

Pantheon Report

Generated at 2019-03-09 09:54:13 (UTC).

Data path: Colombia on **p4p1** (*remote*) → AWS Brazil 2 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 **gps.ntp.br** and have been applied to correct the timestamps in logs.

System info:

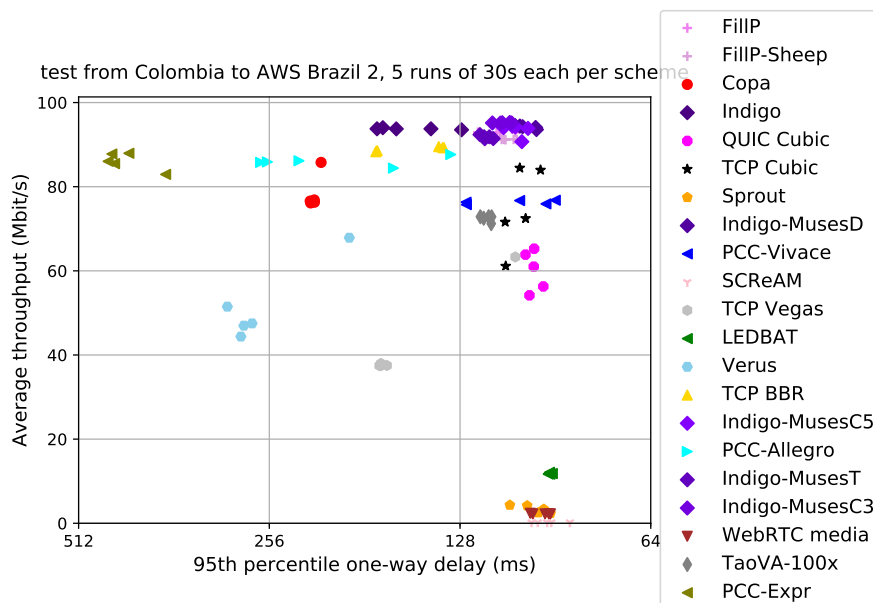
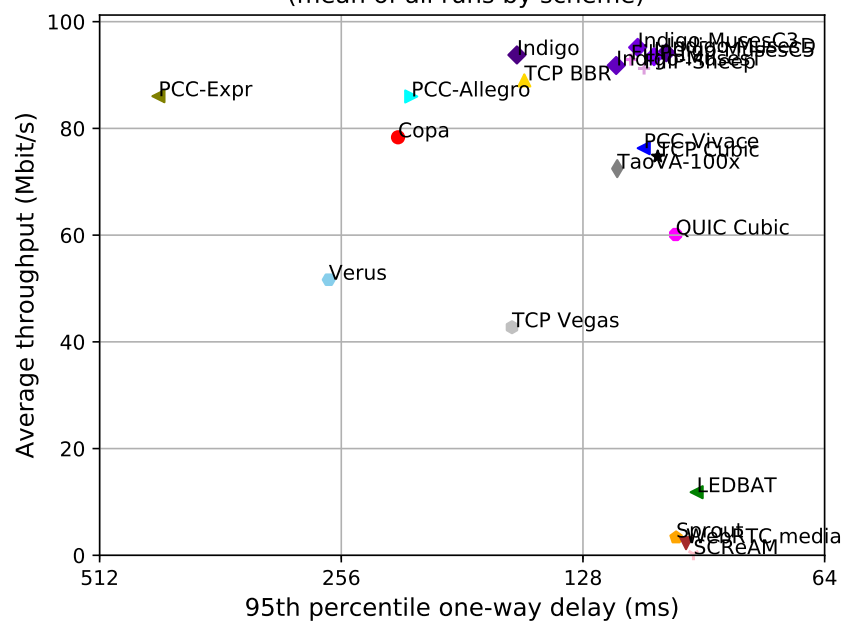
```
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd9c077e64d
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 Colombia to AWS Brazil 2, 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	89.00	151.44	0.84
Copa	5	78.33	217.55	0.83
TCP Cubic	5	74.73	103.30	0.65
FillP	5	92.90	111.60	0.65
FillP-Sheep	5	91.23	107.42	0.70
Indigo	5	93.76	154.70	1.49
Indigo-MusesC3	5	95.18	109.42	6.81
Indigo-MusesC5	5	93.44	104.41	4.52
Indigo-MusesD	5	94.18	100.80	1.46
Indigo-MusesT	5	91.79	116.37	7.47
LEDBAT	5	11.83	92.39	1.16
PCC-Allegro	5	85.98	209.46	0.97
PCC-Expr	5	86.03	432.53	1.52
QUIC Cubic	5	60.12	98.13	0.83
SCReAM	5	0.22	93.24	0.56
Sprout	5	3.35	97.98	0.84
TaoVA-100x	5	72.46	116.02	0.70
TCP Vegas	5	42.74	156.90	0.66
Verus	5	51.64	265.36	1.12
PCC-Vivace	5	76.30	107.53	0.75
WebRTC media	5	2.27	95.24	0.34

Run 1: Statistics of TCP BBR

Start at: 2019-03-09 07:35:42

End at: 2019-03-09 07:36:12

Local clock offset: -6.644 ms

Remote clock offset: 2.531 ms

Below is generated by plot.py at 2019-03-09 09:42:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.31 Mbit/s

95th percentile per-packet one-way delay: 136.286 ms

Loss rate: 0.91%

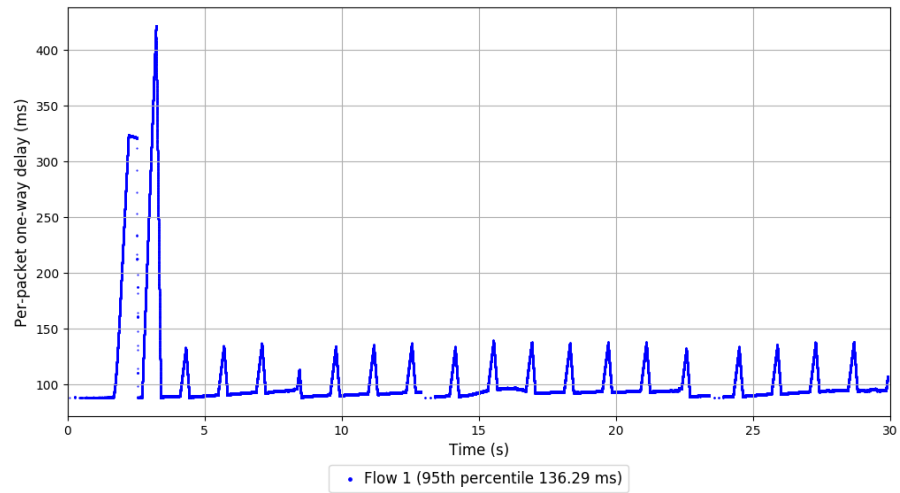
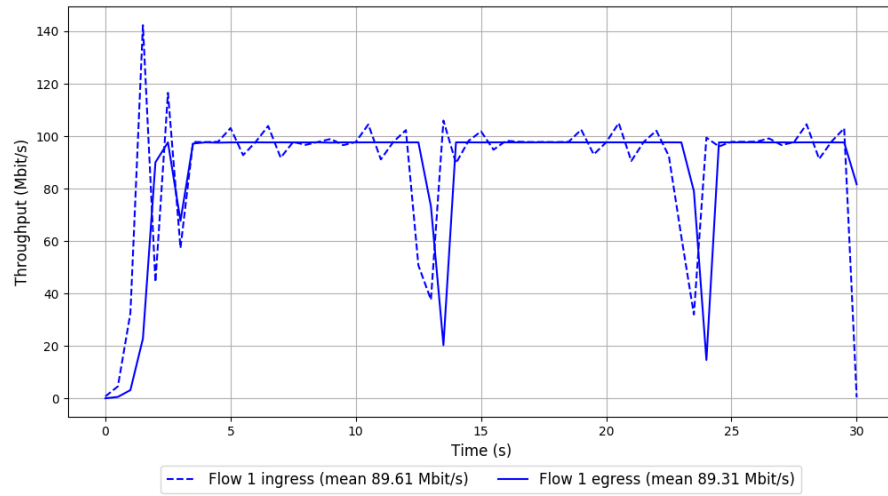
-- Flow 1:

Average throughput: 89.31 Mbit/s

95th percentile per-packet one-way delay: 136.286 ms

Loss rate: 0.91%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-03-09 08:00:40

End at: 2019-03-09 08:01:10

Local clock offset: -2.61 ms

Remote clock offset: 2.389 ms

Below is generated by plot.py at 2019-03-09 09:42:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.32 Mbit/s

95th percentile per-packet one-way delay: 173.833 ms

Loss rate: 0.82%

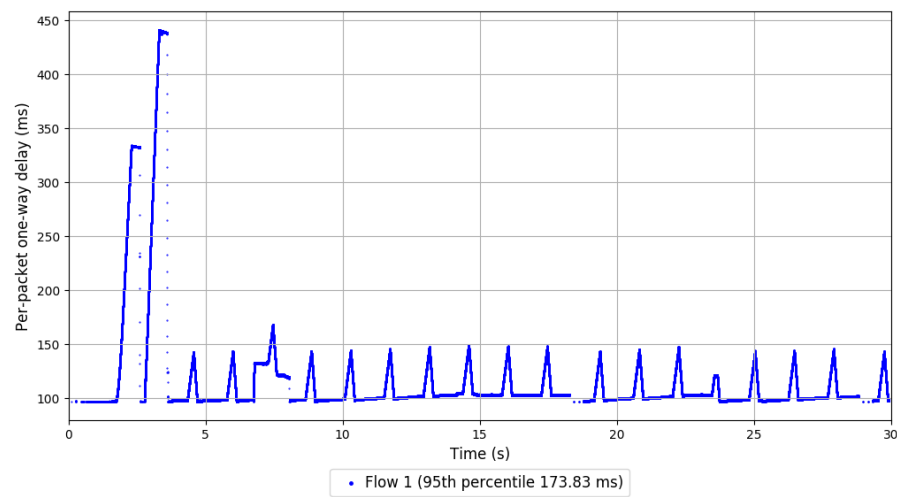
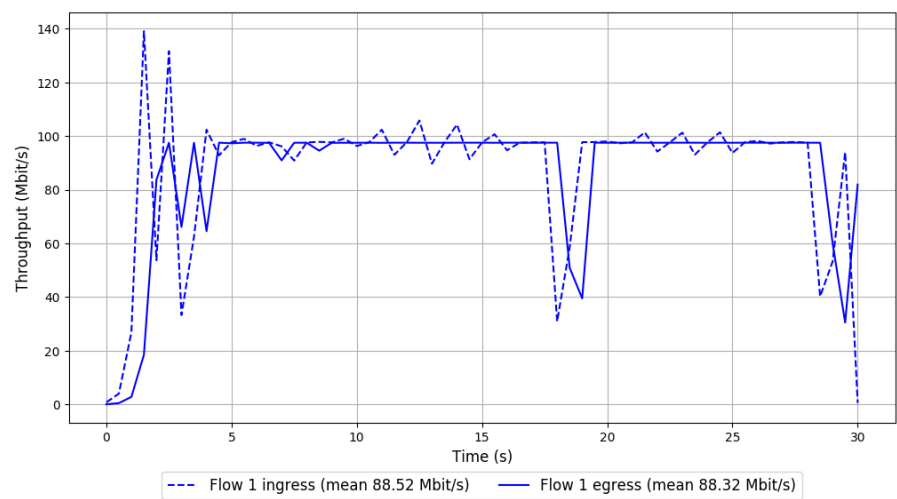
-- Flow 1:

Average throughput: 88.32 Mbit/s

95th percentile per-packet one-way delay: 173.833 ms

Loss rate: 0.82%

Run 2: Report of TCP BBR — Data Link

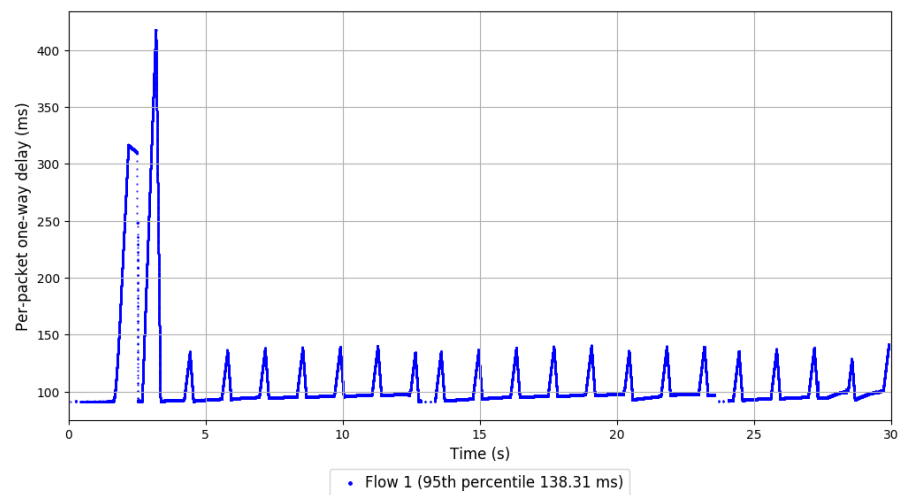
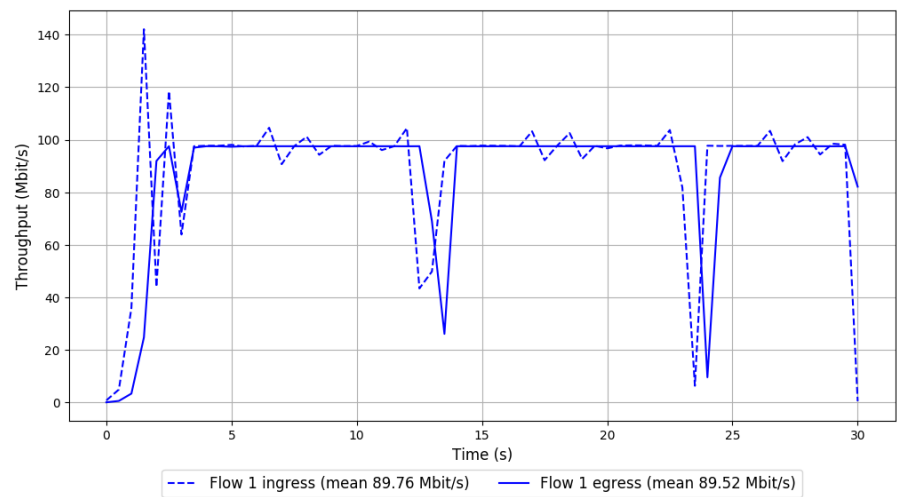


Run 3: Statistics of TCP BBR

Start at: 2019-03-09 08:25:40
End at: 2019-03-09 08:26:10
Local clock offset: -5.183 ms
Remote clock offset: 12.581 ms

Below is generated by plot.py at 2019-03-09 09:42:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.52 Mbit/s
95th percentile per-packet one-way delay: 138.305 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 89.52 Mbit/s
95th percentile per-packet one-way delay: 138.305 ms
Loss rate: 0.83%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-03-09 08:50:39

End at: 2019-03-09 08:51:09

Local clock offset: -6.826 ms

Remote clock offset: 9.402 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.57 Mbit/s

95th percentile per-packet one-way delay: 172.995 ms

Loss rate: 0.77%

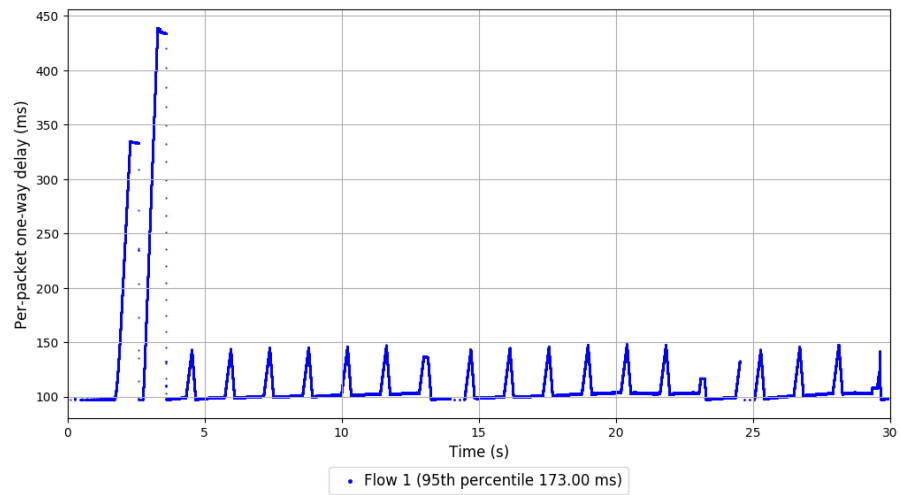
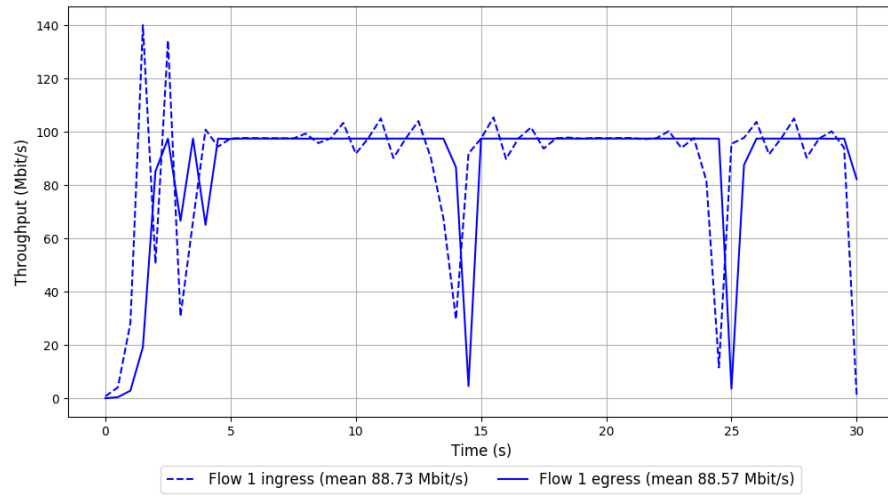
-- Flow 1:

Average throughput: 88.57 Mbit/s

95th percentile per-packet one-way delay: 172.995 ms

Loss rate: 0.77%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-03-09 09:15:37

End at: 2019-03-09 09:16:07

Local clock offset: -7.424 ms

Remote clock offset: 4.285 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.27 Mbit/s

95th percentile per-packet one-way delay: 135.784 ms

Loss rate: 0.85%

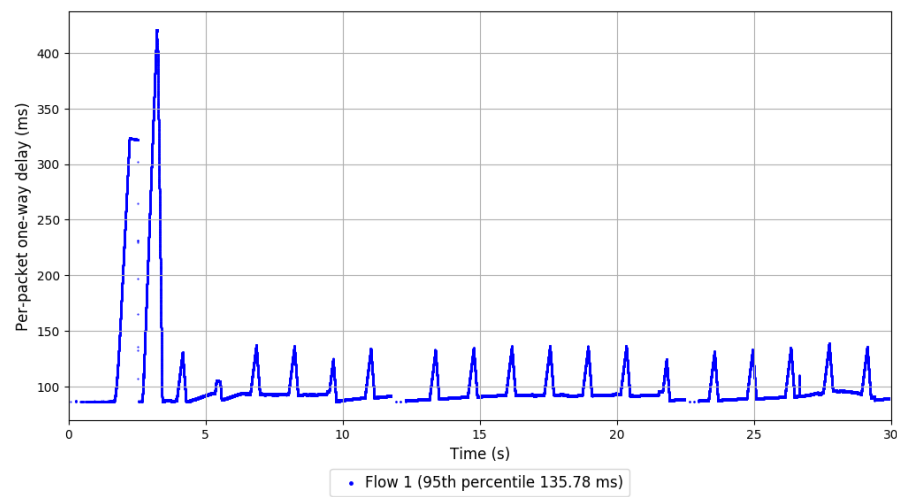
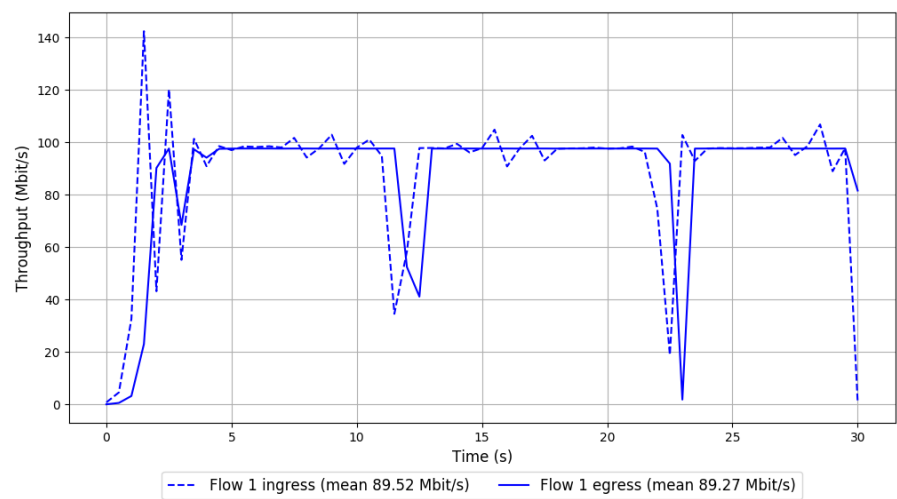
-- Flow 1:

Average throughput: 89.27 Mbit/s

95th percentile per-packet one-way delay: 135.784 ms

Loss rate: 0.85%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-03-09 07:58:17

End at: 2019-03-09 07:58:47

Local clock offset: -2.156 ms

Remote clock offset: 1.044 ms

Below is generated by plot.py at 2019-03-09 09:43:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.15 Mbit/s

95th percentile per-packet one-way delay: 220.299 ms

Loss rate: 0.81%

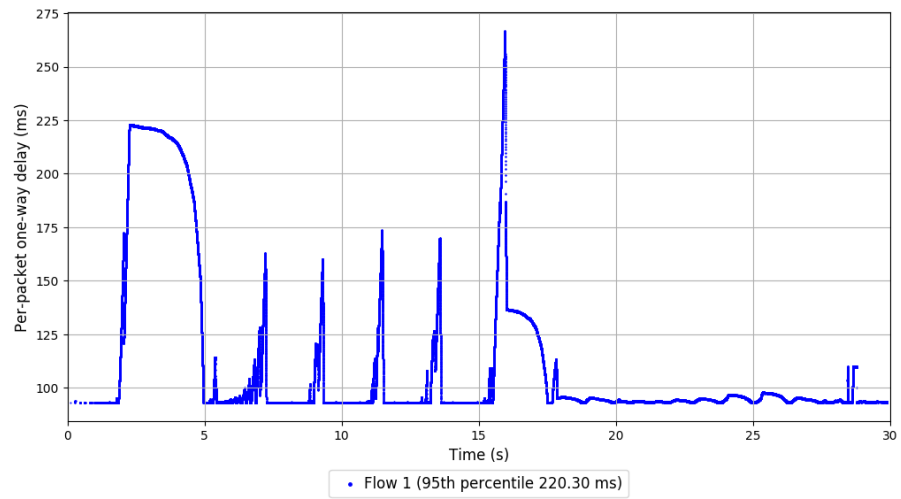
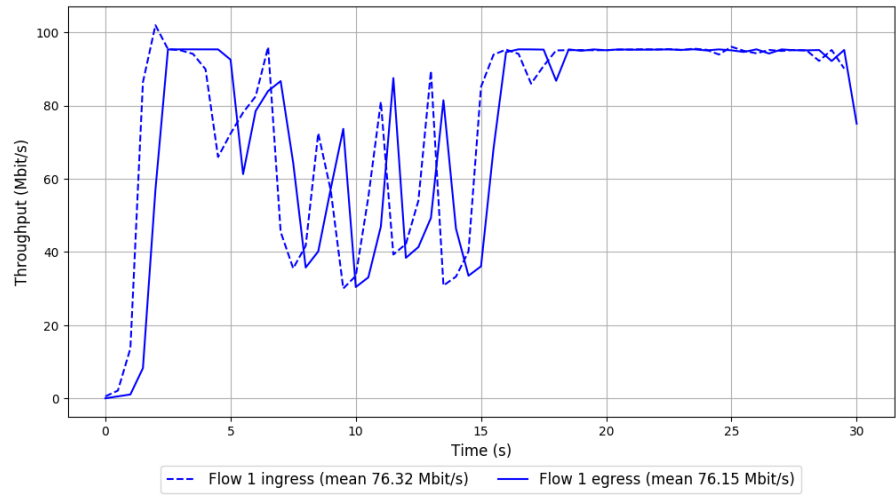
-- Flow 1:

Average throughput: 76.15 Mbit/s

95th percentile per-packet one-way delay: 220.299 ms

Loss rate: 0.81%

Run 1: Report of Copa — Data Link

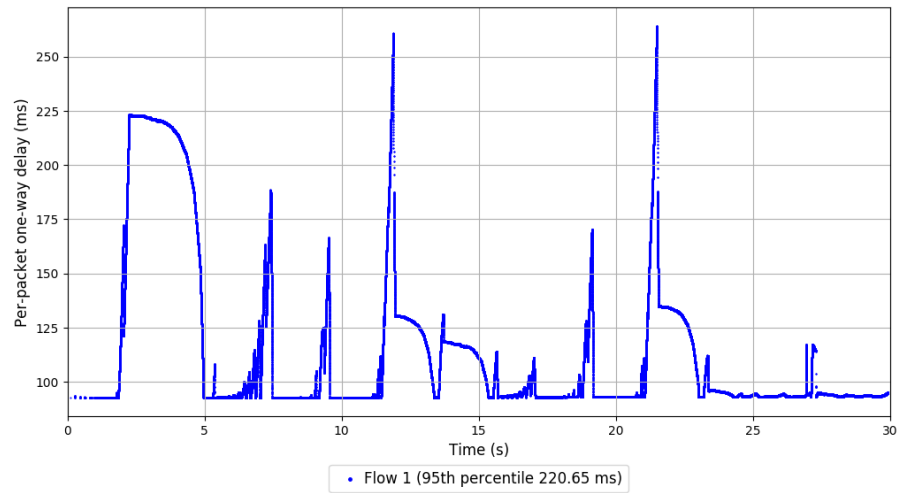
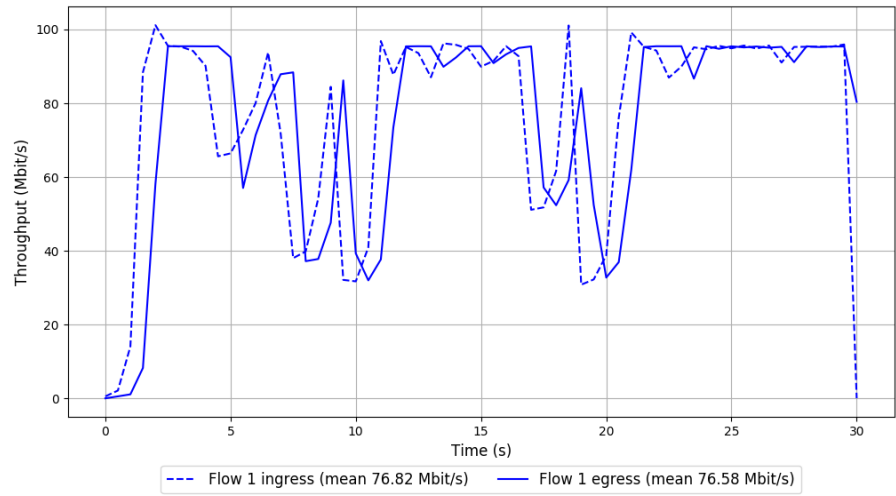


Run 2: Statistics of Copa

Start at: 2019-03-09 08:23:17
End at: 2019-03-09 08:23:47
Local clock offset: -4.575 ms
Remote clock offset: 10.382 ms

Below is generated by plot.py at 2019-03-09 09:43:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.58 Mbit/s
95th percentile per-packet one-way delay: 220.649 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 76.58 Mbit/s
95th percentile per-packet one-way delay: 220.649 ms
Loss rate: 0.89%

Run 2: Report of Copa — Data Link

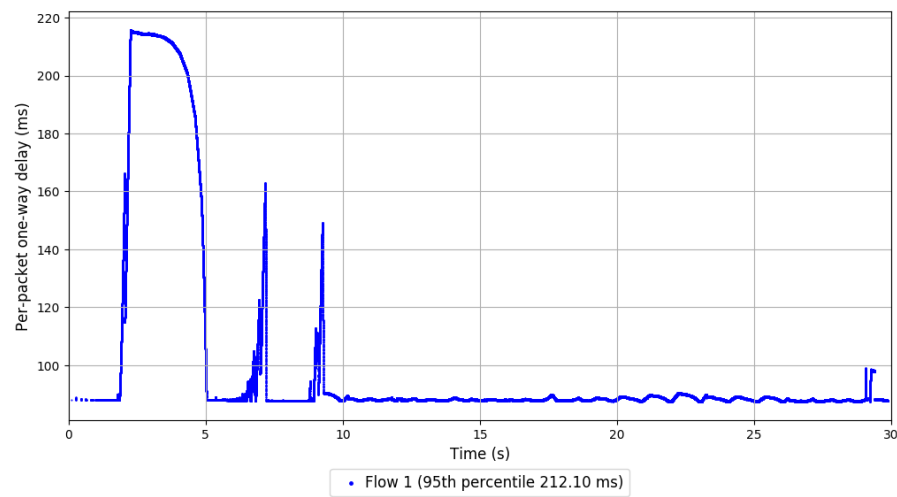
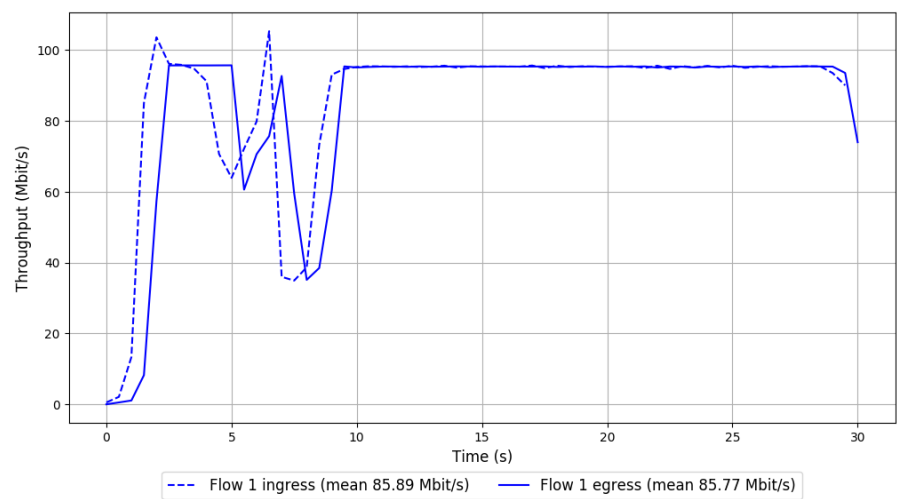


Run 3: Statistics of Copa

Start at: 2019-03-09 08:48:15
End at: 2019-03-09 08:48:45
Local clock offset: -6.894 ms
Remote clock offset: 15.874 ms

Below is generated by plot.py at 2019-03-09 09:43:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.77 Mbit/s
95th percentile per-packet one-way delay: 212.099 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 85.77 Mbit/s
95th percentile per-packet one-way delay: 212.099 ms
Loss rate: 0.71%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-03-09 09:13:14

End at: 2019-03-09 09:13:44

Local clock offset: -6.916 ms

Remote clock offset: 0.654 ms

Below is generated by plot.py at 2019-03-09 09:44:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.85 Mbit/s

95th percentile per-packet one-way delay: 217.430 ms

Loss rate: 0.92%

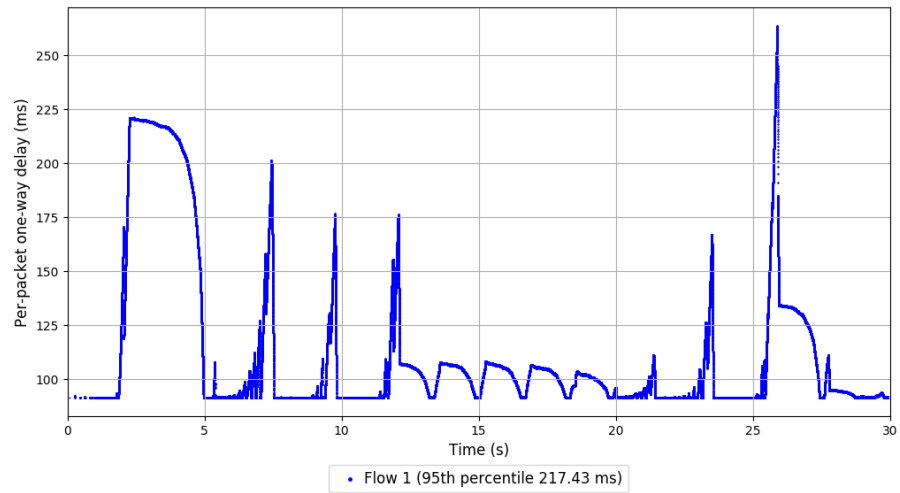
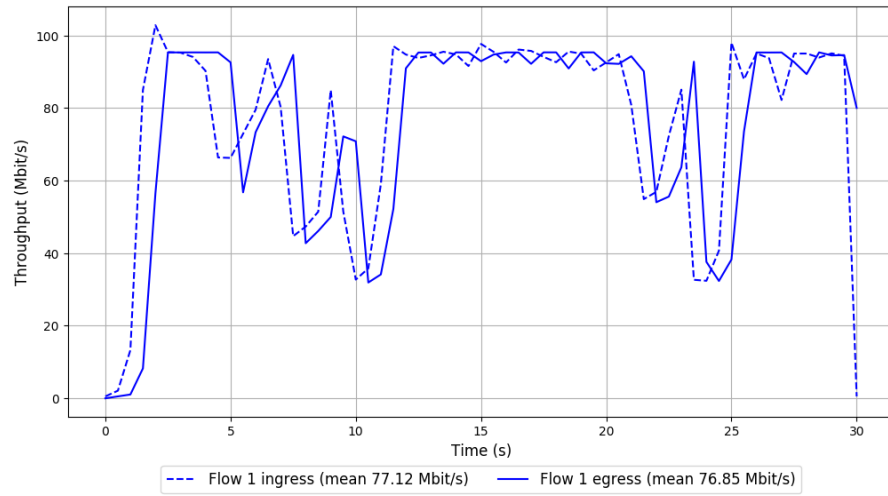
-- Flow 1:

Average throughput: 76.85 Mbit/s

95th percentile per-packet one-way delay: 217.430 ms

Loss rate: 0.92%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-03-09 09:38:12

End at: 2019-03-09 09:38:42

Local clock offset: -5.831 ms

Remote clock offset: 0.91 ms

Below is generated by plot.py at 2019-03-09 09:44:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.31 Mbit/s

95th percentile per-packet one-way delay: 217.286 ms

Loss rate: 0.81%

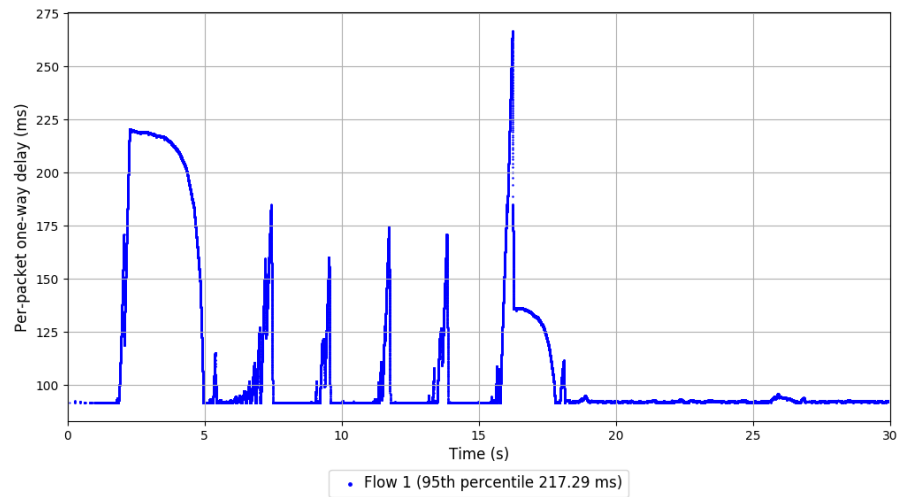
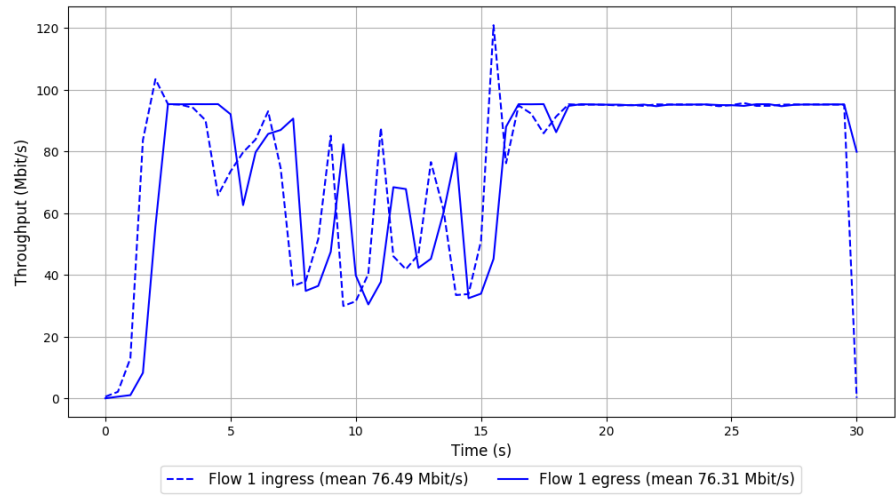
-- Flow 1:

Average throughput: 76.31 Mbit/s

95th percentile per-packet one-way delay: 217.286 ms

Loss rate: 0.81%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-03-09 07:42:49

End at: 2019-03-09 07:43:19

Local clock offset: -7.392 ms

Remote clock offset: 0.689 ms

Below is generated by plot.py at 2019-03-09 09:44:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.14 Mbit/s

95th percentile per-packet one-way delay: 108.433 ms

Loss rate: 0.61%

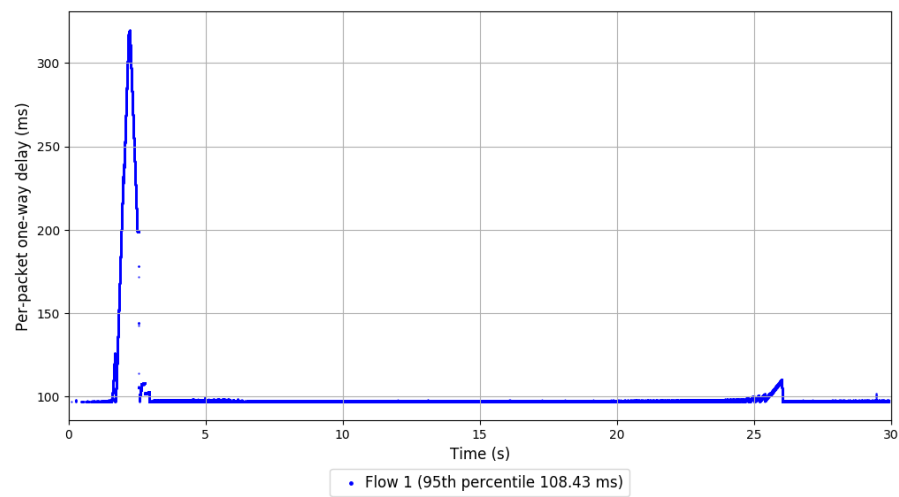
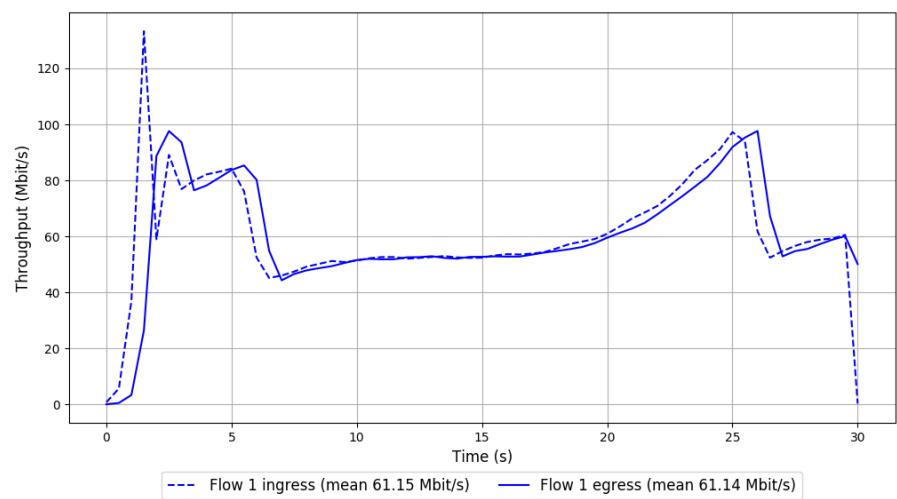
-- Flow 1:

Average throughput: 61.14 Mbit/s

95th percentile per-packet one-way delay: 108.433 ms

Loss rate: 0.61%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-03-09 08:07:47

End at: 2019-03-09 08:08:17

Local clock offset: -1.759 ms

Remote clock offset: 6.324 ms

Below is generated by plot.py at 2019-03-09 09:44:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.46 Mbit/s

95th percentile per-packet one-way delay: 100.859 ms

Loss rate: 0.61%

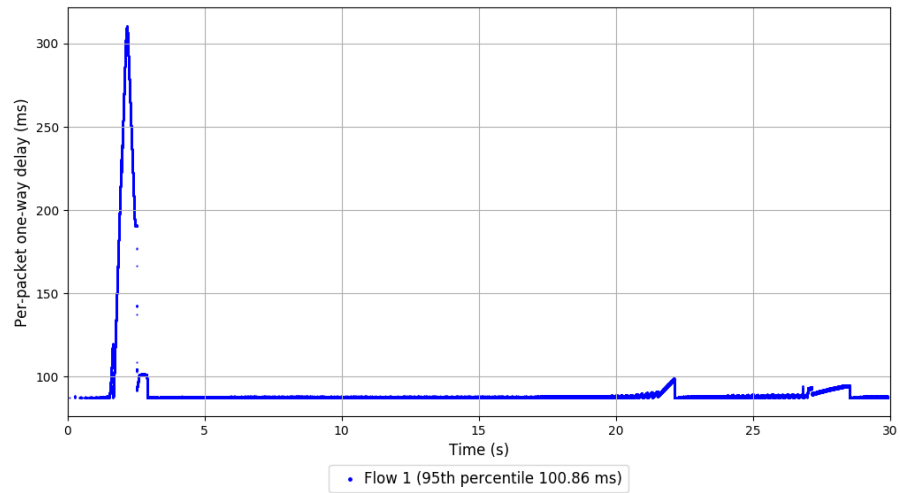
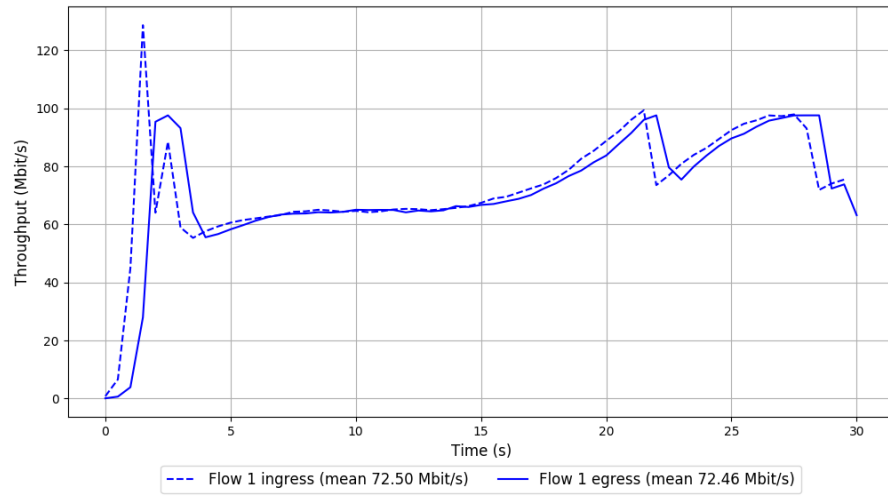
-- Flow 1:

Average throughput: 72.46 Mbit/s

95th percentile per-packet one-way delay: 100.859 ms

Loss rate: 0.61%

Run 2: Report of TCP Cubic — Data Link

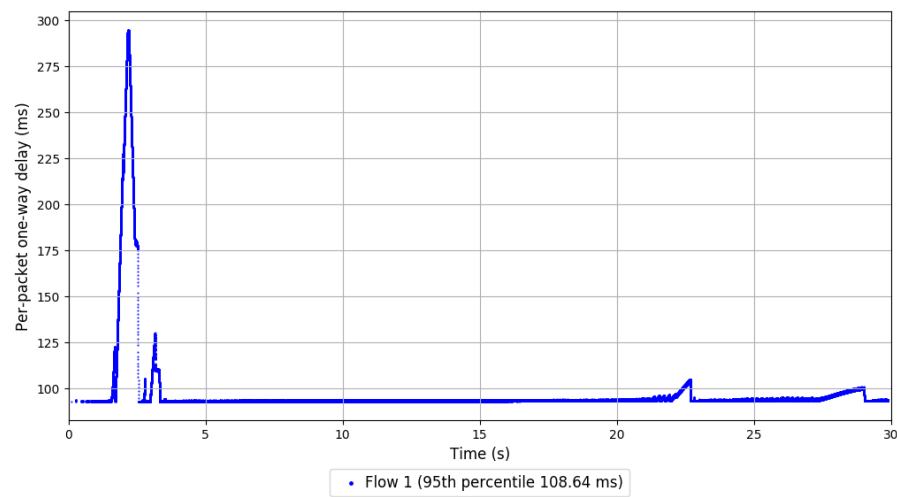
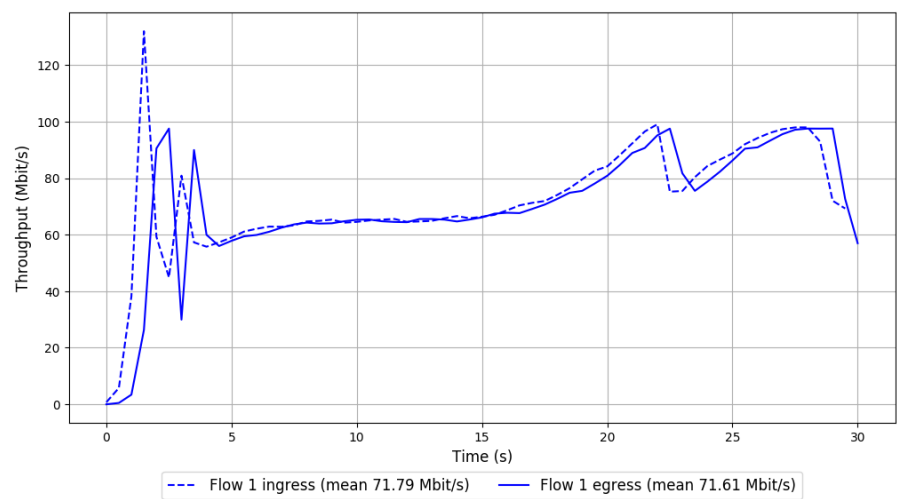


Run 3: Statistics of TCP Cubic

Start at: 2019-03-09 08:32:47
End at: 2019-03-09 08:33:17
Local clock offset: -7.08 ms
Remote clock offset: 18.553 ms

Below is generated by plot.py at 2019-03-09 09:44:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 71.61 Mbit/s
95th percentile per-packet one-way delay: 108.637 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 71.61 Mbit/s
95th percentile per-packet one-way delay: 108.637 ms
Loss rate: 0.84%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-03-09 08:57:46

End at: 2019-03-09 08:58:16

Local clock offset: -6.758 ms

Remote clock offset: 6.761 ms

Below is generated by plot.py at 2019-03-09 09:44:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.46 Mbit/s

95th percentile per-packet one-way delay: 103.024 ms

Loss rate: 0.60%

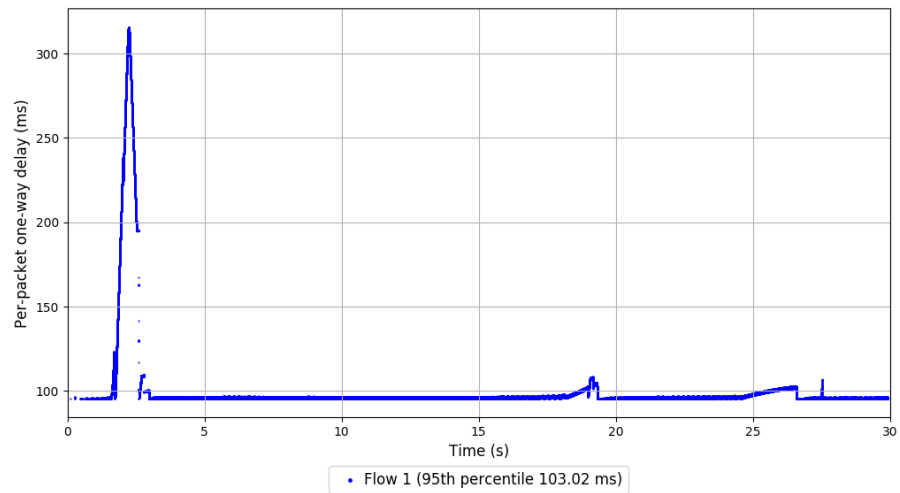
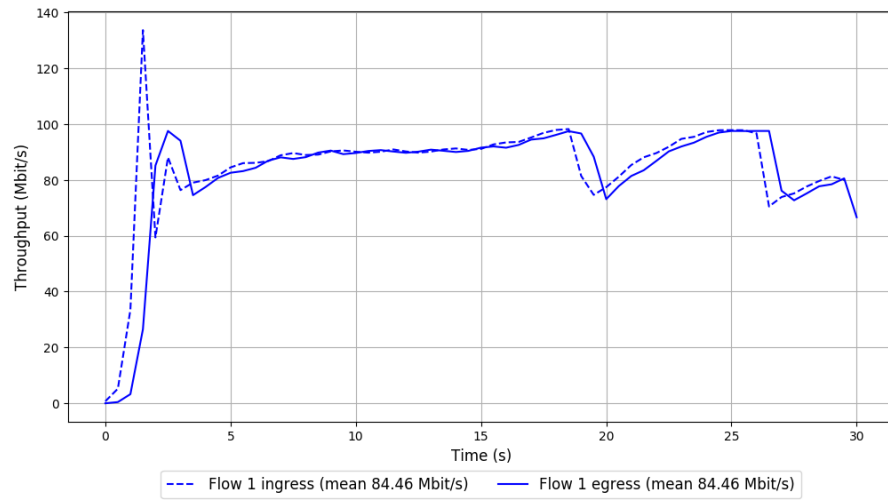
-- Flow 1:

Average throughput: 84.46 Mbit/s

95th percentile per-packet one-way delay: 103.024 ms

Loss rate: 0.60%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-03-09 09:22:43

End at: 2019-03-09 09:23:13

Local clock offset: -6.565 ms

Remote clock offset: 3.657 ms

Below is generated by plot.py at 2019-03-09 09:44:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.97 Mbit/s

95th percentile per-packet one-way delay: 95.534 ms

Loss rate: 0.59%

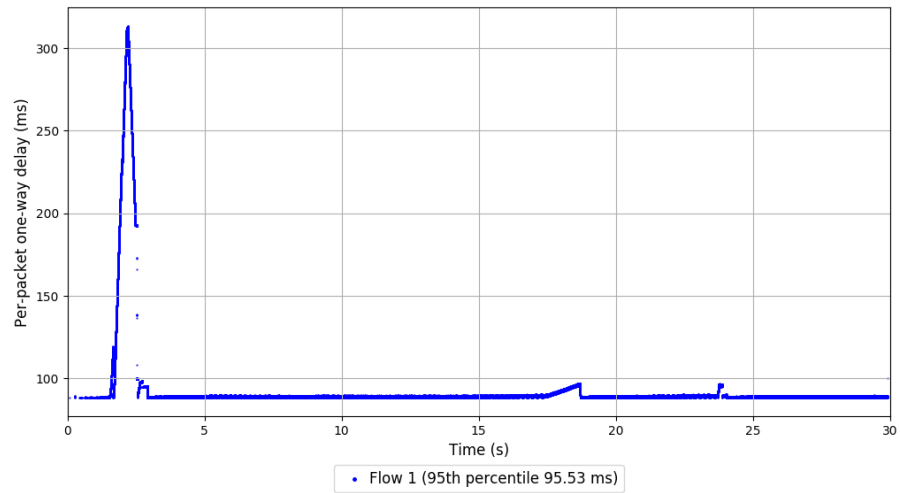
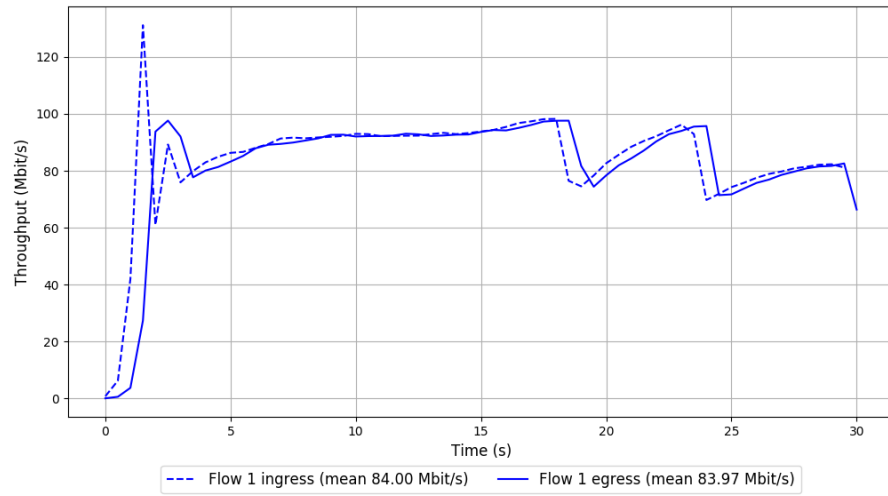
-- Flow 1:

Average throughput: 83.97 Mbit/s

95th percentile per-packet one-way delay: 95.534 ms

Loss rate: 0.59%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-03-09 07:52:23

End at: 2019-03-09 07:52:53

Local clock offset: -3.459 ms

Remote clock offset: 1.92 ms

Below is generated by plot.py at 2019-03-09 09:44:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.94 Mbit/s

95th percentile per-packet one-way delay: 119.950 ms

Loss rate: 0.60%

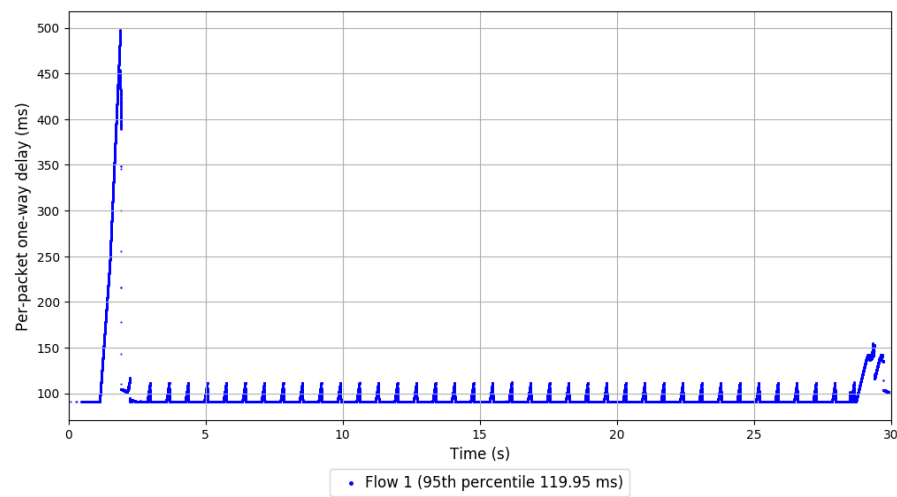
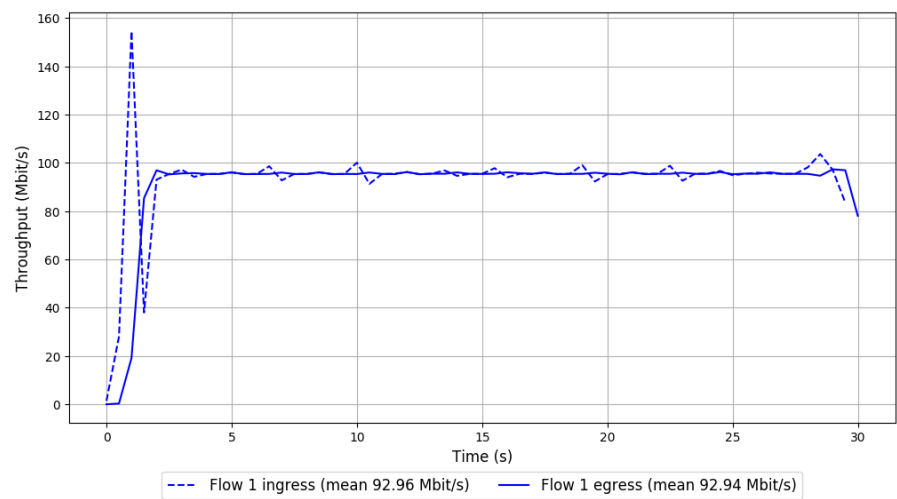
-- Flow 1:

Average throughput: 92.94 Mbit/s

95th percentile per-packet one-way delay: 119.950 ms

Loss rate: 0.60%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-03-09 08:17:23

End at: 2019-03-09 08:17:53

Local clock offset: -3.126 ms

Remote clock offset: 8.371 ms

Below is generated by plot.py at 2019-03-09 09:44:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.91 Mbit/s

95th percentile per-packet one-way delay: 110.805 ms

Loss rate: 0.76%

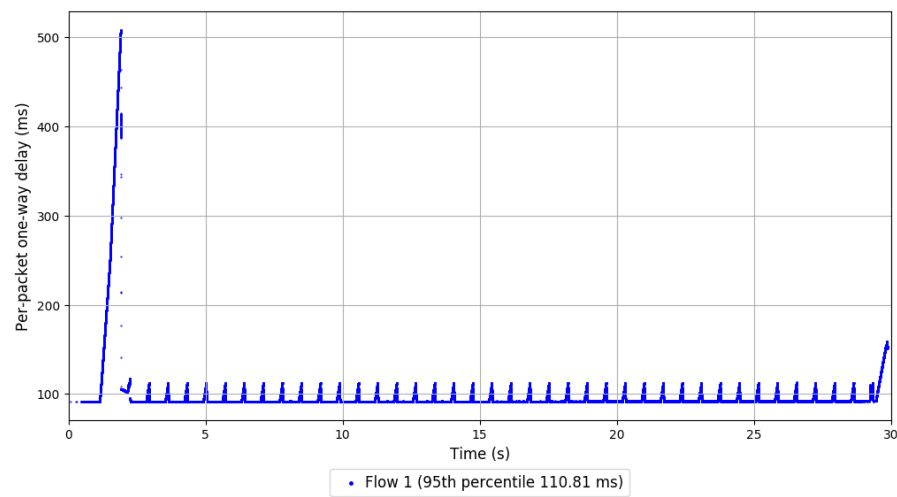
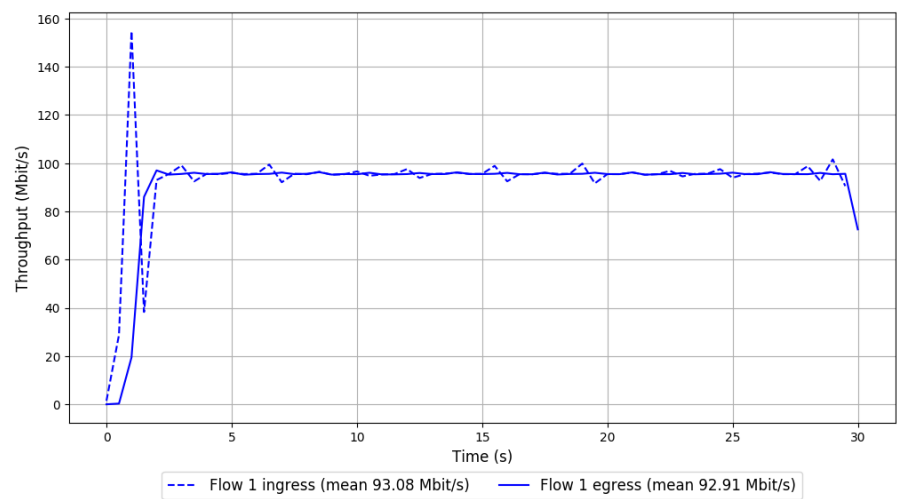
-- Flow 1:

Average throughput: 92.91 Mbit/s

95th percentile per-packet one-way delay: 110.805 ms

Loss rate: 0.76%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-03-09 08:42:22

End at: 2019-03-09 08:42:52

Local clock offset: -6.993 ms

Remote clock offset: 20.82 ms

Below is generated by plot.py at 2019-03-09 09:44:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.80 Mbit/s

95th percentile per-packet one-way delay: 112.086 ms

Loss rate: 0.65%

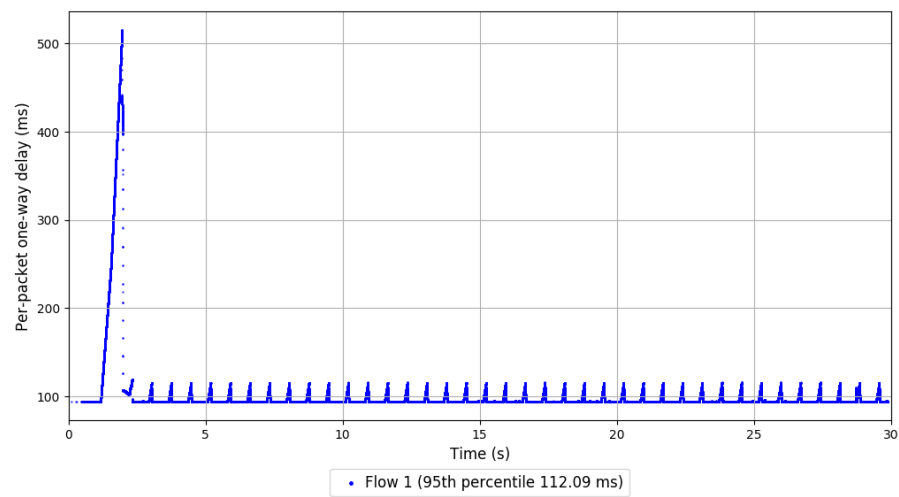
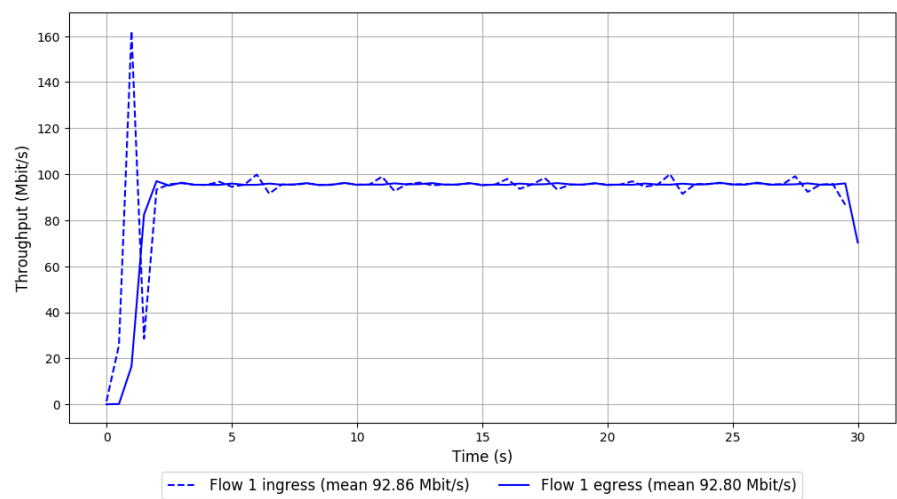
-- Flow 1:

Average throughput: 92.80 Mbit/s

95th percentile per-packet one-way delay: 112.086 ms

Loss rate: 0.65%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-03-09 09:07:21

End at: 2019-03-09 09:07:51

Local clock offset: -6.821 ms

Remote clock offset: 0.168 ms

Below is generated by plot.py at 2019-03-09 09:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.94 Mbit/s

95th percentile per-packet one-way delay: 110.519 ms

Loss rate: 0.61%

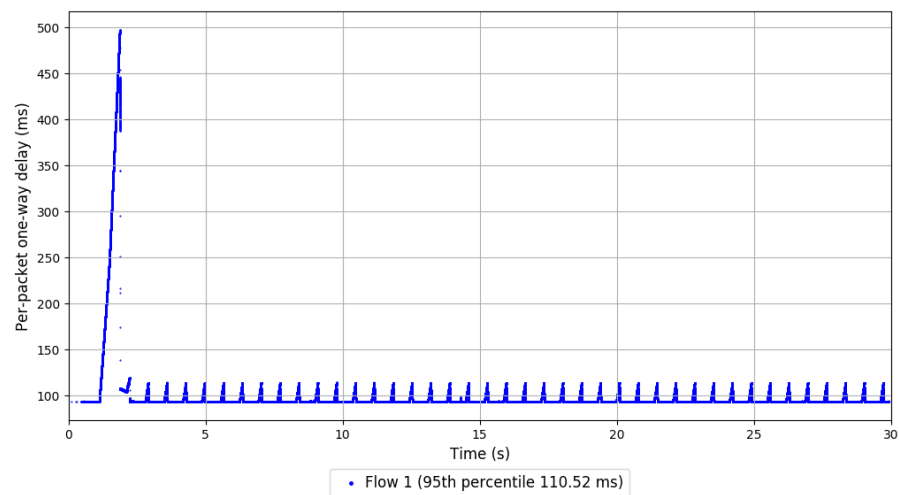
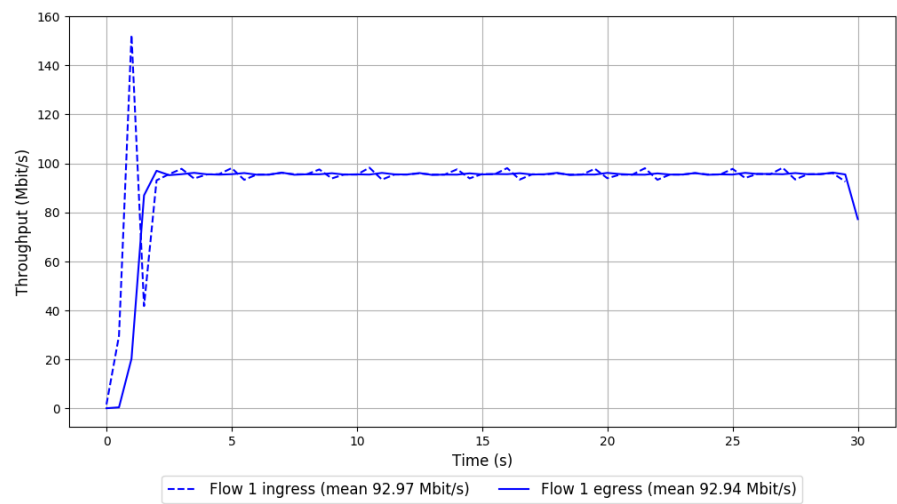
-- Flow 1:

Average throughput: 92.94 Mbit/s

95th percentile per-packet one-way delay: 110.519 ms

Loss rate: 0.61%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-03-09 09:32:19

End at: 2019-03-09 09:32:49

Local clock offset: -5.228 ms

Remote clock offset: 6.519 ms

Below is generated by plot.py at 2019-03-09 09:45:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.91 Mbit/s

95th percentile per-packet one-way delay: 104.629 ms

Loss rate: 0.61%

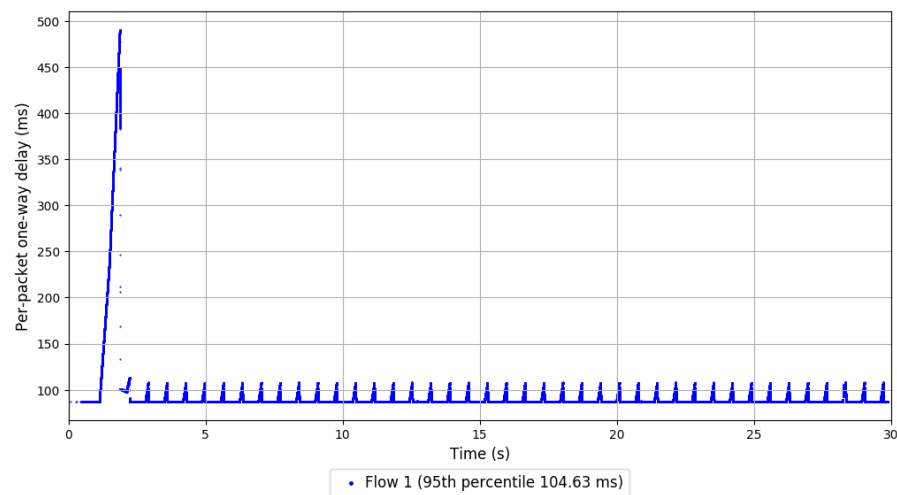
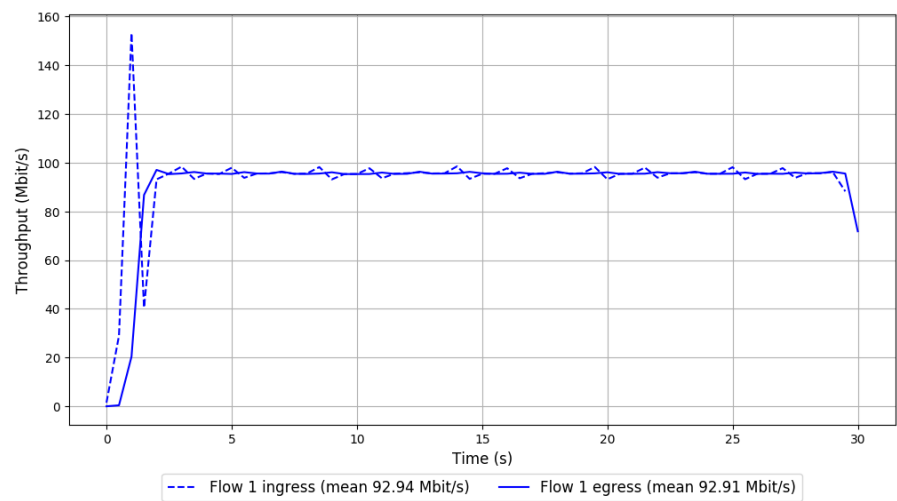
-- Flow 1:

Average throughput: 92.91 Mbit/s

95th percentile per-packet one-way delay: 104.629 ms

Loss rate: 0.61%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-03-09 07:55:58

End at: 2019-03-09 07:56:28

Local clock offset: -3.325 ms

Remote clock offset: 2.085 ms

Below is generated by plot.py at 2019-03-09 09:45:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.25 Mbit/s

95th percentile per-packet one-way delay: 110.028 ms

Loss rate: 1.03%

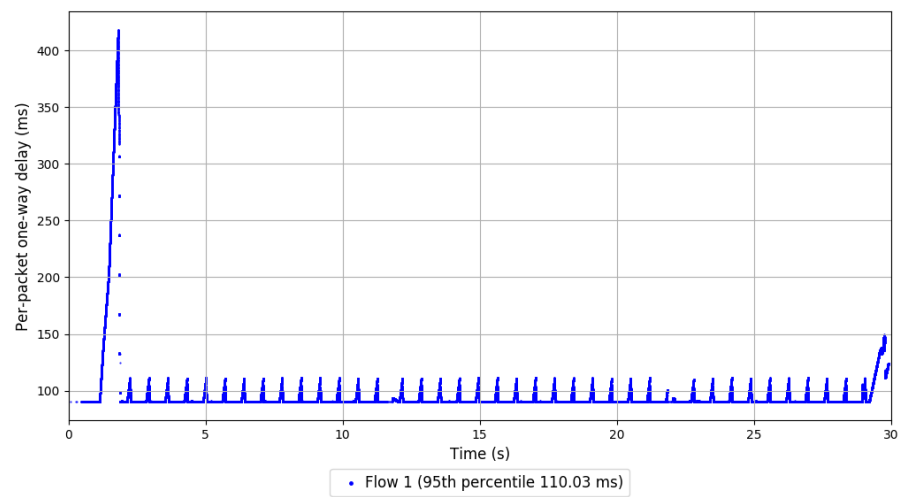
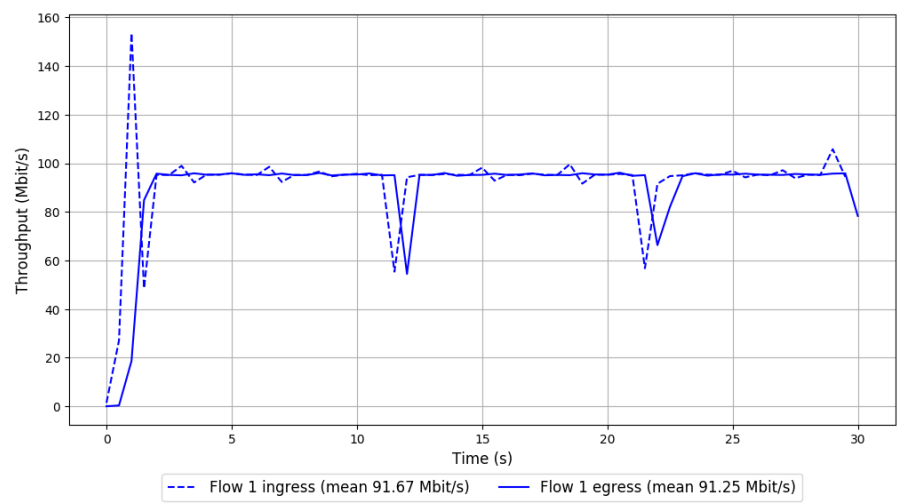
-- Flow 1:

Average throughput: 91.25 Mbit/s

95th percentile per-packet one-way delay: 110.028 ms

Loss rate: 1.03%

Run 1: Report of FillP-Sheep — Data Link

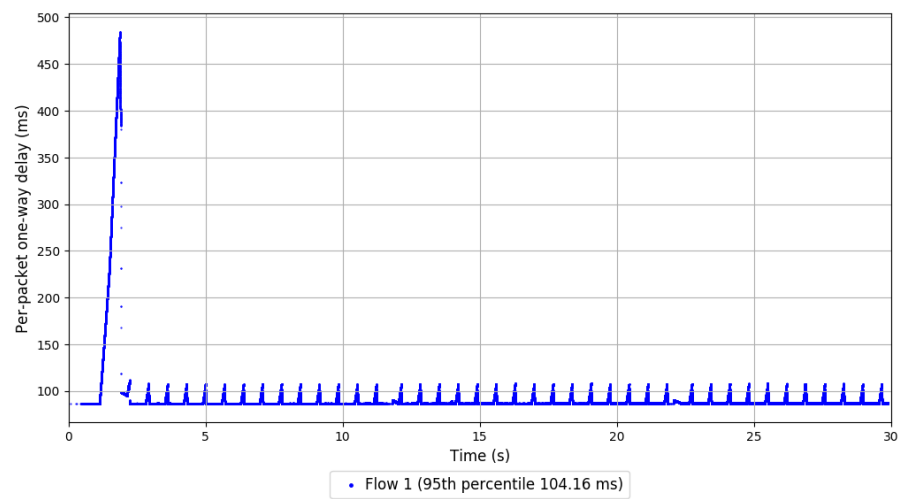
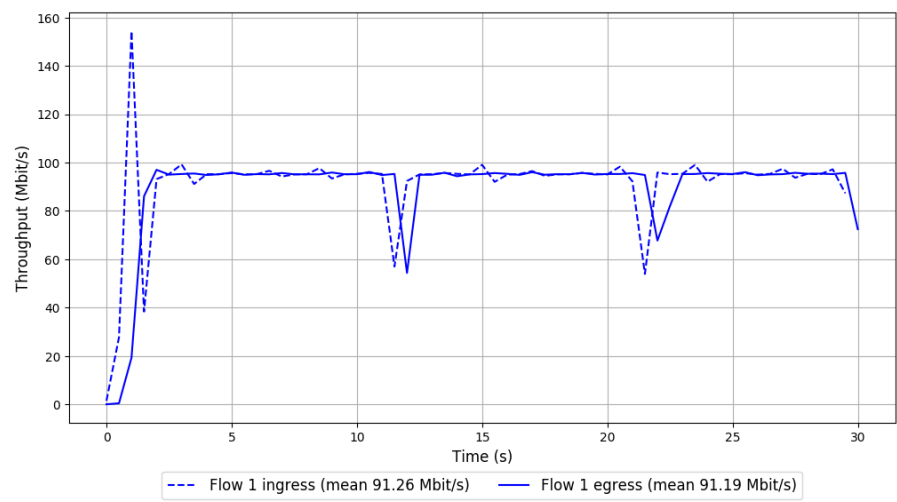


Run 2: Statistics of FillP-Sheep

Start at: 2019-03-09 08:20:58
End at: 2019-03-09 08:21:28
Local clock offset: -3.831 ms
Remote clock offset: 15.651 ms

Below is generated by plot.py at 2019-03-09 09:45:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.19 Mbit/s
95th percentile per-packet one-way delay: 104.159 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 91.19 Mbit/s
95th percentile per-packet one-way delay: 104.159 ms
Loss rate: 0.64%

Run 2: Report of FillP-Sheep — Data Link

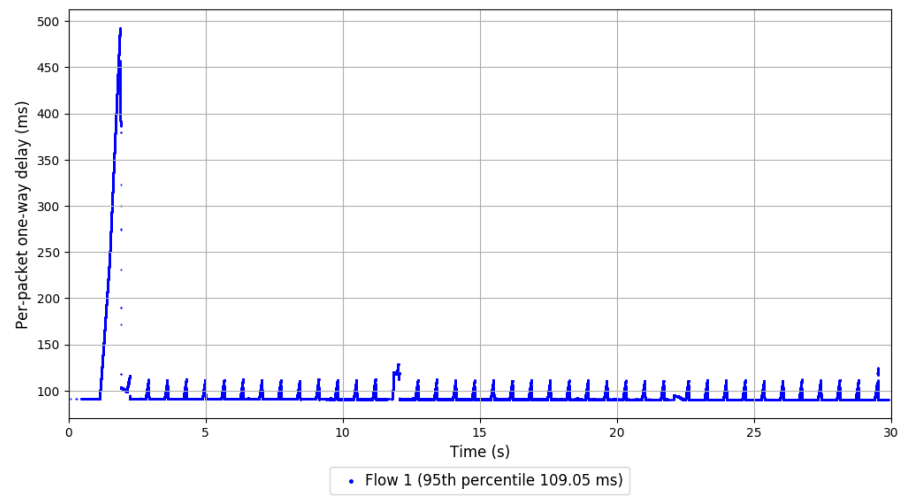
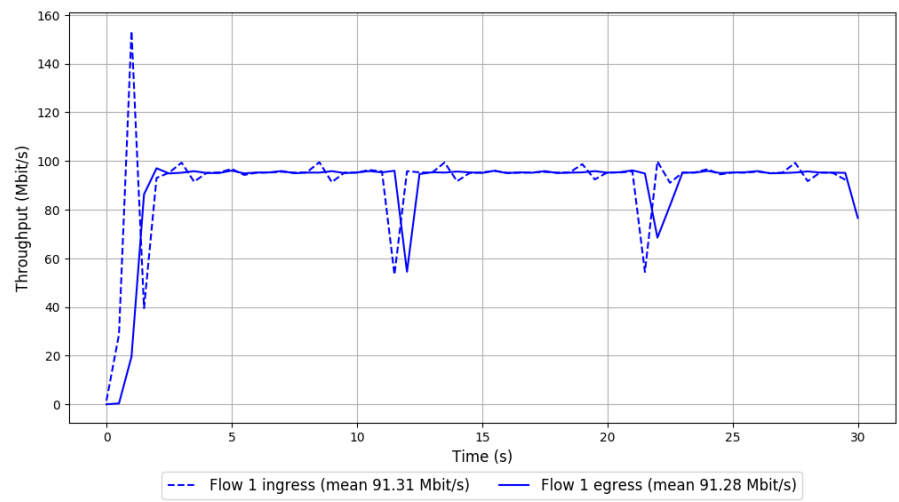


Run 3: Statistics of FillP-Sheep

Start at: 2019-03-09 08:45:56
End at: 2019-03-09 08:46:26
Local clock offset: -7.763 ms
Remote clock offset: 15.516 ms

Below is generated by plot.py at 2019-03-09 09:45:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.28 Mbit/s
95th percentile per-packet one-way delay: 109.054 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 91.28 Mbit/s
95th percentile per-packet one-way delay: 109.054 ms
Loss rate: 0.62%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-03-09 09:10:55

End at: 2019-03-09 09:11:25

Local clock offset: -7.648 ms

Remote clock offset: 3.751 ms

Below is generated by plot.py at 2019-03-09 09:46:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.17 Mbit/s

95th percentile per-packet one-way delay: 108.503 ms

Loss rate: 0.61%

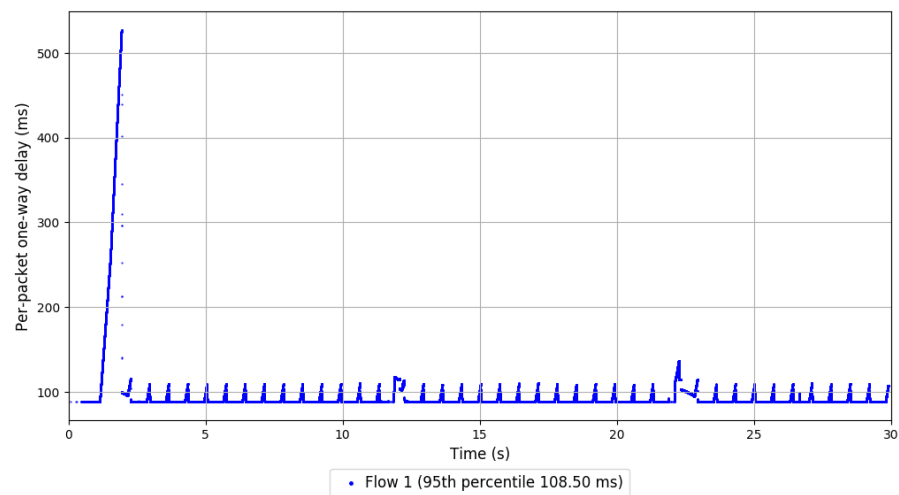
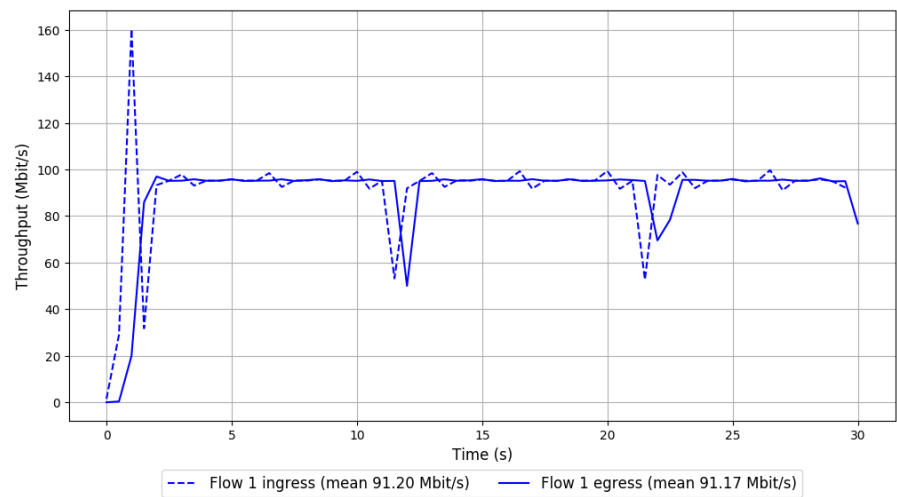
-- Flow 1:

Average throughput: 91.17 Mbit/s

95th percentile per-packet one-way delay: 108.503 ms

Loss rate: 0.61%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-03-09 09:35:53

End at: 2019-03-09 09:36:23

Local clock offset: -5.181 ms

Remote clock offset: 6.021 ms

Below is generated by plot.py at 2019-03-09 09:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.27 Mbit/s

95th percentile per-packet one-way delay: 105.338 ms

Loss rate: 0.62%

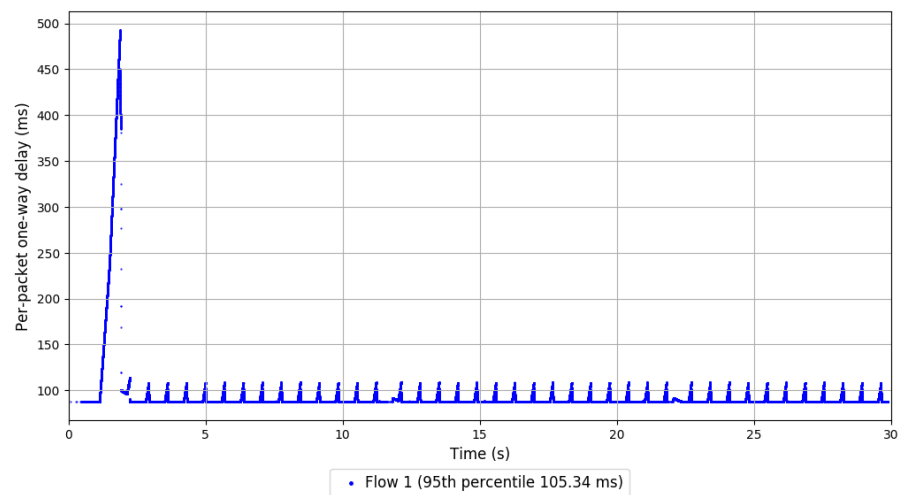
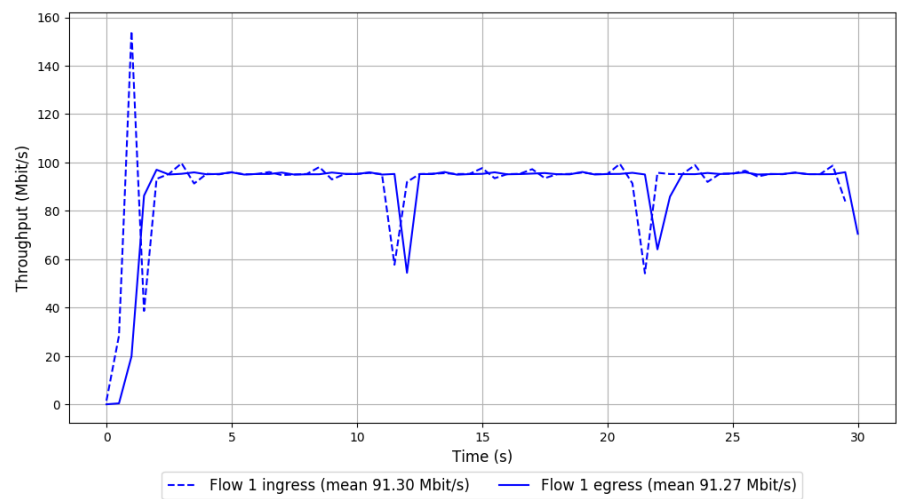
-- Flow 1:

Average throughput: 91.27 Mbit/s

95th percentile per-packet one-way delay: 105.338 ms

Loss rate: 0.62%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-03-09 07:48:50

End at: 2019-03-09 07:49:20

Local clock offset: -5.293 ms

Remote clock offset: 1.433 ms

Below is generated by plot.py at 2019-03-09 09:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.74 Mbit/s

95th percentile per-packet one-way delay: 161.380 ms

Loss rate: 1.37%

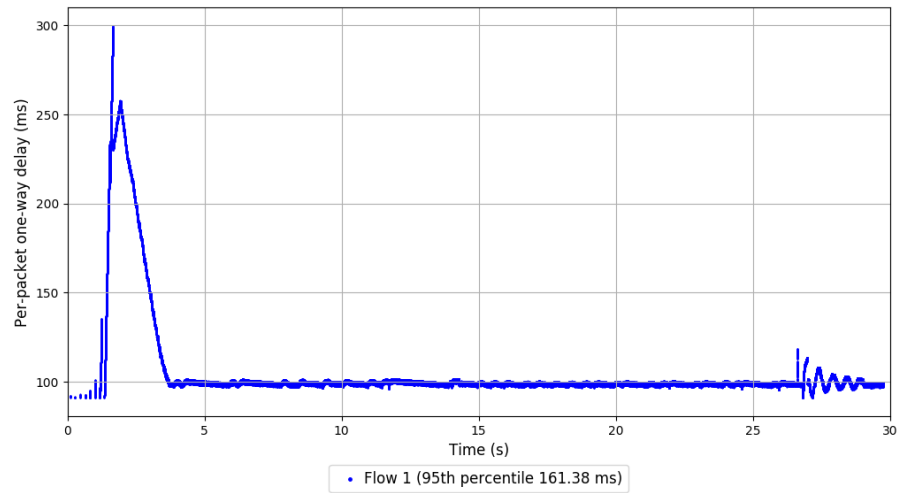
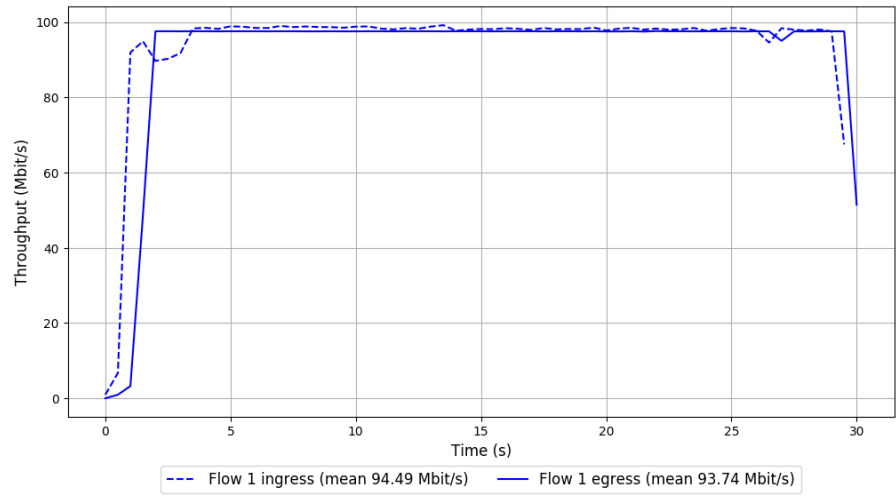
-- Flow 1:

Average throughput: 93.74 Mbit/s

95th percentile per-packet one-way delay: 161.380 ms

Loss rate: 1.37%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-03-09 08:13:50

End at: 2019-03-09 08:14:20

Local clock offset: -0.491 ms

Remote clock offset: 4.634 ms

Below is generated by plot.py at 2019-03-09 09:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.76 Mbit/s

95th percentile per-packet one-way delay: 142.279 ms

Loss rate: 0.74%

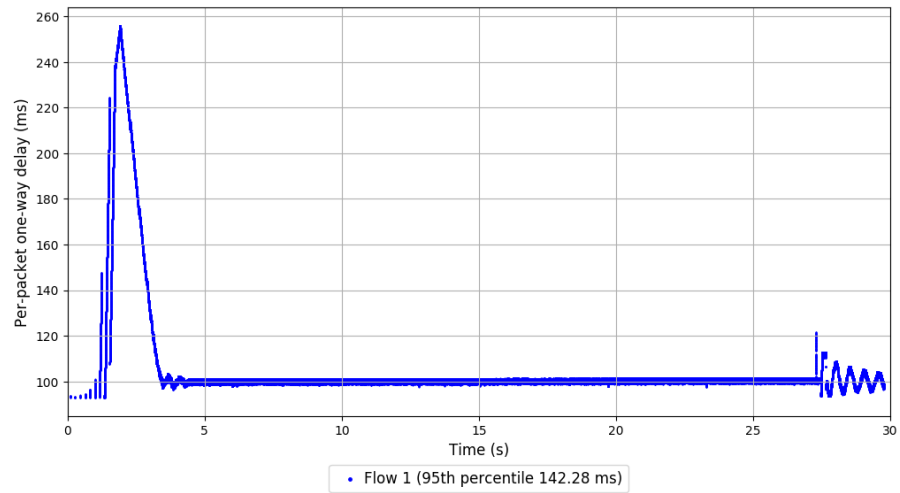
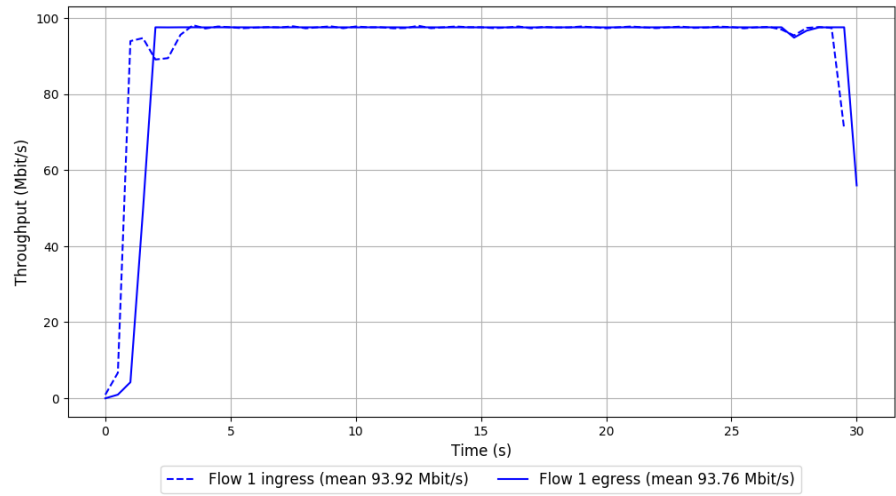
-- Flow 1:

Average throughput: 93.76 Mbit/s

95th percentile per-packet one-way delay: 142.279 ms

Loss rate: 0.74%

Run 2: Report of Indigo — Data Link

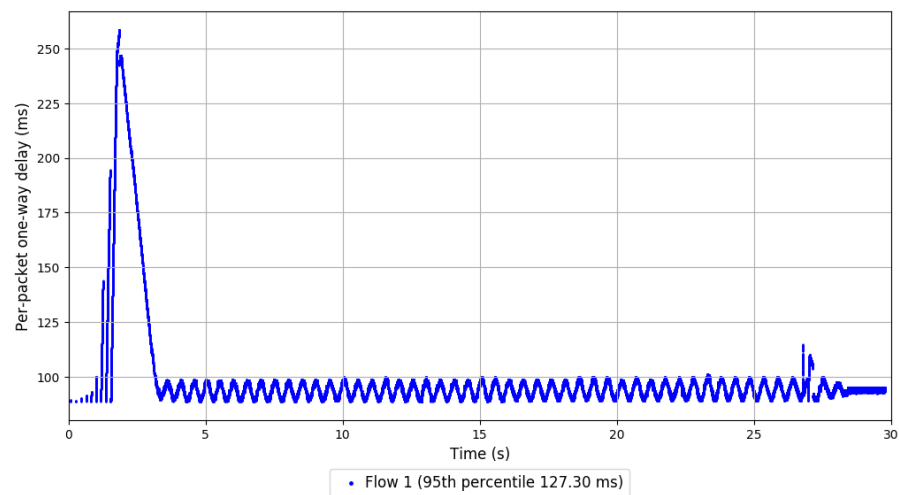
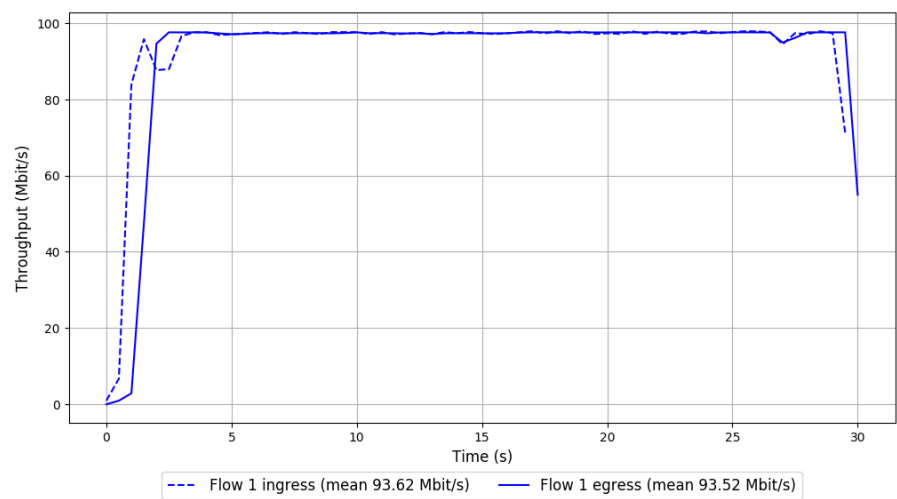


Run 3: Statistics of Indigo

Start at: 2019-03-09 08:38:49
End at: 2019-03-09 08:39:19
Local clock offset: -7.532 ms
Remote clock offset: 18.786 ms

Below is generated by plot.py at 2019-03-09 09:46:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.52 Mbit/s
95th percentile per-packet one-way delay: 127.304 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 93.52 Mbit/s
95th percentile per-packet one-way delay: 127.304 ms
Loss rate: 0.68%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-03-09 09:03:47

End at: 2019-03-09 09:04:17

Local clock offset: -6.839 ms

Remote clock offset: 7.174 ms

Below is generated by plot.py at 2019-03-09 09:46:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.03 Mbit/s

95th percentile per-packet one-way delay: 169.450 ms

Loss rate: 2.73%

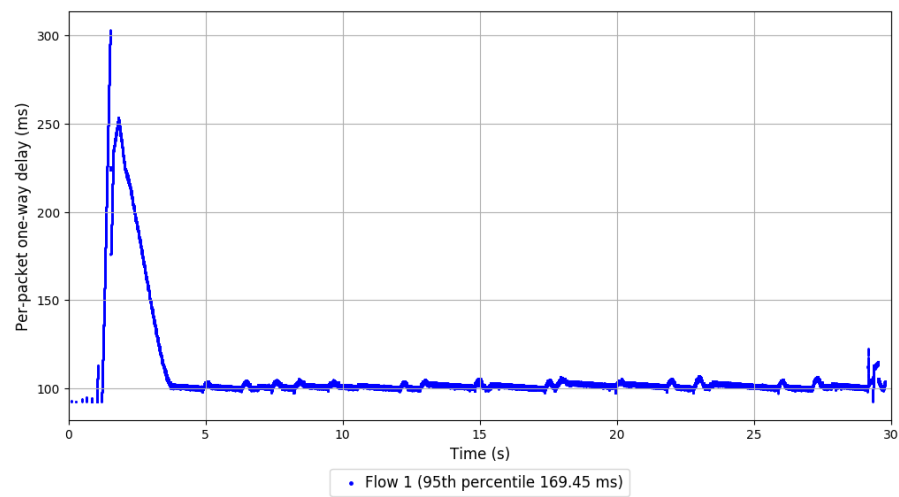
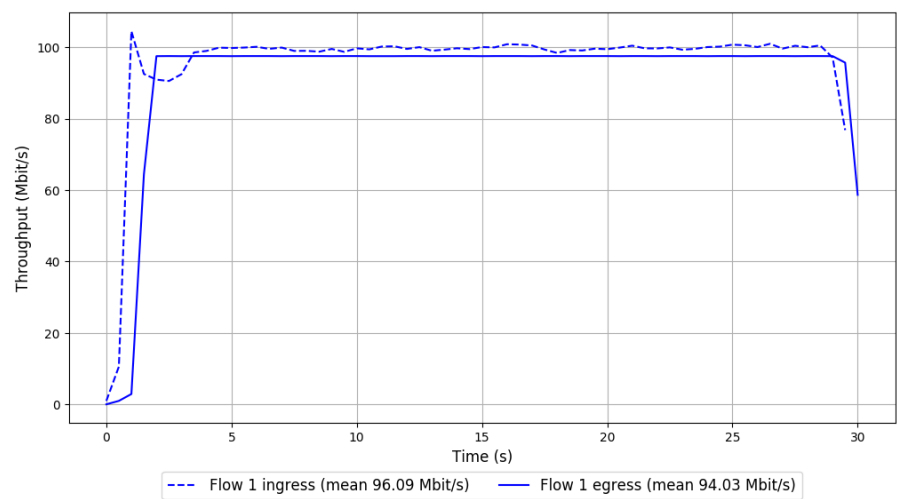
-- Flow 1:

Average throughput: 94.03 Mbit/s

95th percentile per-packet one-way delay: 169.450 ms

Loss rate: 2.73%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-03-09 09:28:45

End at: 2019-03-09 09:29:15

Local clock offset: -6.134 ms

Remote clock offset: 0.49 ms

Below is generated by plot.py at 2019-03-09 09:46:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.77 Mbit/s

95th percentile per-packet one-way delay: 173.094 ms

Loss rate: 1.94%

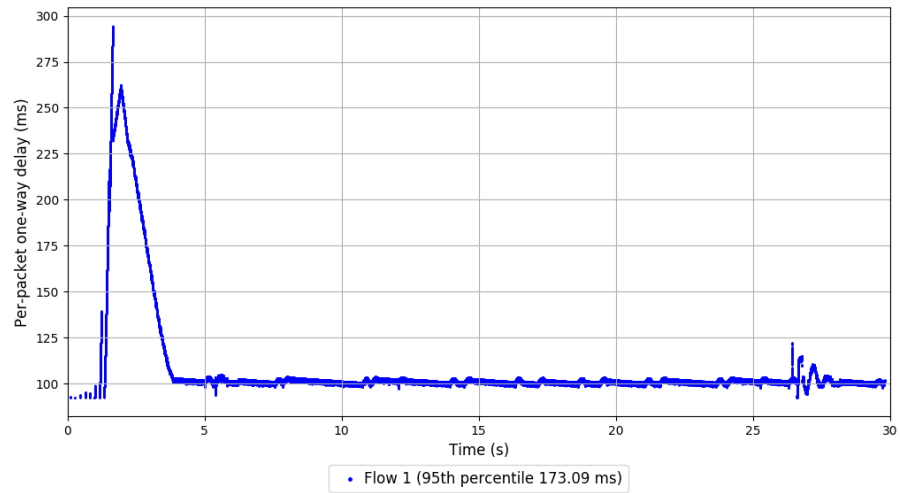
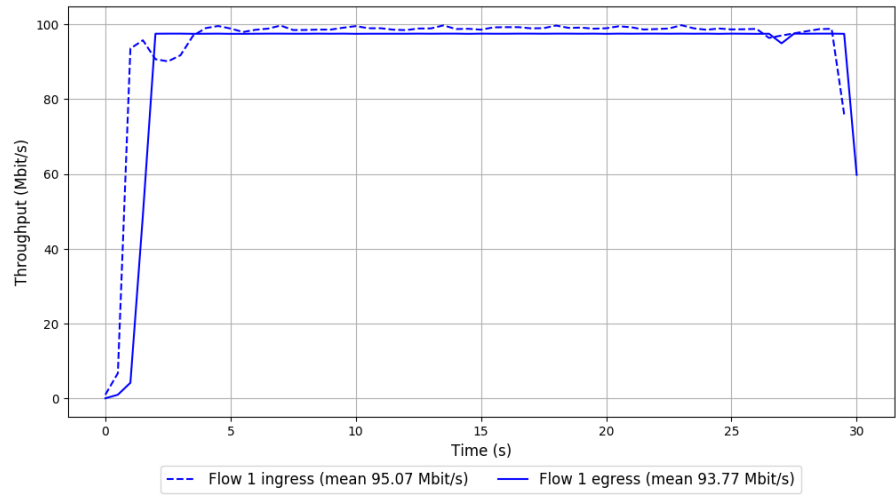
-- Flow 1:

Average throughput: 93.77 Mbit/s

95th percentile per-packet one-way delay: 173.094 ms

Loss rate: 1.94%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-03-09 07:51:11

End at: 2019-03-09 07:51:41

Local clock offset: -3.73 ms

Remote clock offset: 4.389 ms

Below is generated by plot.py at 2019-03-09 09:46:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.15 Mbit/s

95th percentile per-packet one-way delay: 113.792 ms

Loss rate: 8.34%

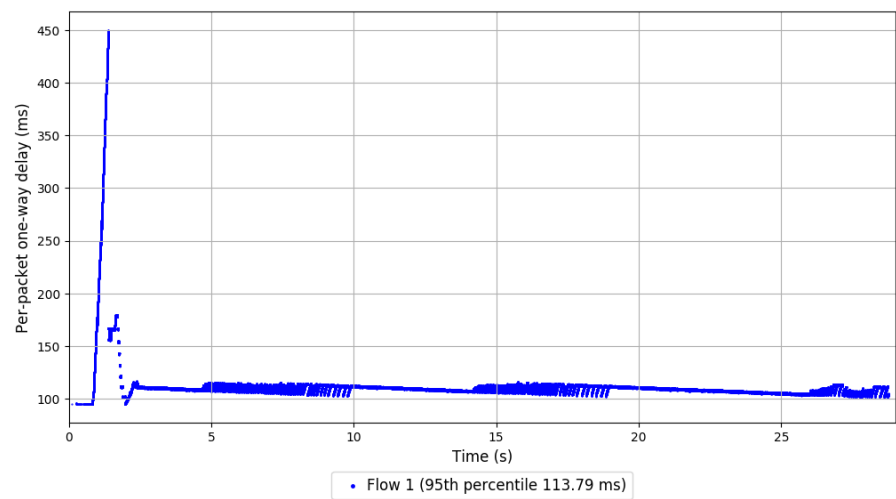
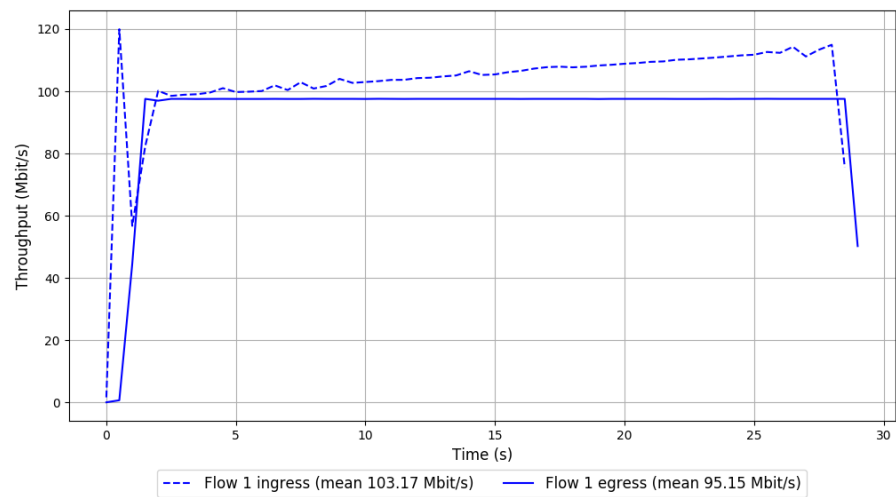
-- Flow 1:

Average throughput: 95.15 Mbit/s

95th percentile per-packet one-way delay: 113.792 ms

Loss rate: 8.34%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-03-09 08:16:11

End at: 2019-03-09 08:16:41

Local clock offset: -2.467 ms

Remote clock offset: 7.528 ms

Below is generated by plot.py at 2019-03-09 09:47:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.21 Mbit/s

95th percentile per-packet one-way delay: 109.775 ms

Loss rate: 5.62%

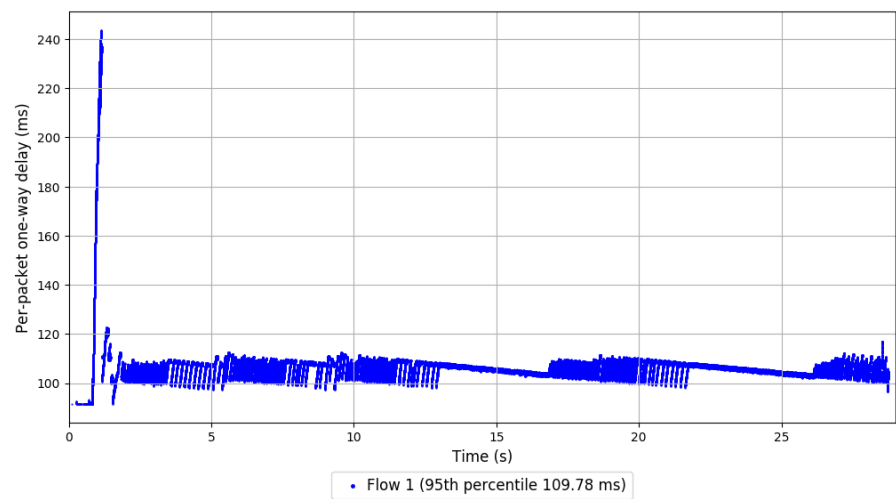
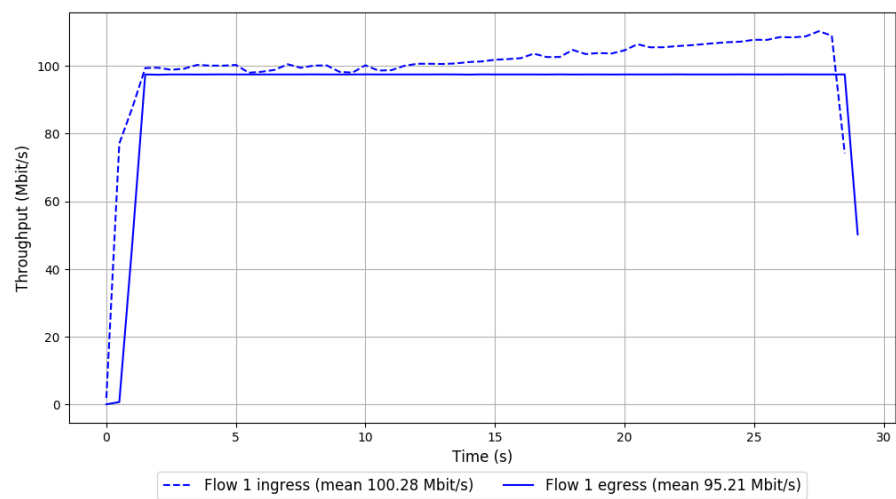
-- Flow 1:

Average throughput: 95.21 Mbit/s

95th percentile per-packet one-way delay: 109.775 ms

Loss rate: 5.62%

Run 2: Report of Indigo-MusesC3 — Data Link

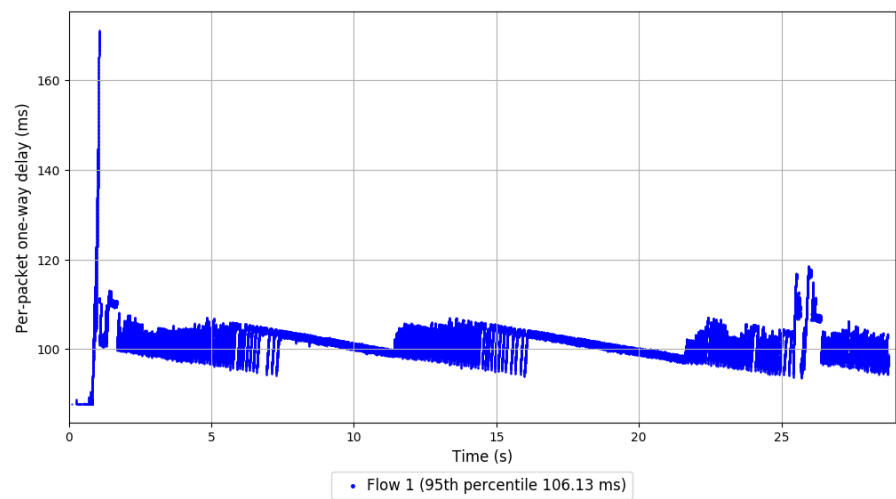
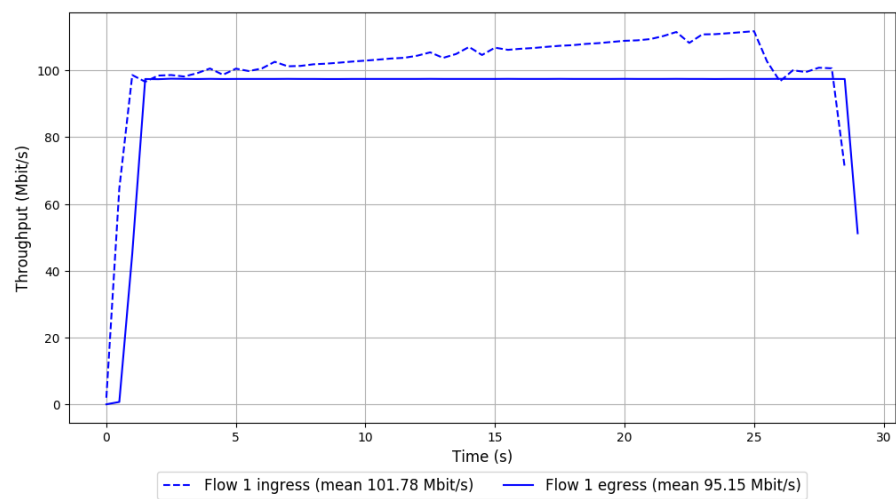


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-03-09 08:41:10
End at: 2019-03-09 08:41:40
Local clock offset: -6.917 ms
Remote clock offset: 20.299 ms

Below is generated by plot.py at 2019-03-09 09:47:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.15 Mbit/s
95th percentile per-packet one-way delay: 106.127 ms
Loss rate: 7.06%
-- Flow 1:
Average throughput: 95.15 Mbit/s
95th percentile per-packet one-way delay: 106.127 ms
Loss rate: 7.06%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-03-09 09:06:09

End at: 2019-03-09 09:06:39

Local clock offset: -7.579 ms

Remote clock offset: 1.711 ms

Below is generated by plot.py at 2019-03-09 09:47:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.12 Mbit/s

95th percentile per-packet one-way delay: 110.563 ms

Loss rate: 6.65%

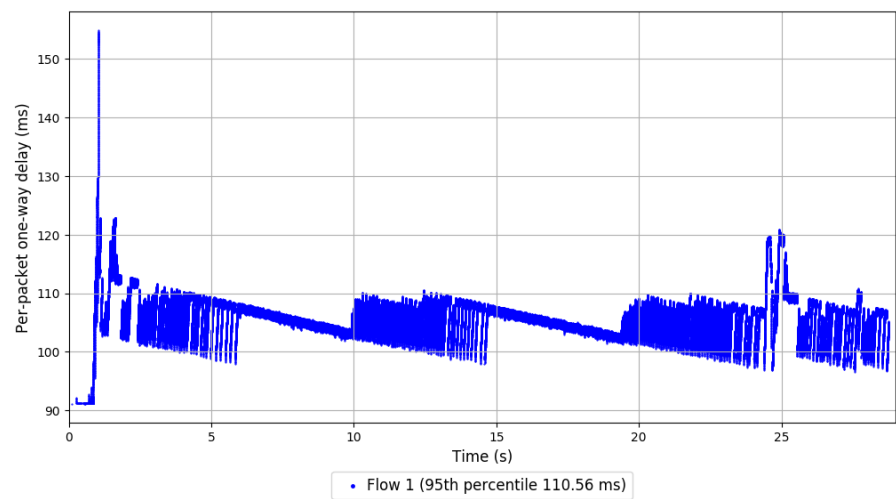
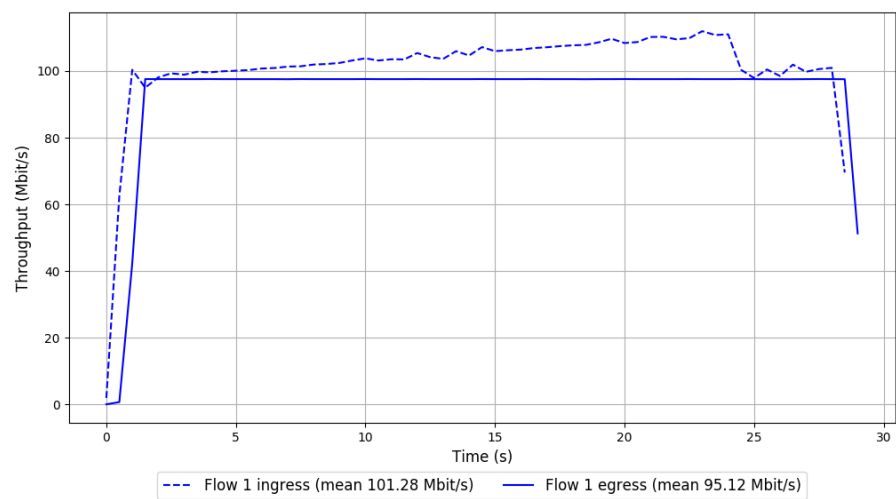
-- Flow 1:

Average throughput: 95.12 Mbit/s

95th percentile per-packet one-way delay: 110.563 ms

Loss rate: 6.65%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-03-09 09:31:07

End at: 2019-03-09 09:31:37

Local clock offset: -5.275 ms

Remote clock offset: 5.643 ms

Below is generated by plot.py at 2019-03-09 09:47:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.27 Mbit/s

95th percentile per-packet one-way delay: 106.858 ms

Loss rate: 6.40%

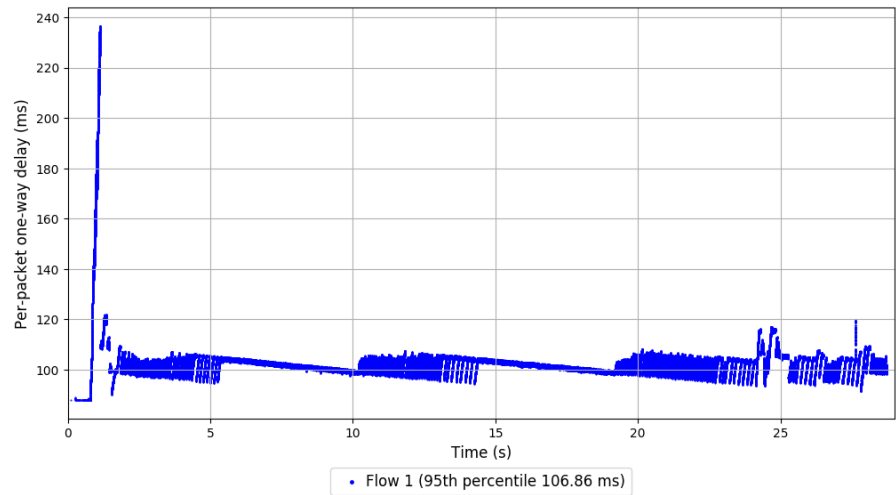
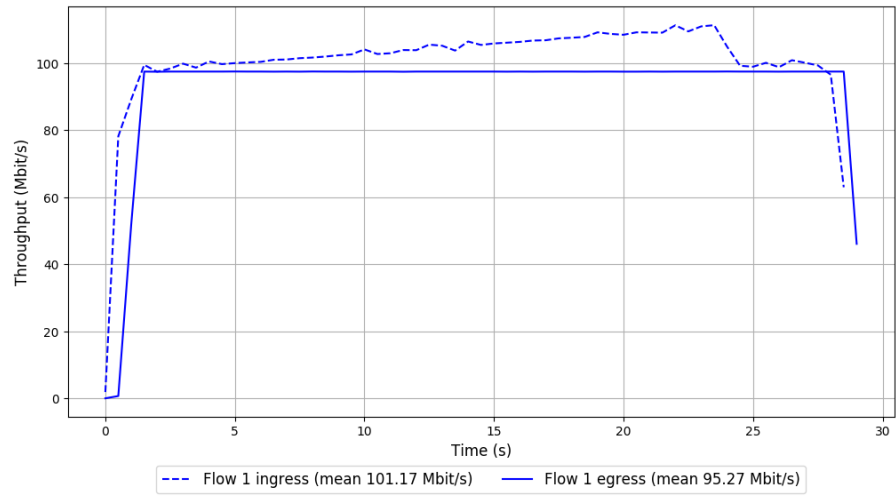
-- Flow 1:

Average throughput: 95.27 Mbit/s

95th percentile per-packet one-way delay: 106.858 ms

Loss rate: 6.40%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-03-09 07:54:46

End at: 2019-03-09 07:55:16

Local clock offset: -2.889 ms

Remote clock offset: 0.953 ms

Below is generated by plot.py at 2019-03-09 09:47:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.86 Mbit/s

95th percentile per-packet one-way delay: 99.988 ms

Loss rate: 0.64%

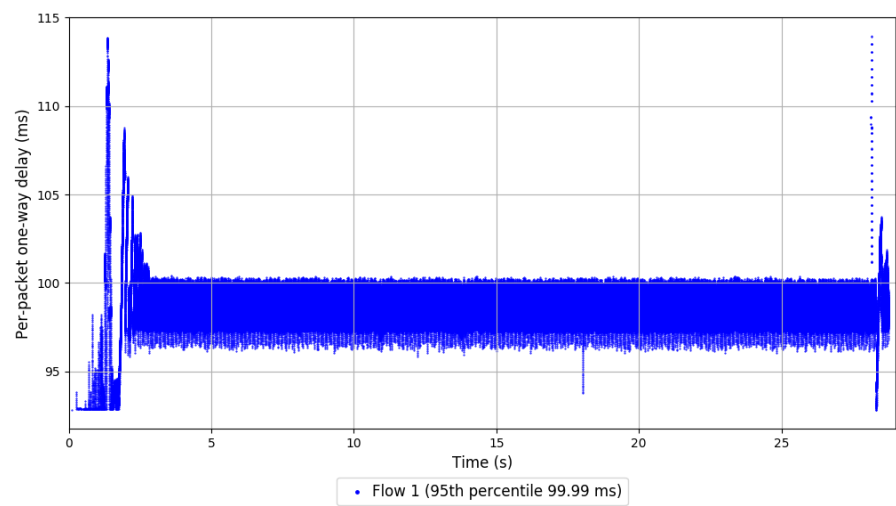
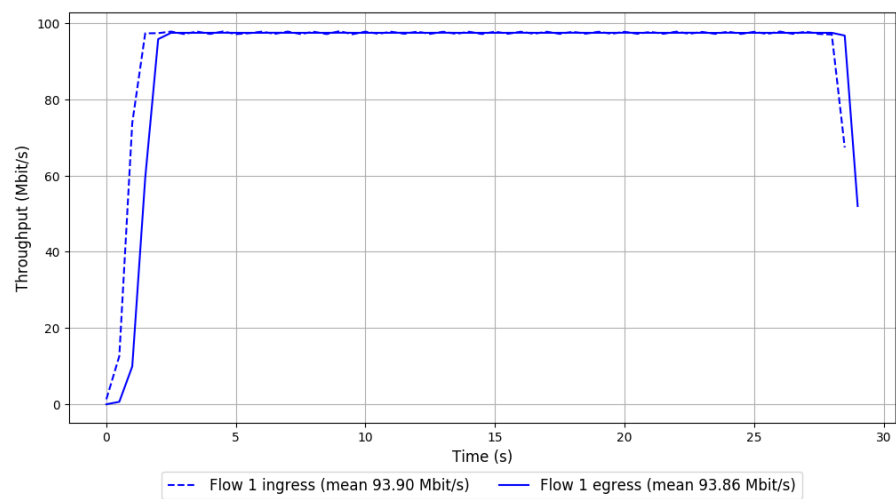
-- Flow 1:

Average throughput: 93.86 Mbit/s

95th percentile per-packet one-way delay: 99.988 ms

Loss rate: 0.64%

Run 1: Report of Indigo-MusesC5 — Data Link

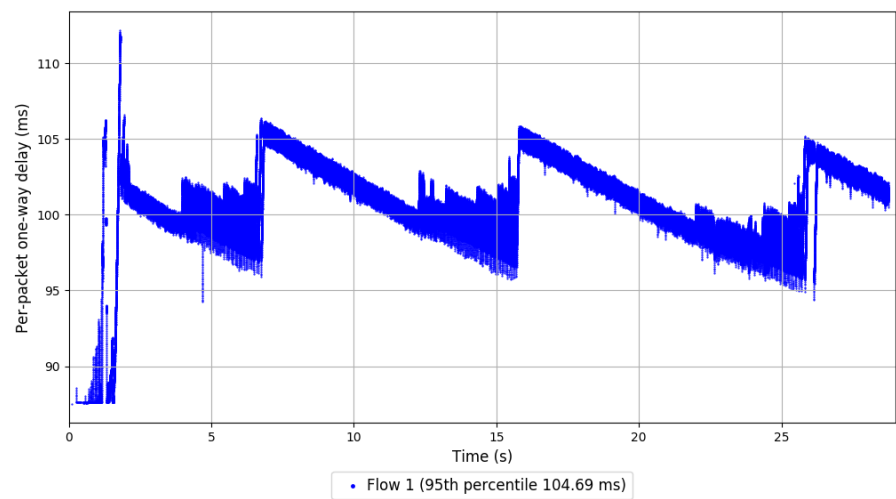
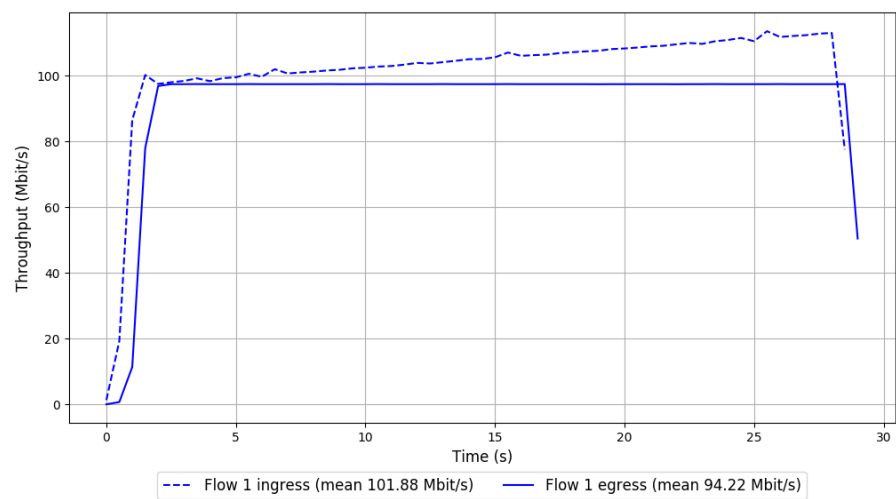


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-03-09 08:19:46
End at: 2019-03-09 08:20:16
Local clock offset: -3.495 ms
Remote clock offset: 13.725 ms

Below is generated by plot.py at 2019-03-09 09:47:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.22 Mbit/s
95th percentile per-packet one-way delay: 104.693 ms
Loss rate: 8.07%
-- Flow 1:
Average throughput: 94.22 Mbit/s
95th percentile per-packet one-way delay: 104.693 ms
Loss rate: 8.07%

Run 2: Report of Indigo-MusesC5 — Data Link

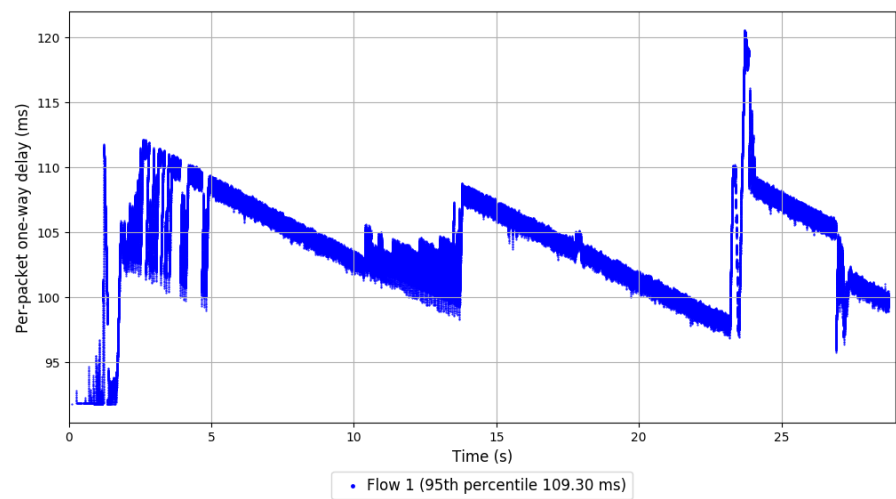
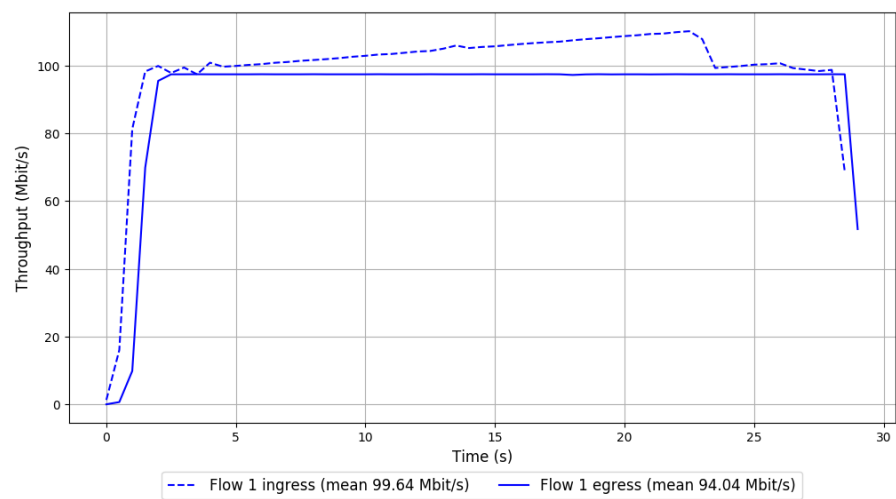


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-03-09 08:44:44
End at: 2019-03-09 08:45:14
Local clock offset: -7.06 ms
Remote clock offset: 17.581 ms

Below is generated by plot.py at 2019-03-09 09:47:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.04 Mbit/s
95th percentile per-packet one-way delay: 109.304 ms
Loss rate: 6.18%
-- Flow 1:
Average throughput: 94.04 Mbit/s
95th percentile per-packet one-way delay: 109.304 ms
Loss rate: 6.18%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-03-09 09:09:43

End at: 2019-03-09 09:10:13

Local clock offset: -7.624 ms

Remote clock offset: 1.11 ms

Below is generated by plot.py at 2019-03-09 09:47:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.70 Mbit/s

95th percentile per-packet one-way delay: 102.246 ms

Loss rate: 0.60%

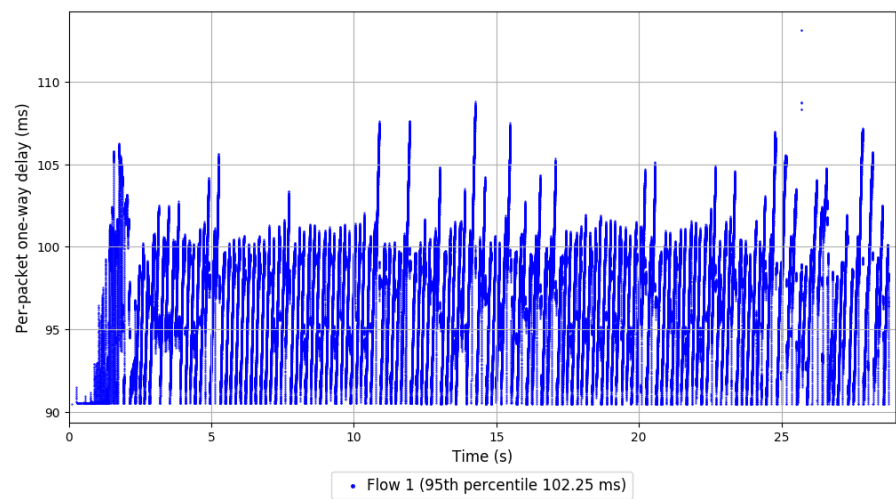
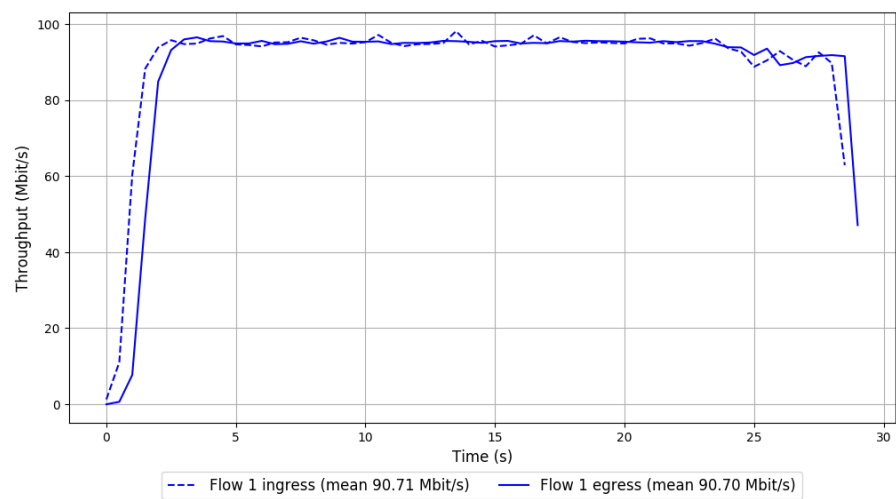
-- Flow 1:

Average throughput: 90.70 Mbit/s

95th percentile per-packet one-way delay: 102.246 ms

Loss rate: 0.60%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-03-09 09:34:41

End at: 2019-03-09 09:35:11

Local clock offset: -5.91 ms

Remote clock offset: 5.523 ms

Below is generated by plot.py at 2019-03-09 09:48:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.40 Mbit/s

95th percentile per-packet one-way delay: 105.801 ms

Loss rate: 7.09%

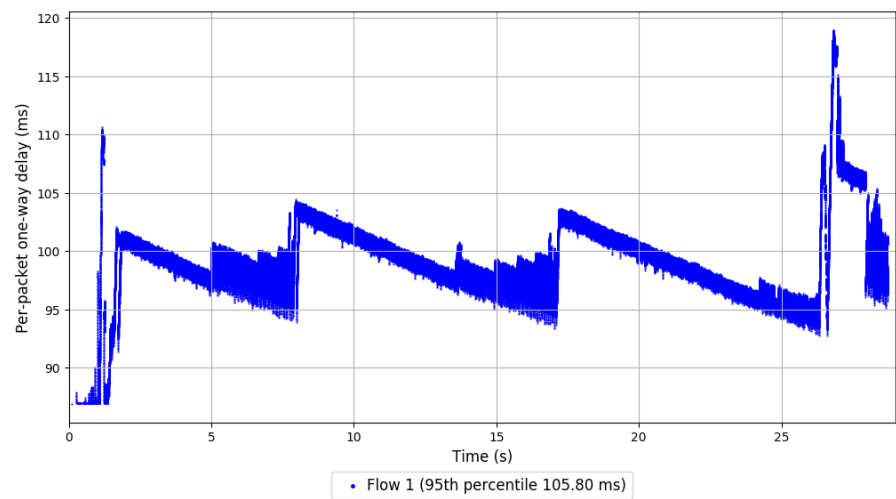
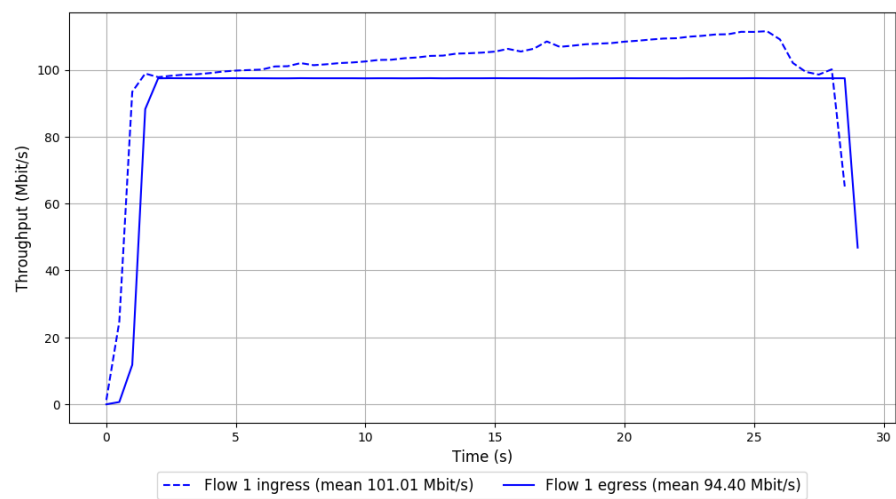
-- Flow 1:

Average throughput: 94.40 Mbit/s

95th percentile per-packet one-way delay: 105.801 ms

Loss rate: 7.09%

Run 5: Report of Indigo-MusesC5 — Data Link

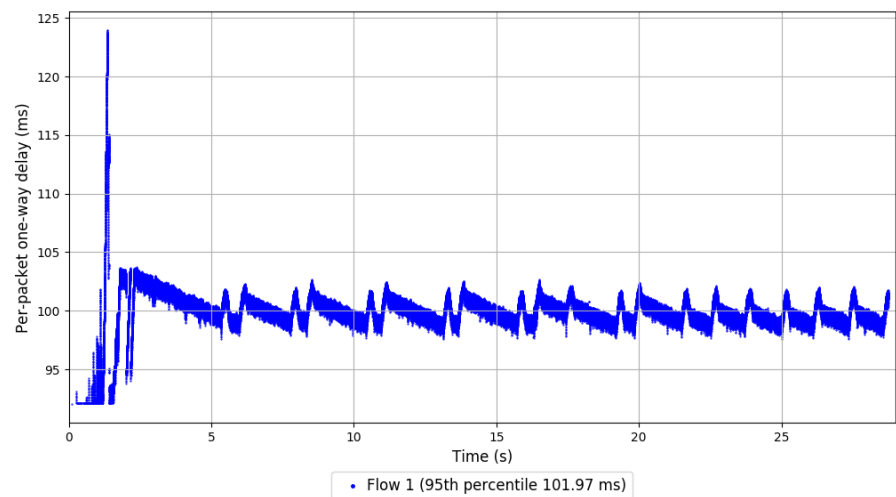
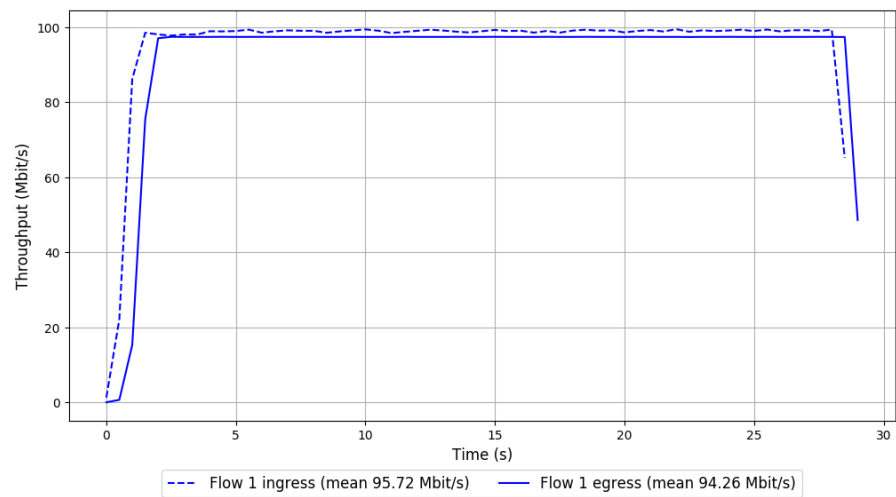



```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-03-09 07:44:00
End at: 2019-03-09 07:44:30
Local clock offset: -7.486 ms
Remote clock offset: -0.198 ms

# Below is generated by plot.py at 2019-03-09 09:48:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.26 Mbit/s
95th percentile per-packet one-way delay: 101.973 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 94.26 Mbit/s
95th percentile per-packet one-way delay: 101.973 ms
Loss rate: 2.11%
```

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-03-09 08:08:59

End at: 2019-03-09 08:09:29

Local clock offset: -0.876 ms

Remote clock offset: 2.409 ms

Below is generated by plot.py at 2019-03-09 09:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.42 Mbit/s

95th percentile per-packet one-way delay: 102.988 ms

Loss rate: 0.69%

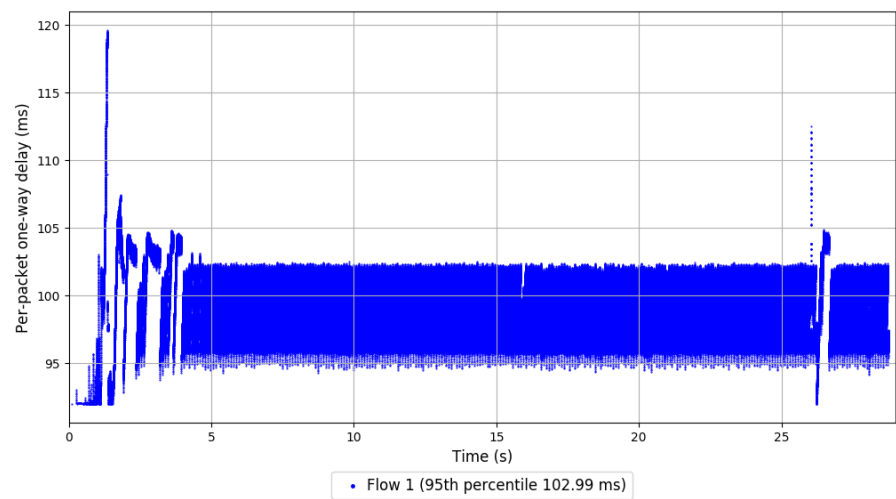
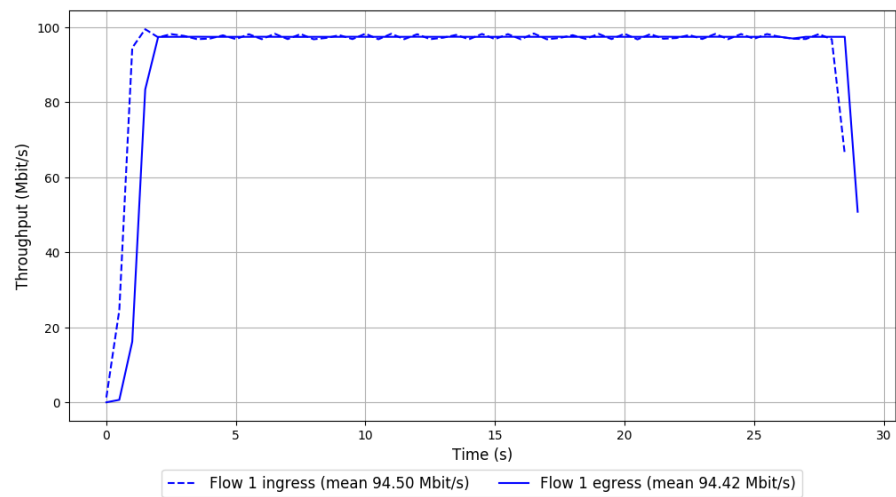
-- Flow 1:

Average throughput: 94.42 Mbit/s

95th percentile per-packet one-way delay: 102.988 ms

Loss rate: 0.69%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-03-09 08:33:58

End at: 2019-03-09 08:34:28

Local clock offset: -6.373 ms

Remote clock offset: 13.722 ms

Below is generated by plot.py at 2019-03-09 09:48:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.55 Mbit/s

95th percentile per-packet one-way delay: 104.827 ms

Loss rate: 0.64%

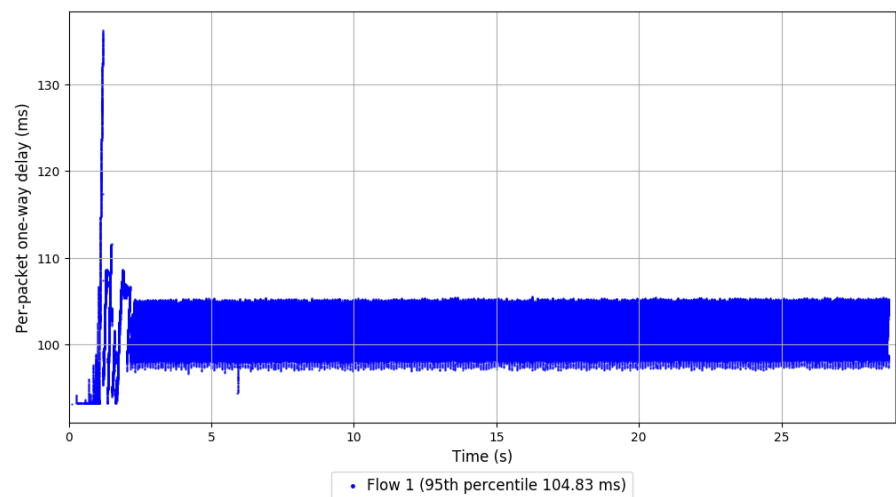
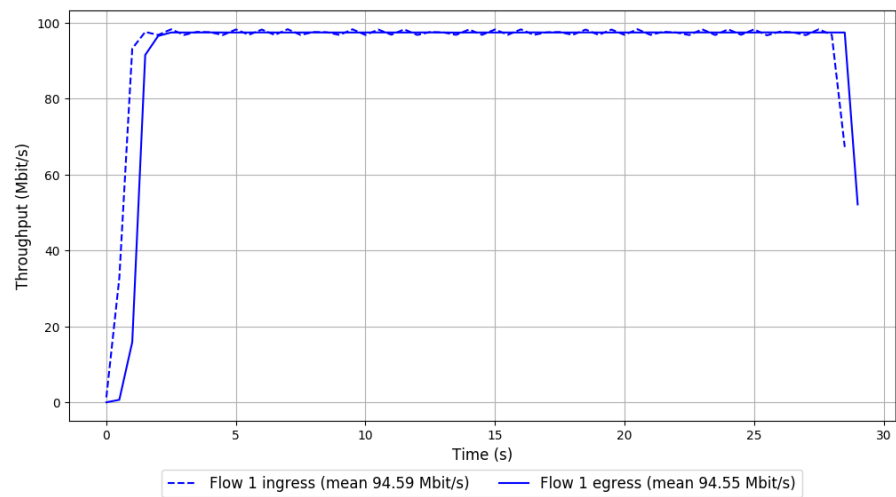
-- Flow 1:

Average throughput: 94.55 Mbit/s

95th percentile per-packet one-way delay: 104.827 ms

Loss rate: 0.64%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-03-09 08:58:57

End at: 2019-03-09 08:59:27

Local clock offset: -6.759 ms

Remote clock offset: 8.809 ms

Below is generated by plot.py at 2019-03-09 09:49:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.08 Mbit/s

95th percentile per-packet one-way delay: 97.260 ms

Loss rate: 2.21%

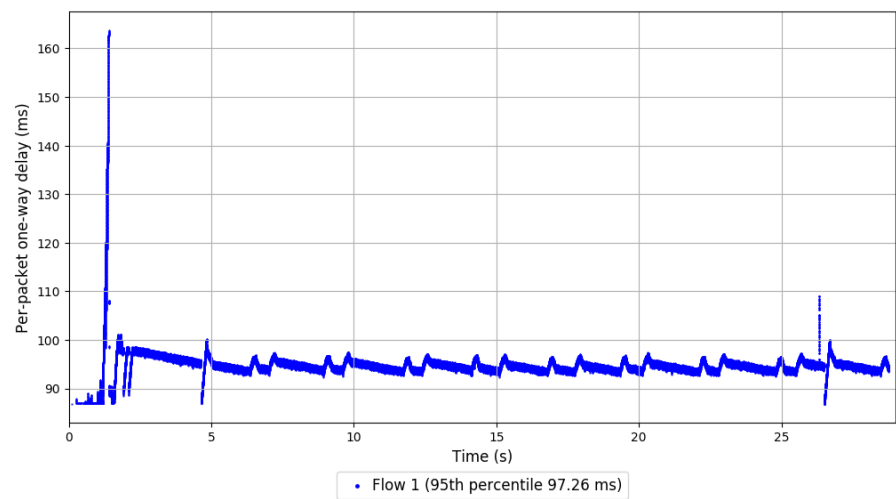
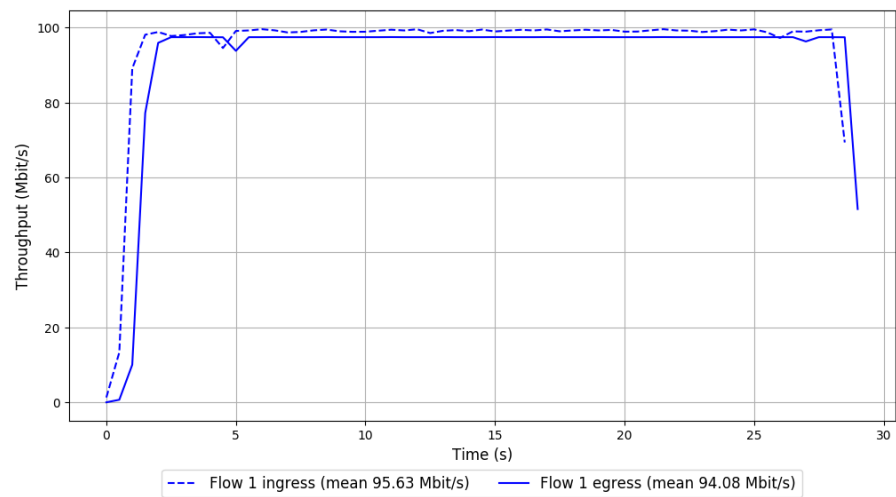
-- Flow 1:

Average throughput: 94.08 Mbit/s

95th percentile per-packet one-way delay: 97.260 ms

Loss rate: 2.21%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-03-09 09:23:55

End at: 2019-03-09 09:24:25

Local clock offset: -5.727 ms

Remote clock offset: 4.902 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.58 Mbit/s

95th percentile per-packet one-way delay: 96.969 ms

Loss rate: 1.65%

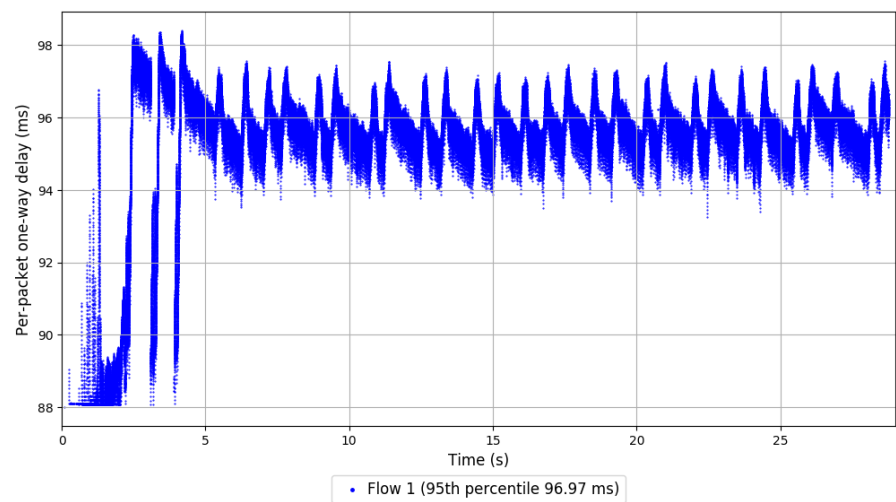
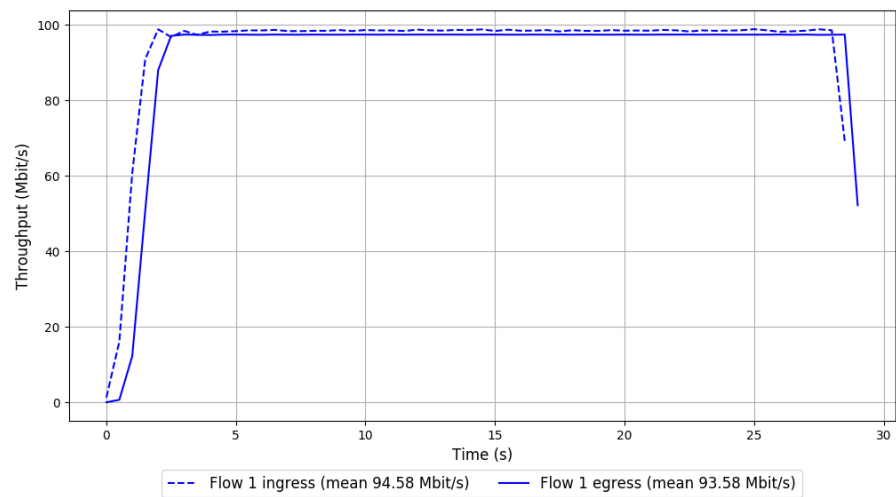
-- Flow 1:

Average throughput: 93.58 Mbit/s

95th percentile per-packet one-way delay: 96.969 ms

Loss rate: 1.65%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-03-09 07:39:18

End at: 2019-03-09 07:39:48

Local clock offset: -6.712 ms

Remote clock offset: -1.363 ms

Below is generated by plot.py at 2019-03-09 09:49:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.38 Mbit/s

95th percentile per-packet one-way delay: 119.059 ms

Loss rate: 7.34%

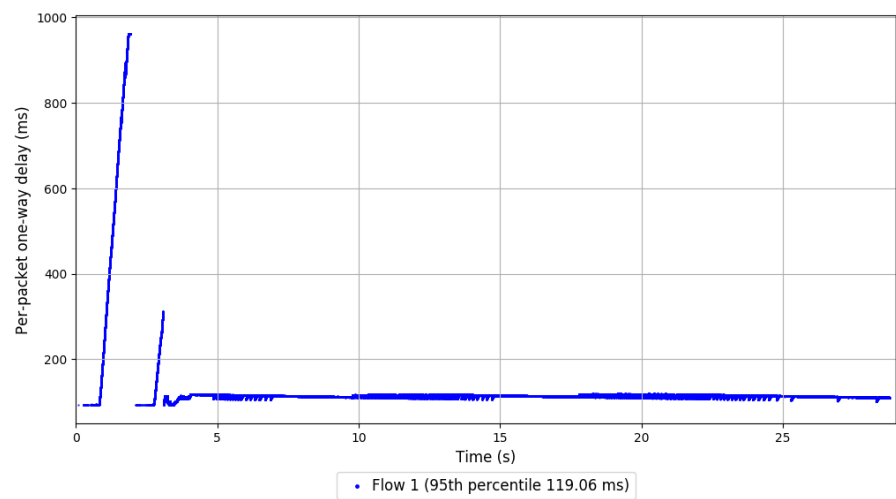
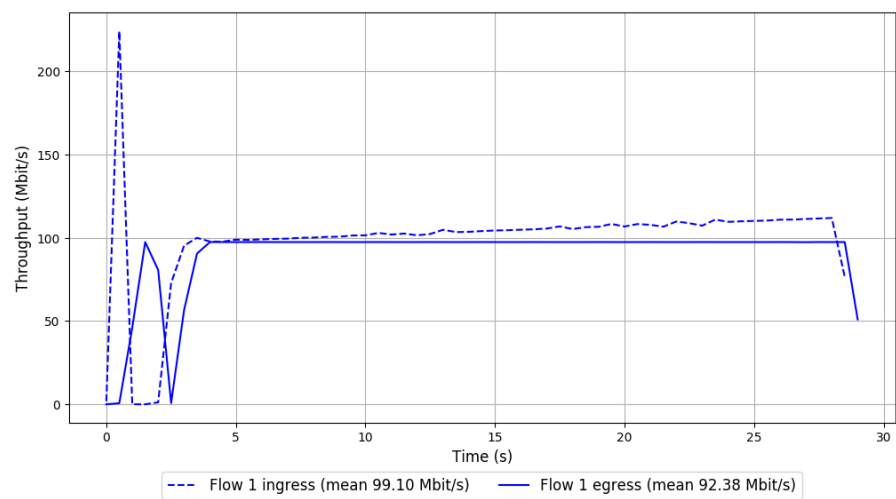
-- Flow 1:

Average throughput: 92.38 Mbit/s

95th percentile per-packet one-way delay: 119.059 ms

Loss rate: 7.34%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-03-09 08:04:17

End at: 2019-03-09 08:04:47

Local clock offset: -2.135 ms

Remote clock offset: 2.343 ms

Below is generated by plot.py at 2019-03-09 09:49:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.40 Mbit/s

95th percentile per-packet one-way delay: 117.003 ms

Loss rate: 7.45%

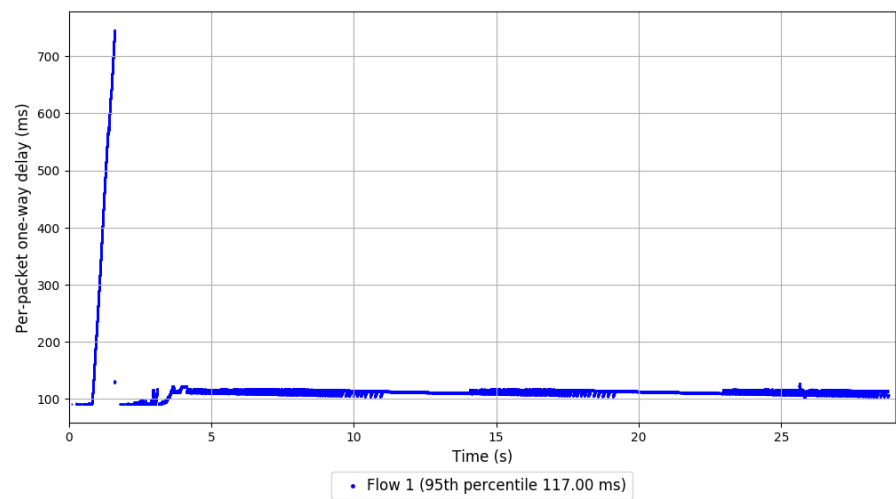
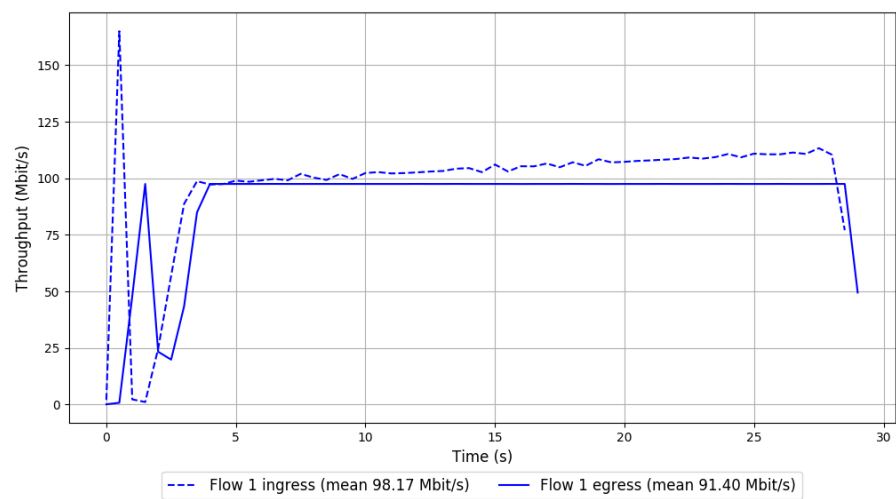
-- Flow 1:

Average throughput: 91.40 Mbit/s

95th percentile per-packet one-way delay: 117.003 ms

Loss rate: 7.45%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-03-09 08:29:16

End at: 2019-03-09 08:29:46

Local clock offset: -6.59 ms

Remote clock offset: 12.29 ms

Below is generated by plot.py at 2019-03-09 09:49:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.87 Mbit/s

95th percentile per-packet one-way delay: 117.272 ms

Loss rate: 7.83%

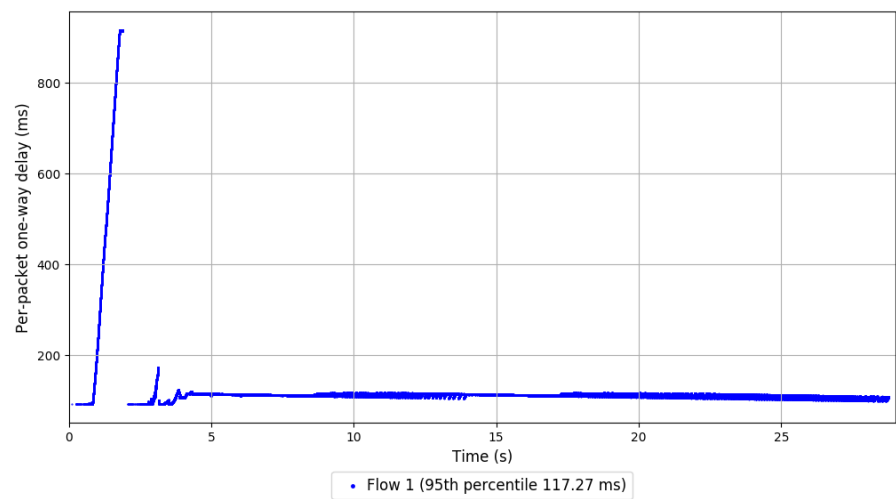
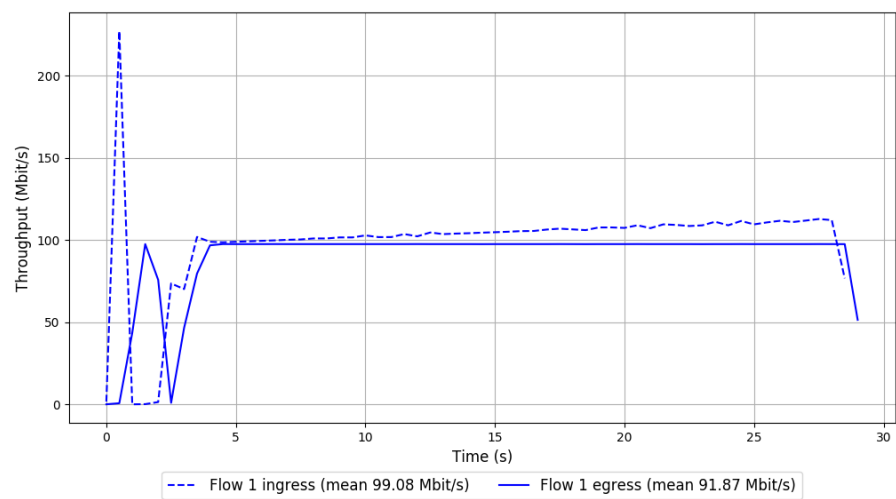
-- Flow 1:

Average throughput: 91.87 Mbit/s

95th percentile per-packet one-way delay: 117.272 ms

Loss rate: 7.83%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-03-09 08:54:15

End at: 2019-03-09 08:54:45

Local clock offset: -7.517 ms

Remote clock offset: 9.035 ms

Below is generated by plot.py at 2019-03-09 09:49:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.86 Mbit/s

95th percentile per-packet one-way delay: 115.072 ms

Loss rate: 7.34%

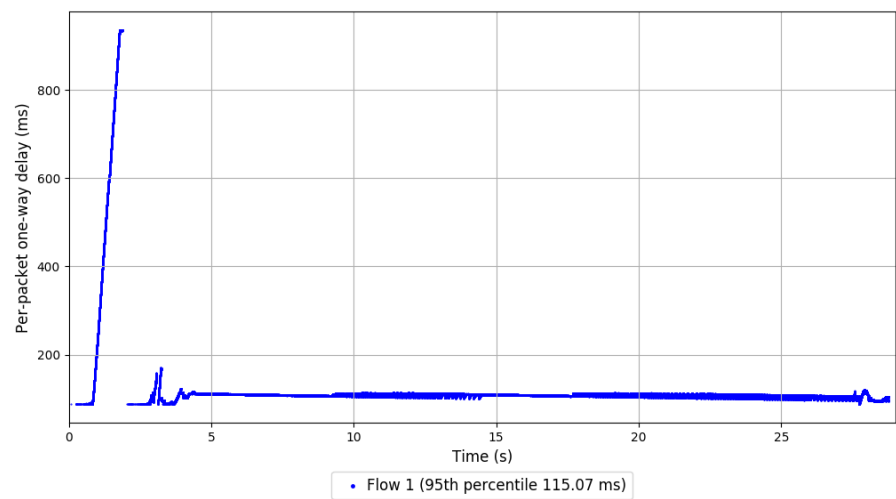
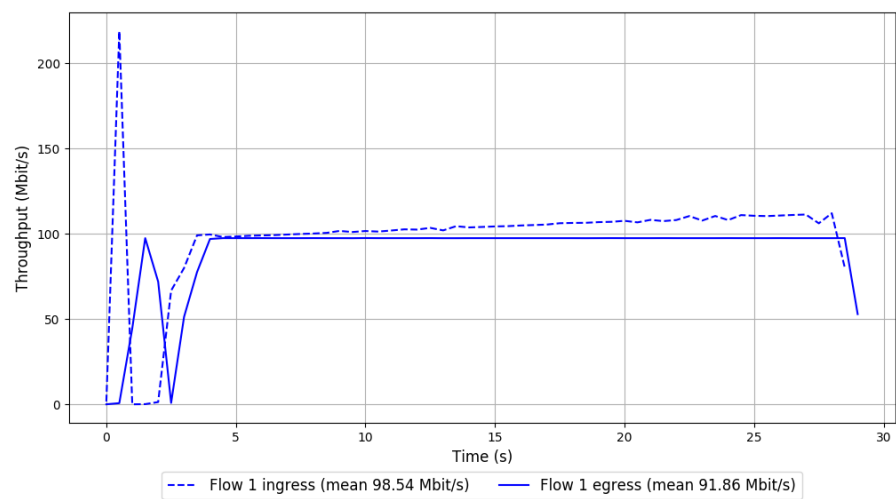
-- Flow 1:

Average throughput: 91.86 Mbit/s

95th percentile per-packet one-way delay: 115.072 ms

Loss rate: 7.34%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-03-09 09:19:12

End at: 2019-03-09 09:19:43

Local clock offset: -6.124 ms

Remote clock offset: 4.102 ms

Below is generated by plot.py at 2019-03-09 09:49:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.44 Mbit/s

95th percentile per-packet one-way delay: 113.440 ms

Loss rate: 7.39%

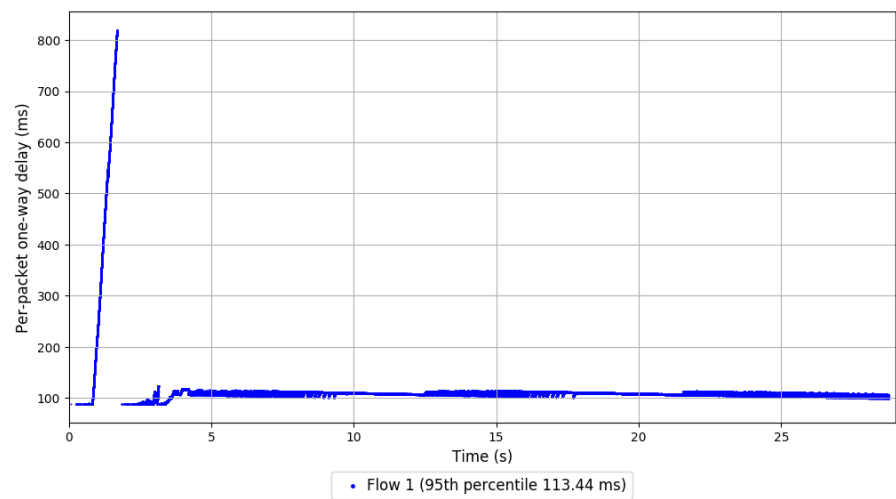
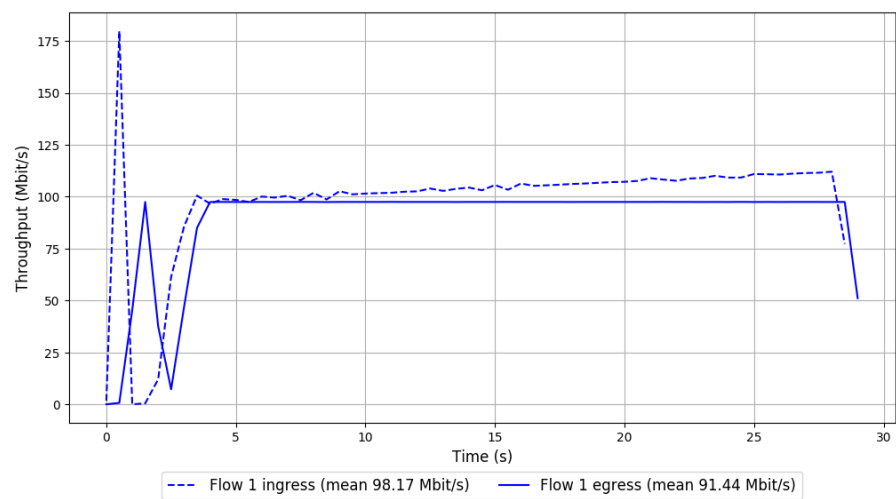
-- Flow 1:

Average throughput: 91.44 Mbit/s

95th percentile per-packet one-way delay: 113.440 ms

Loss rate: 7.39%

Run 5: Report of Indigo-MusesT — Data Link

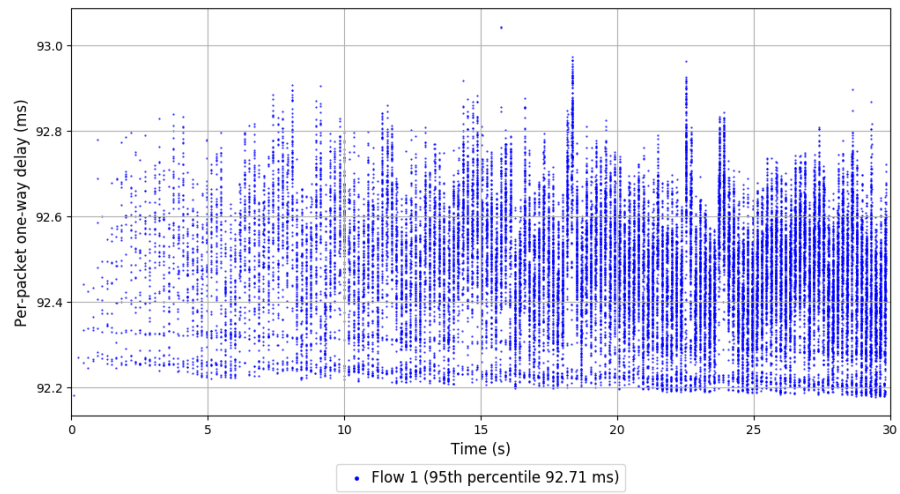
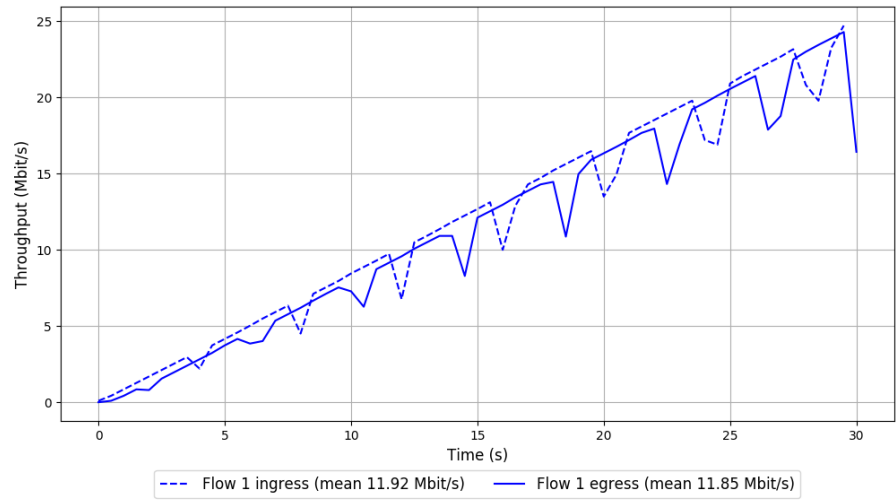


```
Run 1: Statistics of LEDBAT

Start at: 2019-03-09 07:59:31
End at: 2019-03-09 08:00:01
Local clock offset: -2.773 ms
Remote clock offset: 1.079 ms

# Below is generated by plot.py at 2019-03-09 09:49:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.85 Mbit/s
95th percentile per-packet one-way delay: 92.707 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 11.85 Mbit/s
95th percentile per-packet one-way delay: 92.707 ms
Loss rate: 1.16%
```

Run 1: Report of LEDBAT — Data Link

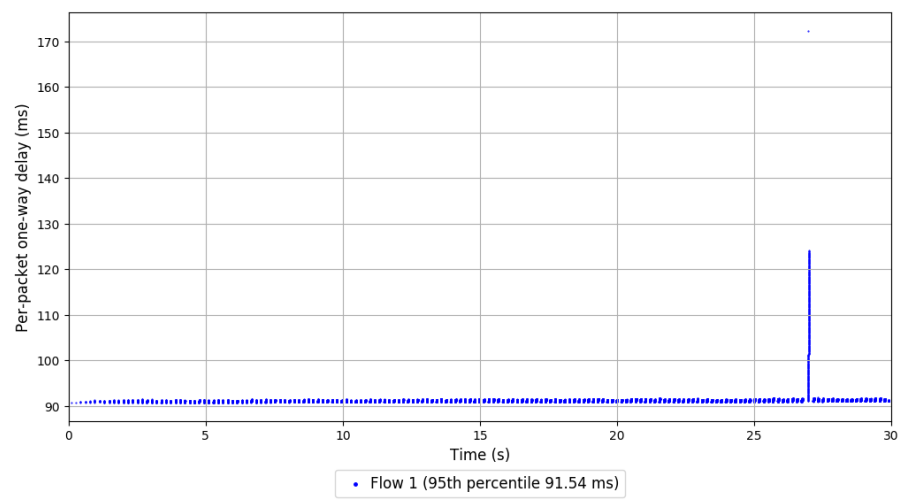
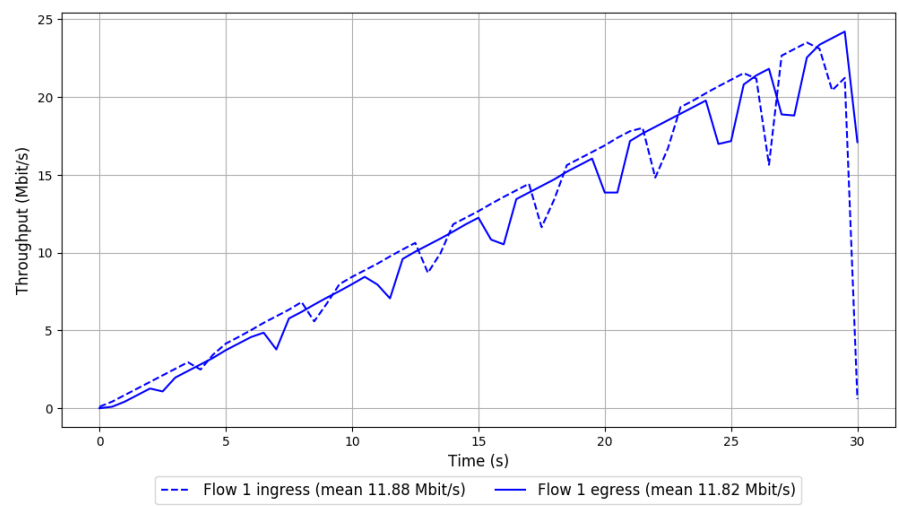


Run 2: Statistics of LEDBAT

Start at: 2019-03-09 08:24:31
End at: 2019-03-09 08:25:01
Local clock offset: -5.621 ms
Remote clock offset: 12.012 ms

Below is generated by plot.py at 2019-03-09 09:49:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.82 Mbit/s
95th percentile per-packet one-way delay: 91.539 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 11.82 Mbit/s
95th percentile per-packet one-way delay: 91.539 ms
Loss rate: 1.14%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-03-09 08:49:30

End at: 2019-03-09 08:50:00

Local clock offset: -7.609 ms

Remote clock offset: 9.51 ms

Below is generated by plot.py at 2019-03-09 09:49:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.68 Mbit/s

95th percentile per-packet one-way delay: 92.321 ms

Loss rate: 1.17%

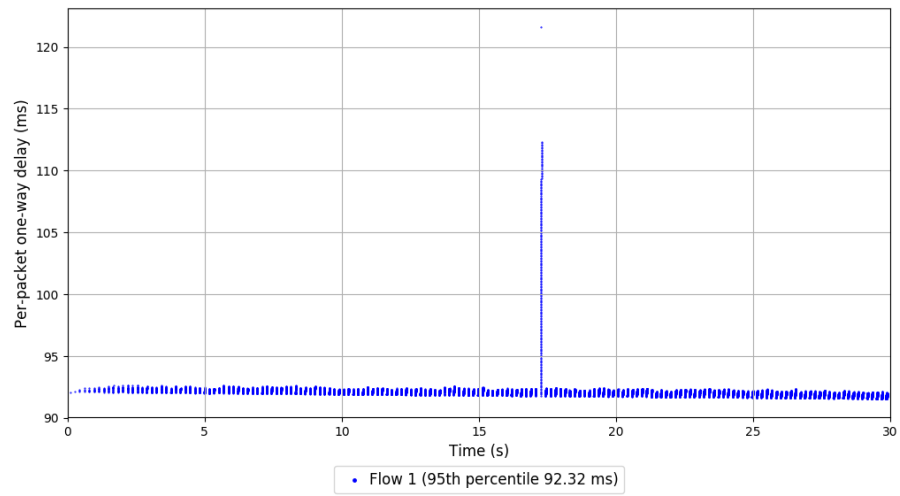
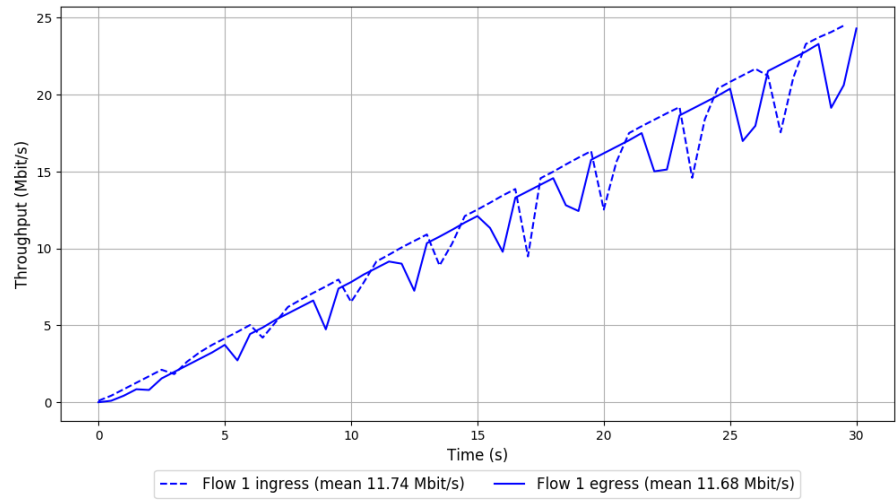
-- Flow 1:

Average throughput: 11.68 Mbit/s

95th percentile per-packet one-way delay: 92.321 ms

Loss rate: 1.17%

Run 3: Report of LEDBAT — Data Link

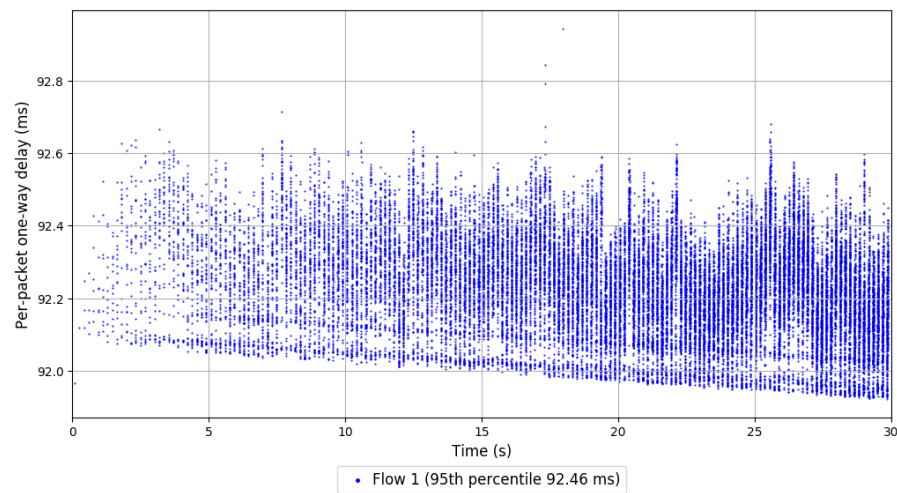
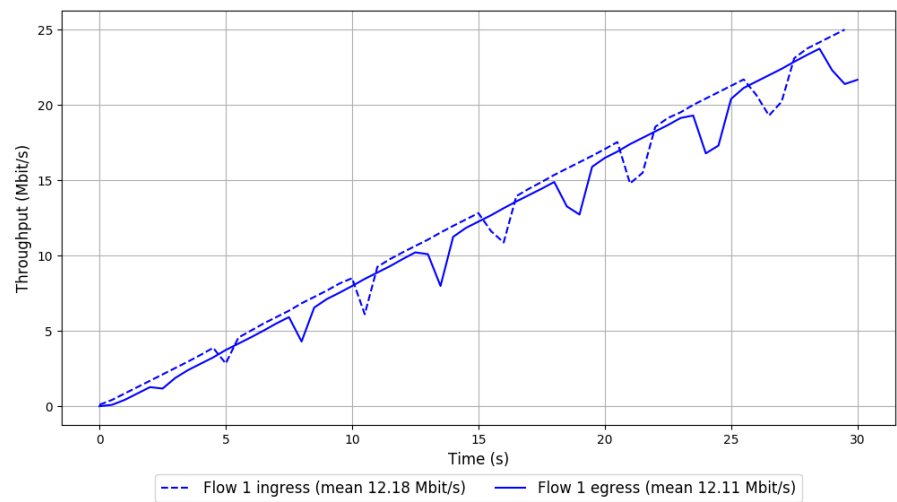


Run 4: Statistics of LEDBAT

Start at: 2019-03-09 09:14:28
End at: 2019-03-09 09:14:58
Local clock offset: -7.728 ms
Remote clock offset: -0.471 ms

Below is generated by plot.py at 2019-03-09 09:49:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.11 Mbit/s
95th percentile per-packet one-way delay: 92.456 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.11 Mbit/s
95th percentile per-packet one-way delay: 92.456 ms
Loss rate: 1.15%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-03-09 09:39:26

End at: 2019-03-09 09:39:56

Local clock offset: -5.823 ms

Remote clock offset: 0.936 ms

Below is generated by plot.py at 2019-03-09 09:49:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.69 Mbit/s

95th percentile per-packet one-way delay: 92.910 ms

Loss rate: 1.17%

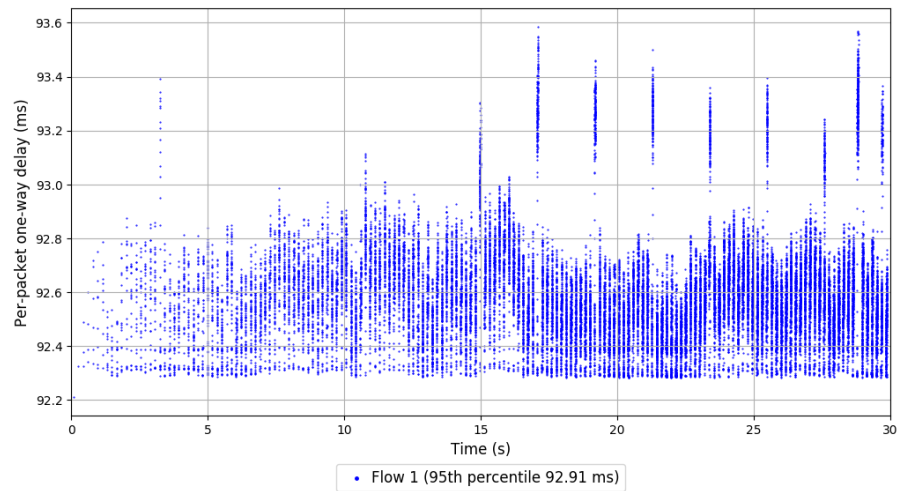
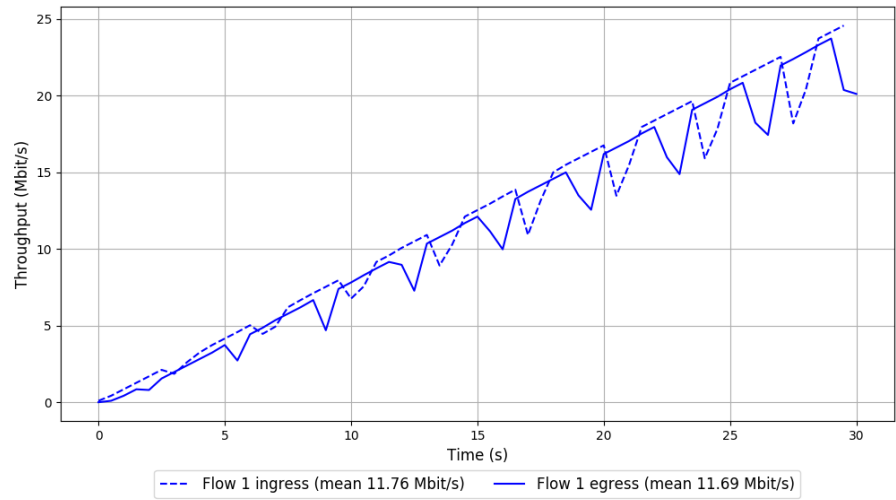
-- Flow 1:

Average throughput: 11.69 Mbit/s

95th percentile per-packet one-way delay: 92.910 ms

Loss rate: 1.17%

Run 5: Report of LEDBAT — Data Link

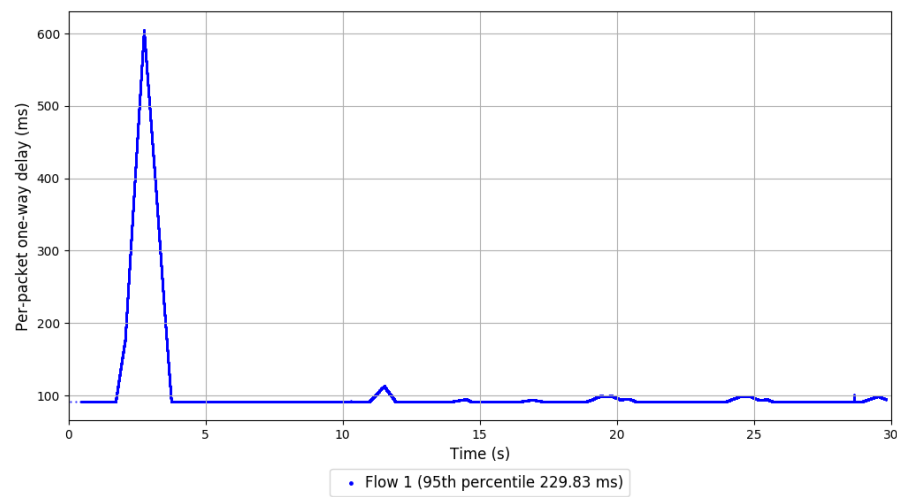
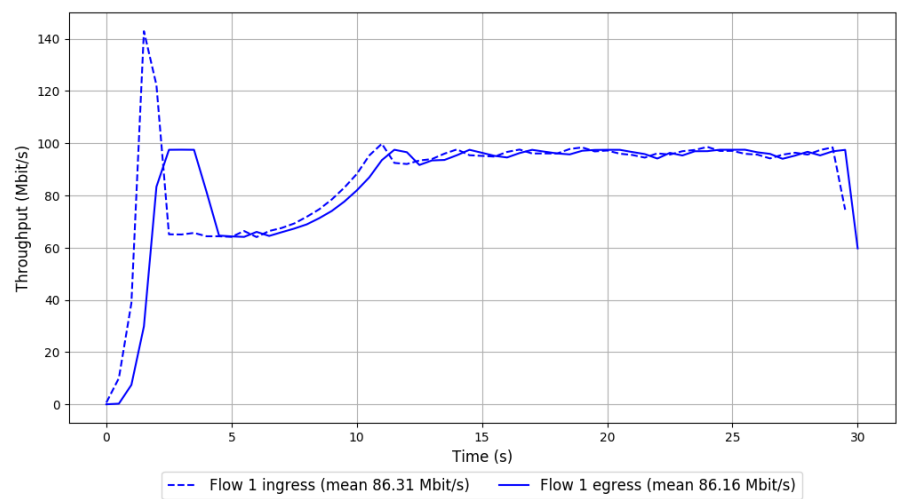


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-03-09 07:53:35
End at: 2019-03-09 07:54:05
Local clock offset: -3.917 ms
Remote clock offset: 0.553 ms

# Below is generated by plot.py at 2019-03-09 09:50:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.16 Mbit/s
95th percentile per-packet one-way delay: 229.828 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 86.16 Mbit/s
95th percentile per-packet one-way delay: 229.828 ms
Loss rate: 0.75%
```

Run 1: Report of PCC-Allegro — Data Link

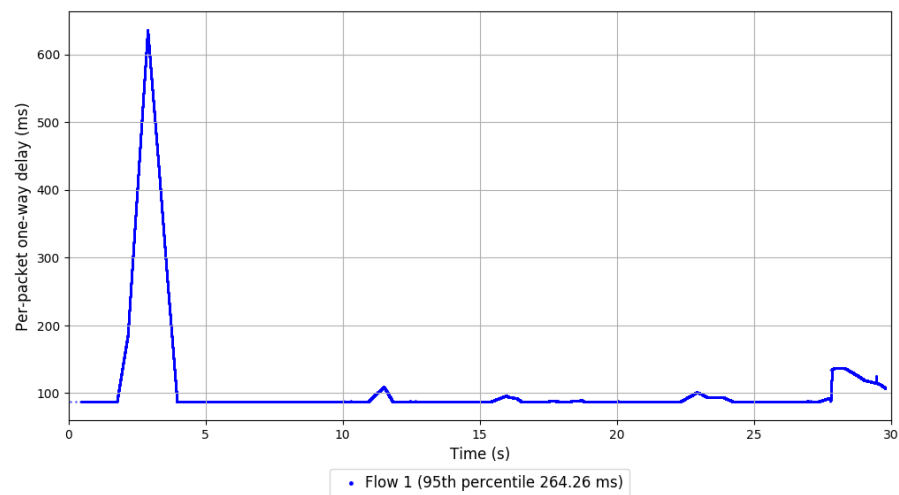
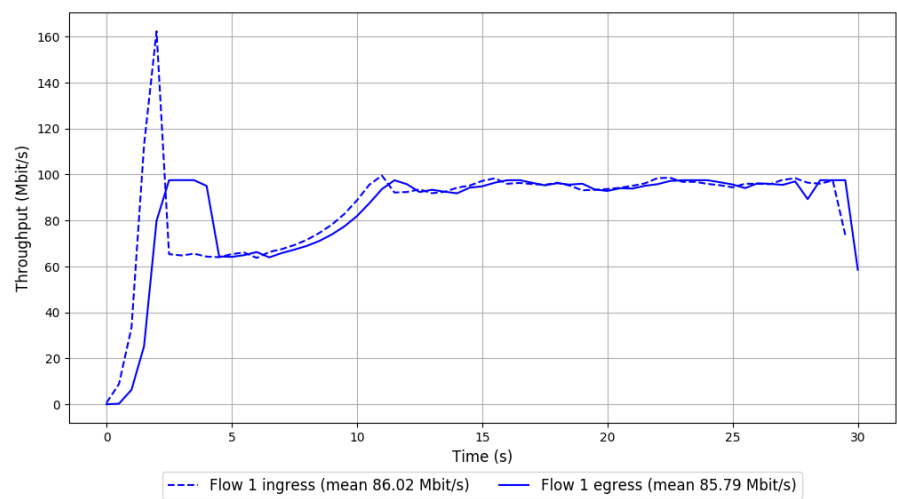


Run 2: Statistics of PCC-Allegro

Start at: 2019-03-09 08:18:35
End at: 2019-03-09 08:19:05
Local clock offset: -2.942 ms
Remote clock offset: 14.062 ms

Below is generated by plot.py at 2019-03-09 09:50:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.79 Mbit/s
95th percentile per-packet one-way delay: 264.257 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 85.79 Mbit/s
95th percentile per-packet one-way delay: 264.257 ms
Loss rate: 0.84%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-03-09 08:43:33

End at: 2019-03-09 08:44:03

Local clock offset: -7.042 ms

Remote clock offset: 17.31 ms

Below is generated by plot.py at 2019-03-09 09:50:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.42 Mbit/s

95th percentile per-packet one-way delay: 163.023 ms

Loss rate: 1.25%

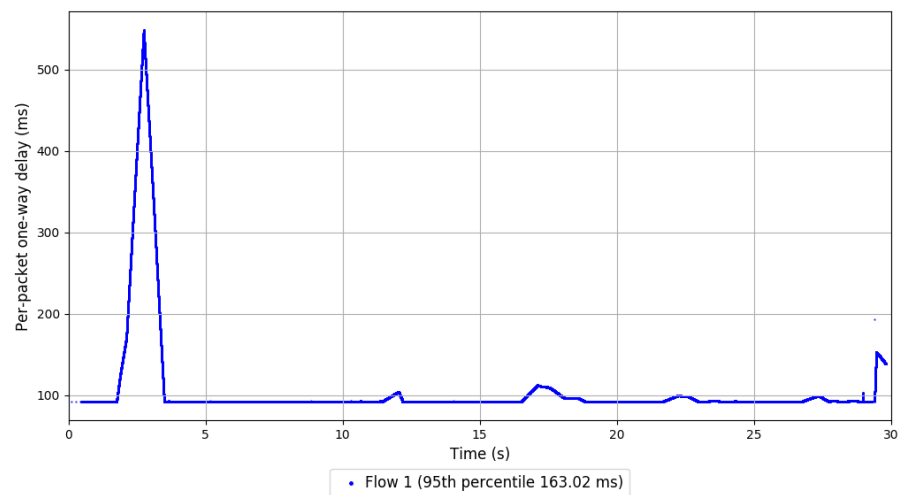
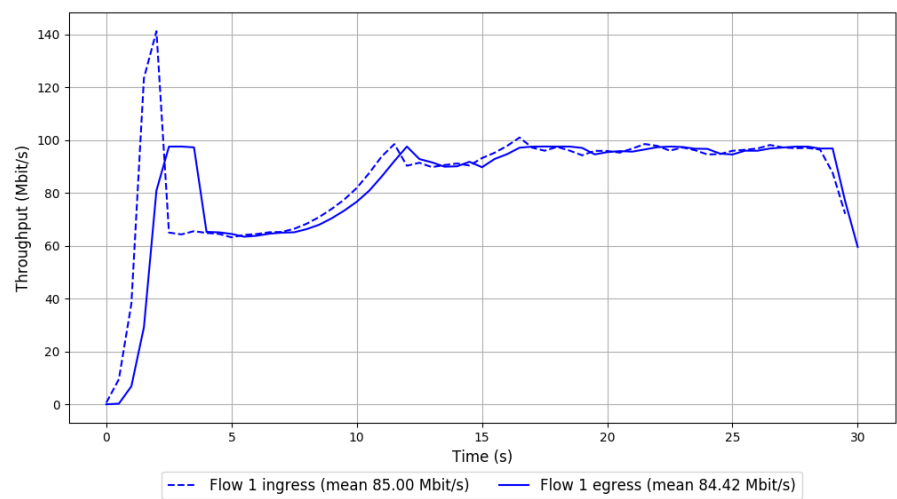
-- Flow 1:

Average throughput: 84.42 Mbit/s

95th percentile per-packet one-way delay: 163.023 ms

Loss rate: 1.25%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-03-09 09:08:32

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

Local clock offset: -7.605 ms

Remote clock offset: 1.337 ms

Below is generated by plot.py at 2019-03-09 09:50:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.65 Mbit/s

95th percentile per-packet one-way delay: 132.367 ms

Loss rate: 1.28%

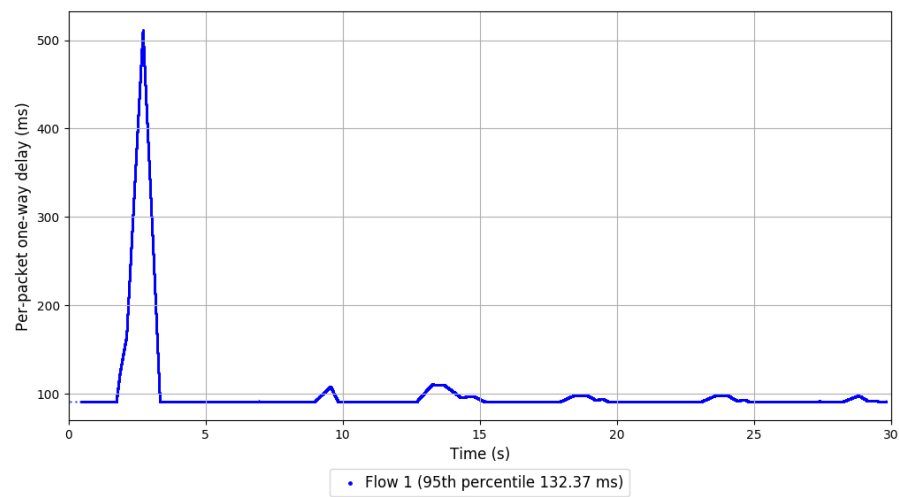
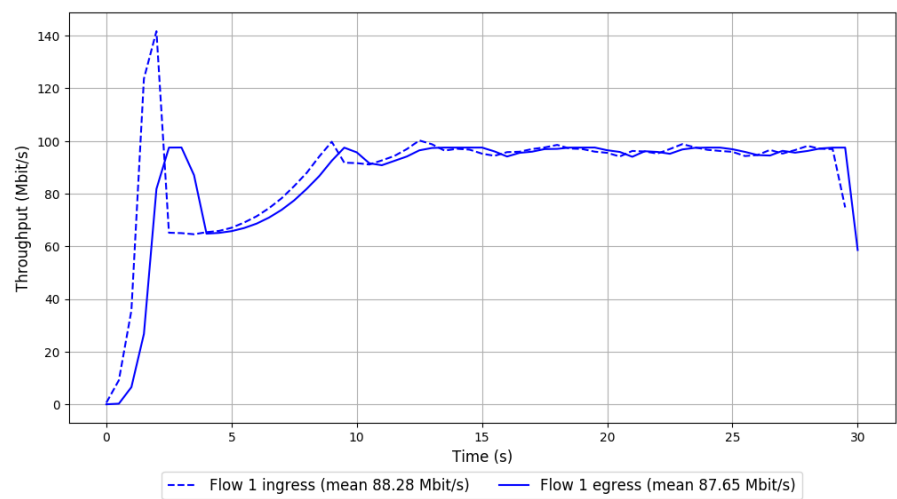
-- Flow 1:

Average throughput: 87.65 Mbit/s

95th percentile per-packet one-way delay: 132.367 ms

Loss rate: 1.28%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-03-09 09:33:30

End at: 2019-03-09 09:34:00

Local clock offset: -5.17 ms

Remote clock offset: 5.721 ms

Below is generated by plot.py at 2019-03-09 09:50:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.89 Mbit/s

95th percentile per-packet one-way delay: 257.827 ms

Loss rate: 0.72%

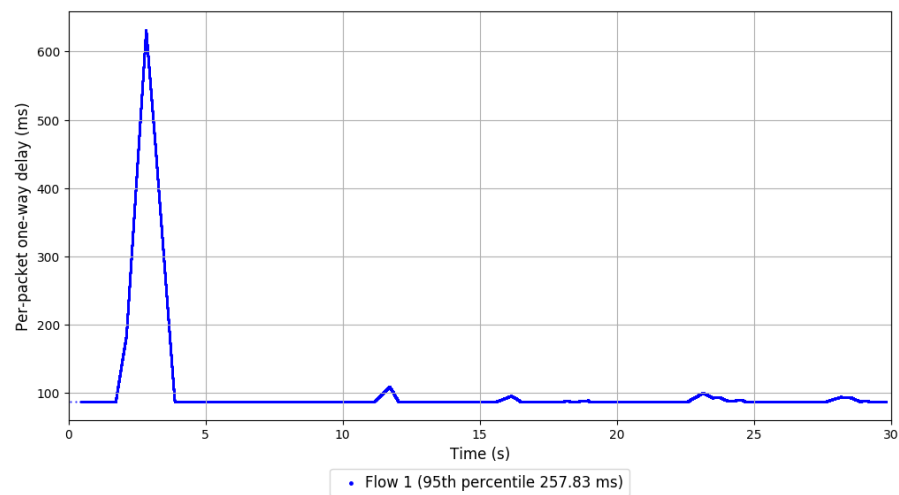
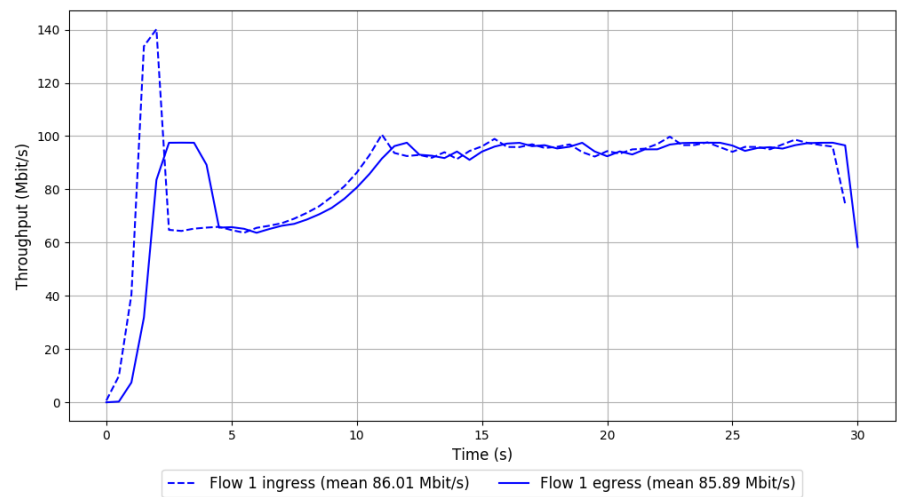
-- Flow 1:

Average throughput: 85.89 Mbit/s

95th percentile per-packet one-way delay: 257.827 ms

Loss rate: 0.72%

Run 5: Report of PCC-Allegro — Data Link

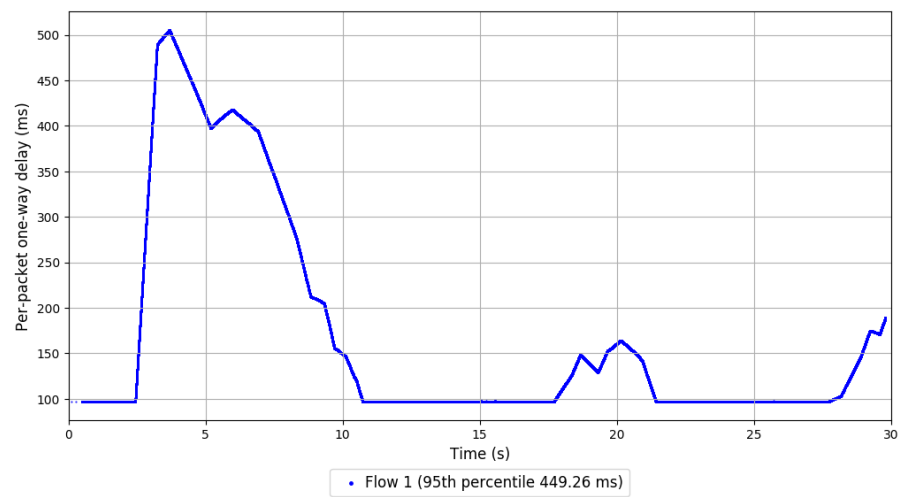
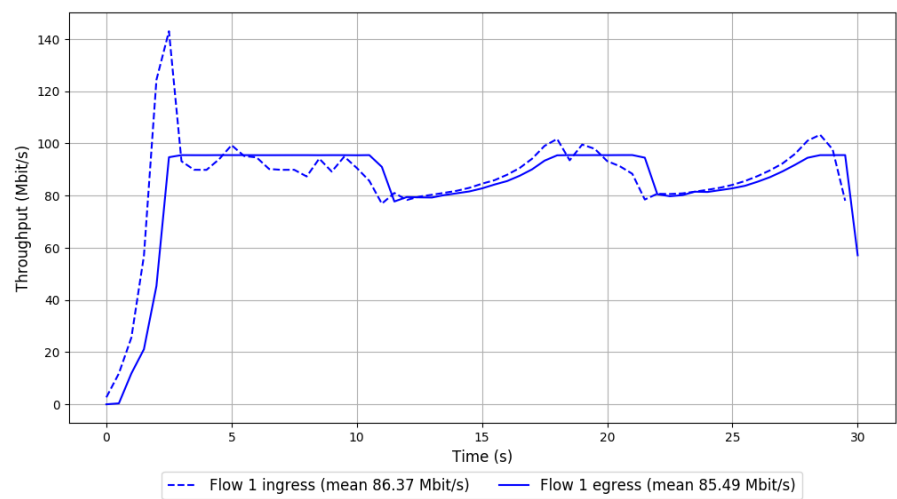



```
Run 1: Statistics of PCC-Expr

Start at: 2019-03-09 07:46:22
End at: 2019-03-09 07:46:52
Local clock offset: -6.444 ms
Remote clock offset: 0.969 ms

# Below is generated by plot.py at 2019-03-09 09:51:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.49 Mbit/s
95th percentile per-packet one-way delay: 449.257 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 85.49 Mbit/s
95th percentile per-packet one-way delay: 449.257 ms
Loss rate: 1.62%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-03-09 08:11:22

End at: 2019-03-09 08:11:52

Local clock offset: -1.458 ms

Remote clock offset: 2.113 ms

Below is generated by plot.py at 2019-03-09 09:51:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.94 Mbit/s

95th percentile per-packet one-way delay: 426.492 ms

Loss rate: 1.14%

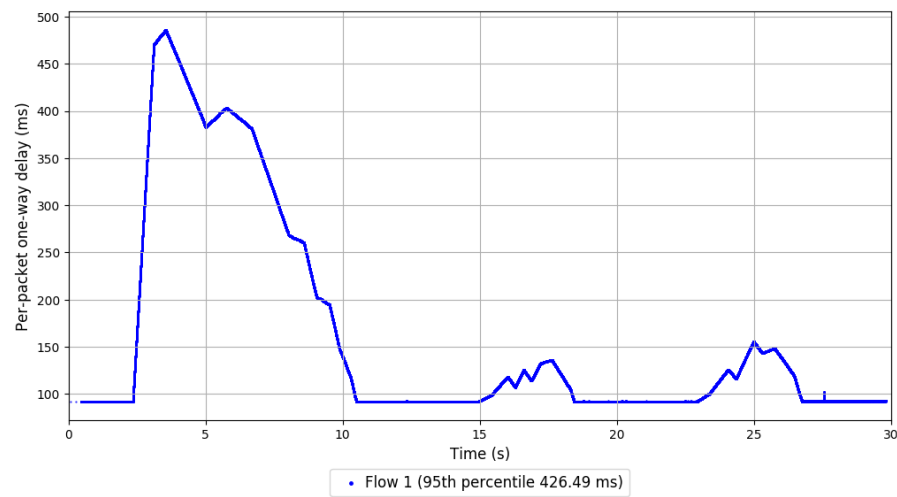
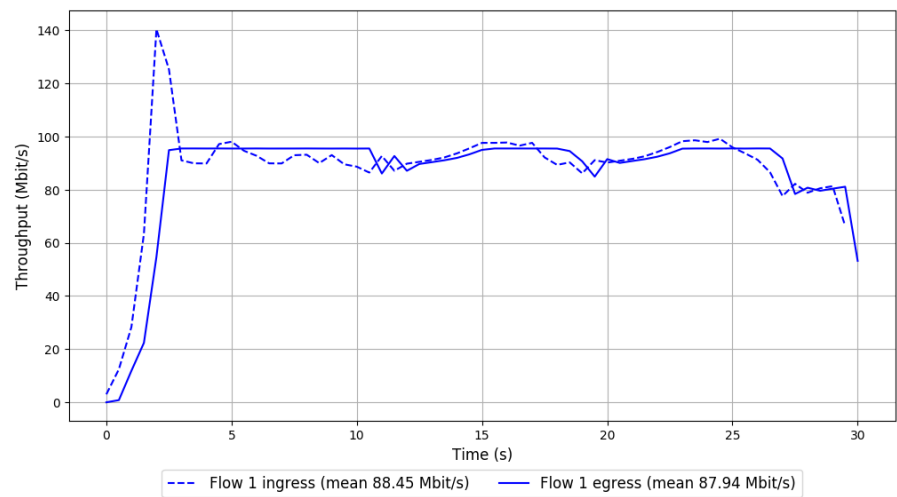
-- Flow 1:

Average throughput: 87.94 Mbit/s

95th percentile per-packet one-way delay: 426.492 ms

Loss rate: 1.14%

Run 2: Report of PCC-Expr — Data Link

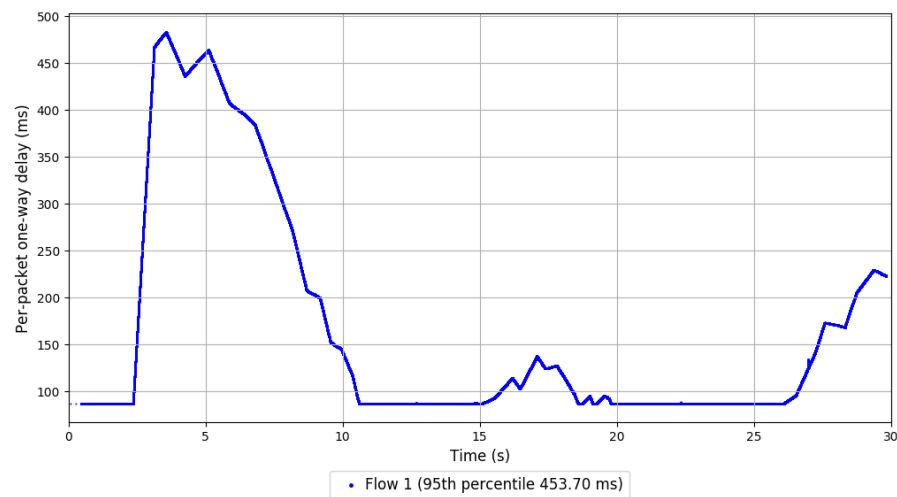
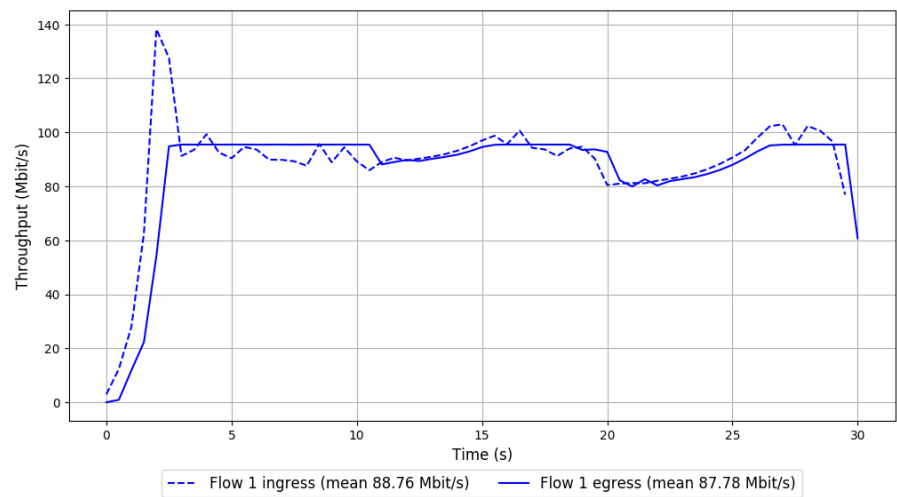


Run 3: Statistics of PCC-Expr

Start at: 2019-03-09 08:36:20
End at: 2019-03-09 08:36:50
Local clock offset: -7.339 ms
Remote clock offset: 19.433 ms

Below is generated by plot.py at 2019-03-09 09:51:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.78 Mbit/s
95th percentile per-packet one-way delay: 453.703 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 87.78 Mbit/s
95th percentile per-packet one-way delay: 453.703 ms
Loss rate: 1.67%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-03-09 09:01:19

End at: 2019-03-09 09:01:49

Local clock offset: -7.525 ms

Remote clock offset: 7.834 ms

Below is generated by plot.py at 2019-03-09 09:52:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.93 Mbit/s

95th percentile per-packet one-way delay: 373.220 ms

Loss rate: 1.62%

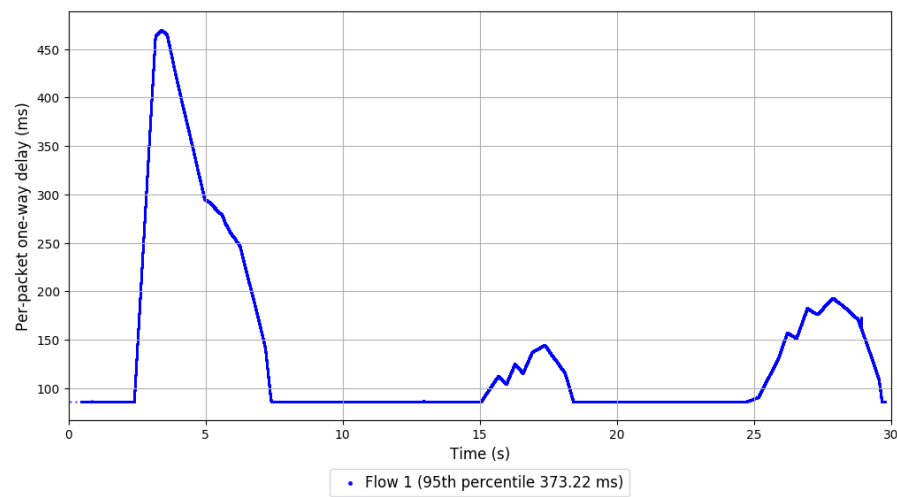
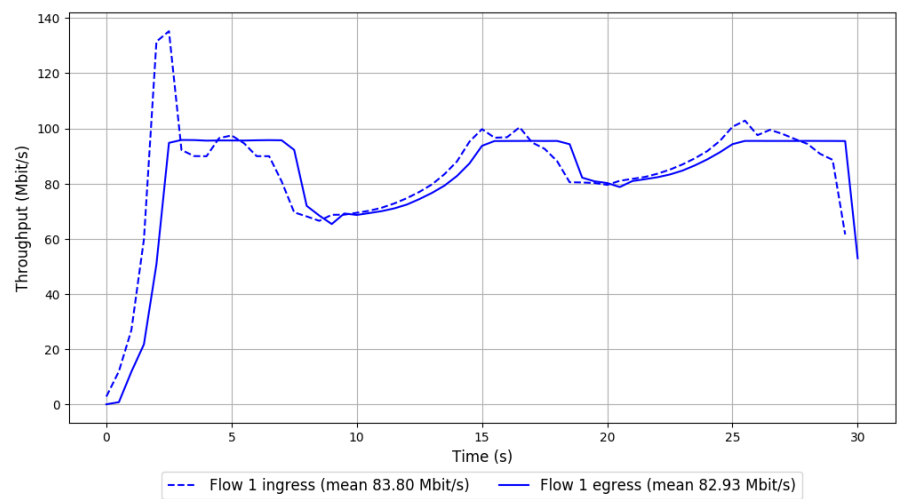
-- Flow 1:

Average throughput: 82.93 Mbit/s

95th percentile per-packet one-way delay: 373.220 ms

Loss rate: 1.62%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-03-09 09:26:17

End at: 2019-03-09 09:26:47

Local clock offset: -5.576 ms

Remote clock offset: 4.939 ms

Below is generated by plot.py at 2019-03-09 09:52:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.03 Mbit/s

95th percentile per-packet one-way delay: 459.963 ms

Loss rate: 1.56%

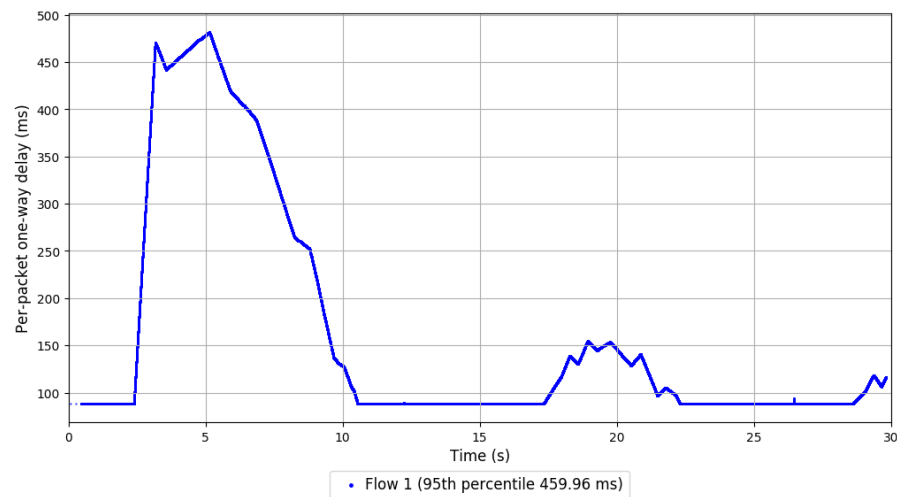
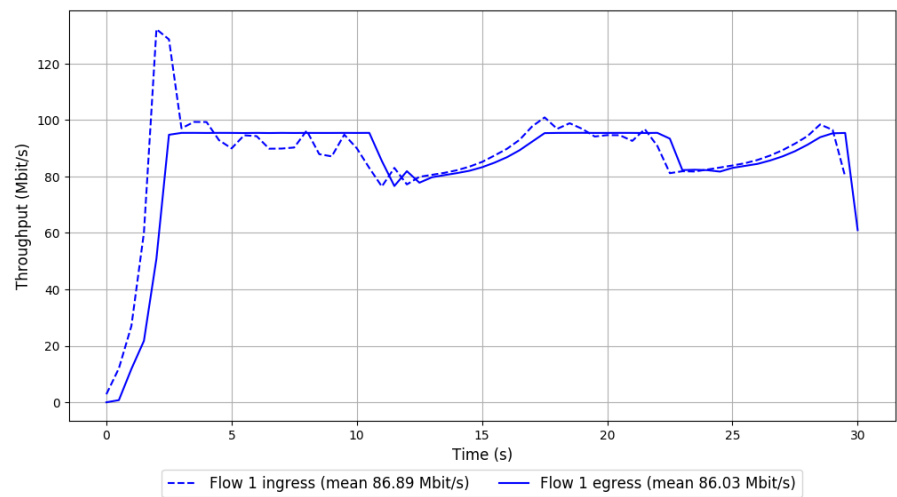
-- Flow 1:

Average throughput: 86.03 Mbit/s

95th percentile per-packet one-way delay: 459.963 ms

Loss rate: 1.56%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-03-09 07:40:30

End at: 2019-03-09 07:41:00

Local clock offset: -6.639 ms

Remote clock offset: 3.823 ms

Below is generated by plot.py at 2019-03-09 09:52:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.29 Mbit/s

95th percentile per-packet one-way delay: 94.569 ms

Loss rate: 0.88%

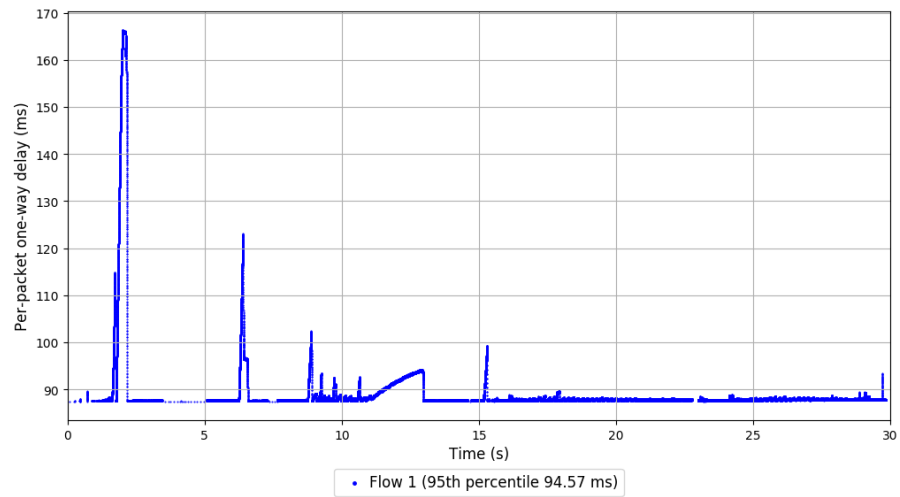
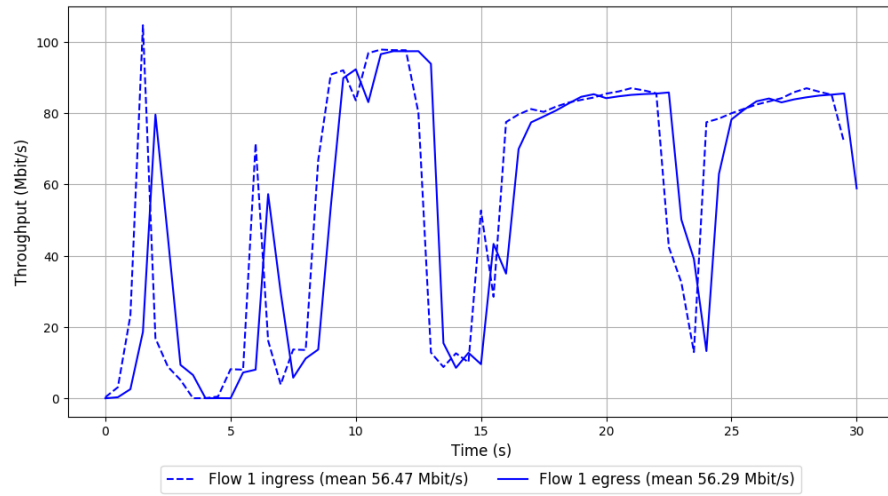
-- Flow 1:

Average throughput: 56.29 Mbit/s

95th percentile per-packet one-way delay: 94.569 ms

Loss rate: 0.88%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-03-09 08:05:29

End at: 2019-03-09 08:05:59

Local clock offset: -1.979 ms

Remote clock offset: 1.259 ms

Below is generated by plot.py at 2019-03-09 09:52:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.18 Mbit/s

95th percentile per-packet one-way delay: 99.461 ms

Loss rate: 0.77%

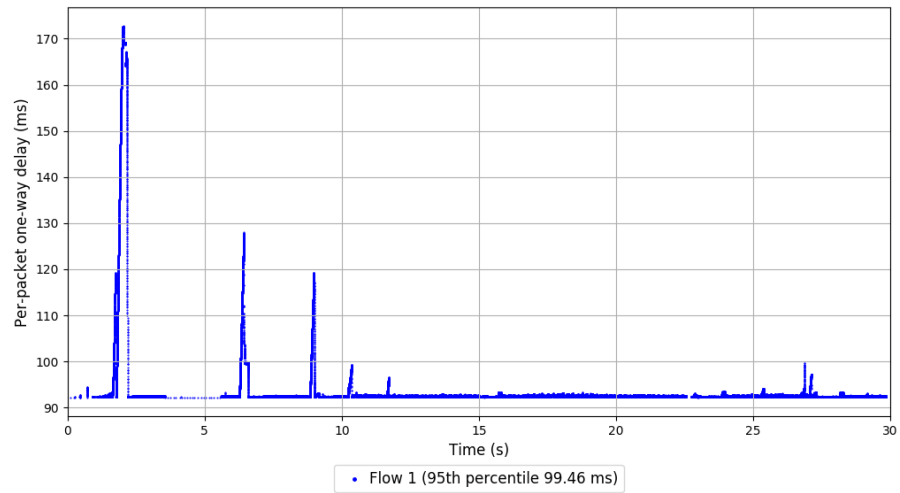
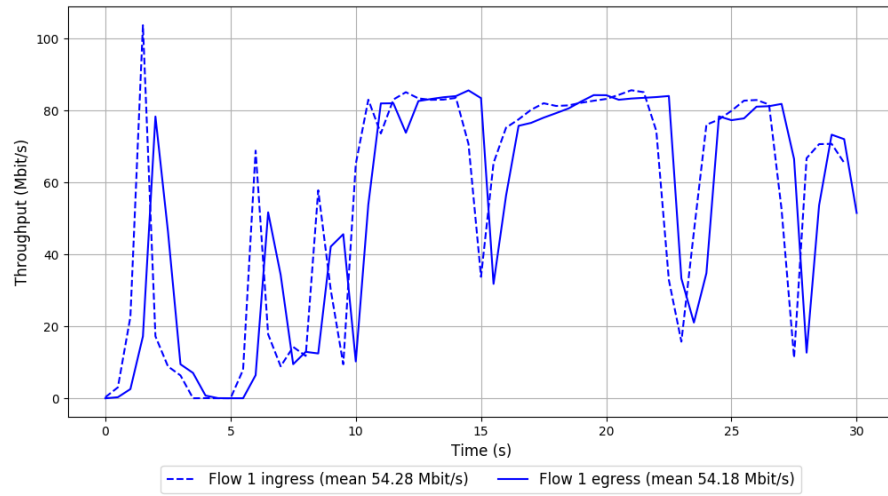
-- Flow 1:

Average throughput: 54.18 Mbit/s

95th percentile per-packet one-way delay: 99.461 ms

Loss rate: 0.77%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-03-09 08:30:28

End at: 2019-03-09 08:30:58

Local clock offset: -6.732 ms

Remote clock offset: 12.951 ms

Below is generated by plot.py at 2019-03-09 09:52:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.27 Mbit/s

95th percentile per-packet one-way delay: 97.769 ms

Loss rate: 0.84%

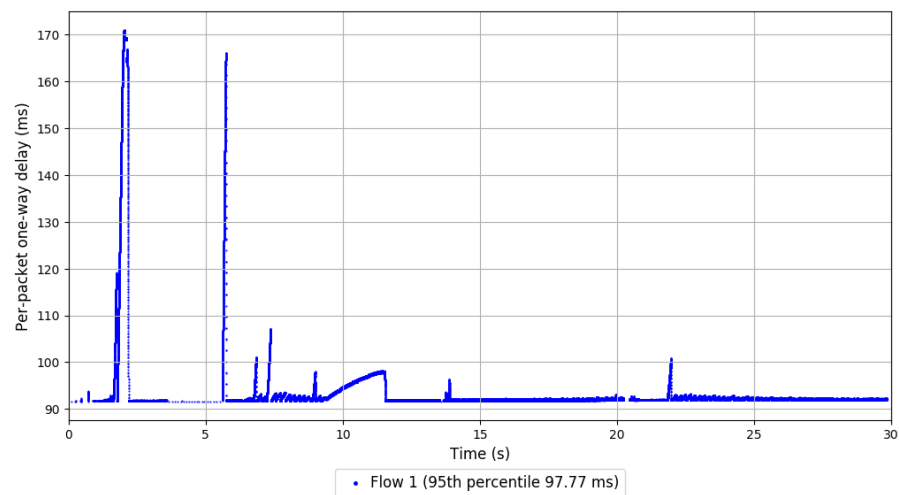
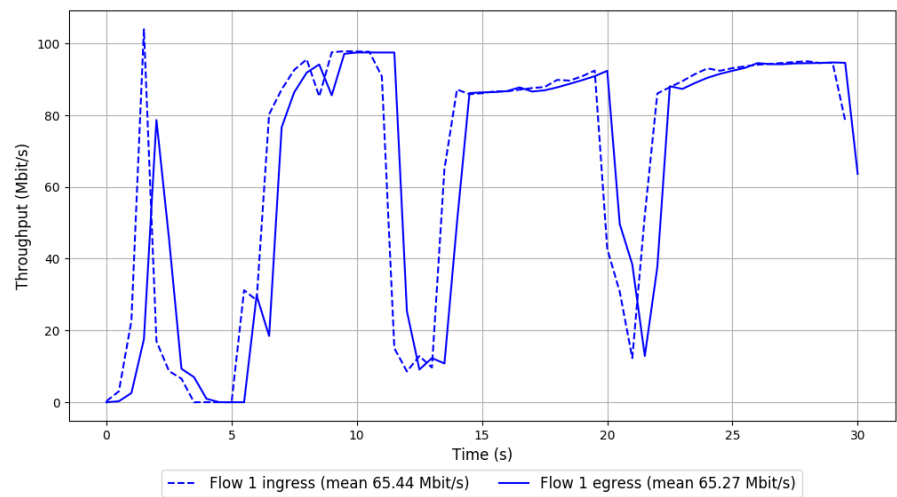
-- Flow 1:

Average throughput: 65.27 Mbit/s

95th percentile per-packet one-way delay: 97.769 ms

Loss rate: 0.84%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-03-09 08:55:27

End at: 2019-03-09 08:55:57

Local clock offset: -7.524 ms

Remote clock offset: 5.485 ms

Below is generated by plot.py at 2019-03-09 09:52:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.85 Mbit/s

95th percentile per-packet one-way delay: 100.908 ms

Loss rate: 0.87%

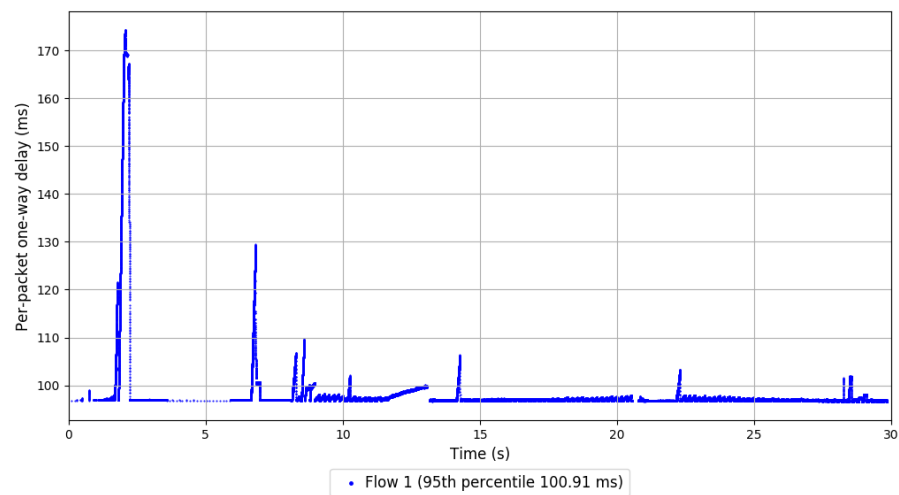
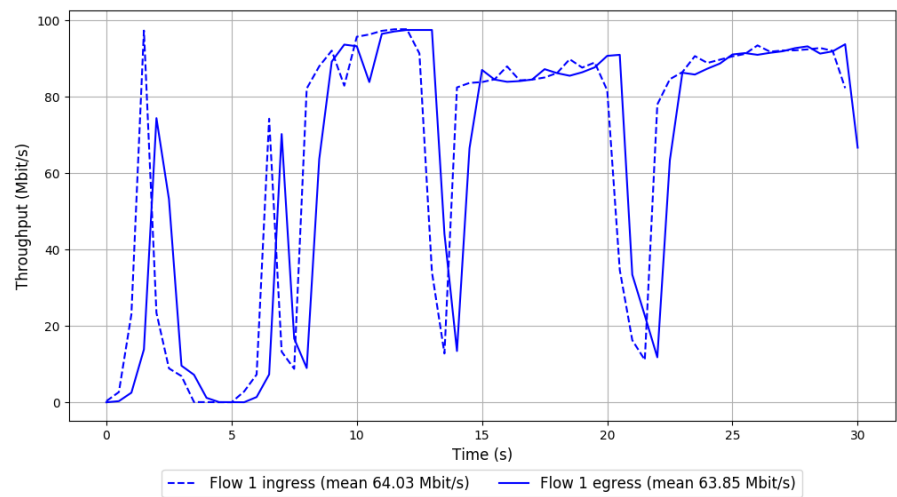
-- Flow 1:

Average throughput: 63.85 Mbit/s

95th percentile per-packet one-way delay: 100.908 ms

Loss rate: 0.87%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-03-09 09:20:25

End at: 2019-03-09 09:20:55

Local clock offset: -6.72 ms

Remote clock offset: -0.831 ms

Below is generated by plot.py at 2019-03-09 09:52:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.00 Mbit/s

95th percentile per-packet one-way delay: 97.922 ms

Loss rate: 0.81%

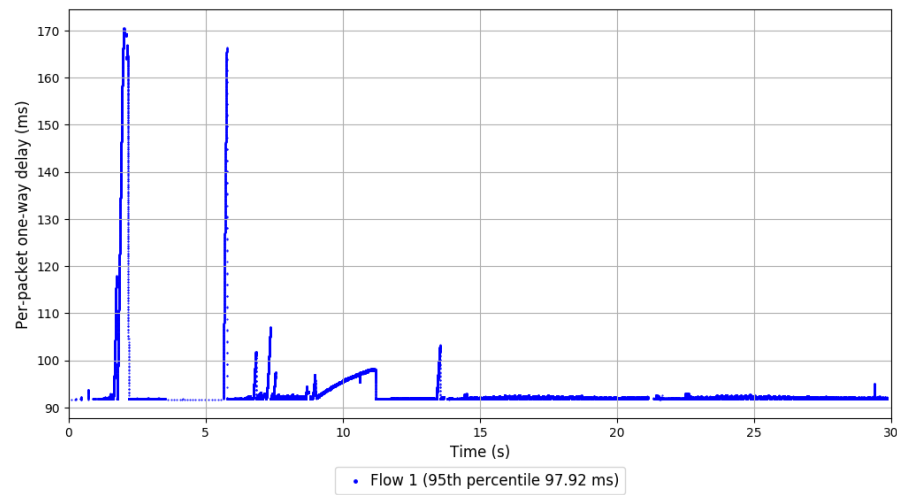
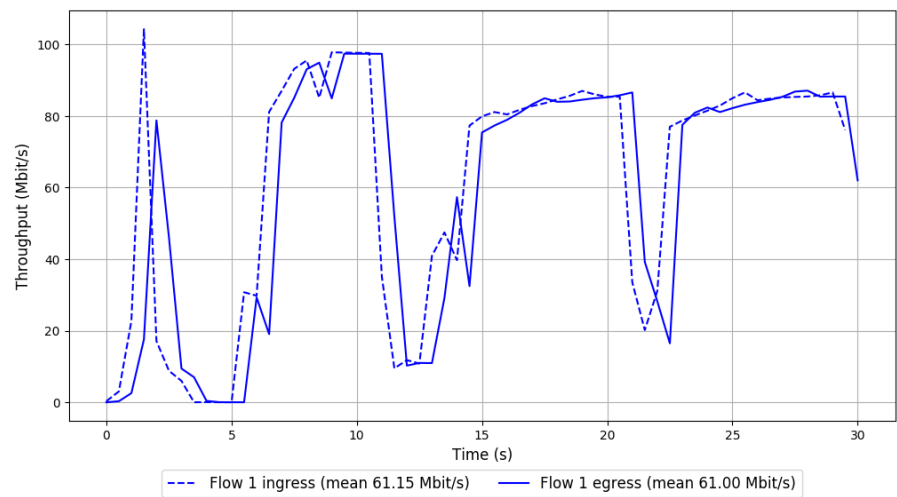
-- Flow 1:

Average throughput: 61.00 Mbit/s

95th percentile per-packet one-way delay: 97.922 ms

Loss rate: 0.81%

Run 5: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2019-03-09 07:57:09

End at: 2019-03-09 07:57:39

Local clock offset: -3.13 ms

Remote clock offset: 7.377 ms

Below is generated by plot.py at 2019-03-09 09:52:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.868 ms

Loss rate: 0.51%

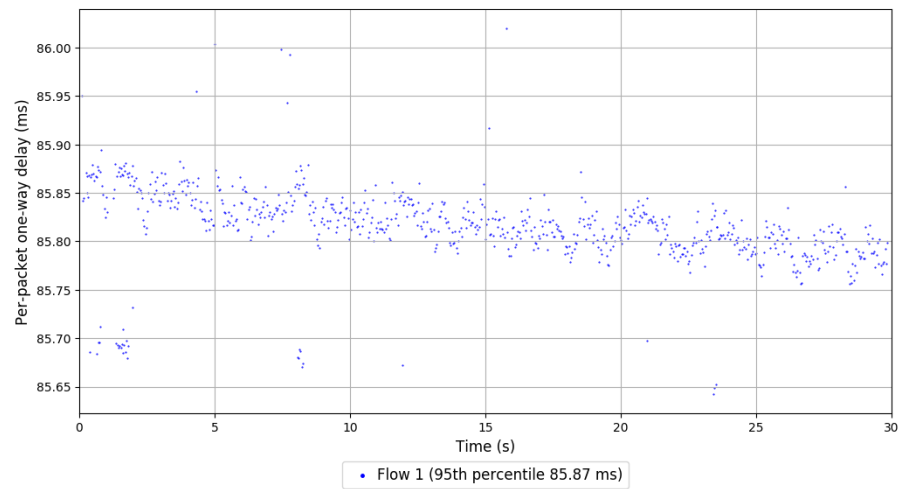
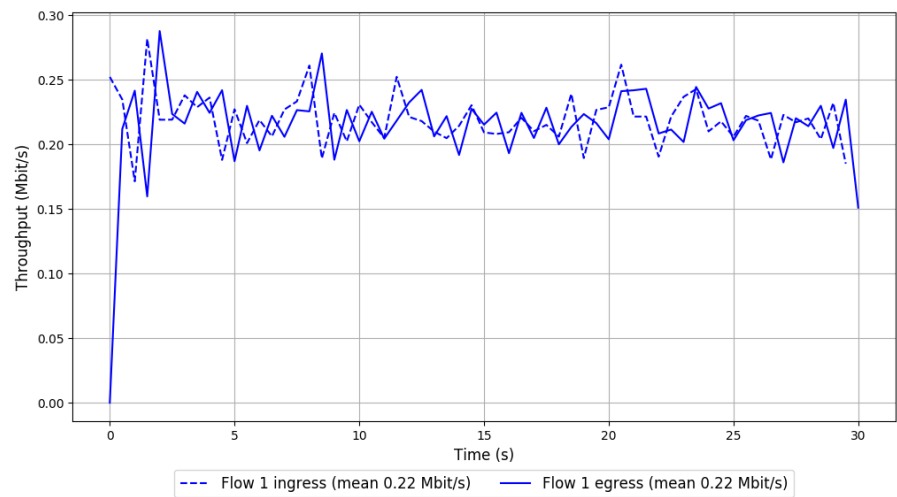
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.868 ms

Loss rate: 0.51%

Run 1: Report of SReAM — Data Link

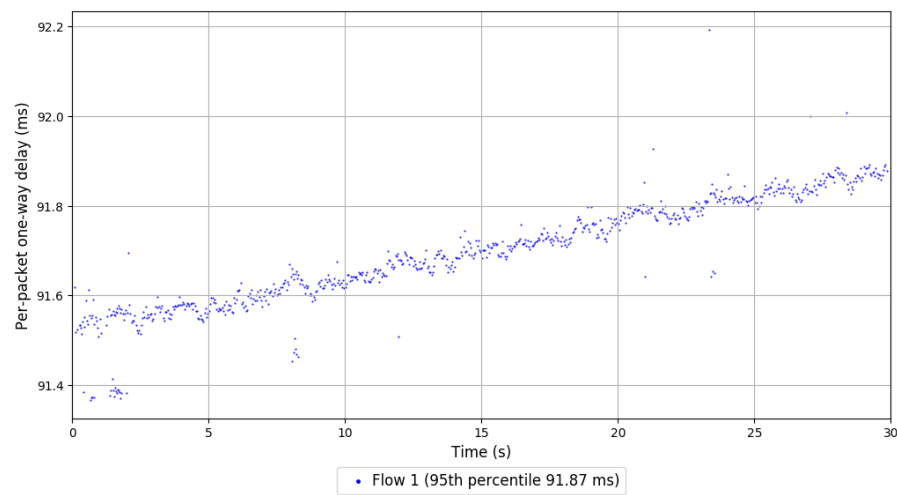
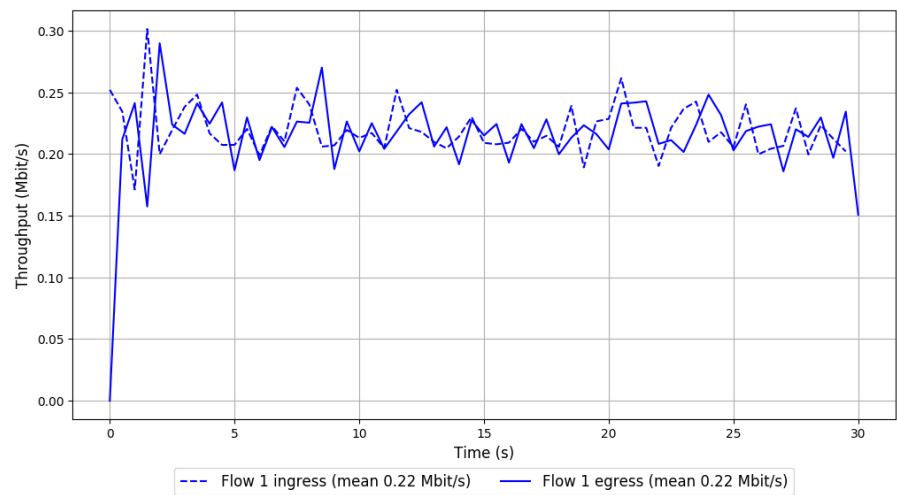


Run 2: Statistics of SCReAM

Start at: 2019-03-09 08:22:09
End at: 2019-03-09 08:22:39
Local clock offset: -4.989 ms
Remote clock offset: 10.908 ms

Below is generated by plot.py at 2019-03-09 09:52:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 91.867 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 91.867 ms
Loss rate: 0.64%

Run 2: Report of SReAM — Data Link

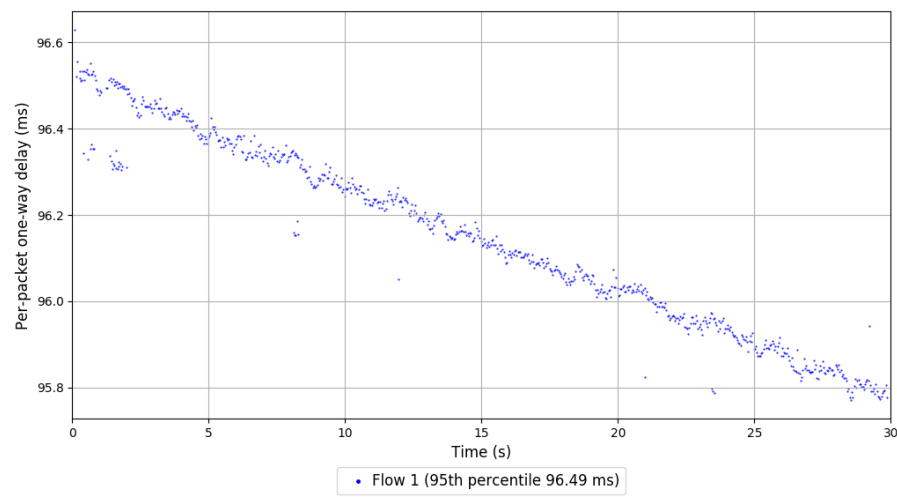
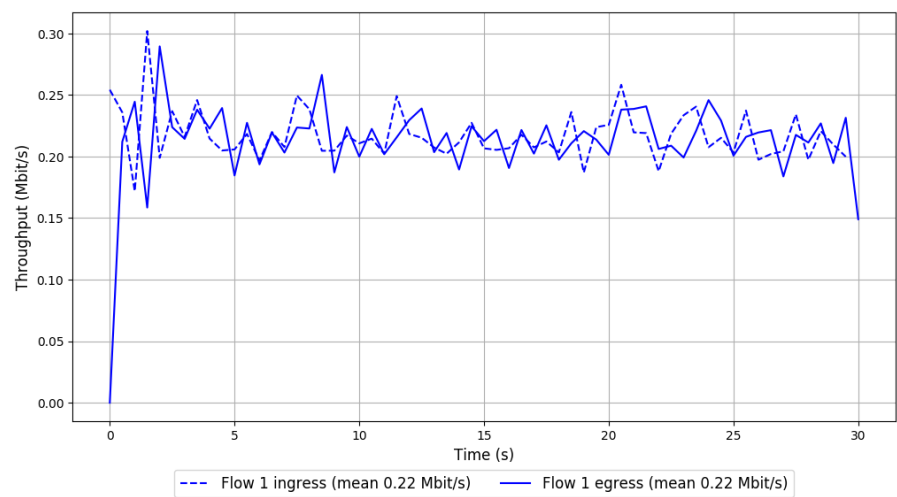


Run 3: Statistics of SCReAM

Start at: 2019-03-09 08:47:08
End at: 2019-03-09 08:47:38
Local clock offset: -7.695 ms
Remote clock offset: 13.907 ms

Below is generated by plot.py at 2019-03-09 09:52:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 96.491 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 96.491 ms
Loss rate: 0.64%

Run 3: Report of SReAM — Data Link

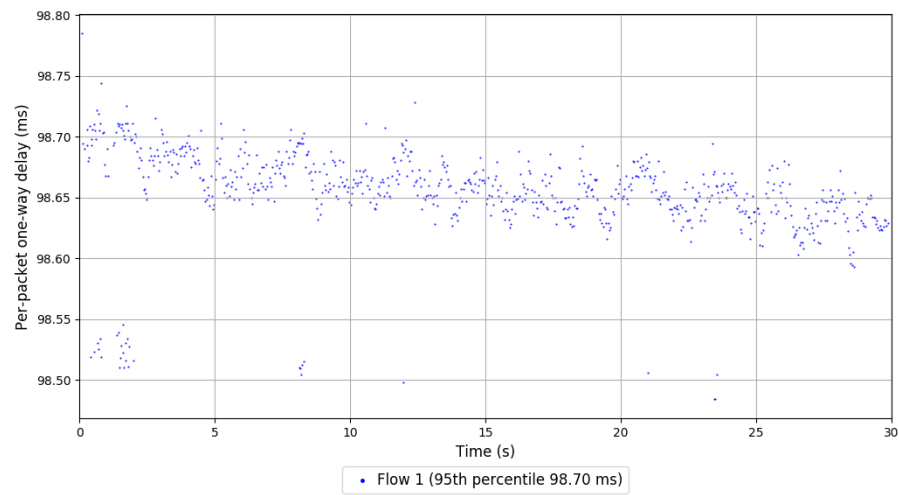
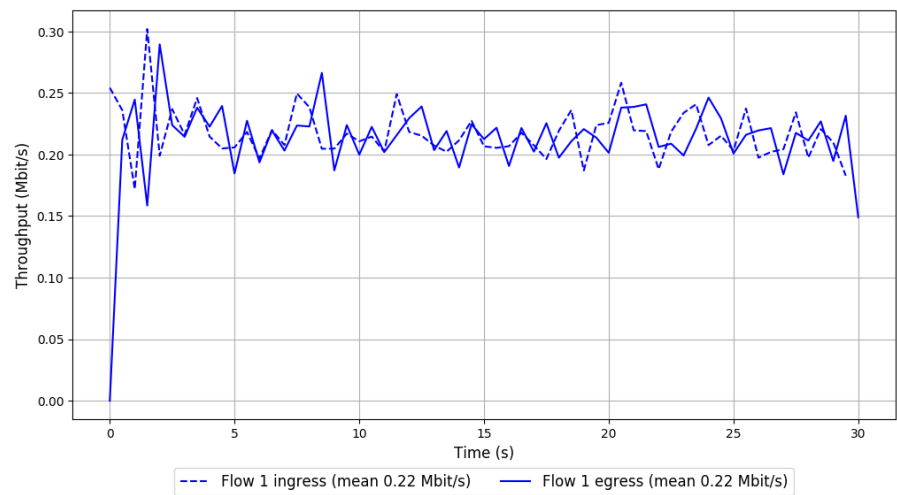


Run 4: Statistics of SCReAM

Start at: 2019-03-09 09:12:06
End at: 2019-03-09 09:12:36
Local clock offset: -6.955 ms
Remote clock offset: -0.266 ms

Below is generated by plot.py at 2019-03-09 09:52:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 98.701 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 98.701 ms
Loss rate: 0.51%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-03-09 09:37:04

End at: 2019-03-09 09:37:34

Local clock offset: -5.104 ms

Remote clock offset: 0.69 ms

Below is generated by plot.py at 2019-03-09 09:52:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 93.249 ms

Loss rate: 0.51%

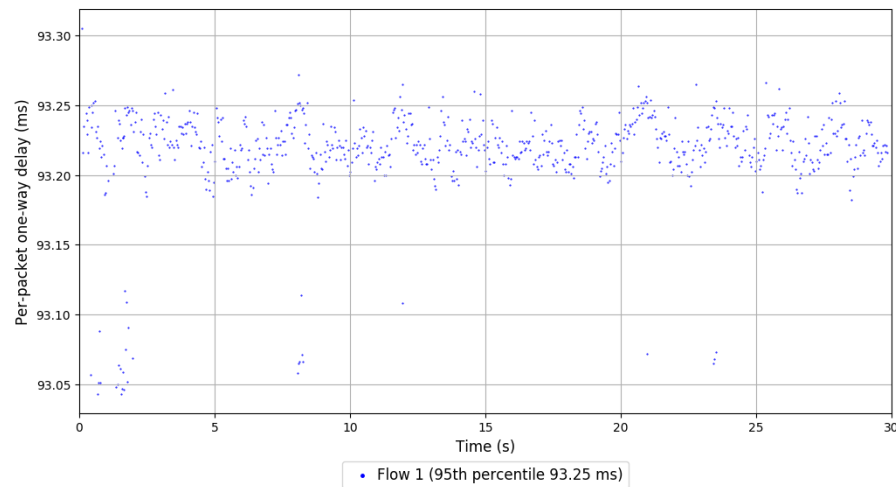
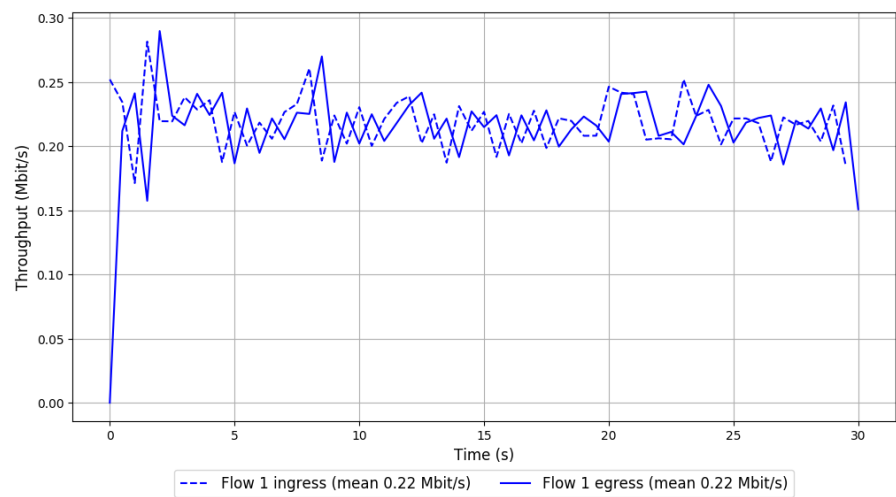
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 93.249 ms

Loss rate: 0.51%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-03-09 07:41:41

End at: 2019-03-09 07:42:11

Local clock offset: -7.405 ms

Remote clock offset: 4.194 ms

Below is generated by plot.py at 2019-03-09 09:52:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 92.120 ms

Loss rate: 0.79%

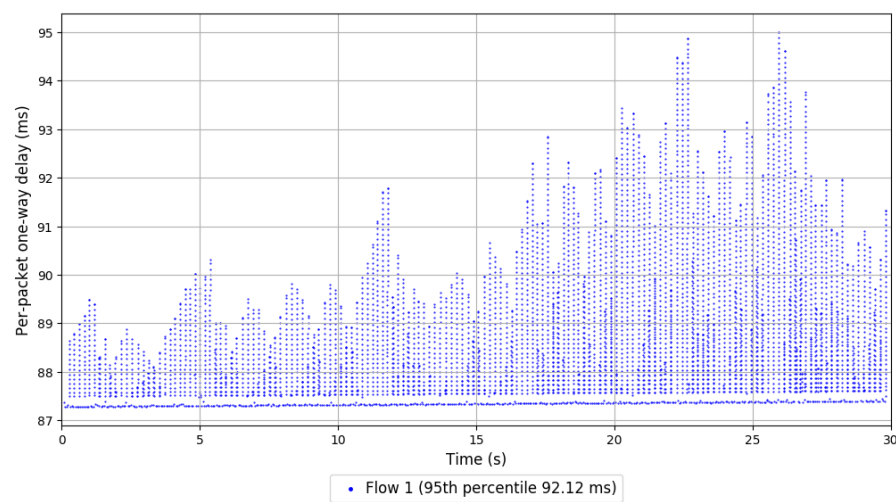
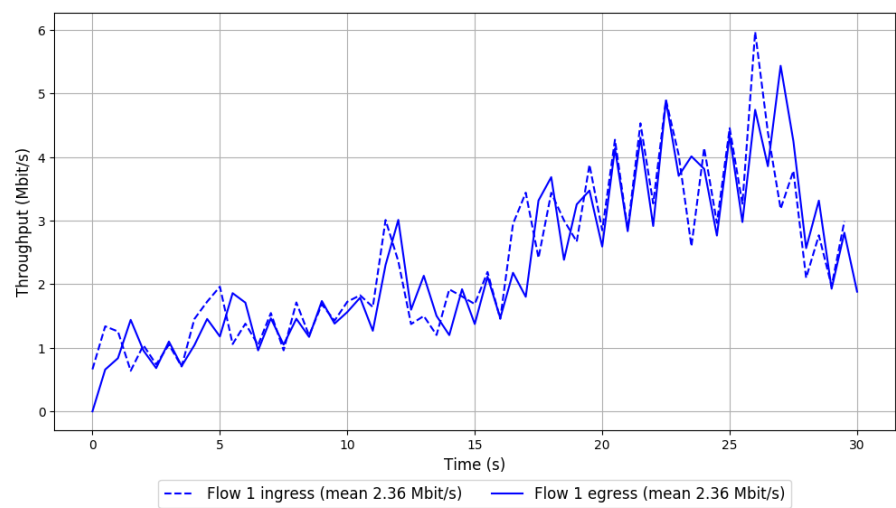
-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 92.120 ms

Loss rate: 0.79%

Run 1: Report of Sprout — Data Link

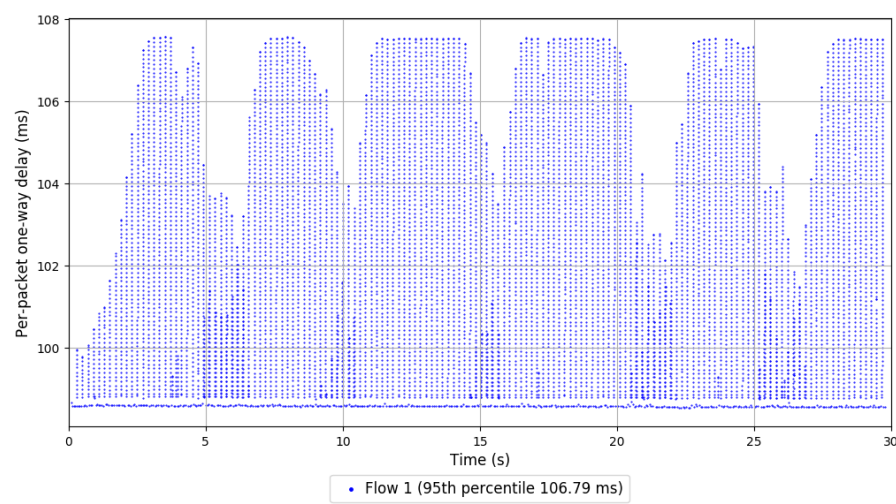
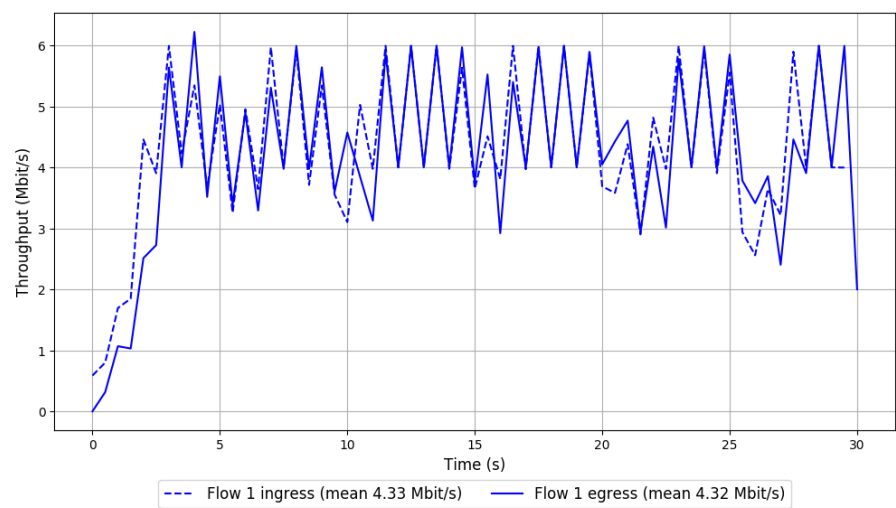


Run 2: Statistics of Sprout

Start at: 2019-03-09 08:06:39
End at: 2019-03-09 08:07:09
Local clock offset: -1.079 ms
Remote clock offset: 1.299 ms

Below is generated by plot.py at 2019-03-09 09:52:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: 106.794 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: 106.794 ms
Loss rate: 0.77%

Run 2: Report of Sprout — Data Link

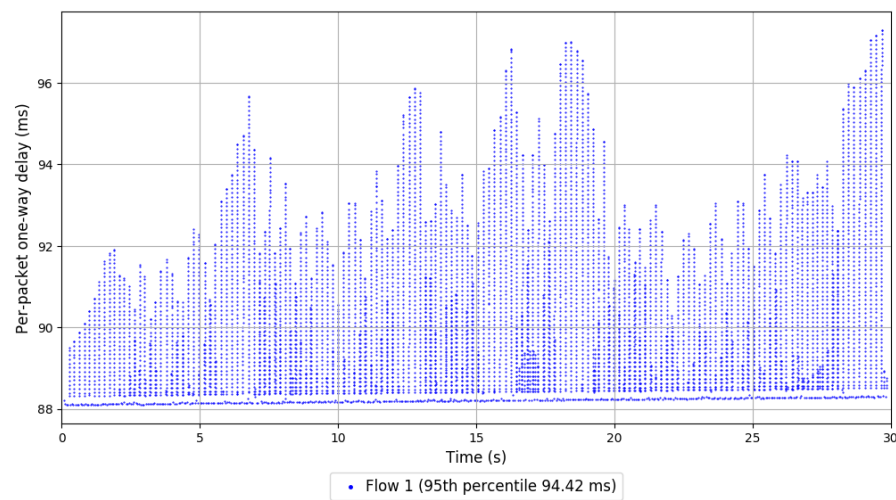
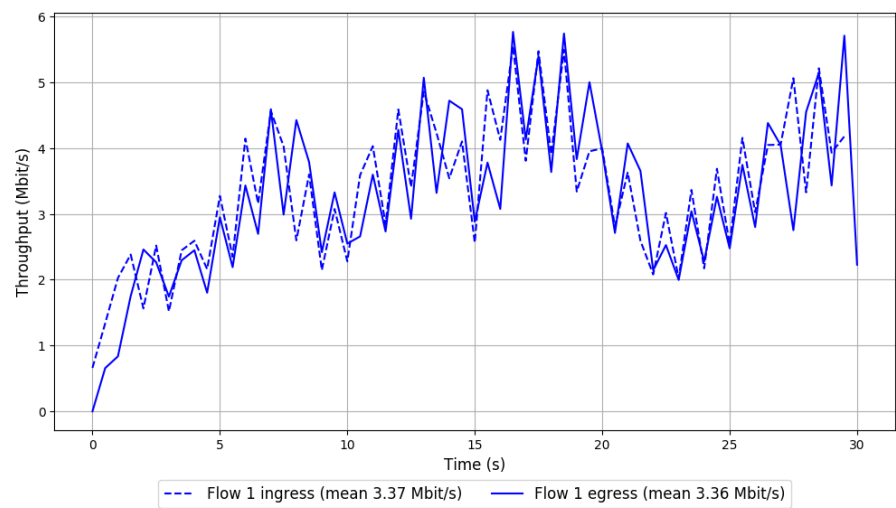


Run 3: Statistics of Sprout

Start at: 2019-03-09 08:31:39
End at: 2019-03-09 08:32:09
Local clock offset: -6.15 ms
Remote clock offset: 18.185 ms

Below is generated by plot.py at 2019-03-09 09:52:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.36 Mbit/s
95th percentile per-packet one-way delay: 94.415 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 3.36 Mbit/s
95th percentile per-packet one-way delay: 94.415 ms
Loss rate: 0.97%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-03-09 08:56:38

End at: 2019-03-09 08:57:08

Local clock offset: -7.528 ms

Remote clock offset: 9.018 ms

Below is generated by plot.py at 2019-03-09 09:52:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.19 Mbit/s

95th percentile per-packet one-way delay: 100.279 ms

Loss rate: 0.59%

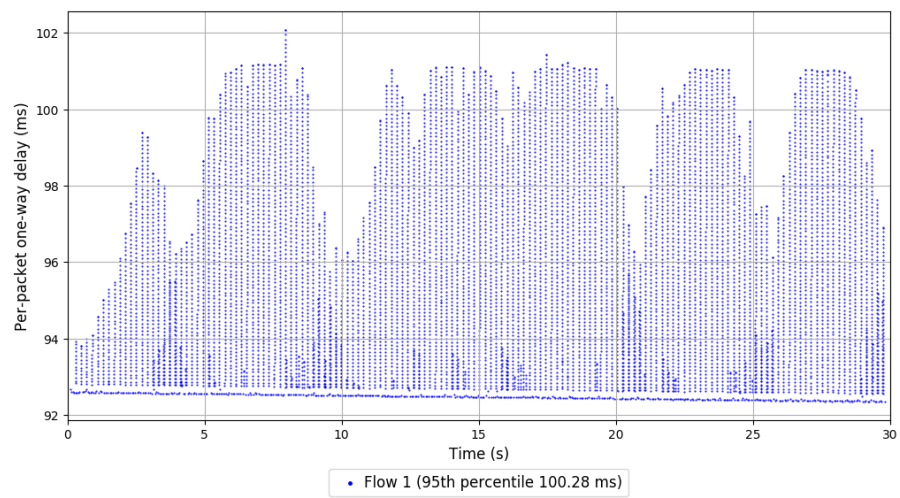
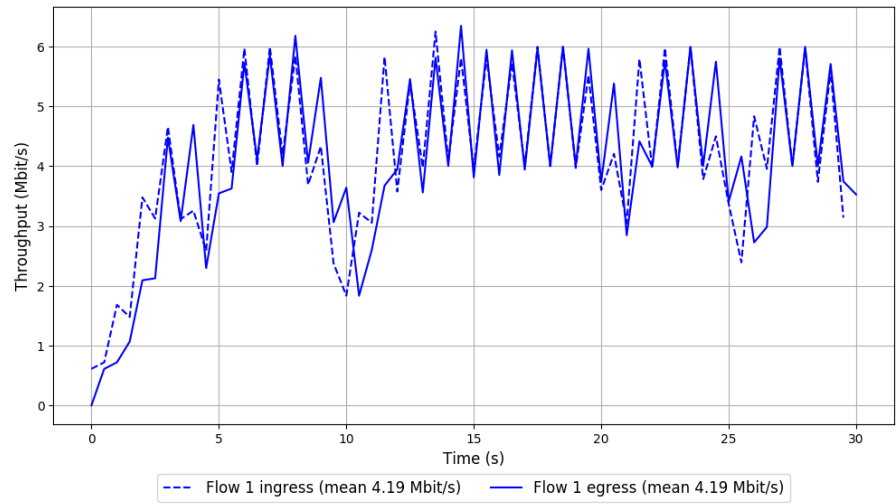
-- Flow 1:

Average throughput: 4.19 Mbit/s

95th percentile per-packet one-way delay: 100.279 ms

Loss rate: 0.59%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-03-09 09:21:36

End at: 2019-03-09 09:22:06

Local clock offset: -6.628 ms

Remote clock offset: 0.733 ms

Below is generated by plot.py at 2019-03-09 09:52:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.52 Mbit/s

95th percentile per-packet one-way delay: 96.301 ms

Loss rate: 1.06%

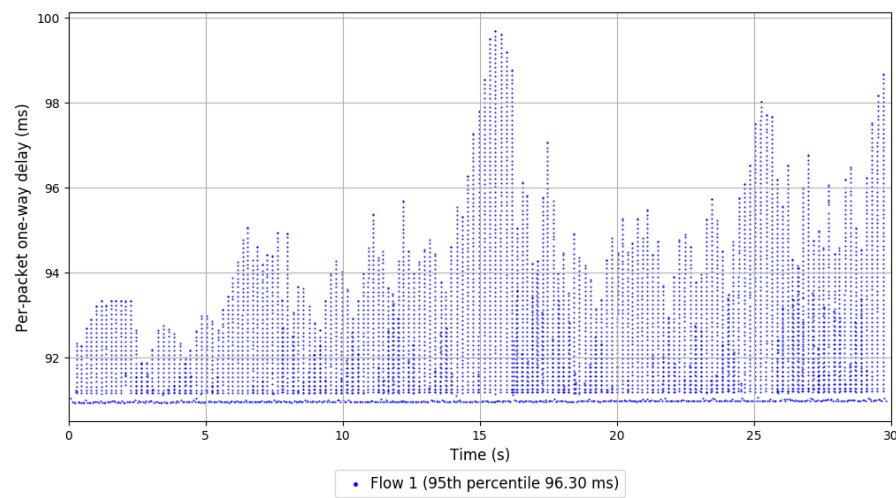
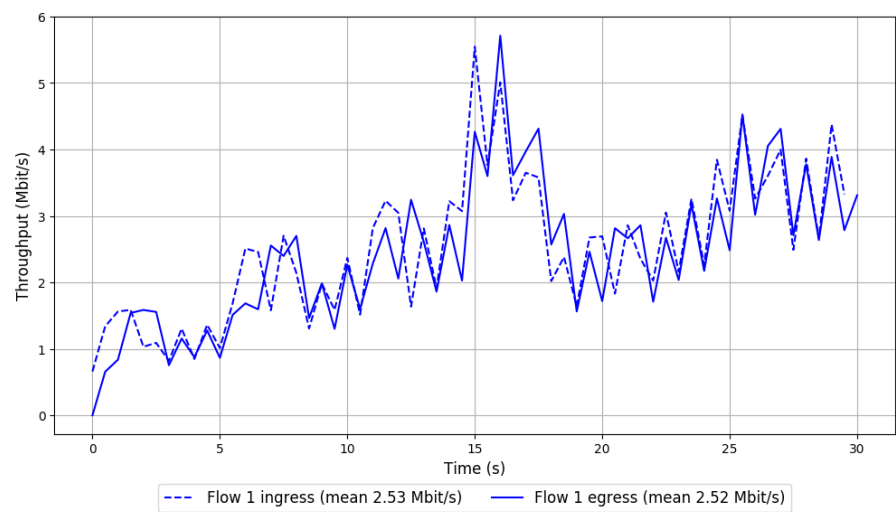
-- Flow 1:

Average throughput: 2.52 Mbit/s

95th percentile per-packet one-way delay: 96.301 ms

Loss rate: 1.06%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-03-09 07:47:36

End at: 2019-03-09 07:48:06

Local clock offset: -5.702 ms

Remote clock offset: 5.203 ms

Below is generated by plot.py at 2019-03-09 09:53:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.22 Mbit/s

95th percentile per-packet one-way delay: 114.278 ms

Loss rate: 0.59%

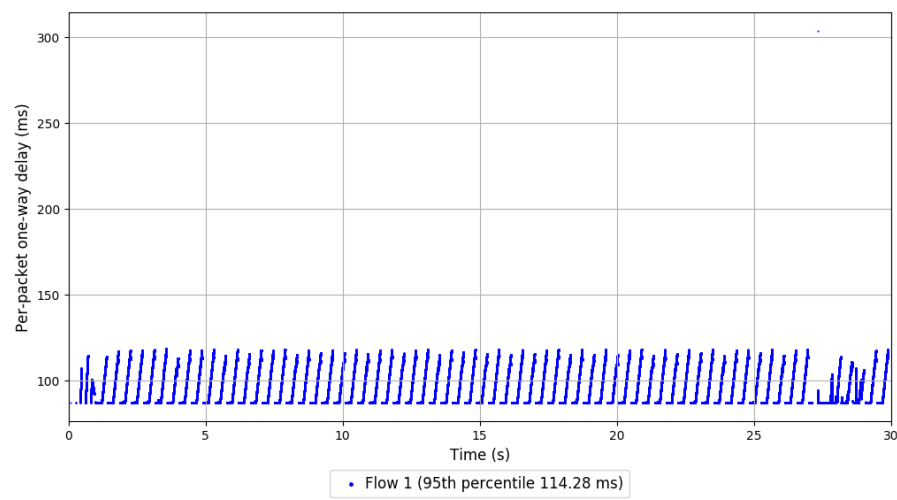
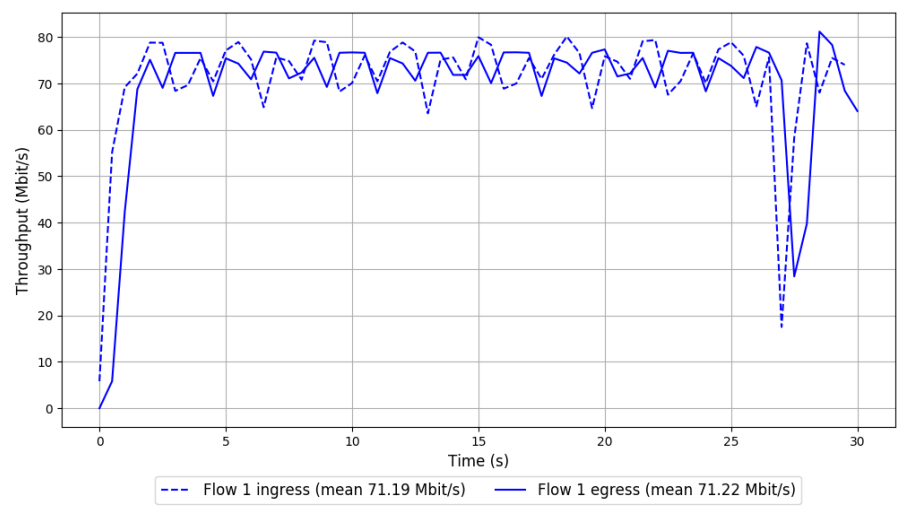
-- Flow 1:

Average throughput: 71.22 Mbit/s

95th percentile per-packet one-way delay: 114.278 ms

Loss rate: 0.59%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-03-09 08:12:36

End at: 2019-03-09 08:13:06

Local clock offset: -0.594 ms

Remote clock offset: 8.397 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.86 Mbit/s

95th percentile per-packet one-way delay: 115.365 ms

Loss rate: 0.86%

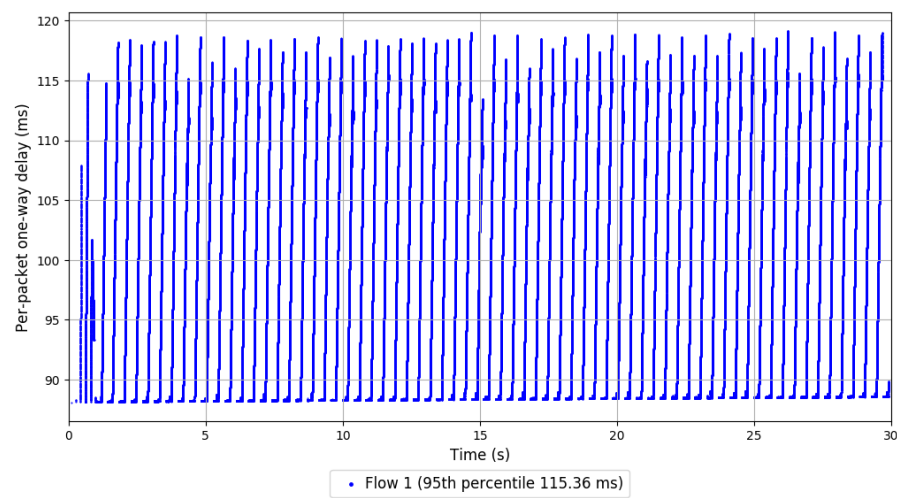
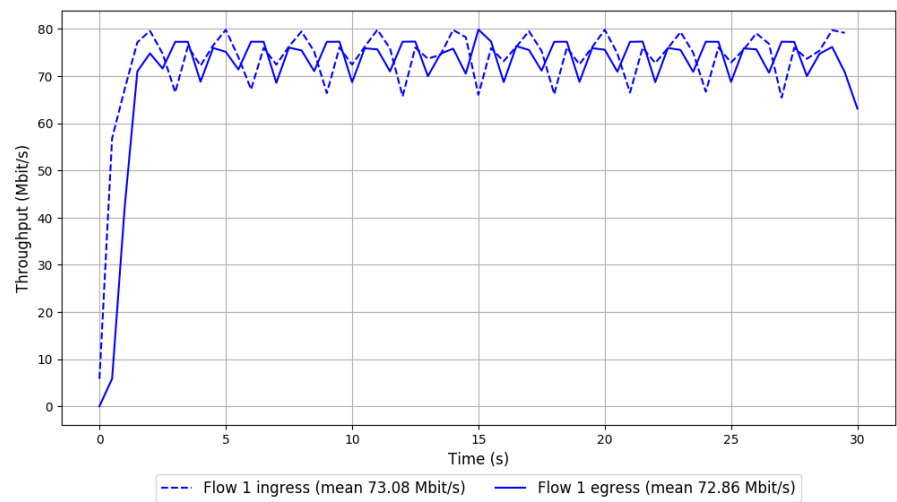
-- Flow 1:

Average throughput: 72.86 Mbit/s

95th percentile per-packet one-way delay: 115.365 ms

Loss rate: 0.86%

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

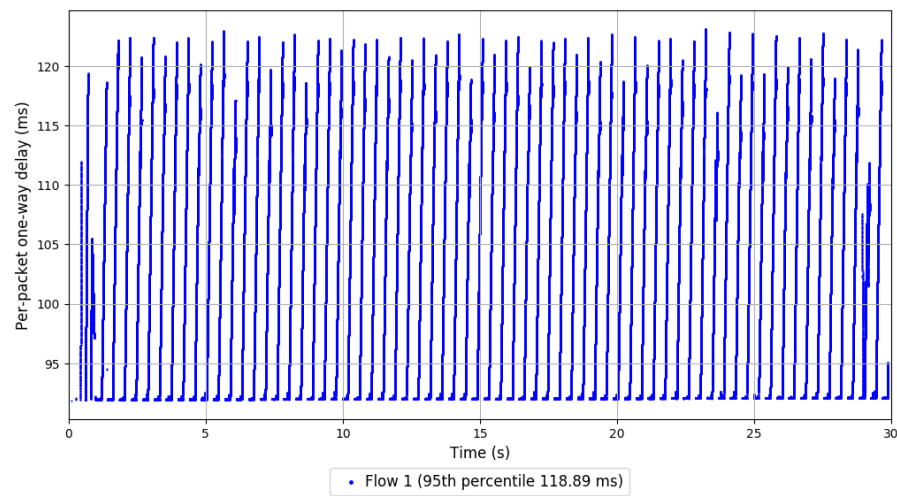
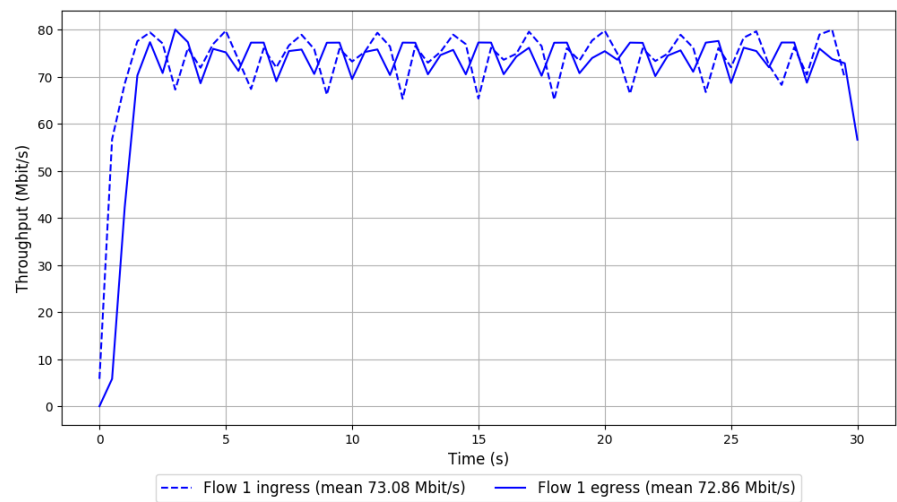


Run 3: Statistics of TaoVA-100x

Start at: 2019-03-09 08:37:35
End at: 2019-03-09 08:38:05
Local clock offset: -6.687 ms
Remote clock offset: 15.972 ms

Below is generated by plot.py at 2019-03-09 09:53:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.86 Mbit/s
95th percentile per-packet one-way delay: 118.889 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 72.86 Mbit/s
95th percentile per-packet one-way delay: 118.889 ms
Loss rate: 0.84%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-03-09 09:02:34

End at: 2019-03-09 09:03:04

Local clock offset: -6.767 ms

Remote clock offset: 6.605 ms

Below is generated by plot.py at 2019-03-09 09:53:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.85 Mbit/s

95th percentile per-packet one-way delay: 114.116 ms

Loss rate: 0.57%

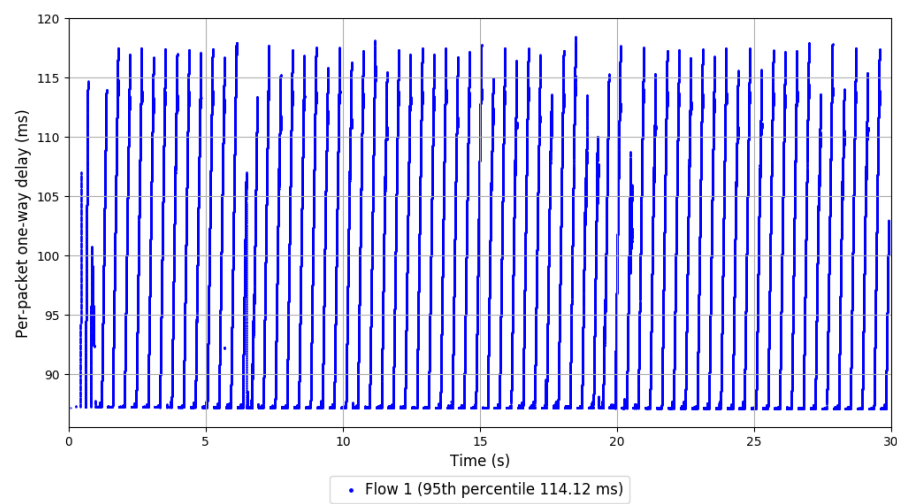
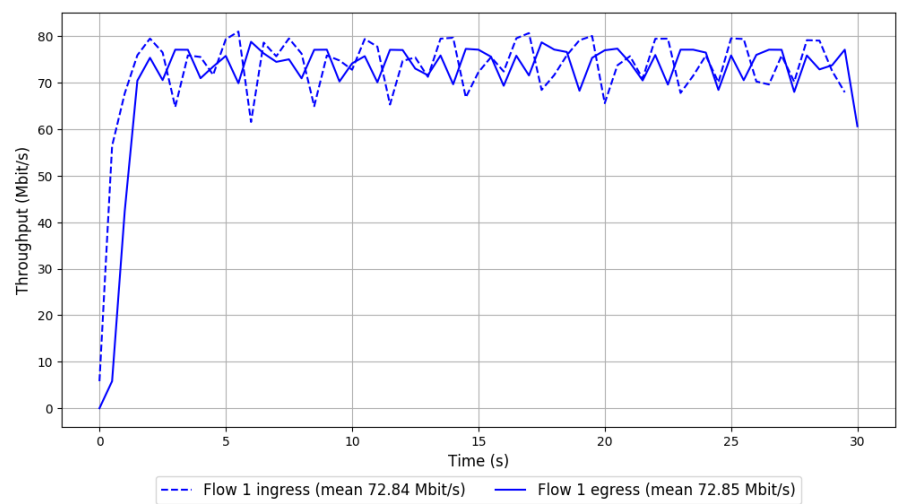
-- Flow 1:

Average throughput: 72.85 Mbit/s

95th percentile per-packet one-way delay: 114.116 ms

Loss rate: 0.57%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-03-09 09:27:32

End at: 2019-03-09 09:28:02

Local clock offset: -6.238 ms

Remote clock offset: 1.531 ms

Below is generated by plot.py at 2019-03-09 09:53:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.51 Mbit/s

95th percentile per-packet one-way delay: 117.457 ms

Loss rate: 0.66%

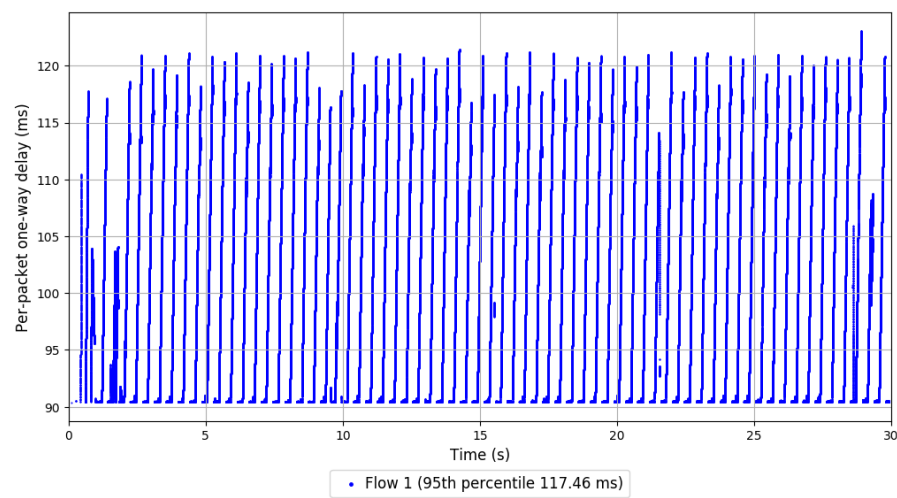
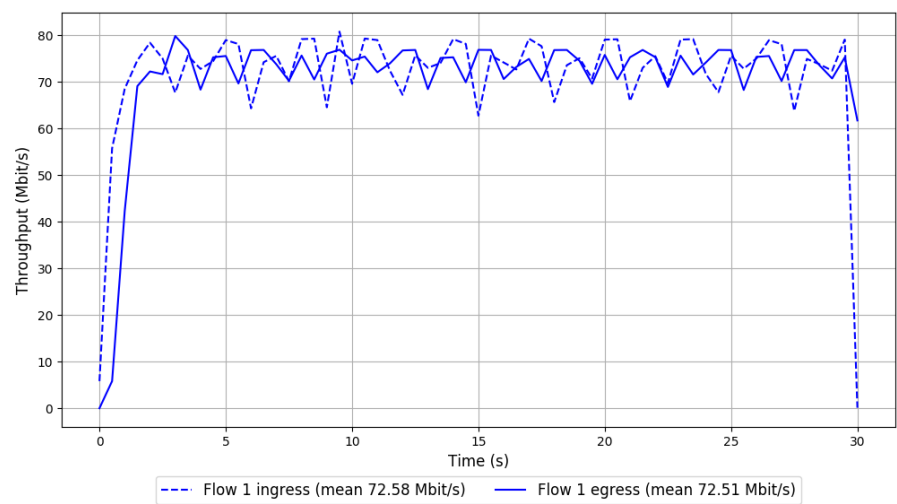
-- Flow 1:

Average throughput: 72.51 Mbit/s

95th percentile per-packet one-way delay: 117.457 ms

Loss rate: 0.66%

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

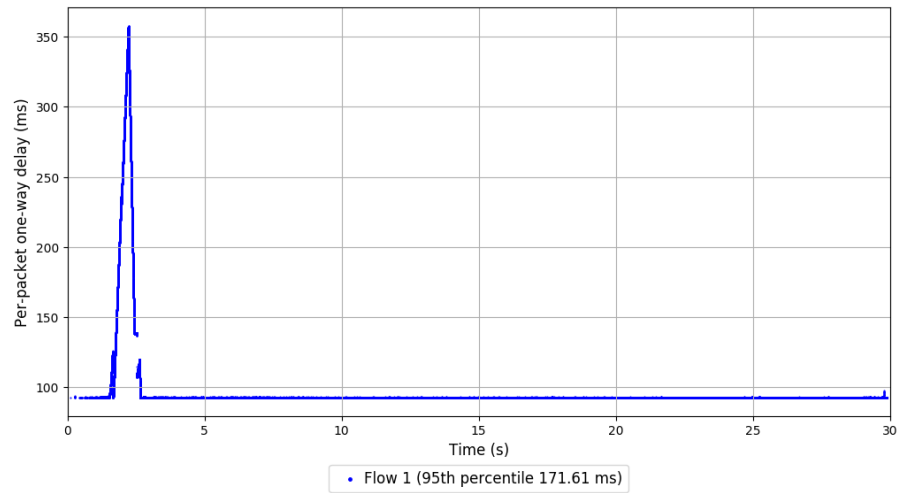
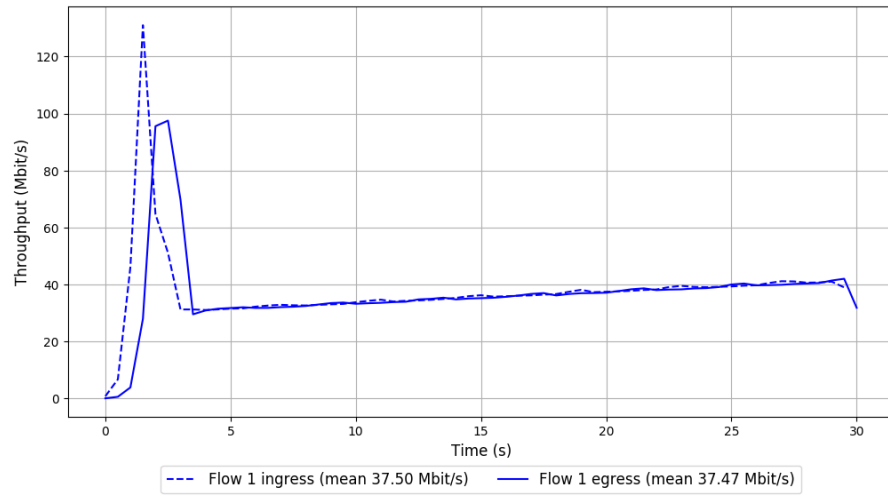


Run 1: Statistics of TCP Vegas

Start at: 2019-03-09 07:45:12
End at: 2019-03-09 07:45:42
Local clock offset: -6.176 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2019-03-09 09:53:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 37.47 Mbit/s
95th percentile per-packet one-way delay: 171.612 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 37.47 Mbit/s
95th percentile per-packet one-way delay: 171.612 ms
Loss rate: 0.66%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-03-09 08:10:11

End at: 2019-03-09 08:10:41

Local clock offset: -1.603 ms

Remote clock offset: 1.451 ms

Below is generated by plot.py at 2019-03-09 09:53:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.30 Mbit/s

95th percentile per-packet one-way delay: 104.714 ms

Loss rate: 0.67%

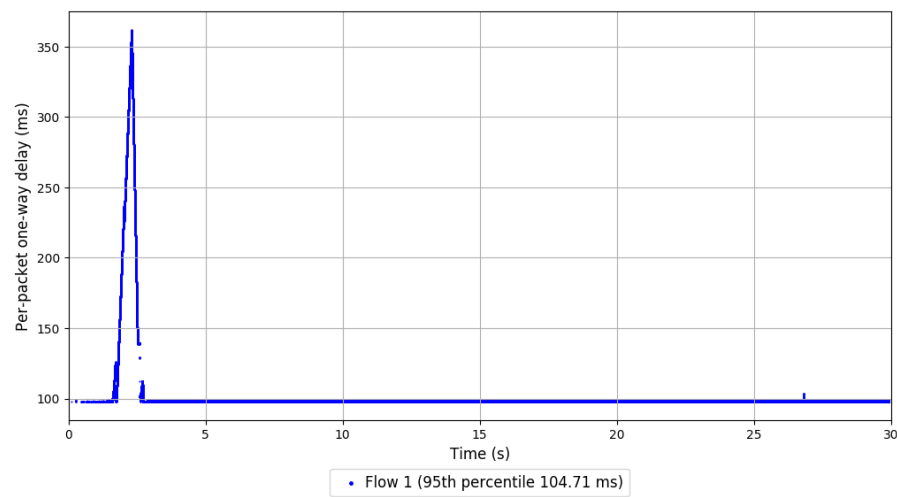
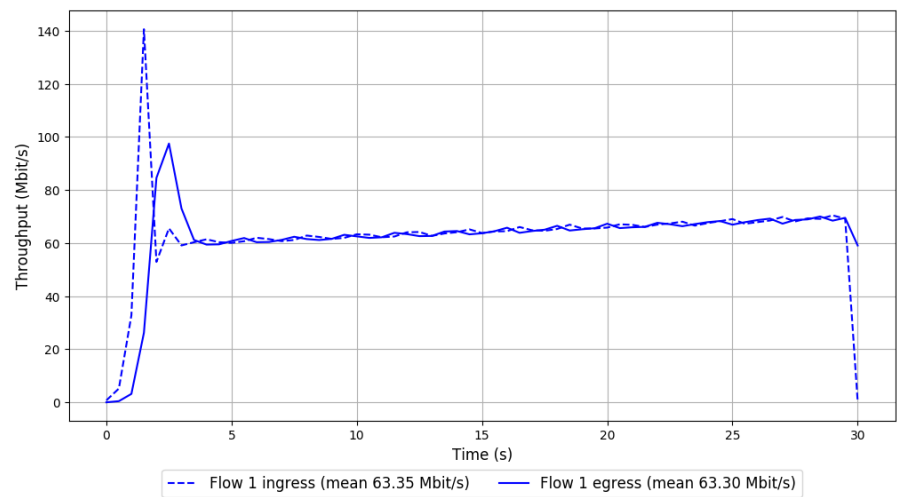
-- Flow 1:

Average throughput: 63.30 Mbit/s

95th percentile per-packet one-way delay: 104.714 ms

Loss rate: 0.67%

Run 2: Report of TCP Vegas — Data Link

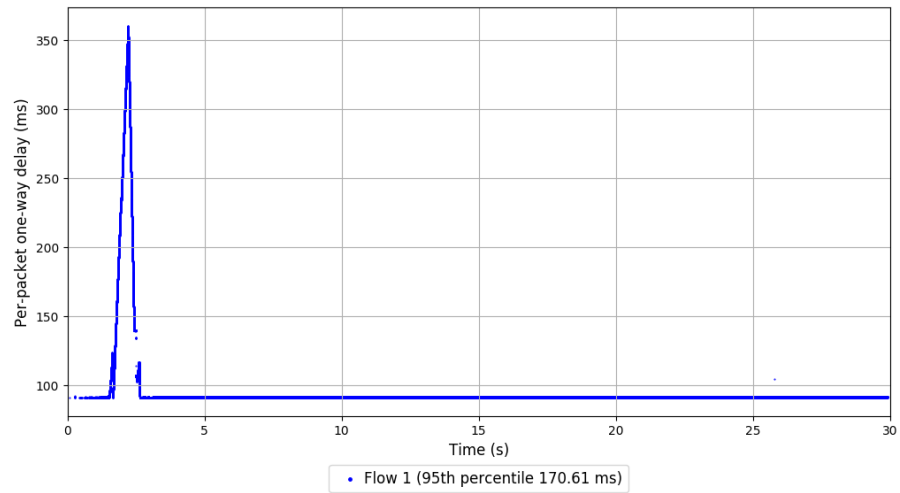
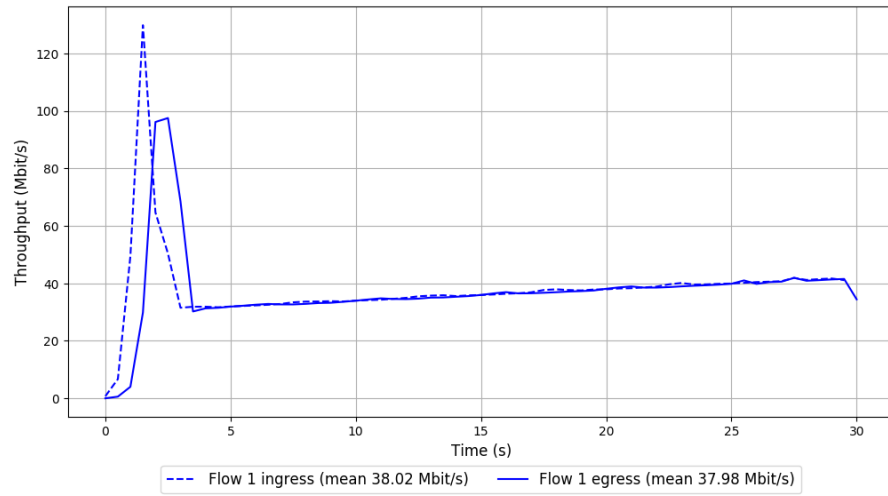


Run 3: Statistics of TCP Vegas

Start at: 2019-03-09 08:35:10
End at: 2019-03-09 08:35:40
Local clock offset: -6.548 ms
Remote clock offset: 15.306 ms

Below is generated by plot.py at 2019-03-09 09:53:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 37.98 Mbit/s
95th percentile per-packet one-way delay: 170.608 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 37.98 Mbit/s
95th percentile per-packet one-way delay: 170.608 ms
Loss rate: 0.67%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-03-09 09:00:09

End at: 2019-03-09 09:00:39

Local clock offset: -6.76 ms

Remote clock offset: 3.385 ms

Below is generated by plot.py at 2019-03-09 09:53:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.46 Mbit/s

95th percentile per-packet one-way delay: 170.550 ms

Loss rate: 0.66%

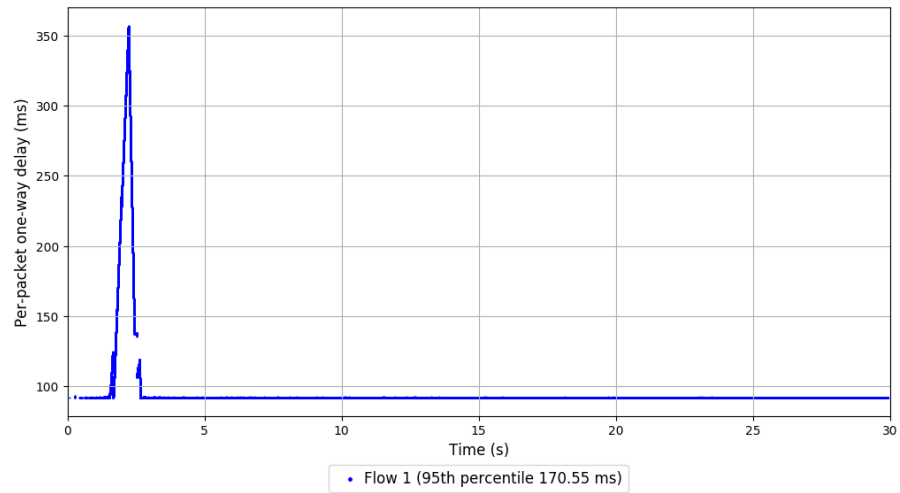
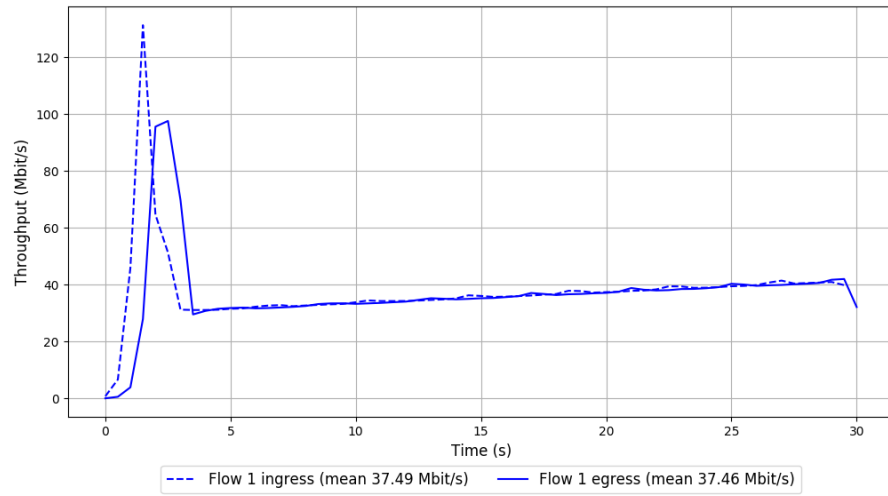
-- Flow 1:

Average throughput: 37.46 Mbit/s

95th percentile per-packet one-way delay: 170.550 ms

Loss rate: 0.66%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-03-09 09:25:07

End at: 2019-03-09 09:25:37

Local clock offset: -5.625 ms

Remote clock offset: 3.839 ms

Below is generated by plot.py at 2019-03-09 09:53:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.50 Mbit/s

95th percentile per-packet one-way delay: 166.993 ms

Loss rate: 0.66%

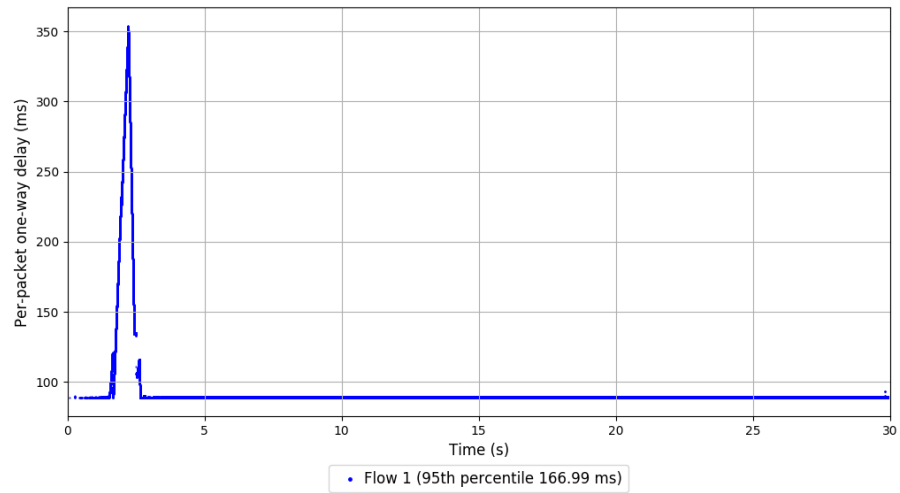
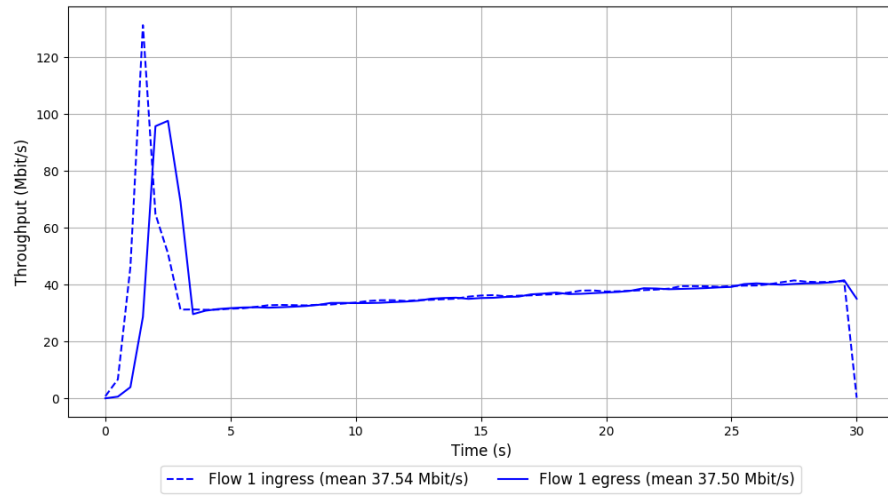
-- Flow 1:

Average throughput: 37.50 Mbit/s

95th percentile per-packet one-way delay: 166.993 ms

Loss rate: 0.66%

Run 5: Report of TCP Vegas — Data Link

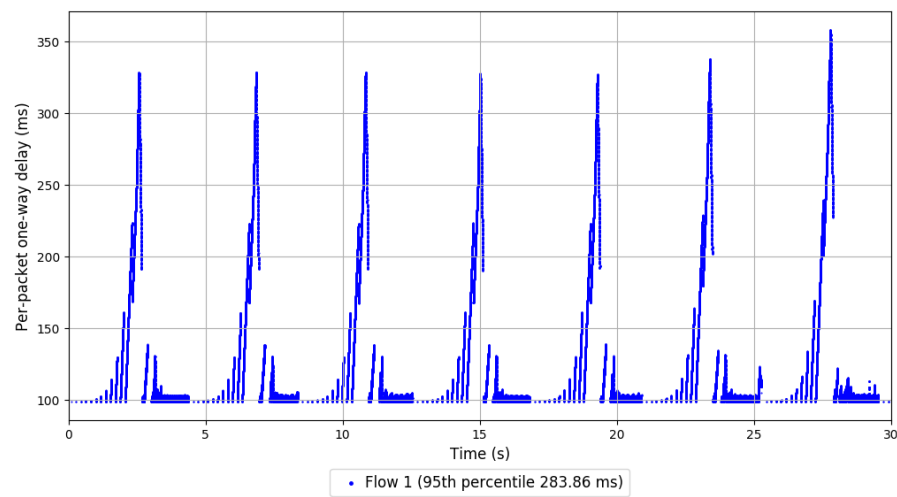
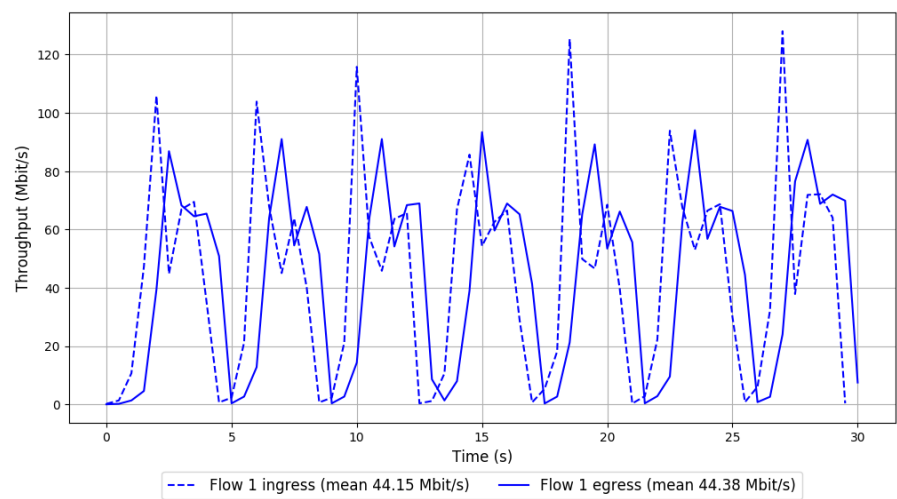


Run 1: Statistics of Verus

Start at: 2019-03-09 07:38:08
End at: 2019-03-09 07:38:38
Local clock offset: -6.653 ms
Remote clock offset: -1.849 ms

Below is generated by plot.py at 2019-03-09 09:53:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 44.38 Mbit/s
95th percentile per-packet one-way delay: 283.862 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 44.38 Mbit/s
95th percentile per-packet one-way delay: 283.862 ms
Loss rate: 0.09%

Run 1: Report of Verus — Data Link

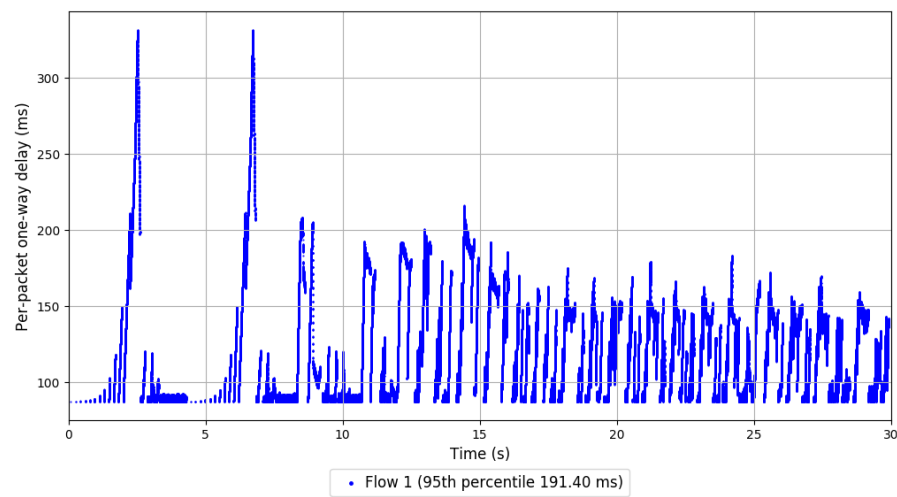
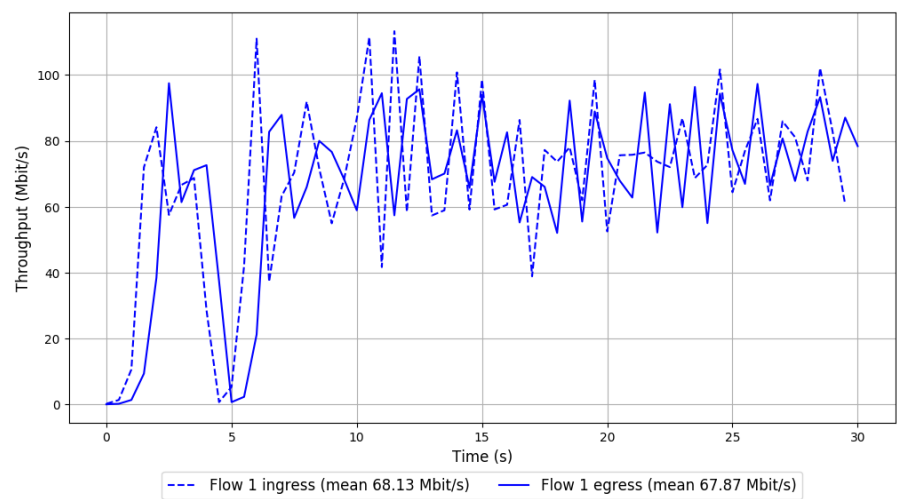


Run 2: Statistics of Verus

Start at: 2019-03-09 08:03:05
End at: 2019-03-09 08:03:35
Local clock offset: -2.237 ms
Remote clock offset: 6.172 ms

Below is generated by plot.py at 2019-03-09 09:53:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 67.87 Mbit/s
95th percentile per-packet one-way delay: 191.403 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 67.87 Mbit/s
95th percentile per-packet one-way delay: 191.403 ms
Loss rate: 0.28%

Run 2: Report of Verus — Data Link

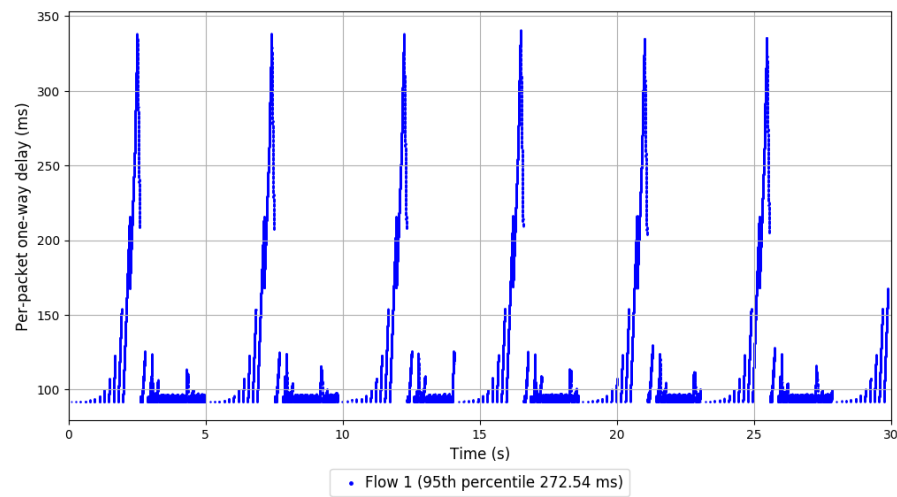
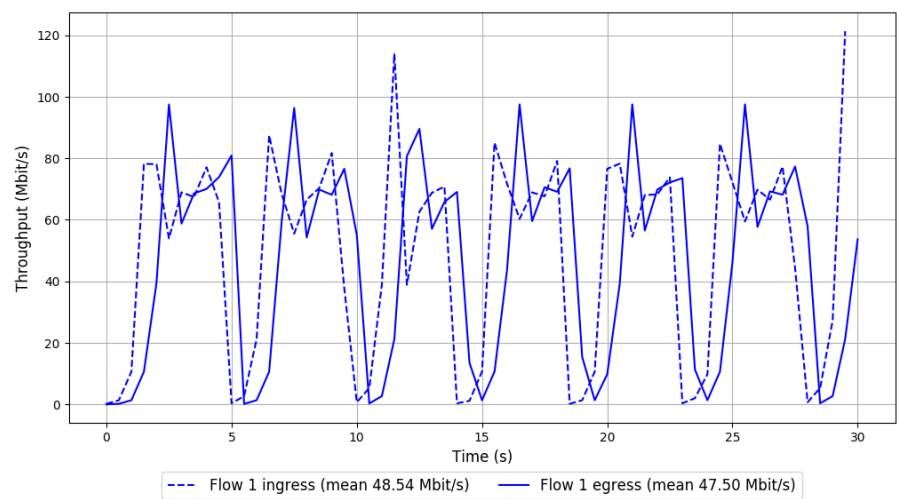


Run 3: Statistics of Verus

Start at: 2019-03-09 08:28:05
End at: 2019-03-09 08:28:35
Local clock offset: -6.412 ms
Remote clock offset: 12.124 ms

Below is generated by plot.py at 2019-03-09 09:53:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 47.50 Mbit/s
95th percentile per-packet one-way delay: 272.542 ms
Loss rate: 2.69%
-- Flow 1:
Average throughput: 47.50 Mbit/s
95th percentile per-packet one-way delay: 272.542 ms
Loss rate: 2.69%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-03-09 08:53:04

End at: 2019-03-09 08:53:34

Local clock offset: -7.541 ms

Remote clock offset: 6.946 ms

Below is generated by plot.py at 2019-03-09 09:53:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.49 Mbit/s

95th percentile per-packet one-way delay: 298.178 ms

Loss rate: 1.54%

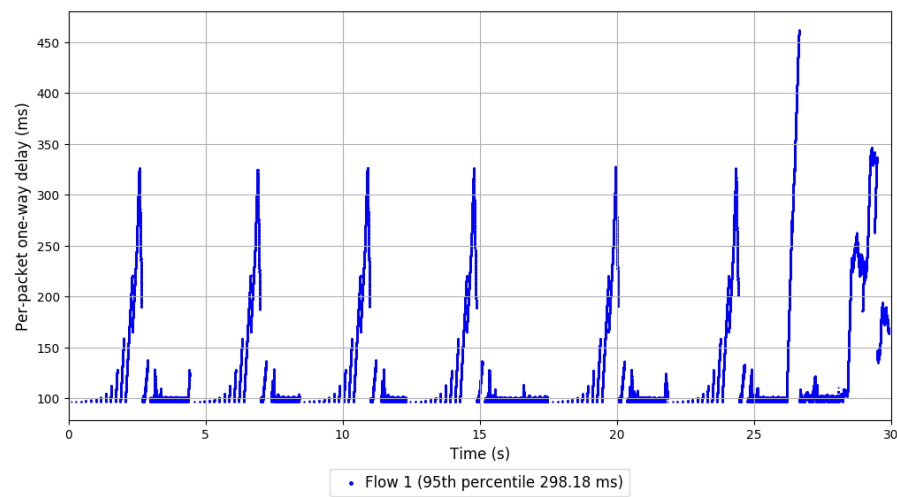
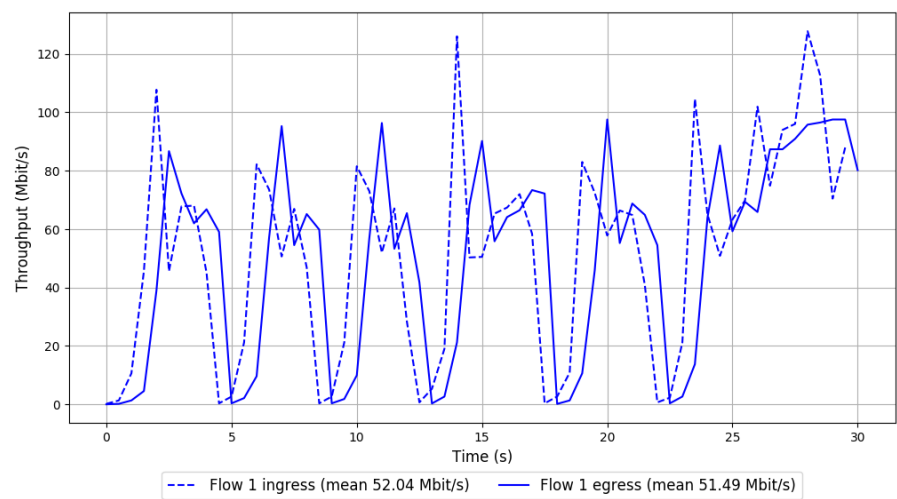
-- Flow 1:

Average throughput: 51.49 Mbit/s

95th percentile per-packet one-way delay: 298.178 ms

Loss rate: 1.54%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-03-09 09:18:02

End at: 2019-03-09 09:18:32

Local clock offset: -6.333 ms

Remote clock offset: 4.31 ms

Below is generated by plot.py at 2019-03-09 09:53:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.98 Mbit/s

95th percentile per-packet one-way delay: 280.820 ms

Loss rate: 1.00%

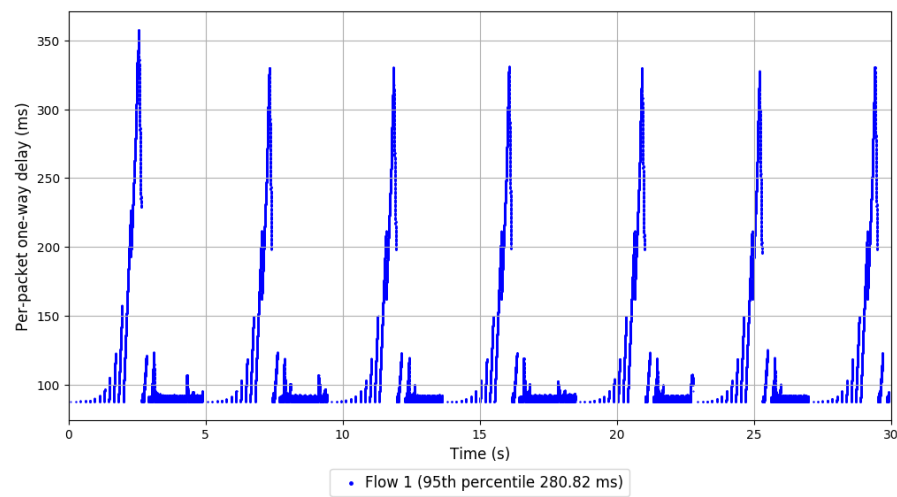
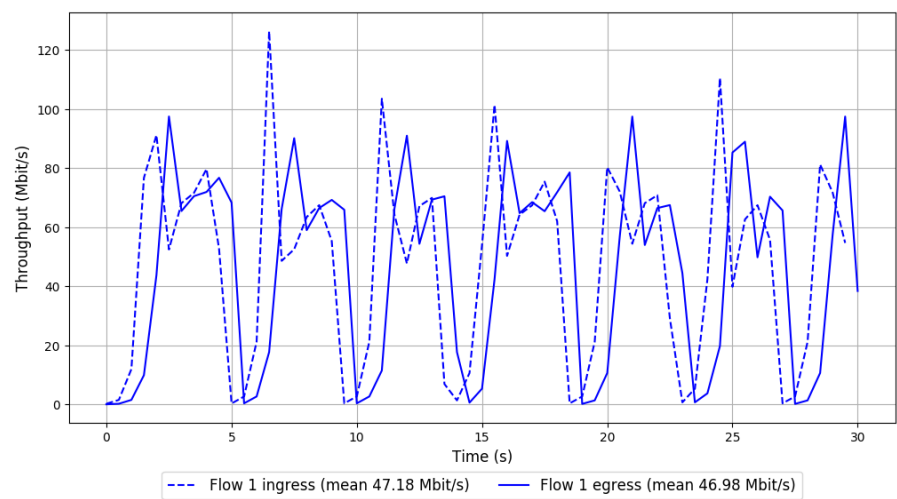
-- Flow 1:

Average throughput: 46.98 Mbit/s

95th percentile per-packet one-way delay: 280.820 ms

Loss rate: 1.00%

Run 5: Report of Verus — Data Link

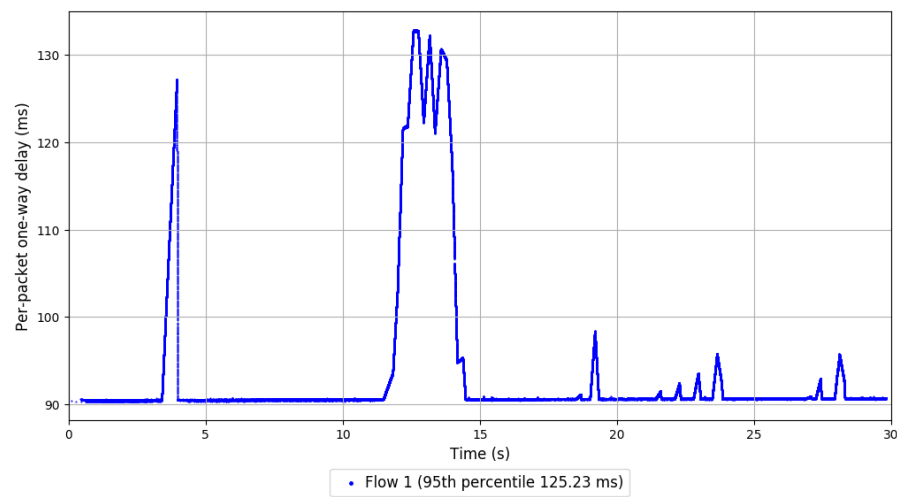
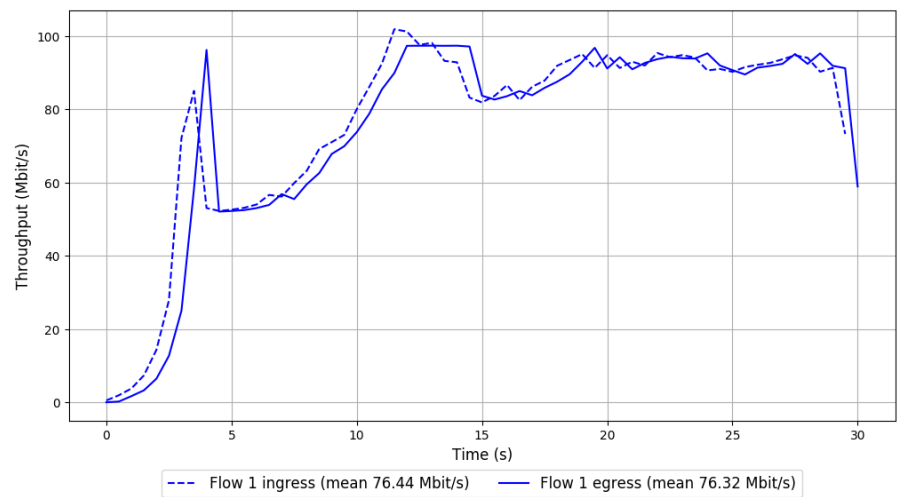


Run 1: Statistics of PCC-Vivace

Start at: 2019-03-09 07:36:55
End at: 2019-03-09 07:37:25
Local clock offset: -7.464 ms
Remote clock offset: -1.148 ms

Below is generated by plot.py at 2019-03-09 09:54:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.32 Mbit/s
95th percentile per-packet one-way delay: 125.234 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 76.32 Mbit/s
95th percentile per-packet one-way delay: 125.234 ms
Loss rate: 0.73%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-03-09 08:01:52

End at: 2019-03-09 08:02:22

Local clock offset: -2.382 ms

Remote clock offset: 5.0 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.79 Mbit/s

95th percentile per-packet one-way delay: 90.559 ms

Loss rate: 0.76%

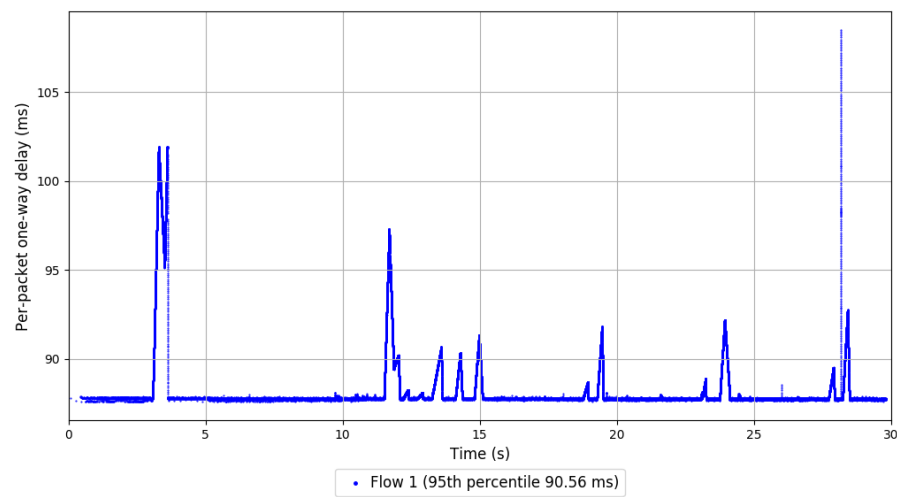
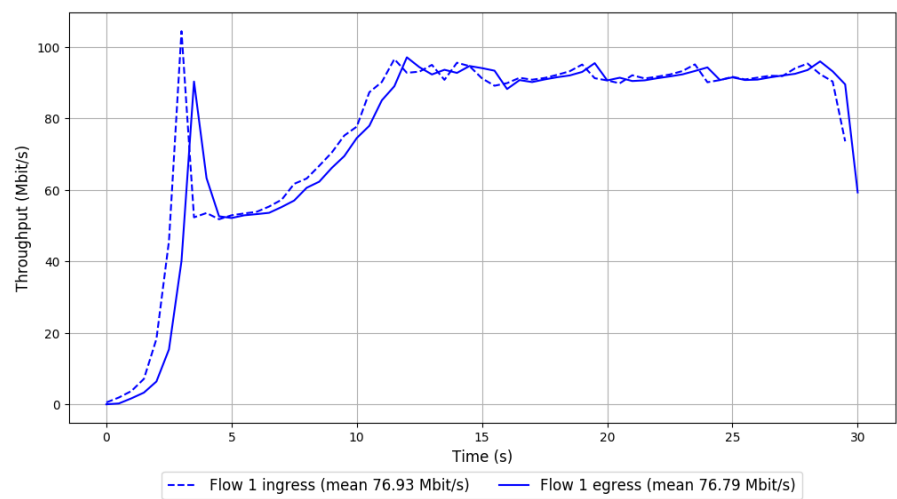
-- Flow 1:

Average throughput: 76.79 Mbit/s

95th percentile per-packet one-way delay: 90.559 ms

Loss rate: 0.76%

Run 2: Report of PCC-Vivace — Data Link

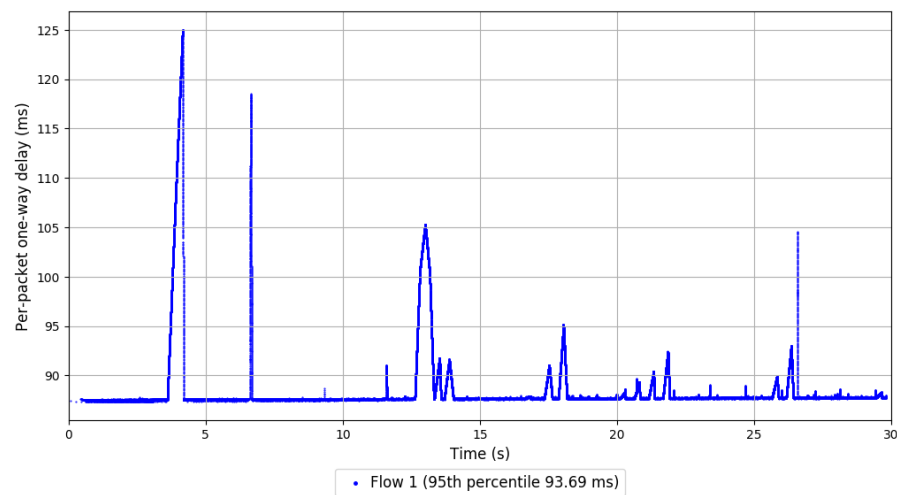
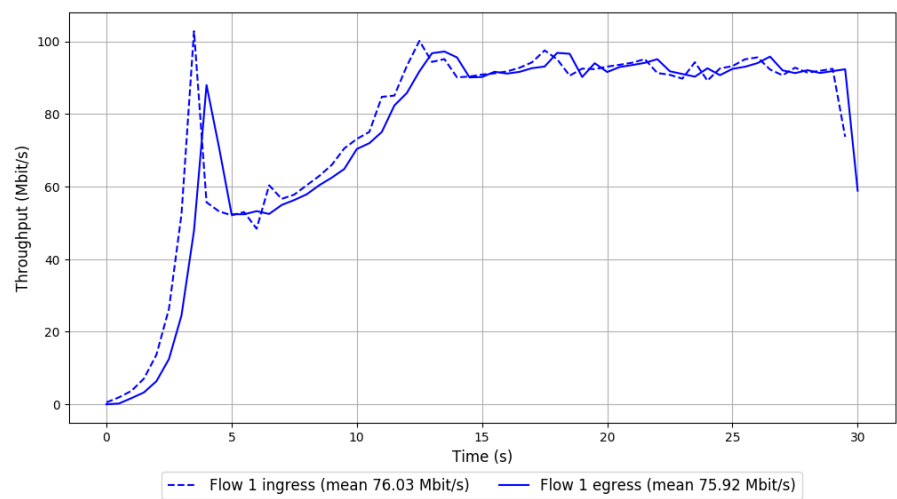


Run 3: Statistics of PCC-Vivace

Start at: 2019-03-09 08:26:52
End at: 2019-03-09 08:27:22
Local clock offset: -5.454 ms
Remote clock offset: 16.774 ms

Below is generated by plot.py at 2019-03-09 09:54:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.92 Mbit/s
95th percentile per-packet one-way delay: 93.687 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 75.92 Mbit/s
95th percentile per-packet one-way delay: 93.687 ms
Loss rate: 0.71%

Run 3: Report of PCC-Vivace — Data Link

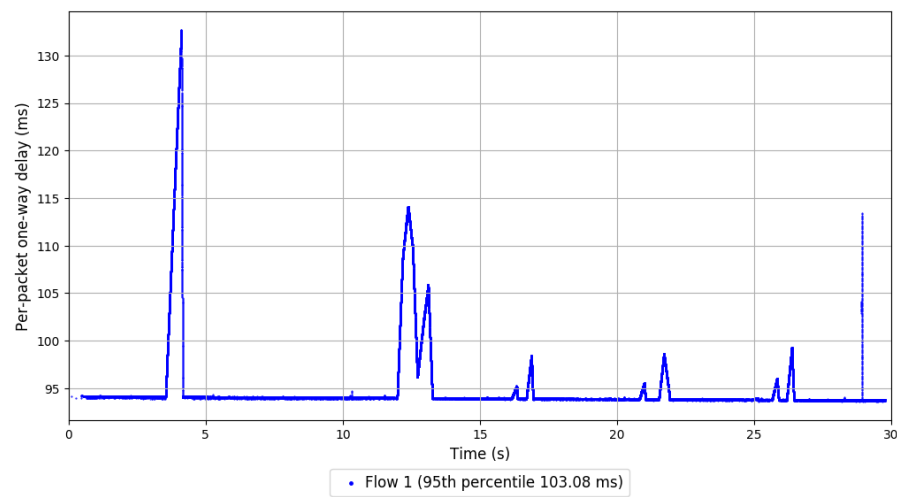
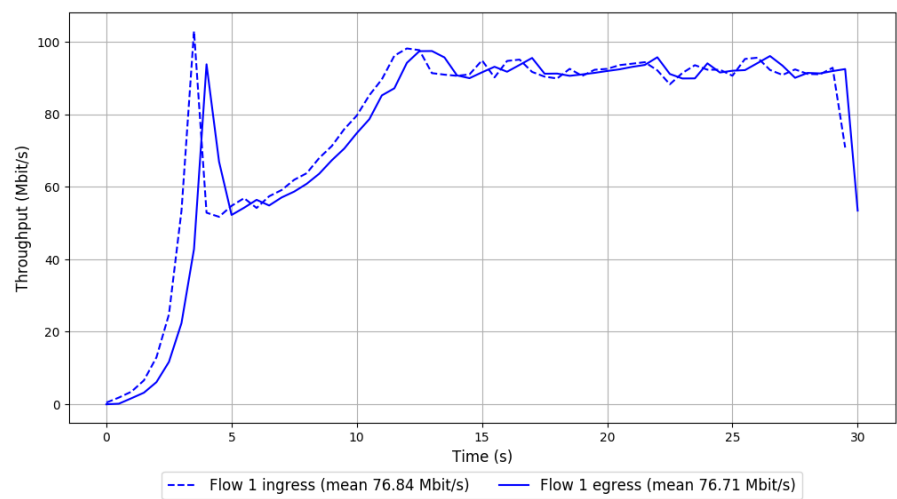


Run 4: Statistics of PCC-Vivace

Start at: 2019-03-09 08:51:51
End at: 2019-03-09 08:52:21
Local clock offset: -7.633 ms
Remote clock offset: 10.813 ms

Below is generated by plot.py at 2019-03-09 09:54:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.71 Mbit/s
95th percentile per-packet one-way delay: 103.079 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 76.71 Mbit/s
95th percentile per-packet one-way delay: 103.079 ms
Loss rate: 0.77%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-03-09 09:16:49

End at: 2019-03-09 09:17:19

Local clock offset: -6.512 ms

Remote clock offset: 0.123 ms

Below is generated by plot.py at 2019-03-09 09:54:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.74 Mbit/s

95th percentile per-packet one-way delay: 125.102 ms

Loss rate: 0.76%

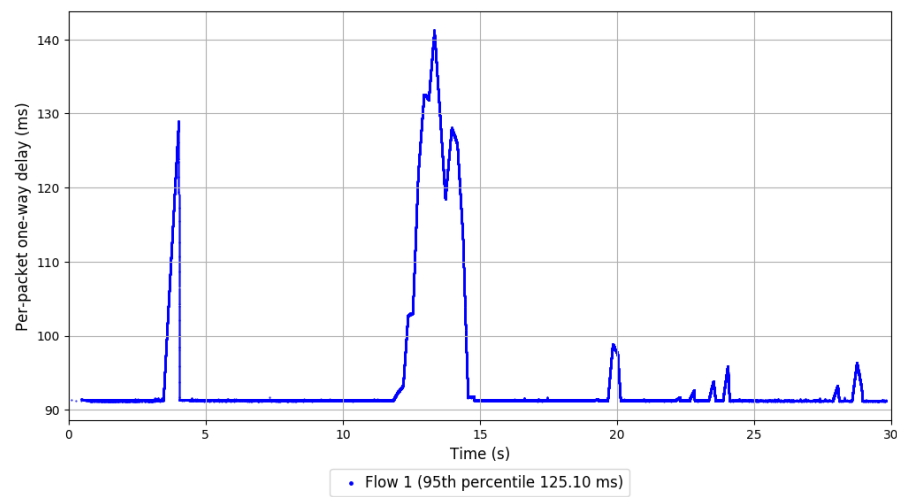
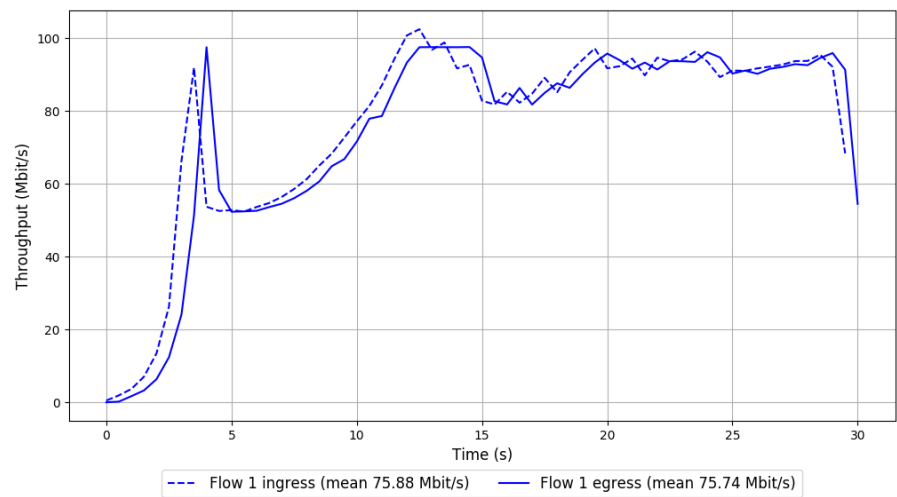
-- Flow 1:

Average throughput: 75.74 Mbit/s

95th percentile per-packet one-way delay: 125.102 ms

Loss rate: 0.76%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-03-09 07:50:03

End at: 2019-03-09 07:50:33

Local clock offset: -4.192 ms

Remote clock offset: 1.567 ms

Below is generated by plot.py at 2019-03-09 09:54:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 92.163 ms

Loss rate: 0.29%

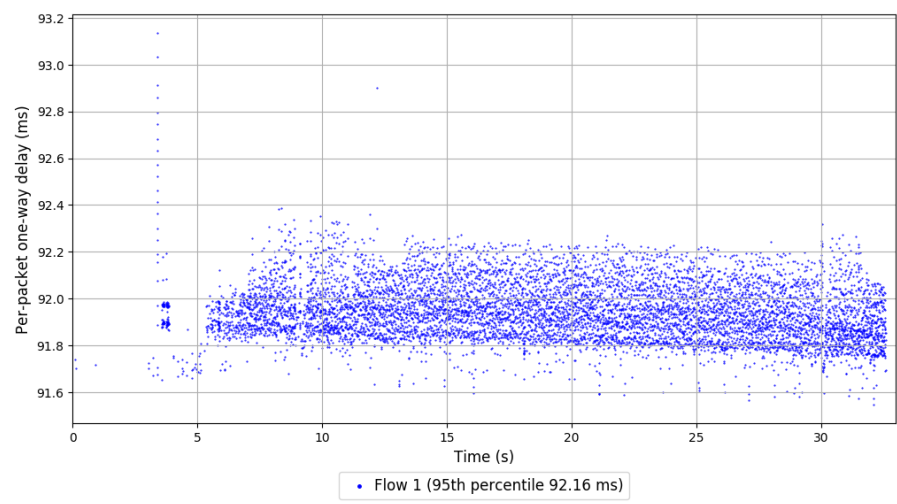
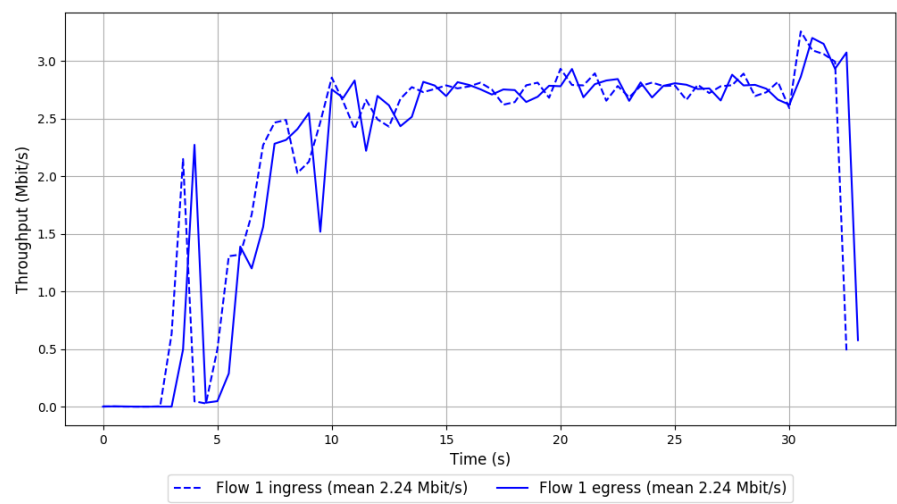
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 92.163 ms

Loss rate: 0.29%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-03-09 08:15:03

End at: 2019-03-09 08:15:34

Local clock offset: -1.824 ms

Remote clock offset: 6.507 ms

Below is generated by plot.py at 2019-03-09 09:54:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 92.654 ms

Loss rate: 0.34%

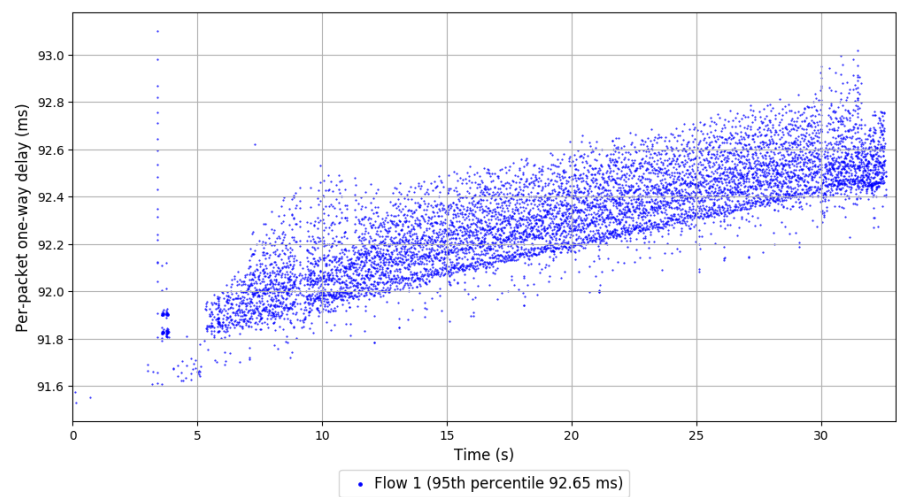
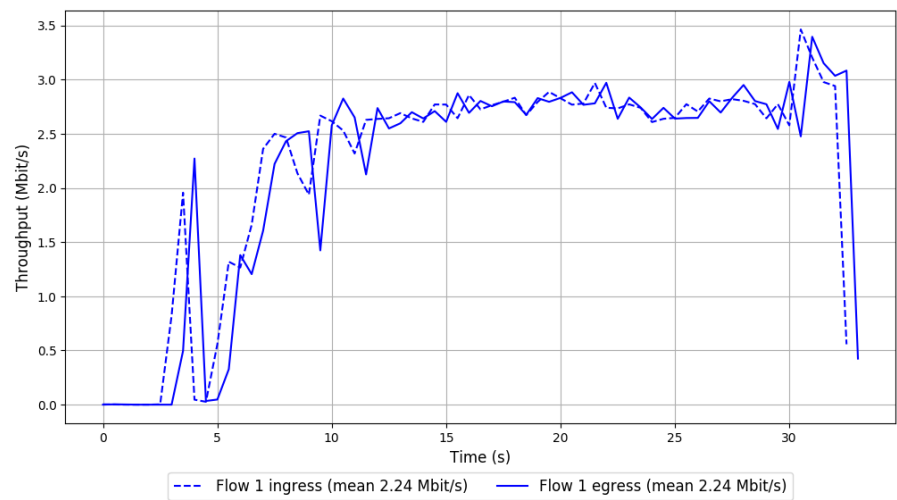
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 92.654 ms

Loss rate: 0.34%

Run 2: Report of WebRTC media — Data Link

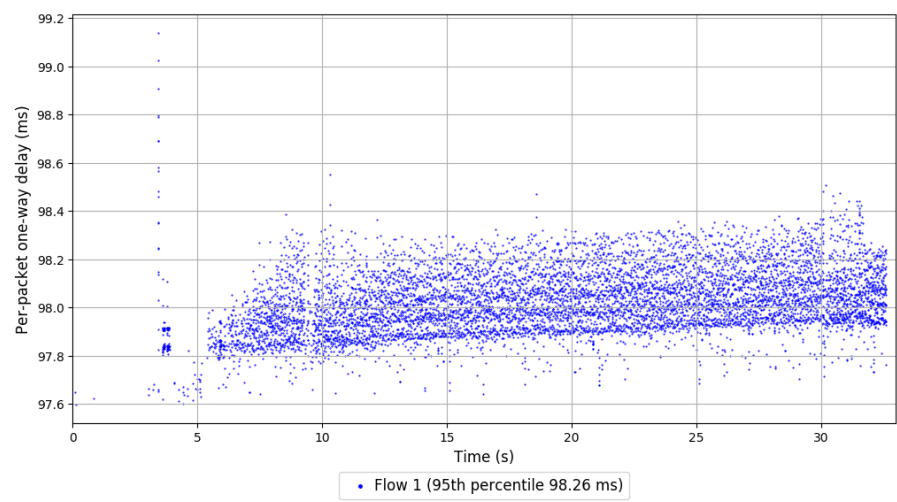
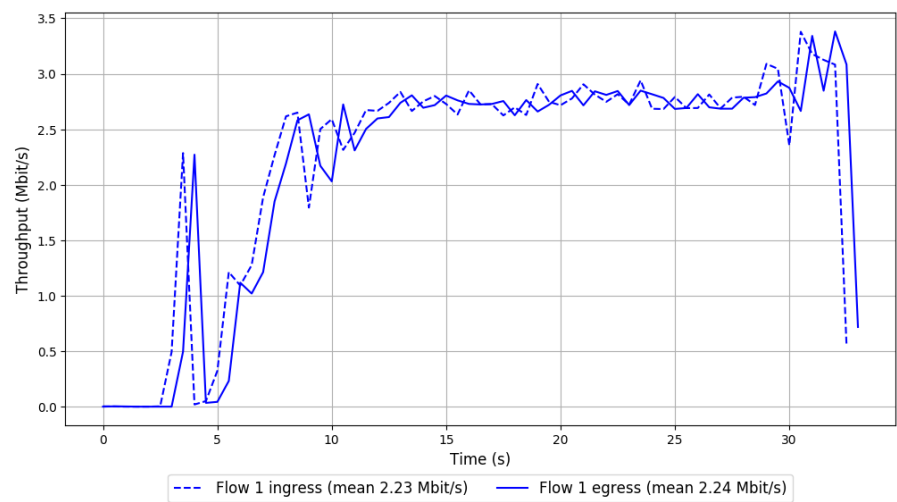


Run 3: Statistics of WebRTC media

Start at: 2019-03-09 08:40:02
End at: 2019-03-09 08:40:32
Local clock offset: -6.853 ms
Remote clock offset: 16.448 ms

Below is generated by plot.py at 2019-03-09 09:54:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 98.257 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 98.257 ms
Loss rate: 0.31%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-03-09 09:05:01

End at: 2019-03-09 09:05:31

Local clock offset: -6.806 ms

Remote clock offset: 6.023 ms

Below is generated by plot.py at 2019-03-09 09:54:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 93.971 ms

Loss rate: 0.35%

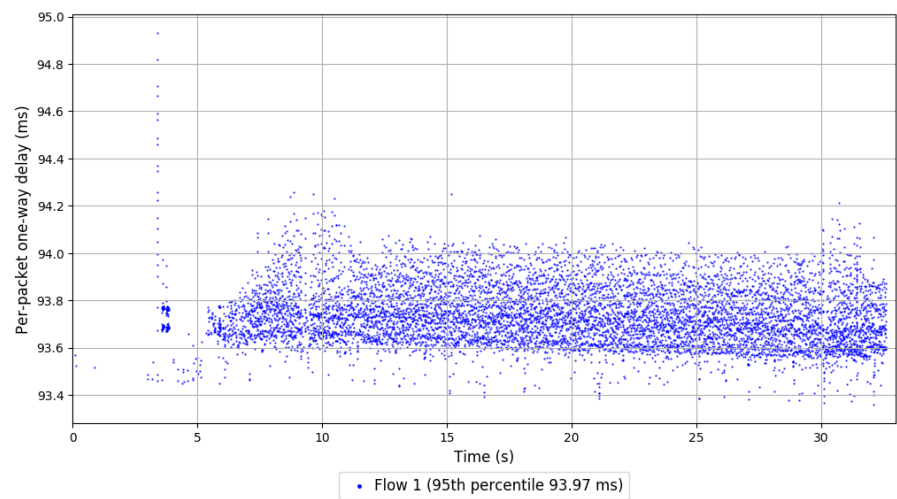
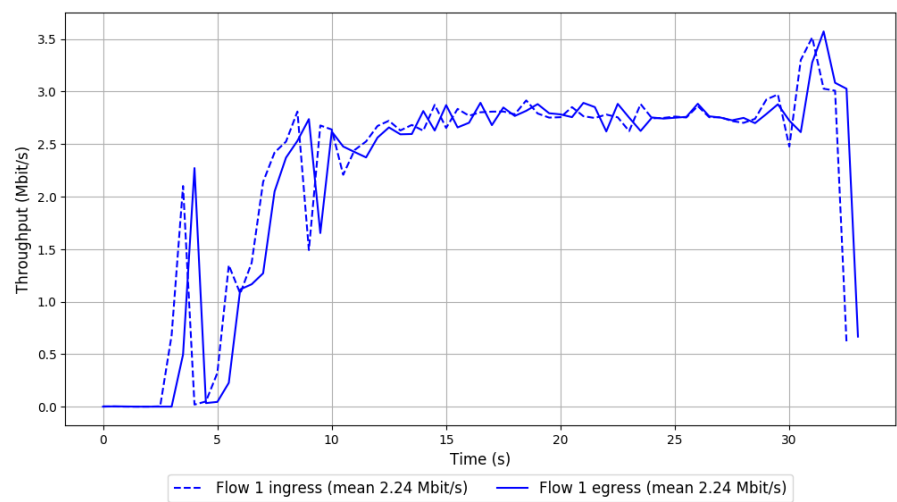
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 93.971 ms

Loss rate: 0.35%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-03-09 09:29:59

End at: 2019-03-09 09:30:29

Local clock offset: -5.328 ms

Remote clock offset: 0.614 ms

Below is generated by plot.py at 2019-03-09 09:54:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.38 Mbit/s

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

Loss rate: 0.39%

-- Flow 1:

Average throughput: 2.38 Mbit/s

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

Loss rate: 0.39%

Run 5: Report of WebRTC media — Data Link

