

Pantheon Report

Generated at 2019-01-25 17:26:12 (UTC).

Data path: China on `eno1` (*remote*) → AWS Korea 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 `ntp.nict.jp` and have been applied to correct the timestamps in logs.

System info:

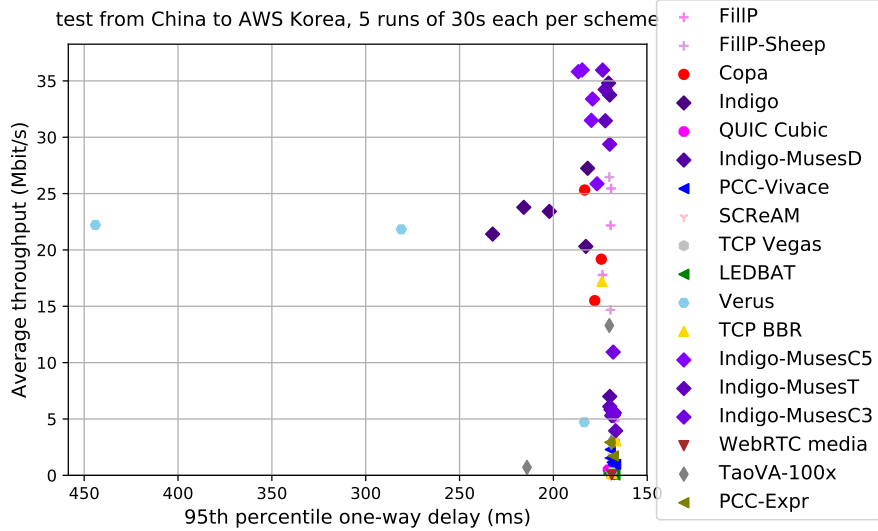
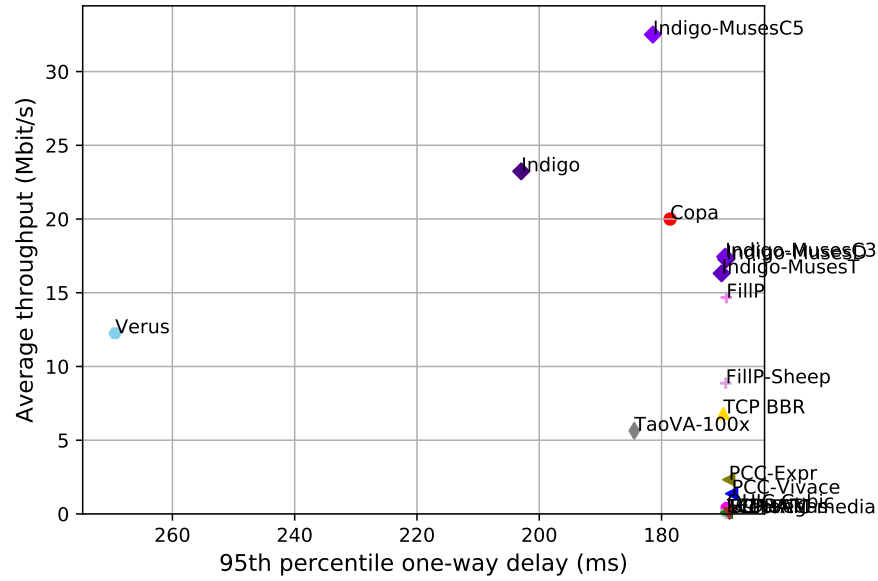
```
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ 0b8e9a949603c3842368430acf469eec3b941f9f
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ d9c5ea33091330aca25ecd105ab2db6d34d5c40d
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 China to AWS Korea, 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	3	6.81	169.90	38.85
Copa	3	20.00	178.59	27.05
TCP Cubic	0	N/A	N/A	N/A
FillP	5	14.68	169.40	19.80
FillP-Sheep	5	8.86	169.50	21.30
Indigo	5	23.23	202.95	73.66
Indigo-MusesC3	5	17.45	169.59	23.26
Indigo-MusesC5	5	32.51	181.42	38.89
Indigo-MusesD	5	17.28	169.42	33.79
Indigo-MusesT	5	16.31	170.18	25.82
LEDBAT	5	0.10	169.39	21.29
PCC-Allegro	0	N/A	N/A	N/A
PCC-Expr	2	2.33	169.01	33.37
QUIC Cubic	5	0.40	169.32	17.93
SCReAM	5	0.07	168.85	17.62
Sprout	0	N/A	N/A	N/A
TaoVA-100x	3	5.63	184.46	47.44
TCP Vegas	2	0.08	169.31	27.02
Verus	4	12.25	269.37	39.42
PCC-Vivace	5	1.37	168.53	16.97
WebRTC media	1	0.05	168.90	29.79

Run 1: Statistics of TCP BBR

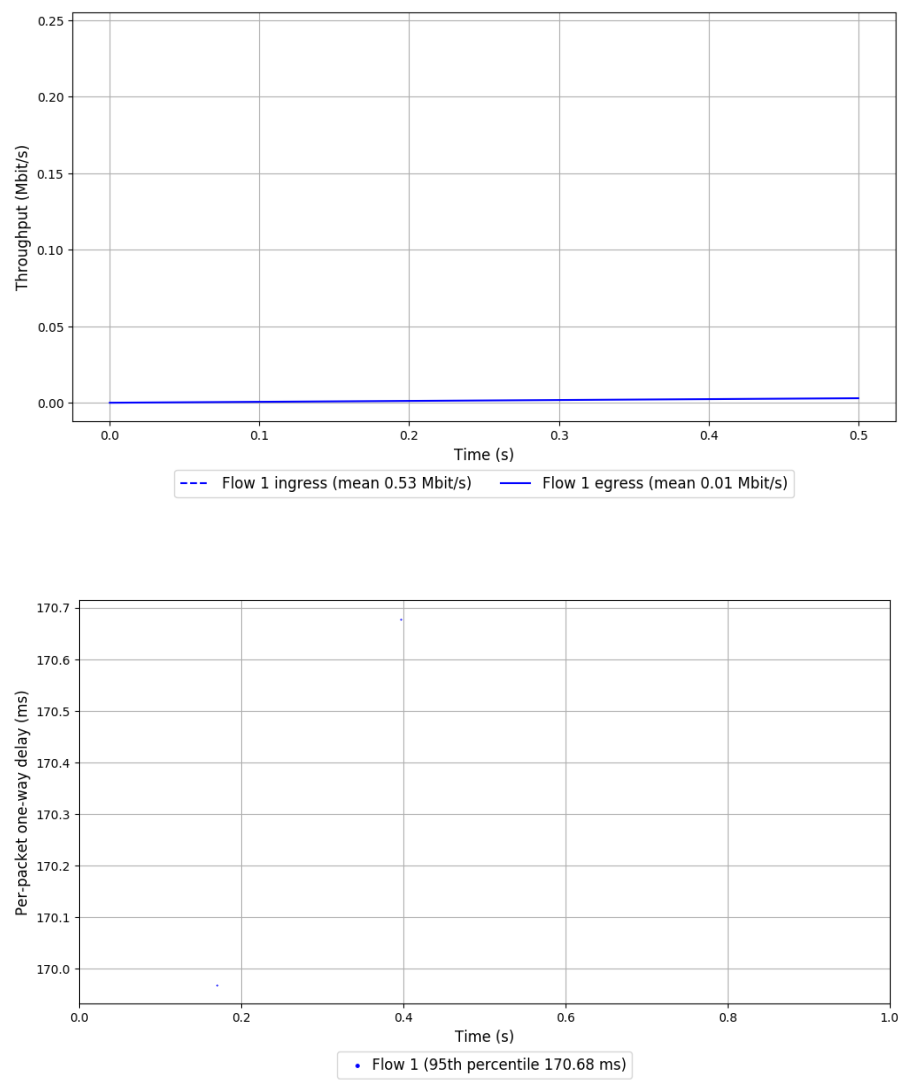
Start at: 2019-01-25 11:41:40

End at: 2019-01-25 11:42:10

Local clock offset: 2.102 ms

Remote clock offset: 53.258 ms

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

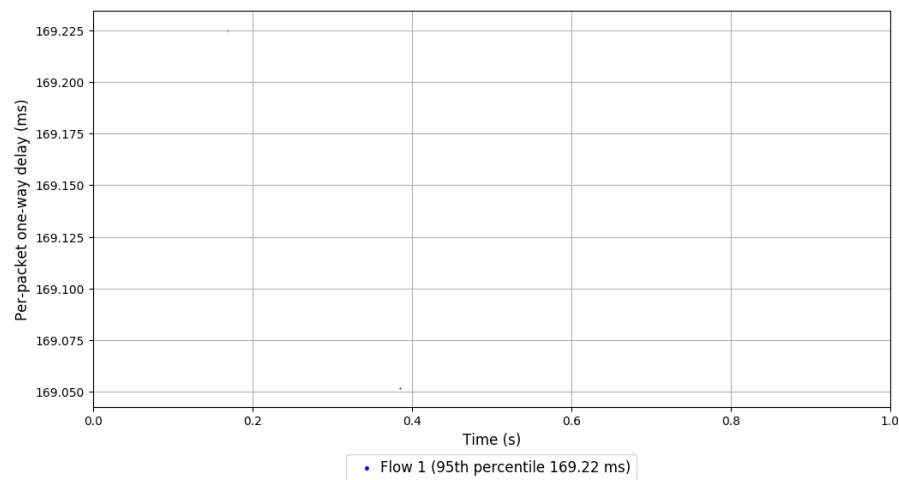
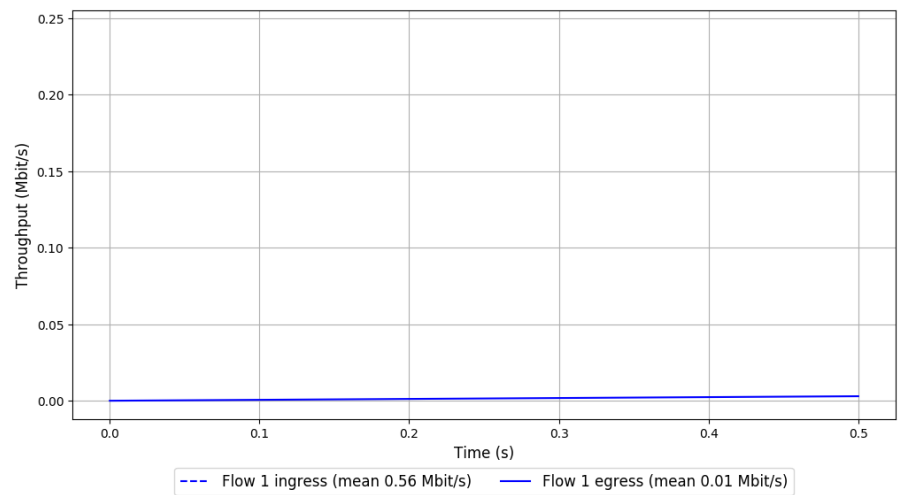
Start at: 2019-01-25 13:18:39

End at: 2019-01-25 13:19:09

Local clock offset: 0.818 ms

Remote clock offset: 50.445 ms

Run 2: Report of TCP BBR — Data Link

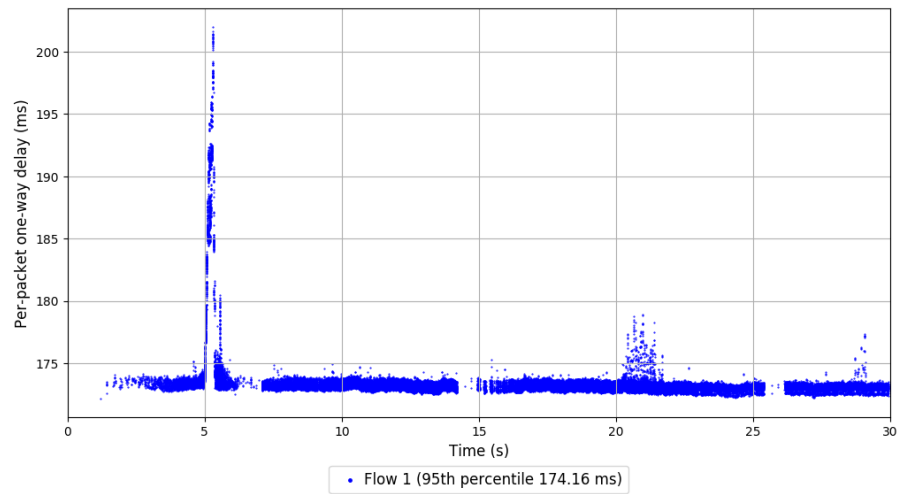
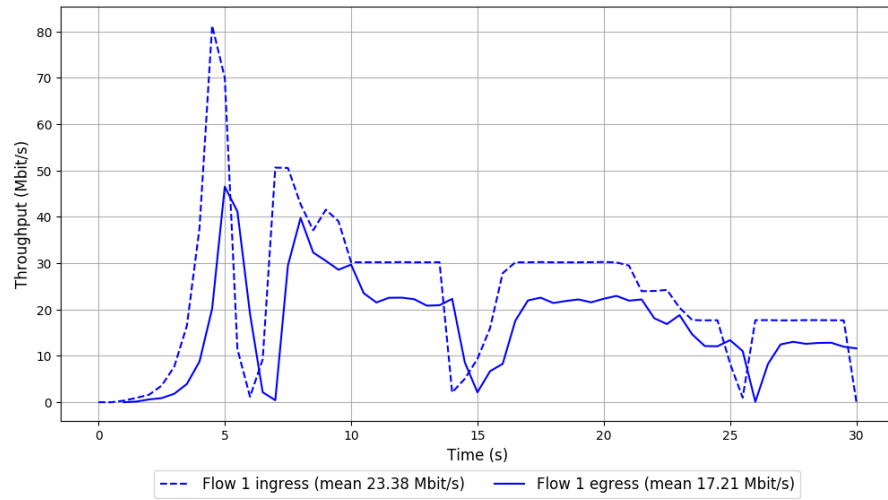


Run 3: Statistics of TCP BBR

Start at: 2019-01-25 14:41:30
End at: 2019-01-25 14:42:00
Local clock offset: 23.662 ms
Remote clock offset: 44.454 ms

Below is generated by plot.py at 2019-01-25 17:24:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 17.21 Mbit/s
95th percentile per-packet one-way delay: 174.162 ms
Loss rate: 29.48%
-- Flow 1:
Average throughput: 17.21 Mbit/s
95th percentile per-packet one-way delay: 174.162 ms
Loss rate: 29.48%

Run 3: Report of TCP BBR — Data Link

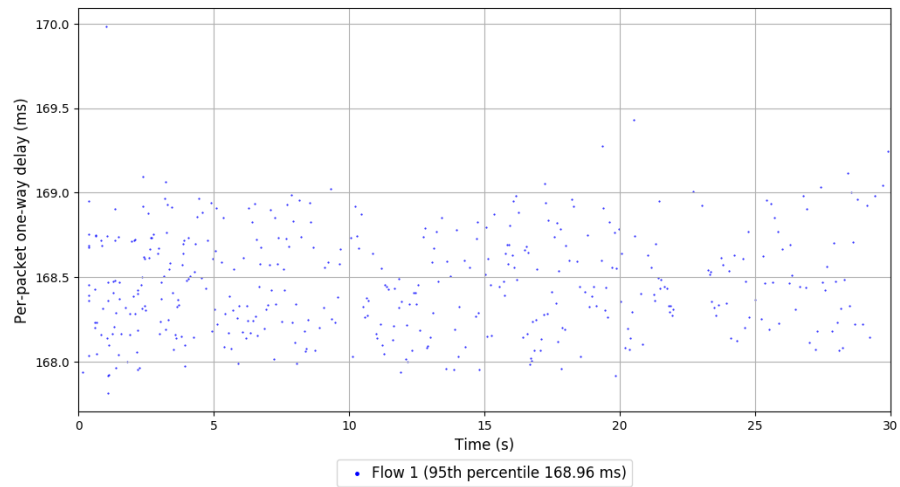
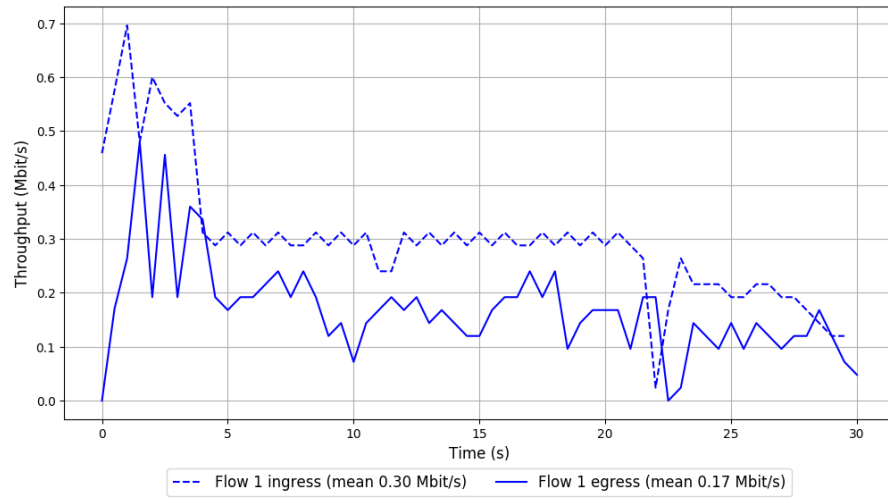


Run 4: Statistics of TCP BBR

Start at: 2019-01-25 16:09:35
End at: 2019-01-25 16:10:05
Local clock offset: 2.263 ms
Remote clock offset: 45.803 ms

Below is generated by plot.py at 2019-01-25 17:24:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 168.955 ms
Loss rate: 42.83%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 168.955 ms
Loss rate: 42.83%

Run 4: Report of TCP BBR — Data Link

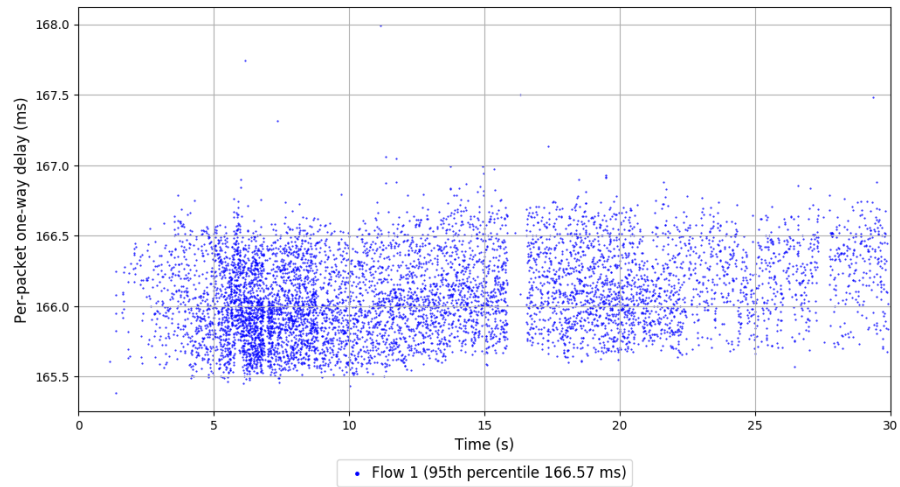
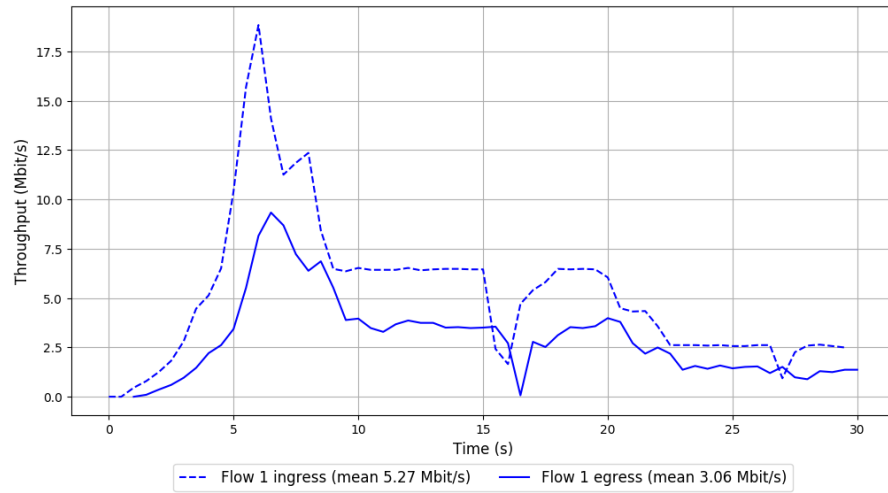


Run 5: Statistics of TCP BBR

Start at: 2019-01-25 17:19:48
End at: 2019-01-25 17:20:18
Local clock offset: 11.299 ms
Remote clock offset: 50.325 ms

Below is generated by plot.py at 2019-01-25 17:24:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.06 Mbit/s
95th percentile per-packet one-way delay: 166.574 ms
Loss rate: 44.23%
-- Flow 1:
Average throughput: 3.06 Mbit/s
95th percentile per-packet one-way delay: 166.574 ms
Loss rate: 44.23%

Run 5: Report of TCP BBR — Data Link

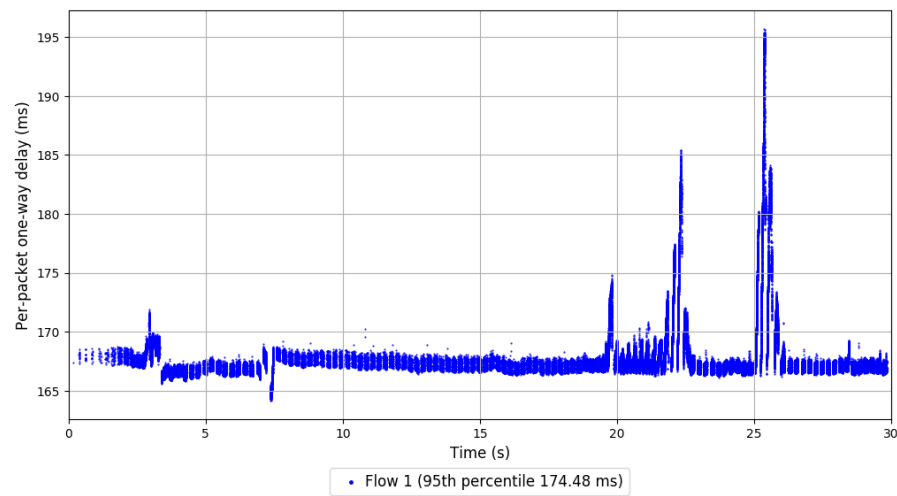
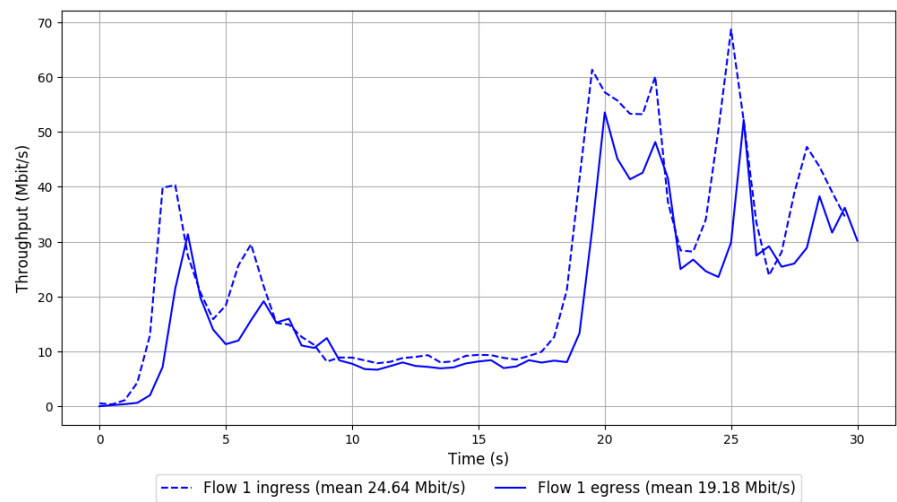


Run 1: Statistics of Copa

Start at: 2019-01-25 11:13:55
End at: 2019-01-25 11:14:25
Local clock offset: -0.357 ms
Remote clock offset: 62.107 ms

Below is generated by plot.py at 2019-01-25 17:24:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 19.18 Mbit/s
95th percentile per-packet one-way delay: 174.478 ms
Loss rate: 22.82%
-- Flow 1:
Average throughput: 19.18 Mbit/s
95th percentile per-packet one-way delay: 174.478 ms
Loss rate: 22.82%

Run 1: Report of Copa — Data Link

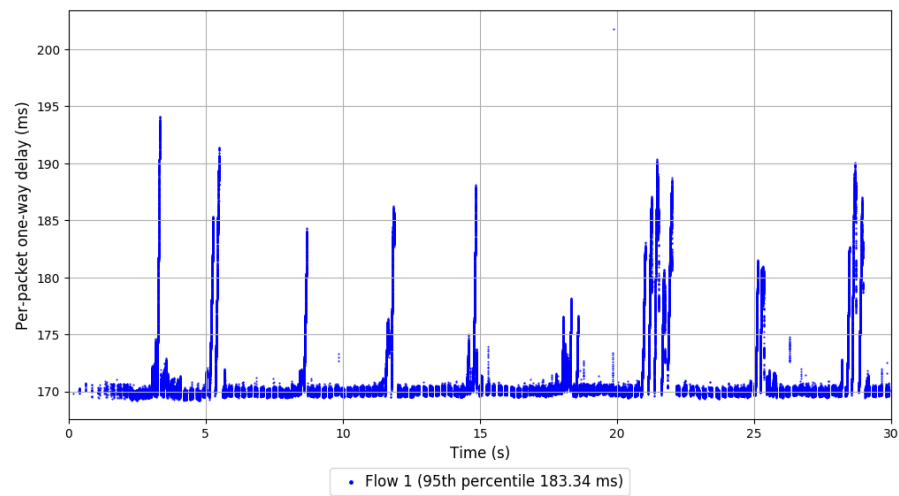
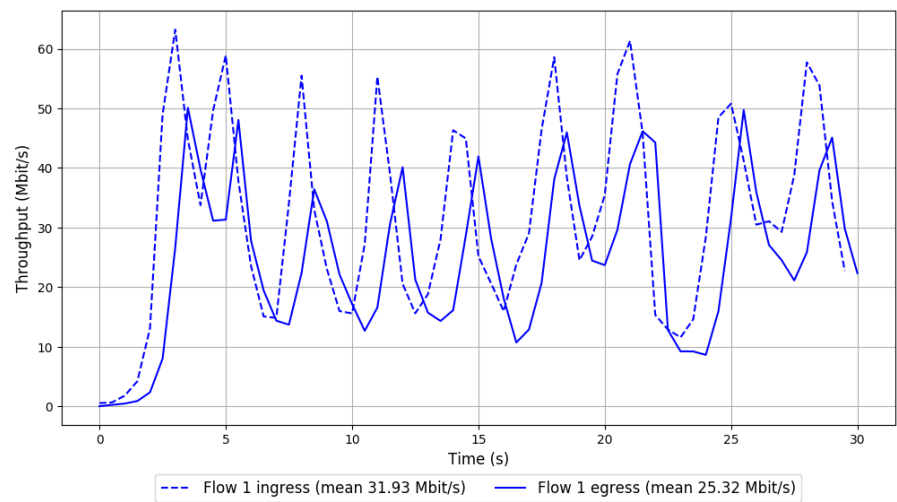


Run 2: Statistics of Copa

Start at: 2019-01-25 12:42:56
End at: 2019-01-25 12:43:26
Local clock offset: 4.616 ms
Remote clock offset: 47.177 ms

Below is generated by plot.py at 2019-01-25 17:24:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 25.32 Mbit/s
95th percentile per-packet one-way delay: 183.338 ms
Loss rate: 21.31%
-- Flow 1:
Average throughput: 25.32 Mbit/s
95th percentile per-packet one-way delay: 183.338 ms
Loss rate: 21.31%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

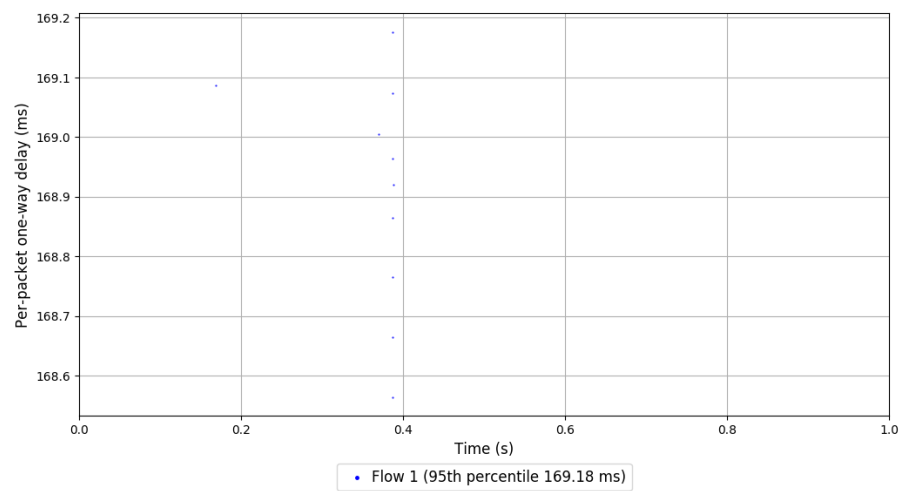
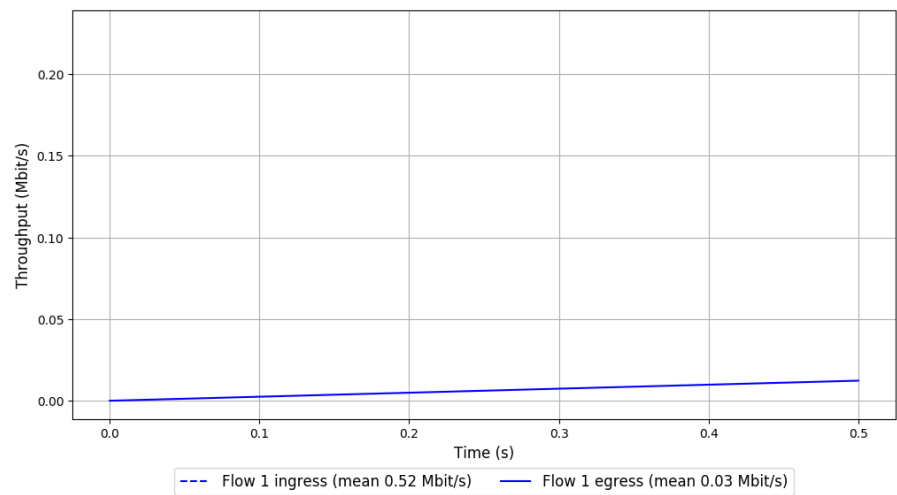
Start at: 2019-01-25 14:19:50

End at: 2019-01-25 14:20:20

Local clock offset: 13.269 ms

Remote clock offset: 50.082 ms

Run 3: Report of Copa — Data Link

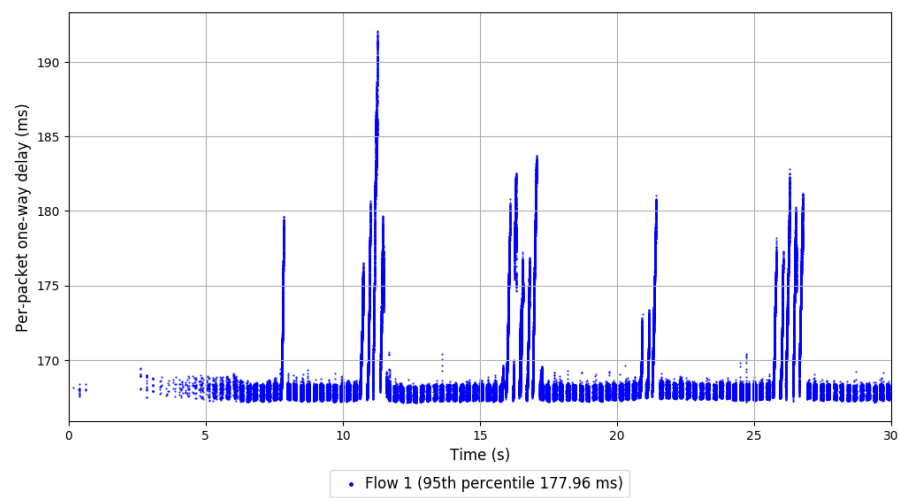
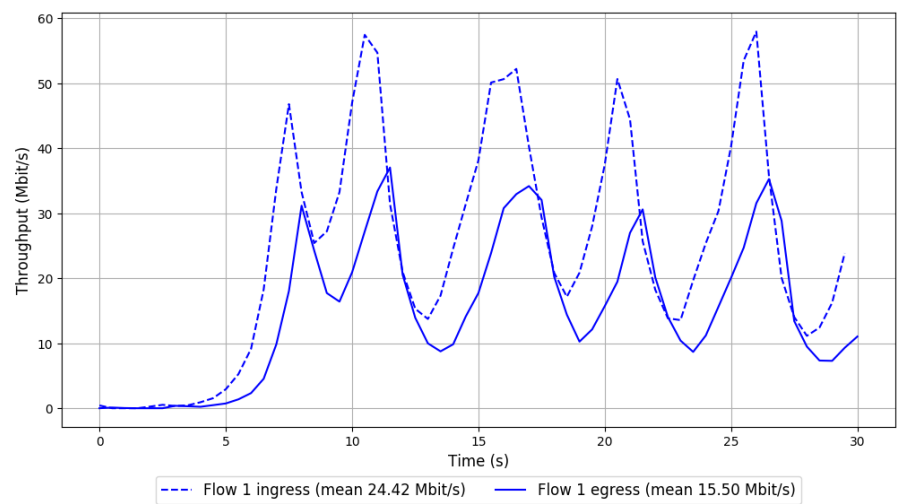


Run 4: Statistics of Copa

Start at: 2019-01-25 15:44:41
End at: 2019-01-25 15:45:11
Local clock offset: 2.863 ms
Remote clock offset: 46.958 ms

Below is generated by plot.py at 2019-01-25 17:24:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.50 Mbit/s
95th percentile per-packet one-way delay: 177.960 ms
Loss rate: 37.01%
-- Flow 1:
Average throughput: 15.50 Mbit/s
95th percentile per-packet one-way delay: 177.960 ms
Loss rate: 37.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

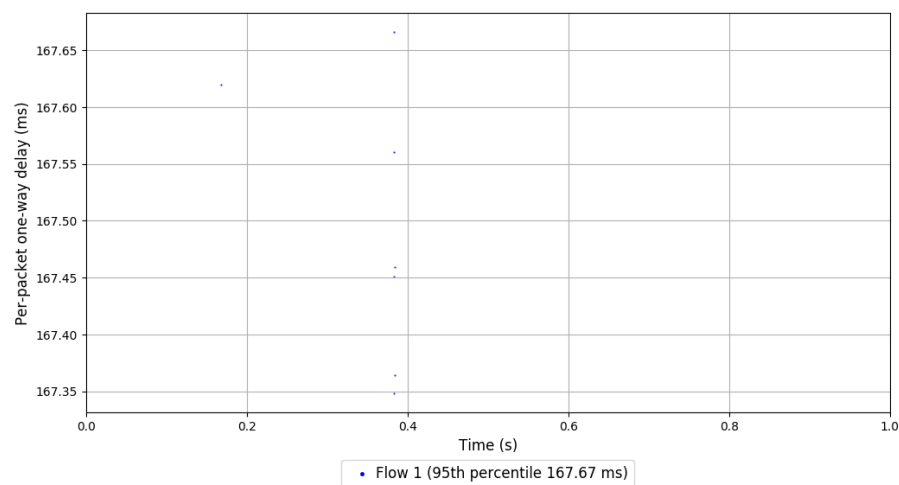
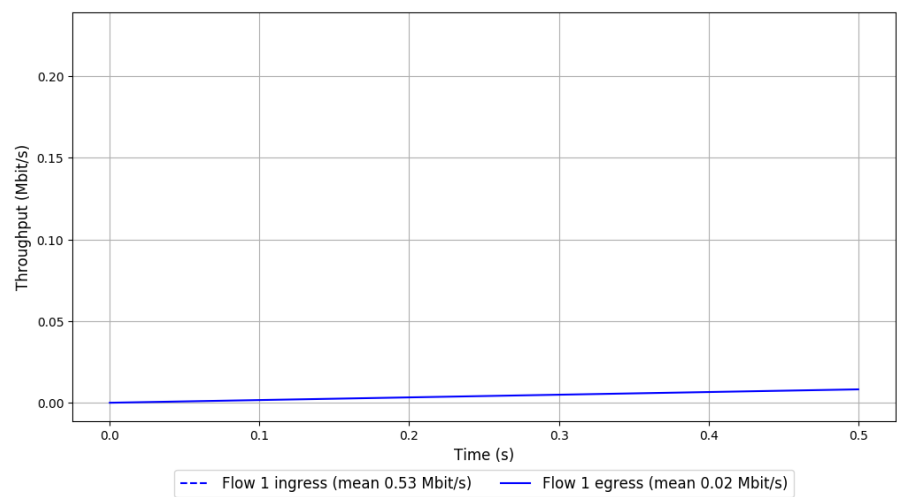
Start at: 2019-01-25 16:59:43

End at: 2019-01-25 17:00:13

Local clock offset: 11.542 ms

Remote clock offset: 47.481 ms

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

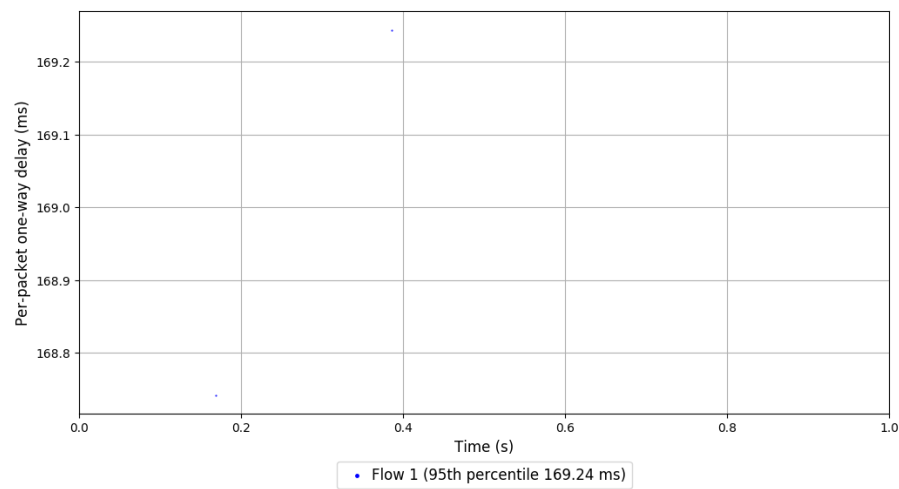
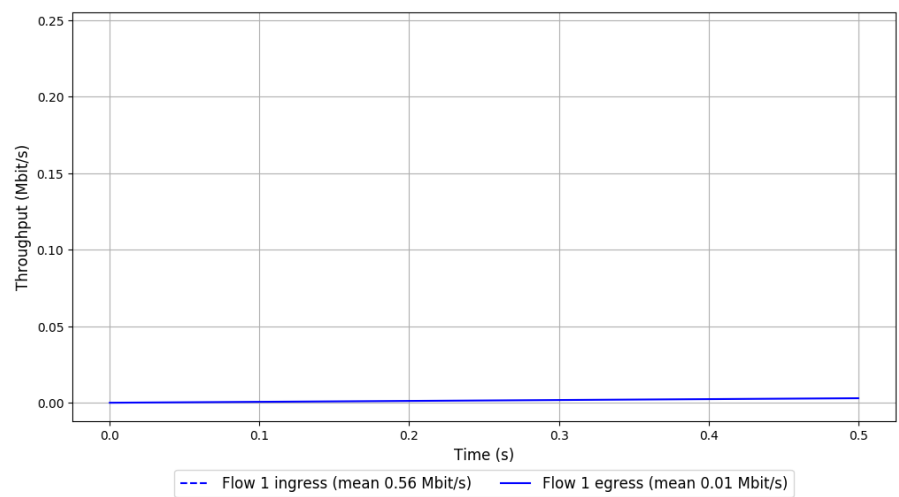
Start at: 2019-01-25 11:37:36

End at: 2019-01-25 11:38:06

Local clock offset: 1.14 ms

Remote clock offset: 52.392 ms

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-01-25 13:12:40

End at: 2019-01-25 13:13:10

Local clock offset: 0.901 ms

Remote clock offset: 49.999 ms

Run 2: Report of TCP Cubic — Data Link

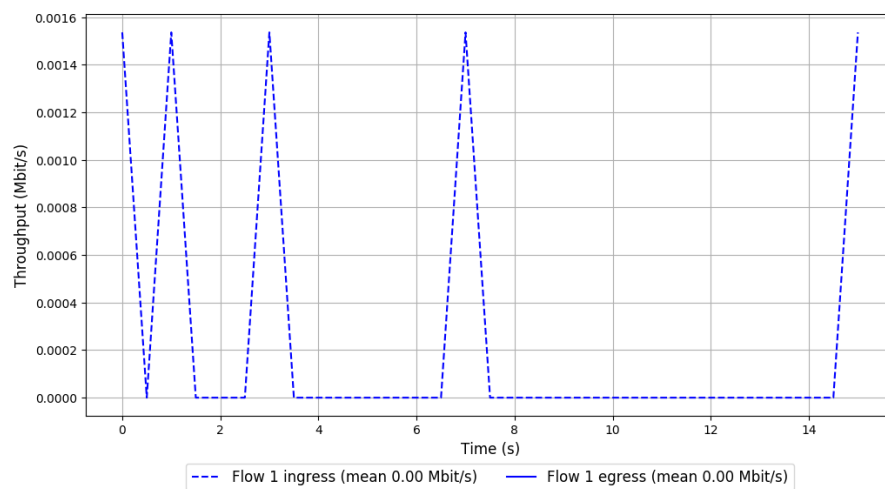


Figure is missing

Run 3: Statistics of TCP Cubic

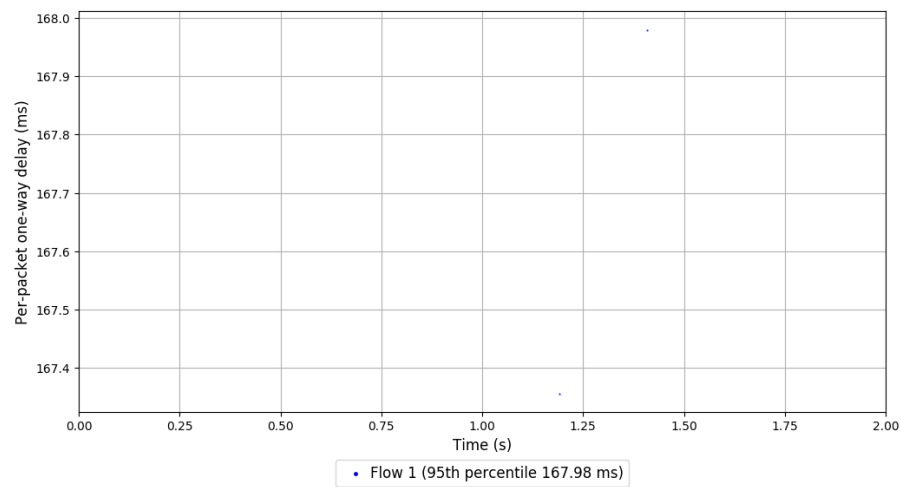
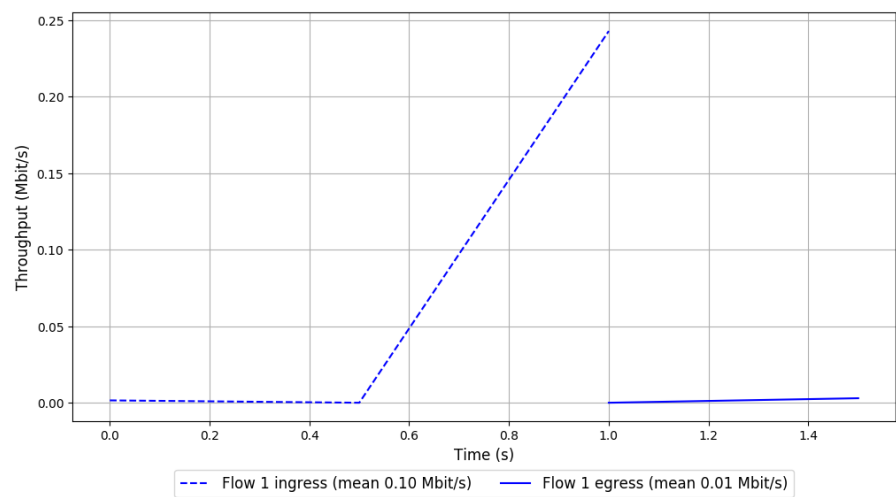
Start at: 2019-01-25 14:37:10

End at: 2019-01-25 14:37:40

Local clock offset: 20.532 ms

Remote clock offset: 50.057 ms

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

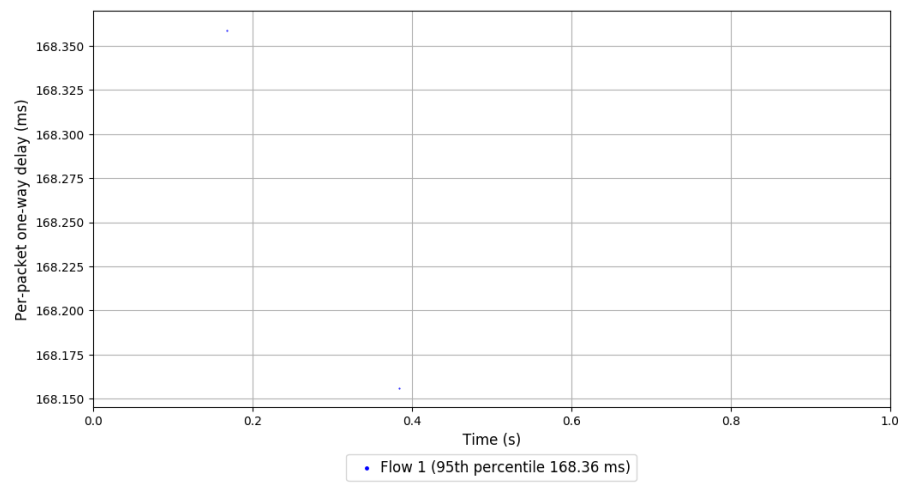
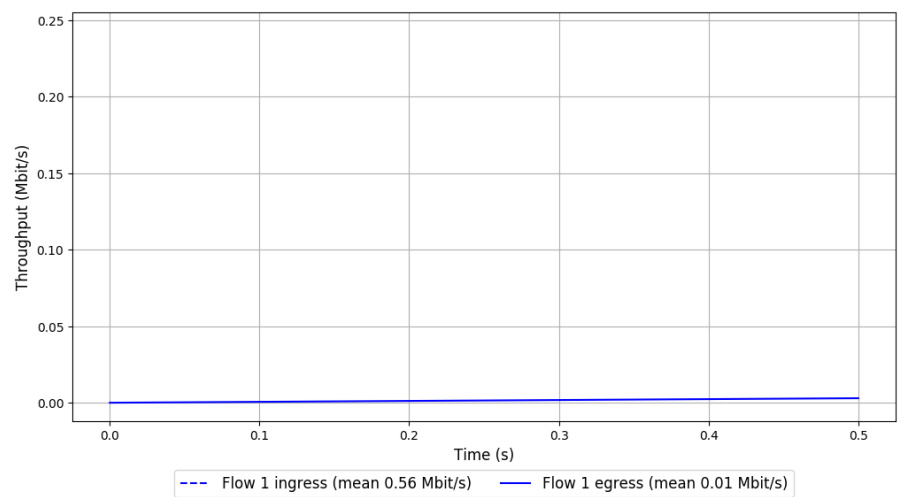
Start at: 2019-01-25 16:04:58

End at: 2019-01-25 16:05:28

Local clock offset: 1.848 ms

Remote clock offset: 45.838 ms

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

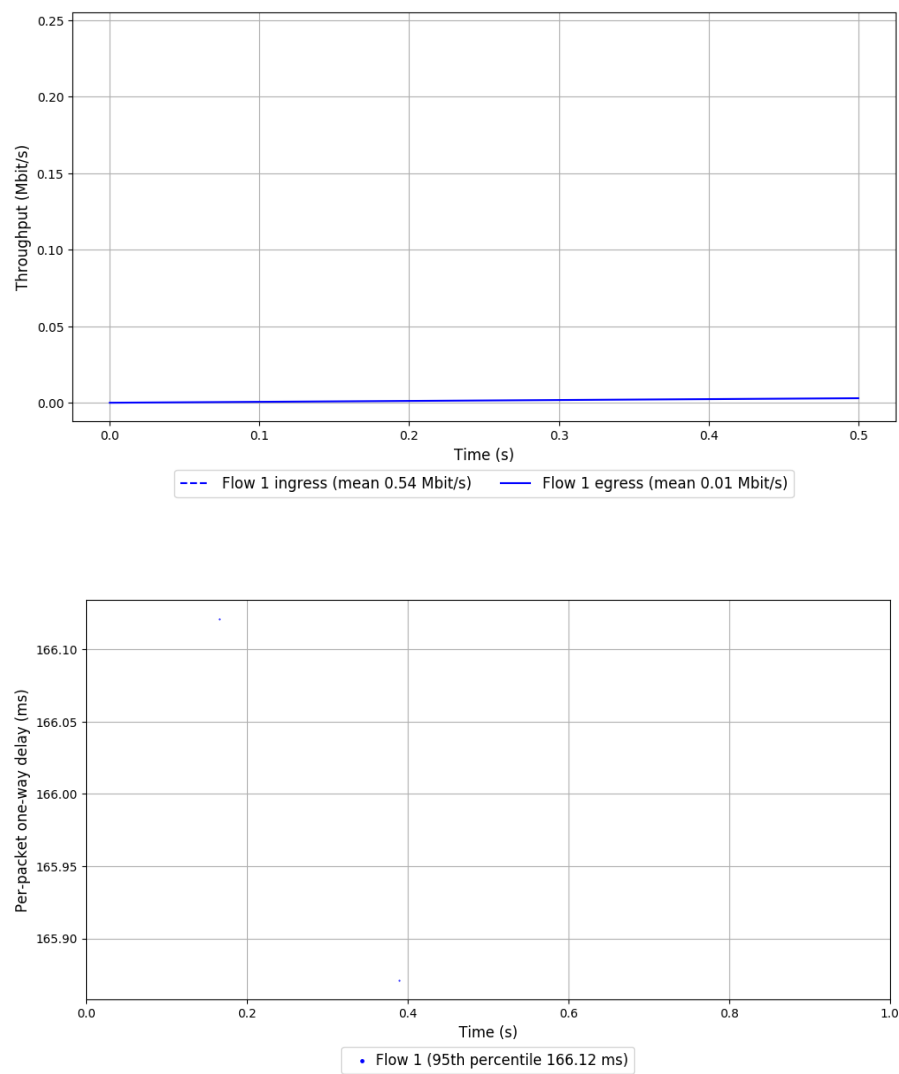
Start at: 2019-01-25 17:14:57

End at: 2019-01-25 17:15:27

Local clock offset: 11.089 ms

Remote clock offset: 49.641 ms

Run 5: Report of TCP Cubic — Data Link

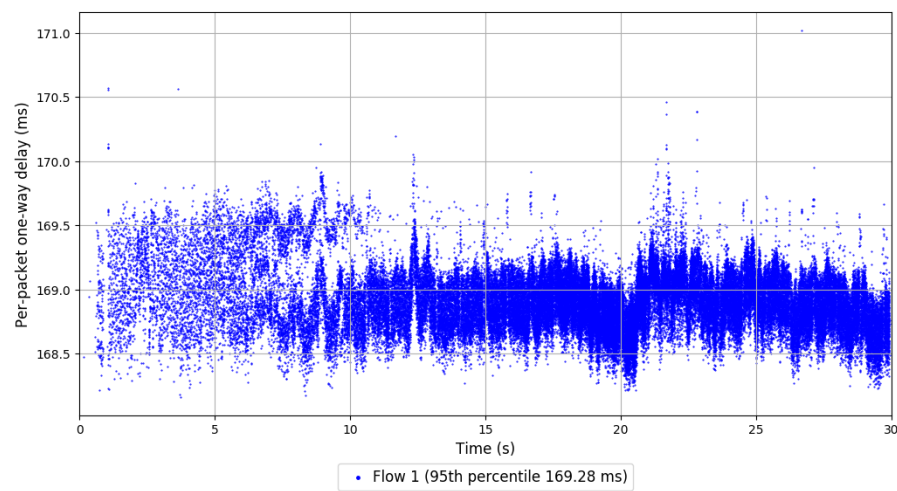
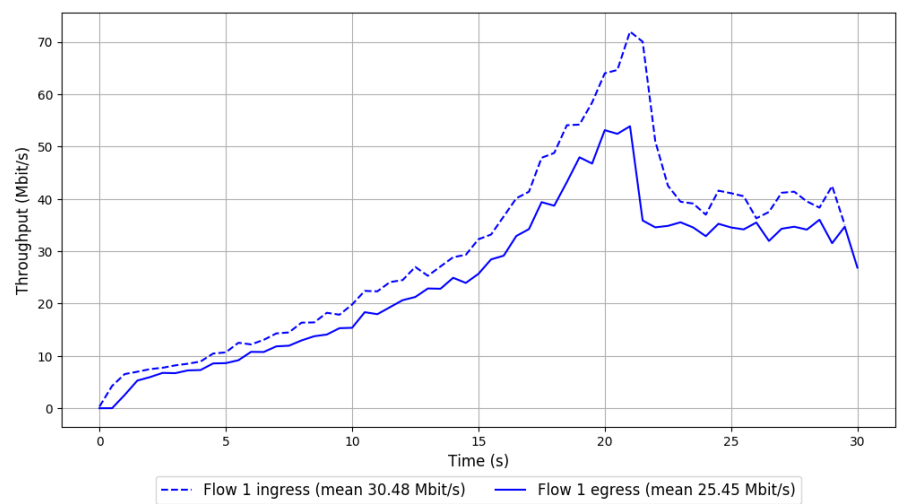


Run 1: Statistics of FillP

Start at: 2019-01-25 11:20:58
End at: 2019-01-25 11:21:28
Local clock offset: -0.65 ms
Remote clock offset: 53.764 ms

Below is generated by plot.py at 2019-01-25 17:24:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 25.45 Mbit/s
95th percentile per-packet one-way delay: 169.284 ms
Loss rate: 17.13%
-- Flow 1:
Average throughput: 25.45 Mbit/s
95th percentile per-packet one-way delay: 169.284 ms
Loss rate: 17.13%

Run 1: Report of FillP — Data Link

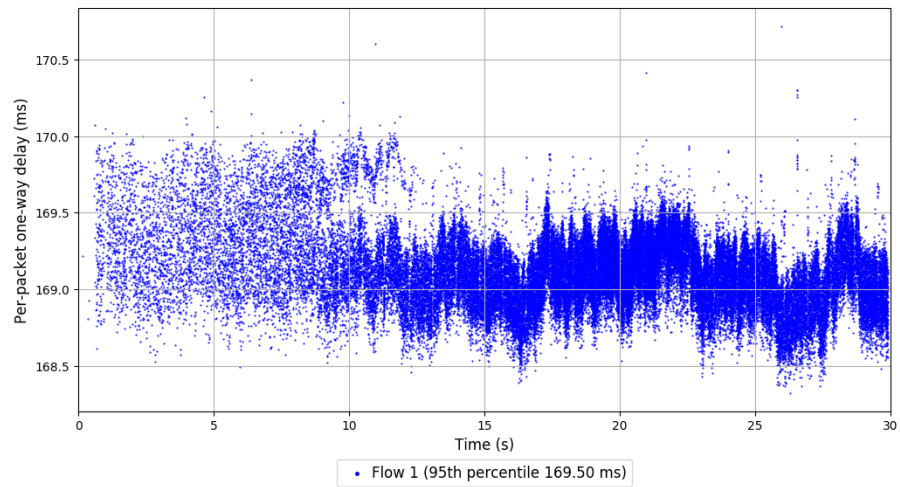
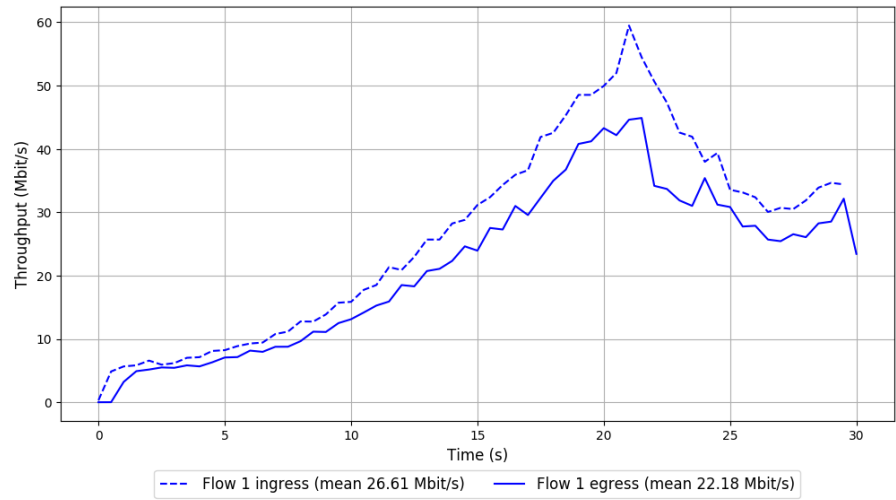


Run 2: Statistics of FillP

Start at: 2019-01-25 12:59:13
End at: 2019-01-25 12:59:44
Local clock offset: 0.104 ms
Remote clock offset: 48.769 ms

Below is generated by plot.py at 2019-01-25 17:24:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 22.18 Mbit/s
95th percentile per-packet one-way delay: 169.504 ms
Loss rate: 17.30%
-- Flow 1:
Average throughput: 22.18 Mbit/s
95th percentile per-packet one-way delay: 169.504 ms
Loss rate: 17.30%

Run 2: Report of FillP — Data Link

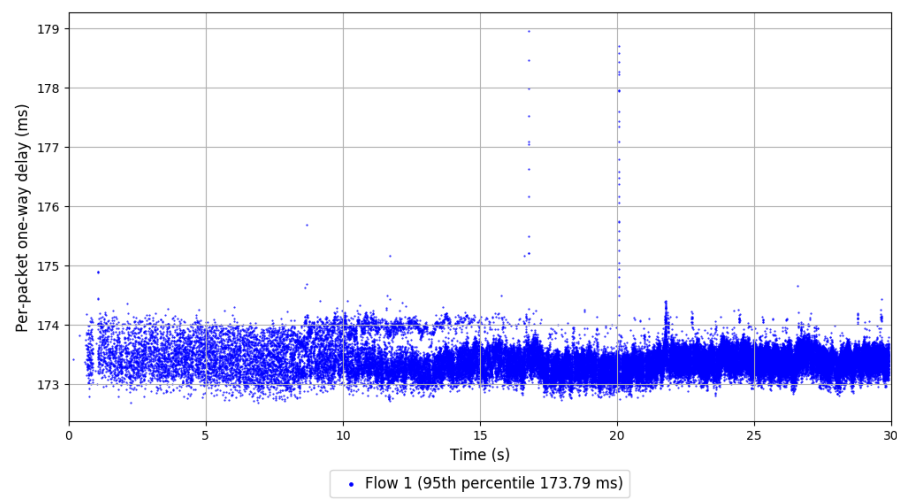
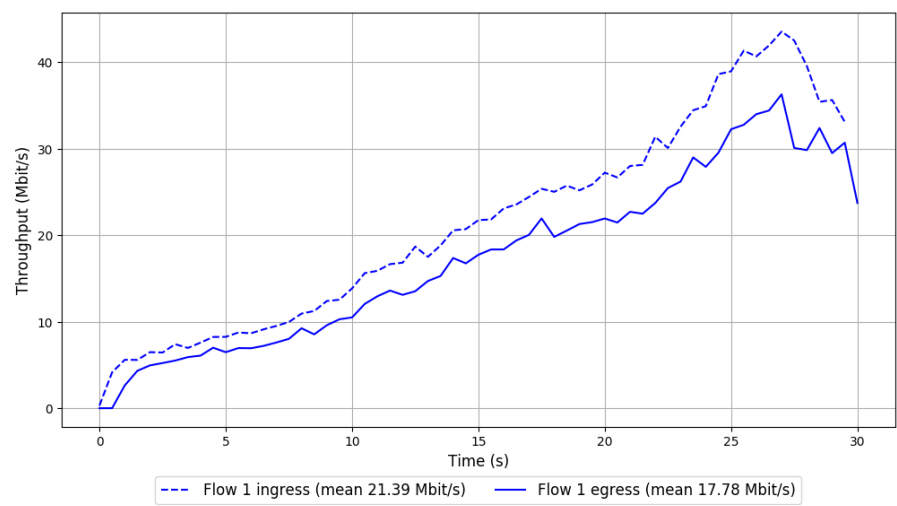


Run 3: Statistics of FillP

Start at: 2019-01-25 14:25:12
End at: 2019-01-25 14:25:42
Local clock offset: 12.637 ms
Remote clock offset: 44.898 ms

Below is generated by plot.py at 2019-01-25 17:24:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 17.78 Mbit/s
95th percentile per-packet one-way delay: 173.790 ms
Loss rate: 17.48%
-- Flow 1:
Average throughput: 17.78 Mbit/s
95th percentile per-packet one-way delay: 173.790 ms
Loss rate: 17.48%

Run 3: Report of FillP — Data Link

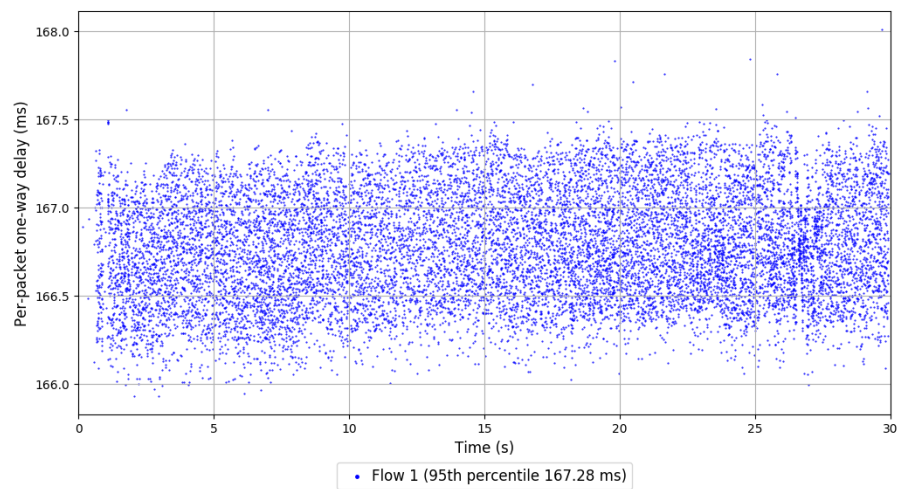
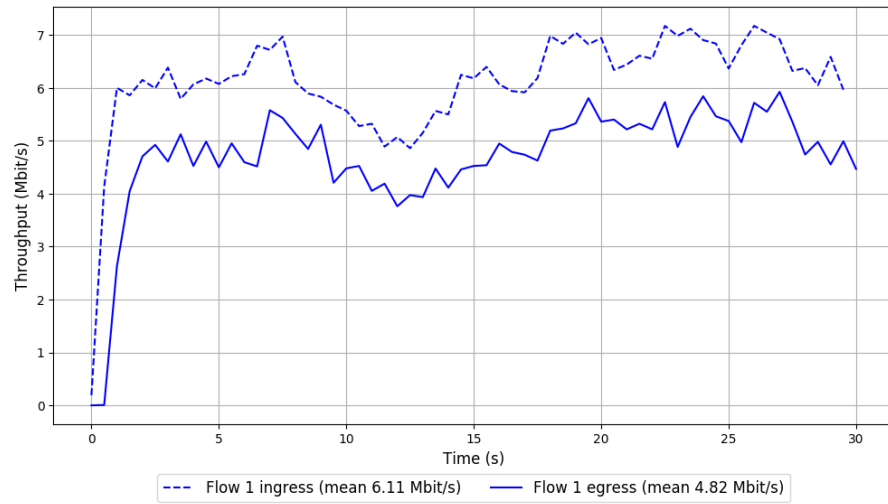


Run 4: Statistics of FillP

Start at: 2019-01-25 15:55:52
End at: 2019-01-25 15:56:22
Local clock offset: 1.218 ms
Remote clock offset: 46.965 ms

Below is generated by plot.py at 2019-01-25 17:24:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.82 Mbit/s
95th percentile per-packet one-way delay: 167.282 ms
Loss rate: 21.76%
-- Flow 1:
Average throughput: 4.82 Mbit/s
95th percentile per-packet one-way delay: 167.282 ms
Loss rate: 21.76%

Run 4: Report of FillP — Data Link

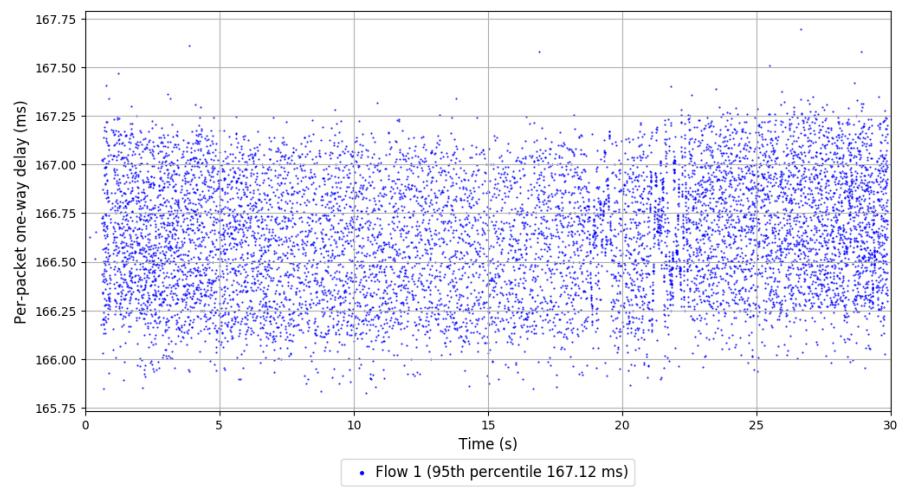
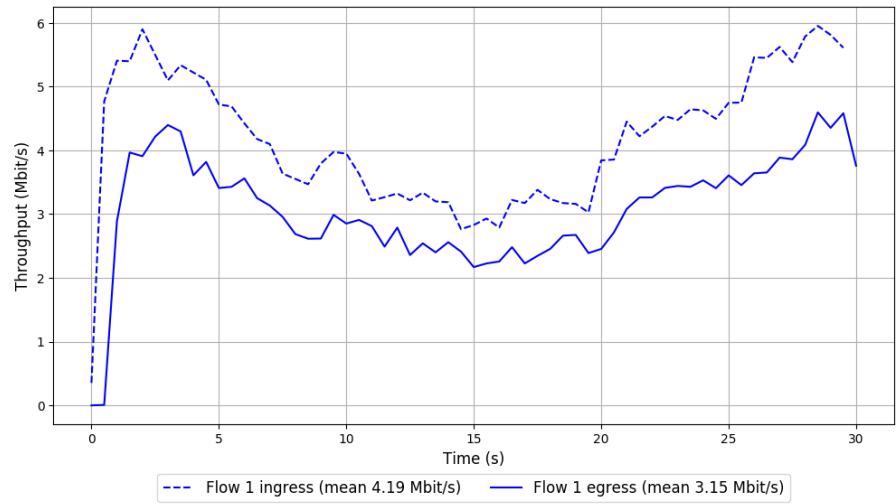


Run 5: Statistics of FillP

Start at: 2019-01-25 17:05:37
End at: 2019-01-25 17:06:07
Local clock offset: 11.252 ms
Remote clock offset: 48.651 ms

Below is generated by plot.py at 2019-01-25 17:24:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.15 Mbit/s
95th percentile per-packet one-way delay: 167.122 ms
Loss rate: 25.32%
-- Flow 1:
Average throughput: 3.15 Mbit/s
95th percentile per-packet one-way delay: 167.122 ms
Loss rate: 25.32%

Run 5: Report of FillP — Data Link

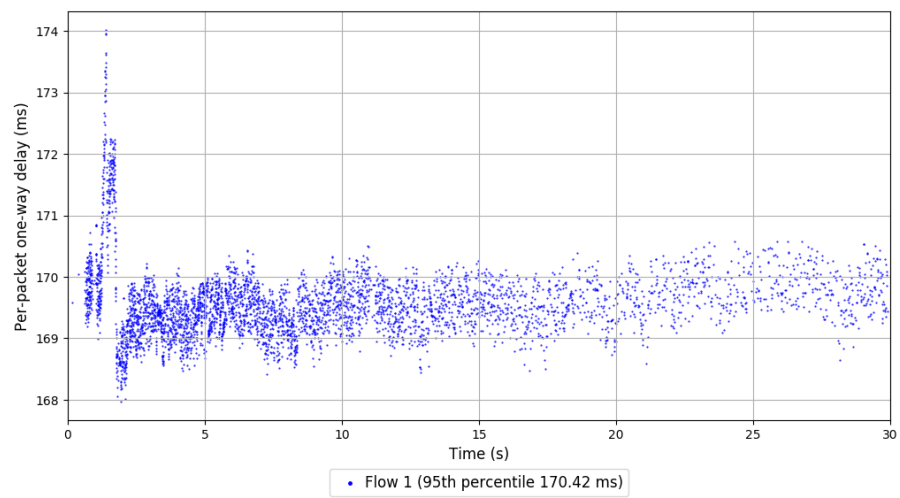
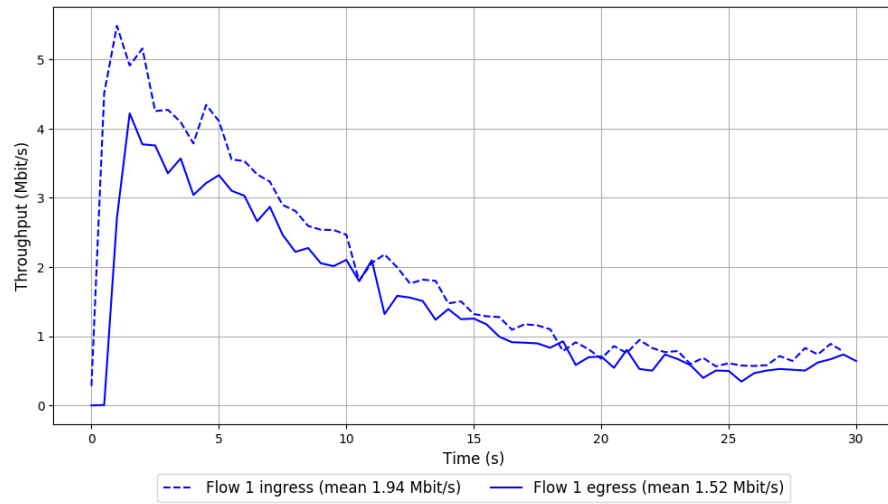


Run 1: Statistics of FillP-Sheep

Start at: 2019-01-25 11:10:20
End at: 2019-01-25 11:10:50
Local clock offset: -0.005 ms
Remote clock offset: 62.044 ms

Below is generated by plot.py at 2019-01-25 17:24:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.52 Mbit/s
95th percentile per-packet one-way delay: 170.420 ms
Loss rate: 22.12%
-- Flow 1:
Average throughput: 1.52 Mbit/s
95th percentile per-packet one-way delay: 170.420 ms
Loss rate: 22.12%

Run 1: Report of FillP-Sheep — Data Link

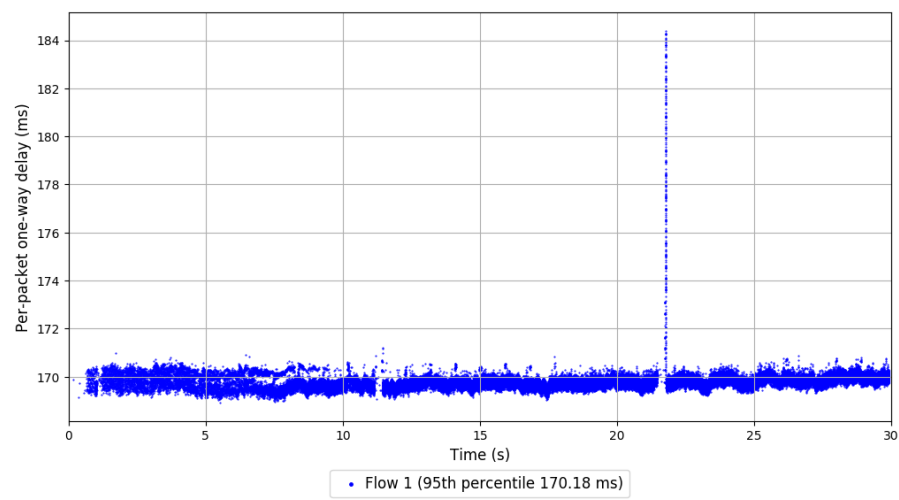
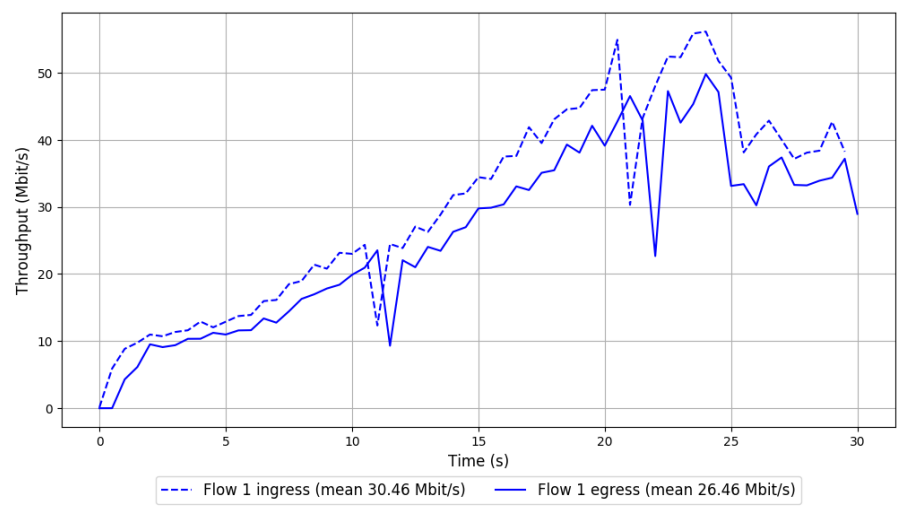


Run 2: Statistics of FillP-Sheep

Start at: 2019-01-25 12:38:03
End at: 2019-01-25 12:38:33
Local clock offset: 7.766 ms
Remote clock offset: 46.684 ms

Below is generated by plot.py at 2019-01-25 17:24:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 26.46 Mbit/s
95th percentile per-packet one-way delay: 170.178 ms
Loss rate: 13.78%
-- Flow 1:
Average throughput: 26.46 Mbit/s
95th percentile per-packet one-way delay: 170.178 ms
Loss rate: 13.78%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-01-25 14:14:51

End at: 2019-01-25 14:15:21

Local clock offset: 14.239 ms

Remote clock offset: 49.68 ms

Below is generated by plot.py at 2019-01-25 17:24:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.68 Mbit/s

95th percentile per-packet one-way delay: 169.580 ms

Loss rate: 17.38%

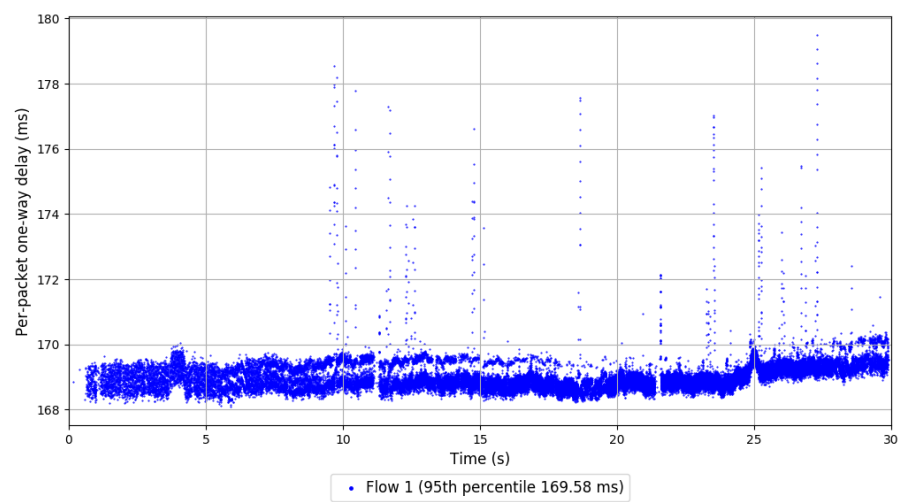
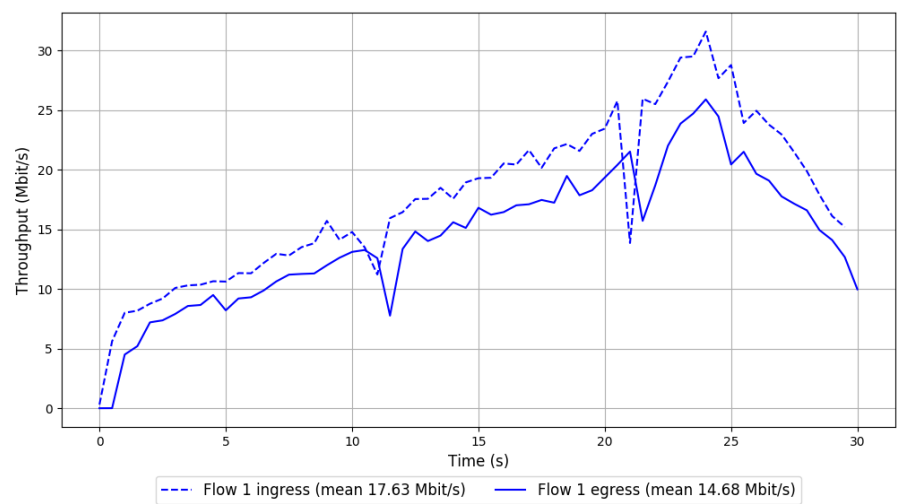
-- Flow 1:

Average throughput: 14.68 Mbit/s

95th percentile per-packet one-way delay: 169.580 ms

Loss rate: 17.38%

Run 3: Report of FillP-Sheep — Data Link

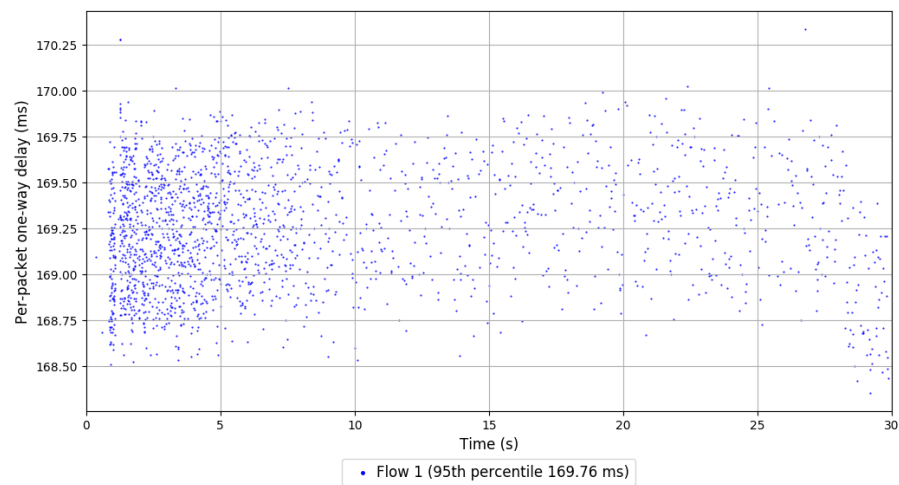
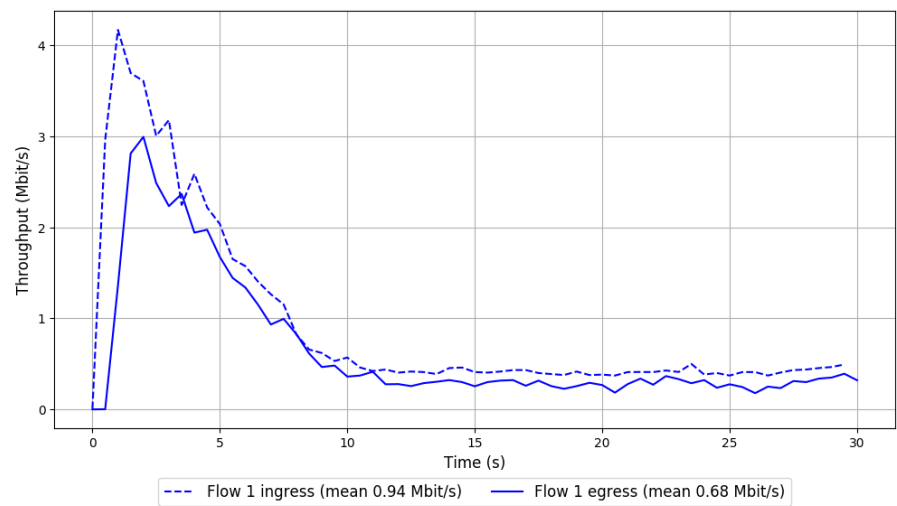


Run 4: Statistics of FillP-Sheep

Start at: 2019-01-25 15:41:22
End at: 2019-01-25 15:41:52
Local clock offset: 3.752 ms
Remote clock offset: 46.499 ms

Below is generated by plot.py at 2019-01-25 17:24:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 169.761 ms
Loss rate: 28.61%
-- Flow 1:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 169.761 ms
Loss rate: 28.61%

Run 4: Report of FillP-Sheep — Data Link

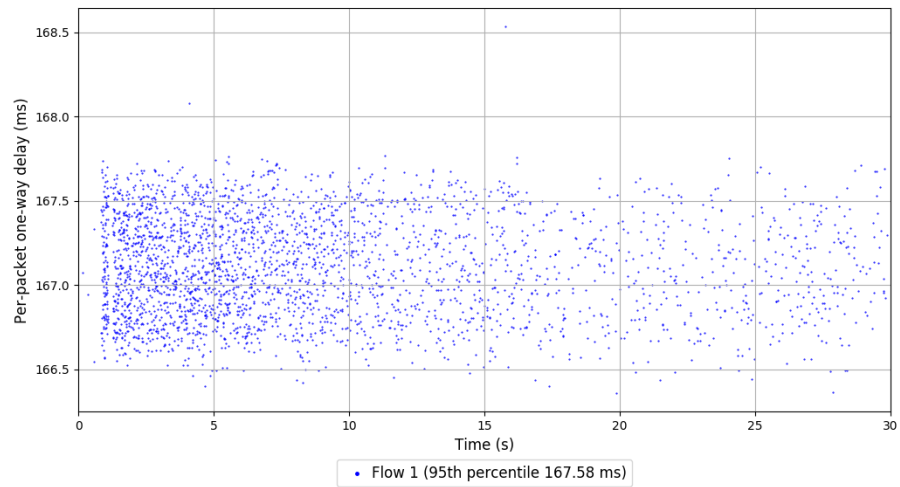
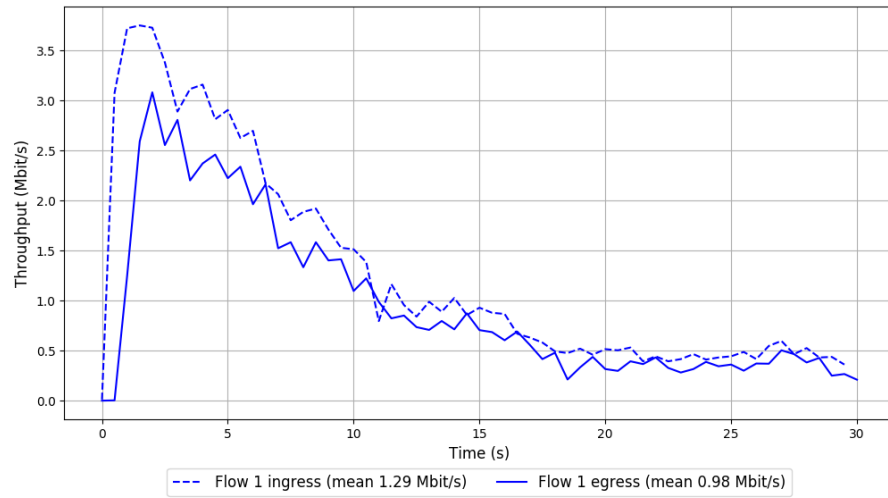


Run 5: Statistics of FillP-Sheep

Start at: 2019-01-25 16:57:00
End at: 2019-01-25 16:57:30
Local clock offset: 11.207 ms
Remote clock offset: 46.987 ms

Below is generated by plot.py at 2019-01-25 17:24:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 167.579 ms
Loss rate: 24.59%
-- Flow 1:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 167.579 ms
Loss rate: 24.59%

Run 5: Report of FillP-Sheep — Data Link

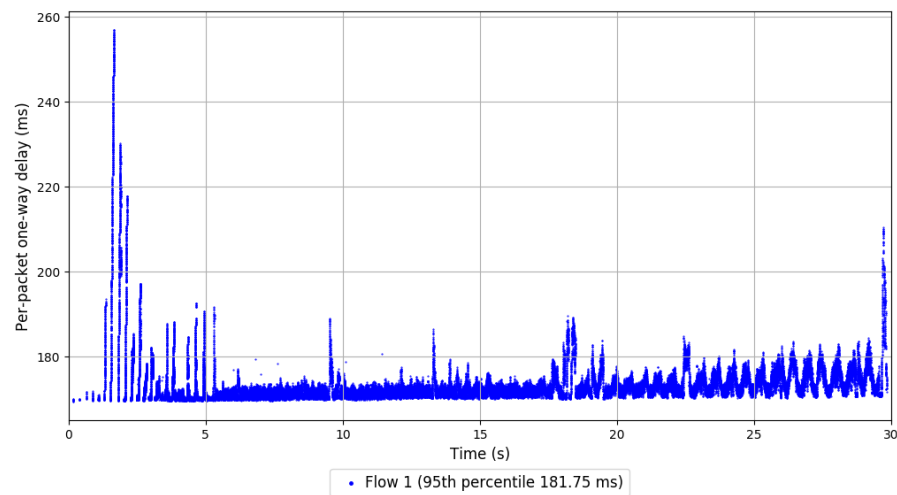
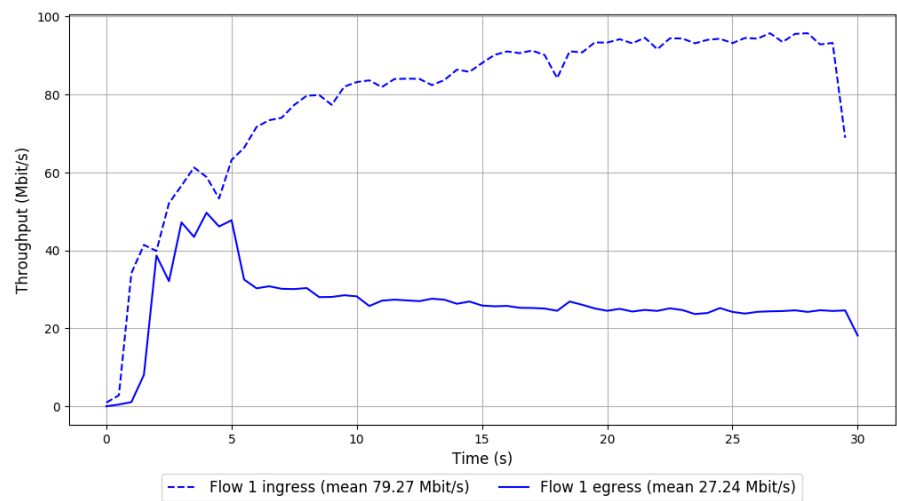


Run 1: Statistics of Indigo

Start at: 2019-01-25 10:52:33
End at: 2019-01-25 10:53:03
Local clock offset: -0.636 ms
Remote clock offset: 39.998 ms

Below is generated by plot.py at 2019-01-25 17:24:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 27.24 Mbit/s
95th percentile per-packet one-way delay: 181.752 ms
Loss rate: 65.89%
-- Flow 1:
Average throughput: 27.24 Mbit/s
95th percentile per-packet one-way delay: 181.752 ms
Loss rate: 65.89%

Run 1: Report of Indigo — Data Link

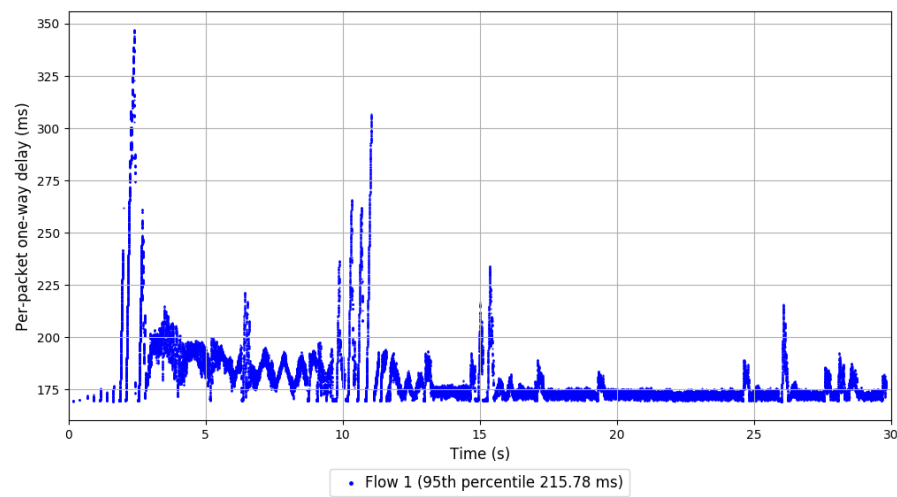
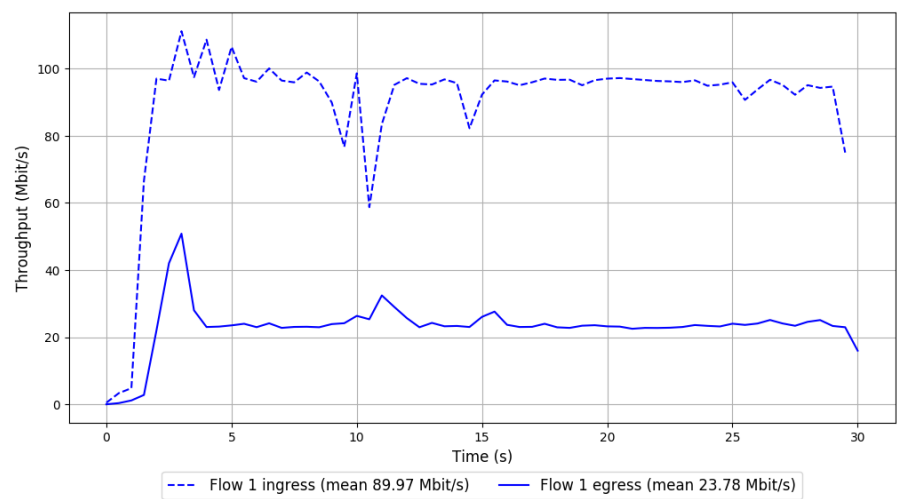


Run 2: Statistics of Indigo

Start at: 2019-01-25 11:54:32
End at: 2019-01-25 11:55:02
Local clock offset: 2.527 ms
Remote clock offset: 47.896 ms

Below is generated by plot.py at 2019-01-25 17:24:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 23.78 Mbit/s
95th percentile per-packet one-way delay: 215.775 ms
Loss rate: 73.77%
-- Flow 1:
Average throughput: 23.78 Mbit/s
95th percentile per-packet one-way delay: 215.775 ms
Loss rate: 73.77%

Run 2: Report of Indigo — Data Link

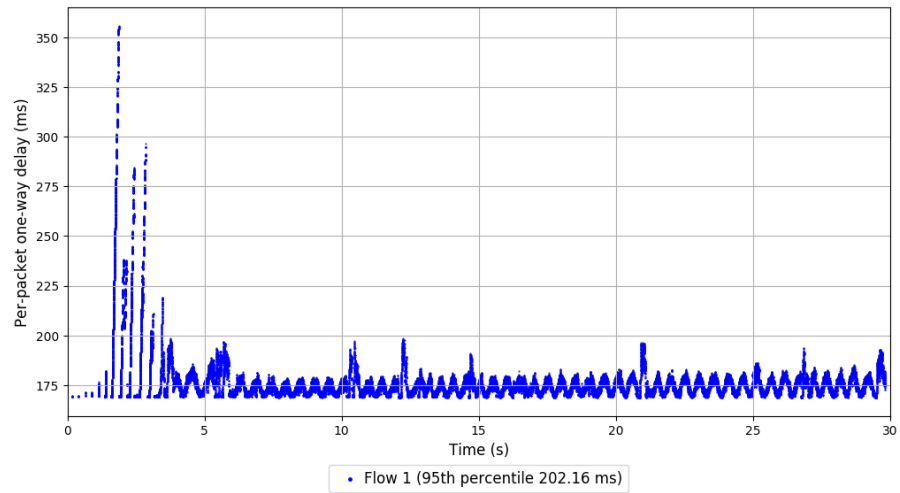
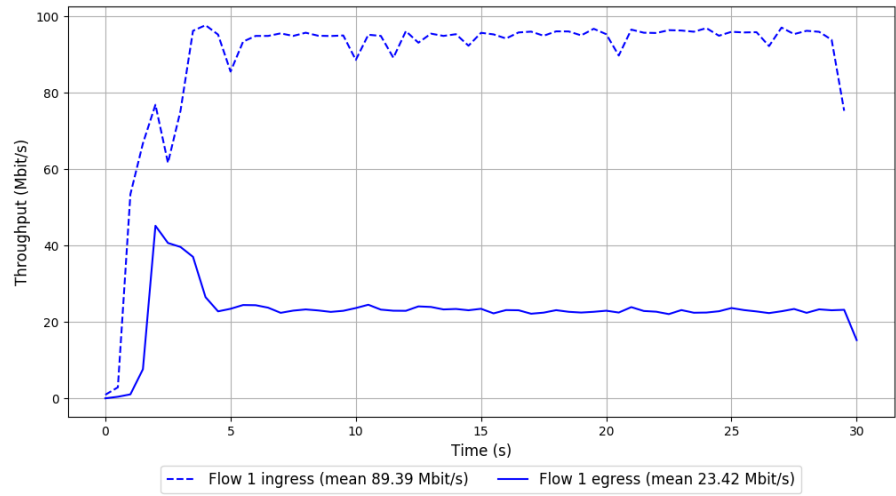


Run 3: Statistics of Indigo

Start at: 2019-01-25 13:43:44
End at: 2019-01-25 13:44:14
Local clock offset: 18.895 ms
Remote clock offset: 49.928 ms

Below is generated by plot.py at 2019-01-25 17:24:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 23.42 Mbit/s
95th percentile per-packet one-way delay: 202.157 ms
Loss rate: 74.02%
-- Flow 1:
Average throughput: 23.42 Mbit/s
95th percentile per-packet one-way delay: 202.157 ms
Loss rate: 74.02%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-01-25 15:08:18

End at: 2019-01-25 15:08:48

Local clock offset: 16.002 ms

Remote clock offset: 47.55 ms

Below is generated by plot.py at 2019-01-25 17:24:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.41 Mbit/s

95th percentile per-packet one-way delay: 232.357 ms

Loss rate: 76.82%

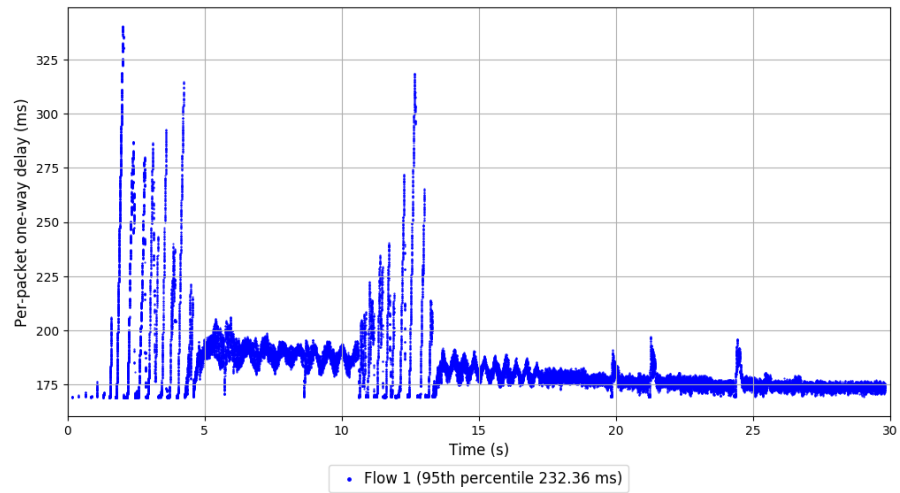
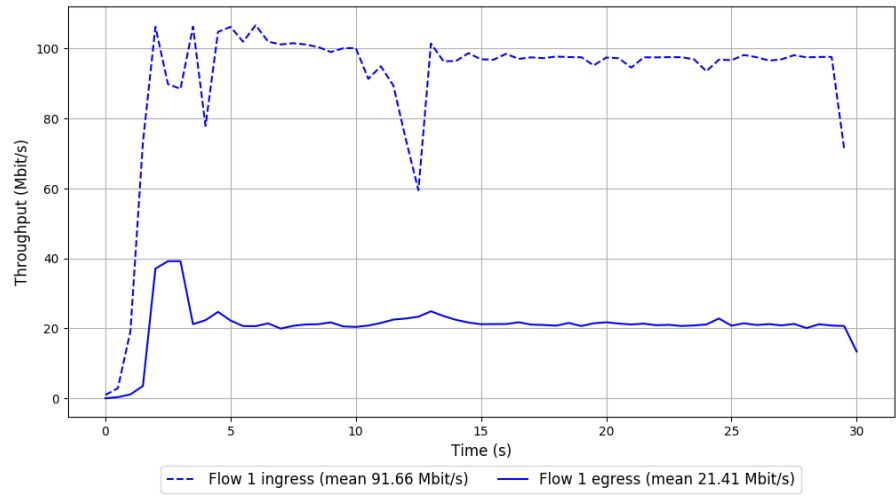
-- Flow 1:

Average throughput: 21.41 Mbit/s

95th percentile per-packet one-way delay: 232.357 ms

Loss rate: 76.82%

Run 4: Report of Indigo — Data Link

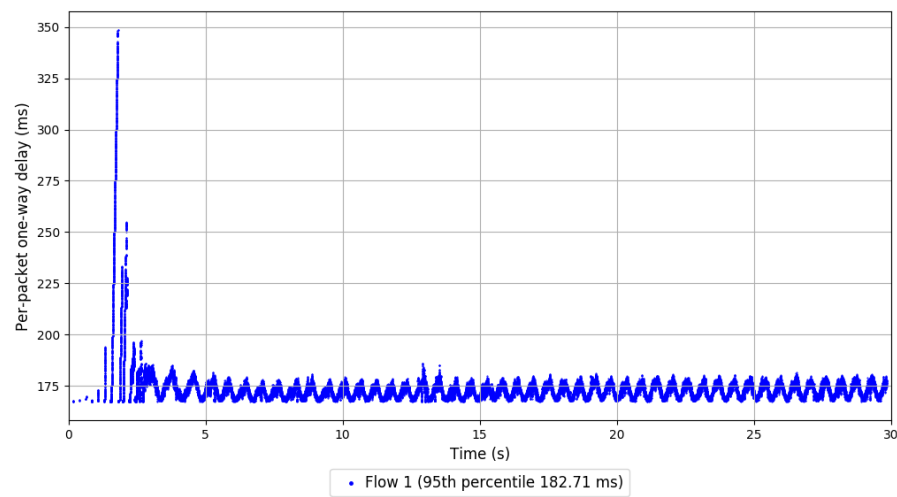
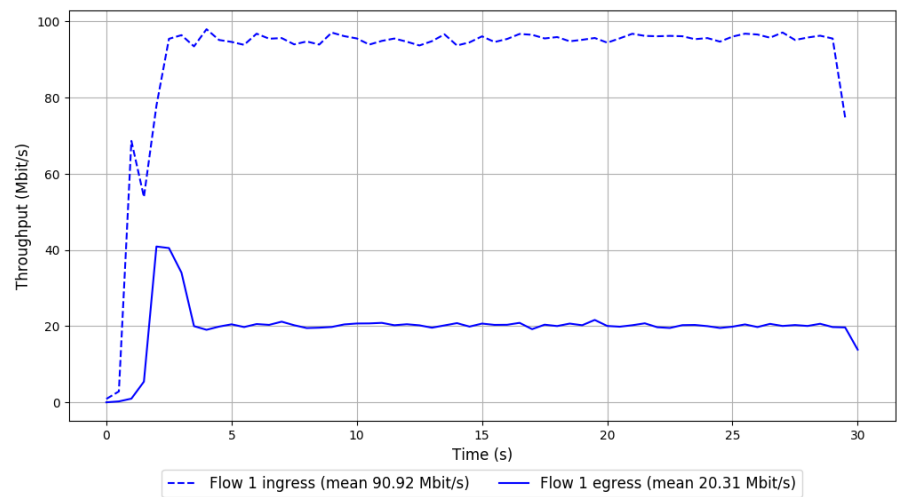


Run 5: Statistics of Indigo

Start at: 2019-01-25 16:26:27
End at: 2019-01-25 16:26:57
Local clock offset: 1.6 ms
Remote clock offset: 46.288 ms

Below is generated by plot.py at 2019-01-25 17:24:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.31 Mbit/s
95th percentile per-packet one-way delay: 182.713 ms
Loss rate: 77.82%
-- Flow 1:
Average throughput: 20.31 Mbit/s
95th percentile per-packet one-way delay: 182.713 ms
Loss rate: 77.82%

Run 5: Report of Indigo — Data Link

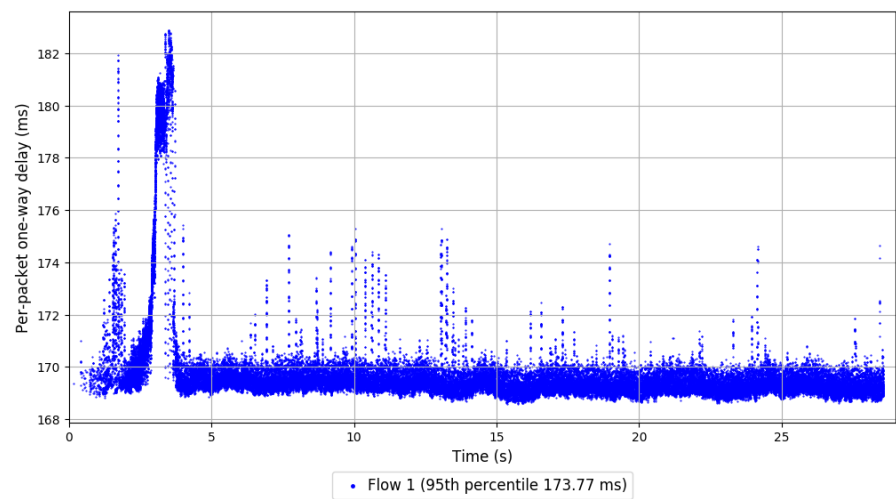
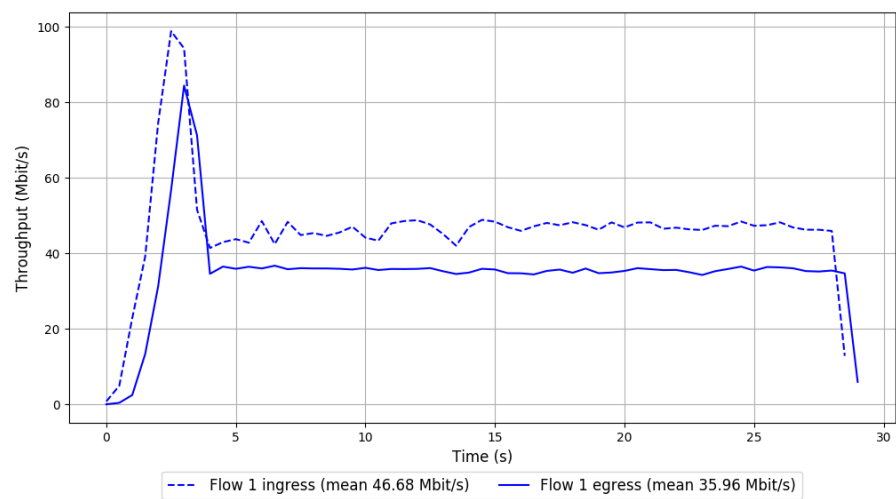


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-01-25 11:29:12
End at: 2019-01-25 11:29:42
Local clock offset: -1.355 ms
Remote clock offset: 51.256 ms

Below is generated by plot.py at 2019-01-25 17:24:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 35.96 Mbit/s
95th percentile per-packet one-way delay: 173.773 ms
Loss rate: 23.58%
-- Flow 1:
Average throughput: 35.96 Mbit/s
95th percentile per-packet one-way delay: 173.773 ms
Loss rate: 23.58%

Run 1: Report of Indigo-MusesC3 — Data Link

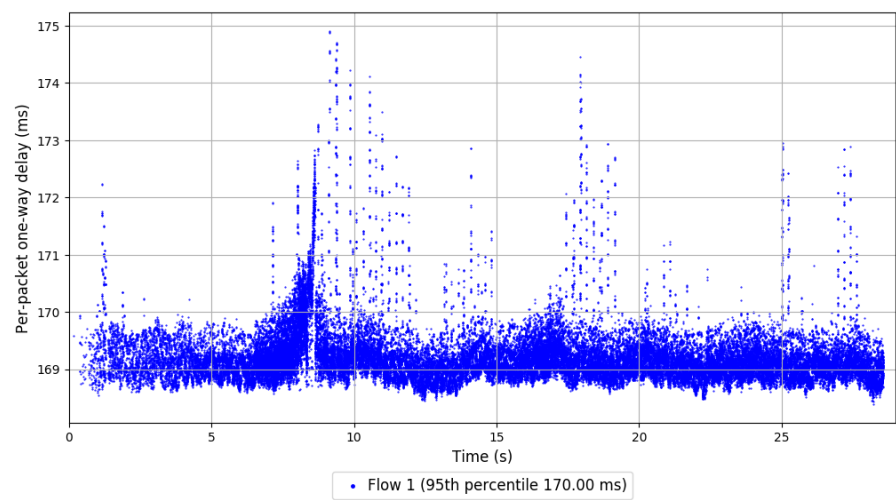
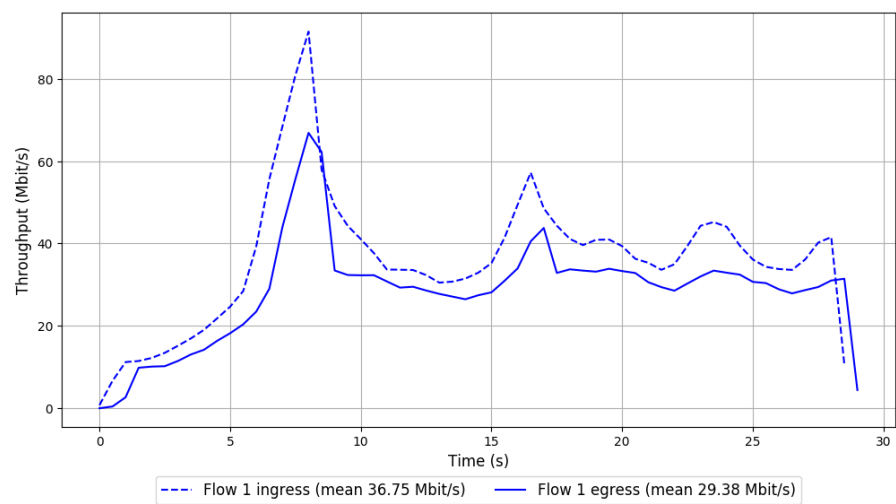


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-01-25 13:07:49
End at: 2019-01-25 13:08:19
Local clock offset: 0.808 ms
Remote clock offset: 49.684 ms

Below is generated by plot.py at 2019-01-25 17:24:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 29.38 Mbit/s
95th percentile per-packet one-way delay: 170.001 ms
Loss rate: 20.69%
-- Flow 1:
Average throughput: 29.38 Mbit/s
95th percentile per-packet one-way delay: 170.001 ms
Loss rate: 20.69%

Run 2: Report of Indigo-MusesC3 — Data Link

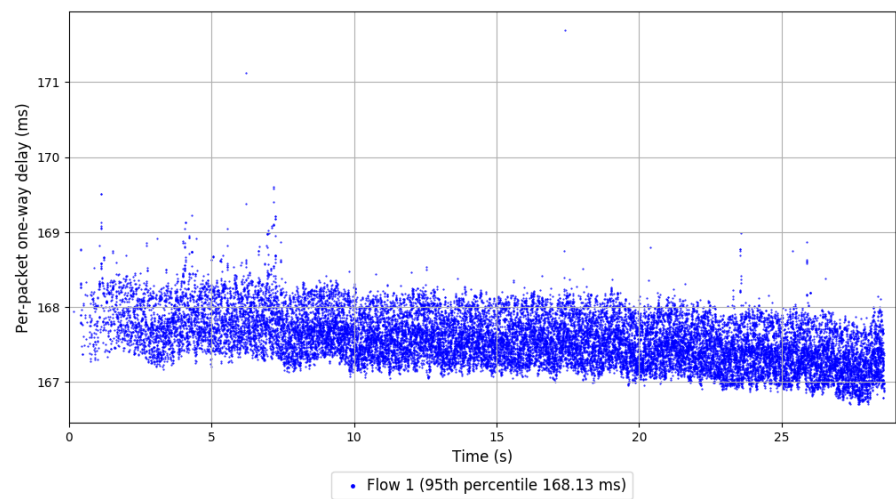
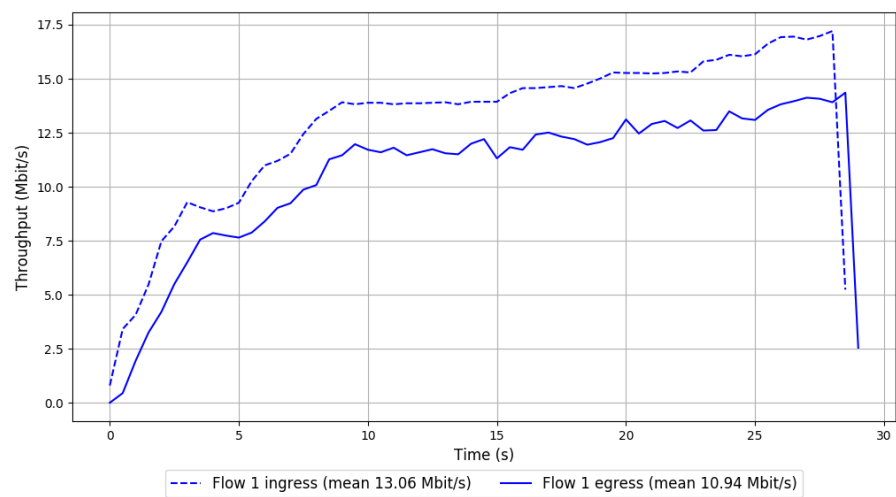


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-01-25 14:34:19
End at: 2019-01-25 14:34:49
Local clock offset: 18.376 ms
Remote clock offset: 50.226 ms

Below is generated by plot.py at 2019-01-25 17:24:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 10.94 Mbit/s
95th percentile per-packet one-way delay: 168.127 ms
Loss rate: 16.95%
-- Flow 1:
Average throughput: 10.94 Mbit/s
95th percentile per-packet one-way delay: 168.127 ms
Loss rate: 16.95%

Run 3: Report of Indigo-MusesC3 — Data Link

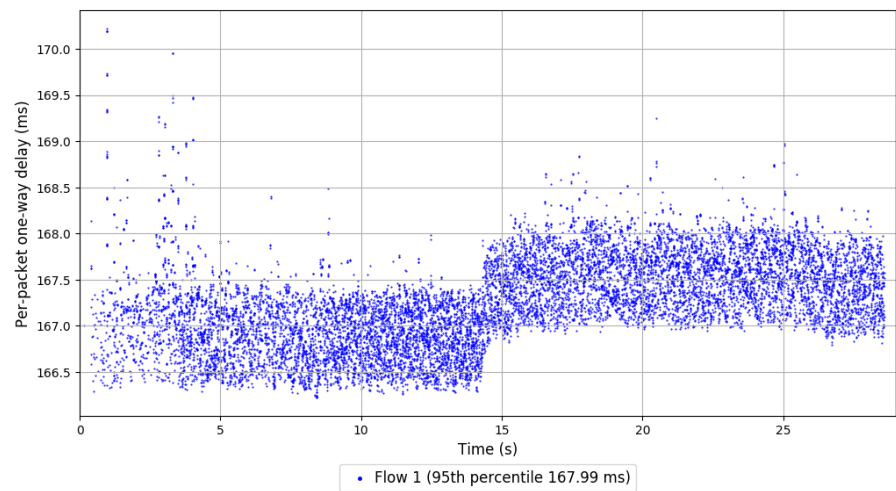
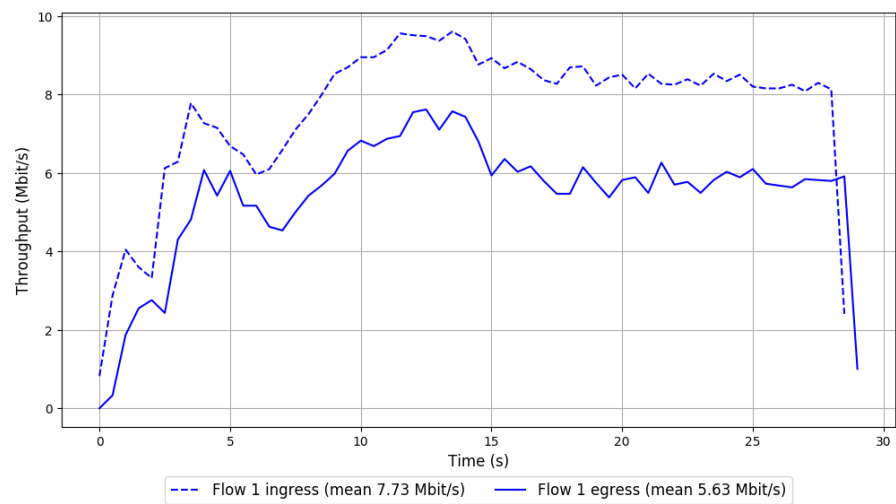


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-01-25 16:00:47
End at: 2019-01-25 16:01:17
Local clock offset: 0.686 ms
Remote clock offset: 46.961 ms

Below is generated by plot.py at 2019-01-25 17:24:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.63 Mbit/s
95th percentile per-packet one-way delay: 167.987 ms
Loss rate: 27.67%
-- Flow 1:
Average throughput: 5.63 Mbit/s
95th percentile per-packet one-way delay: 167.987 ms
Loss rate: 27.67%

Run 4: Report of Indigo-MusesC3 — Data Link

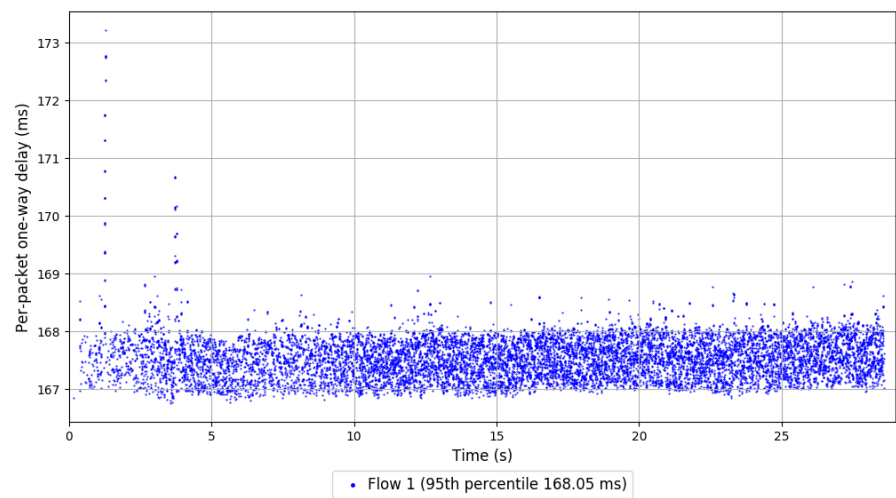
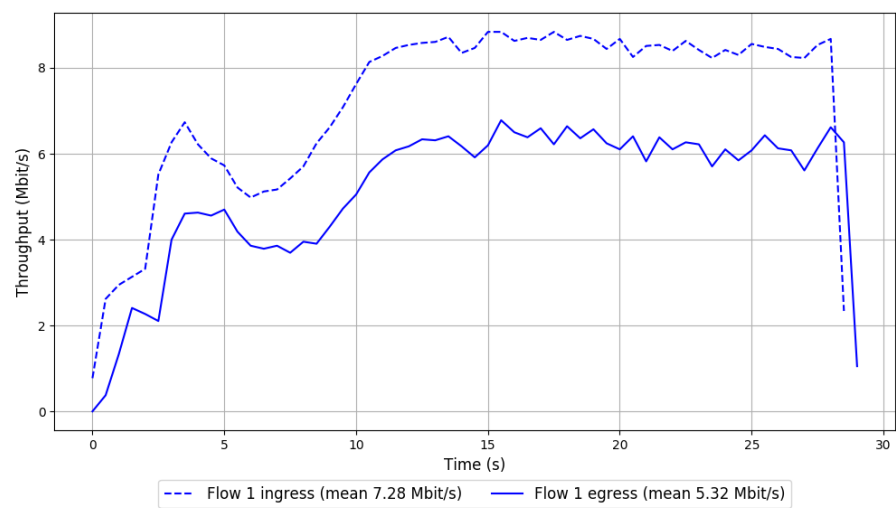


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-01-25 17:09:43
End at: 2019-01-25 17:10:13
Local clock offset: 11.075 ms
Remote clock offset: 48.291 ms

Below is generated by plot.py at 2019-01-25 17:24:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.32 Mbit/s
95th percentile per-packet one-way delay: 168.046 ms
Loss rate: 27.41%
-- Flow 1:
Average throughput: 5.32 Mbit/s
95th percentile per-packet one-way delay: 168.046 ms
Loss rate: 27.41%

Run 5: Report of Indigo-MusesC3 — Data Link

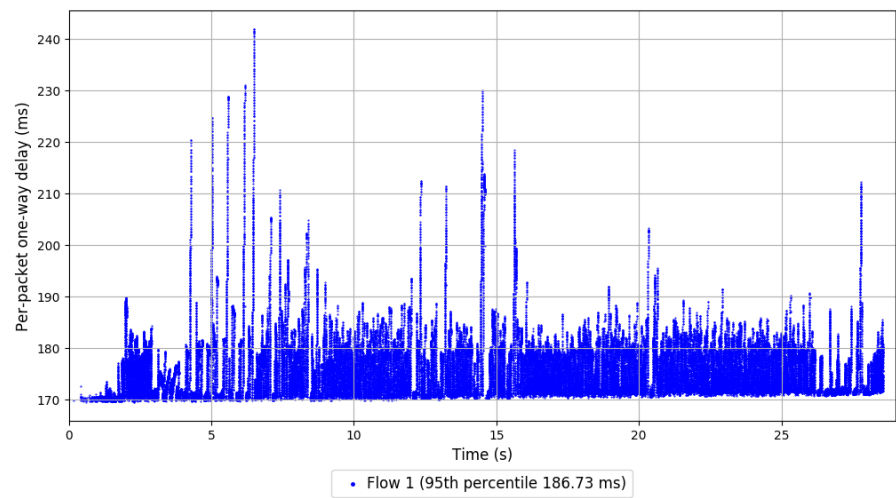
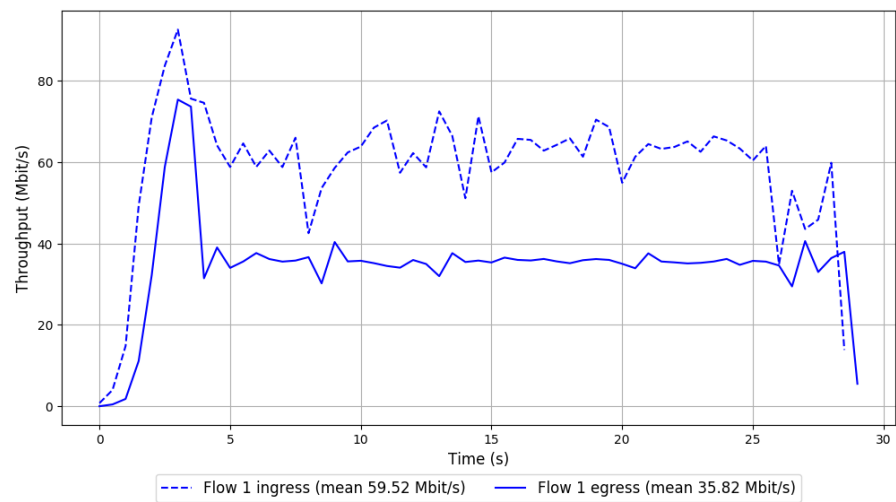


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-01-25 10:46:39
End at: 2019-01-25 10:47:09
Local clock offset: -0.039 ms
Remote clock offset: 24.895 ms

Below is generated by plot.py at 2019-01-25 17:25:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 35.82 Mbit/s
95th percentile per-packet one-way delay: 186.728 ms
Loss rate: 40.29%
-- Flow 1:
Average throughput: 35.82 Mbit/s
95th percentile per-packet one-way delay: 186.728 ms
Loss rate: 40.29%

Run 1: Report of Indigo-MusesC5 — Data Link

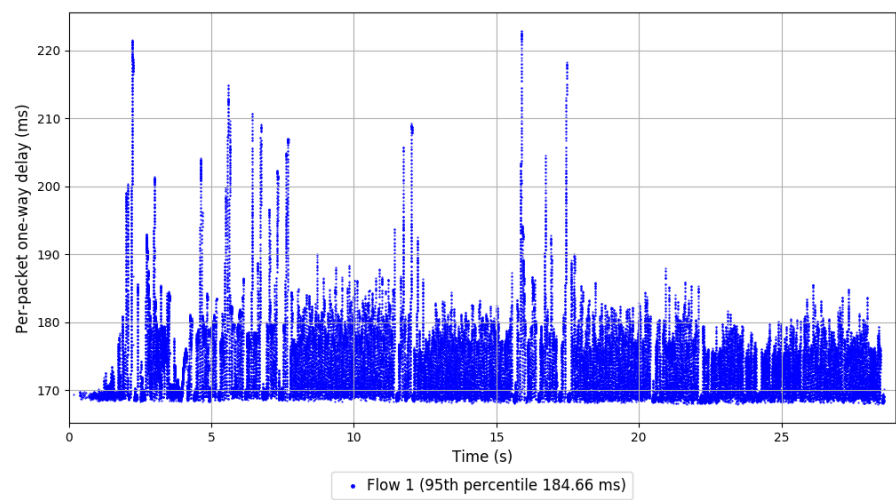
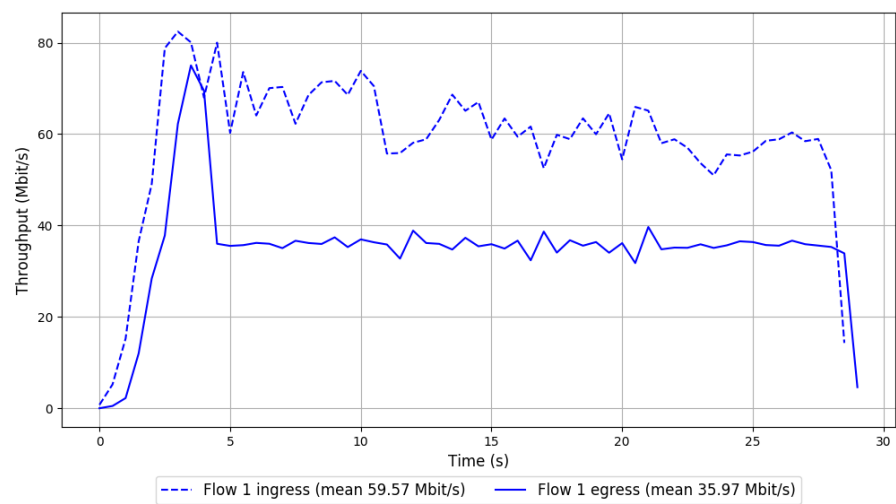


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-01-25 11:48:11
End at: 2019-01-25 11:48:41
Local clock offset: 2.229 ms
Remote clock offset: 52.942 ms

Below is generated by plot.py at 2019-01-25 17:25:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 35.97 Mbit/s
95th percentile per-packet one-way delay: 184.663 ms
Loss rate: 40.02%
-- Flow 1:
Average throughput: 35.97 Mbit/s
95th percentile per-packet one-way delay: 184.663 ms
Loss rate: 40.02%

Run 2: Report of Indigo-MusesC5 — Data Link

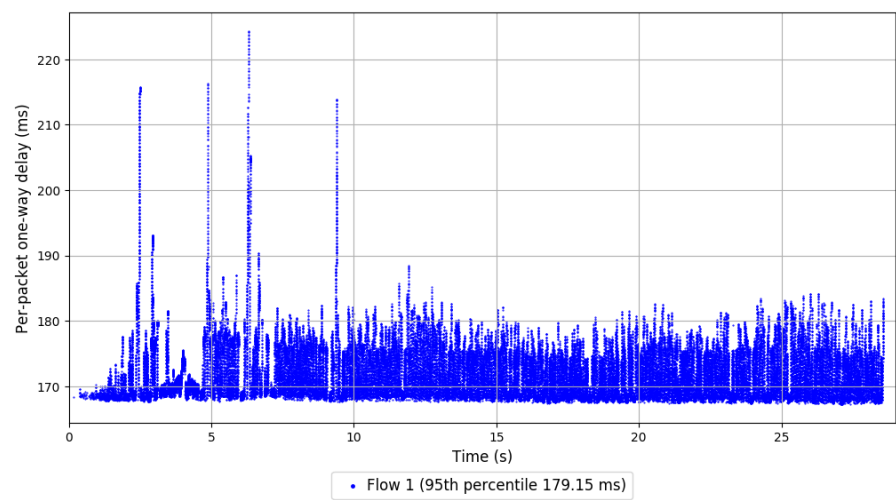
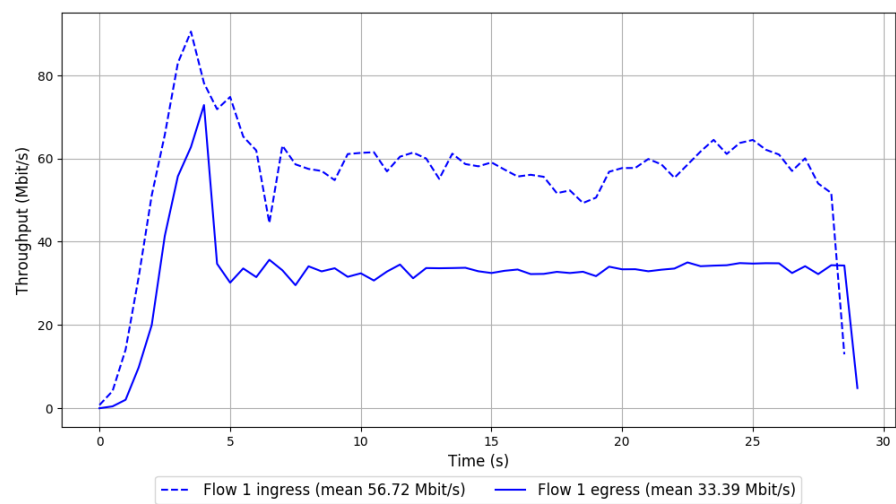


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-01-25 13:37:09
End at: 2019-01-25 13:37:39
Local clock offset: 12.934 ms
Remote clock offset: 49.838 ms

Below is generated by plot.py at 2019-01-25 17:25:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 33.39 Mbit/s
95th percentile per-packet one-way delay: 179.148 ms
Loss rate: 41.61%
-- Flow 1:
Average throughput: 33.39 Mbit/s
95th percentile per-packet one-way delay: 179.148 ms
Loss rate: 41.61%

Run 3: Report of Indigo-MusesC5 — Data Link

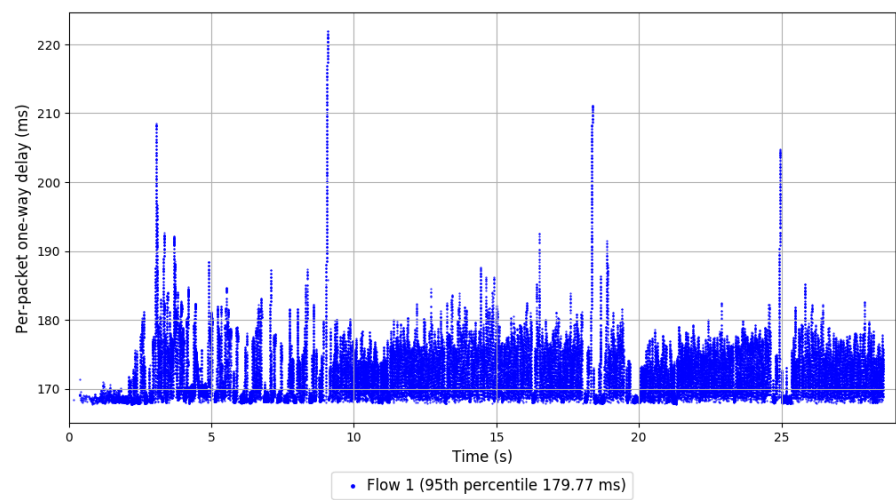
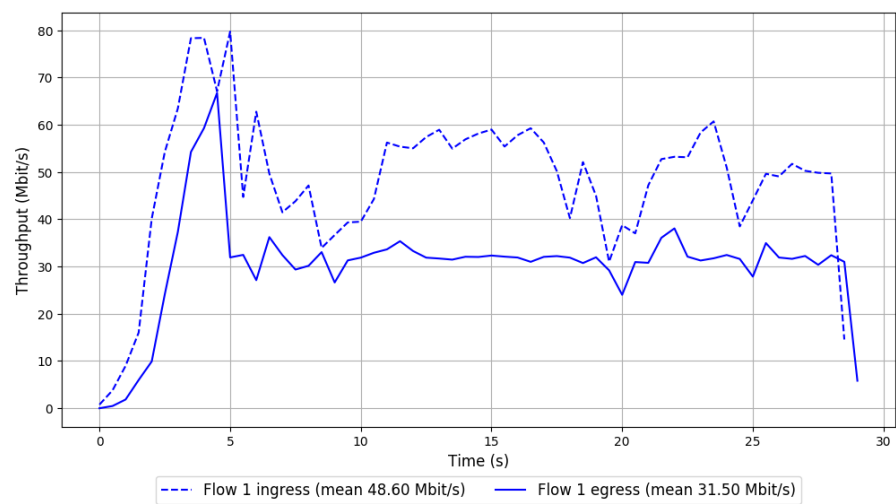


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-01-25 14:54:52
End at: 2019-01-25 14:55:22
Local clock offset: 28.386 ms
Remote clock offset: 47.698 ms

Below is generated by plot.py at 2019-01-25 17:25:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 31.50 Mbit/s
95th percentile per-packet one-way delay: 179.772 ms
Loss rate: 35.71%
-- Flow 1:
Average throughput: 31.50 Mbit/s
95th percentile per-packet one-way delay: 179.772 ms
Loss rate: 35.71%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-01-25 16:17:32

End at: 2019-01-25 16:18:02

Local clock offset: 2.133 ms

Remote clock offset: 45.66 ms

Below is generated by plot.py at 2019-01-25 17:25:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.87 Mbit/s

95th percentile per-packet one-way delay: 176.774 ms

Loss rate: 36.83%

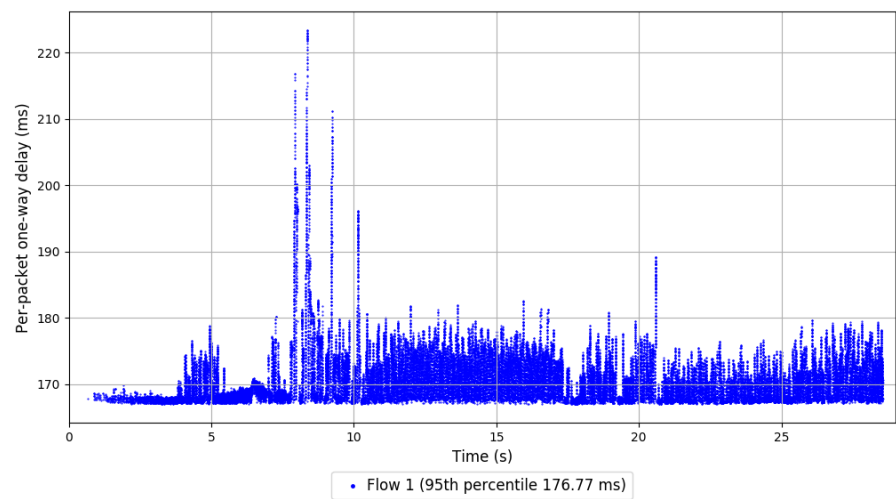
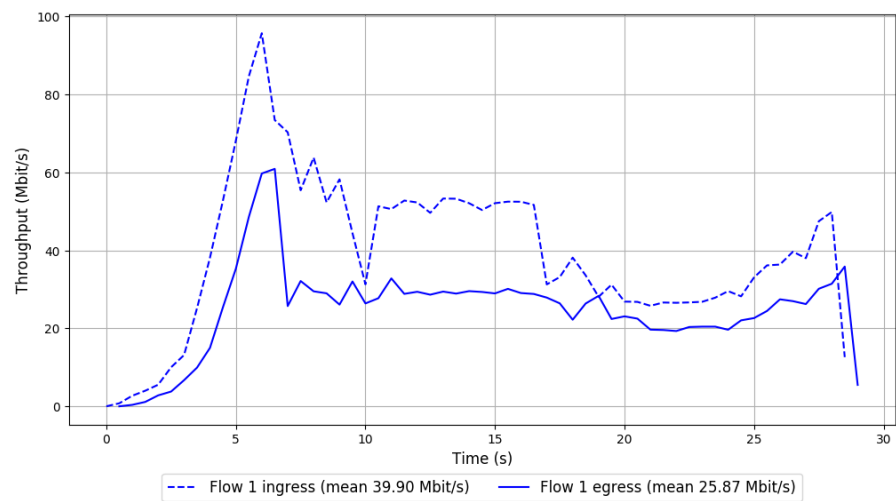
-- Flow 1:

Average throughput: 25.87 Mbit/s

95th percentile per-packet one-way delay: 176.774 ms

Loss rate: 36.83%

Run 5: Report of Indigo-MusesC5 — Data Link

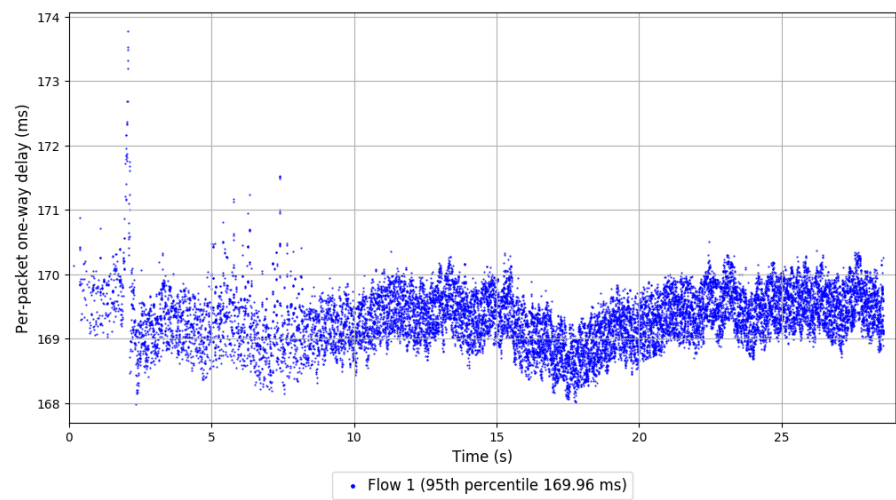
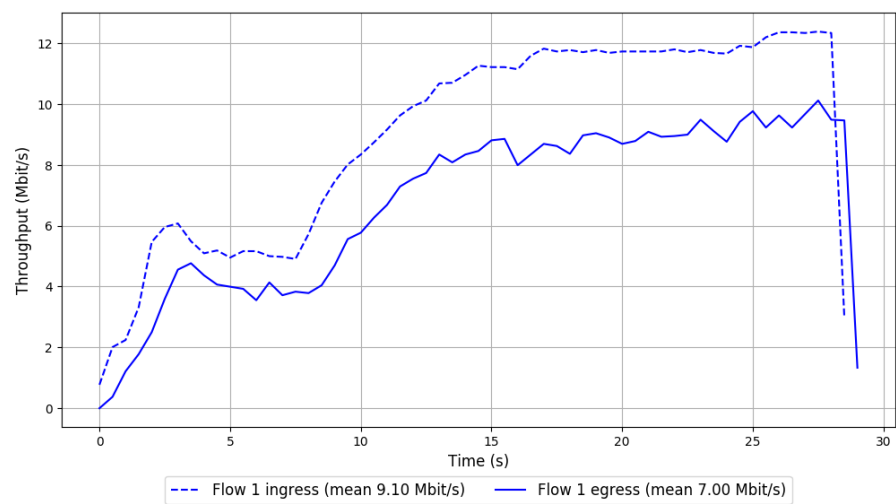


Run 1: Statistics of Indigo-MusesD

Start at: 2019-01-25 11:00:05
End at: 2019-01-25 11:00:35
Local clock offset: -1.088 ms
Remote clock offset: 51.951 ms

Below is generated by plot.py at 2019-01-25 17:25:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.00 Mbit/s
95th percentile per-packet one-way delay: 169.958 ms
Loss rate: 23.69%
-- Flow 1:
Average throughput: 7.00 Mbit/s
95th percentile per-packet one-way delay: 169.958 ms
Loss rate: 23.69%

Run 1: Report of Indigo-MusesD — Data Link

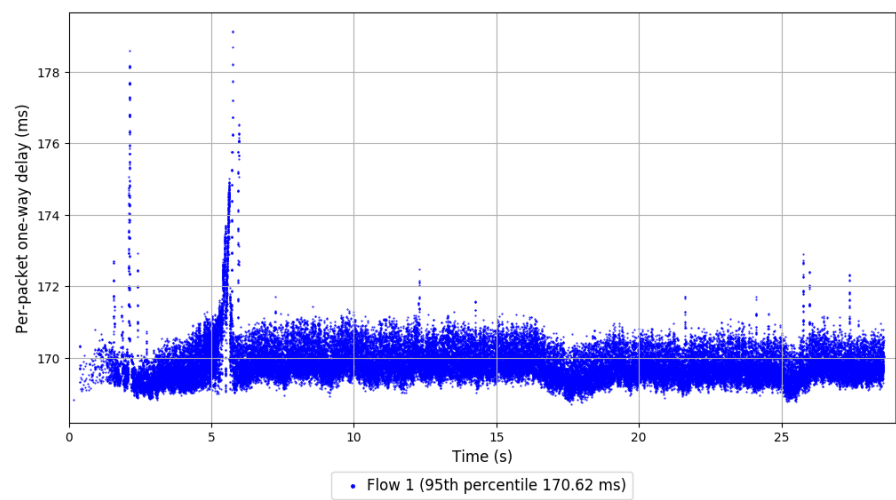
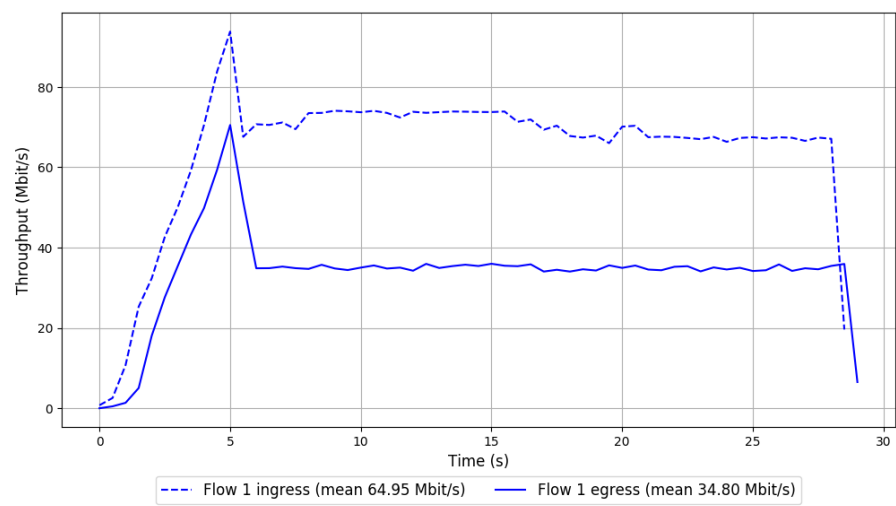


Run 2: Statistics of Indigo-MusesD

Start at: 2019-01-25 12:22:11
End at: 2019-01-25 12:22:41
Local clock offset: 17.482 ms
Remote clock offset: 45.237 ms

Below is generated by plot.py at 2019-01-25 17:25:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 34.80 Mbit/s
95th percentile per-packet one-way delay: 170.616 ms
Loss rate: 46.84%
-- Flow 1:
Average throughput: 34.80 Mbit/s
95th percentile per-packet one-way delay: 170.616 ms
Loss rate: 46.84%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-01-25 13:52:45

End at: 2019-01-25 13:53:15

Local clock offset: 23.43 ms

Remote clock offset: 50.139 ms

Below is generated by plot.py at 2019-01-25 17:25:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.75 Mbit/s

95th percentile per-packet one-way delay: 170.013 ms

Loss rate: 46.19%

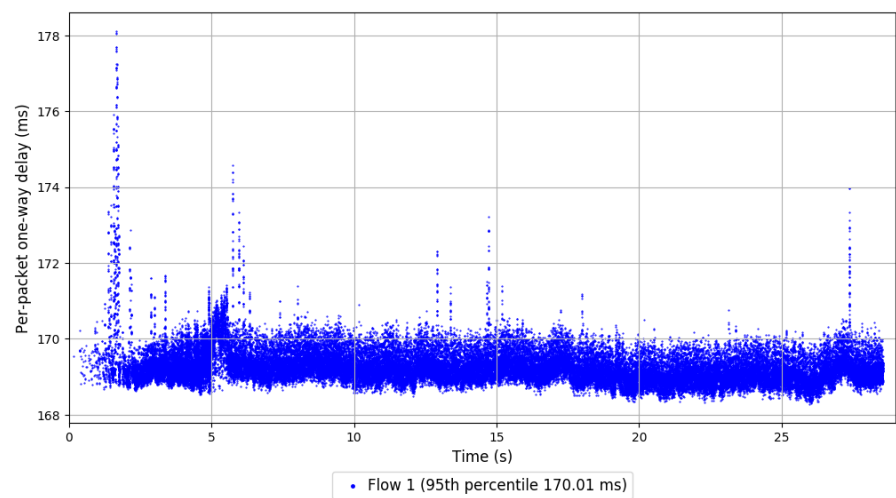
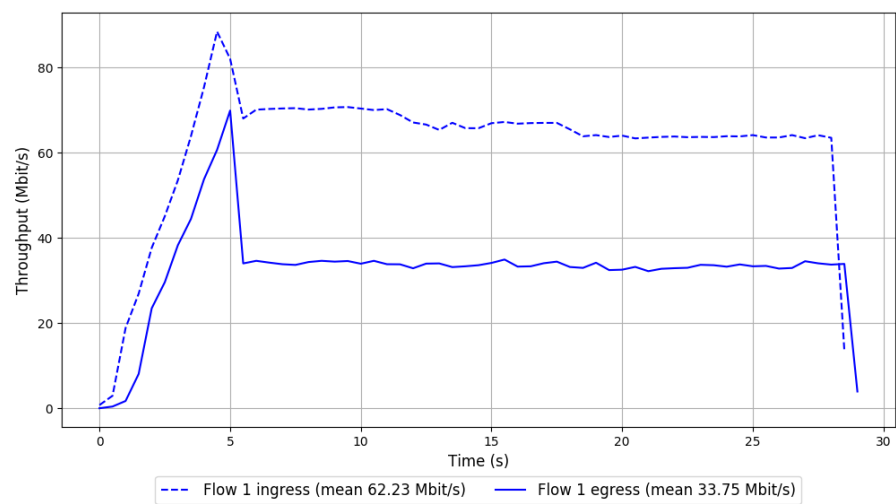
-- Flow 1:

Average throughput: 33.75 Mbit/s

95th percentile per-packet one-way delay: 170.013 ms

Loss rate: 46.19%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-01-25 15:31:16

End at: 2019-01-25 15:31:46

Local clock offset: 6.413 ms

Remote clock offset: 46.91 ms

Below is generated by plot.py at 2019-01-25 17:25:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.30 Mbit/s

95th percentile per-packet one-way delay: 168.931 ms

Loss rate: 26.37%

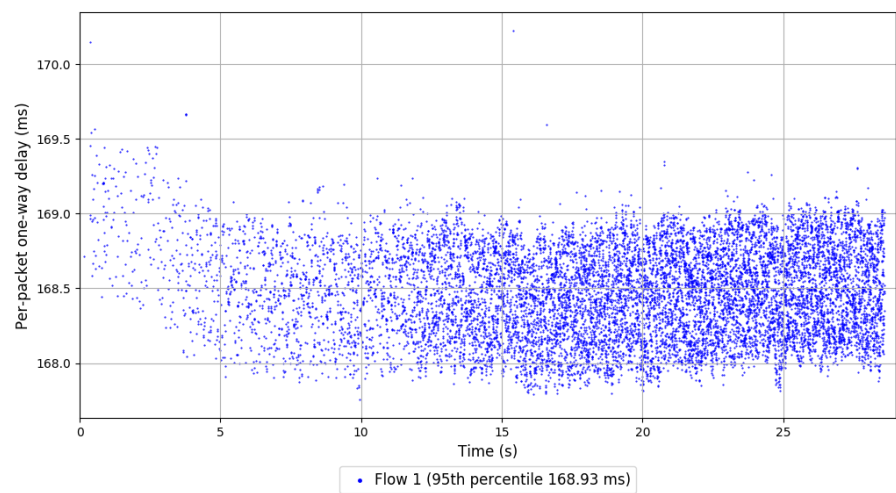
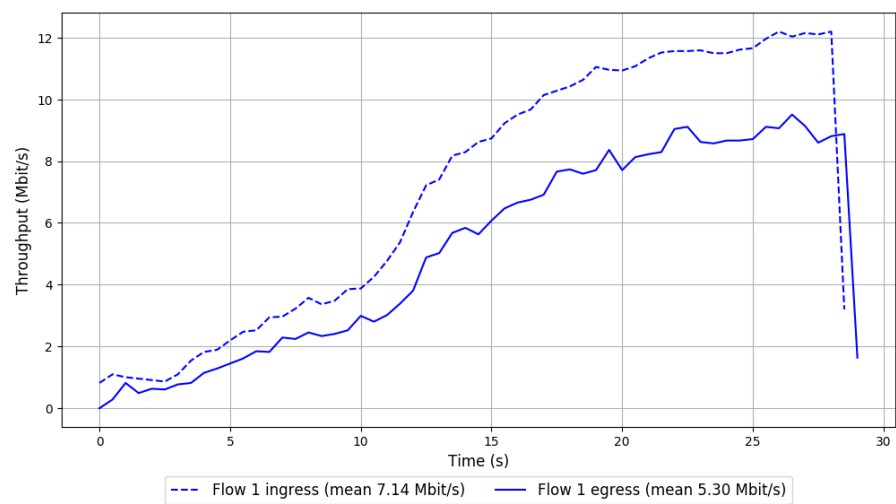
-- Flow 1:

Average throughput: 5.30 Mbit/s

95th percentile per-packet one-way delay: 168.931 ms

Loss rate: 26.37%

Run 4: Report of Indigo-MusesD — Data Link

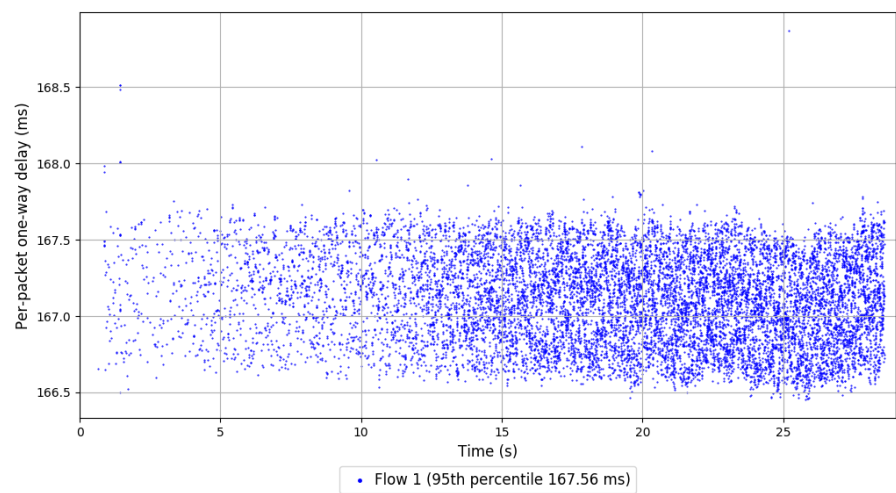
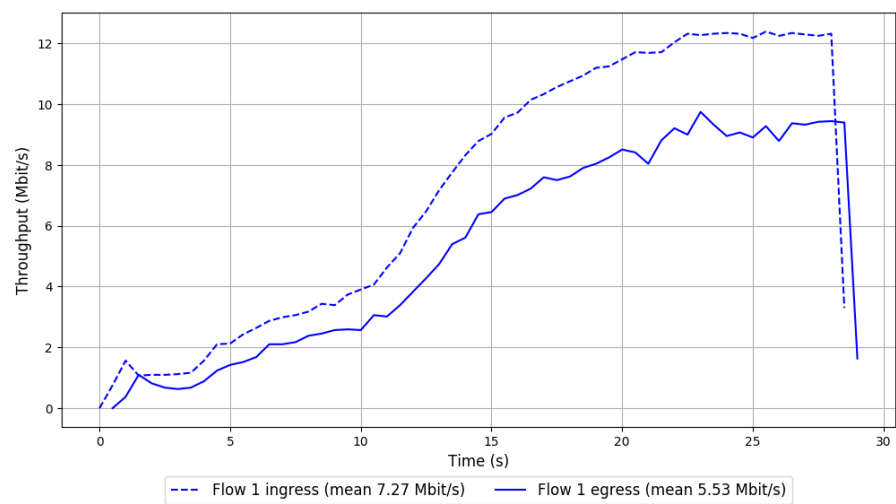


Run 5: Statistics of Indigo-MusesD

Start at: 2019-01-25 16:48:19
End at: 2019-01-25 16:48:49
Local clock offset: 10.151 ms
Remote clock offset: 46.614 ms

Below is generated by plot.py at 2019-01-25 17:25:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.53 Mbit/s
95th percentile per-packet one-way delay: 167.559 ms
Loss rate: 25.86%
-- Flow 1:
Average throughput: 5.53 Mbit/s
95th percentile per-packet one-way delay: 167.559 ms
Loss rate: 25.86%

Run 5: Report of Indigo-MusesD — Data Link

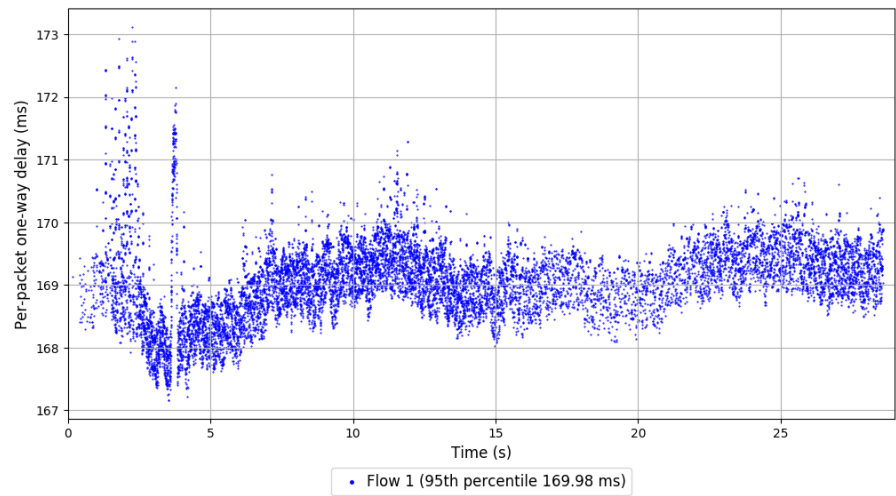
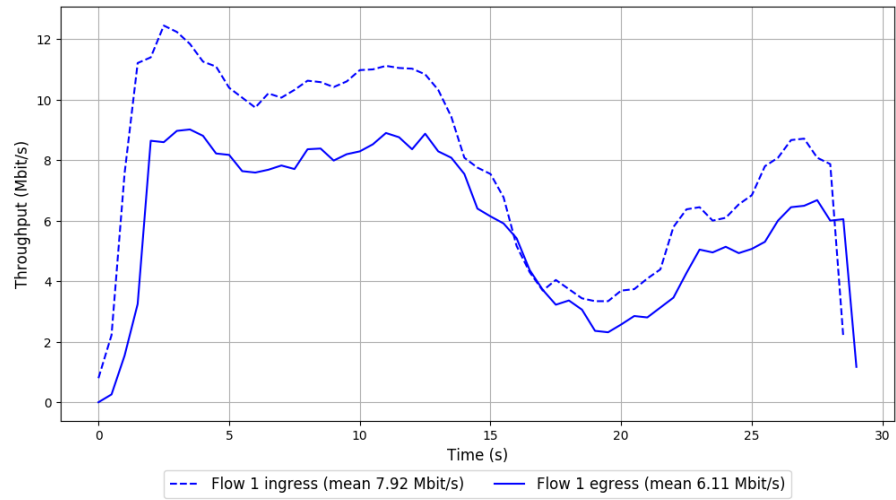


Run 1: Statistics of Indigo-MusesT

Start at: 2019-01-25 11:06:09
End at: 2019-01-25 11:06:39
Local clock offset: -0.408 ms
Remote clock offset: 58.359 ms

Below is generated by plot.py at 2019-01-25 17:25:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.11 Mbit/s
95th percentile per-packet one-way delay: 169.981 ms
Loss rate: 23.45%
-- Flow 1:
Average throughput: 6.11 Mbit/s
95th percentile per-packet one-way delay: 169.981 ms
Loss rate: 23.45%

Run 1: Report of Indigo-MusesT — Data Link

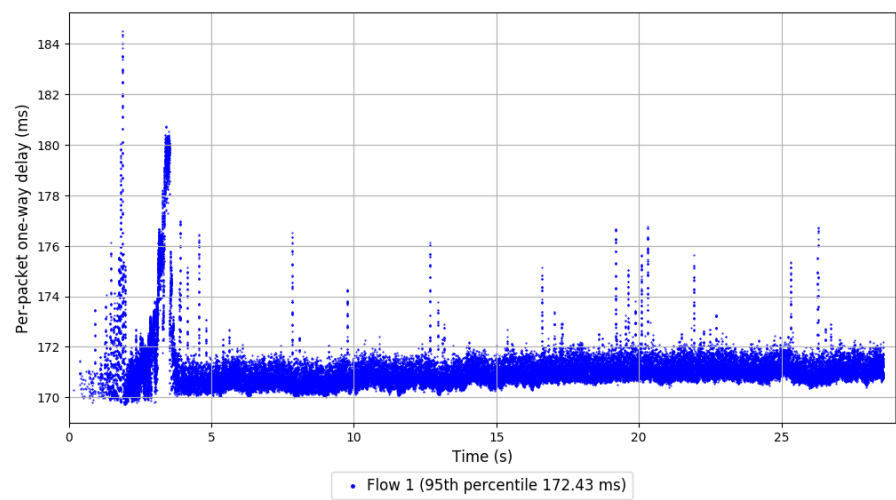
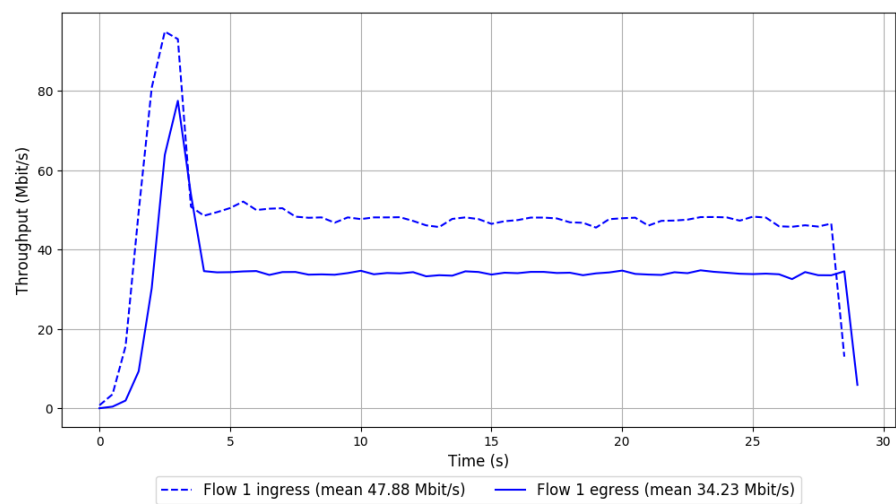


Run 2: Statistics of Indigo-MusesT

Start at: 2019-01-25 12:31:28
End at: 2019-01-25 12:31:58
Local clock offset: 15.78 ms
Remote clock offset: 46.526 ms

Below is generated by plot.py at 2019-01-25 17:26:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 34.23 Mbit/s
95th percentile per-packet one-way delay: 172.427 ms
Loss rate: 29.06%
-- Flow 1:
Average throughput: 34.23 Mbit/s
95th percentile per-packet one-way delay: 172.427 ms
Loss rate: 29.06%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-01-25 14:02:32

End at: 2019-01-25 14:03:02

Local clock offset: 21.61 ms

Remote clock offset: 50.563 ms

Below is generated by plot.py at 2019-01-25 17:26:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.46 Mbit/s

95th percentile per-packet one-way delay: 172.336 ms

Loss rate: 28.12%

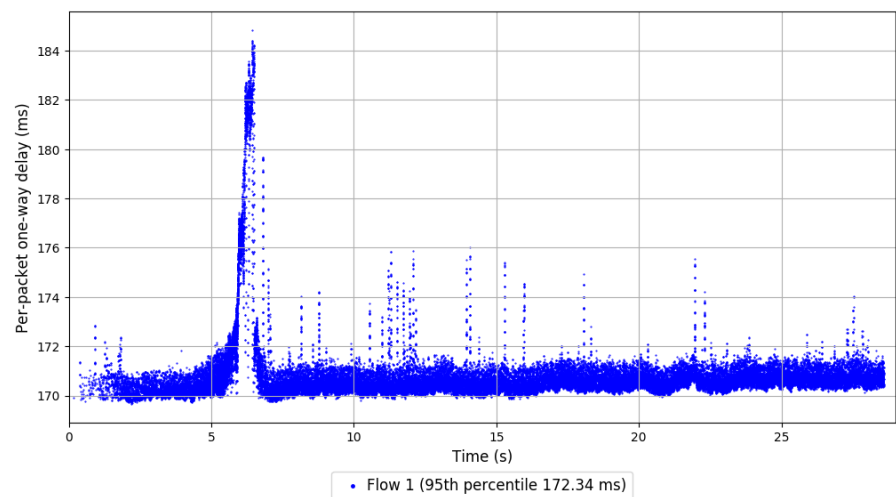
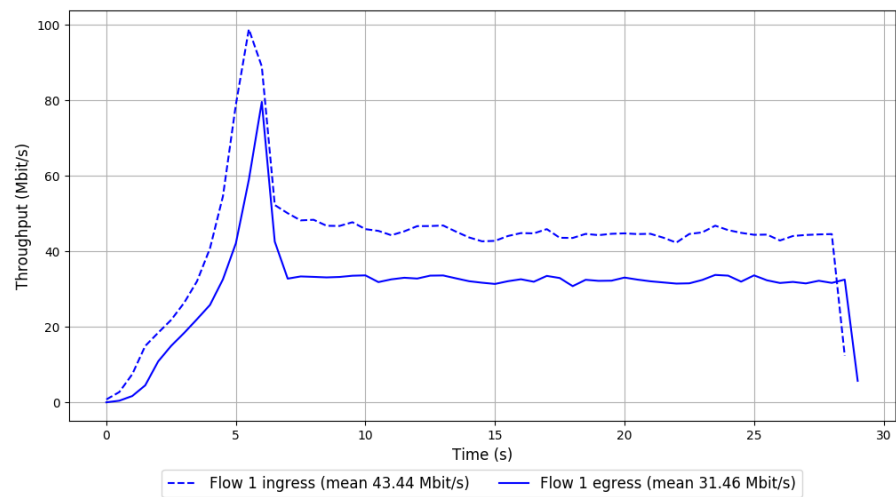
-- Flow 1:

Average throughput: 31.46 Mbit/s

95th percentile per-packet one-way delay: 172.336 ms

Loss rate: 28.12%

Run 3: Report of Indigo-MusesT — Data Link

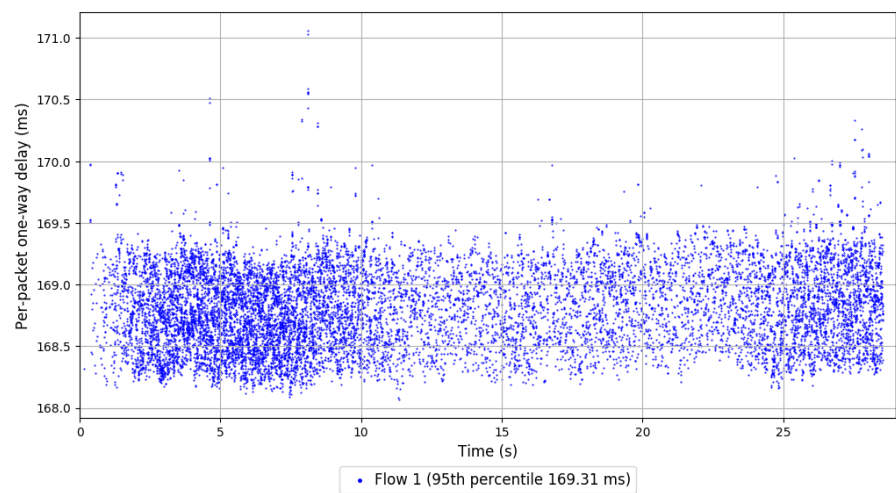
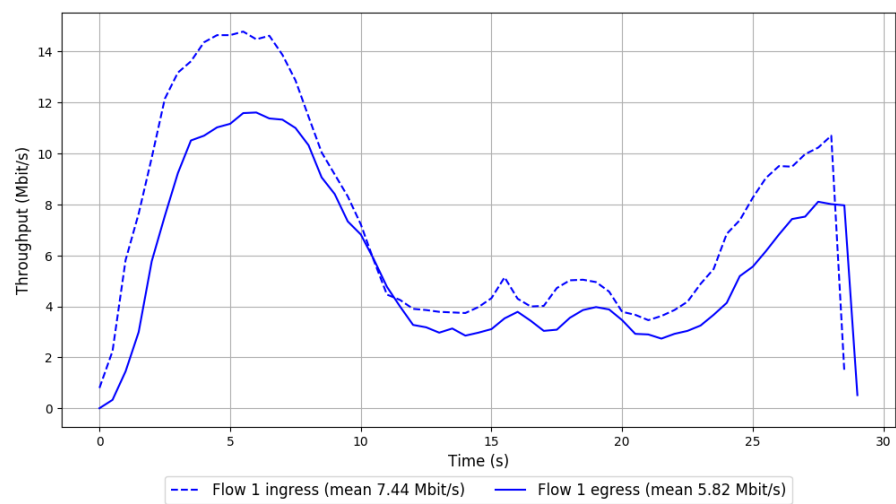


Run 4: Statistics of Indigo-MusesT

Start at: 2019-01-25 15:37:26
End at: 2019-01-25 15:37:56
Local clock offset: 4.594 ms
Remote clock offset: 46.471 ms

Below is generated by plot.py at 2019-01-25 17:26:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.82 Mbit/s
95th percentile per-packet one-way delay: 169.308 ms
Loss rate: 22.37%
-- Flow 1:
Average throughput: 5.82 Mbit/s
95th percentile per-packet one-way delay: 169.308 ms
Loss rate: 22.37%

Run 4: Report of Indigo-MusesT — Data Link

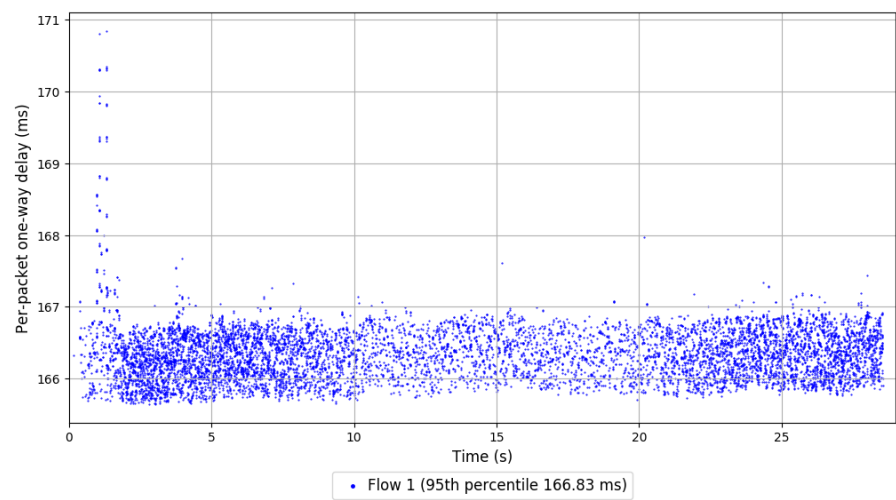
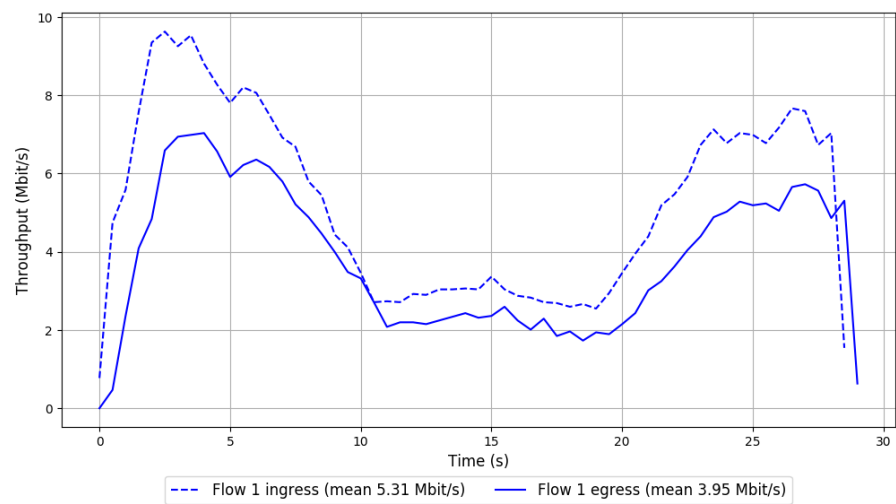


Run 5: Statistics of Indigo-MusesT

Start at: 2019-01-25 16:54:47
End at: 2019-01-25 16:55:17
Local clock offset: 11.059 ms
Remote clock offset: 47.399 ms

Below is generated by plot.py at 2019-01-25 17:26:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 166.826 ms
Loss rate: 26.12%
-- Flow 1:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 166.826 ms
Loss rate: 26.12%

Run 5: Report of Indigo-MusesT — Data Link

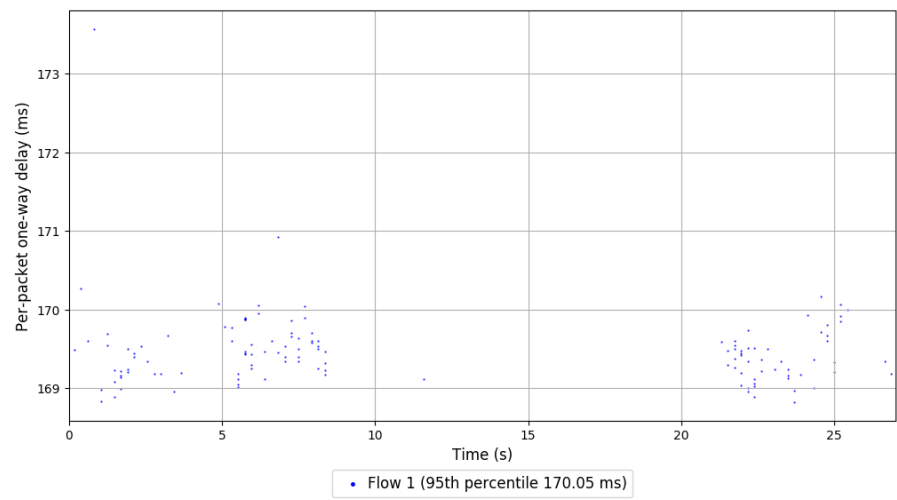
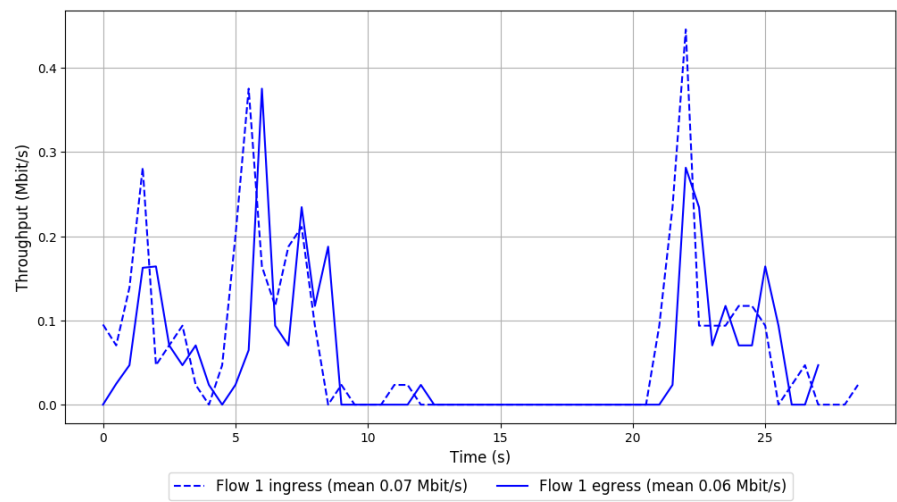


```
Run 1: Statistics of LEDBAT

Start at: 2019-01-25 11:03:44
End at: 2019-01-25 11:04:14
Local clock offset: -0.498 ms
Remote clock offset: 56.056 ms

# Below is generated by plot.py at 2019-01-25 17:26:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 170.052 ms
Loss rate: 21.03%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 170.052 ms
Loss rate: 21.03%
```

Run 1: Report of LEDBAT — Data Link

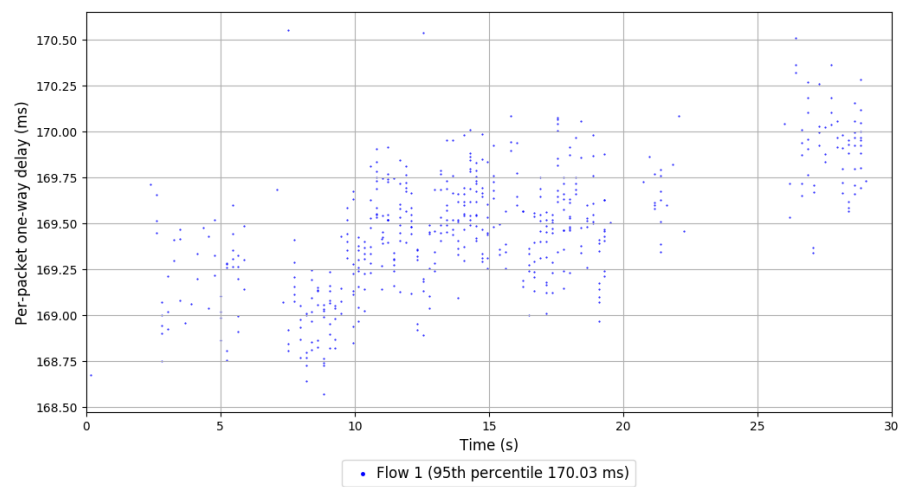
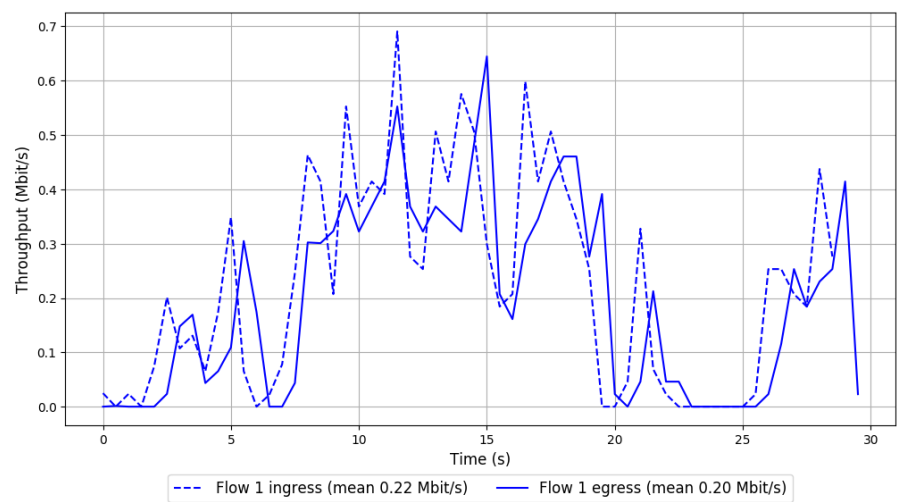


Run 2: Statistics of LEDBAT

Start at: 2019-01-25 12:29:03
End at: 2019-01-25 12:29:33
Local clock offset: 19.097 ms
Remote clock offset: 46.837 ms

Below is generated by plot.py at 2019-01-25 17:26:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 170.029 ms
Loss rate: 8.67%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 170.029 ms
Loss rate: 8.67%

Run 2: Report of LEDBAT — Data Link

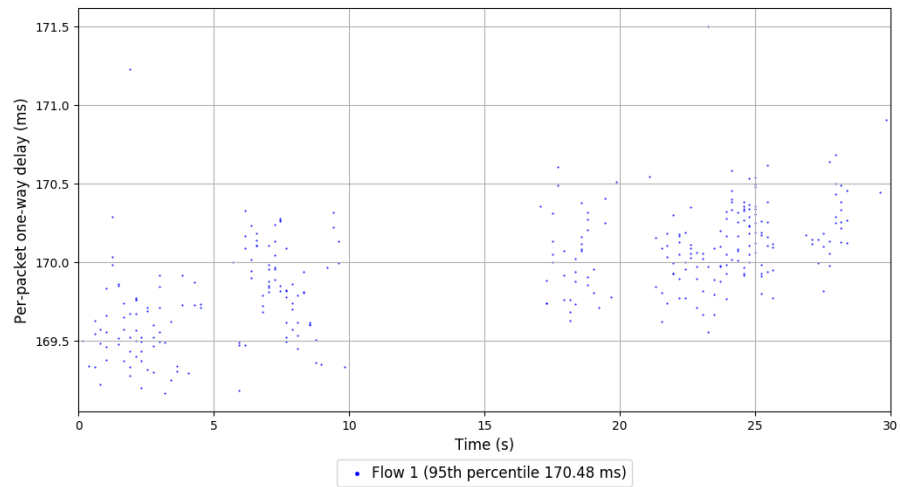
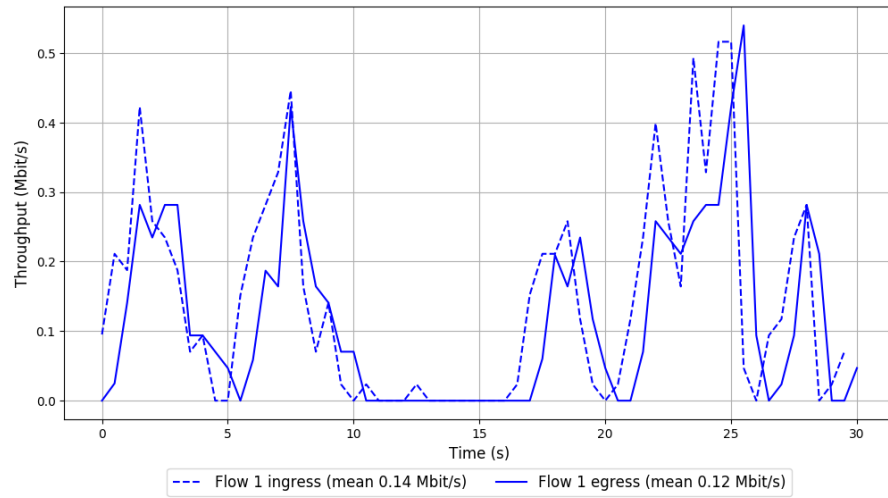


Run 3: Statistics of LEDBAT

Start at: 2019-01-25 14:00:07
End at: 2019-01-25 14:00:37
Local clock offset: 24.699 ms
Remote clock offset: 50.418 ms

Below is generated by plot.py at 2019-01-25 17:26:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 170.476 ms
Loss rate: 15.62%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 170.476 ms
Loss rate: 15.62%

Run 3: Report of LEDBAT — Data Link

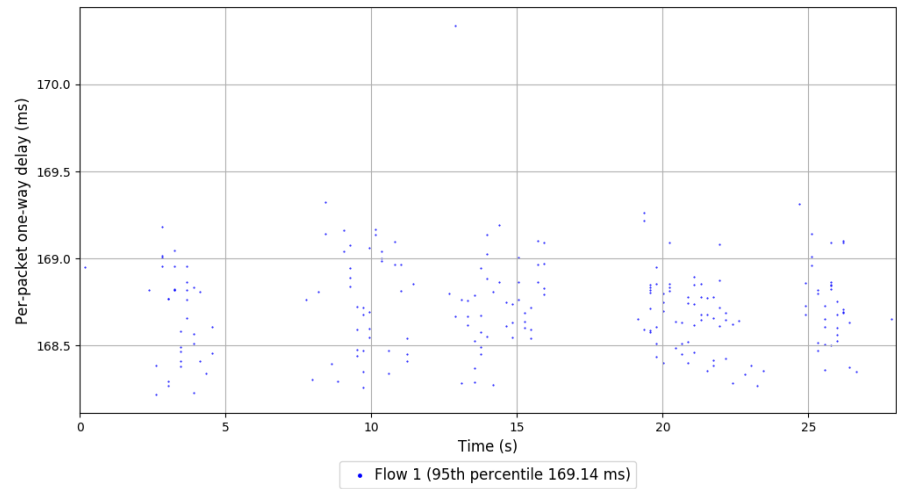
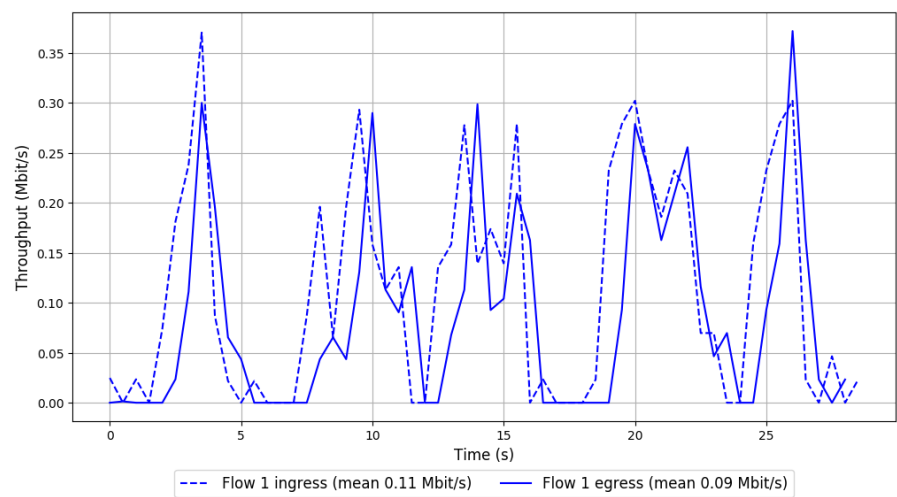


Run 4: Statistics of LEDBAT

Start at: 2019-01-25 15:34:56
End at: 2019-01-25 15:35:26
Local clock offset: 5.198 ms
Remote clock offset: 46.786 ms

Below is generated by plot.py at 2019-01-25 17:26:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 169.138 ms
Loss rate: 23.28%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 169.138 ms
Loss rate: 23.28%

Run 4: Report of LEDBAT — Data Link

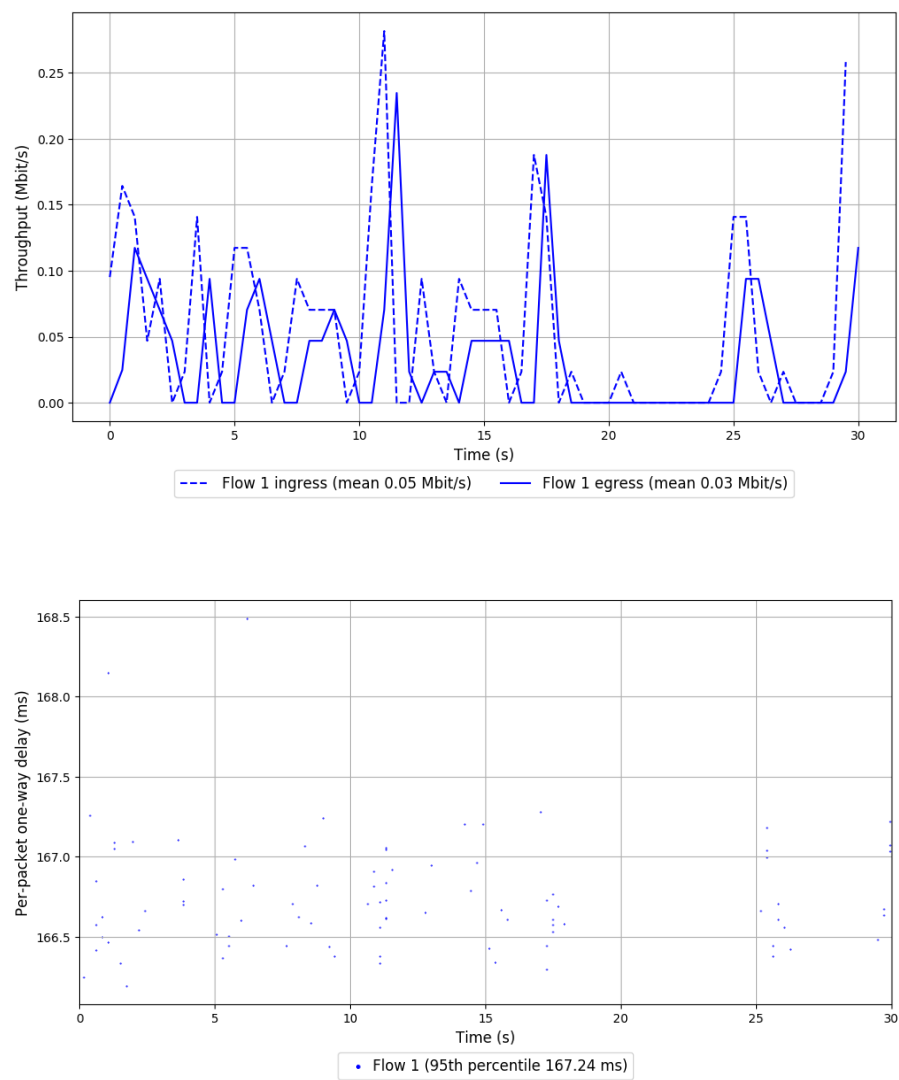


Run 5: Statistics of LEDBAT

Start at: 2019-01-25 16:52:15
End at: 2019-01-25 16:52:45
Local clock offset: 10.683 ms
Remote clock offset: 46.651 ms

Below is generated by plot.py at 2019-01-25 17:26:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 167.243 ms
Loss rate: 37.84%
-- Flow 1:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 167.243 ms
Loss rate: 37.84%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

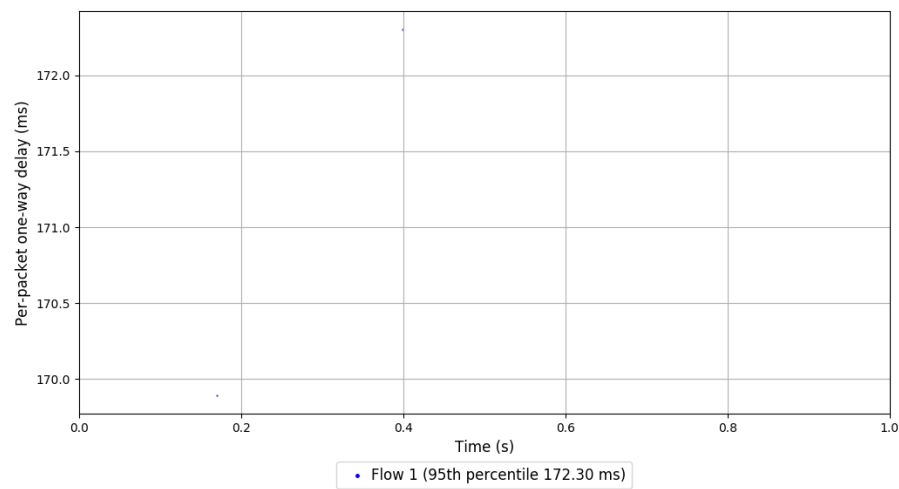
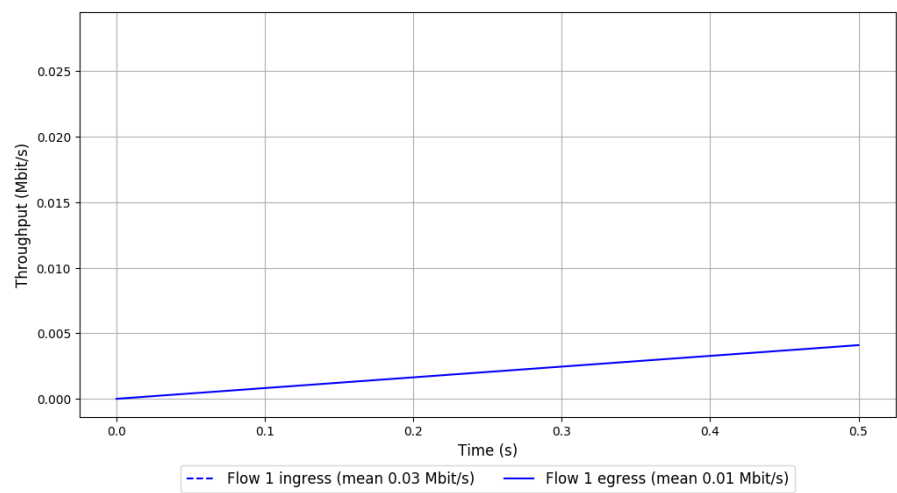
Start at: 2019-01-25 11:04:57

End at: 2019-01-25 11:05:27

Local clock offset: -0.223 ms

Remote clock offset: 57.336 ms

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

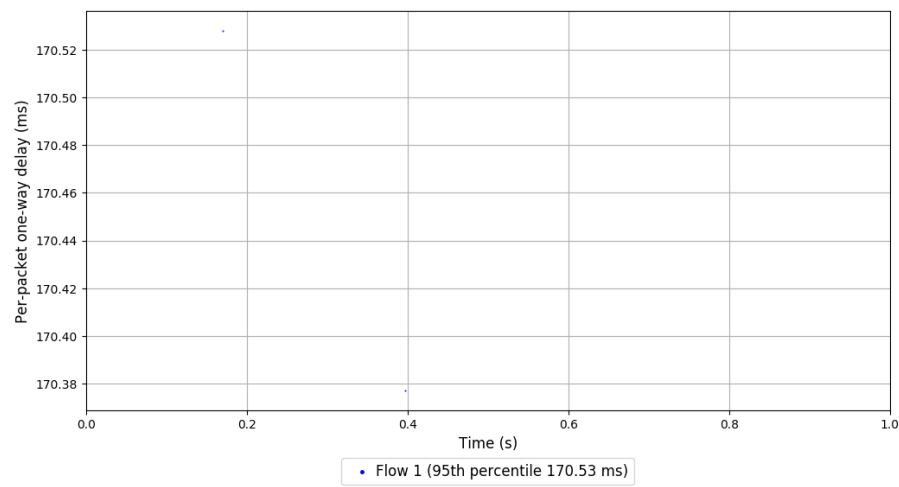
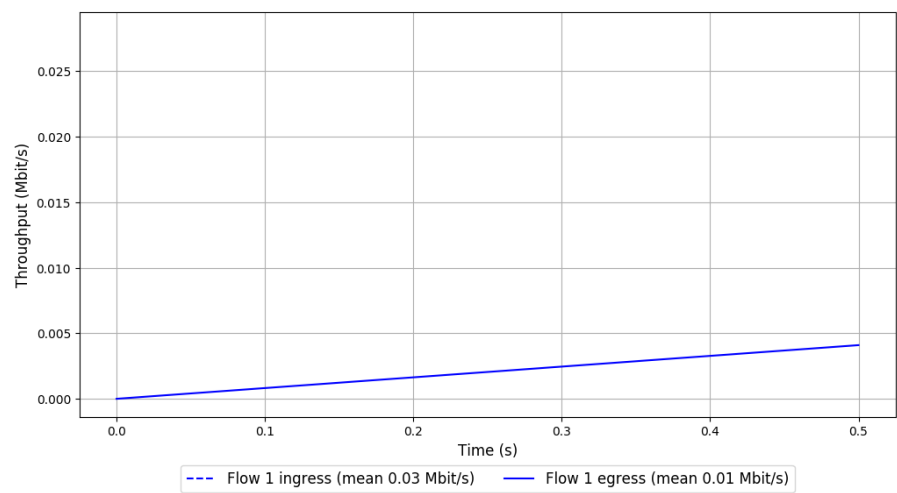
Start at: 2019-01-25 12:30:16

End at: 2019-01-25 12:30:46

Local clock offset: 17.989 ms

Remote clock offset: 46.047 ms

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

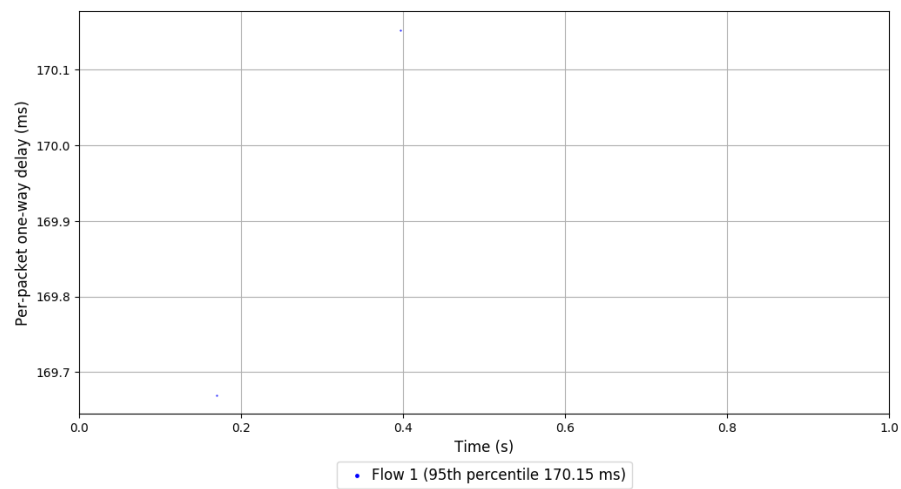
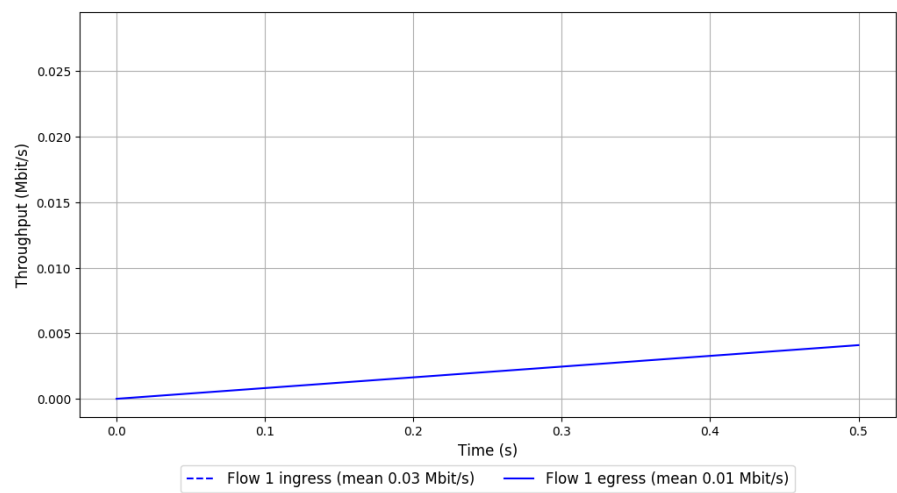
Start at: 2019-01-25 14:01:20

End at: 2019-01-25 14:01:50

Local clock offset: 23.011 ms

Remote clock offset: 50.616 ms

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

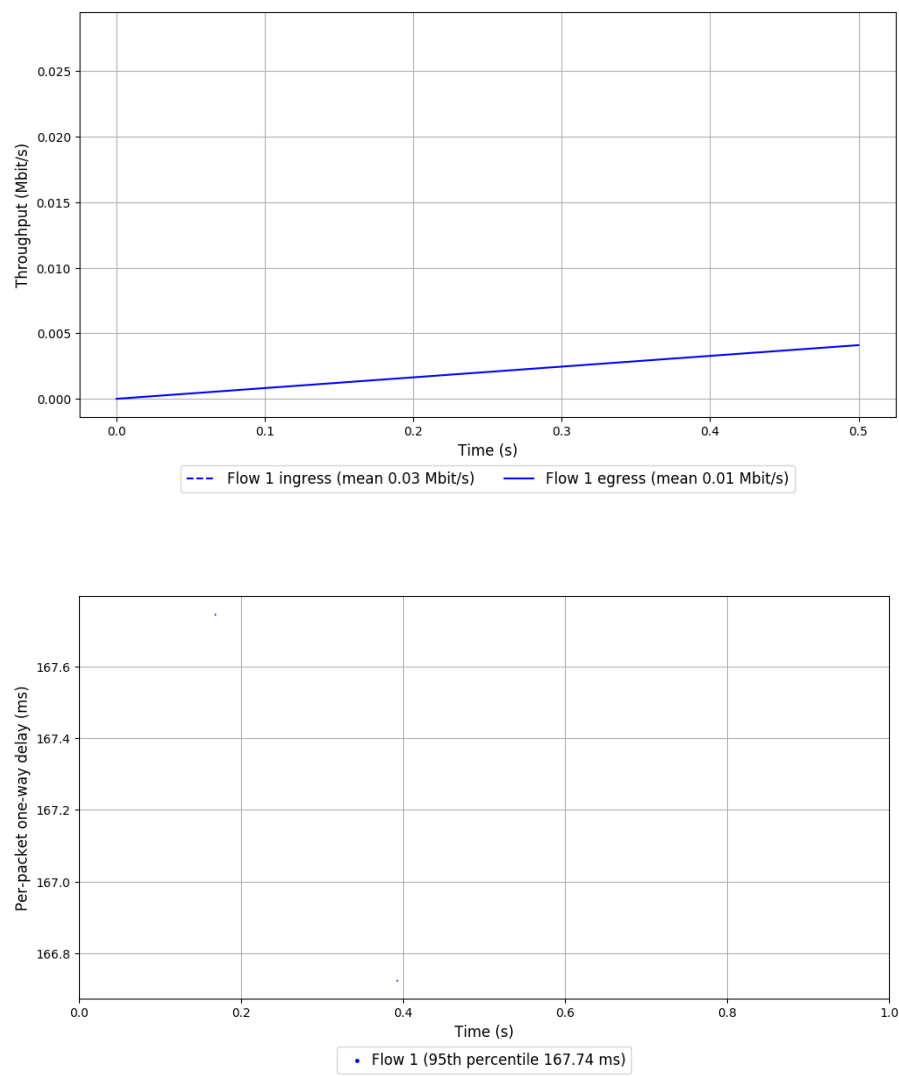
Start at: 2019-01-25 15:36:11

End at: 2019-01-25 15:36:41

Local clock offset: 4.796 ms

Remote clock offset: 47.731 ms

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

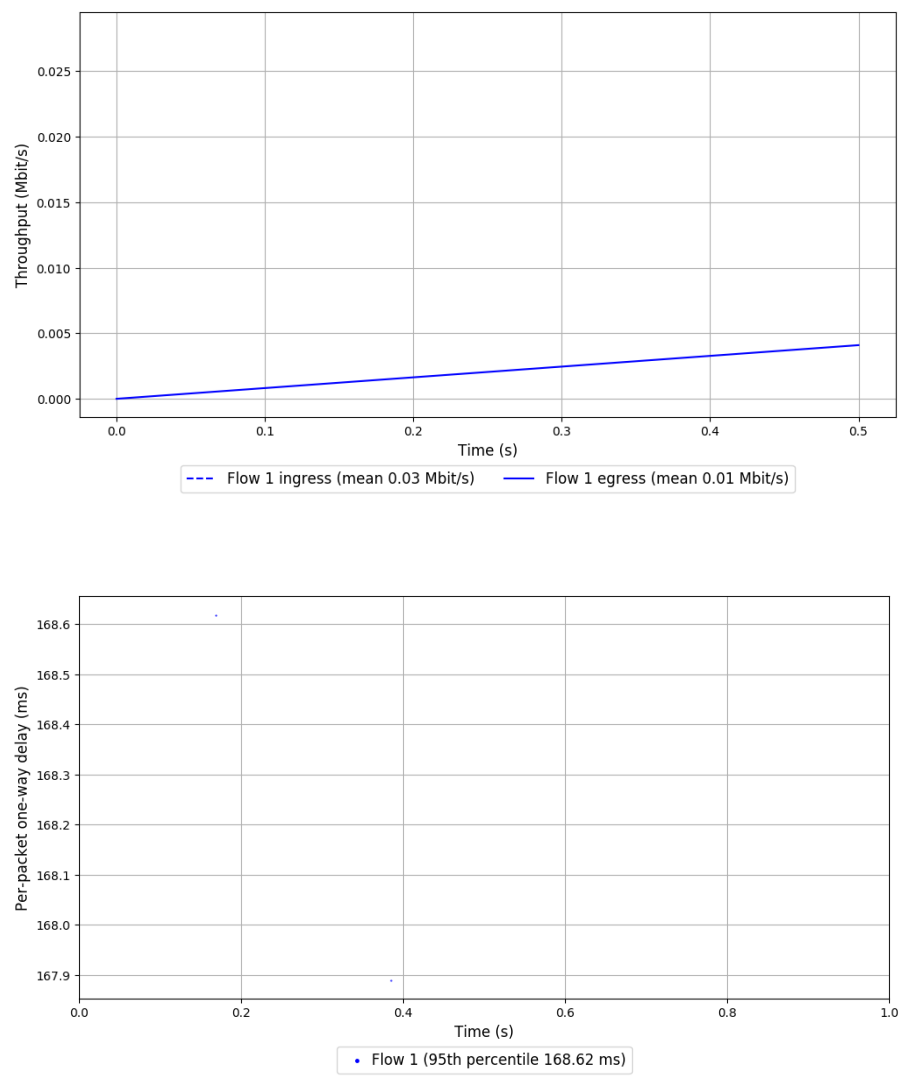
Start at: 2019-01-25 16:53:31

End at: 2019-01-25 16:54:01

Local clock offset: 11.057 ms

Remote clock offset: 46.256 ms

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

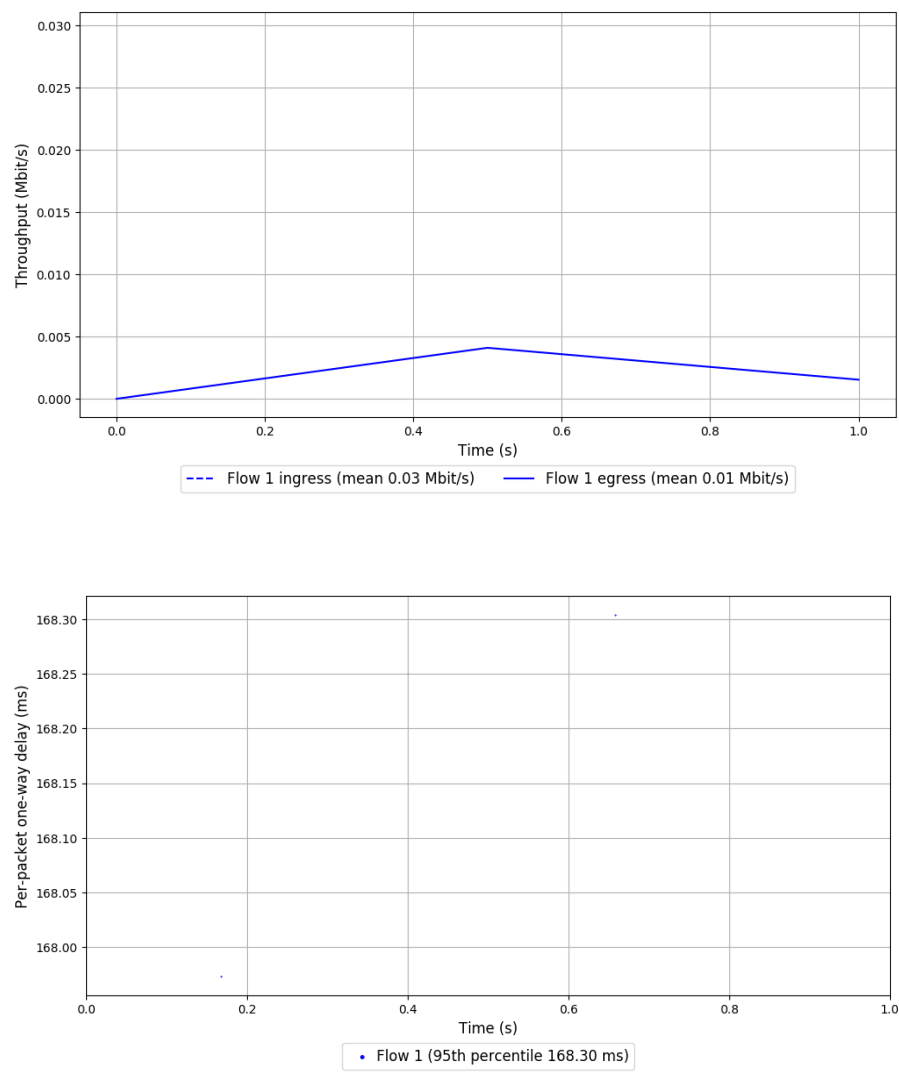
Start at: 2019-01-25 11:18:32

End at: 2019-01-25 11:19:02

Local clock offset: -0.56 ms

Remote clock offset: 55.54 ms

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

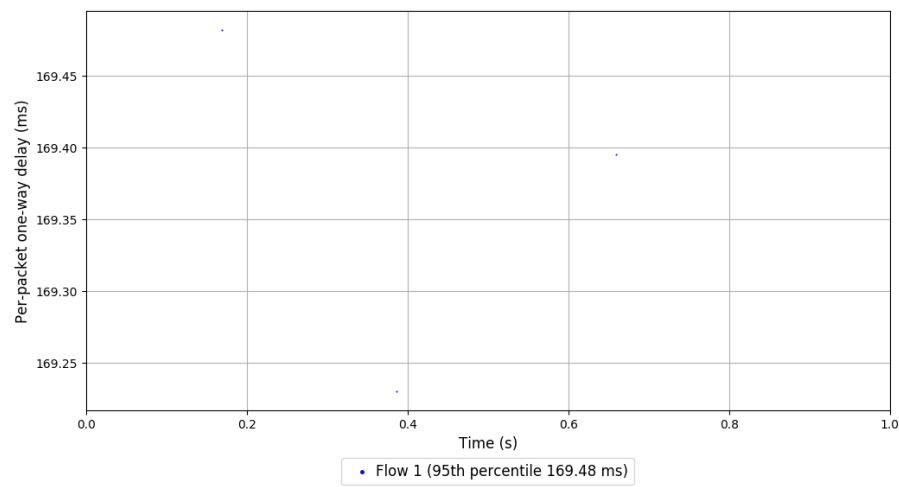
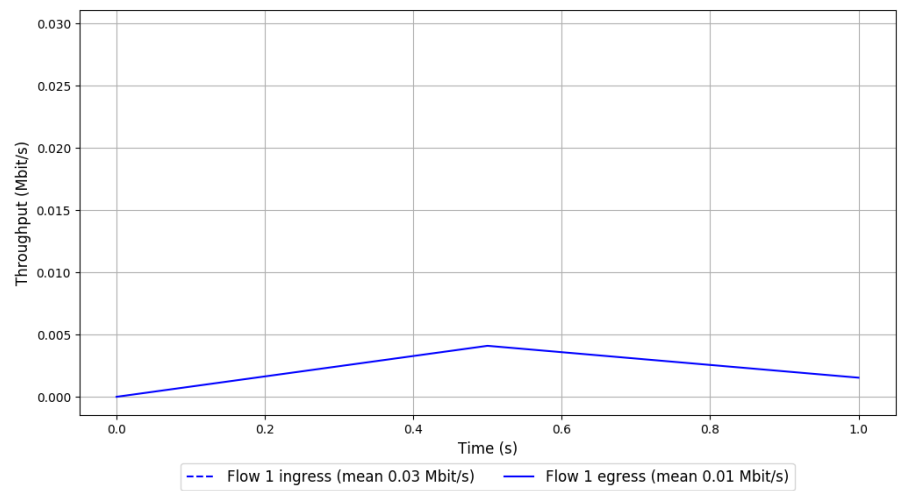
Start at: 2019-01-25 12:56:47

End at: 2019-01-25 12:57:17

Local clock offset: 0.177 ms

Remote clock offset: 48.13 ms

Run 2: Report of PCC-Expr — Data Link

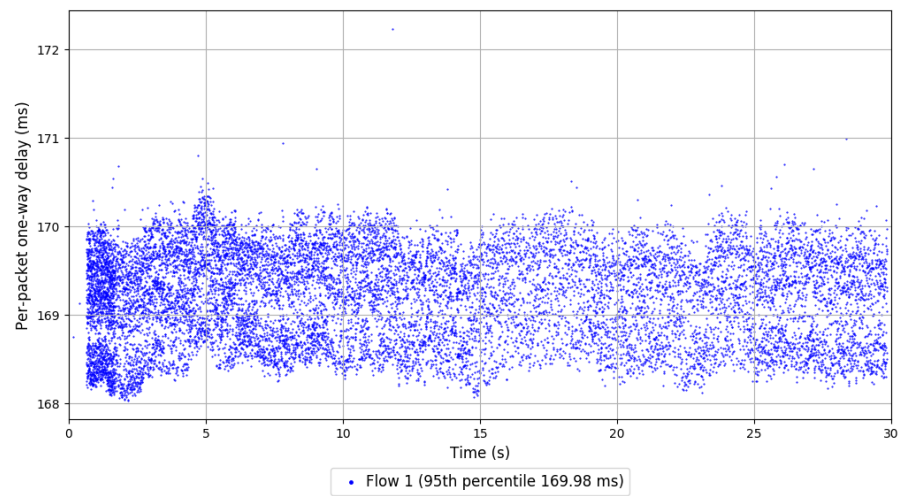
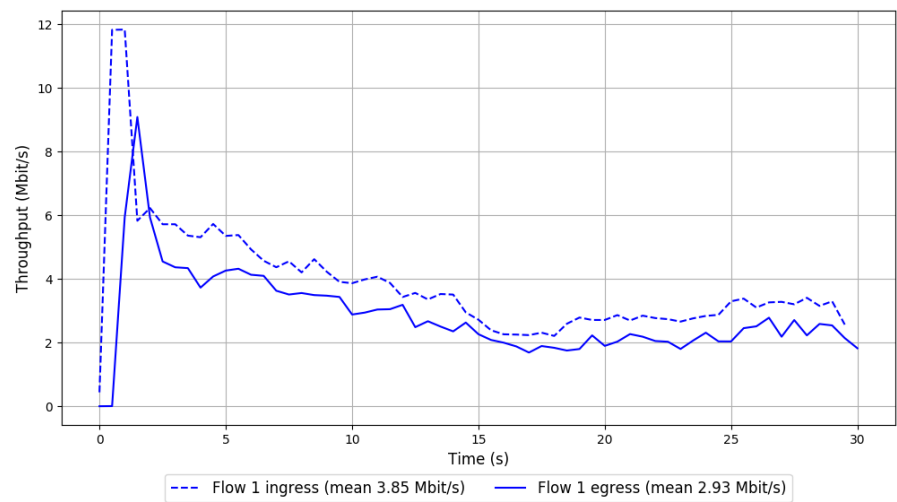


Run 3: Statistics of PCC-Expr

Start at: 2019-01-25 14:21:04
End at: 2019-01-25 14:21:34
Local clock offset: 13.067 ms
Remote clock offset: 49.265 ms

Below is generated by plot.py at 2019-01-25 17:26:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.93 Mbit/s
95th percentile per-packet one-way delay: 169.976 ms
Loss rate: 24.59%
-- Flow 1:
Average throughput: 2.93 Mbit/s
95th percentile per-packet one-way delay: 169.976 ms
Loss rate: 24.59%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

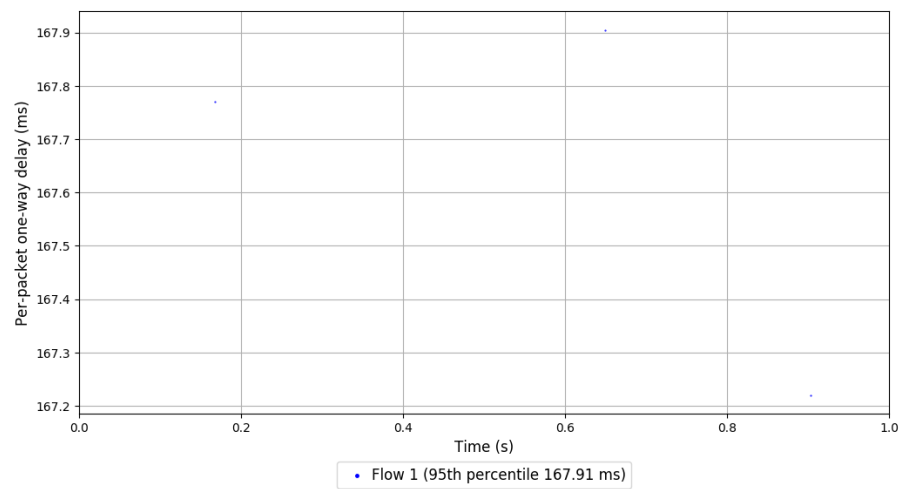
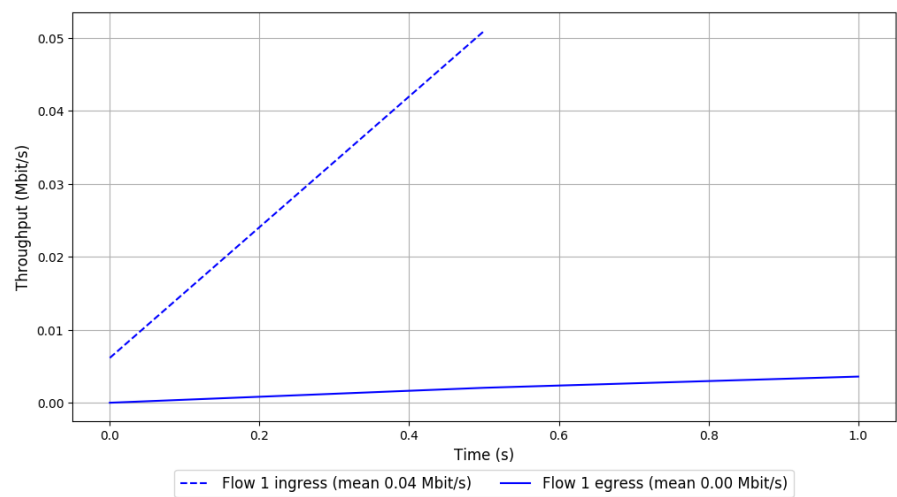
Start at: 2019-01-25 15:53:18

End at: 2019-01-25 15:53:48

Local clock offset: 1.356 ms

Remote clock offset: 46.095 ms

Run 4: Report of PCC-Expr — Data Link

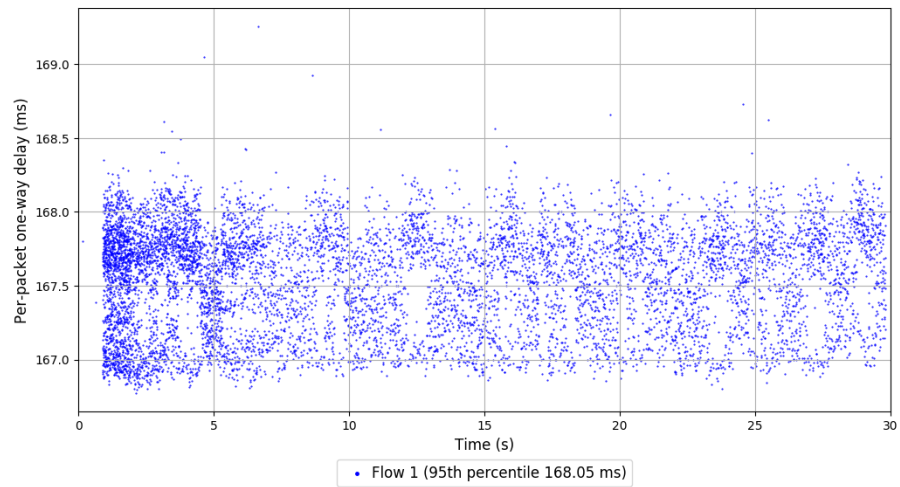
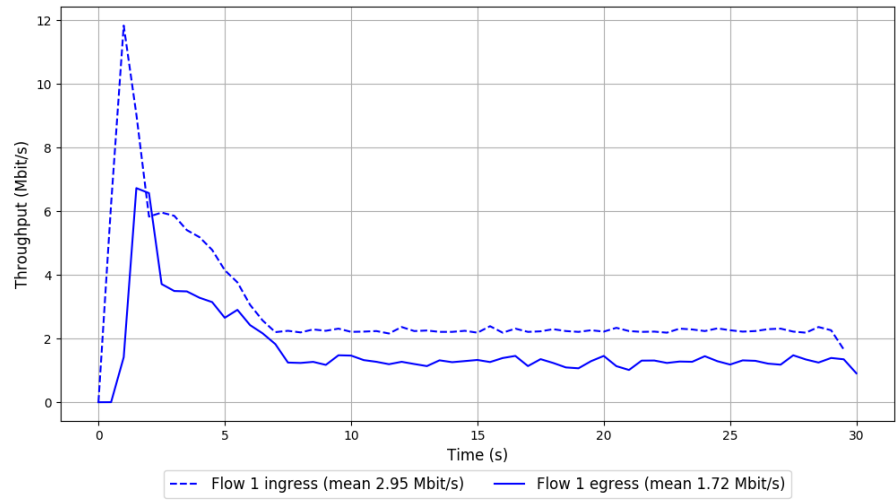


Run 5: Statistics of PCC-Expr

Start at: 2019-01-25 17:01:00
End at: 2019-01-25 17:01:30
Local clock offset: 11.631 ms
Remote clock offset: 47.674 ms

Below is generated by plot.py at 2019-01-25 17:26:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.72 Mbit/s
95th percentile per-packet one-way delay: 168.049 ms
Loss rate: 42.14%
-- Flow 1:
Average throughput: 1.72 Mbit/s
95th percentile per-packet one-way delay: 168.049 ms
Loss rate: 42.14%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-01-25 11:02:30

End at: 2019-01-25 11:03:00

Local clock offset: -0.784 ms

Remote clock offset: 55.58 ms

Below is generated by plot.py at 2019-01-25 17:26:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 169.366 ms

Loss rate: 19.90%

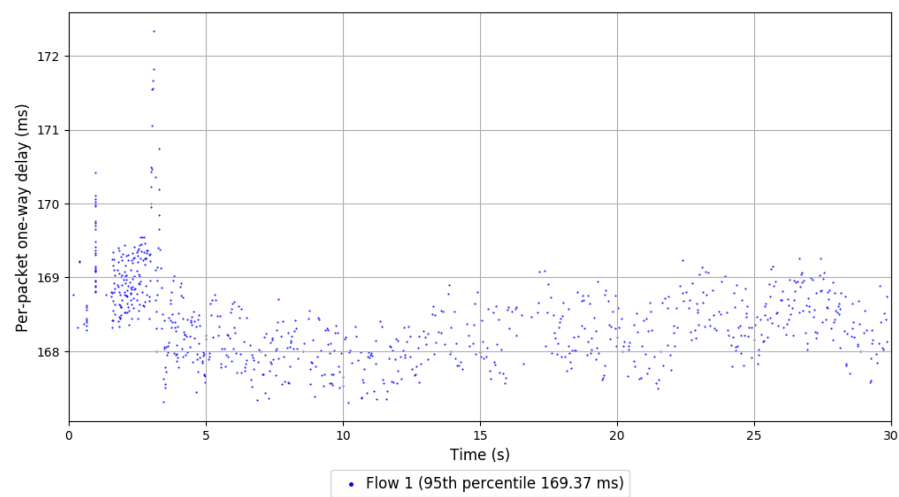
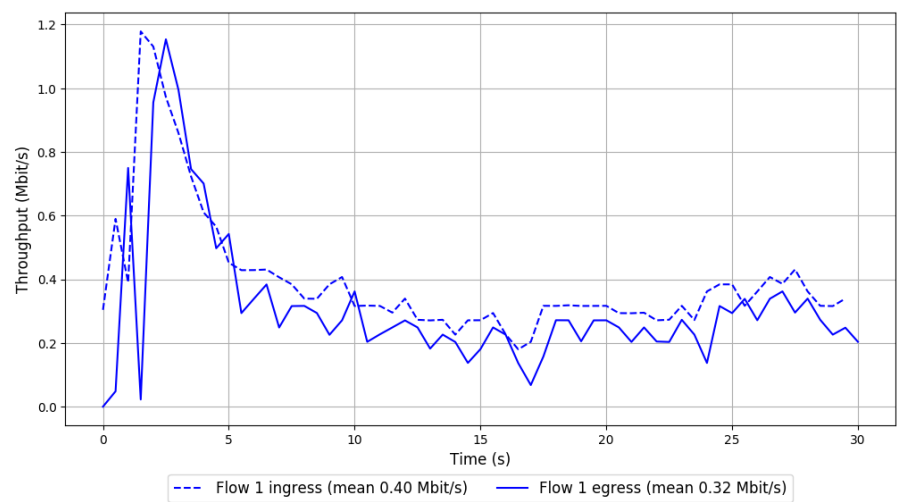
-- Flow 1:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 169.366 ms

Loss rate: 19.90%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-01-25 12:27:48

End at: 2019-01-25 12:28:19

Local clock offset: 18.467 ms

Remote clock offset: 45.922 ms

Below is generated by plot.py at 2019-01-25 17:26:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 170.904 ms

Loss rate: 10.76%

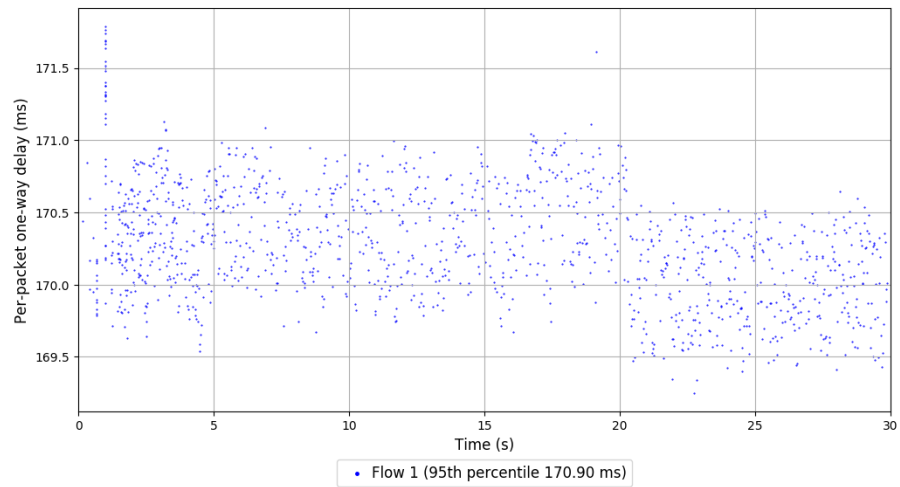
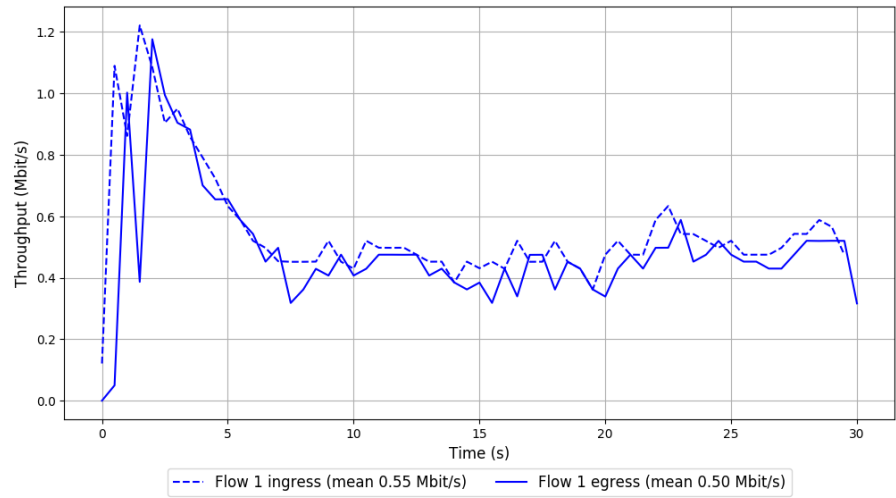
-- Flow 1:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 170.904 ms

Loss rate: 10.76%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-01-25 13:58:53

End at: 2019-01-25 13:59:23

Local clock offset: 25.478 ms

Remote clock offset: 51.49 ms

Below is generated by plot.py at 2019-01-25 17:26:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 168.979 ms

Loss rate: 10.87%

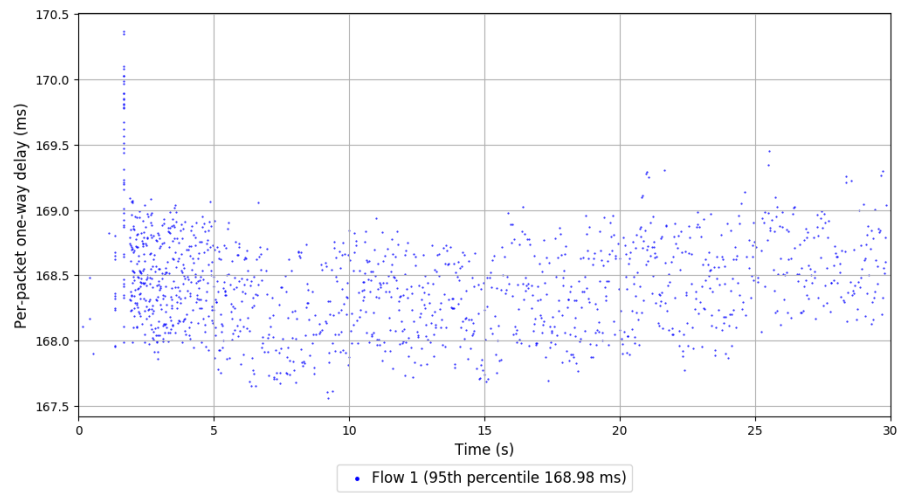
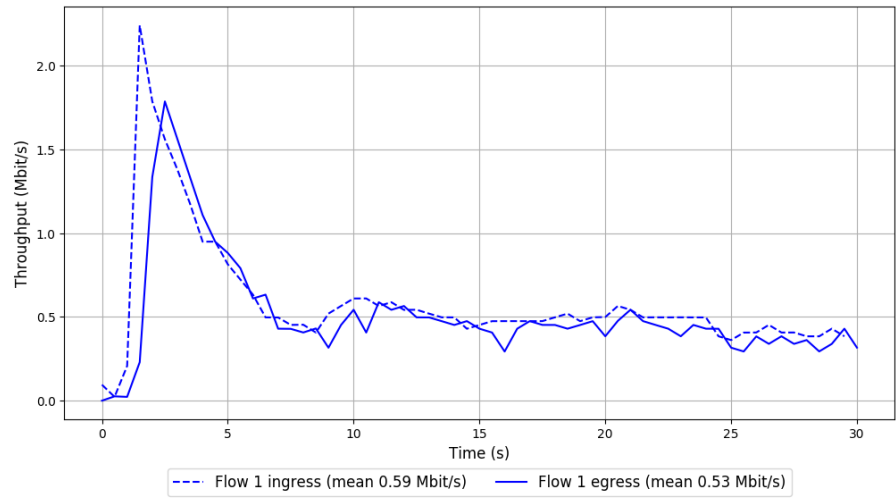
-- Flow 1:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 168.979 ms

Loss rate: 10.87%

Run 3: Report of QUIC Cubic — Data Link

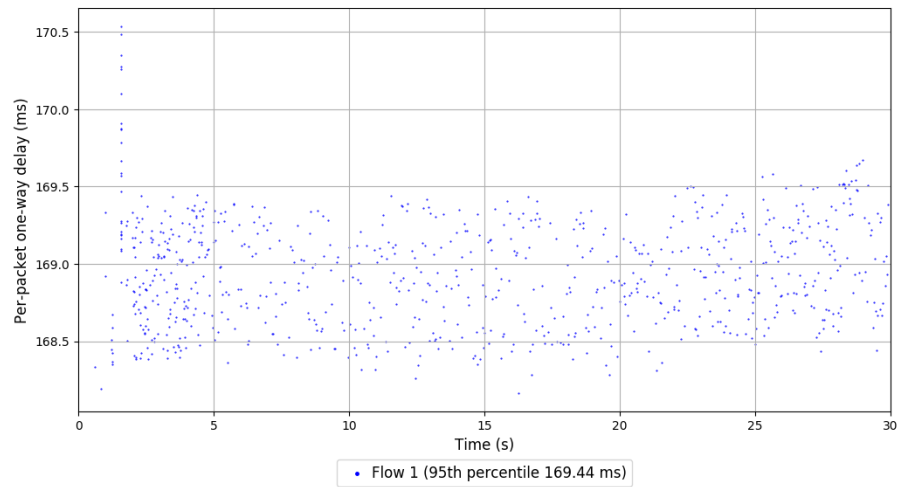
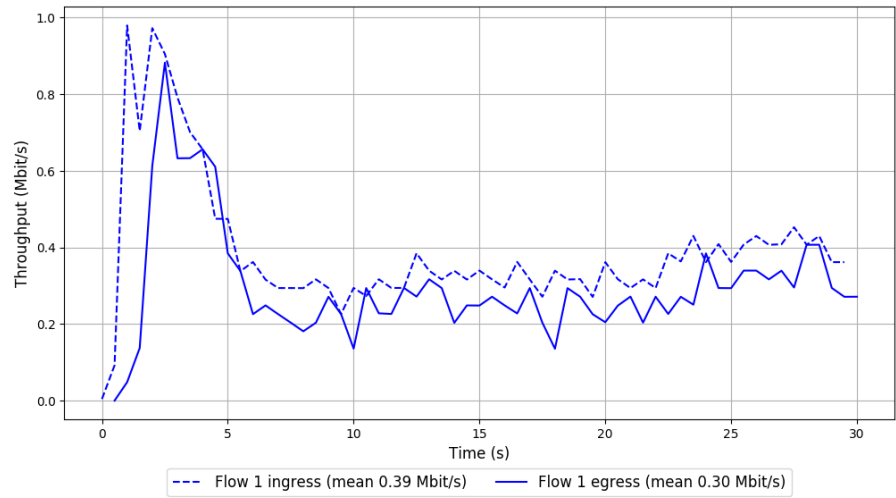


Run 4: Statistics of QUIC Cubic

Start at: 2019-01-25 15:33:35
End at: 2019-01-25 15:34:05
Local clock offset: 5.678 ms
Remote clock offset: 46.704 ms

Below is generated by plot.py at 2019-01-25 17:26:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 169.444 ms
Loss rate: 23.57%
-- Flow 1:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 169.444 ms
Loss rate: 23.57%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-01-25 16:50:53

End at: 2019-01-25 16:51:23

Local clock offset: 10.806 ms

Remote clock offset: 46.796 ms

Below is generated by plot.py at 2019-01-25 17:26:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 167.893 ms

Loss rate: 24.56%

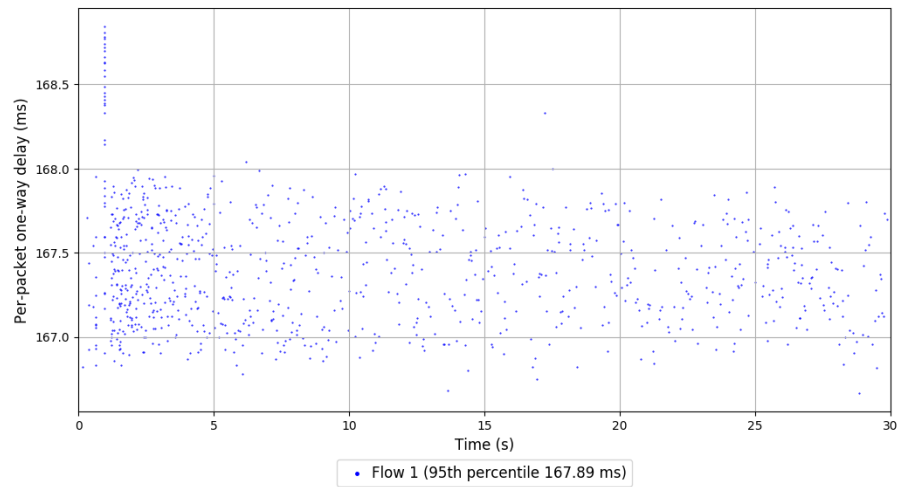
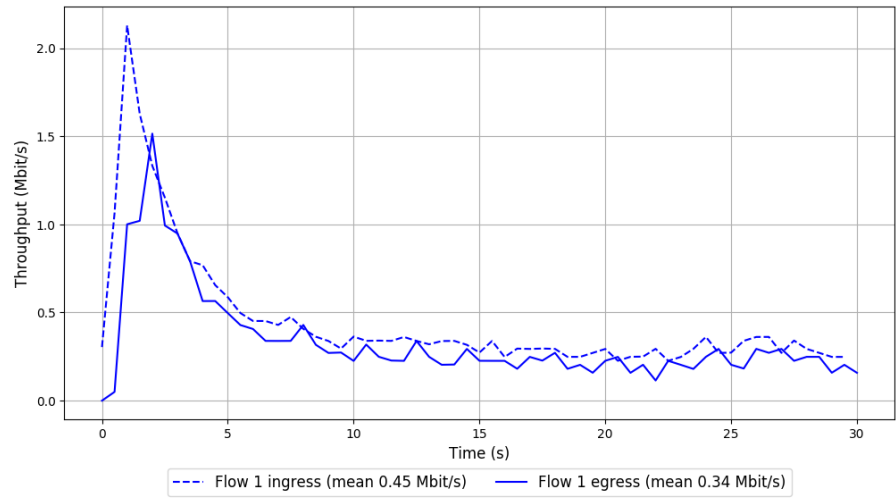
-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 167.893 ms

Loss rate: 24.56%

Run 5: Report of QUIC Cubic — Data Link

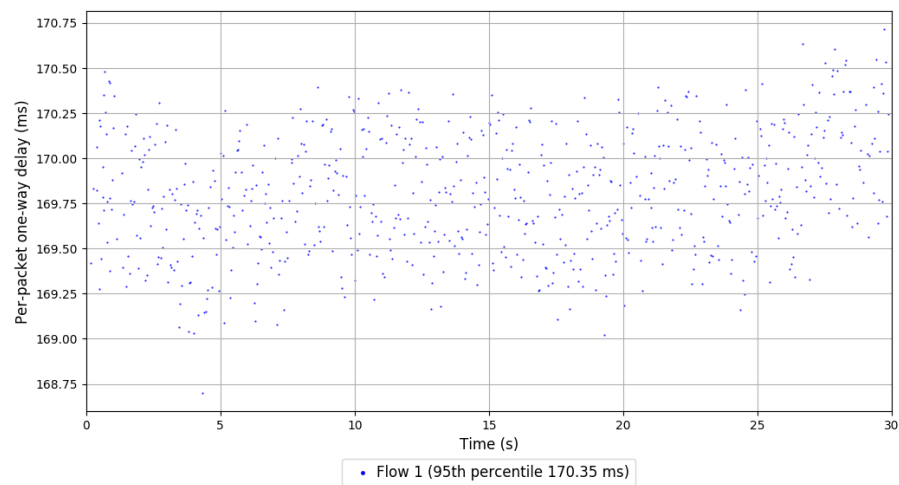
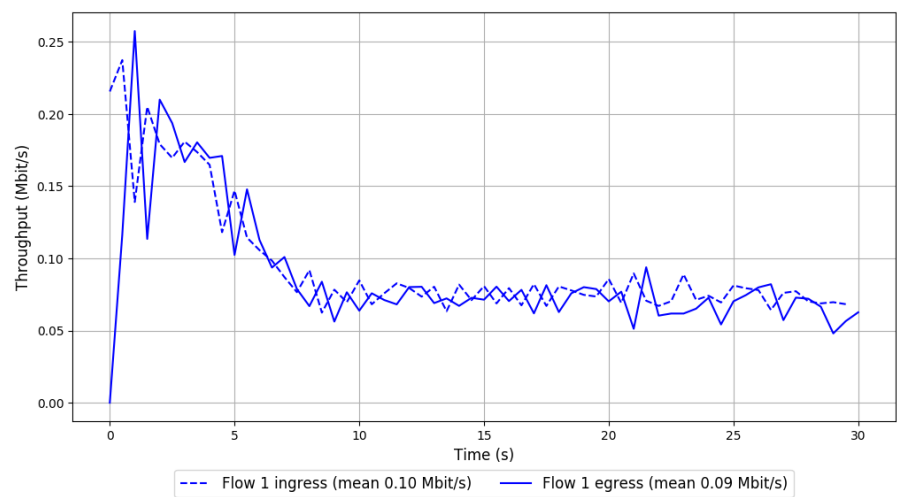


Run 1: Statistics of SCReAM

Start at: 2019-01-25 11:40:26
End at: 2019-01-25 11:40:56
Local clock offset: 1.946 ms
Remote clock offset: 52.726 ms

Below is generated by plot.py at 2019-01-25 17:26:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 170.346 ms
Loss rate: 6.05%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 170.346 ms
Loss rate: 6.05%

Run 1: Report of SReAM — Data Link

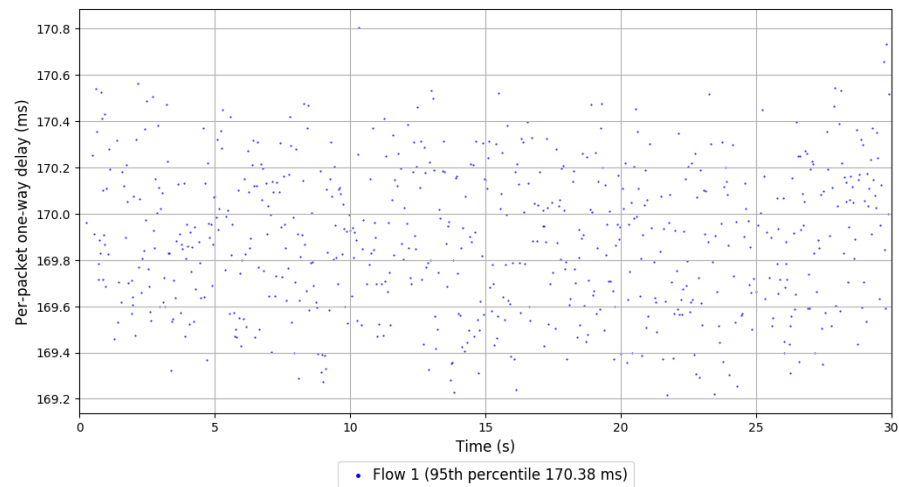
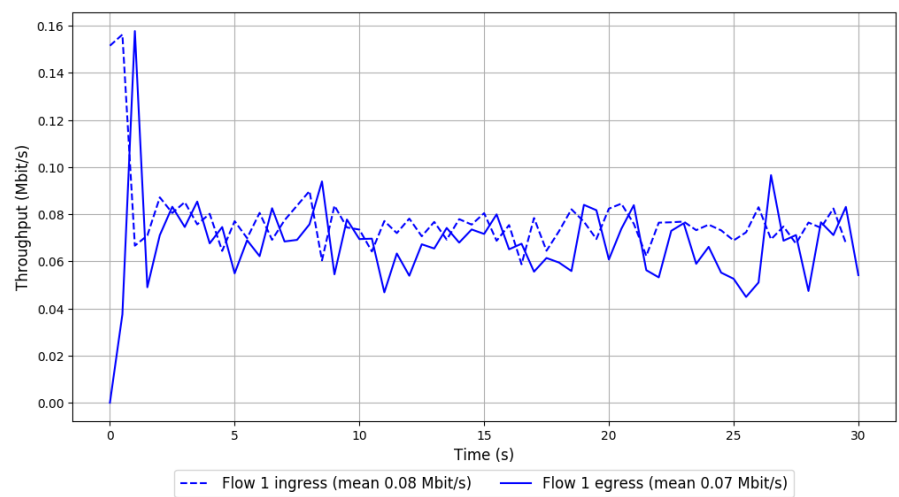


Run 2: Statistics of SCReAM

Start at: 2019-01-25 13:17:25
End at: 2019-01-25 13:17:55
Local clock offset: 0.74 ms
Remote clock offset: 50.035 ms

Below is generated by plot.py at 2019-01-25 17:26:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 170.384 ms
Loss rate: 11.28%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 170.384 ms
Loss rate: 11.28%

Run 2: Report of SReAM — Data Link

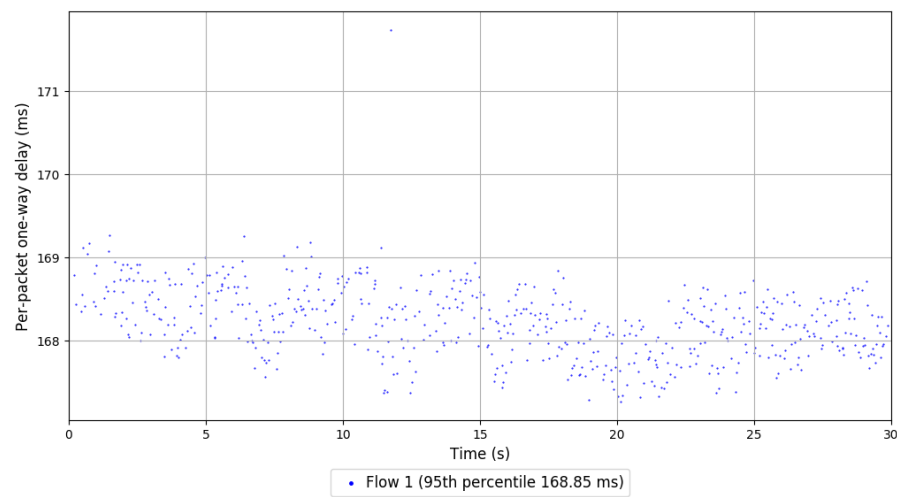
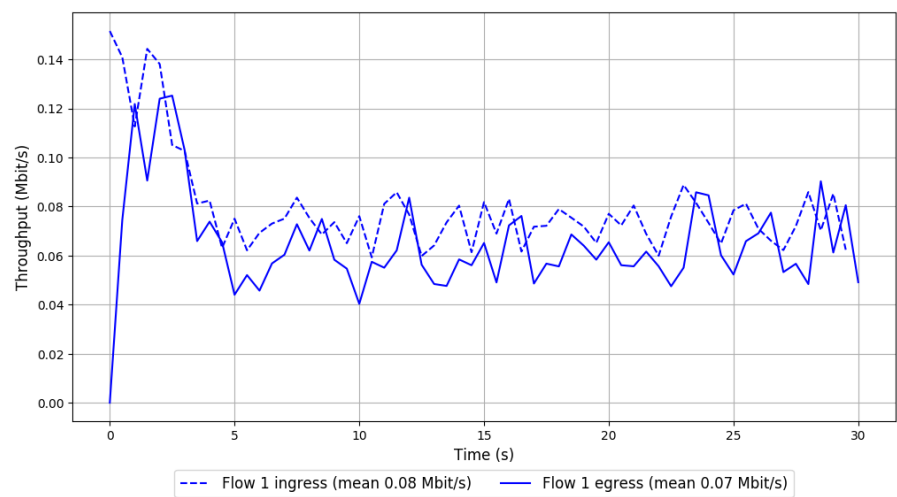


Run 3: Statistics of SCReAM

Start at: 2019-01-25 14:40:10
End at: 2019-01-25 14:40:40
Local clock offset: 22.613 ms
Remote clock offset: 49.185 ms

Below is generated by plot.py at 2019-01-25 17:26:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 168.855 ms
Loss rate: 17.44%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 168.855 ms
Loss rate: 17.44%

Run 3: Report of SReAM — Data Link

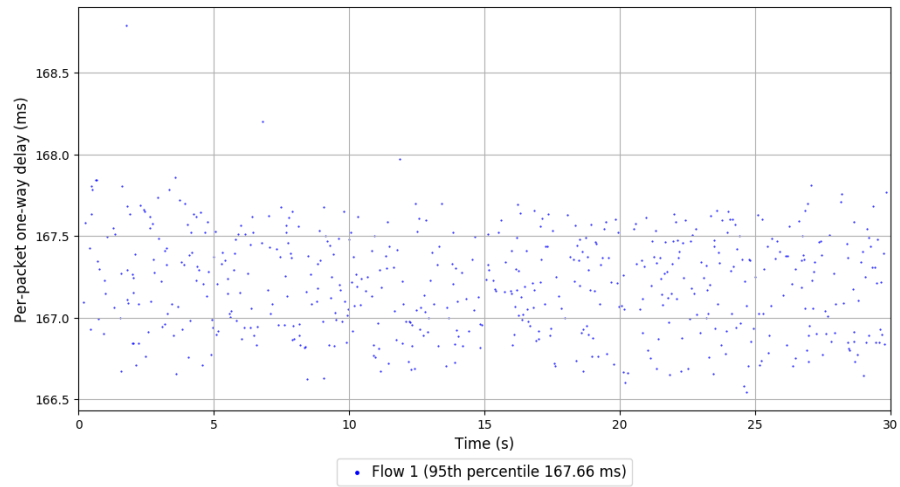
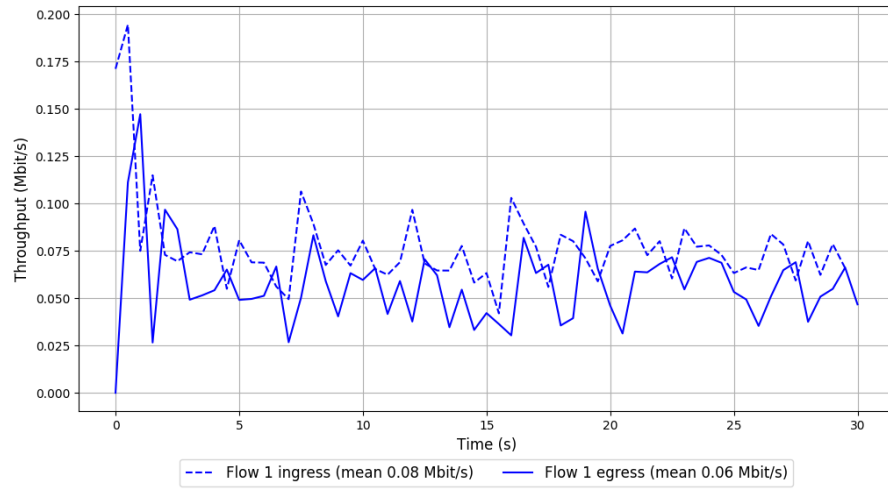


Run 4: Statistics of SCReAM

Start at: 2019-01-25 16:08:11
End at: 2019-01-25 16:08:41
Local clock offset: 2.181 ms
Remote clock offset: 46.083 ms

Below is generated by plot.py at 2019-01-25 17:26:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 167.656 ms
Loss rate: 24.51%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 167.656 ms
Loss rate: 24.51%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-01-25 17:18:20

End at: 2019-01-25 17:18:50

Local clock offset: 11.392 ms

Remote clock offset: 49.03 ms

Below is generated by plot.py at 2019-01-25 17:26:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 167.021 ms

Loss rate: 28.84%

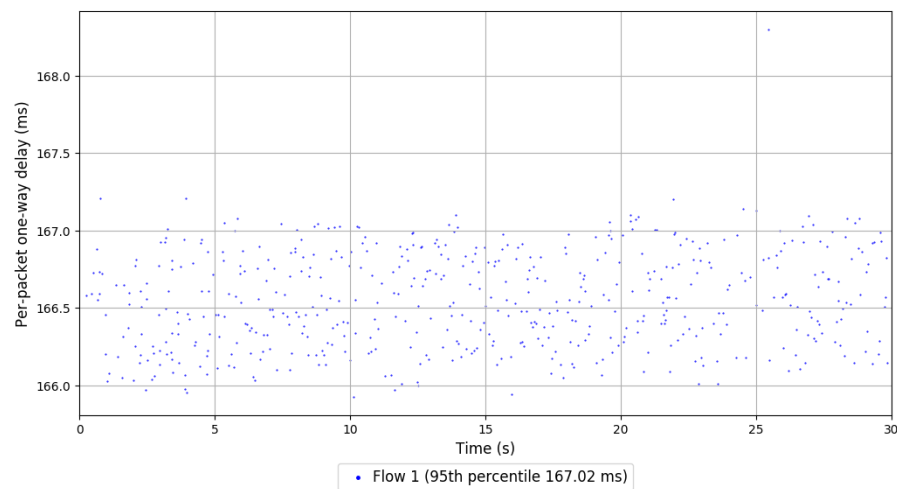
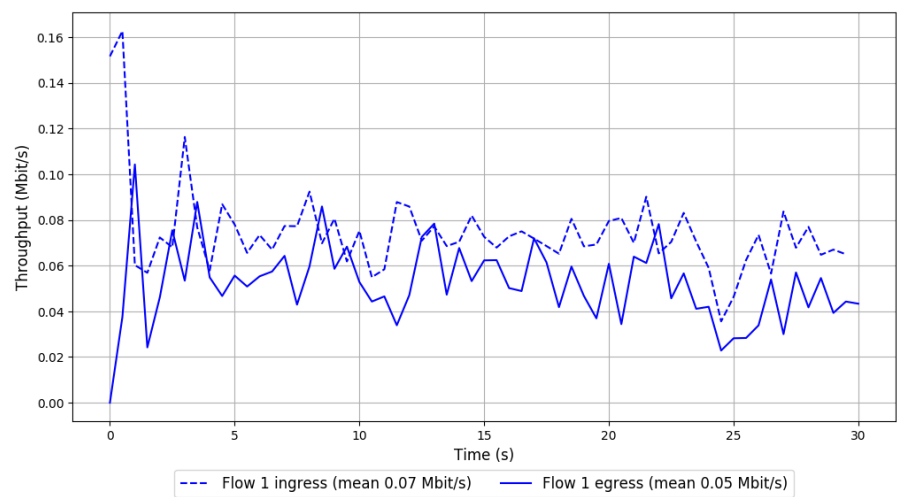
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 167.021 ms

Loss rate: 28.84%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

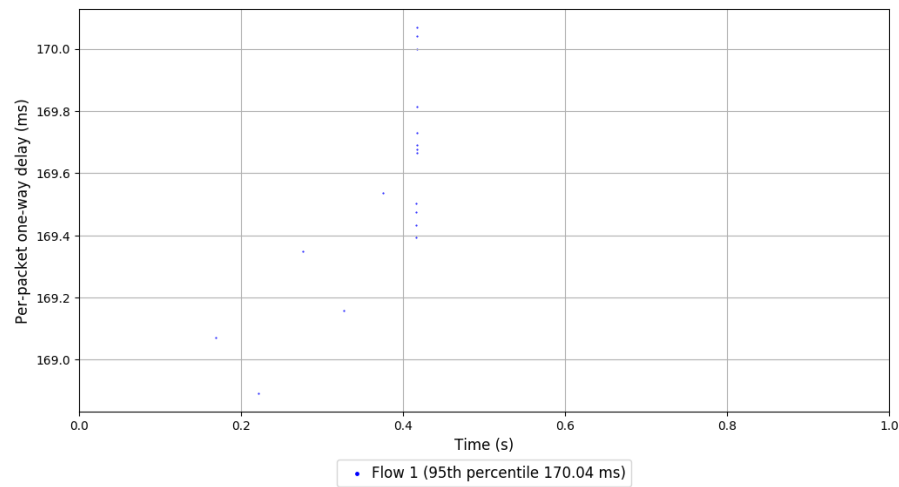
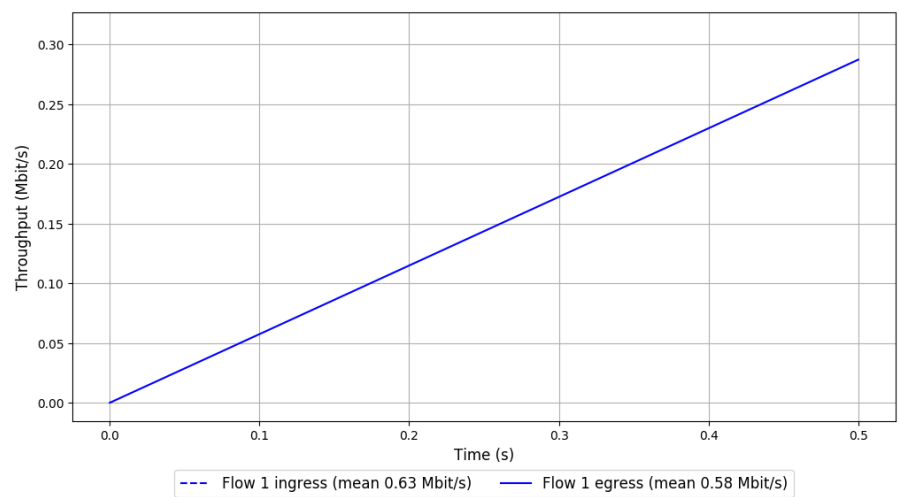
Start at: 2019-01-25 10:51:19

End at: 2019-01-25 10:51:49

Local clock offset: -0.418 ms

Remote clock offset: 37.648 ms

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

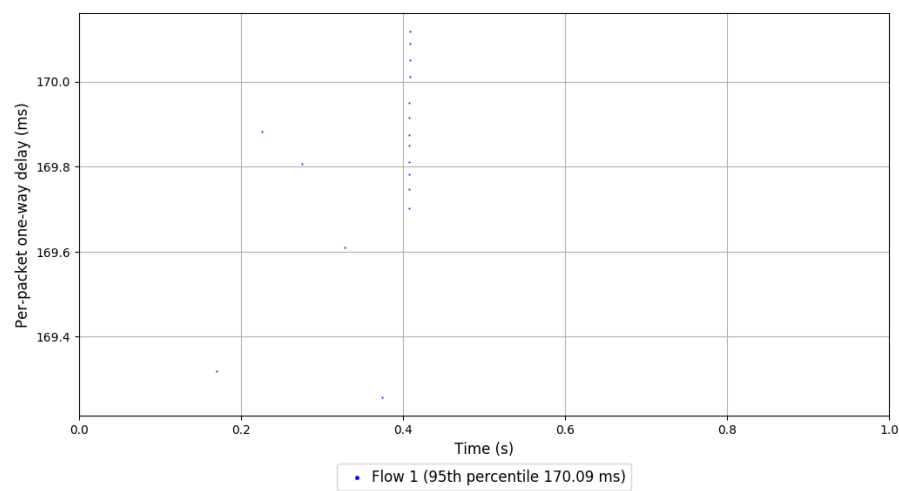
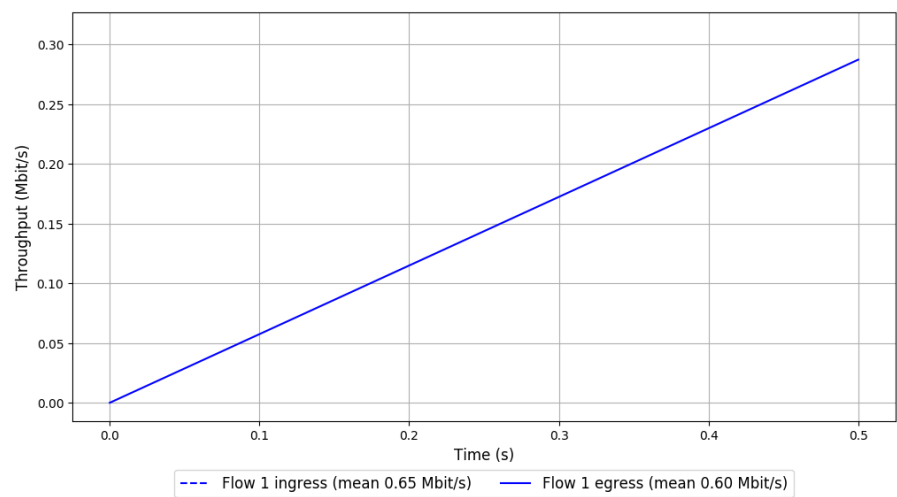
Start at: 2019-01-25 11:53:21

End at: 2019-01-25 11:53:51

Local clock offset: 2.64 ms

Remote clock offset: 48.406 ms

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

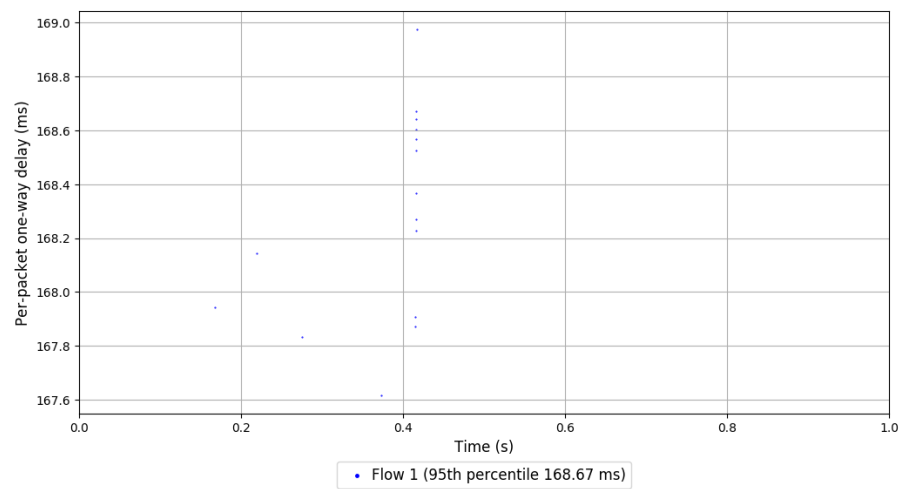
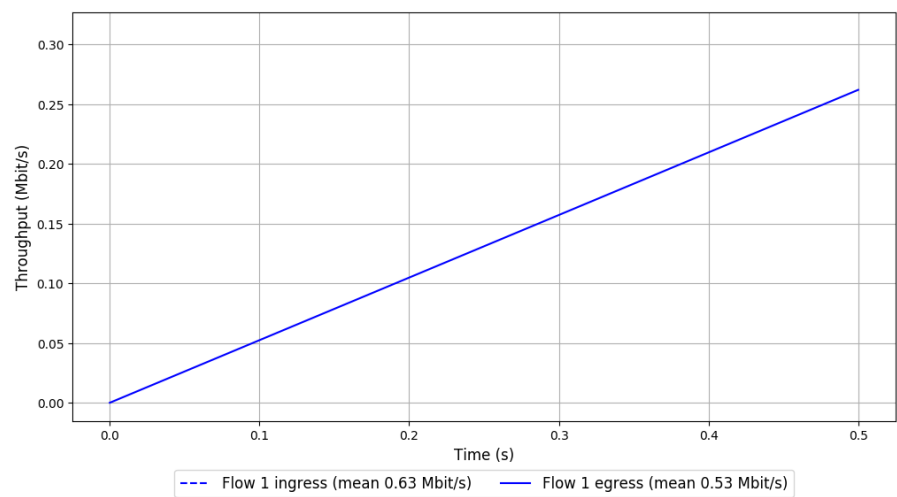
Start at: 2019-01-25 13:42:32

End at: 2019-01-25 13:43:02

Local clock offset: 18.22 ms

Remote clock offset: 50.962 ms

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

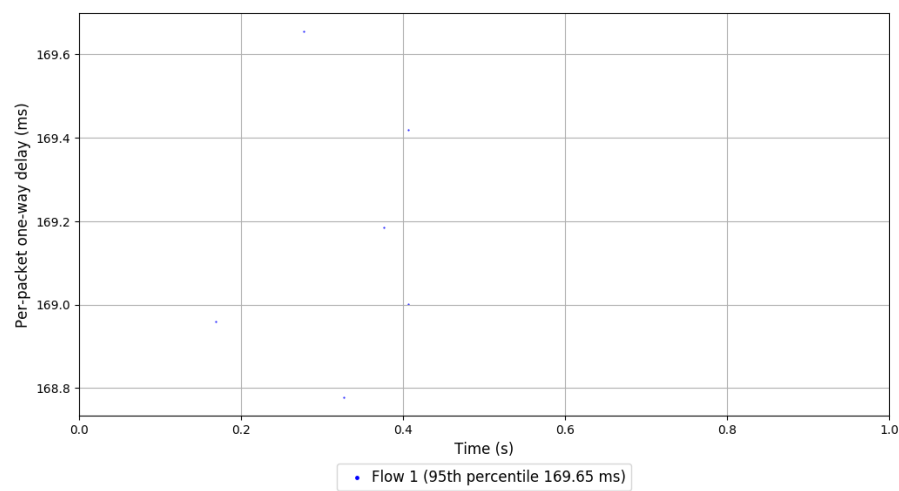
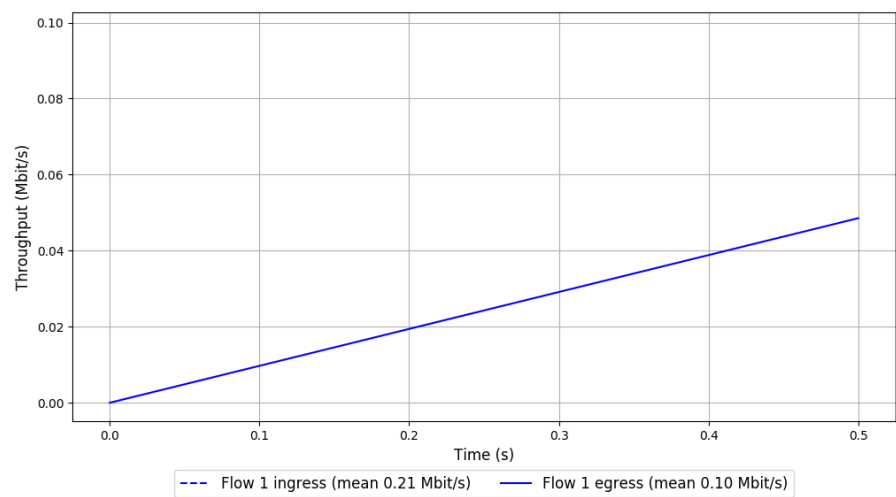
Start at: 2019-01-25 15:07:06

End at: 2019-01-25 15:07:36

Local clock offset: 17.232 ms

Remote clock offset: 47.205 ms

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

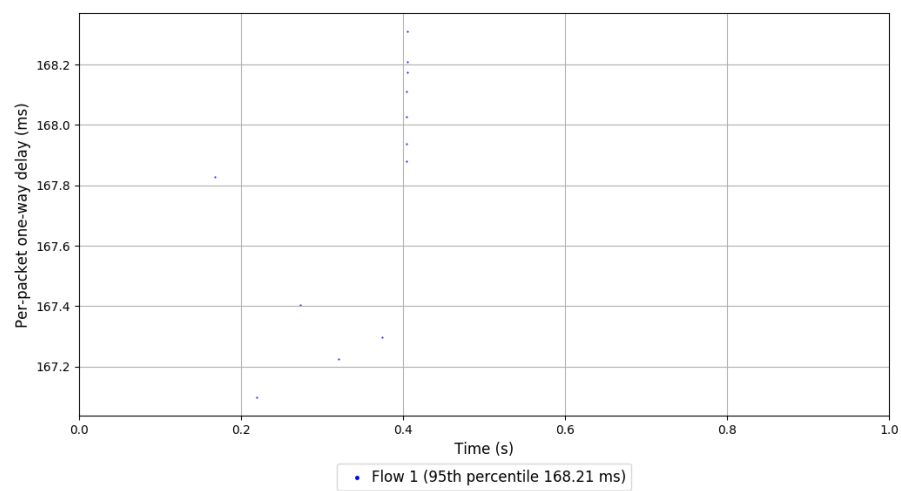
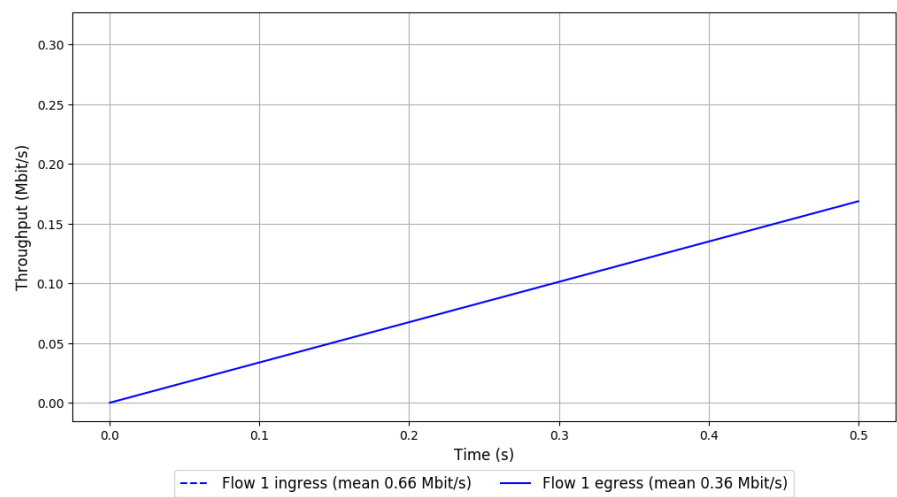
Start at: 2019-01-25 16:25:12

End at: 2019-01-25 16:25:42

Local clock offset: 1.577 ms

Remote clock offset: 46.148 ms

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

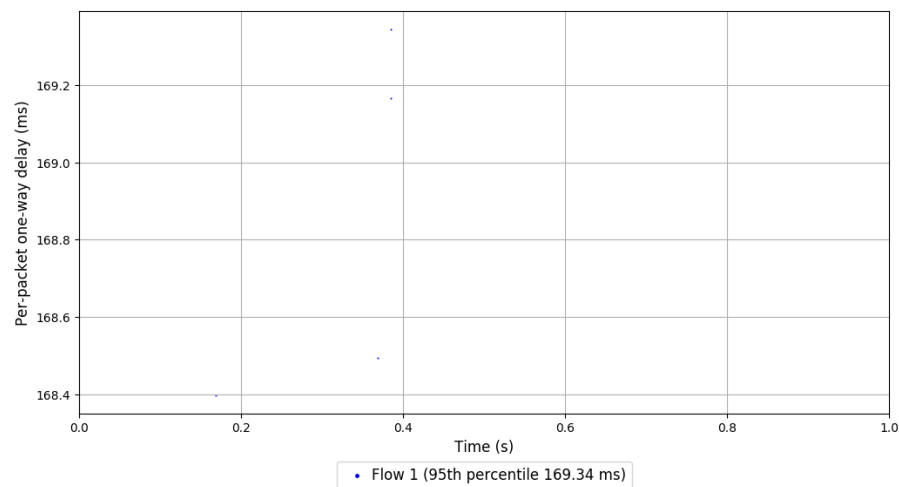
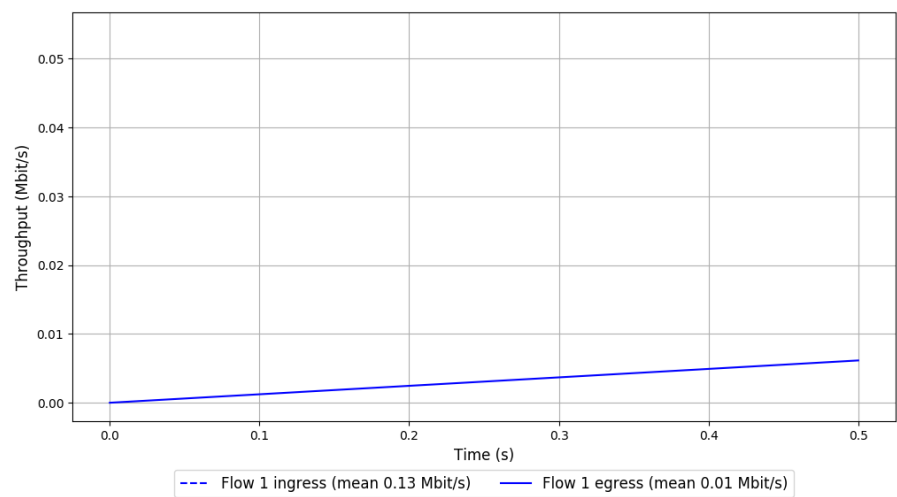
Start at: 2019-01-25 10:41:39

End at: 2019-01-25 10:42:09

Local clock offset: -0.161 ms

Remote clock offset: 4.482 ms

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

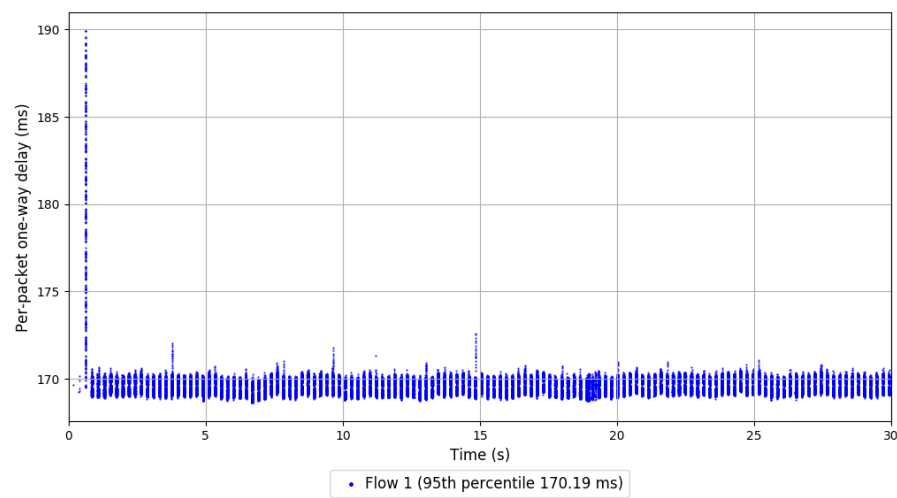
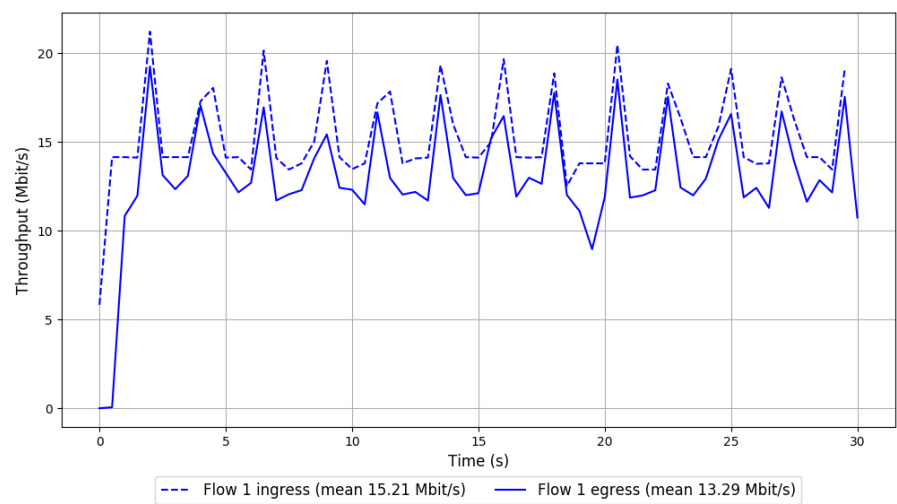


Run 2: Statistics of TaoVA-100x

Start at: 2019-01-25 11:42:51
End at: 2019-01-25 11:43:21
Local clock offset: 1.983 ms
Remote clock offset: 53.324 ms

Below is generated by plot.py at 2019-01-25 17:26:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.29 Mbit/s
95th percentile per-packet one-way delay: 170.185 ms
Loss rate: 13.28%
-- Flow 1:
Average throughput: 13.29 Mbit/s
95th percentile per-packet one-way delay: 170.185 ms
Loss rate: 13.28%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-01-25 13:19:58

End at: 2019-01-25 13:20:28

Local clock offset: 0.741 ms

Remote clock offset: 50.876 ms

Below is generated by plot.py at 2019-01-25 17:26:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.70 Mbit/s

95th percentile per-packet one-way delay: 214.059 ms

Loss rate: 79.42%

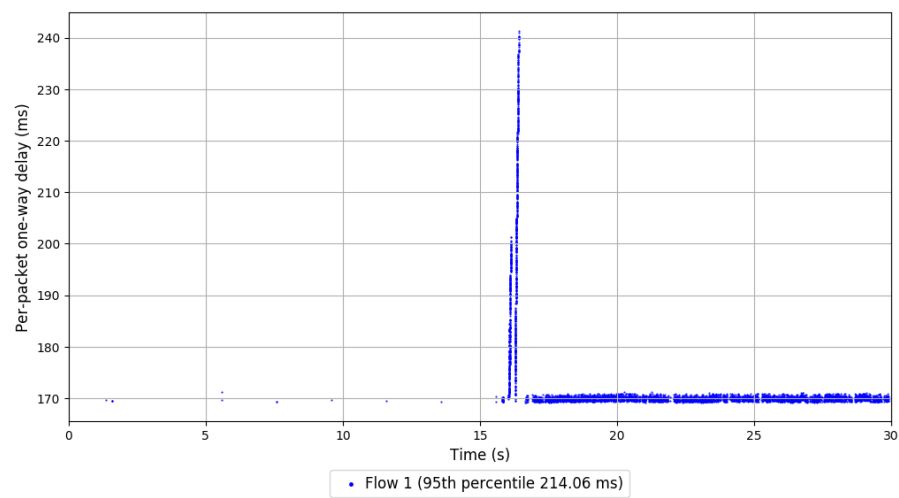
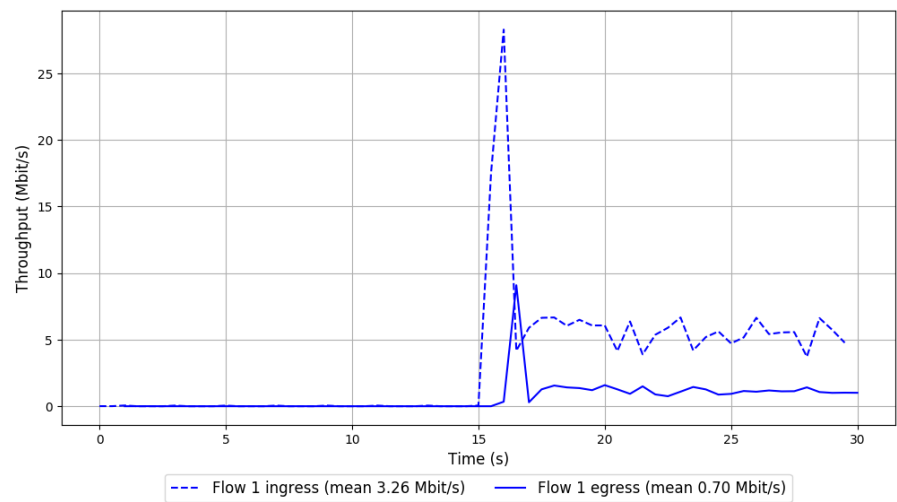
-- Flow 1:

Average throughput: 0.70 Mbit/s

95th percentile per-packet one-way delay: 214.059 ms

Loss rate: 79.42%

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



Run 4: Statistics of TaoVA-100x

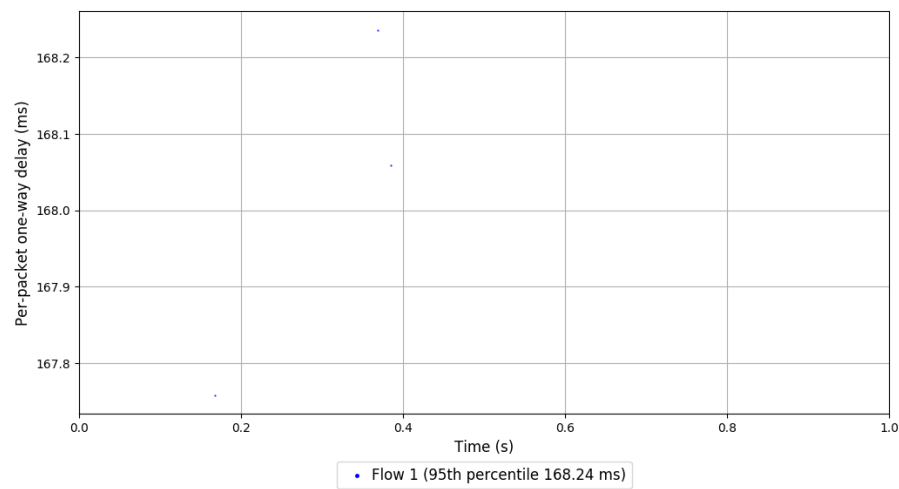
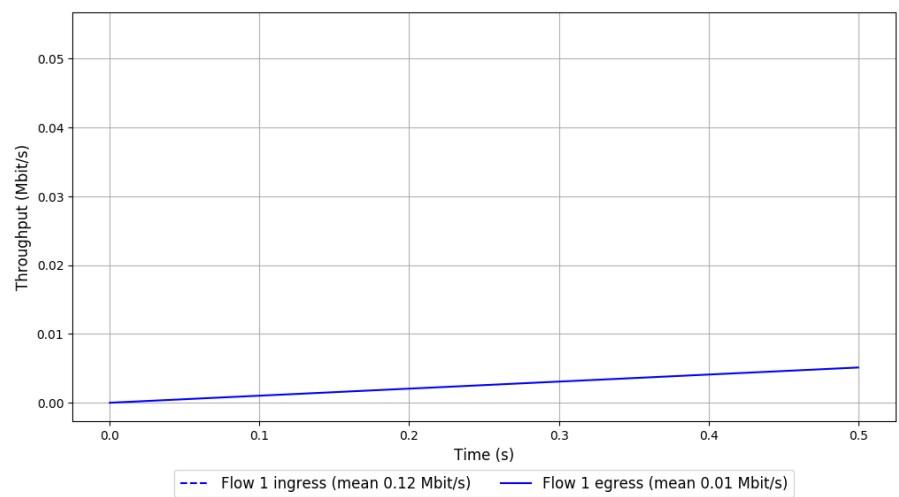
Start at: 2019-01-25 14:49:45

End at: 2019-01-25 14:50:15

Local clock offset: 26.928 ms

Remote clock offset: 48.403 ms

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

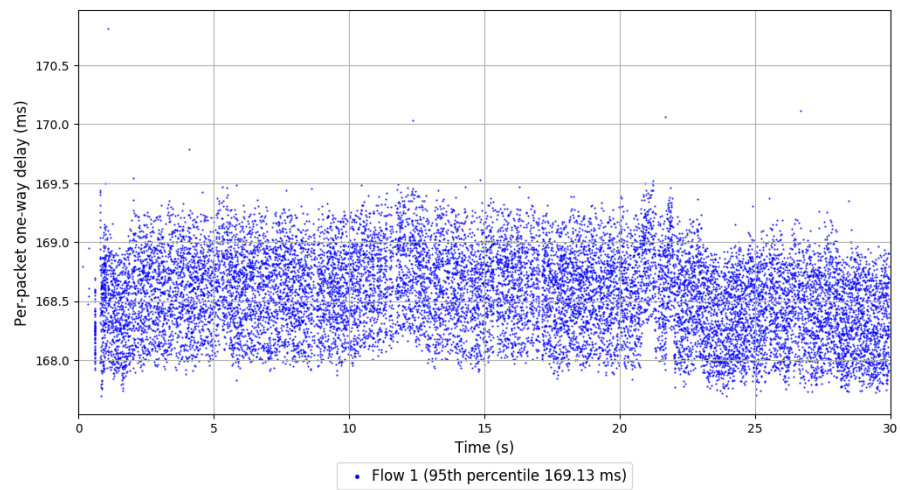
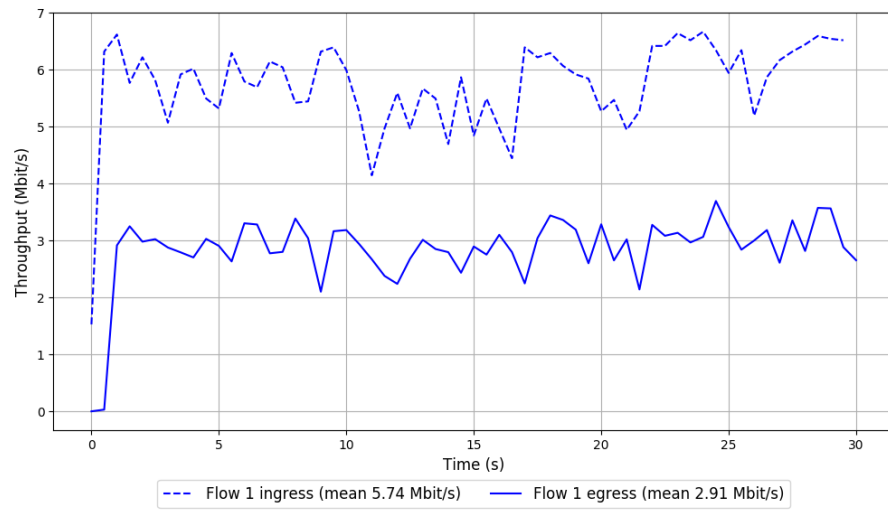


Run 5: Statistics of TaoVA-100x

Start at: 2019-01-25 16:10:58
End at: 2019-01-25 16:11:28
Local clock offset: 2.166 ms
Remote clock offset: 45.823 ms

Below is generated by plot.py at 2019-01-25 17:26:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.91 Mbit/s
95th percentile per-packet one-way delay: 169.129 ms
Loss rate: 49.62%
-- Flow 1:
Average throughput: 2.91 Mbit/s
95th percentile per-packet one-way delay: 169.129 ms
Loss rate: 49.62%

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



Run 1: Statistics of TCP Vegas

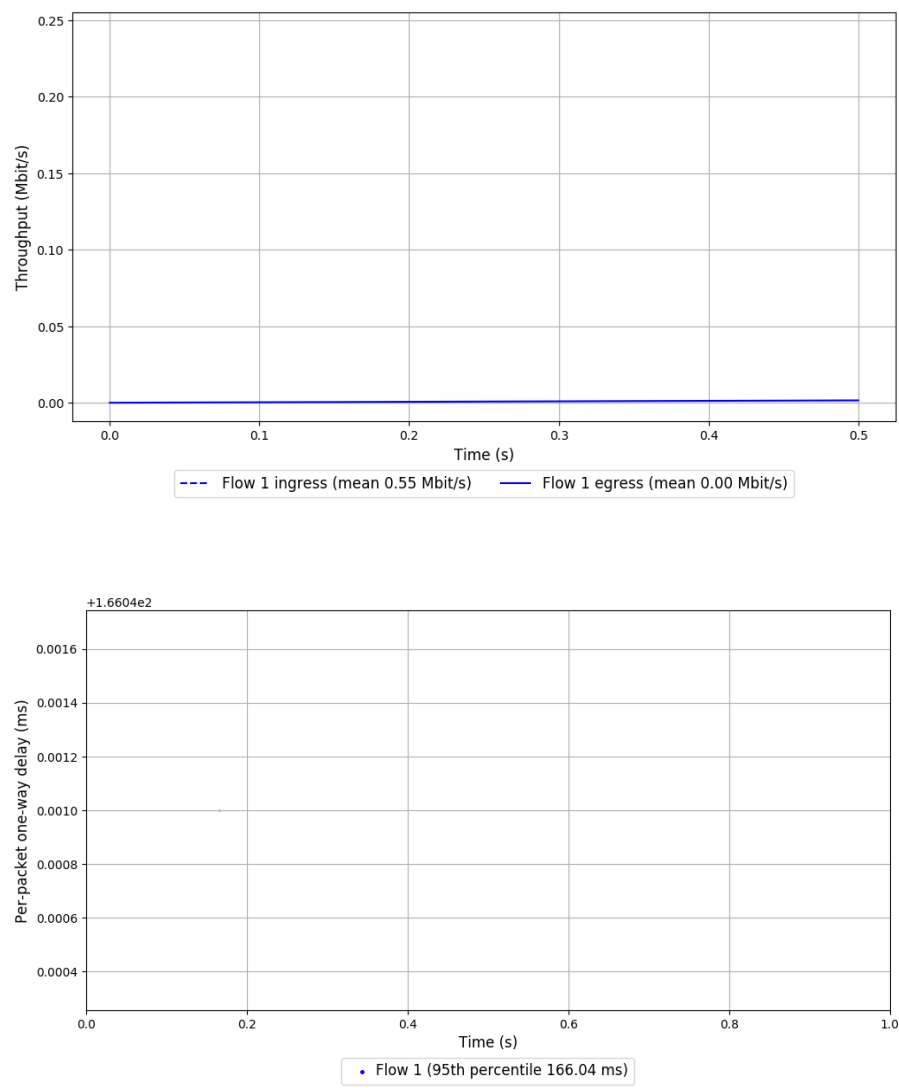
Start at: 2019-01-25 11:19:45

End at: 2019-01-25 11:20:15

Local clock offset: -0.545 ms

Remote clock offset: 57.734 ms

Run 1: Report of TCP Vegas — Data Link

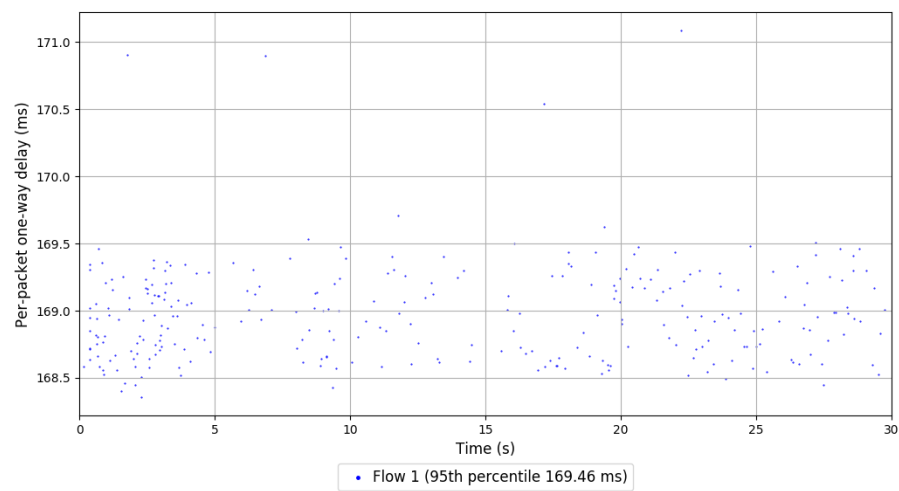
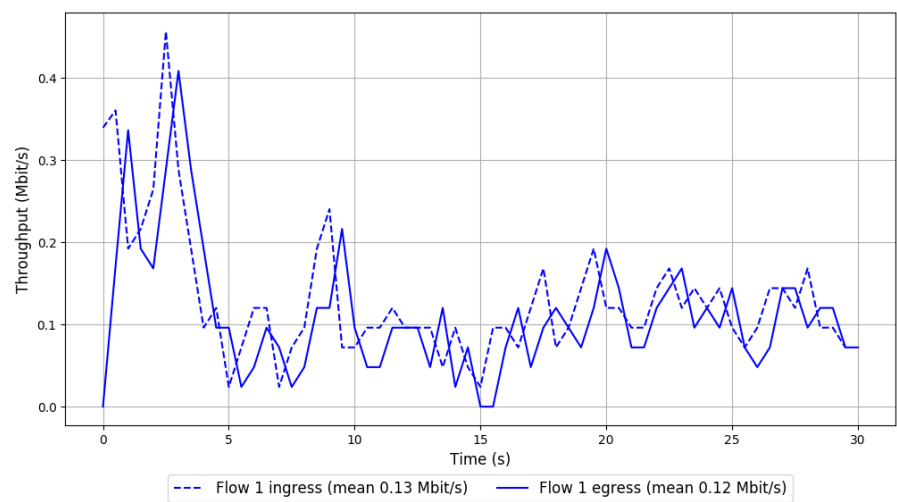


Run 2: Statistics of TCP Vegas

Start at: 2019-01-25 12:57:58
End at: 2019-01-25 12:58:28
Local clock offset: 0.09 ms
Remote clock offset: 49.493 ms

Below is generated by plot.py at 2019-01-25 17:26:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 169.458 ms
Loss rate: 13.41%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 169.458 ms
Loss rate: 13.41%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

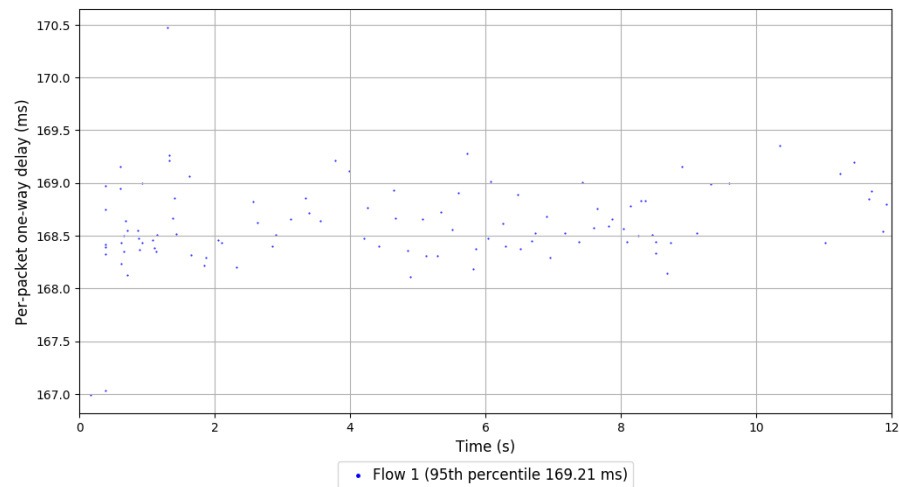
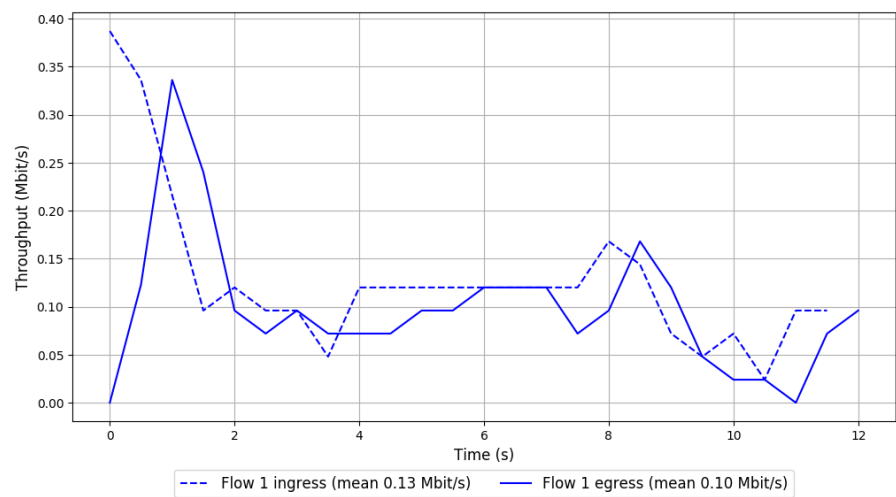
Start at: 2019-01-25 14:23:57

End at: 2019-01-25 14:24:27

Local clock offset: 12.809 ms

Remote clock offset: 50.434 ms

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-01-25 15:54:34

End at: 2019-01-25 15:55:04

Local clock offset: 1.308 ms

Remote clock offset: 46.12 ms

Below is generated by plot.py at 2019-01-25 17:26:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 169.163 ms

Loss rate: 40.62%

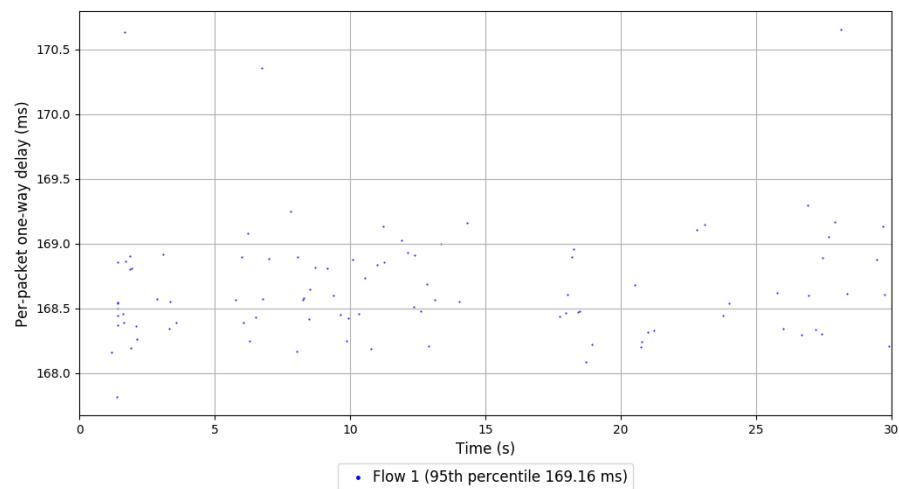
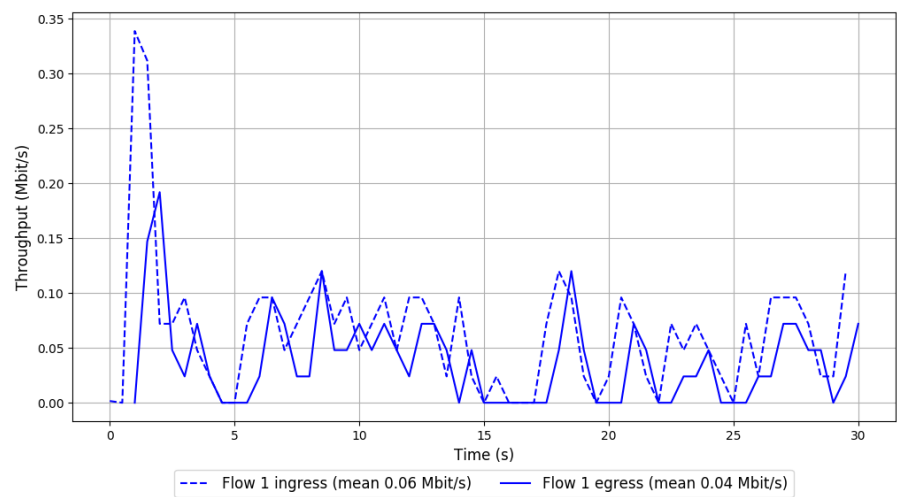
-- Flow 1:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 169.163 ms

Loss rate: 40.62%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

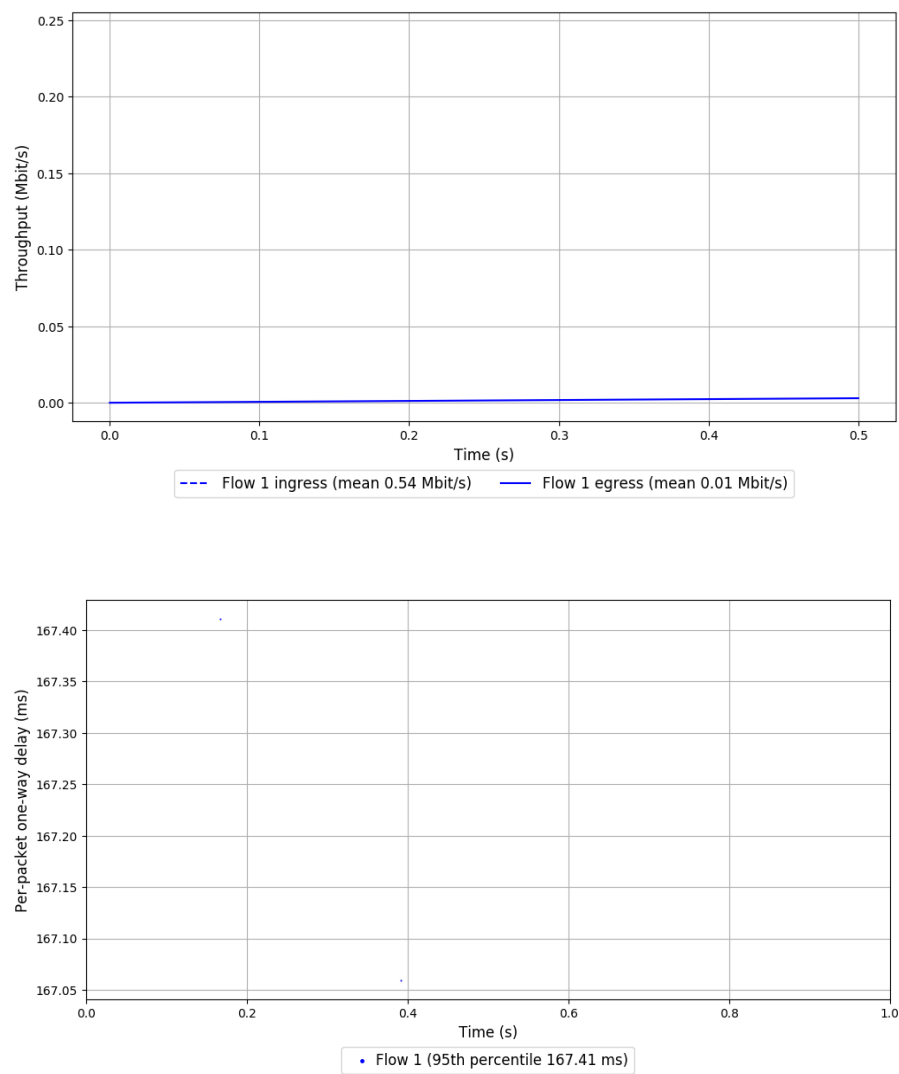
Start at: 2019-01-25 17:04:25

End at: 2019-01-25 17:04:55

Local clock offset: 11.104 ms

Remote clock offset: 47.897 ms

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-01-25 10:42:50

End at: 2019-01-25 10:43:20

Local clock offset: -0.143 ms

Remote clock offset: 9.733 ms

Below is generated by plot.py at 2019-01-25 17:26:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.83 Mbit/s

95th percentile per-packet one-way delay: 281.048 ms

Loss rate: 15.65%

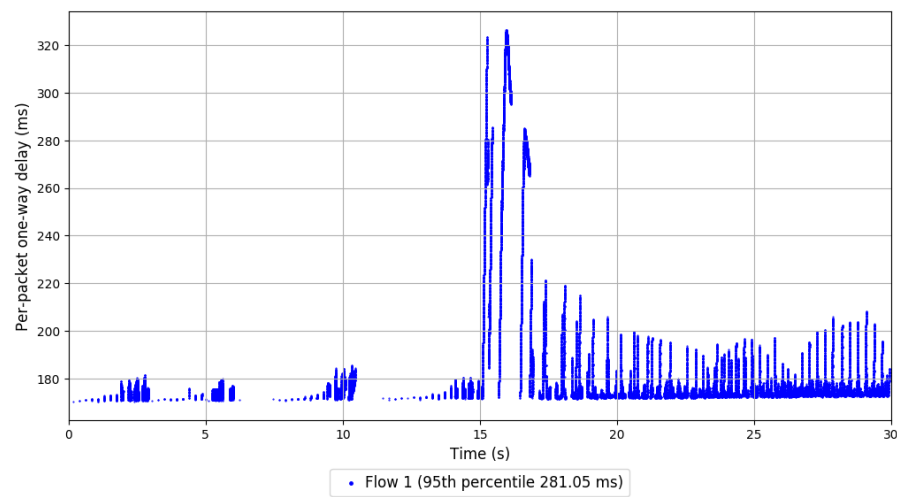
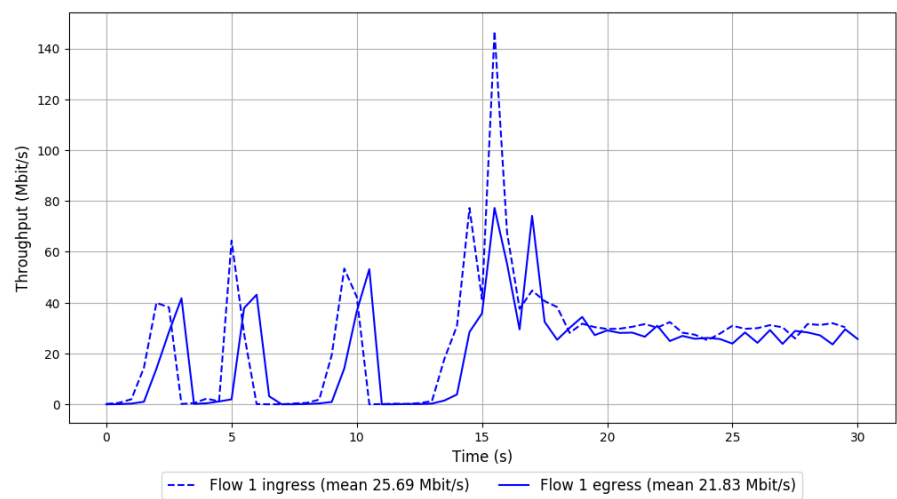
-- Flow 1:

Average throughput: 21.83 Mbit/s

95th percentile per-packet one-way delay: 281.048 ms

Loss rate: 15.65%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

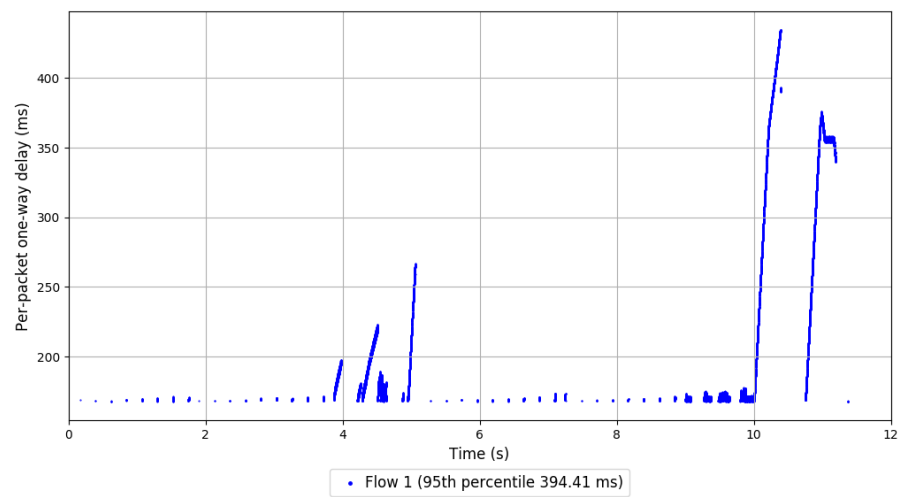
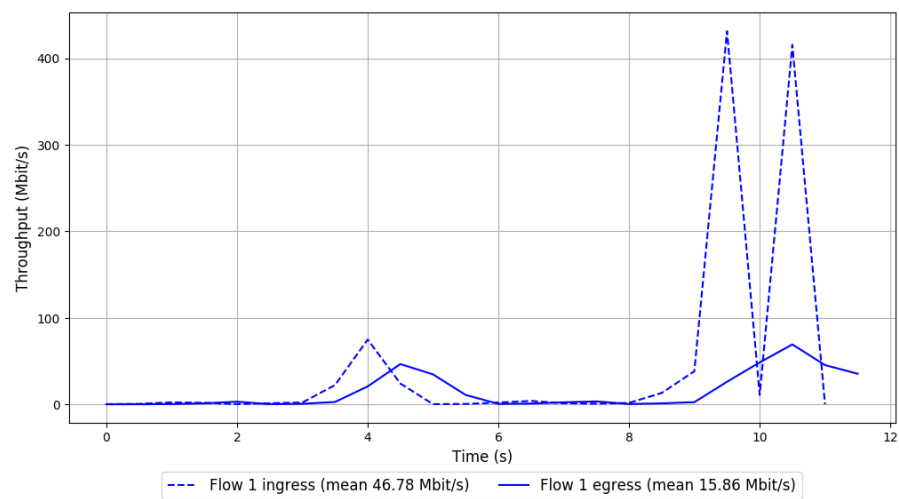
Start at: 2019-01-25 11:45:58

End at: 2019-01-25 11:46:28

Local clock offset: 2.217 ms

Remote clock offset: 55.56 ms

Run 2: Report of Verus — Data Link

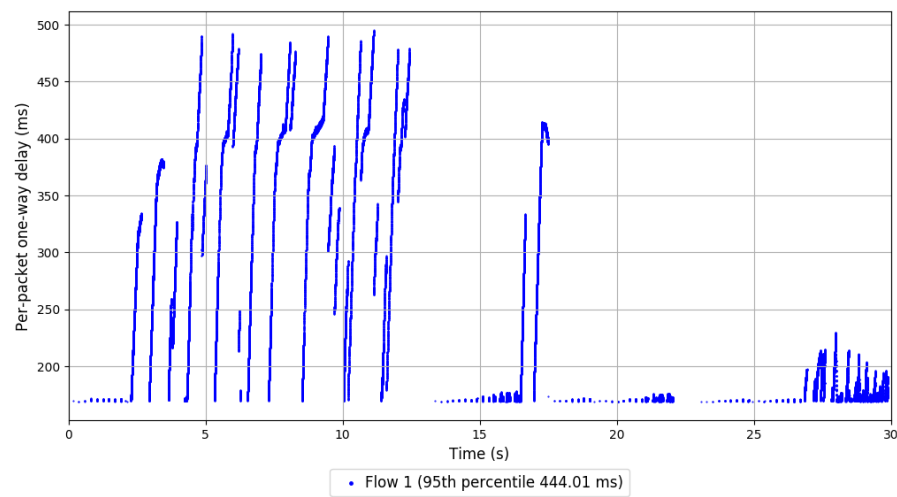
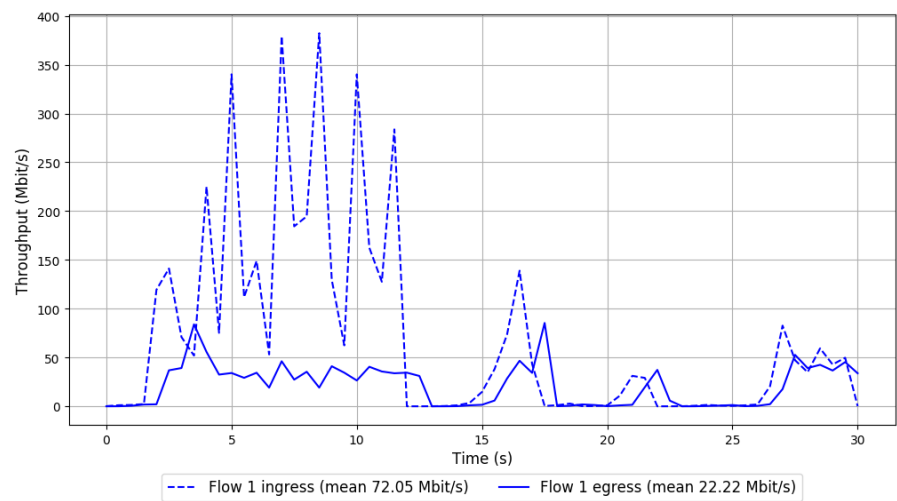


Run 3: Statistics of Verus

Start at: 2019-01-25 13:24:02
End at: 2019-01-25 13:24:32
Local clock offset: 0.712 ms
Remote clock offset: 51.157 ms

Below is generated by plot.py at 2019-01-25 17:26:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 22.22 Mbit/s
95th percentile per-packet one-way delay: 444.012 ms
Loss rate: 69.45%
-- Flow 1:
Average throughput: 22.22 Mbit/s
95th percentile per-packet one-way delay: 444.012 ms
Loss rate: 69.45%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-01-25 14:51:00

End at: 2019-01-25 14:51:30

Local clock offset: 27.414 ms

Remote clock offset: 47.86 ms

Below is generated by plot.py at 2019-01-25 17:26:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.71 Mbit/s

95th percentile per-packet one-way delay: 183.545 ms

Loss rate: 22.95%

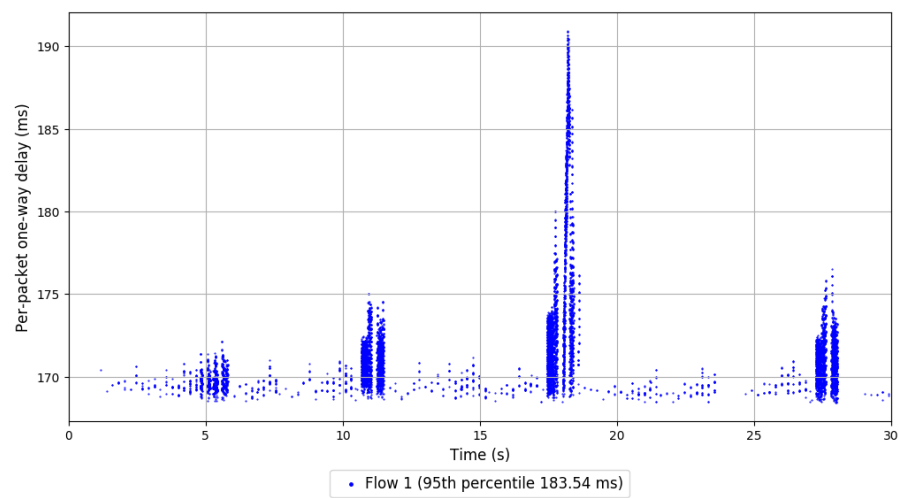
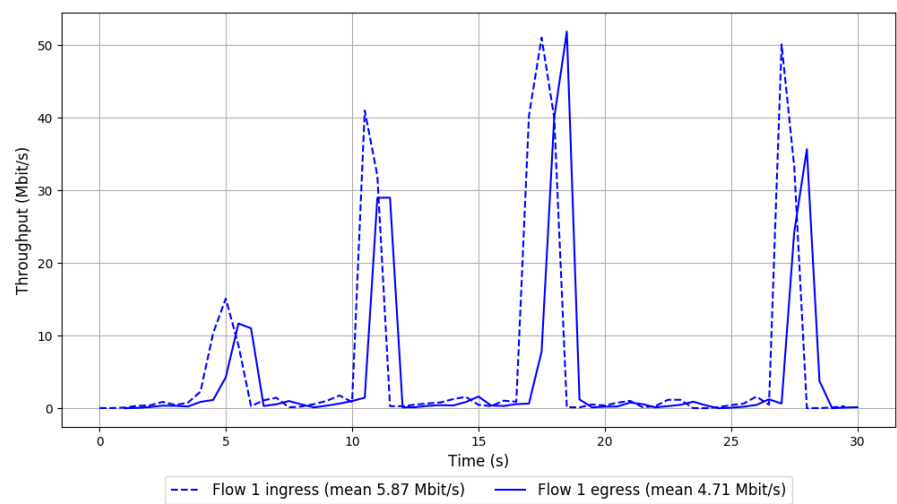
-- Flow 1:

Average throughput: 4.71 Mbit/s

95th percentile per-packet one-way delay: 183.545 ms

Loss rate: 22.95%

Run 4: Report of Verus — Data Link

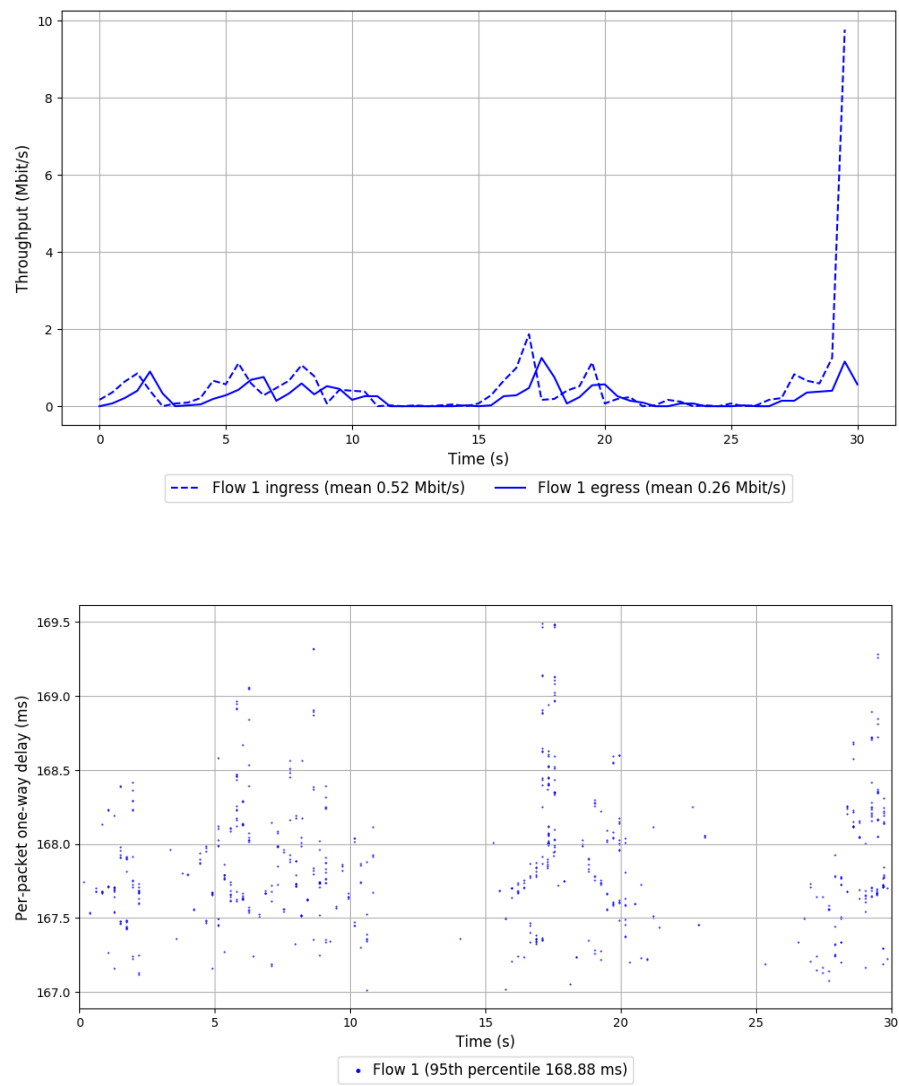


Run 5: Statistics of Verus

Start at: 2019-01-25 16:16:13
End at: 2019-01-25 16:16:43
Local clock offset: 2.188 ms
Remote clock offset: 45.688 ms

Below is generated by plot.py at 2019-01-25 17:26:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 168.882 ms
Loss rate: 49.62%
-- Flow 1:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 168.882 ms
Loss rate: 49.62%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-01-25 11:38:47

End at: 2019-01-25 11:39:17

Local clock offset: 1.451 ms

Remote clock offset: 52.34 ms

Below is generated by plot.py at 2019-01-25 17:26:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 169.705 ms

Loss rate: 7.48%

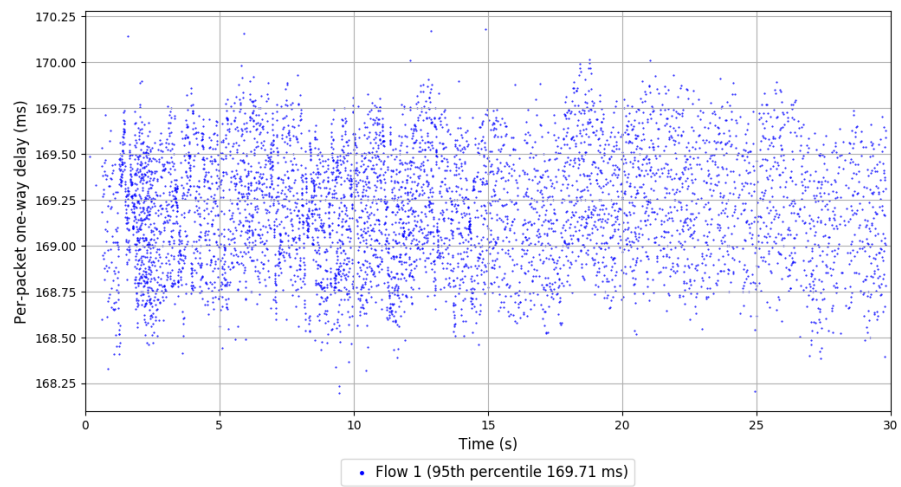
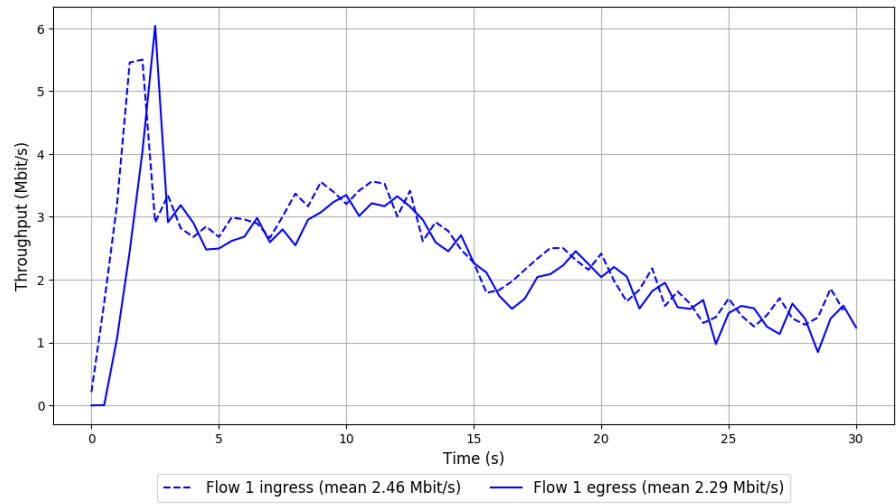
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 169.705 ms

Loss rate: 7.48%

Run 1: Report of PCC-Vivace — Data Link

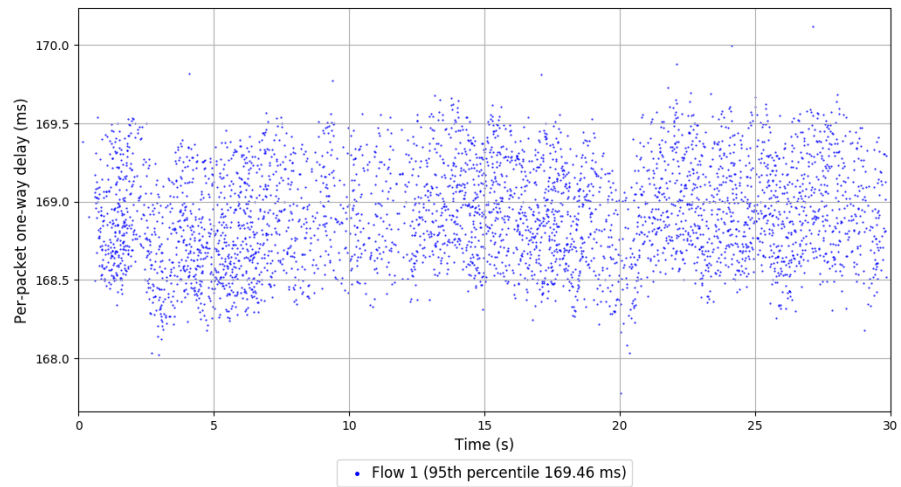
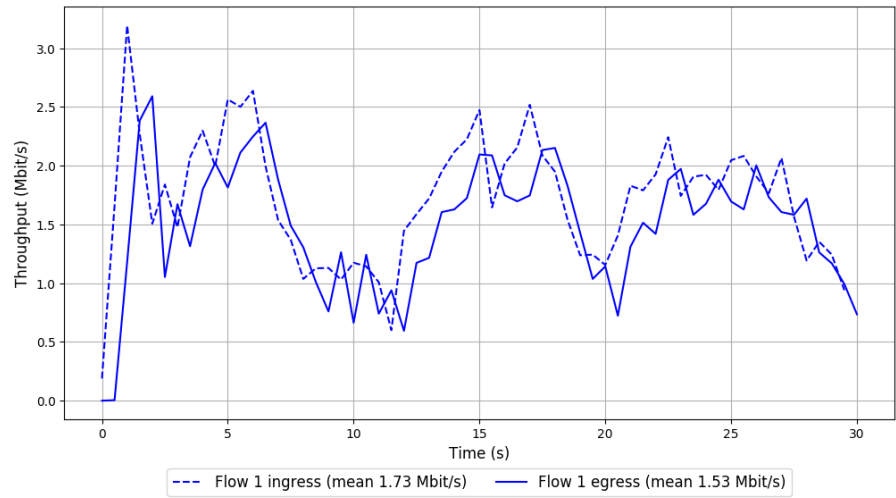


Run 2: Statistics of PCC-Vivace

Start at: 2019-01-25 13:15:55
End at: 2019-01-25 13:16:25
Local clock offset: 1.014 ms
Remote clock offset: 51.175 ms

Below is generated by plot.py at 2019-01-25 17:26:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 169.455 ms
Loss rate: 11.81%
-- Flow 1:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 169.455 ms
Loss rate: 11.81%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-01-25 14:38:22

End at: 2019-01-25 14:38:52

Local clock offset: 21.76 ms

Remote clock offset: 49.674 ms

Below is generated by plot.py at 2019-01-25 17:26:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 168.697 ms

Loss rate: 16.27%

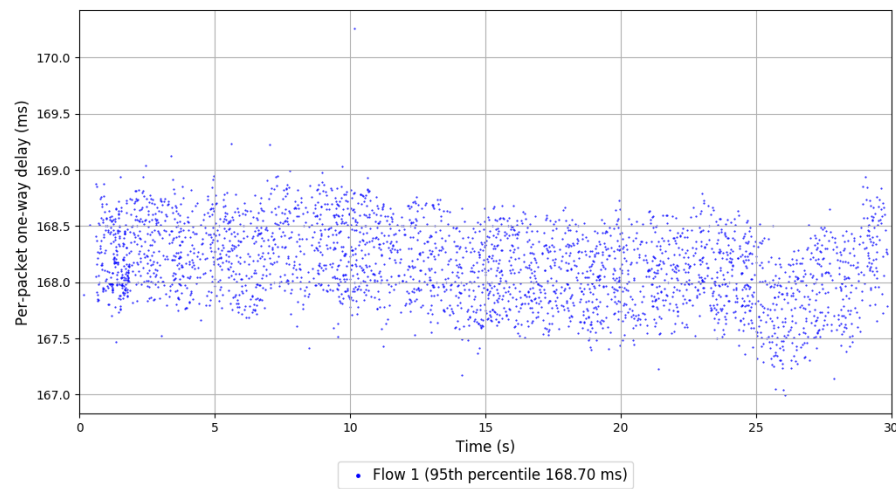
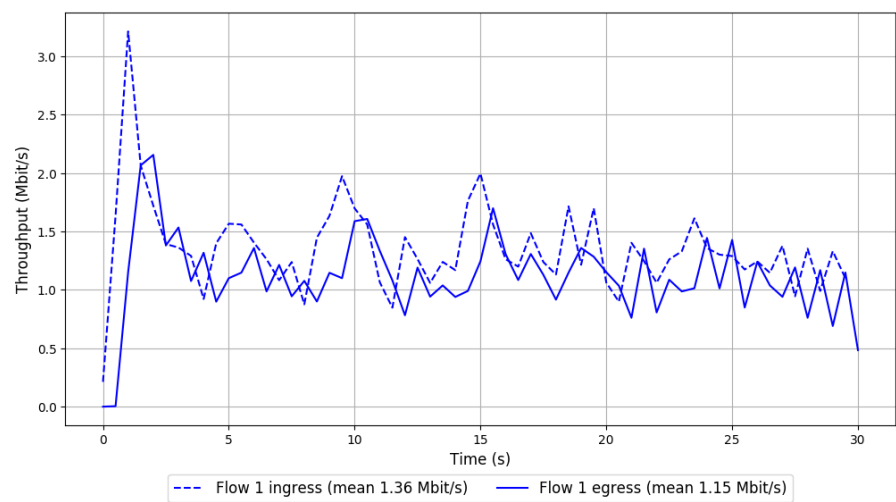
-- Flow 1:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 168.697 ms

Loss rate: 16.27%

Run 3: Report of PCC-Vivace — Data Link

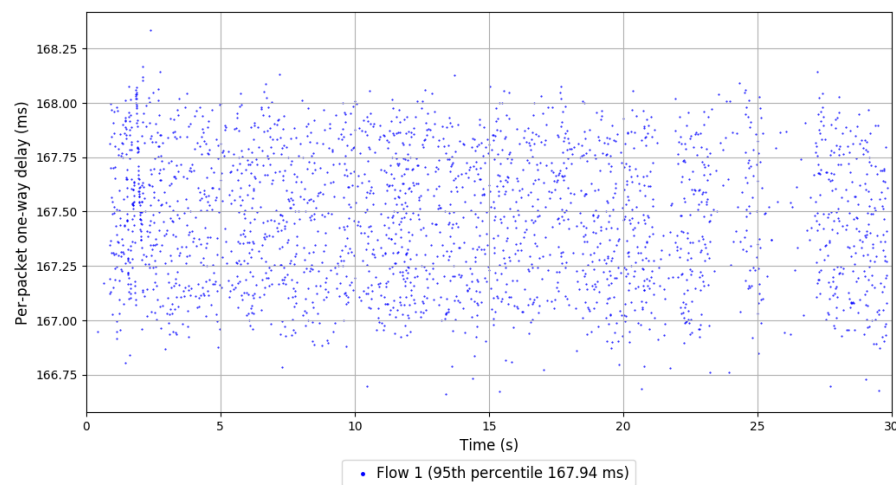
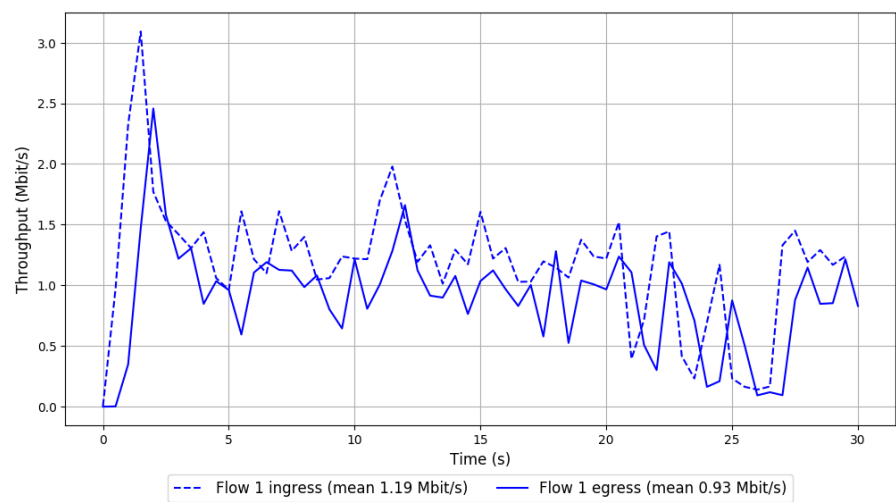


Run 4: Statistics of PCC-Vivace

Start at: 2019-01-25 16:06:11
End at: 2019-01-25 16:06:41
Local clock offset: 1.752 ms
Remote clock offset: 45.776 ms

Below is generated by plot.py at 2019-01-25 17:26:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 167.945 ms
Loss rate: 22.58%
-- Flow 1:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 167.945 ms
Loss rate: 22.58%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-01-25 17:16:13

End at: 2019-01-25 17:16:43

Local clock offset: 11.231 ms

Remote clock offset: 49.63 ms

Below is generated by plot.py at 2019-01-25 17:26:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 166.849 ms

Loss rate: 26.70%

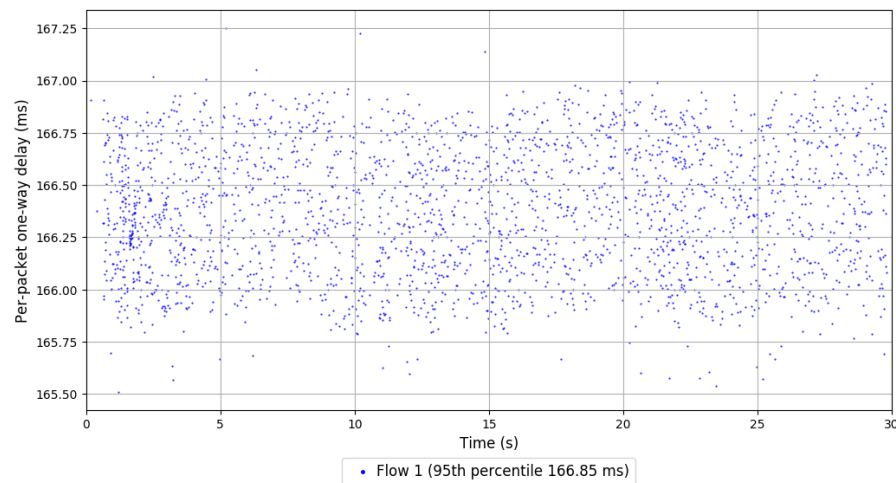
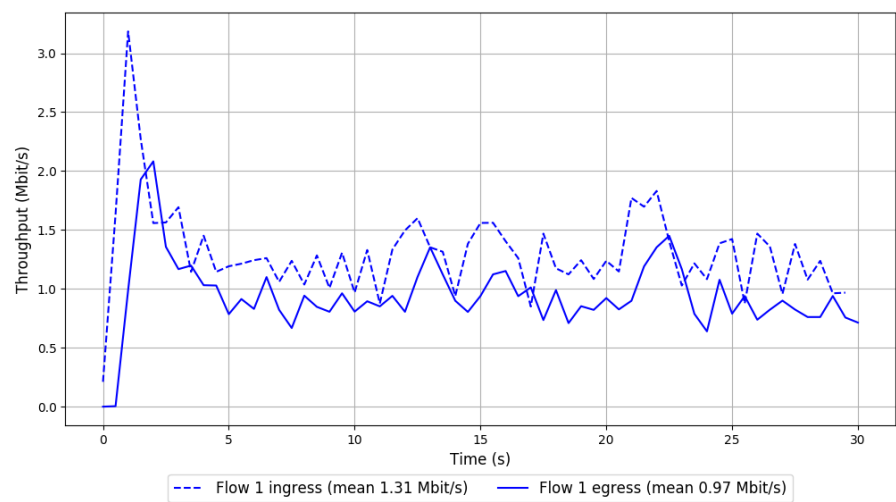
-- Flow 1:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 166.849 ms

Loss rate: 26.70%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

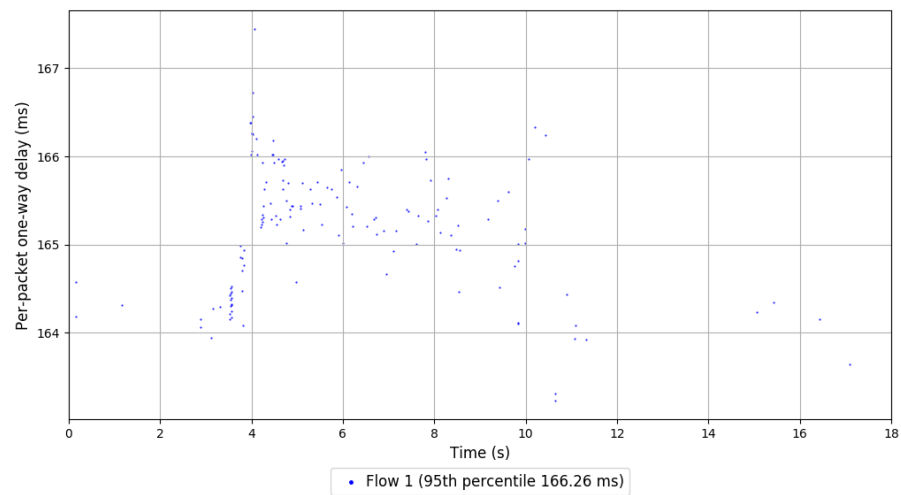
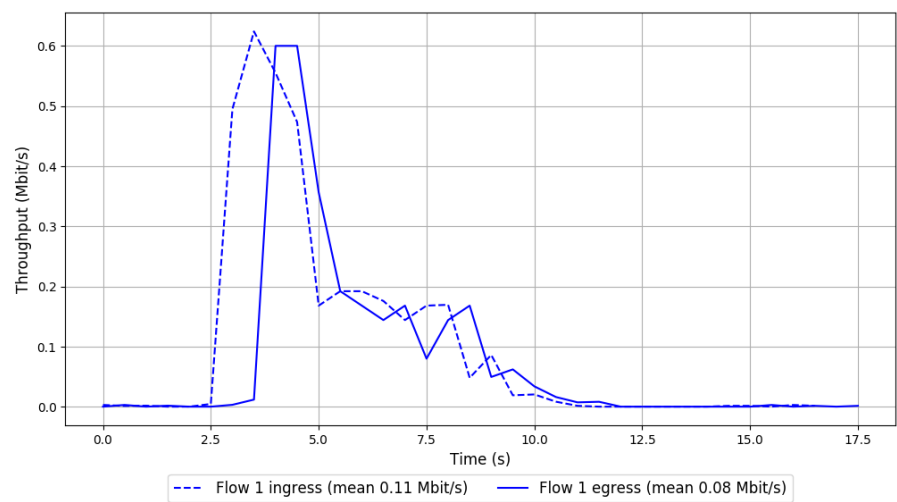
Start at: 2019-01-25 11:12:39

End at: 2019-01-25 11:13:09

Local clock offset: -0.33 ms

Remote clock offset: 67.049 ms

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

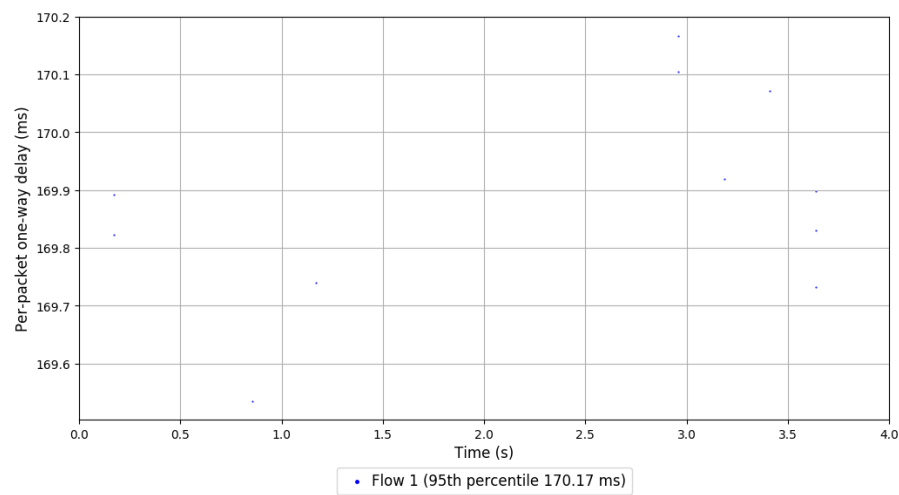
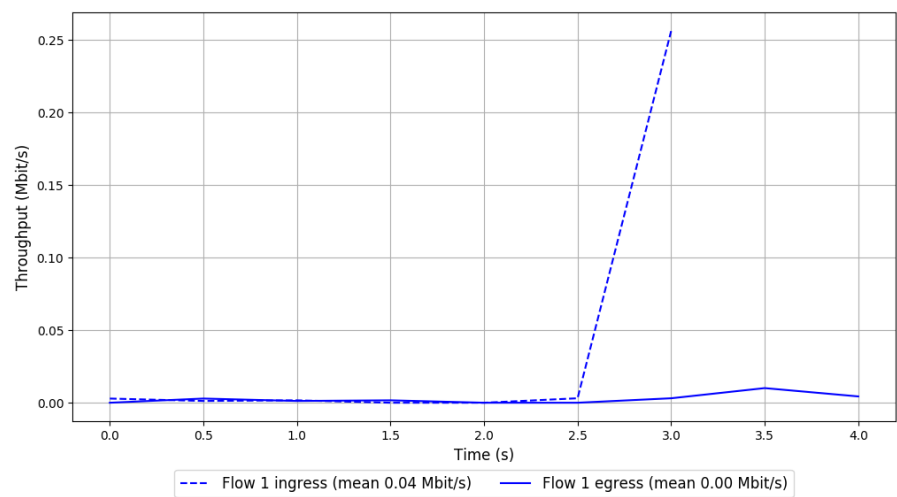
Start at: 2019-01-25 12:41:45

End at: 2019-01-25 12:42:15

Local clock offset: 5.147 ms

Remote clock offset: 46.826 ms

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

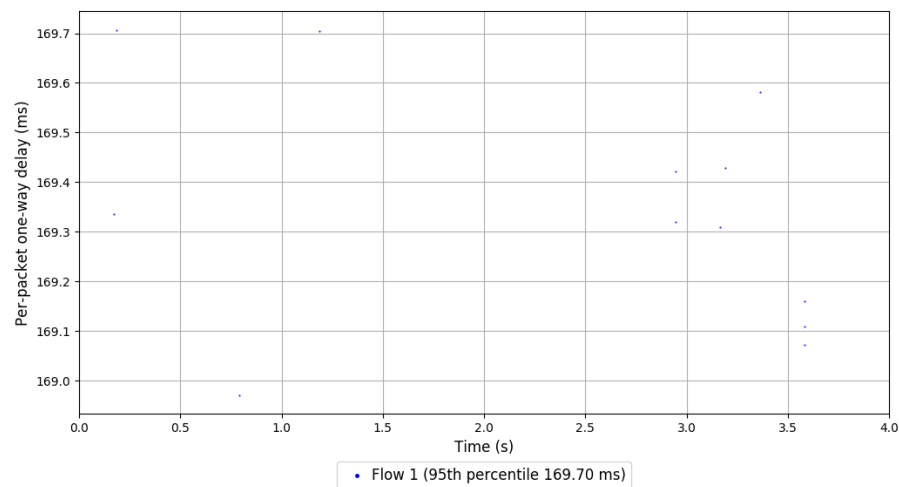
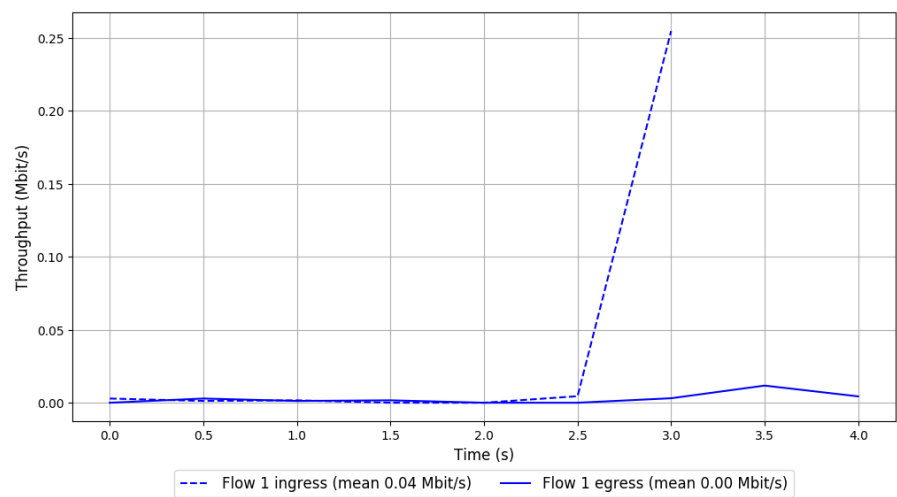
Start at: 2019-01-25 14:18:39

End at: 2019-01-25 14:19:09

Local clock offset: 13.424 ms

Remote clock offset: 49.429 ms

Run 3: Report of WebRTC media — Data Link

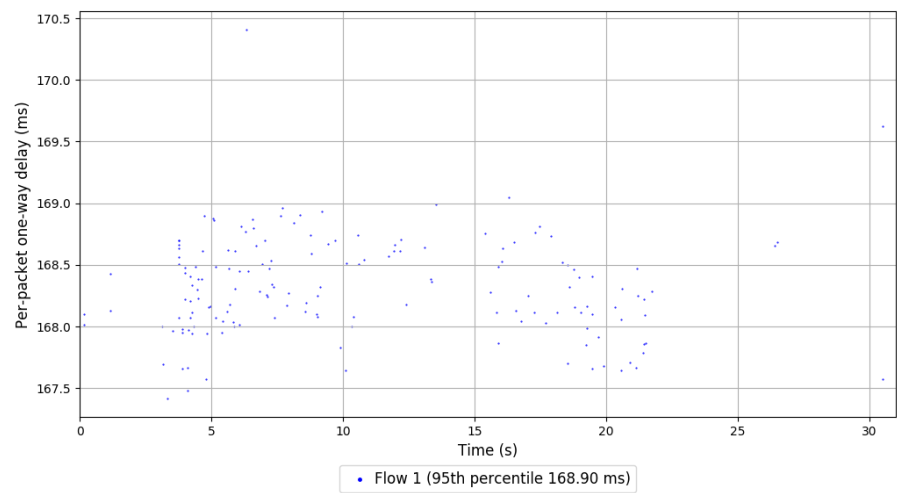
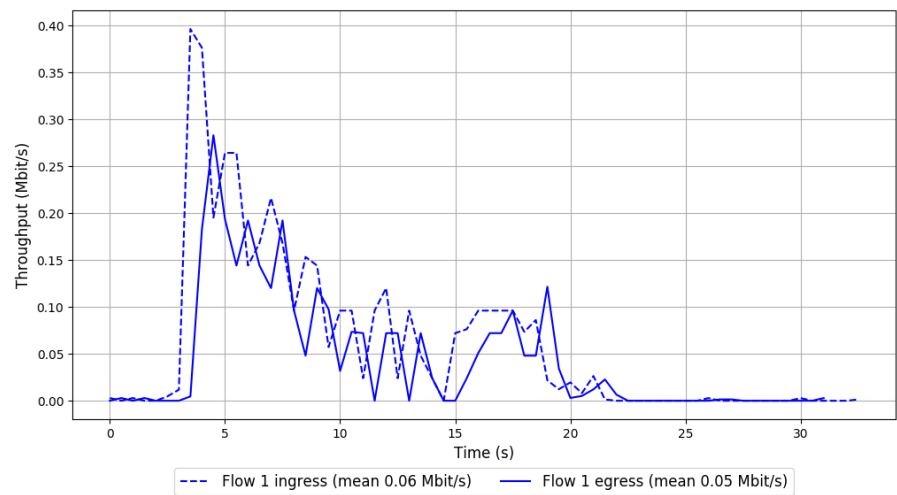


Run 4: Statistics of WebRTC media

Start at: 2019-01-25 15:43:24
End at: 2019-01-25 15:43:54
Local clock offset: 3.156 ms
Remote clock offset: 47.039 ms

Below is generated by plot.py at 2019-01-25 17:26:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 168.897 ms
Loss rate: 29.79%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 168.897 ms
Loss rate: 29.79%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-01-25 16:58:31

End at: 2019-01-25 16:59:01

Local clock offset: 11.407 ms

Remote clock offset: 47.117 ms

Run 5: Report of WebRTC media — Data Link

