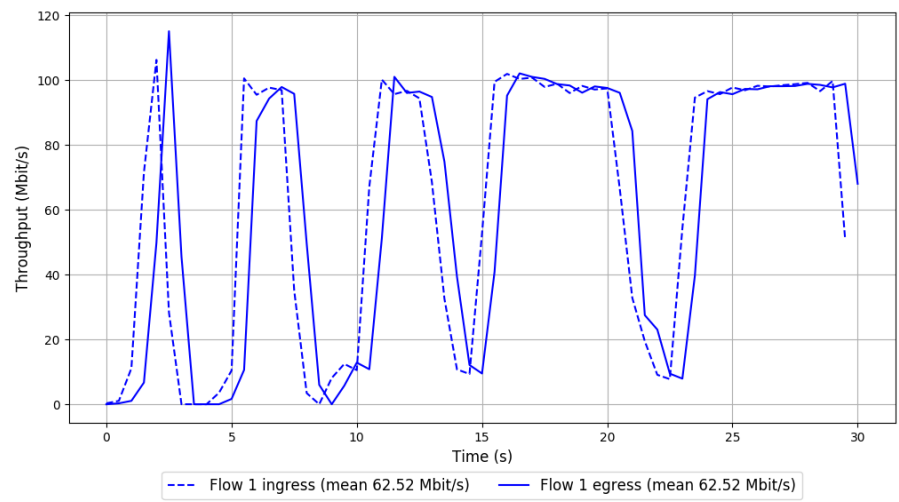
-- Flow 1:

Average throughput: 62.52 Mbit/s

95th percentile per-packet one-way delay: 86.128 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-01-17 07:21:57

End at: 2019-01-17 07:22:27

Local clock offset: 0.105 ms

Remote clock offset: 0.028 ms

Below is generated by plot.py at 2019-01-17 09:37:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.39 Mbit/s

95th percentile per-packet one-way delay: 86.149 ms

Loss rate: 0.00%

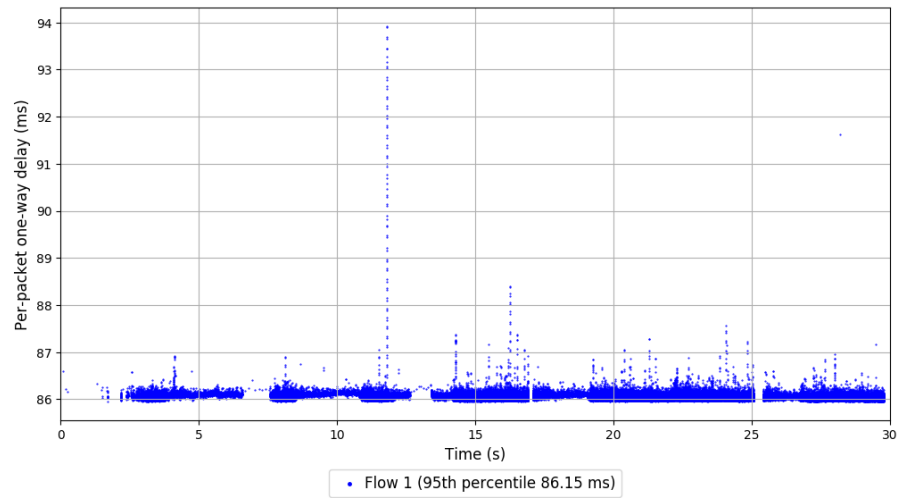
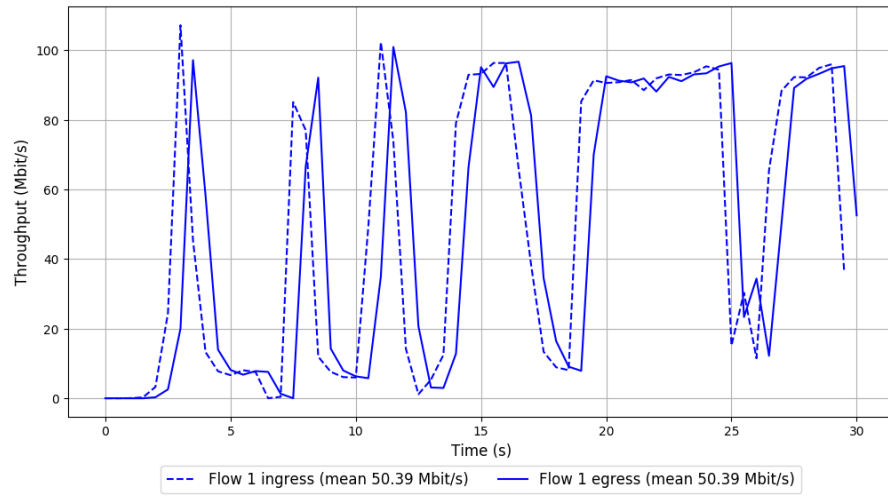
-- Flow 1:

Average throughput: 50.39 Mbit/s

95th percentile per-packet one-way delay: 86.149 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

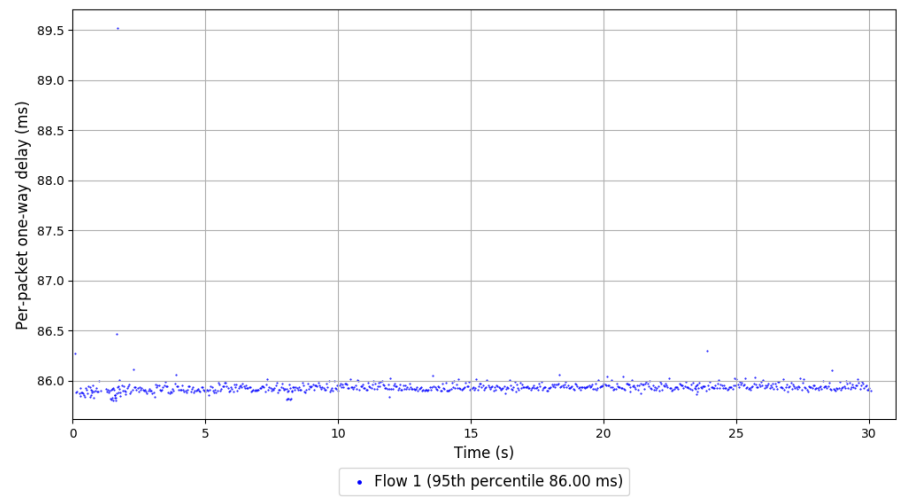
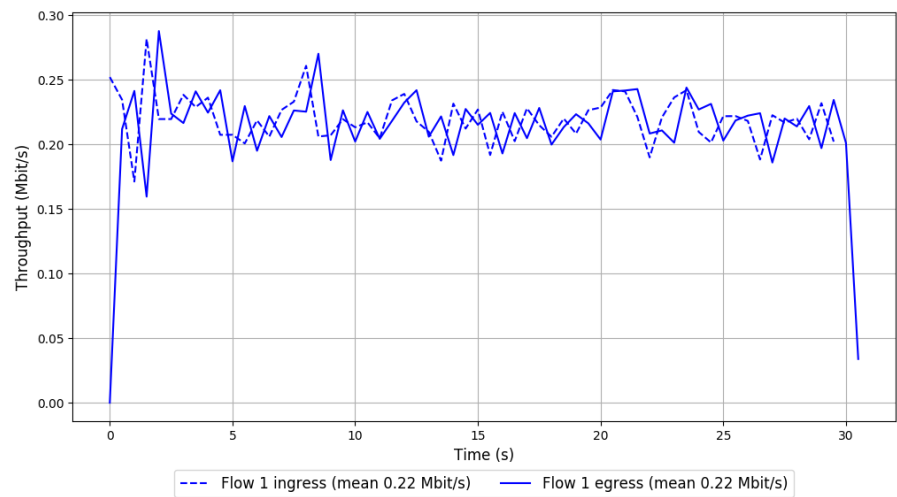


```
Run 1: Statistics of SCReAM

Start at: 2019-01-17 05:27:27
End at: 2019-01-17 05:27:57
Local clock offset: 1.114 ms
Remote clock offset: 1.005 ms

# Below is generated by plot.py at 2019-01-17 09:37:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.998 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.998 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-01-17 05:59:02

End at: 2019-01-17 05:59:32

Local clock offset: 0.166 ms

Remote clock offset: 0.301 ms

Below is generated by plot.py at 2019-01-17 09:37:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.574 ms

Loss rate: 0.00%

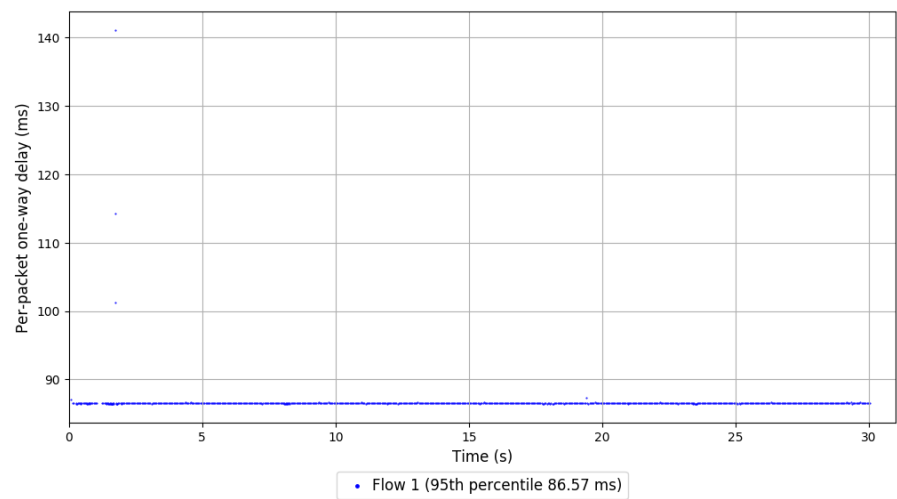
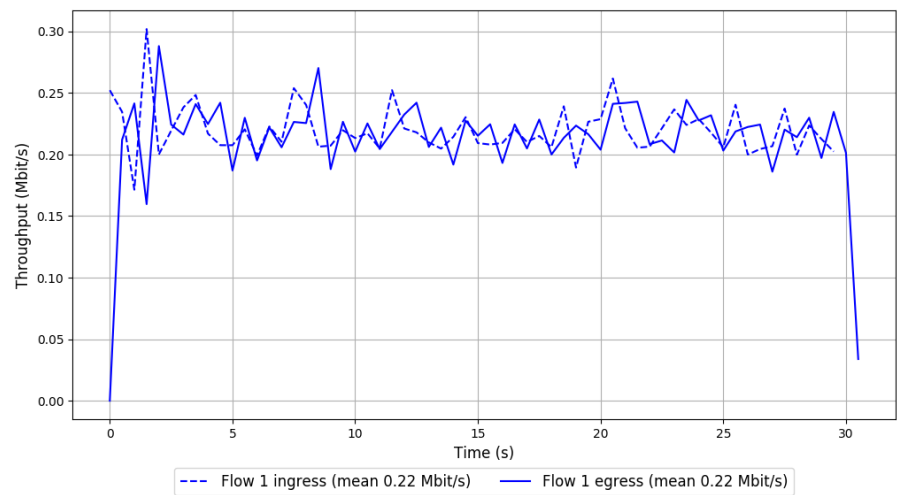
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.574 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-01-17 06:30:18

End at: 2019-01-17 06:30:48

Local clock offset: 0.055 ms

Remote clock offset: 0.134 ms

Below is generated by plot.py at 2019-01-17 09:37:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.504 ms

Loss rate: 0.00%

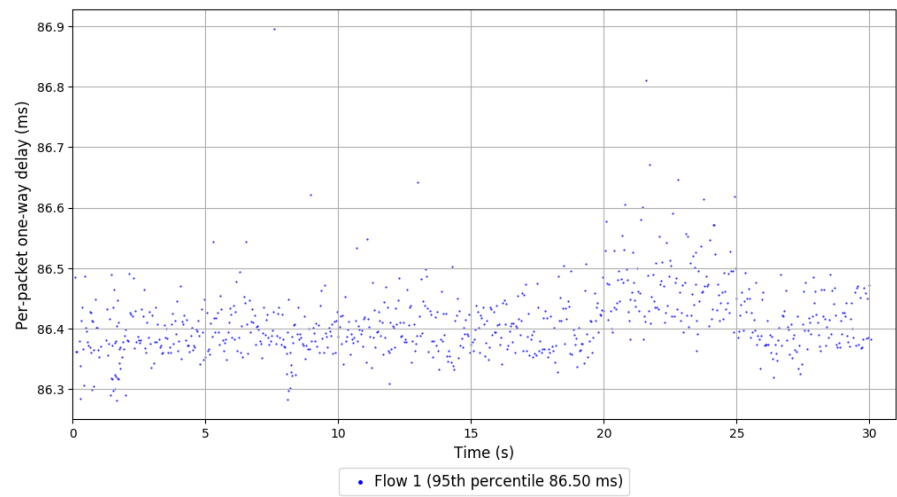
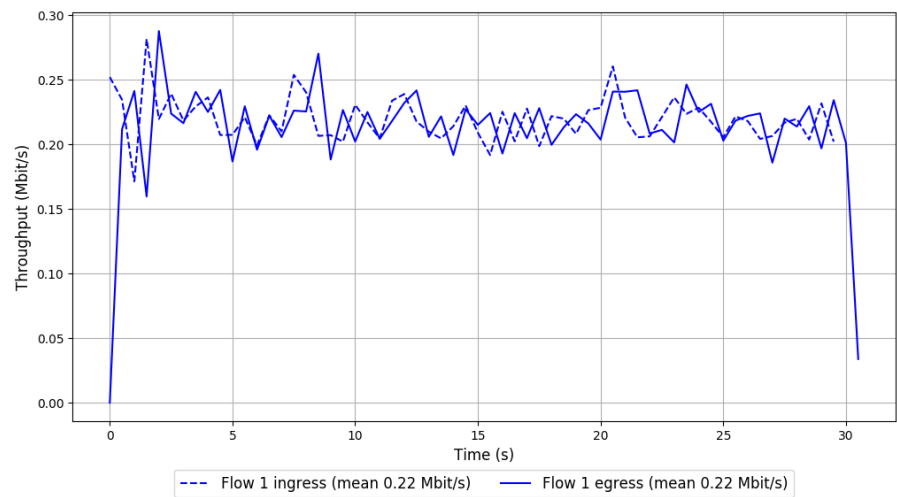
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.504 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-01-17 07:01:54

End at: 2019-01-17 07:02:24

Local clock offset: 0.14 ms

Remote clock offset: 0.042 ms

Below is generated by plot.py at 2019-01-17 09:37:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.262 ms

Loss rate: 0.00%

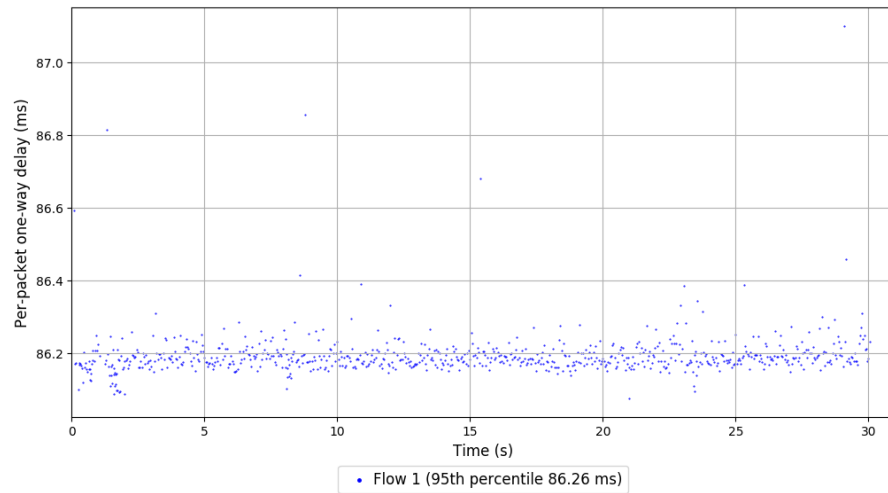
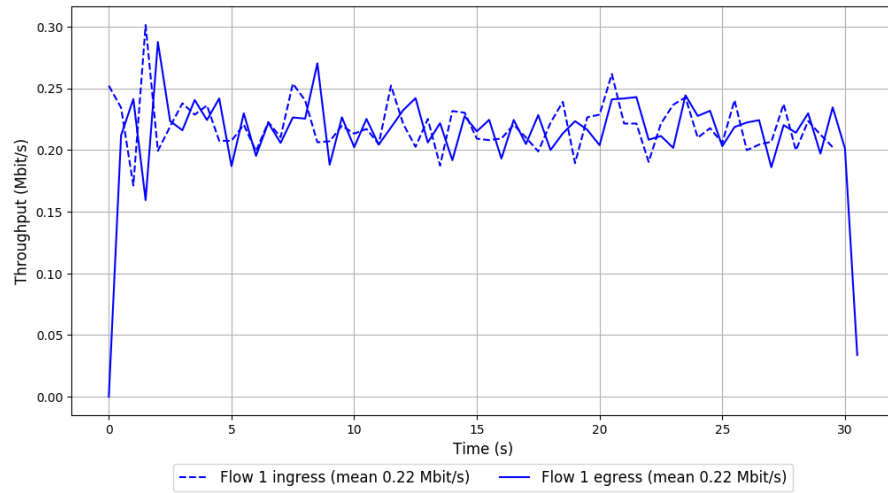
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.262 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

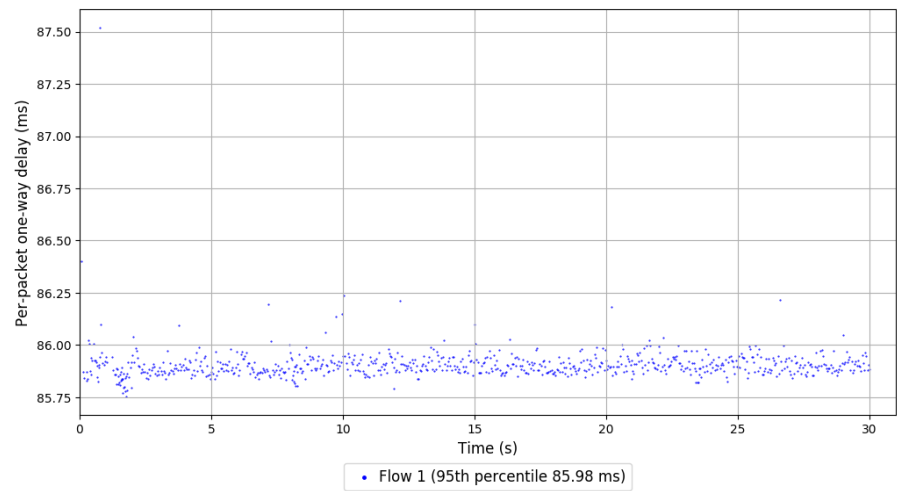
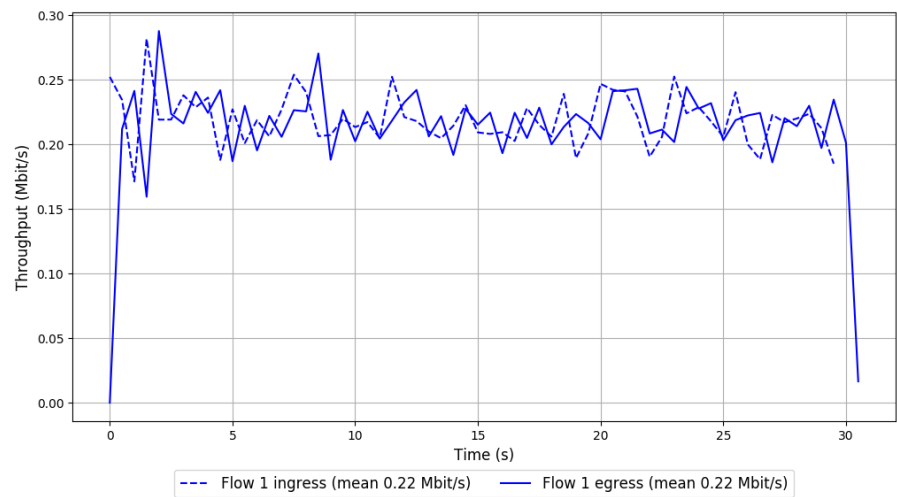


Run 5: Statistics of SCReAM

Start at: 2019-01-17 07:33:29
End at: 2019-01-17 07:33:59
Local clock offset: 0.18 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2019-01-17 09:37:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.985 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.985 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-01-17 05:28:36

End at: 2019-01-17 05:29:06

Local clock offset: 0.175 ms

Remote clock offset: 0.996 ms

Below is generated by plot.py at 2019-01-17 09:37:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.57 Mbit/s

95th percentile per-packet one-way delay: 87.459 ms

Loss rate: 0.00%

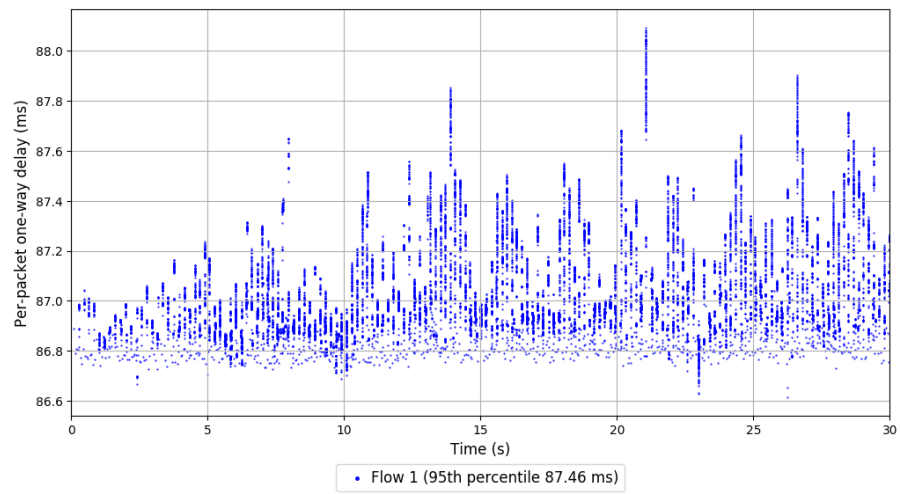
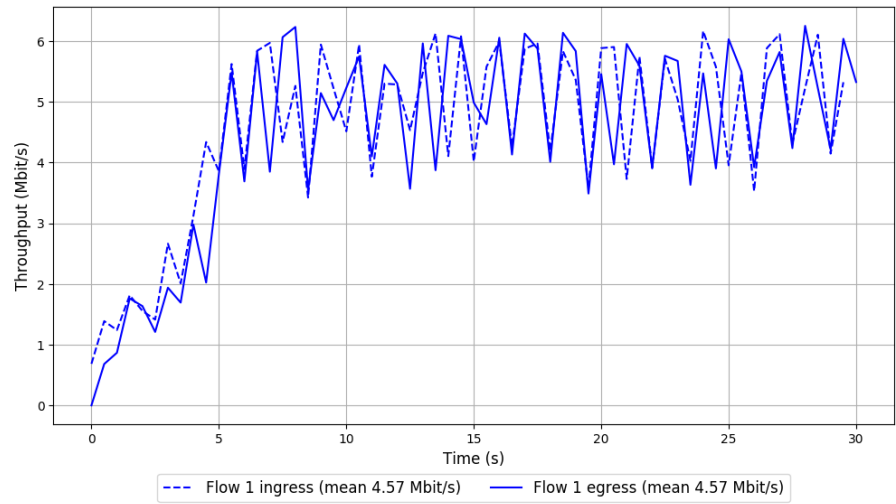
-- Flow 1:

Average throughput: 4.57 Mbit/s

95th percentile per-packet one-way delay: 87.459 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-01-17 06:00:11

End at: 2019-01-17 06:00:41

Local clock offset: 0.659 ms

Remote clock offset: 0.317 ms

Below is generated by plot.py at 2019-01-17 09:37:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 86.430 ms

Loss rate: 0.00%

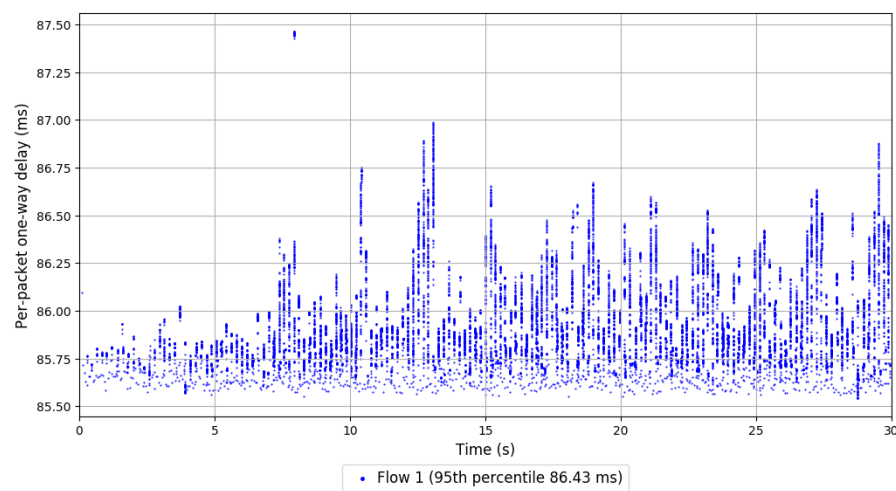
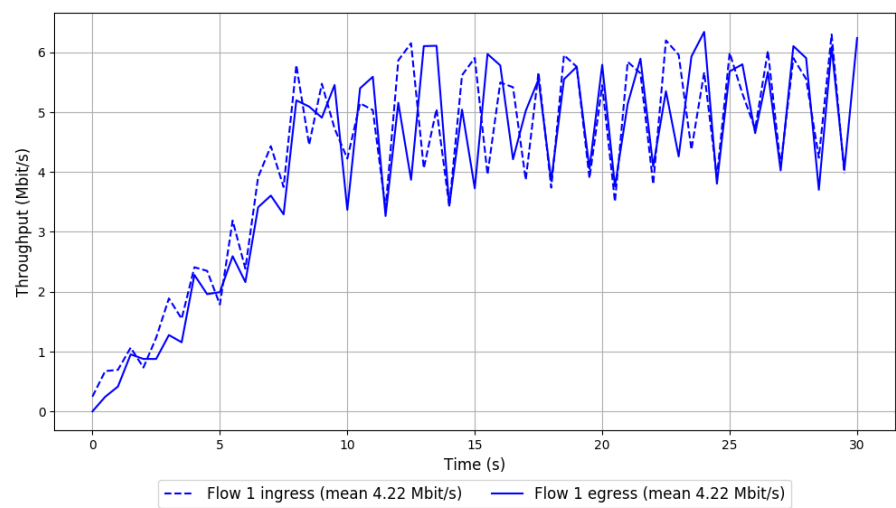
-- Flow 1:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 86.430 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-01-17 06:31:27

End at: 2019-01-17 06:31:57

Local clock offset: 0.061 ms

Remote clock offset: 0.142 ms

Below is generated by plot.py at 2019-01-17 09:37:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 86.742 ms

Loss rate: 0.00%

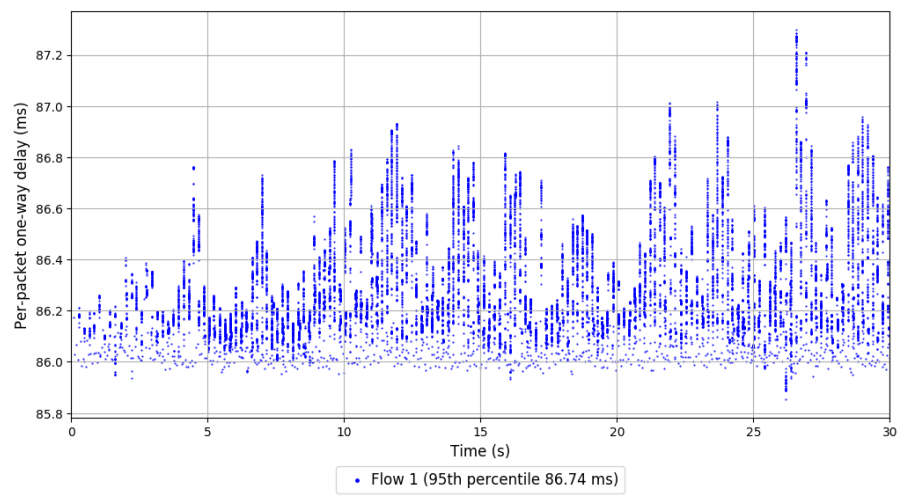
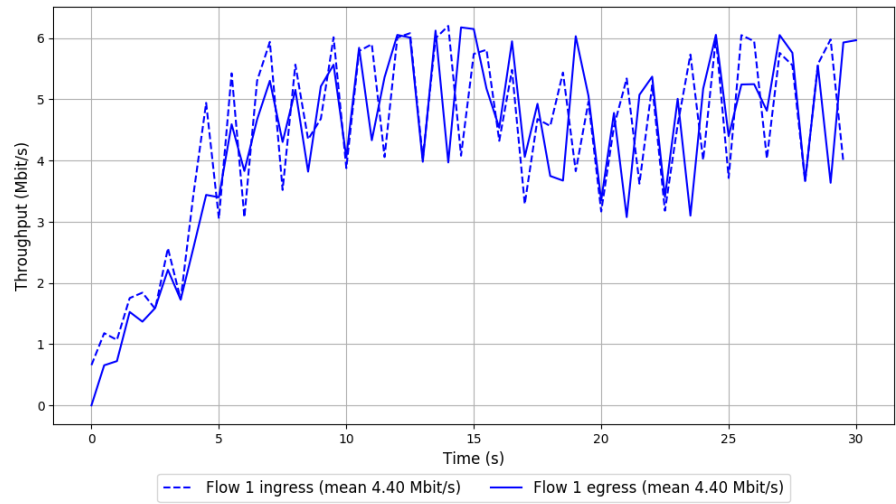
-- Flow 1:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 86.742 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

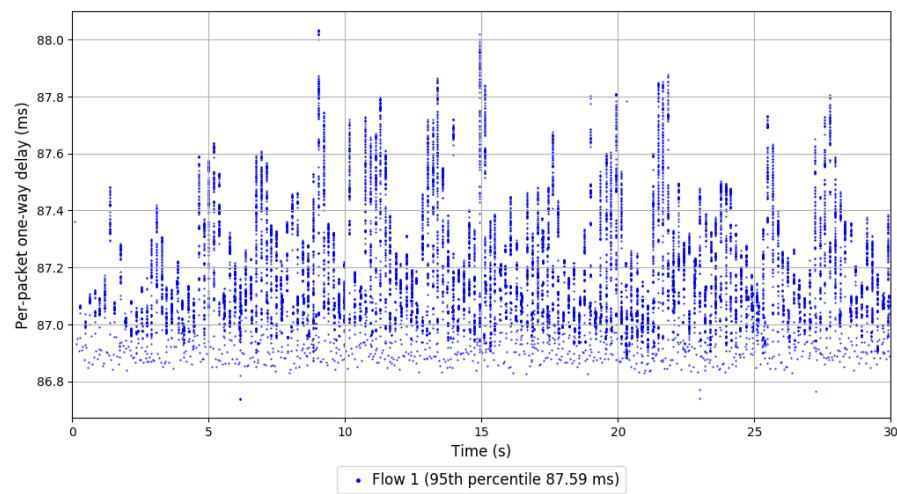
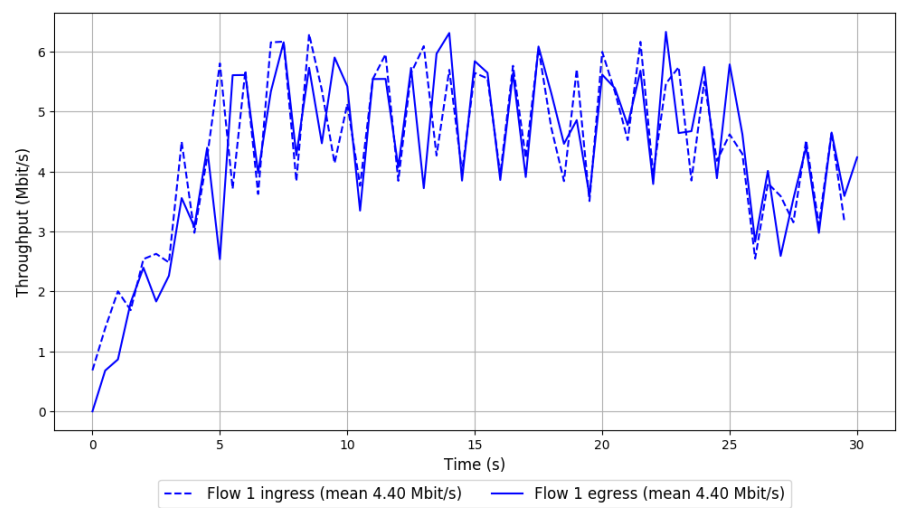


Run 4: Statistics of Sprout

Start at: 2019-01-17 07:03:03
End at: 2019-01-17 07:03:33
Local clock offset: -0.165 ms
Remote clock offset: 0.064 ms

Below is generated by plot.py at 2019-01-17 09:37:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 87.590 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 87.590 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-01-17 07:34:38

End at: 2019-01-17 07:35:08

Local clock offset: 0.103 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2019-01-17 09:37:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.69 Mbit/s

95th percentile per-packet one-way delay: 86.629 ms

Loss rate: 0.00%

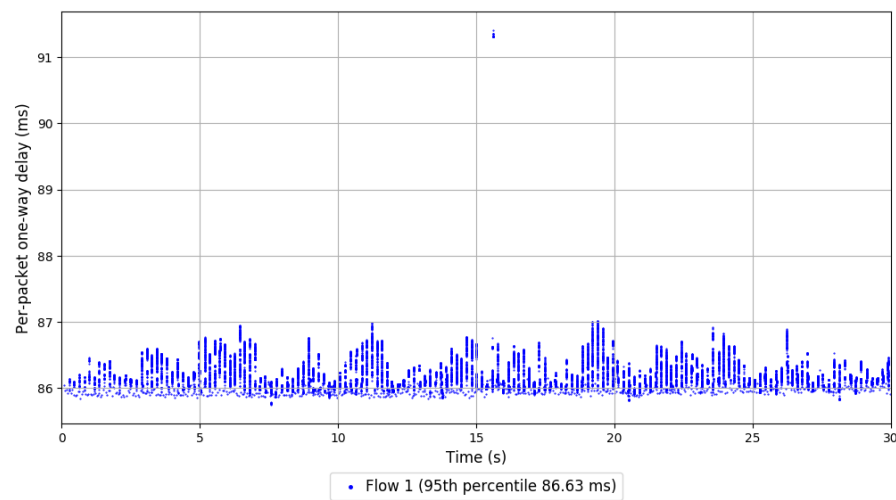
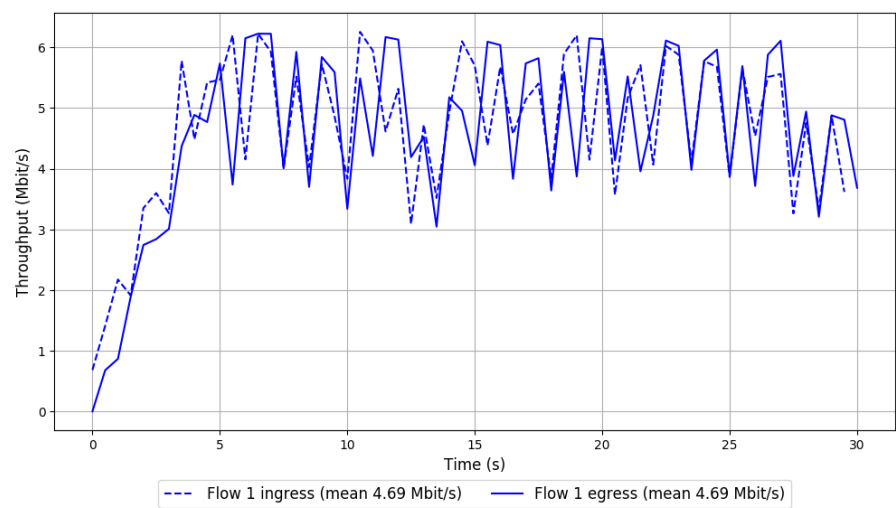
-- Flow 1:

Average throughput: 4.69 Mbit/s

95th percentile per-packet one-way delay: 86.629 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

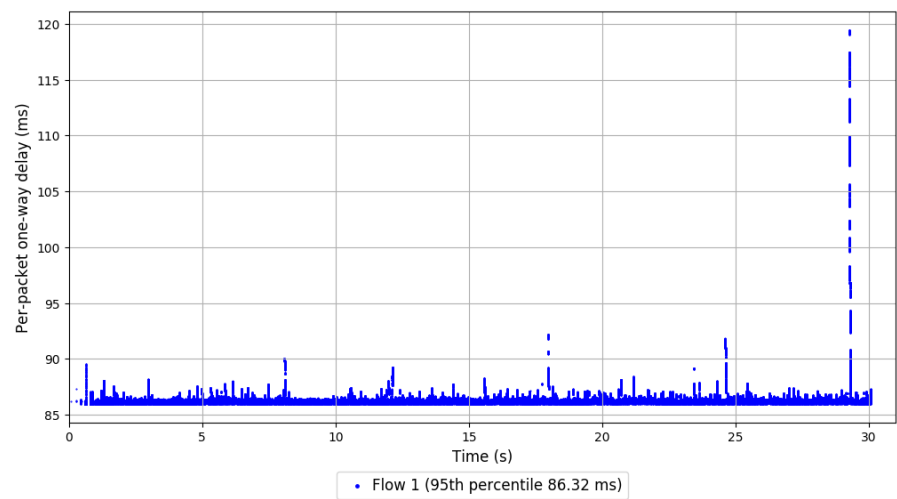
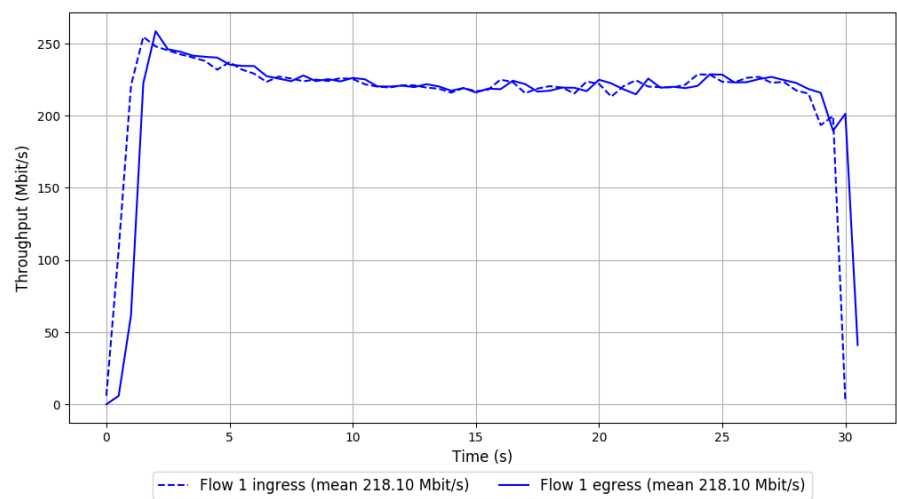



```
Run 1: Statistics of TaoVA-100x

Start at: 2019-01-17 05:36:28
End at: 2019-01-17 05:36:58
Local clock offset: 0.633 ms
Remote clock offset: 0.978 ms

# Below is generated by plot.py at 2019-01-17 09:38:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.10 Mbit/s
95th percentile per-packet one-way delay: 86.321 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 218.10 Mbit/s
95th percentile per-packet one-way delay: 86.321 ms
Loss rate: 0.00%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-01-17 06:08:09

End at: 2019-01-17 06:08:39

Local clock offset: 0.393 ms

Remote clock offset: 0.367 ms

Below is generated by plot.py at 2019-01-17 09:38:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.44 Mbit/s

95th percentile per-packet one-way delay: 86.513 ms

Loss rate: 0.00%

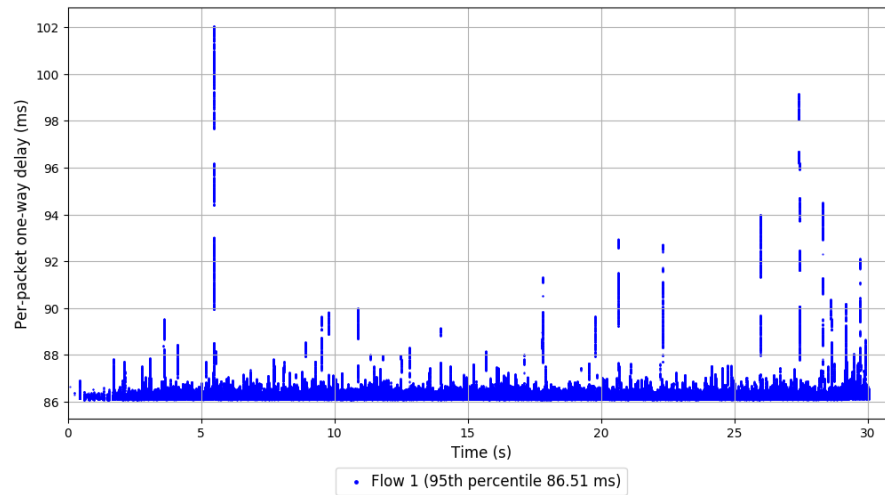
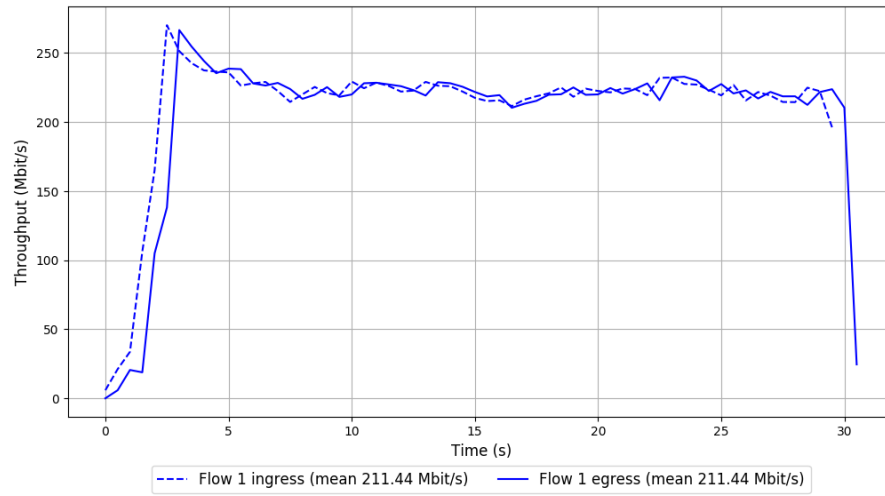
-- Flow 1:

Average throughput: 211.44 Mbit/s

95th percentile per-packet one-way delay: 86.513 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-01-17 06:39:23

End at: 2019-01-17 06:39:53

Local clock offset: -0.203 ms

Remote clock offset: 0.266 ms

Below is generated by plot.py at 2019-01-17 09:38:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.22 Mbit/s

95th percentile per-packet one-way delay: 87.384 ms

Loss rate: 0.00%

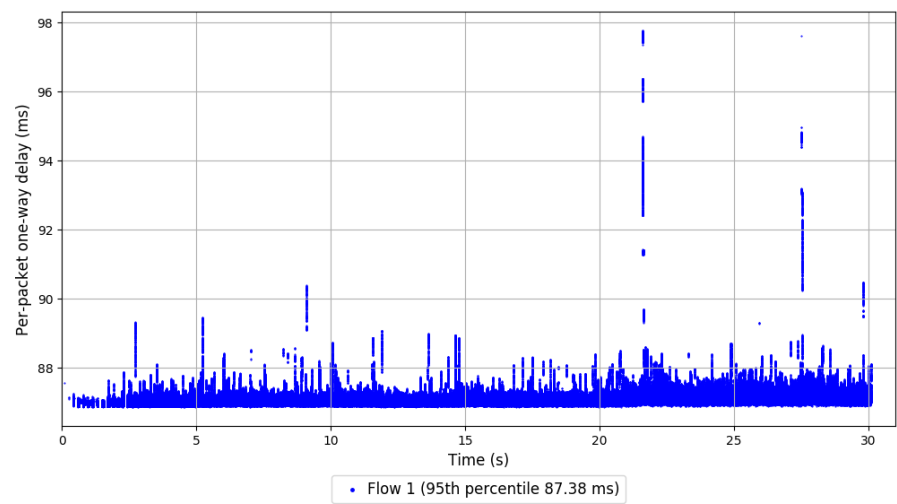
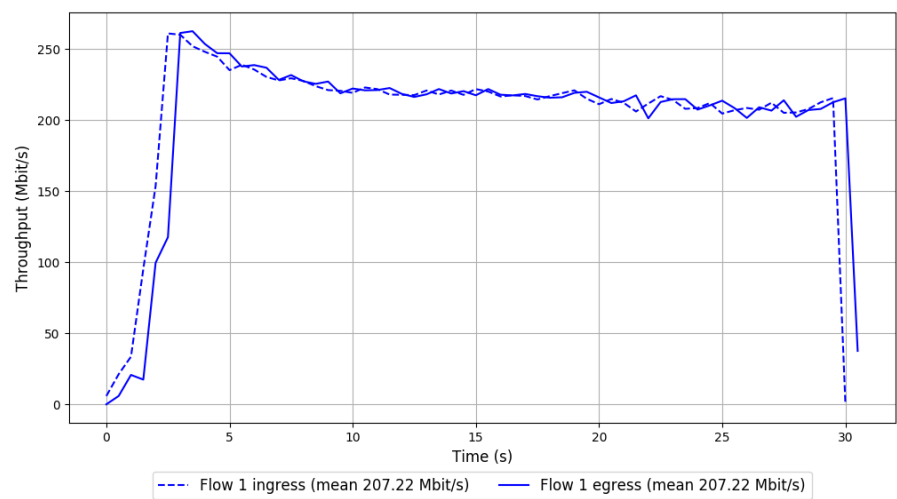
-- Flow 1:

Average throughput: 207.22 Mbit/s

95th percentile per-packet one-way delay: 87.384 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-01-17 07:10:57

End at: 2019-01-17 07:11:28

Local clock offset: -0.338 ms

Remote clock offset: -0.01 ms

Below is generated by plot.py at 2019-01-17 09:38:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.49 Mbit/s

95th percentile per-packet one-way delay: 86.443 ms

Loss rate: 0.00%

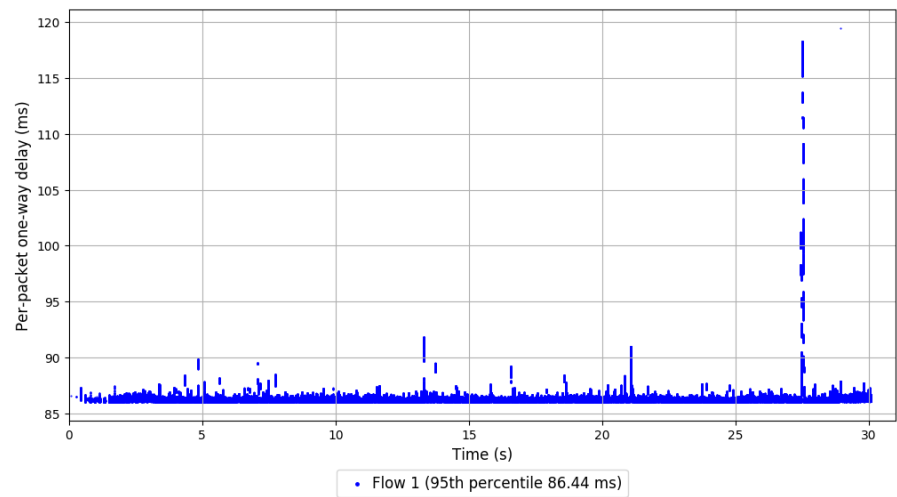
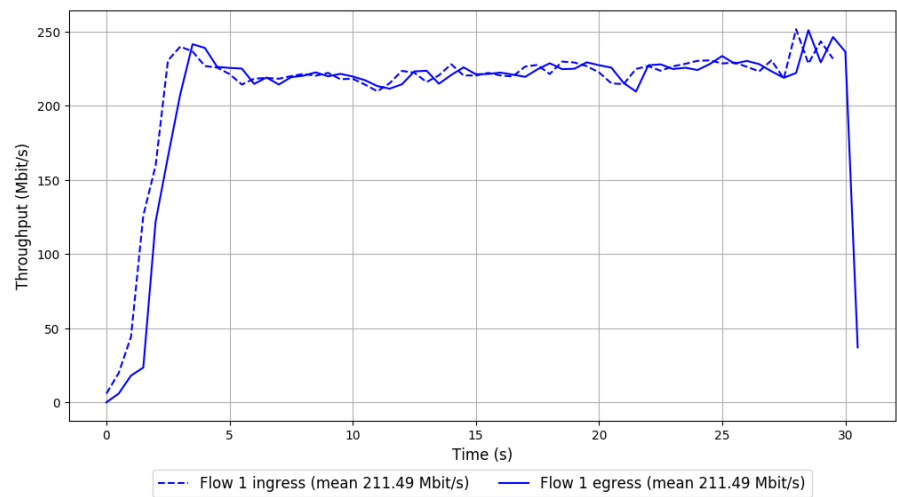
-- Flow 1:

Average throughput: 211.49 Mbit/s

95th percentile per-packet one-way delay: 86.443 ms

Loss rate: 0.00%

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

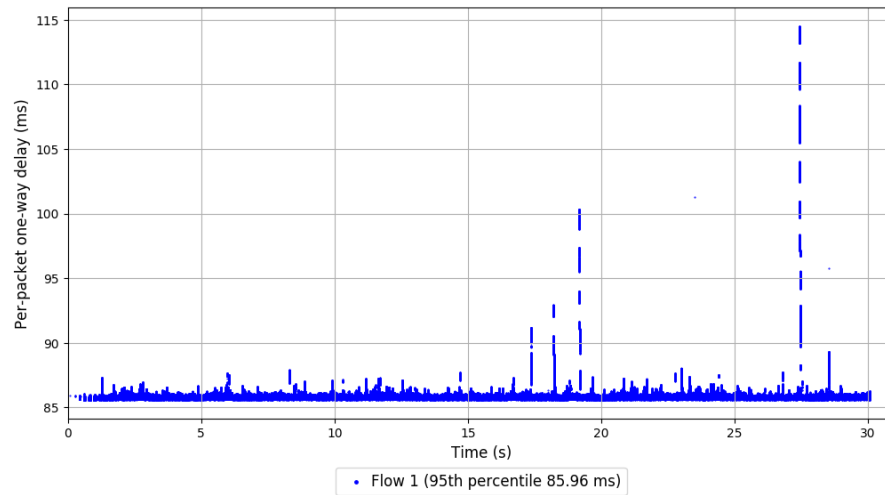
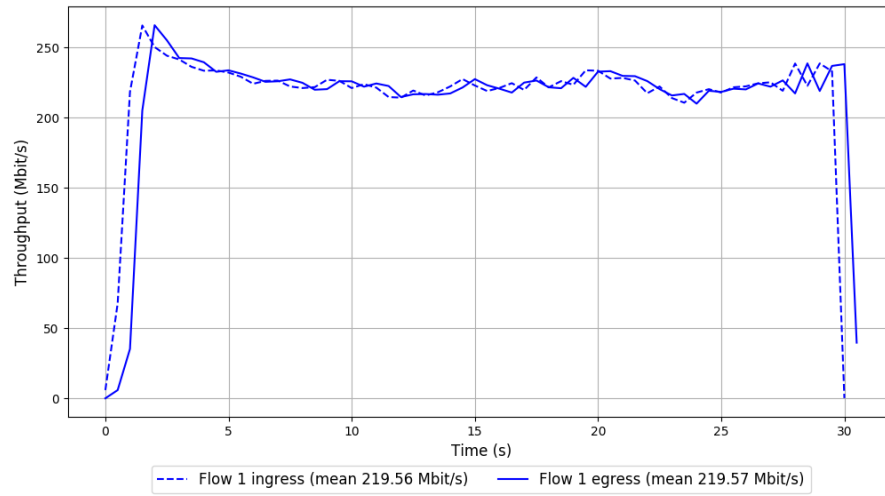


Run 5: Statistics of TaoVA-100x

Start at: 2019-01-17 07:42:51
End at: 2019-01-17 07:43:21
Local clock offset: 0.561 ms
Remote clock offset: -0.068 ms

Below is generated by plot.py at 2019-01-17 09:40:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 219.57 Mbit/s
95th percentile per-packet one-way delay: 85.958 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 219.57 Mbit/s
95th percentile per-packet one-way delay: 85.958 ms
Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-01-17 05:18:42

End at: 2019-01-17 05:19:12

Local clock offset: 0.984 ms

Remote clock offset: 1.626 ms

Below is generated by plot.py at 2019-01-17 09:42:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 525.01 Mbit/s

95th percentile per-packet one-way delay: 141.037 ms

Loss rate: 0.05%

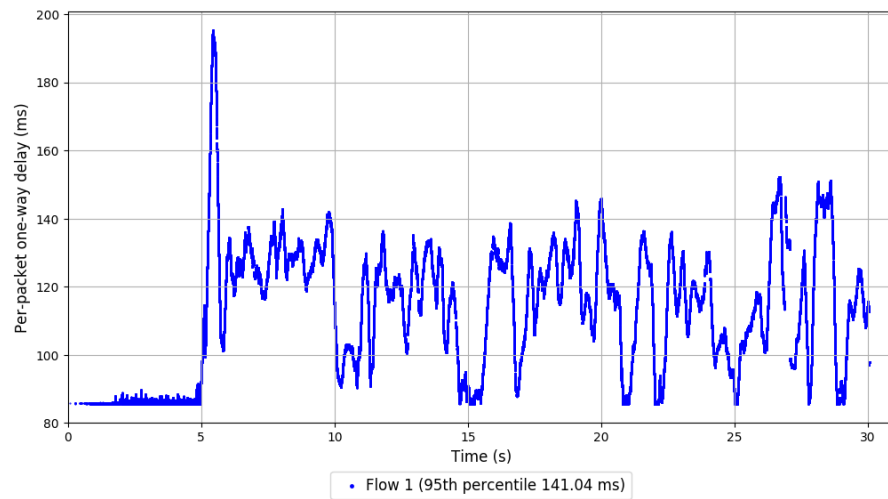
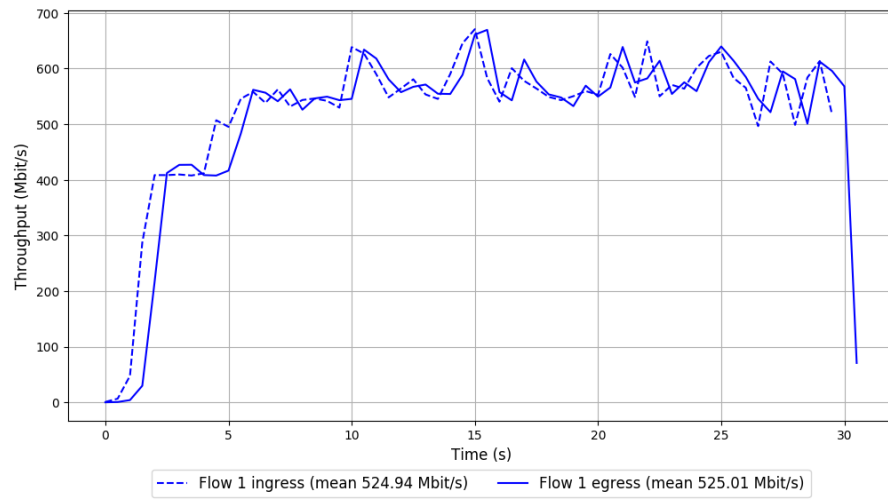
-- Flow 1:

Average throughput: 525.01 Mbit/s

95th percentile per-packet one-way delay: 141.037 ms

Loss rate: 0.05%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-01-17 05:50:10

End at: 2019-01-17 05:50:40

Local clock offset: 0.314 ms

Remote clock offset: 0.492 ms

Below is generated by plot.py at 2019-01-17 09:47:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 515.37 Mbit/s

95th percentile per-packet one-way delay: 133.810 ms

Loss rate: 0.15%

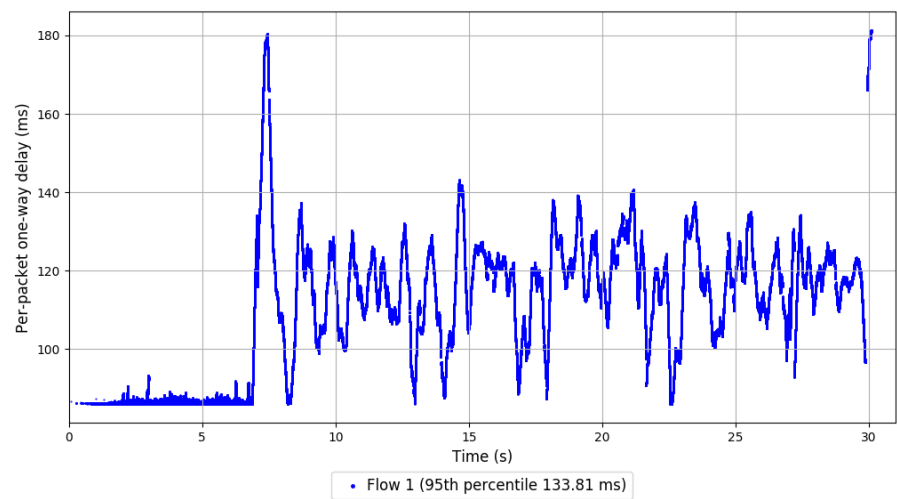
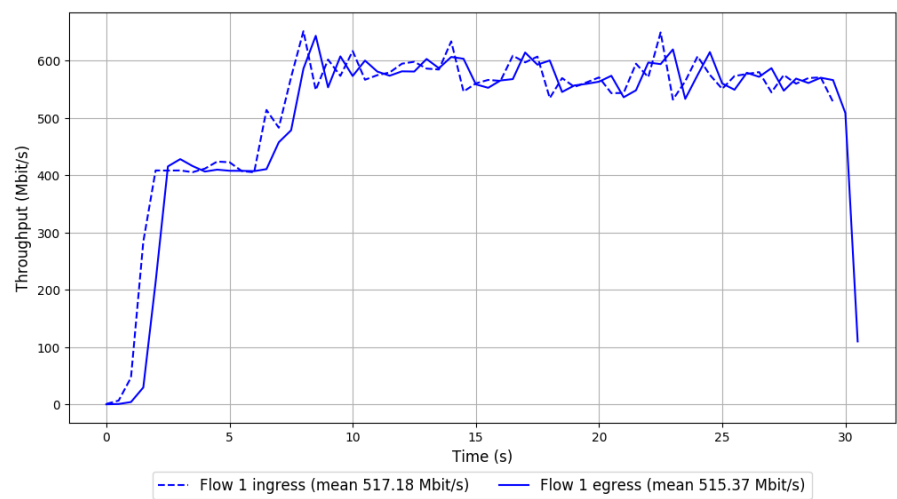
-- Flow 1:

Average throughput: 515.37 Mbit/s

95th percentile per-packet one-way delay: 133.810 ms

Loss rate: 0.15%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-01-17 06:21:36

End at: 2019-01-17 06:22:06

Local clock offset: 0.134 ms

Remote clock offset: 0.232 ms

Below is generated by plot.py at 2019-01-17 09:48:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 539.99 Mbit/s

95th percentile per-packet one-way delay: 156.315 ms

Loss rate: 0.11%

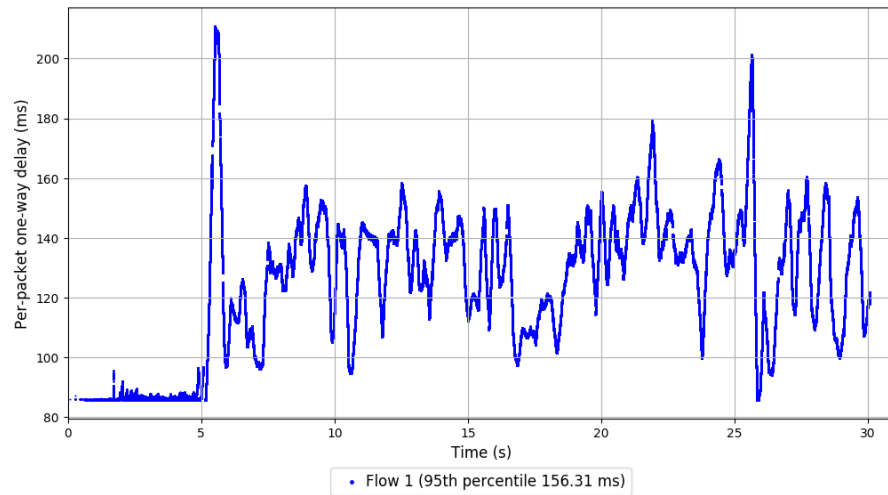
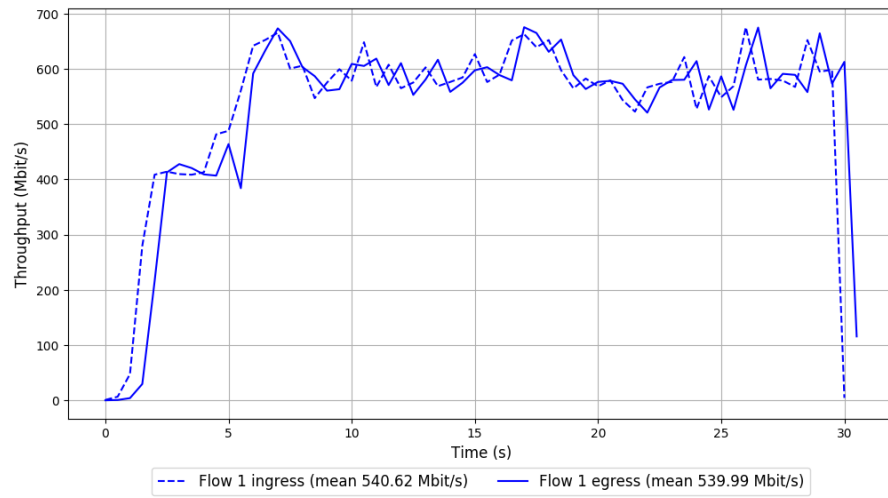
-- Flow 1:

Average throughput: 539.99 Mbit/s

95th percentile per-packet one-way delay: 156.315 ms

Loss rate: 0.11%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-01-17 06:53:01

End at: 2019-01-17 06:53:31

Local clock offset: -0.05 ms

Remote clock offset: 0.147 ms

Below is generated by plot.py at 2019-01-17 09:48:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 497.41 Mbit/s

95th percentile per-packet one-way delay: 99.140 ms

Loss rate: 0.00%

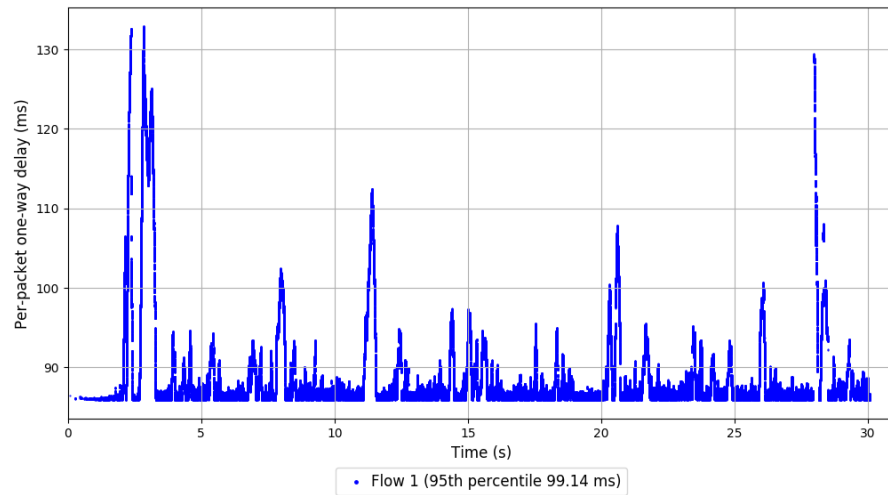
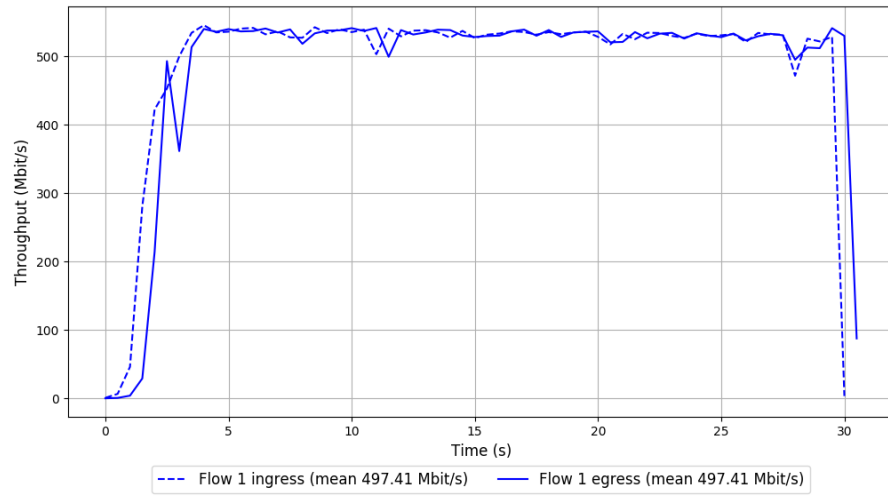
-- Flow 1:

Average throughput: 497.41 Mbit/s

95th percentile per-packet one-way delay: 99.140 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-01-17 07:24:26

End at: 2019-01-17 07:24:56

Local clock offset: 0.041 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2019-01-17 09:49:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 553.21 Mbit/s

95th percentile per-packet one-way delay: 150.813 ms

Loss rate: 0.21%

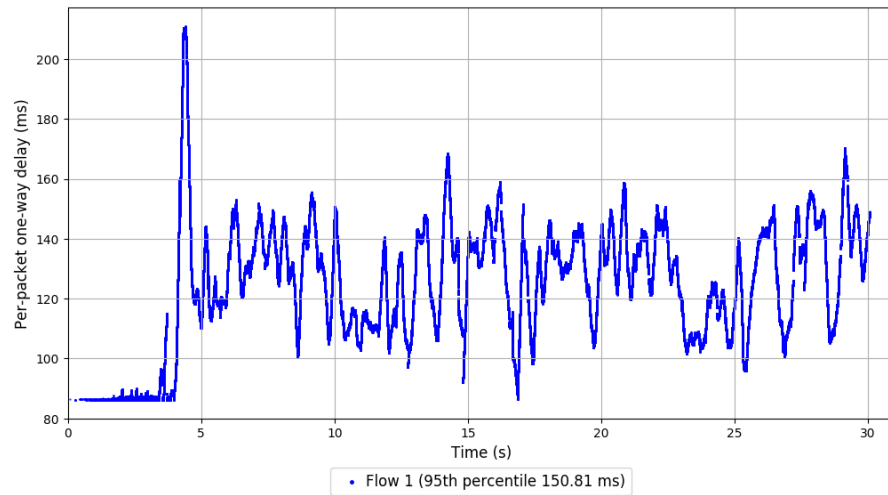
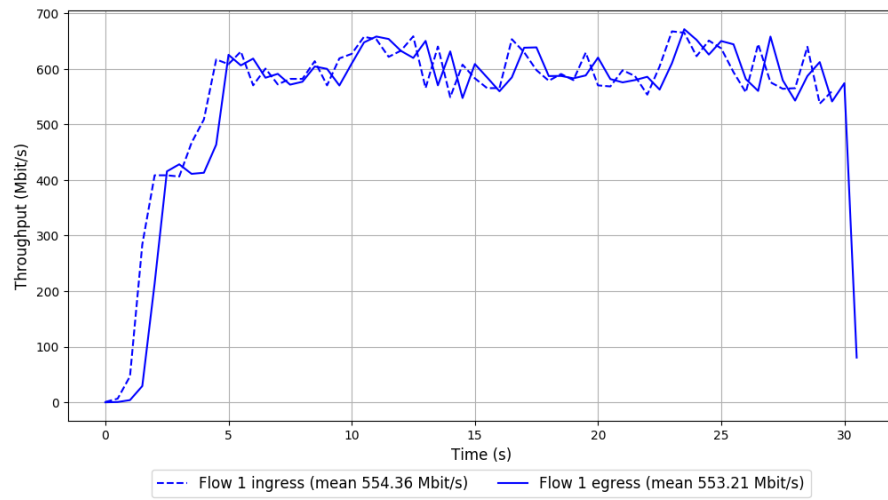
-- Flow 1:

Average throughput: 553.21 Mbit/s

95th percentile per-packet one-way delay: 150.813 ms

Loss rate: 0.21%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-01-17 05:41:23

End at: 2019-01-17 05:41:53

Local clock offset: 0.574 ms

Remote clock offset: 1.009 ms

Below is generated by plot.py at 2019-01-17 09:49:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.38 Mbit/s

95th percentile per-packet one-way delay: 241.433 ms

Loss rate: 11.67%

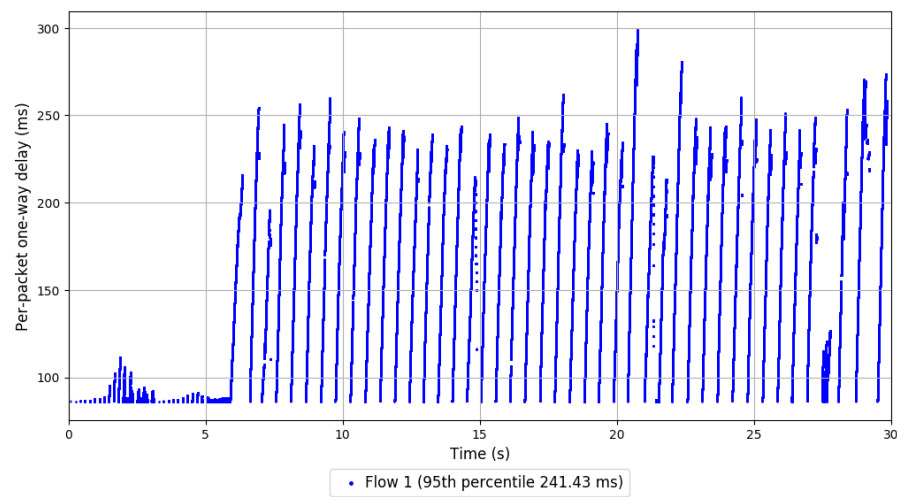
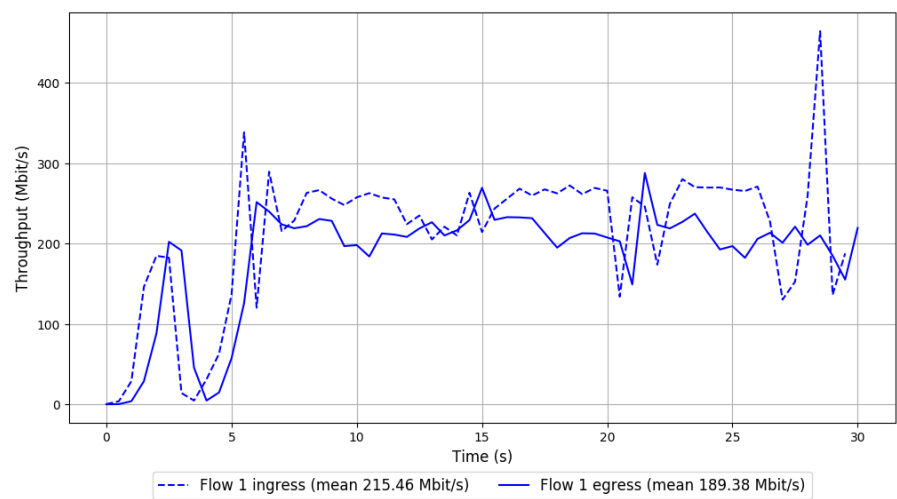
-- Flow 1:

Average throughput: 189.38 Mbit/s

95th percentile per-packet one-way delay: 241.433 ms

Loss rate: 11.67%

Run 1: Report of Verus — Data Link

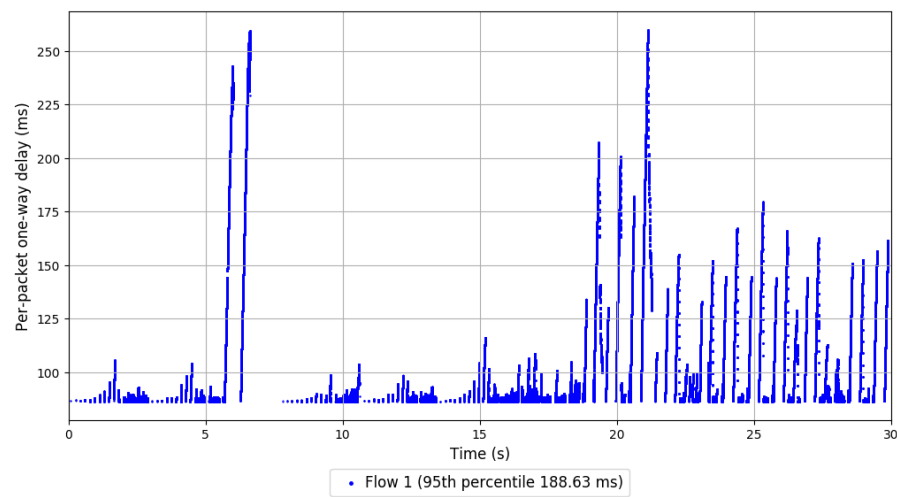
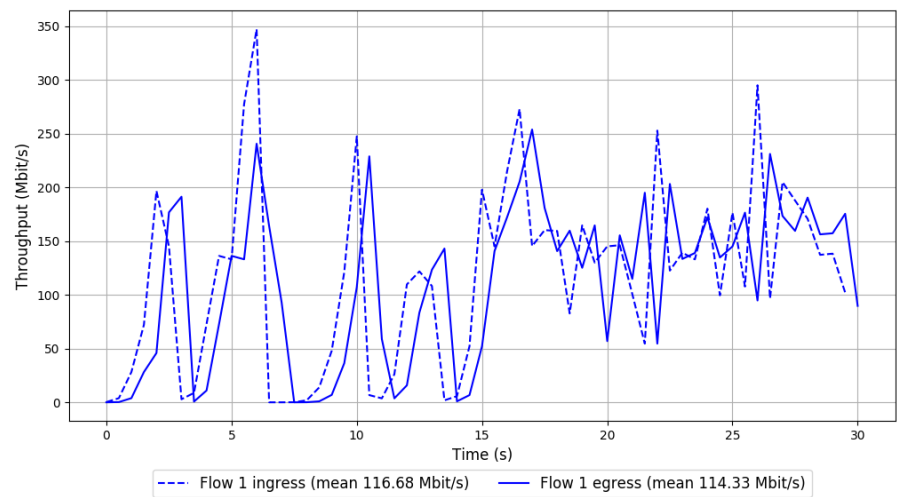


Run 2: Statistics of Verus

Start at: 2019-01-17 06:13:06
End at: 2019-01-17 06:13:36
Local clock offset: -0.095 ms
Remote clock offset: 0.398 ms

Below is generated by plot.py at 2019-01-17 09:49:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 114.33 Mbit/s
95th percentile per-packet one-way delay: 188.629 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 114.33 Mbit/s
95th percentile per-packet one-way delay: 188.629 ms
Loss rate: 2.01%

Run 2: Report of Verus — Data Link

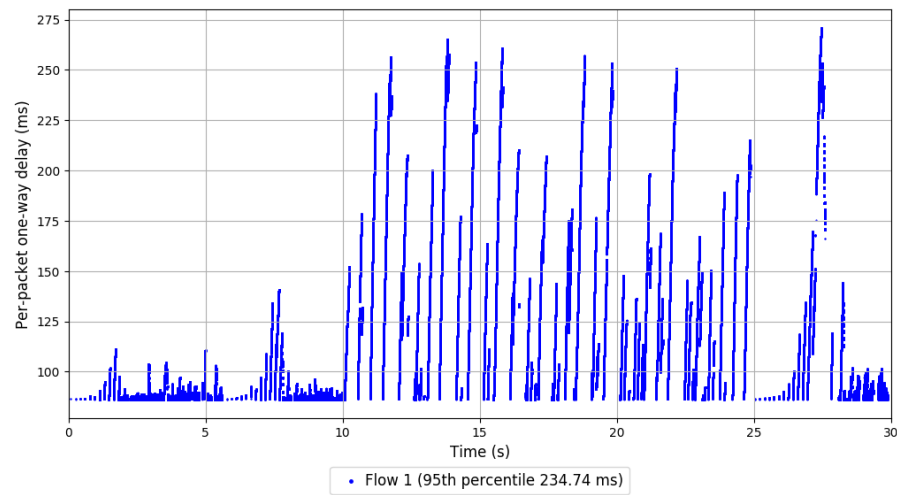
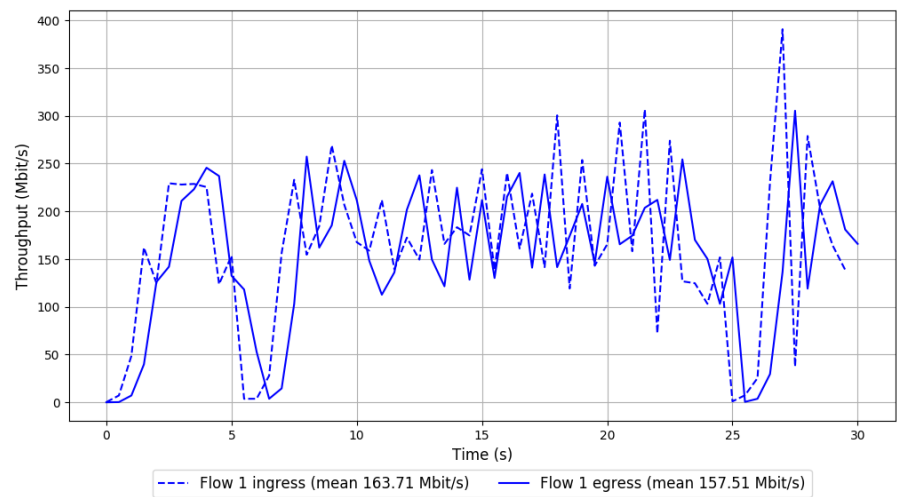


Run 3: Statistics of Verus

Start at: 2019-01-17 06:44:20
End at: 2019-01-17 06:44:50
Local clock offset: -0.169 ms
Remote clock offset: 0.205 ms

Below is generated by plot.py at 2019-01-17 09:49:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 157.51 Mbit/s
95th percentile per-packet one-way delay: 234.738 ms
Loss rate: 3.78%
-- Flow 1:
Average throughput: 157.51 Mbit/s
95th percentile per-packet one-way delay: 234.738 ms
Loss rate: 3.78%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-01-17 07:15:54

End at: 2019-01-17 07:16:24

Local clock offset: -0.128 ms

Remote clock offset: 0.049 ms

Below is generated by plot.py at 2019-01-17 09:49:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 117.11 Mbit/s

95th percentile per-packet one-way delay: 143.424 ms

Loss rate: 0.05%

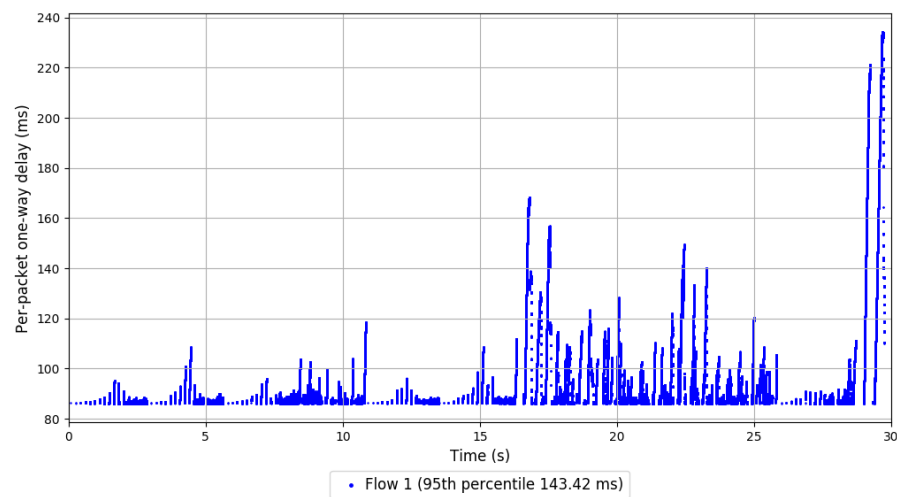
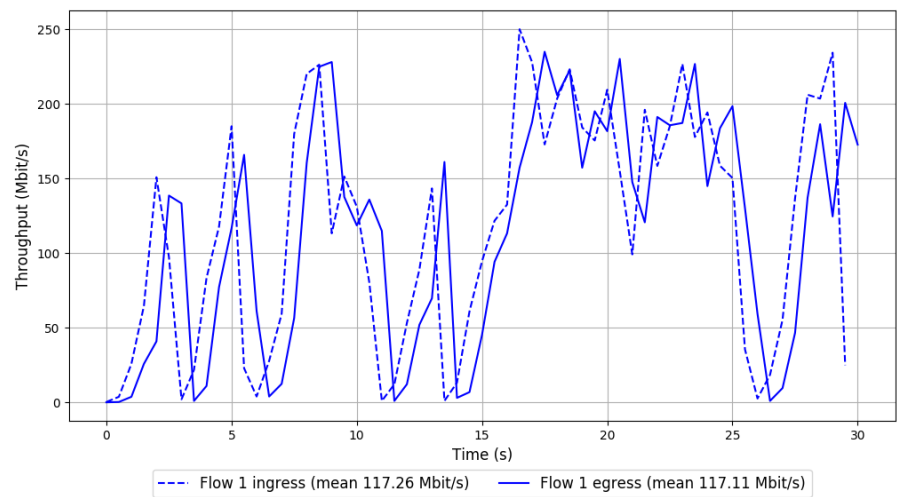
-- Flow 1:

Average throughput: 117.11 Mbit/s

95th percentile per-packet one-way delay: 143.424 ms

Loss rate: 0.05%

Run 4: Report of Verus — Data Link

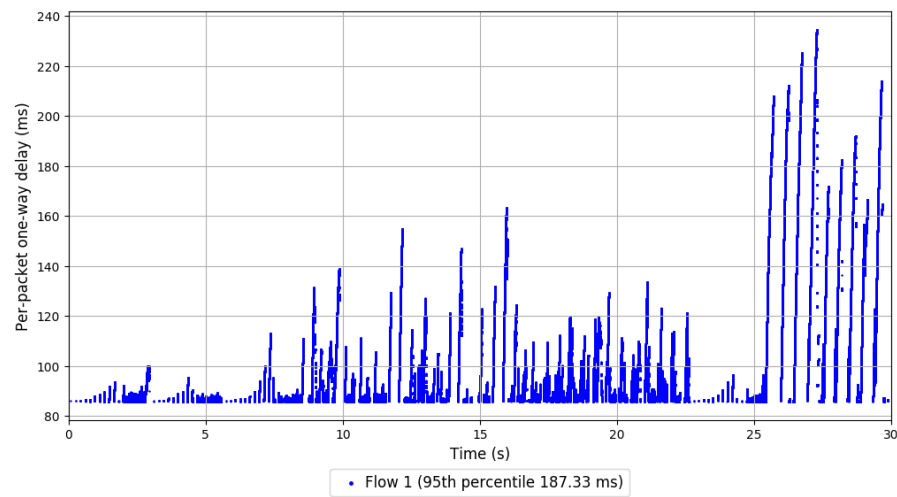
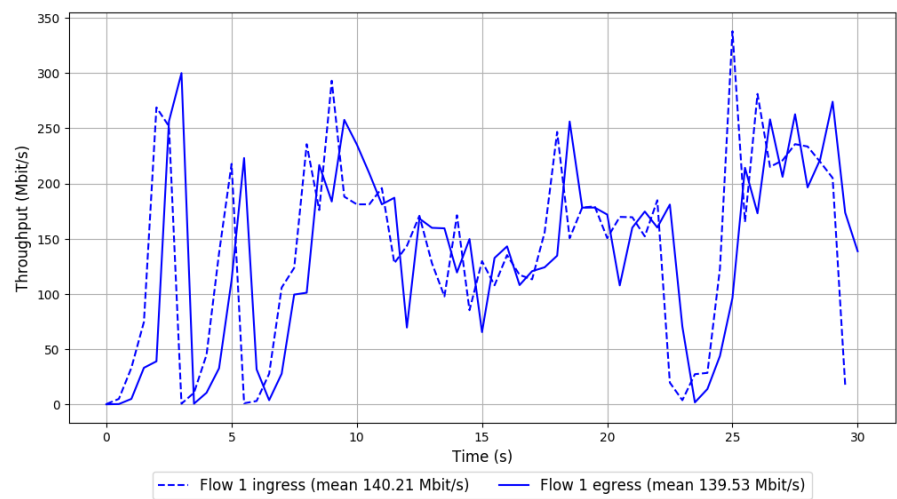


Run 5: Statistics of Verus

Start at: 2019-01-17 07:47:51
End at: 2019-01-17 07:48:21
Local clock offset: 0.396 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2019-01-17 09:49:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 139.53 Mbit/s
95th percentile per-packet one-way delay: 187.332 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 139.53 Mbit/s
95th percentile per-packet one-way delay: 187.332 ms
Loss rate: 0.48%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-01-17 05:14:26

End at: 2019-01-17 05:14:56

Local clock offset: 0.62 ms

Remote clock offset: 2.45 ms

Below is generated by plot.py at 2019-01-17 09:51:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 372.19 Mbit/s

95th percentile per-packet one-way delay: 88.315 ms

Loss rate: 0.00%

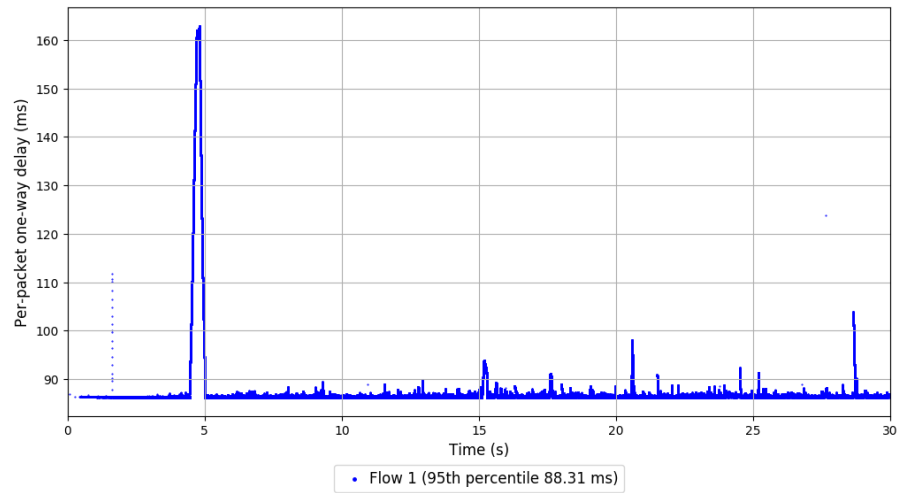
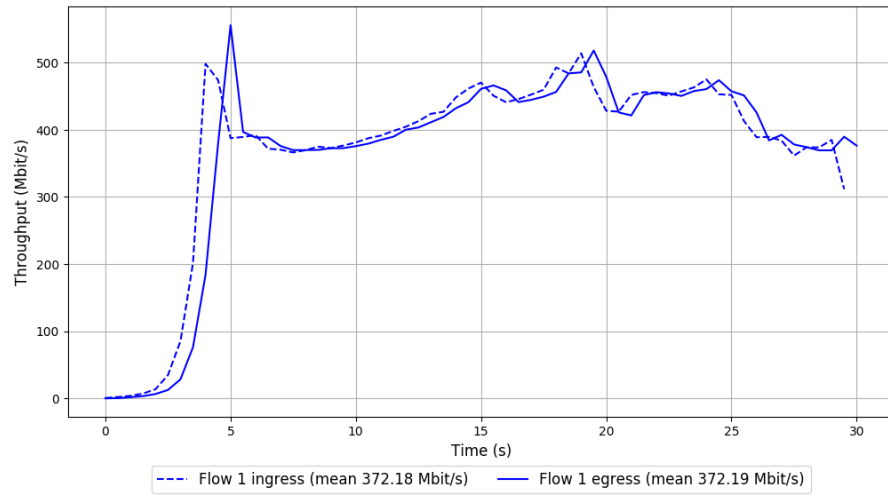
-- Flow 1:

Average throughput: 372.19 Mbit/s

95th percentile per-packet one-way delay: 88.315 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-01-17 05:45:56

End at: 2019-01-17 05:46:26

Local clock offset: 0.861 ms

Remote clock offset: 0.675 ms

Below is generated by plot.py at 2019-01-17 09:52:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 395.38 Mbit/s

95th percentile per-packet one-way delay: 87.421 ms

Loss rate: 0.30%

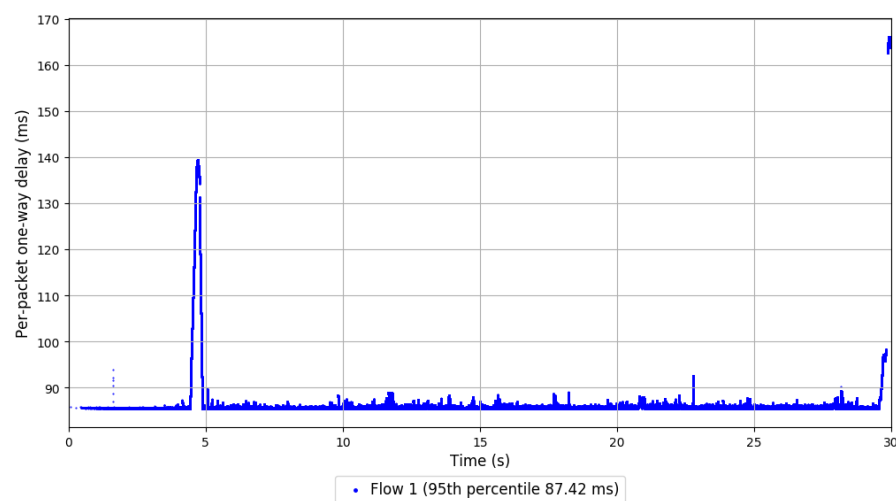
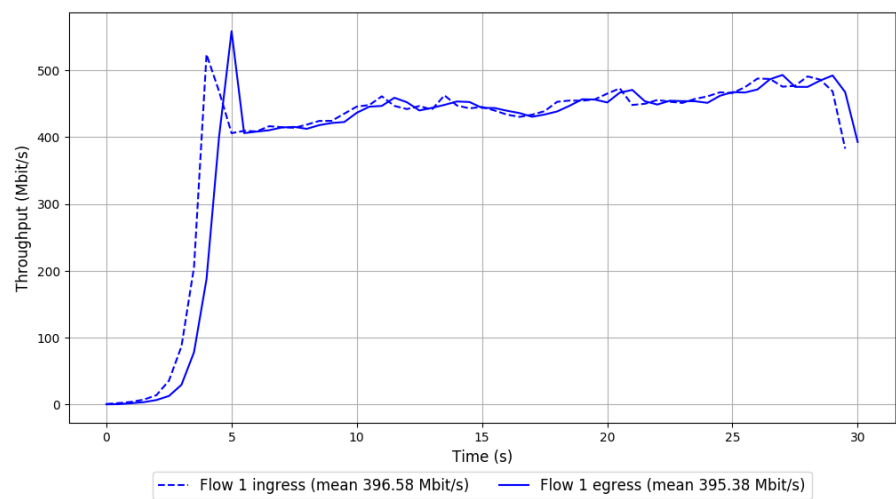
-- Flow 1:

Average throughput: 395.38 Mbit/s

95th percentile per-packet one-way delay: 87.421 ms

Loss rate: 0.30%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-01-17 06:17:23

End at: 2019-01-17 06:17:53

Local clock offset: 0.001 ms

Remote clock offset: 0.387 ms

Below is generated by plot.py at 2019-01-17 09:52:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 397.85 Mbit/s

95th percentile per-packet one-way delay: 88.350 ms

Loss rate: 0.00%

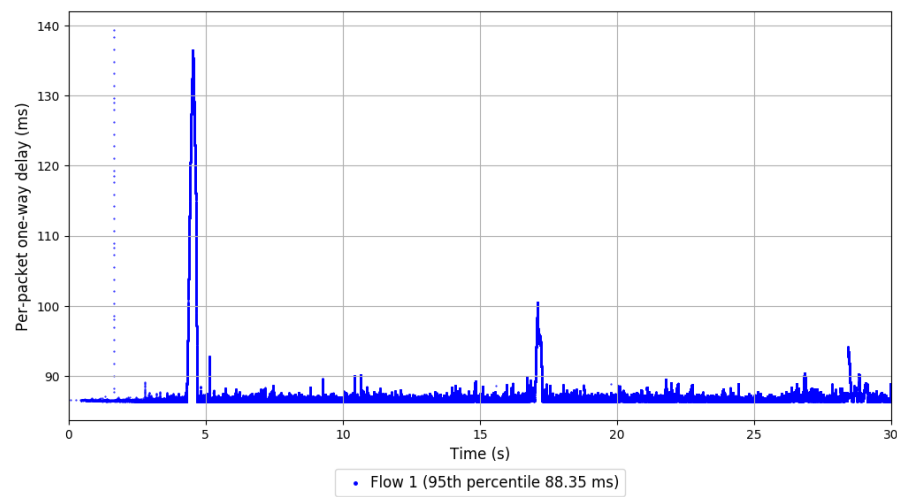
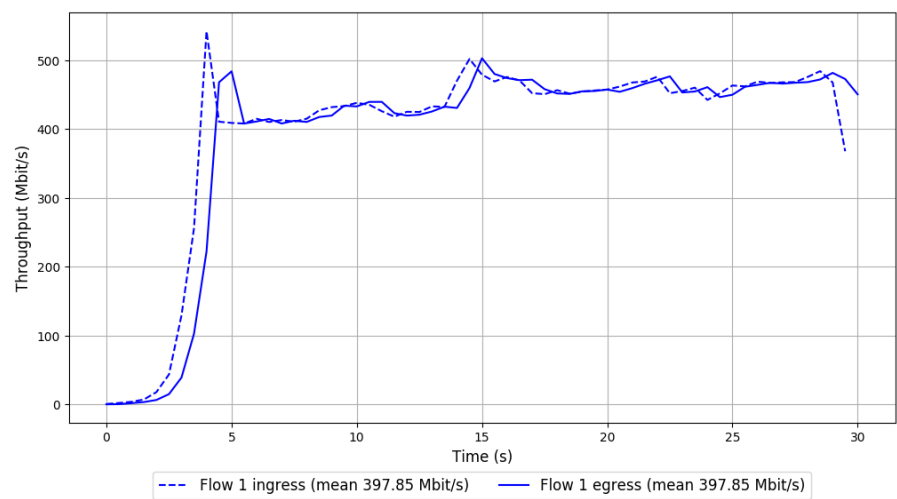
-- Flow 1:

Average throughput: 397.85 Mbit/s

95th percentile per-packet one-way delay: 88.350 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-01-17 06:48:54

End at: 2019-01-17 06:49:24

Local clock offset: 0.38 ms

Remote clock offset: 0.223 ms

Below is generated by plot.py at 2019-01-17 09:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 385.37 Mbit/s

95th percentile per-packet one-way delay: 86.741 ms

Loss rate: 0.00%

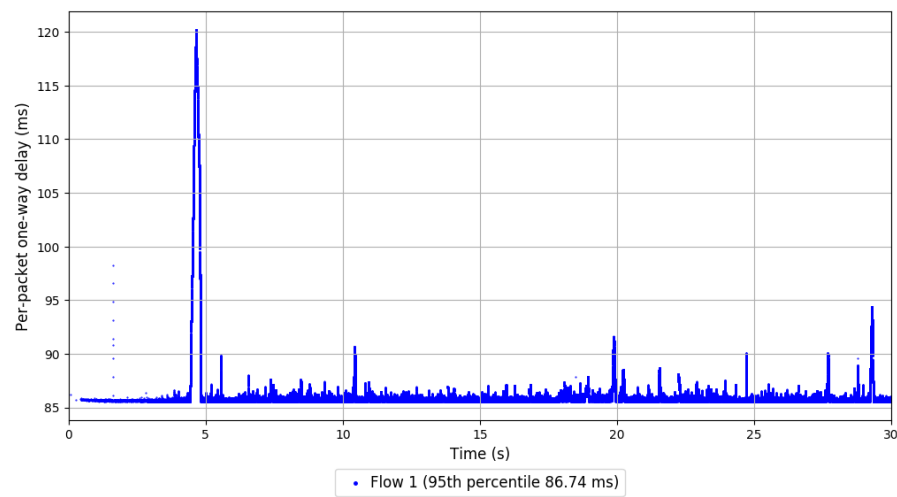
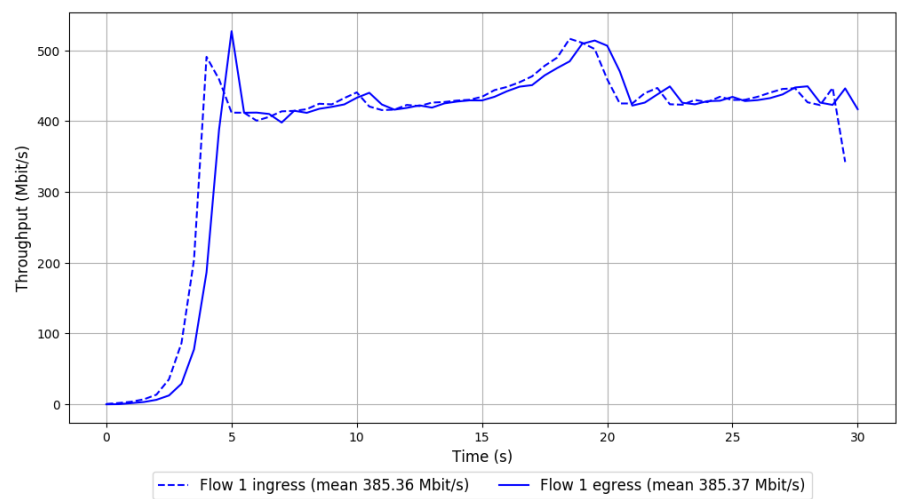
-- Flow 1:

Average throughput: 385.37 Mbit/s

95th percentile per-packet one-way delay: 86.741 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-01-17 07:20:22

End at: 2019-01-17 07:20:52

Local clock offset: -0.318 ms

Remote clock offset: 0.029 ms

Below is generated by plot.py at 2019-01-17 09:52:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 372.40 Mbit/s

95th percentile per-packet one-way delay: 134.232 ms

Loss rate: 0.00%

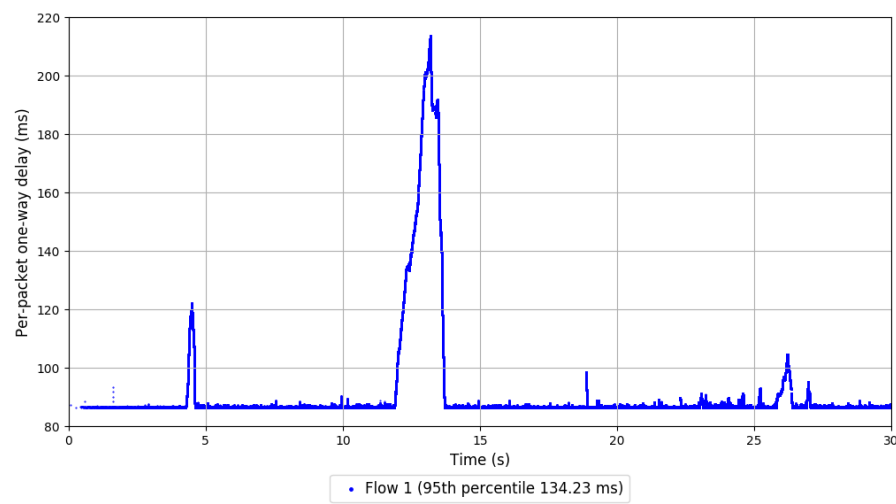
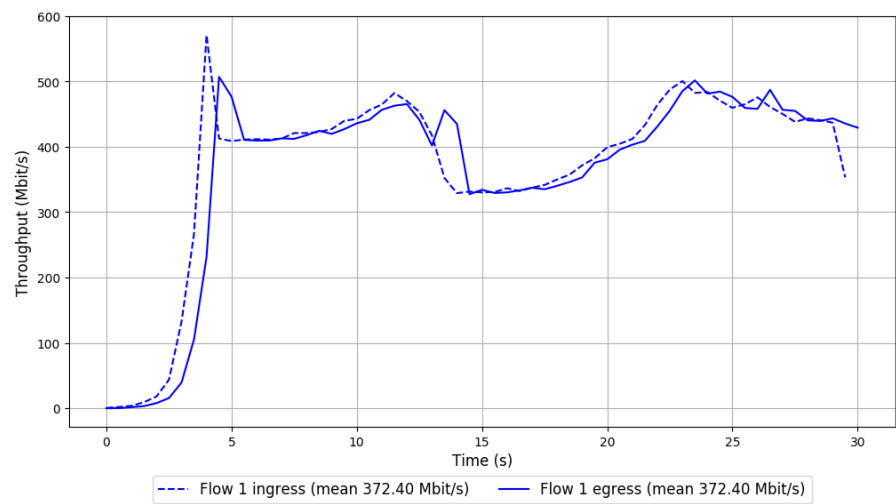
-- Flow 1:

Average throughput: 372.40 Mbit/s

95th percentile per-packet one-way delay: 134.232 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-01-17 05:23:27

End at: 2019-01-17 05:23:57

Local clock offset: 0.568 ms

Remote clock offset: 1.189 ms

Below is generated by plot.py at 2019-01-17 09:52:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.181 ms

Loss rate: 0.00%

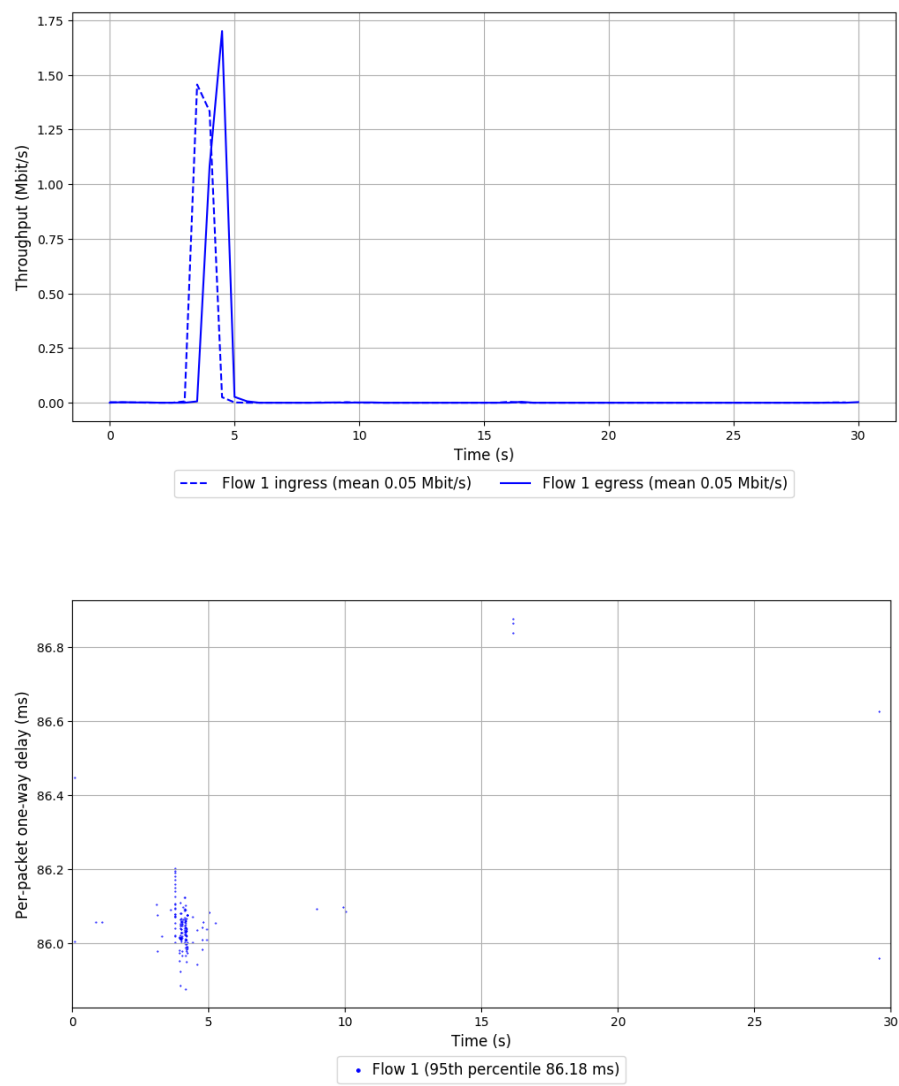
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.181 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-01-17 05:55:02

End at: 2019-01-17 05:55:32

Local clock offset: -0.171 ms

Remote clock offset: 0.267 ms

Below is generated by plot.py at 2019-01-17 09:52:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.564 ms

Loss rate: 0.00%

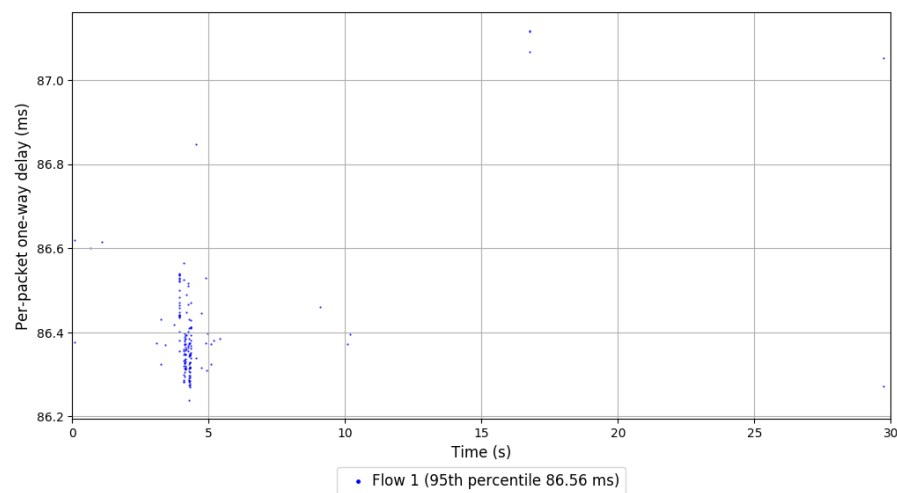
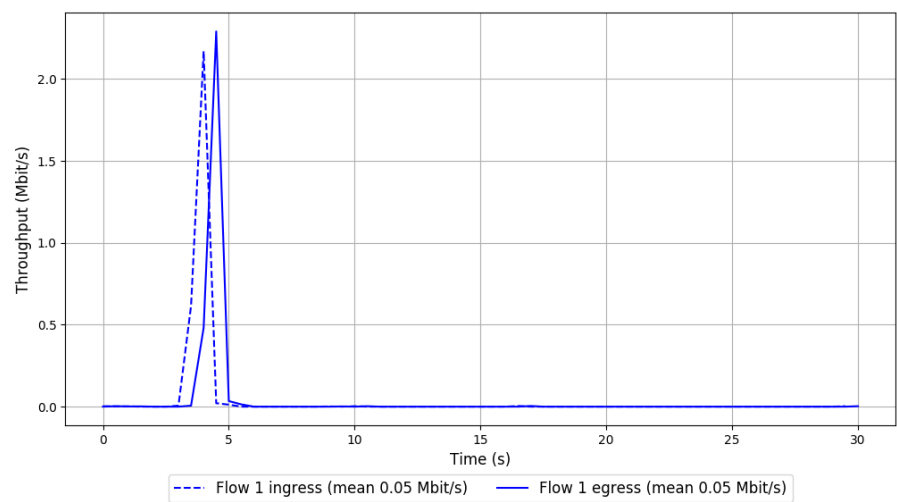
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.564 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-01-17 06:26:17

End at: 2019-01-17 06:26:47

Local clock offset: 0.049 ms

Remote clock offset: 0.18 ms

Below is generated by plot.py at 2019-01-17 09:52:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.623 ms

Loss rate: 0.00%

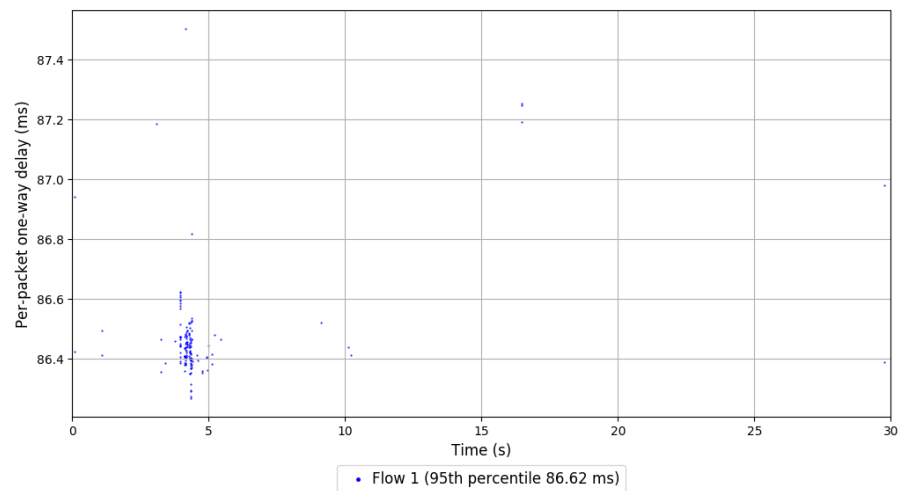
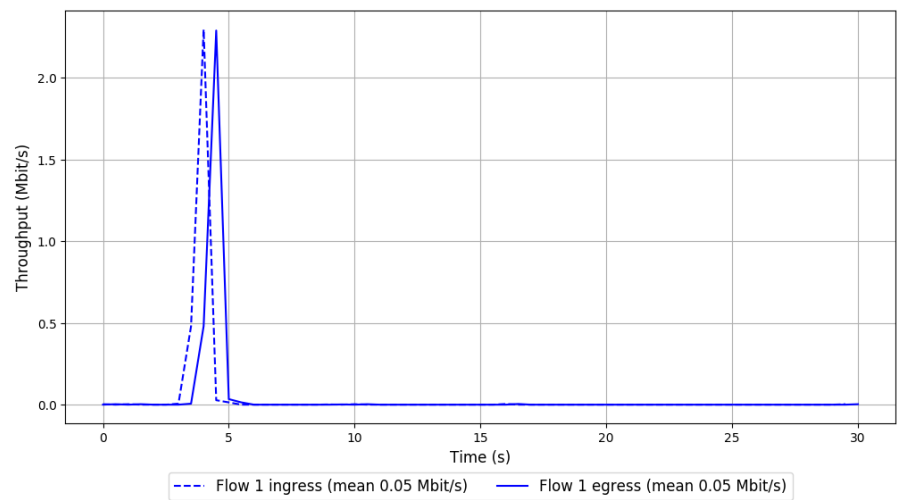
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.623 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-01-17 06:57:57

End at: 2019-01-17 06:58:27

Local clock offset: -0.056 ms

Remote clock offset: 0.094 ms

Below is generated by plot.py at 2019-01-17 09:52:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.208 ms

Loss rate: 0.00%

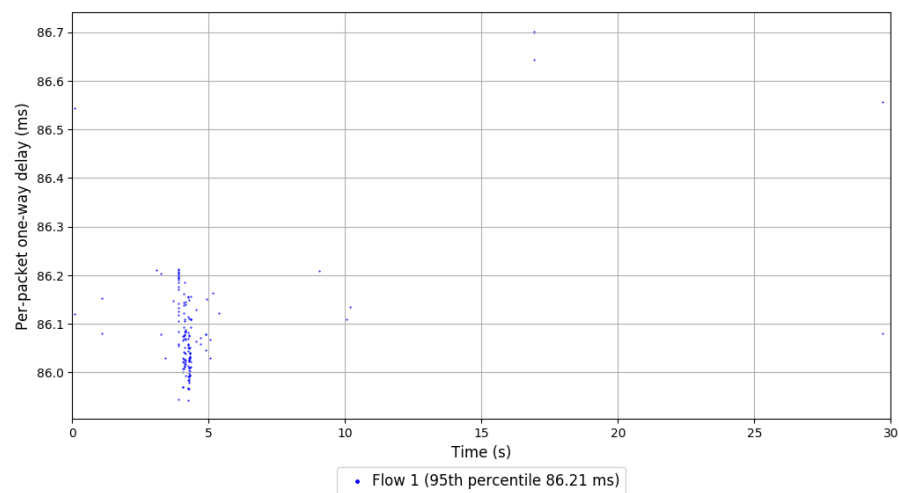
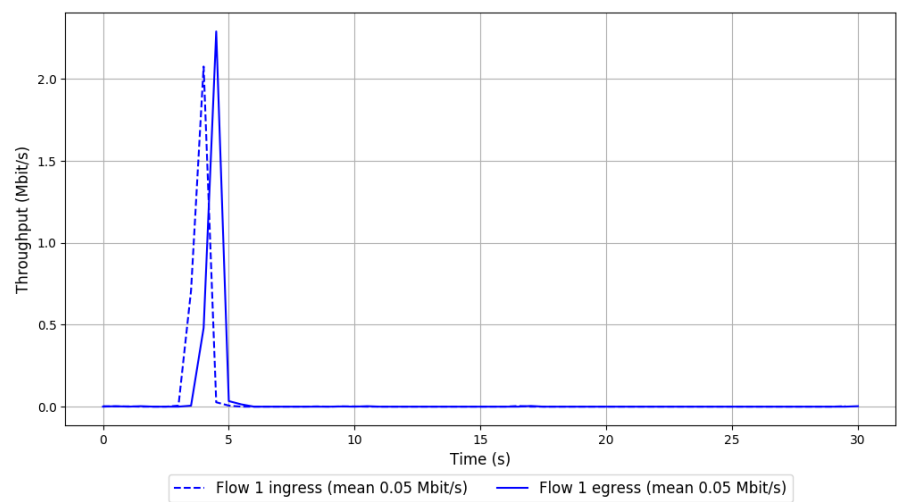
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.208 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-01-17 07:29:19
End at: 2019-01-17 07:29:49
Local clock offset: 0.305 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2019-01-17 09:52:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 85.861 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 85.861 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

