

Pantheon Report

Generated at 2019-01-19 09:50:50 (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:

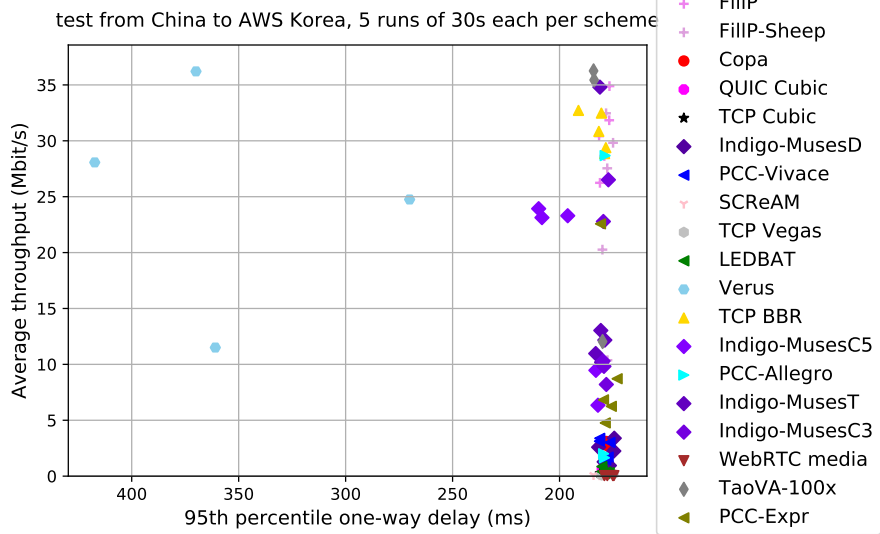
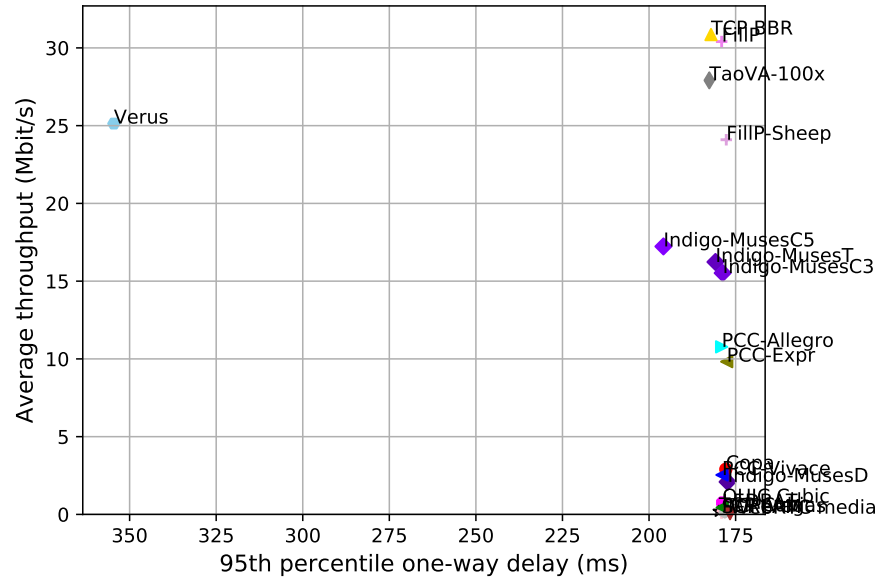
```
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ c80a283586bf7b0cc1fe08c69c8f60d56498f81c
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ c3eee875824760ec5b2fd207fefe166e1afe2170
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from China to AWS Korea, 5 runs of 30s each per scheme
(mean of all runs by scheme)



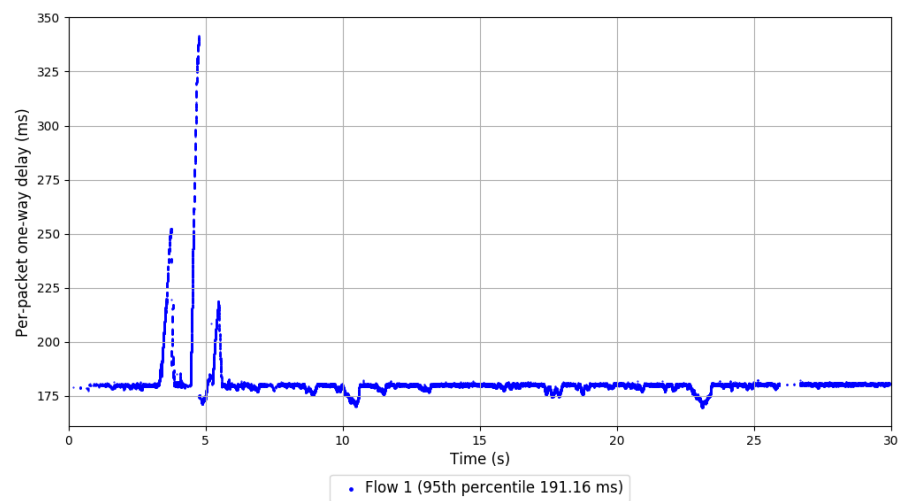
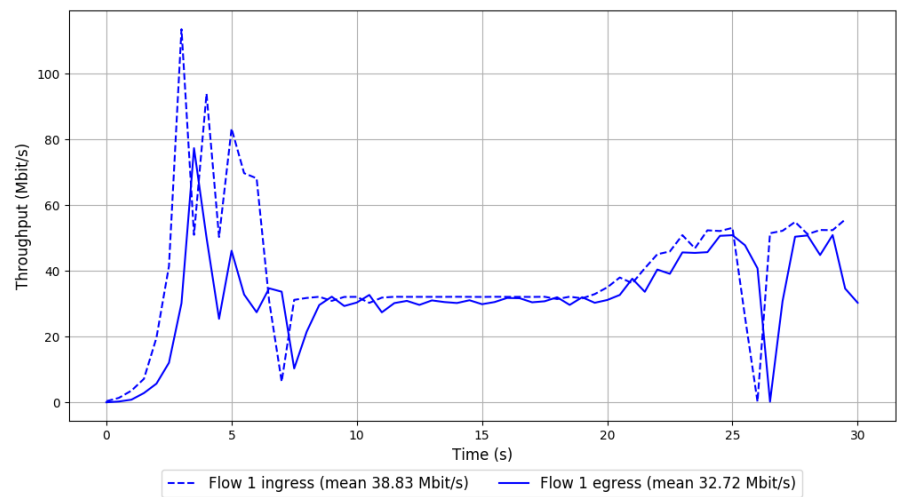
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	30.86	182.11	14.99
Copa	2	2.90	177.83	6.69
TCP Cubic	3	0.20	179.84	9.07
FillP	5	30.41	179.03	14.53
FillP-Sheep	5	24.09	177.70	9.85
Indigo	0	N/A	N/A	N/A
Indigo-MusesC3	5	15.52	178.74	8.74
Indigo-MusesC5	5	17.23	195.85	9.78
Indigo-MusesD	5	2.09	177.32	5.45
Indigo-MusesT	5	16.23	180.82	8.11
LEDBAT	5	0.45	178.87	5.81
PCC-Allegro	3	10.77	179.03	11.18
PCC-Expr	5	9.83	177.57	6.13
QUIC Cubic	5	0.76	178.84	5.73
SCReAM	5	0.09	179.05	5.78
Sprout	0	N/A	N/A	N/A
TaoVA-100x	3	27.91	182.60	8.80
TCP Vegas	5	0.16	178.13	11.36
Verus	4	25.13	354.56	38.24
PCC-Vivace	5	2.54	178.94	6.03
WebRTC media	4	0.05	176.61	7.81

Run 1: Statistics of TCP BBR

Start at: 2019-01-19 05:53:30
End at: 2019-01-19 05:54:00
Local clock offset: -3.59 ms
Remote clock offset: 30.202 ms

Below is generated by plot.py at 2019-01-19 09:48:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 32.72 Mbit/s
95th percentile per-packet one-way delay: 191.158 ms
Loss rate: 16.37%
-- Flow 1:
Average throughput: 32.72 Mbit/s
95th percentile per-packet one-way delay: 191.158 ms
Loss rate: 16.37%

Run 1: Report of TCP BBR — Data Link

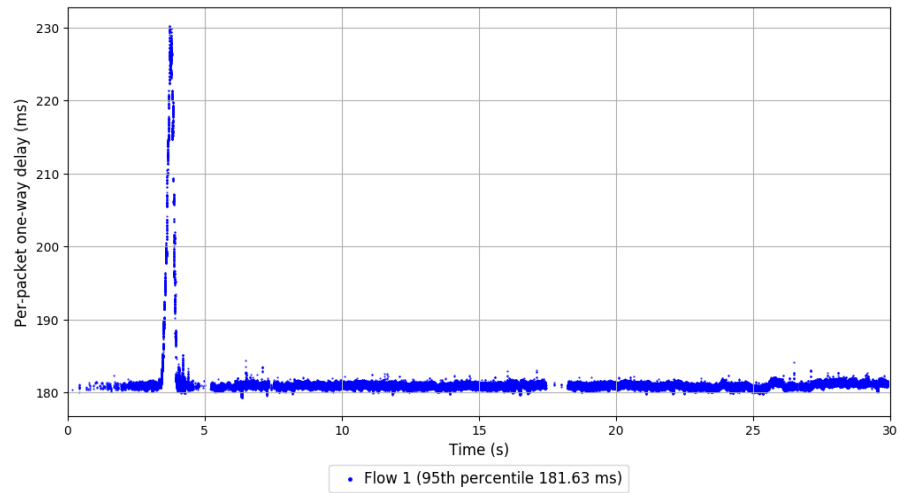
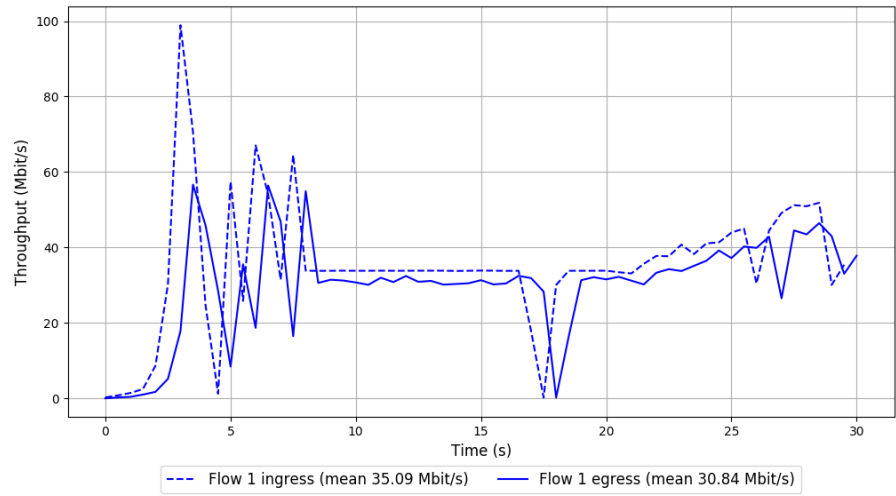


Run 2: Statistics of TCP BBR

Start at: 2019-01-19 06:45:54
End at: 2019-01-19 06:46:24
Local clock offset: -10.339 ms
Remote clock offset: 49.311 ms

Below is generated by plot.py at 2019-01-19 09:48:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 30.84 Mbit/s
95th percentile per-packet one-way delay: 181.633 ms
Loss rate: 12.82%
-- Flow 1:
Average throughput: 30.84 Mbit/s
95th percentile per-packet one-way delay: 181.633 ms
Loss rate: 12.82%

Run 2: Report of TCP BBR — Data Link

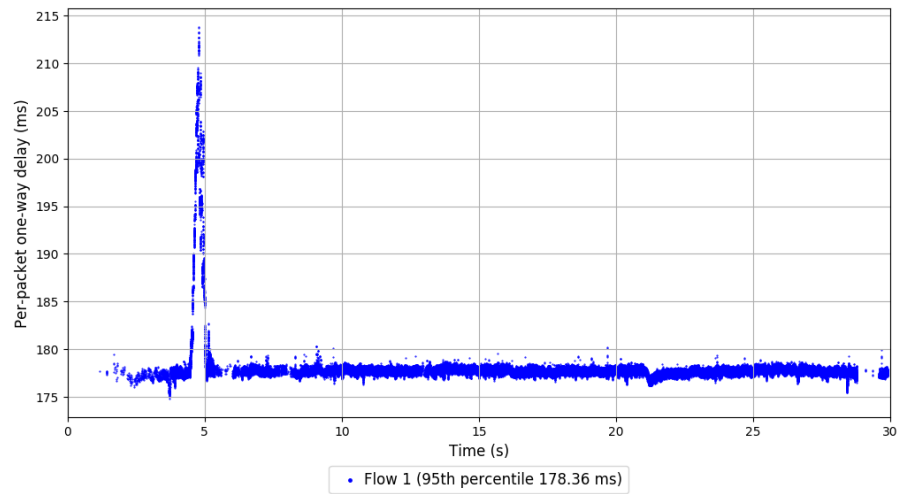
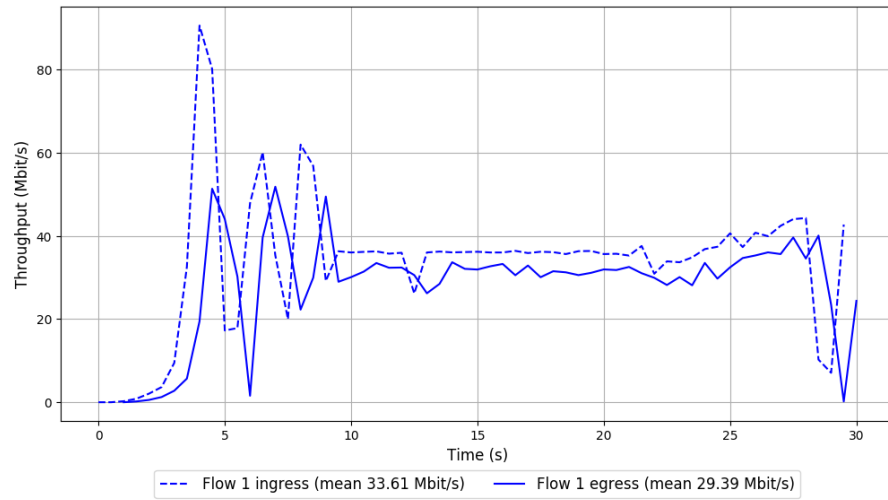


Run 3: Statistics of TCP BBR

Start at: 2019-01-19 07:36:41
End at: 2019-01-19 07:37:11
Local clock offset: 1.276 ms
Remote clock offset: 48.482 ms

Below is generated by plot.py at 2019-01-19 09:48:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 29.39 Mbit/s
95th percentile per-packet one-way delay: 178.359 ms
Loss rate: 16.19%
-- Flow 1:
Average throughput: 29.39 Mbit/s
95th percentile per-packet one-way delay: 178.359 ms
Loss rate: 16.19%

Run 3: Report of TCP BBR — Data Link

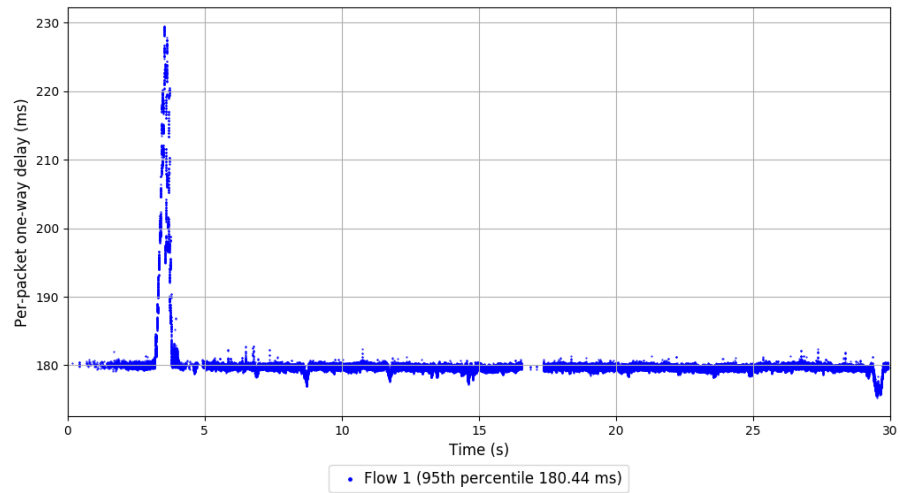
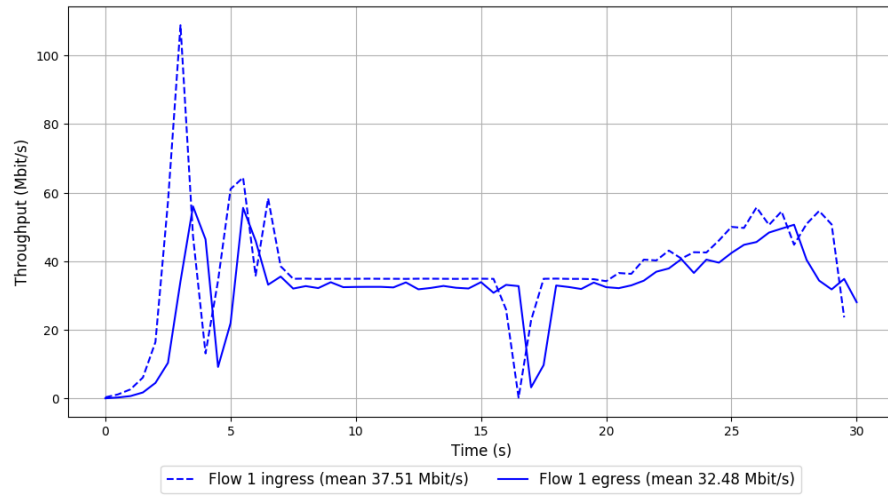


Run 4: Statistics of TCP BBR

Start at: 2019-01-19 08:32:03
End at: 2019-01-19 08:32:33
Local clock offset: -1.203 ms
Remote clock offset: 44.222 ms

Below is generated by plot.py at 2019-01-19 09:48:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 32.48 Mbit/s
95th percentile per-packet one-way delay: 180.442 ms
Loss rate: 14.10%
-- Flow 1:
Average throughput: 32.48 Mbit/s
95th percentile per-packet one-way delay: 180.442 ms
Loss rate: 14.10%

Run 4: Report of TCP BBR — Data Link

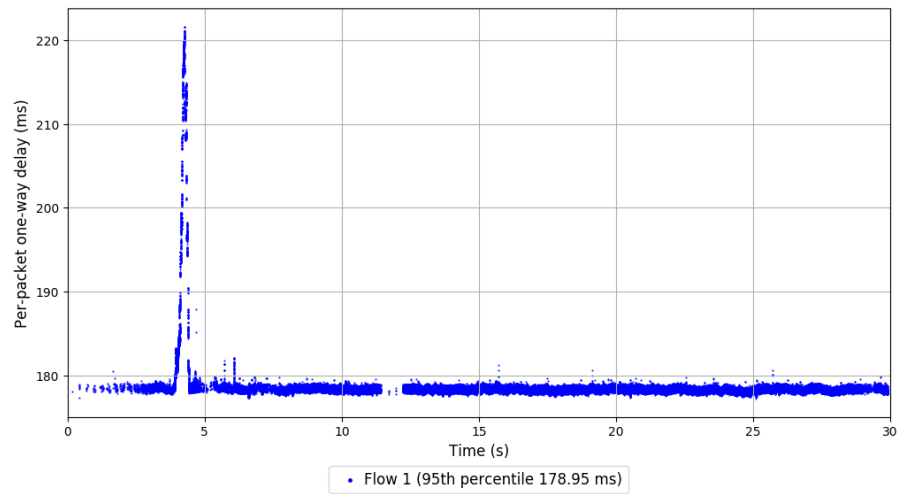
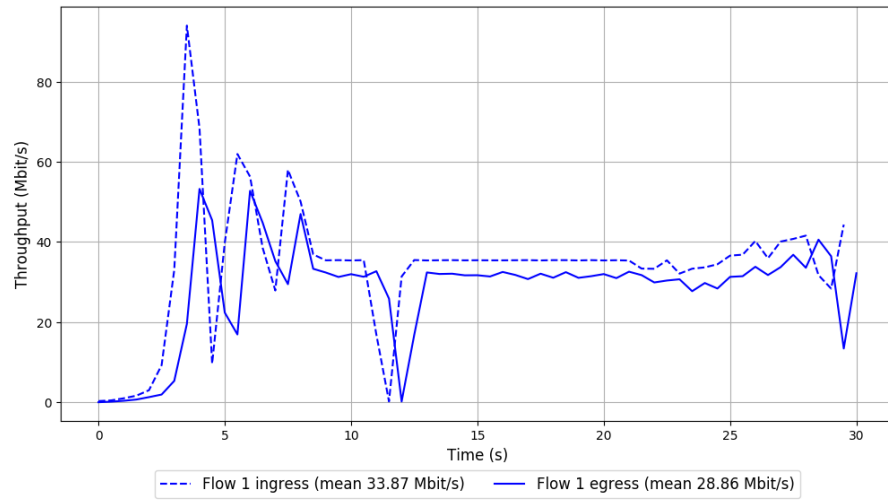


Run 5: Statistics of TCP BBR

Start at: 2019-01-19 09:33:55
End at: 2019-01-19 09:34:25
Local clock offset: -7.138 ms
Remote clock offset: 43.205 ms

Below is generated by plot.py at 2019-01-19 09:48:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 28.86 Mbit/s
95th percentile per-packet one-way delay: 178.951 ms
Loss rate: 15.49%
-- Flow 1:
Average throughput: 28.86 Mbit/s
95th percentile per-packet one-way delay: 178.951 ms
Loss rate: 15.49%

Run 5: Report of TCP BBR — Data Link

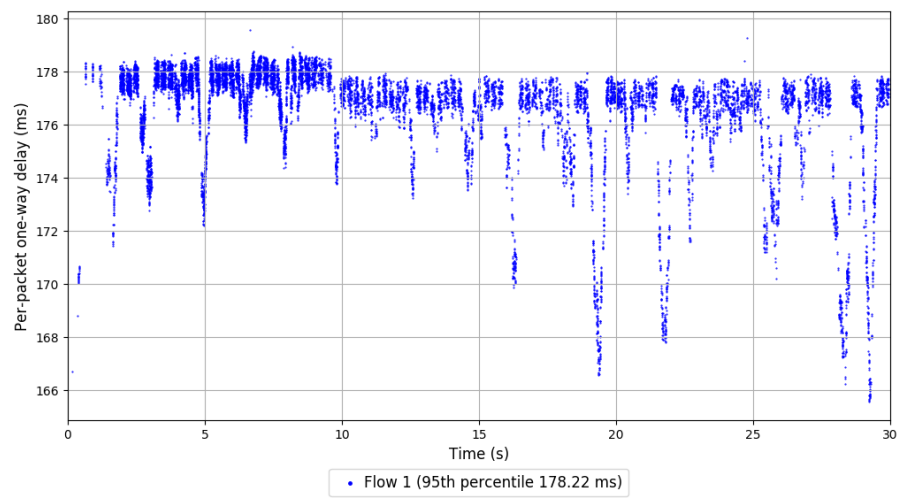
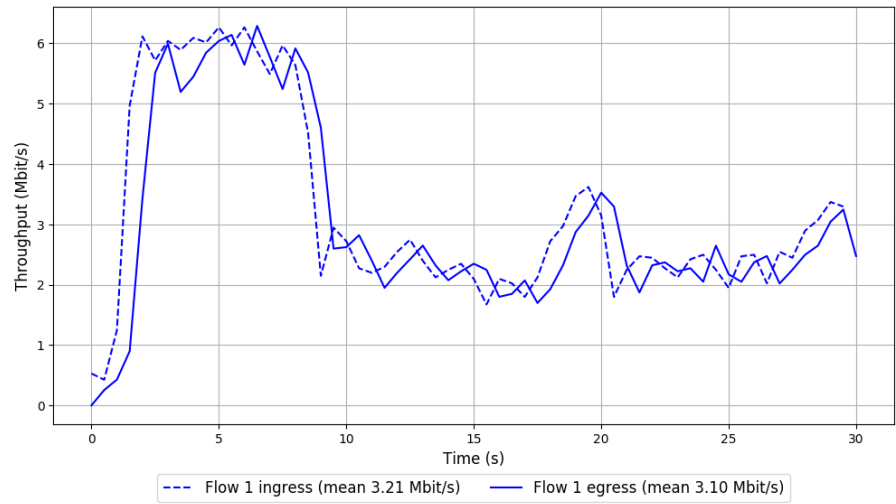


Run 1: Statistics of Copa

Start at: 2019-01-19 05:26:26
End at: 2019-01-19 05:26:56
Local clock offset: 3.951 ms
Remote clock offset: 26.247 ms

Below is generated by plot.py at 2019-01-19 09:48:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.10 Mbit/s
95th percentile per-packet one-way delay: 178.218 ms
Loss rate: 4.13%
-- Flow 1:
Average throughput: 3.10 Mbit/s
95th percentile per-packet one-way delay: 178.218 ms
Loss rate: 4.13%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

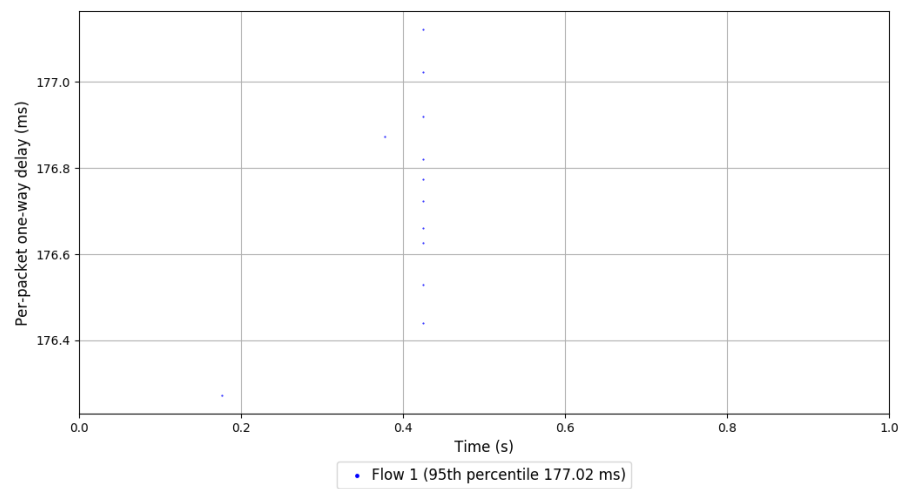
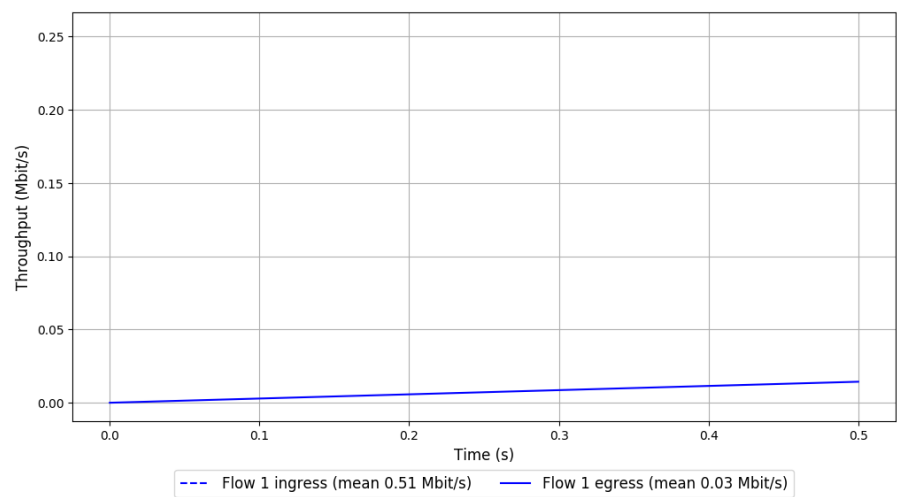
Start at: 2019-01-19 06:12:01

End at: 2019-01-19 06:12:31

Local clock offset: -13.502 ms

Remote clock offset: 44.528 ms

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

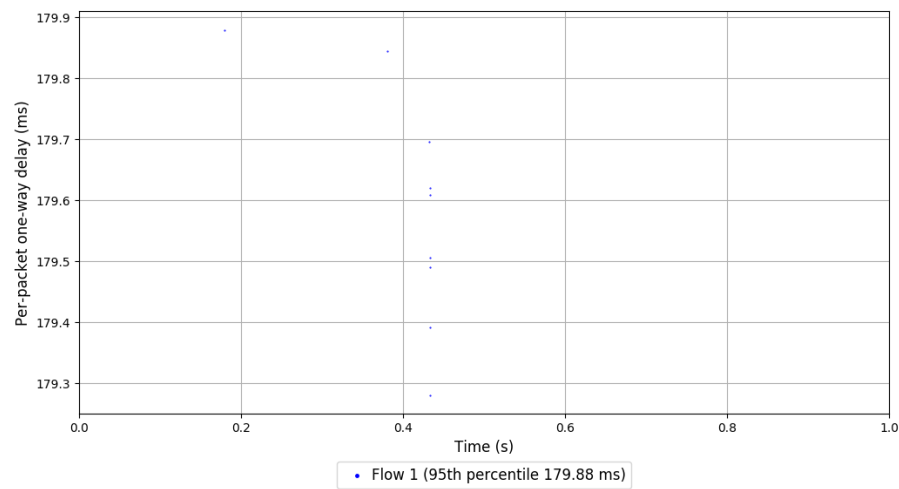
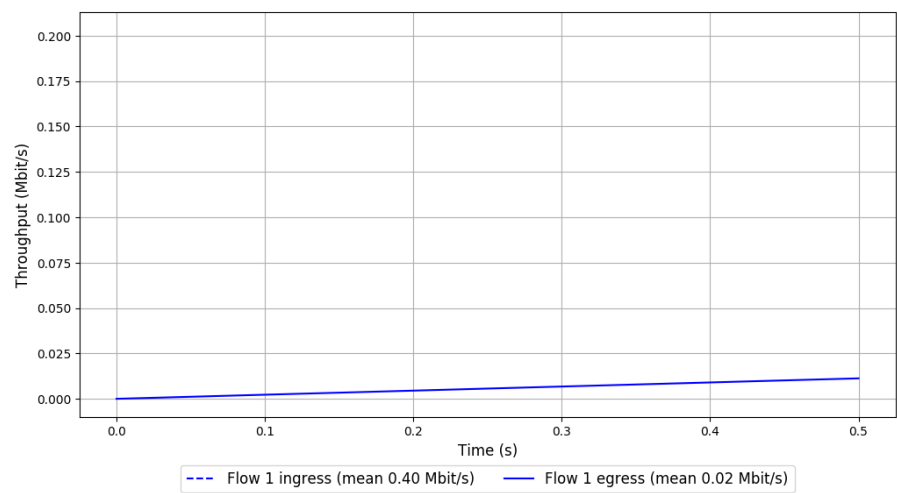
Start at: 2019-01-19 07:07:17

End at: 2019-01-19 07:07:47

Local clock offset: 4.696 ms

Remote clock offset: 52.815 ms

Run 3: Report of Copa — Data Link

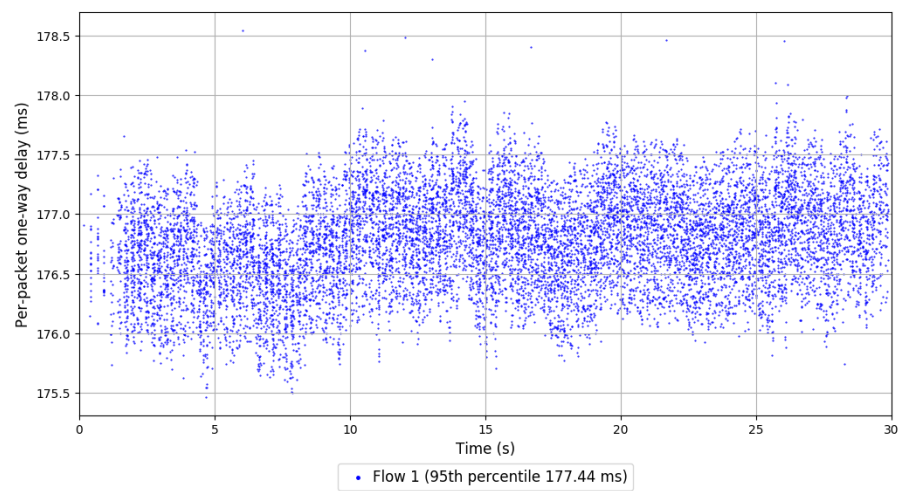
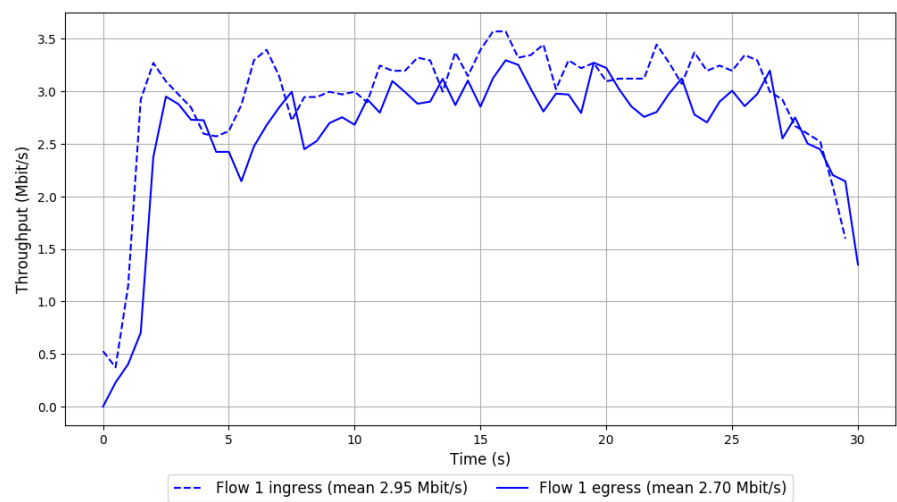


Run 4: Statistics of Copa

Start at: 2019-01-19 08:03:24
End at: 2019-01-19 08:03:54
Local clock offset: -7.55 ms
Remote clock offset: 50.665 ms

Below is generated by plot.py at 2019-01-19 09:48:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.70 Mbit/s
95th percentile per-packet one-way delay: 177.436 ms
Loss rate: 9.25%
-- Flow 1:
Average throughput: 2.70 Mbit/s
95th percentile per-packet one-way delay: 177.436 ms
Loss rate: 9.25%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

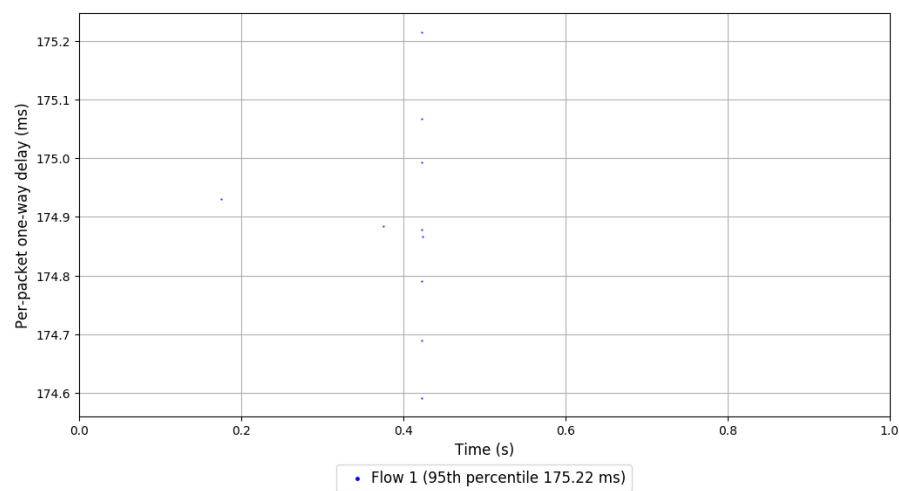
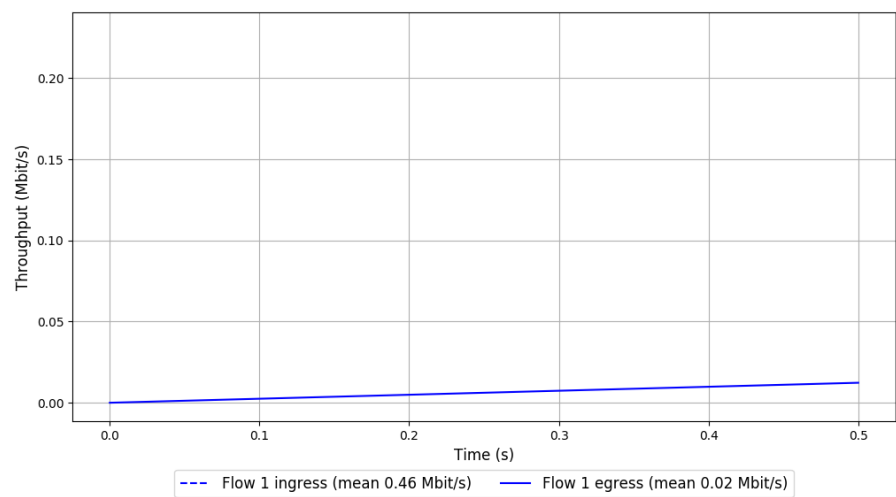
Start at: 2019-01-19 08:54:21

End at: 2019-01-19 08:54:51

Local clock offset: 1.091 ms

Remote clock offset: 48.247 ms

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

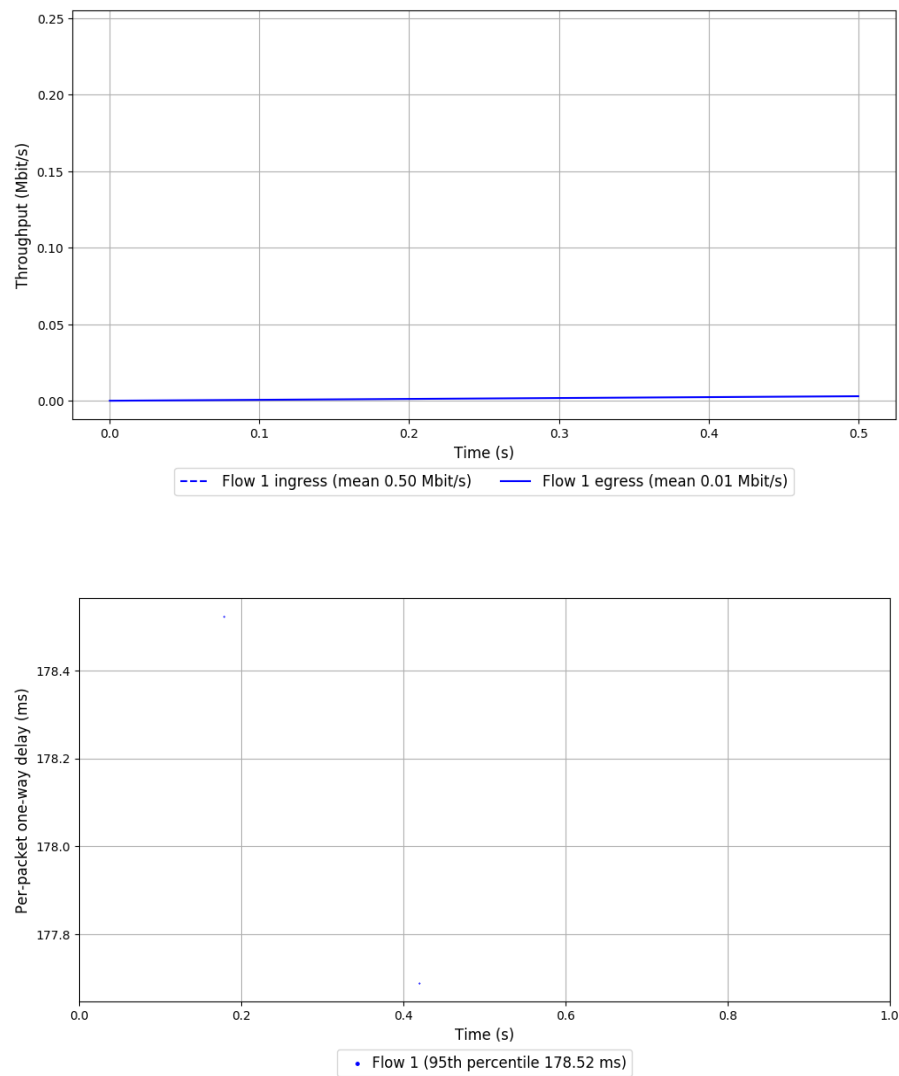
Start at: 2019-01-19 05:18:50

End at: 2019-01-19 05:19:20

Local clock offset: 2.097 ms

Remote clock offset: 25.126 ms

Run 1: Report of TCP Cubic — Data Link

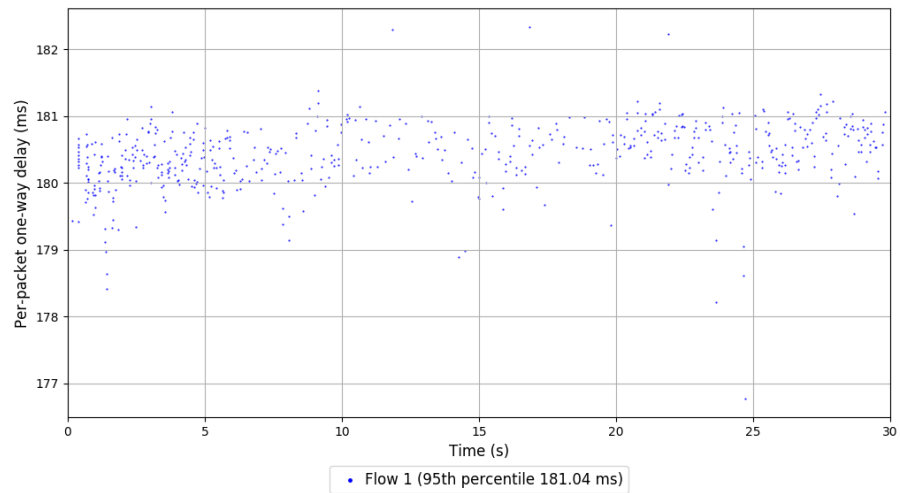
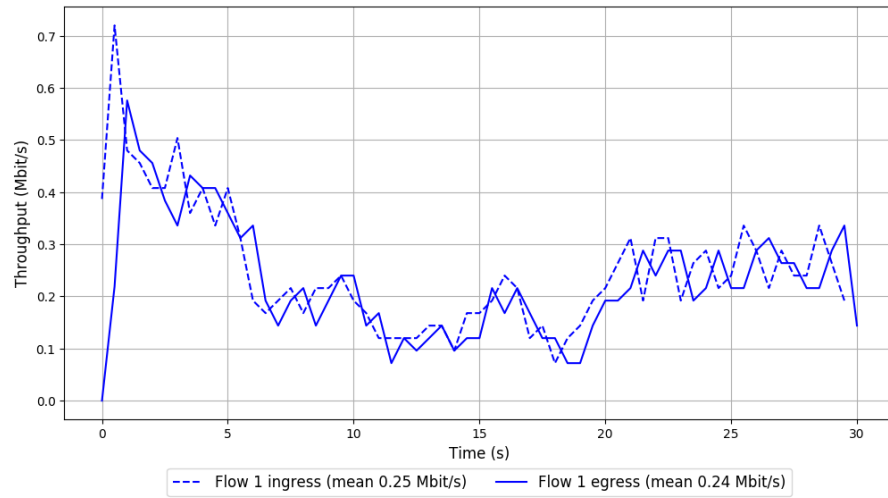


Run 2: Statistics of TCP Cubic

Start at: 2019-01-19 06:06:25
End at: 2019-01-19 06:06:55
Local clock offset: -11.786 ms
Remote clock offset: 37.515 ms

Below is generated by plot.py at 2019-01-19 09:48:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 181.038 ms
Loss rate: 7.20%
-- Flow 1:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 181.038 ms
Loss rate: 7.20%

Run 2: Report of TCP Cubic — Data Link

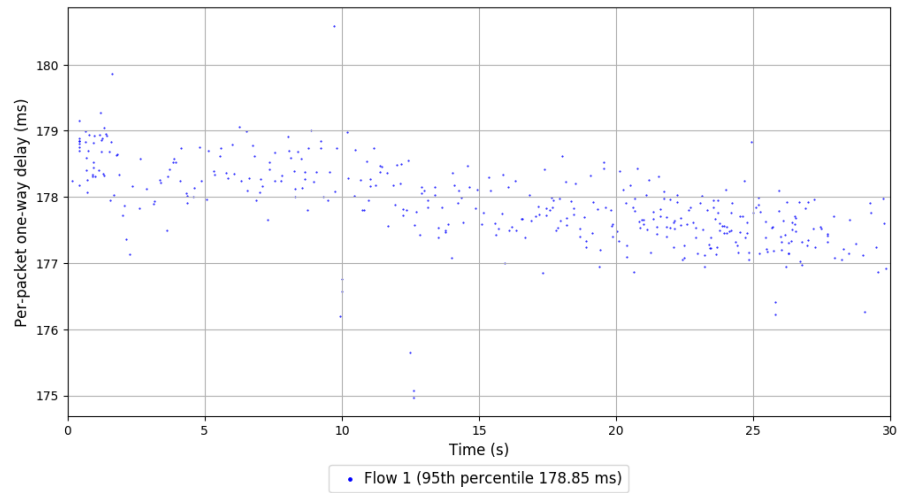
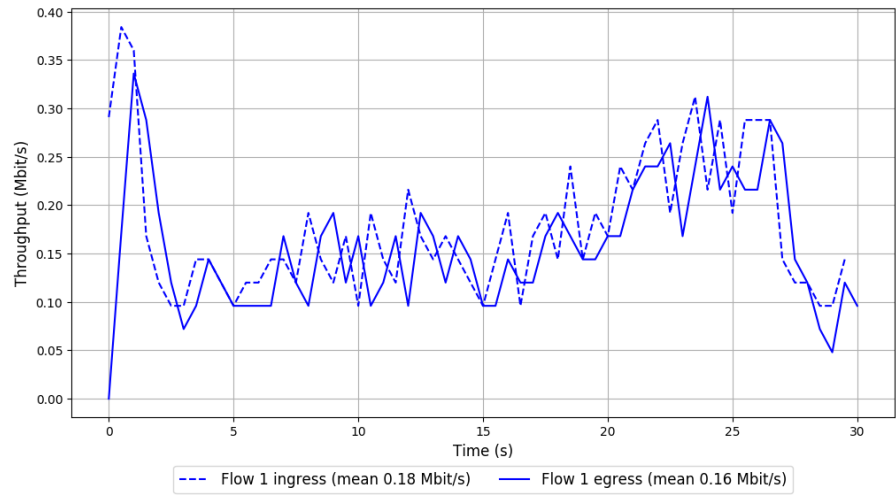


Run 3: Statistics of TCP Cubic

Start at: 2019-01-19 07:01:25
End at: 2019-01-19 07:01:55
Local clock offset: 2.747 ms
Remote clock offset: 53.587 ms

Below is generated by plot.py at 2019-01-19 09:48:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 178.847 ms
Loss rate: 9.03%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 178.847 ms
Loss rate: 9.03%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

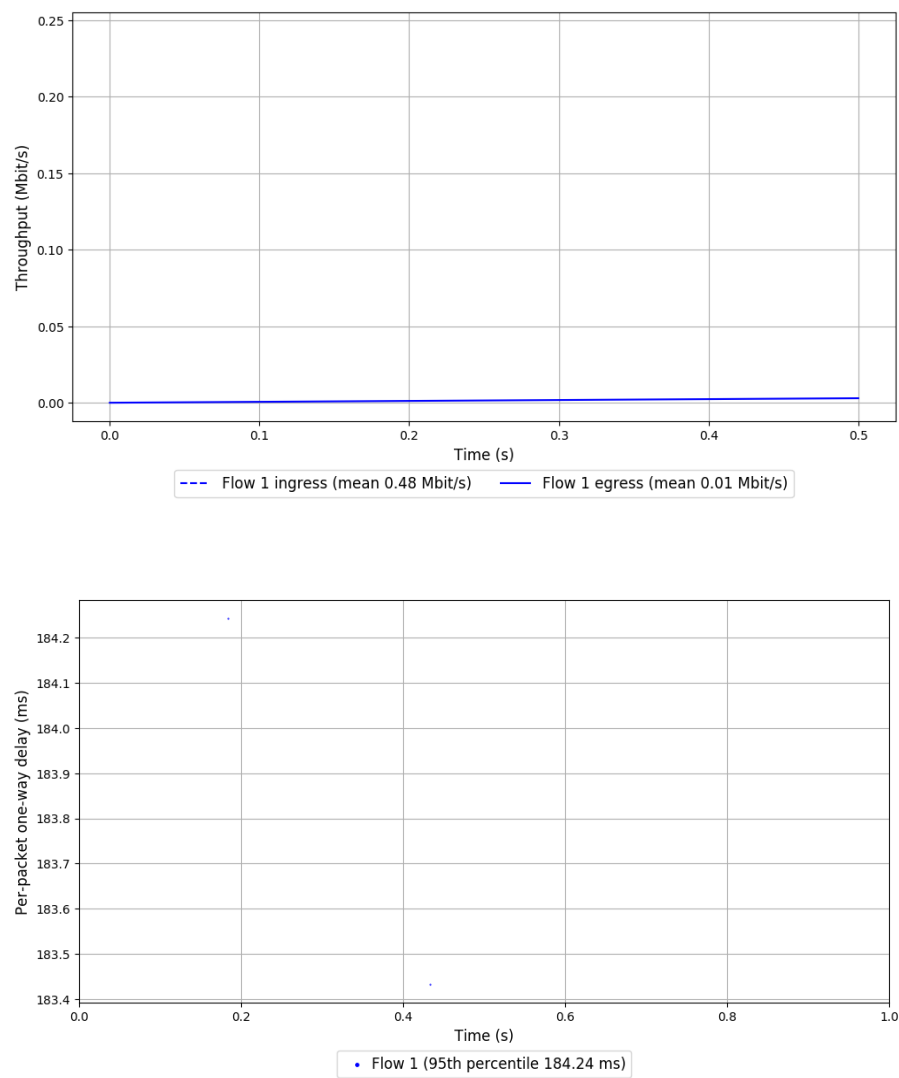
Start at: 2019-01-19 07:56:20

End at: 2019-01-19 07:56:50

Local clock offset: -5.316 ms

Remote clock offset: 44.004 ms

Run 4: Report of TCP Cubic — Data Link

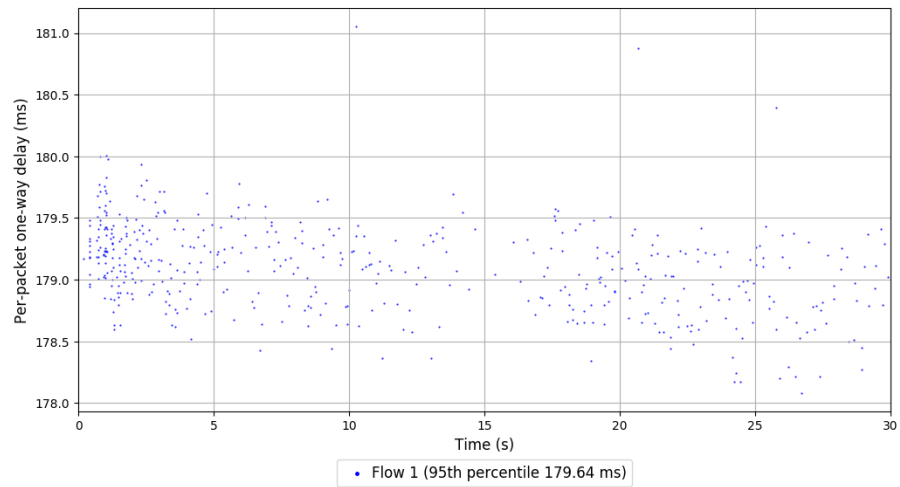
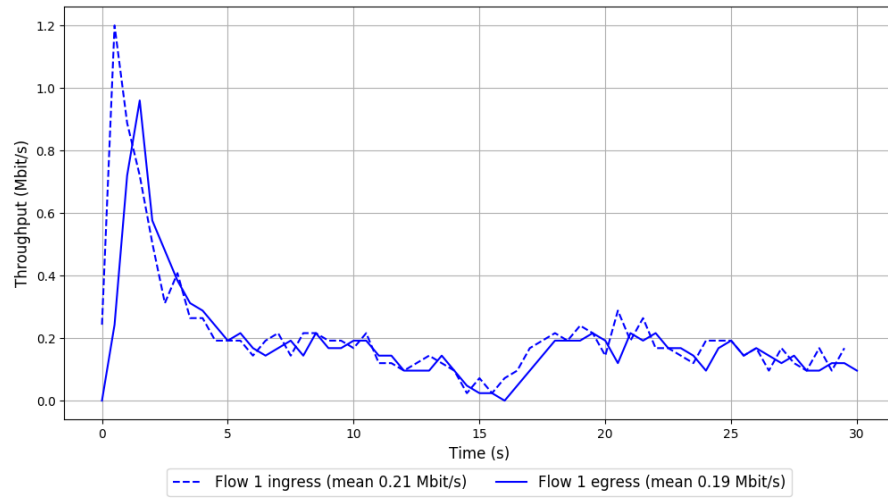


Run 5: Statistics of TCP Cubic

Start at: 2019-01-19 08:47:46
End at: 2019-01-19 08:48:16
Local clock offset: 1.002 ms
Remote clock offset: 44.585 ms

Below is generated by plot.py at 2019-01-19 09:48:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 179.638 ms
Loss rate: 10.98%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 179.638 ms
Loss rate: 10.98%

Run 5: Report of TCP Cubic — Data Link

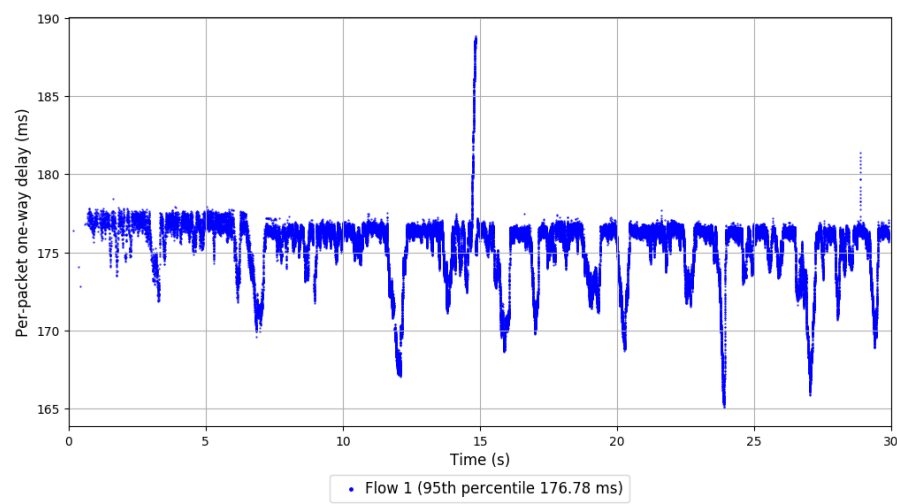
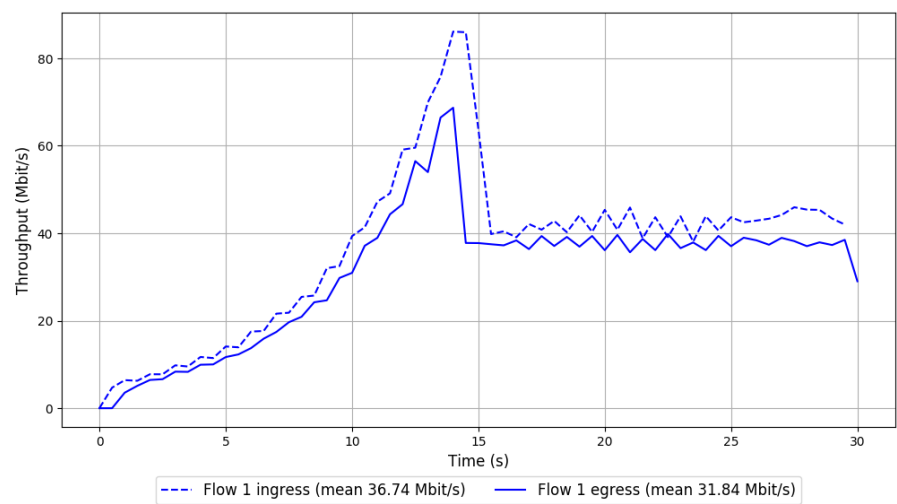


Run 1: Statistics of FillP

Start at: 2019-01-19 05:40:07
End at: 2019-01-19 05:40:37
Local clock offset: 5.692 ms
Remote clock offset: 31.183 ms

Below is generated by plot.py at 2019-01-19 09:48:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 31.84 Mbit/s
95th percentile per-packet one-way delay: 176.781 ms
Loss rate: 14.04%
-- Flow 1:
Average throughput: 31.84 Mbit/s
95th percentile per-packet one-way delay: 176.781 ms
Loss rate: 14.04%

Run 1: Report of FillP — Data Link

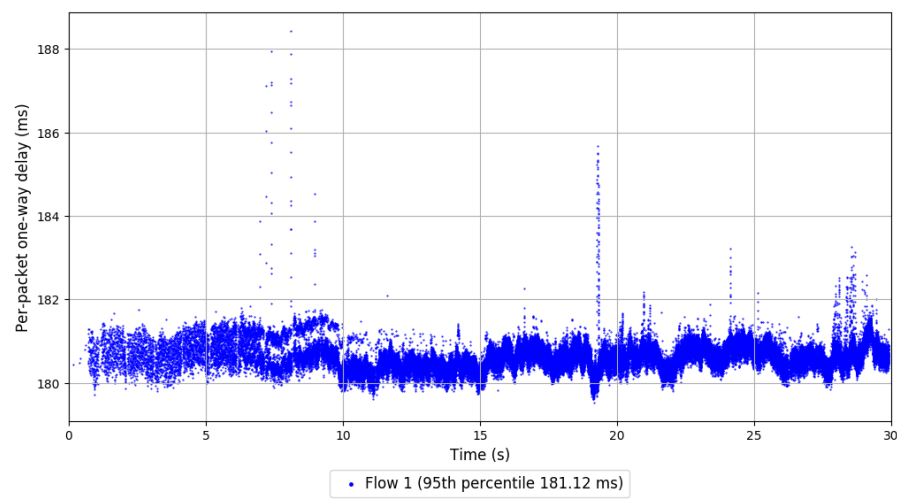
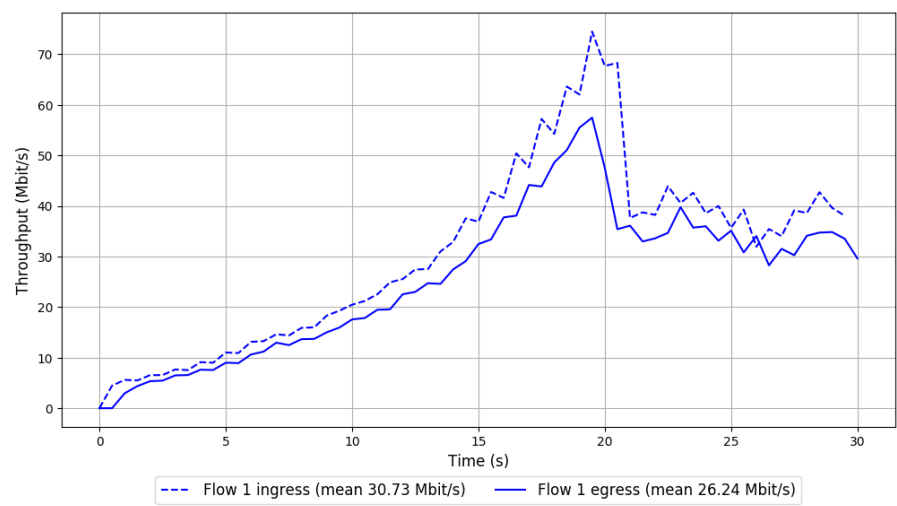


Run 2: Statistics of FillP

Start at: 2019-01-19 06:27:41
End at: 2019-01-19 06:28:11
Local clock offset: -10.769 ms
Remote clock offset: 49.165 ms

Below is generated by plot.py at 2019-01-19 09:48:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 26.24 Mbit/s
95th percentile per-packet one-way delay: 181.115 ms
Loss rate: 15.30%
-- Flow 1:
Average throughput: 26.24 Mbit/s
95th percentile per-packet one-way delay: 181.115 ms
Loss rate: 15.30%

Run 2: Report of FillP — Data Link

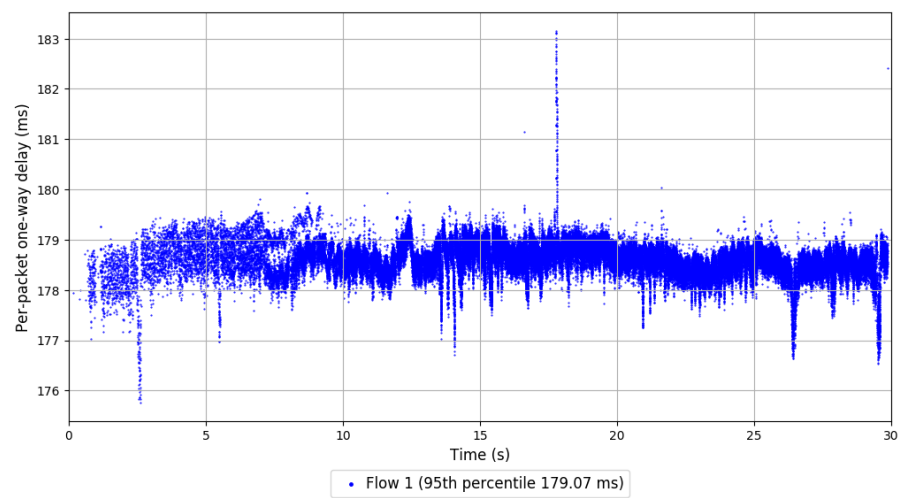
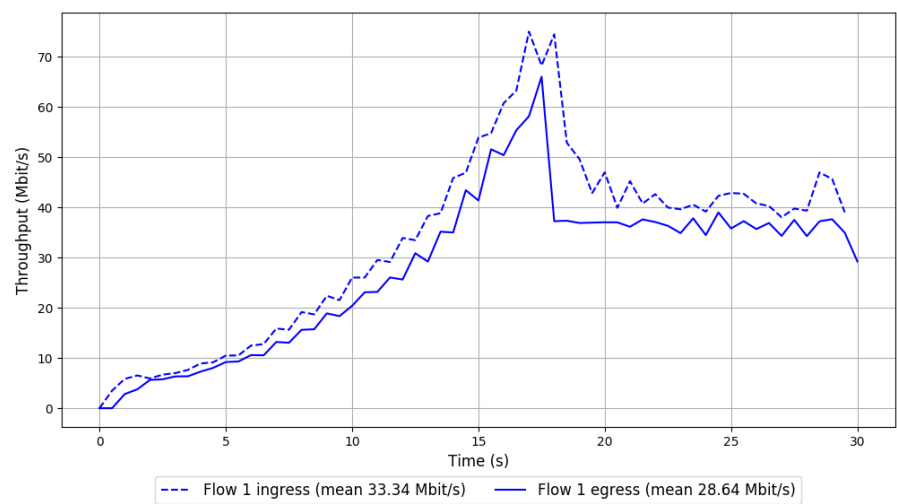


Run 3: Statistics of FillP

Start at: 2019-01-19 07:25:01
End at: 2019-01-19 07:25:31
Local clock offset: 2.697 ms
Remote clock offset: 46.752 ms

Below is generated by plot.py at 2019-01-19 09:48:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 28.64 Mbit/s
95th percentile per-packet one-way delay: 179.067 ms
Loss rate: 14.77%
-- Flow 1:
Average throughput: 28.64 Mbit/s
95th percentile per-packet one-way delay: 179.067 ms
Loss rate: 14.77%

Run 3: Report of FillP — Data Link

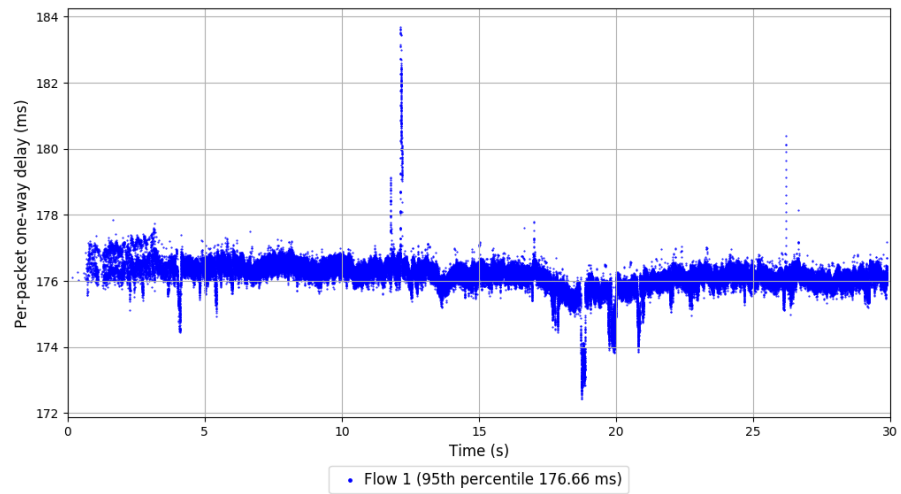
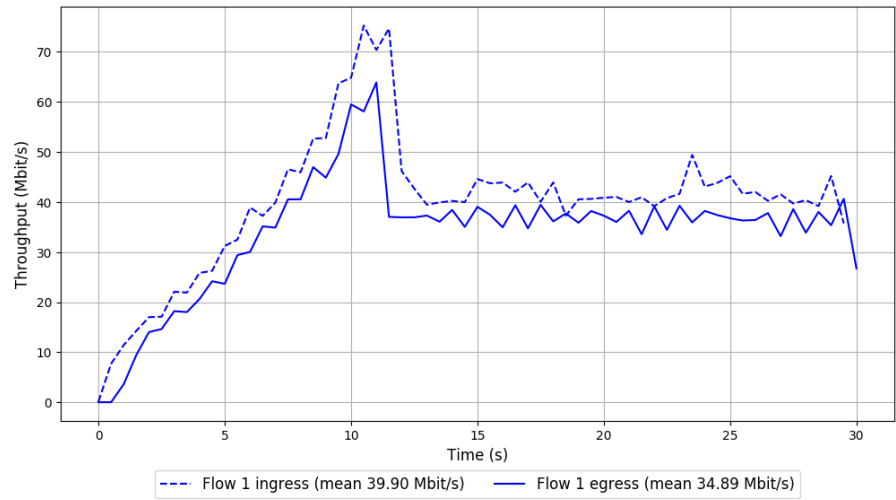


Run 4: Statistics of FillP

Start at: 2019-01-19 08:19:43
End at: 2019-01-19 08:20:13
Local clock offset: -7.034 ms
Remote clock offset: 49.515 ms

Below is generated by plot.py at 2019-01-19 09:49:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 34.89 Mbit/s
95th percentile per-packet one-way delay: 176.661 ms
Loss rate: 13.26%
-- Flow 1:
Average throughput: 34.89 Mbit/s
95th percentile per-packet one-way delay: 176.661 ms
Loss rate: 13.26%

Run 4: Report of FillP — Data Link

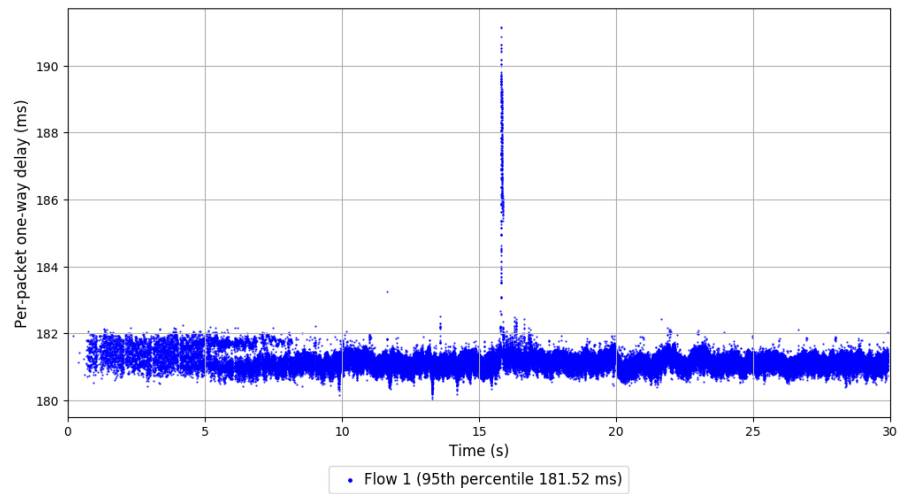
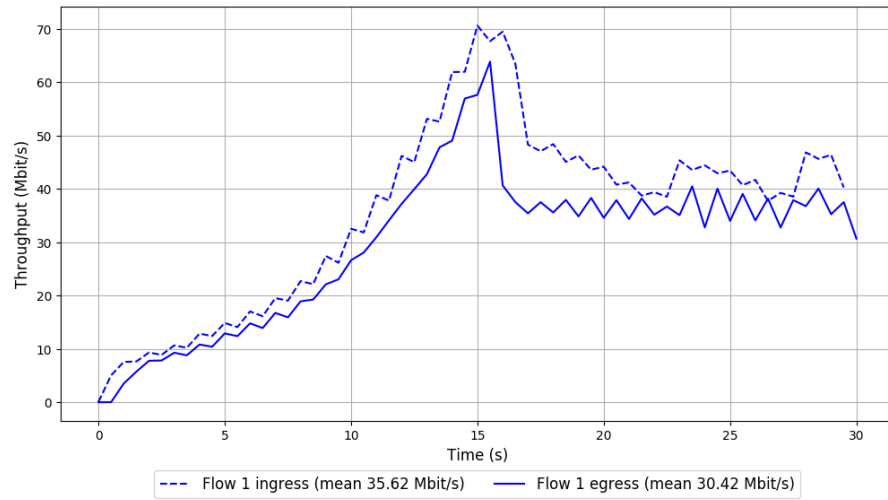


Run 5: Statistics of FillP

Start at: 2019-01-19 09:11:06
End at: 2019-01-19 09:11:36
Local clock offset: 1.755 ms
Remote clock offset: 45.022 ms

Below is generated by plot.py at 2019-01-19 09:49:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 30.42 Mbit/s
95th percentile per-packet one-way delay: 181.519 ms
Loss rate: 15.30%
-- Flow 1:
Average throughput: 30.42 Mbit/s
95th percentile per-packet one-way delay: 181.519 ms
Loss rate: 15.30%

Run 5: Report of FillP — Data Link

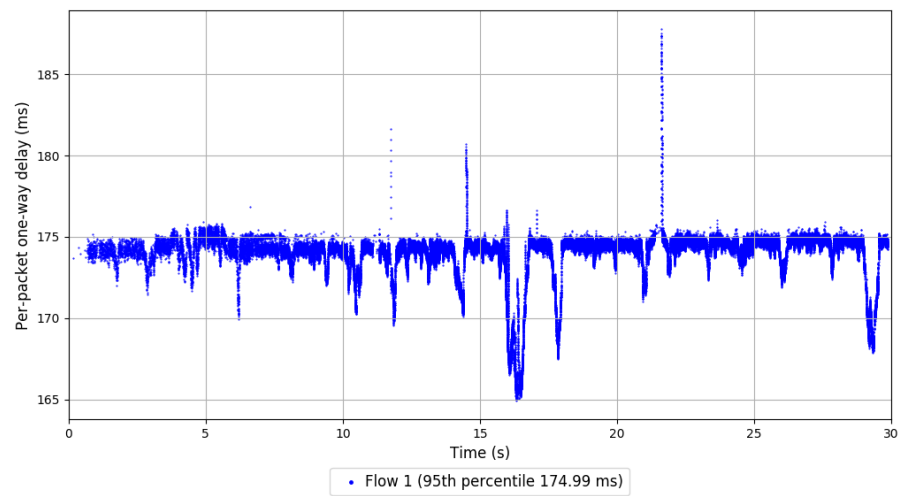
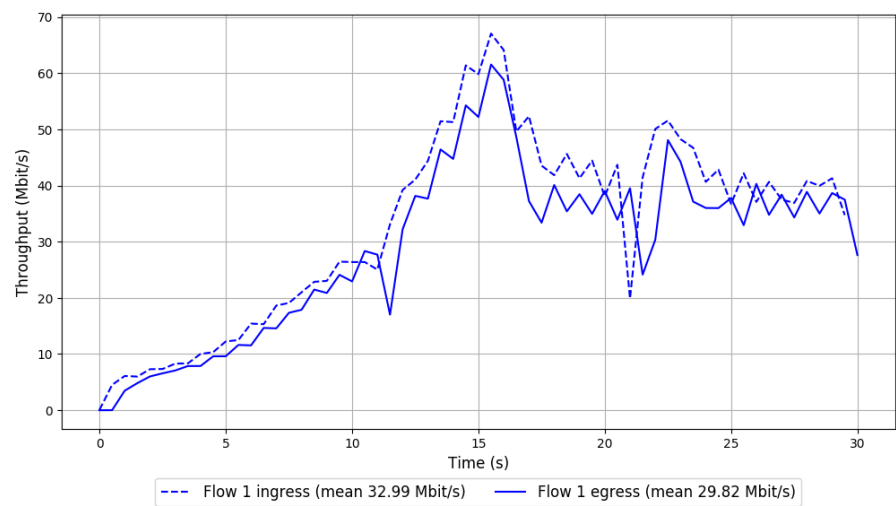


Run 1: Statistics of FillP-Sheep

Start at: 2019-01-19 05:48:49
End at: 2019-01-19 05:49:19
Local clock offset: 3.012 ms
Remote clock offset: 36.108 ms

Below is generated by plot.py at 2019-01-19 09:49:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 29.82 Mbit/s
95th percentile per-packet one-way delay: 174.985 ms
Loss rate: 10.31%
-- Flow 1:
Average throughput: 29.82 Mbit/s
95th percentile per-packet one-way delay: 174.985 ms
Loss rate: 10.31%

Run 1: Report of FillP-Sheep — Data Link

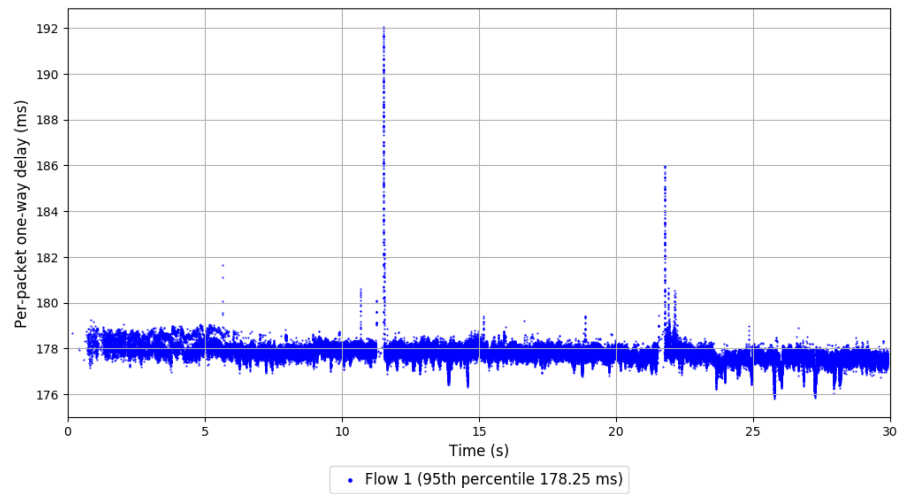
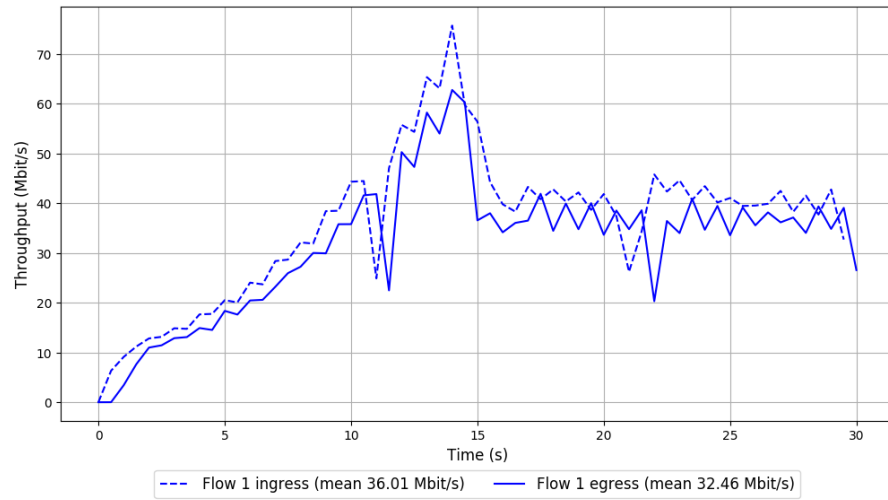


Run 2: Statistics of FillP-Sheep

Start at: 2019-01-19 06:40:31
End at: 2019-01-19 06:41:01
Local clock offset: -10.329 ms
Remote clock offset: 50.952 ms

Below is generated by plot.py at 2019-01-19 09:49:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 32.46 Mbit/s
95th percentile per-packet one-way delay: 178.245 ms
Loss rate: 10.56%
-- Flow 1:
Average throughput: 32.46 Mbit/s
95th percentile per-packet one-way delay: 178.245 ms
Loss rate: 10.56%

Run 2: Report of FillP-Sheep — Data Link

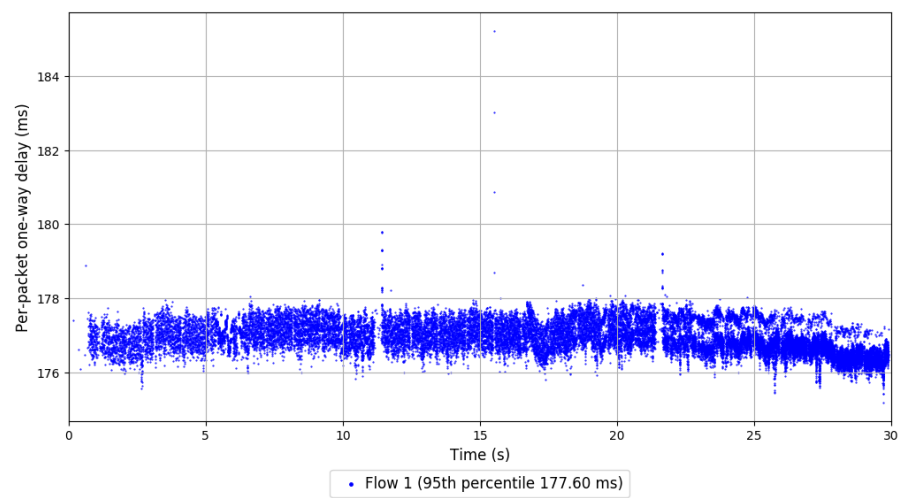
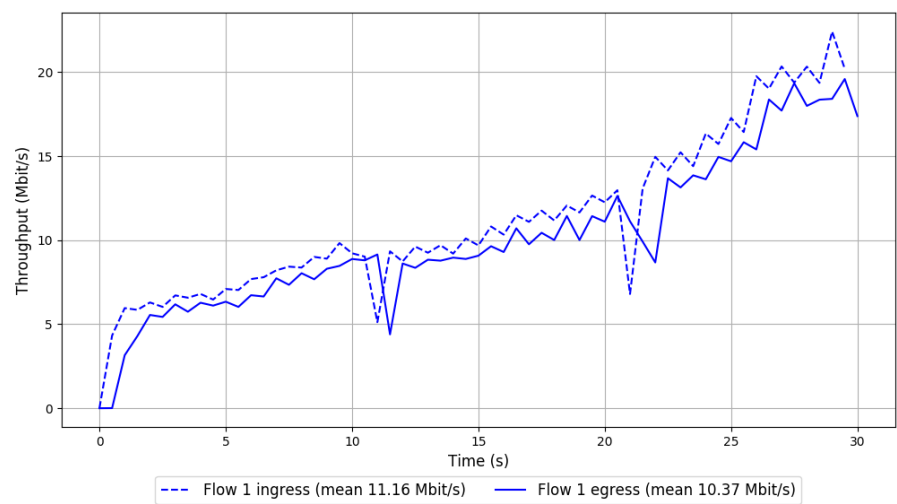


Run 3: Statistics of FillP-Sheep

Start at: 2019-01-19 07:33:39
End at: 2019-01-19 07:34:09
Local clock offset: 1.517 ms
Remote clock offset: 48.644 ms

Below is generated by plot.py at 2019-01-19 09:49:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 10.37 Mbit/s
95th percentile per-packet one-way delay: 177.596 ms
Loss rate: 7.84%
-- Flow 1:
Average throughput: 10.37 Mbit/s
95th percentile per-packet one-way delay: 177.596 ms
Loss rate: 7.84%

Run 3: Report of FillP-Sheep — Data Link

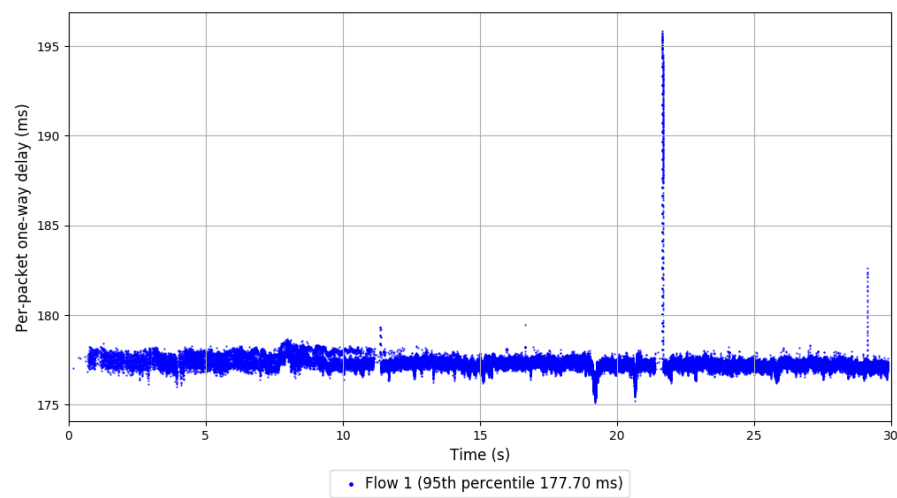
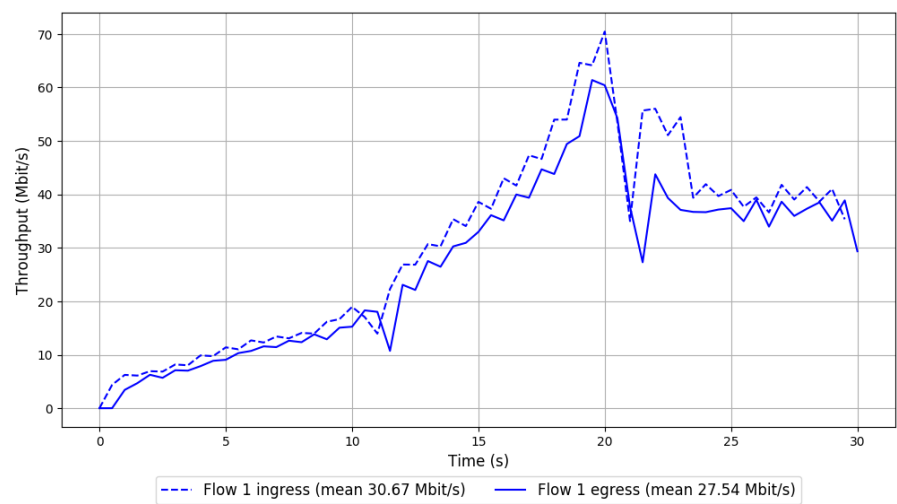


Run 4: Statistics of FillP-Sheep

Start at: 2019-01-19 08:27:14
End at: 2019-01-19 08:27:44
Local clock offset: -2.77 ms
Remote clock offset: 47.378 ms

Below is generated by plot.py at 2019-01-19 09:49:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 27.54 Mbit/s
95th percentile per-packet one-way delay: 177.701 ms
Loss rate: 10.93%
-- Flow 1:
Average throughput: 27.54 Mbit/s
95th percentile per-packet one-way delay: 177.701 ms
Loss rate: 10.93%

Run 4: Report of FillP-Sheep — Data Link

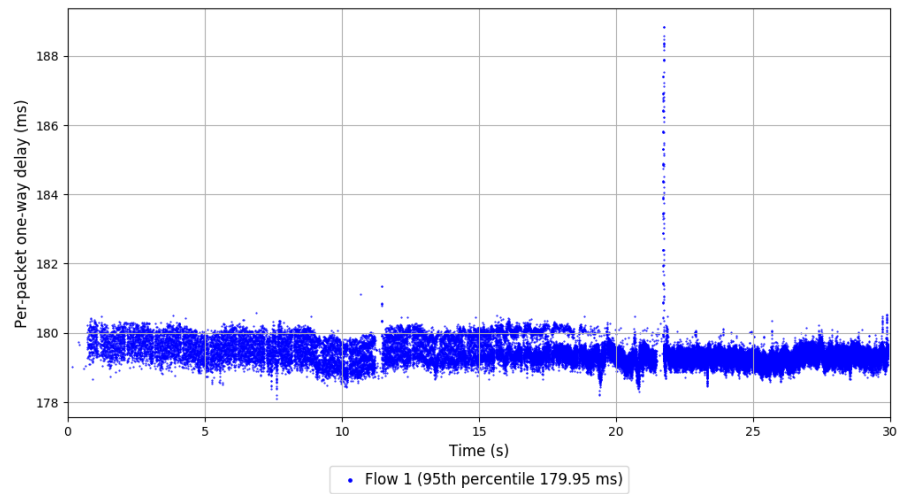
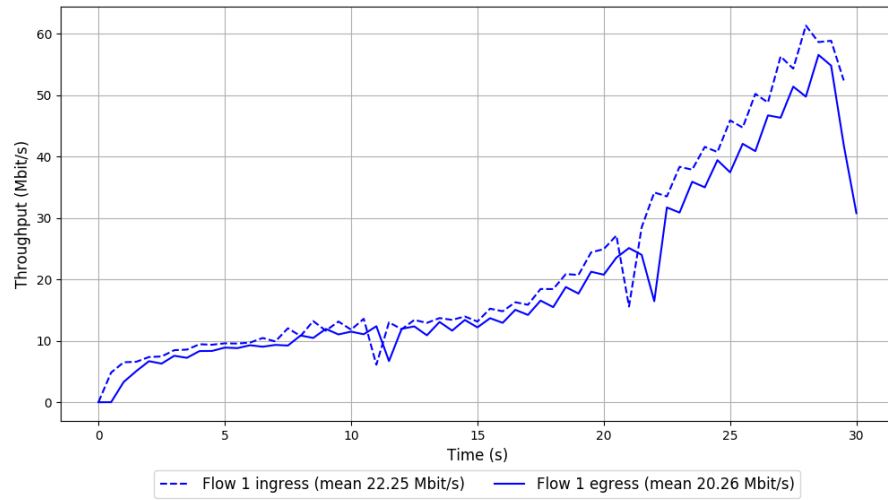


Run 5: Statistics of FillP-Sheep

Start at: 2019-01-19 09:29:28
End at: 2019-01-19 09:29:58
Local clock offset: -5.877 ms
Remote clock offset: 43.982 ms

Below is generated by plot.py at 2019-01-19 09:49:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.26 Mbit/s
95th percentile per-packet one-way delay: 179.954 ms
Loss rate: 9.63%
-- Flow 1:
Average throughput: 20.26 Mbit/s
95th percentile per-packet one-way delay: 179.954 ms
Loss rate: 9.63%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

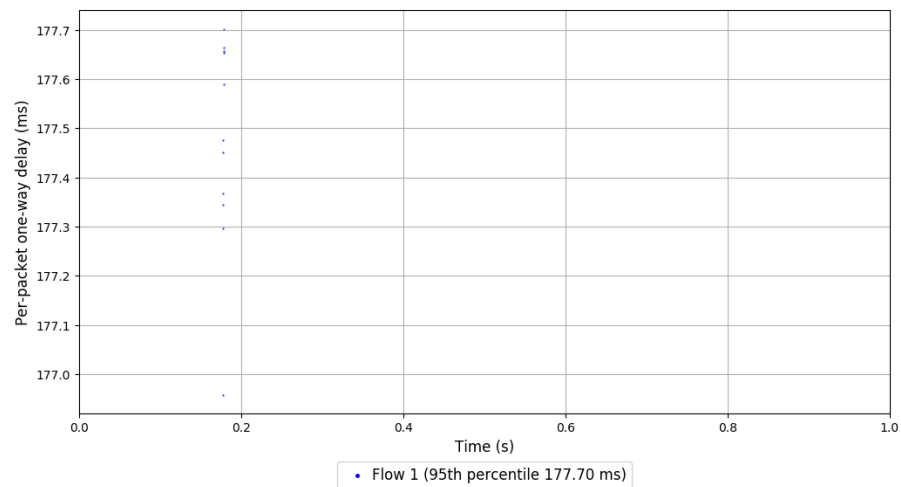
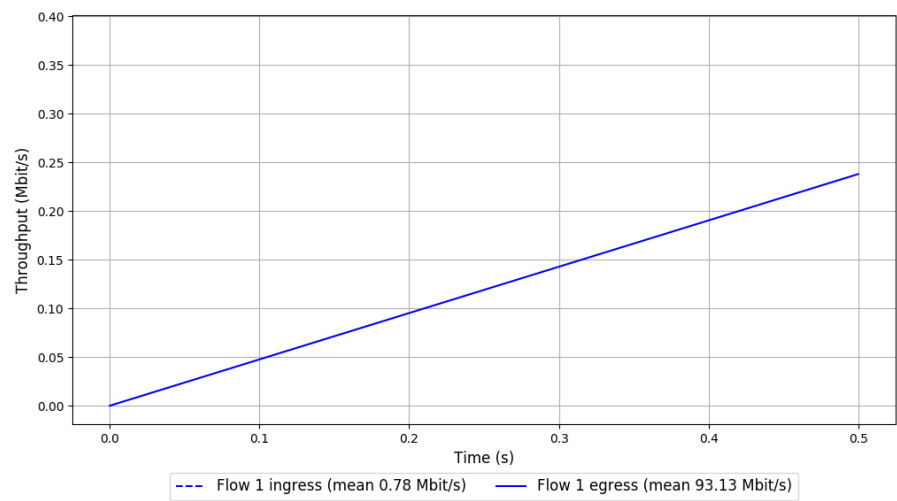
Start at: 2019-01-19 05:58:20

End at: 2019-01-19 05:58:50

Local clock offset: -7.841 ms

Remote clock offset: 31.625 ms

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

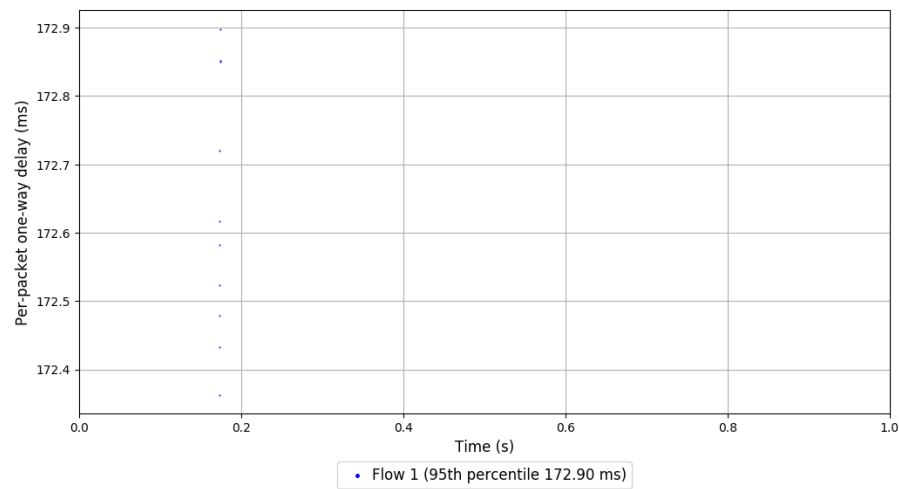
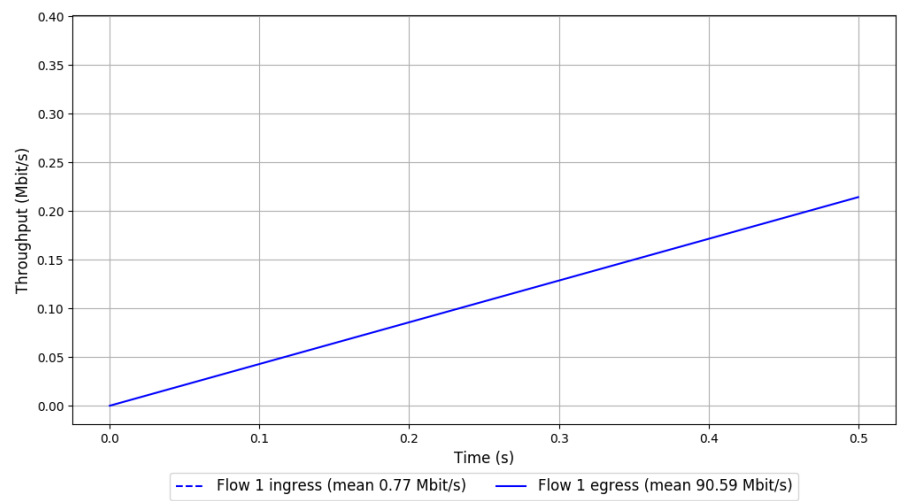
Start at: 2019-01-19 06:52:28

End at: 2019-01-19 06:52:58

Local clock offset: -3.242 ms

Remote clock offset: 56.628 ms

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

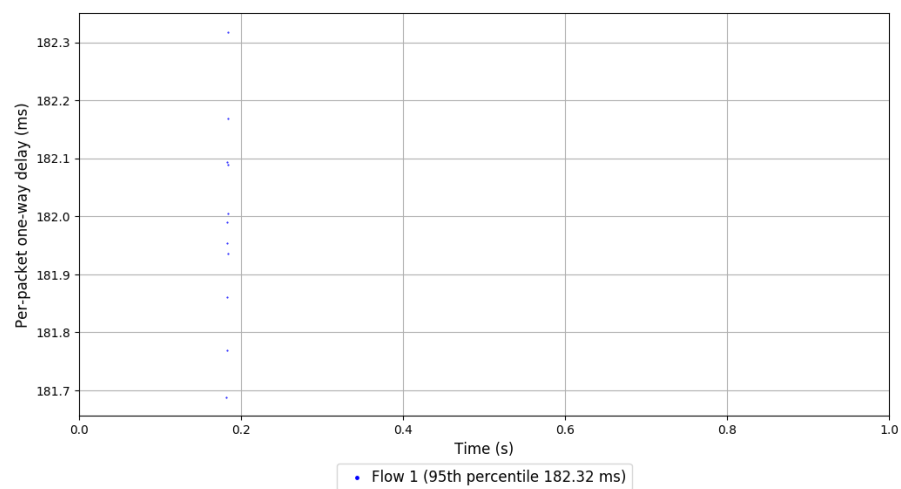
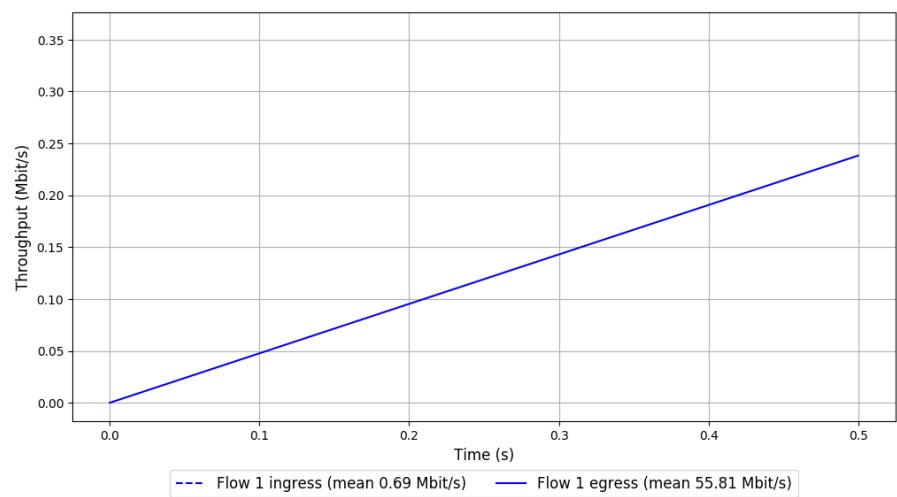
Start at: 2019-01-19 07:45:33

End at: 2019-01-19 07:46:03

Local clock offset: 1.062 ms

Remote clock offset: 44.866 ms

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

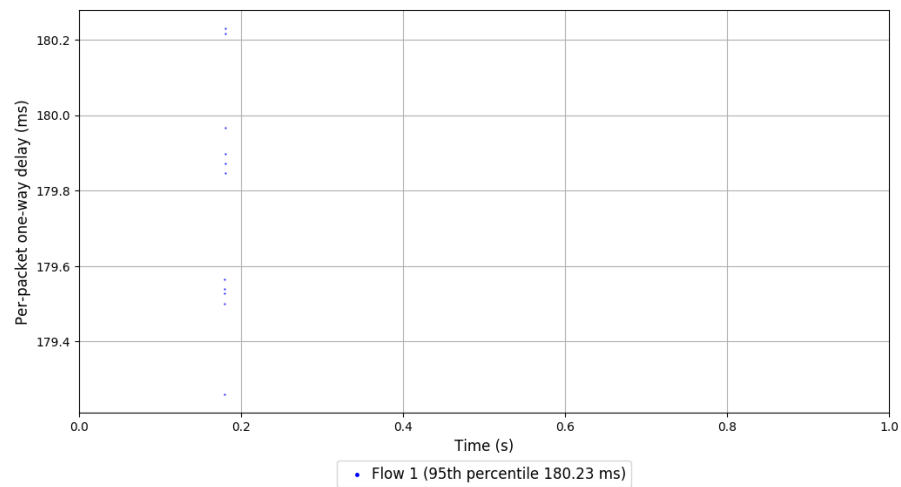
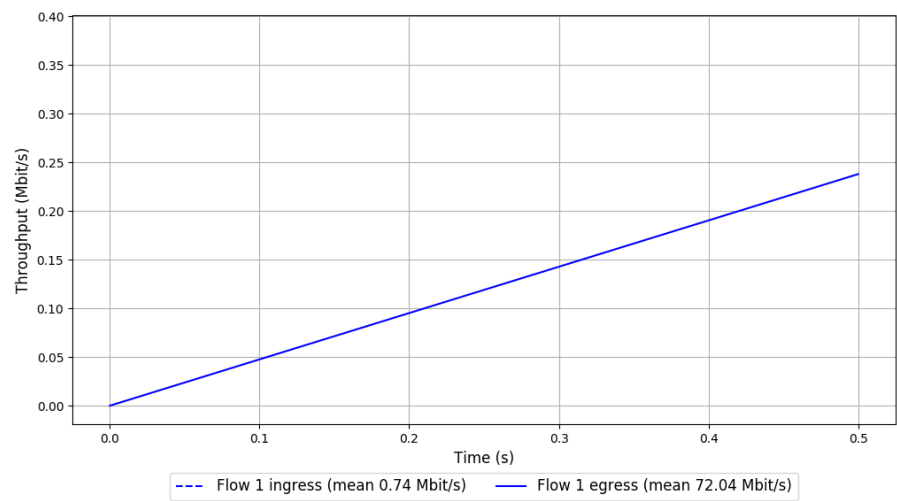
Start at: 2019-01-19 08:40:18

End at: 2019-01-19 08:40:48

Local clock offset: 0.272 ms

Remote clock offset: 44.471 ms

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

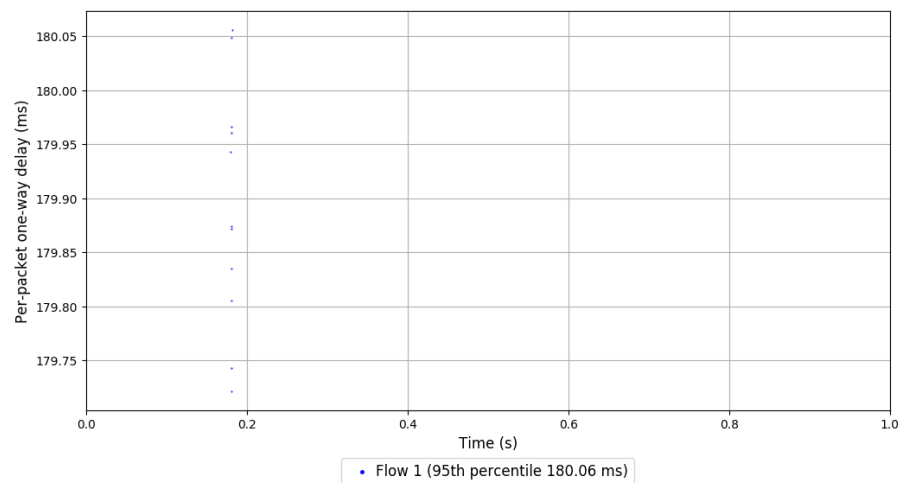
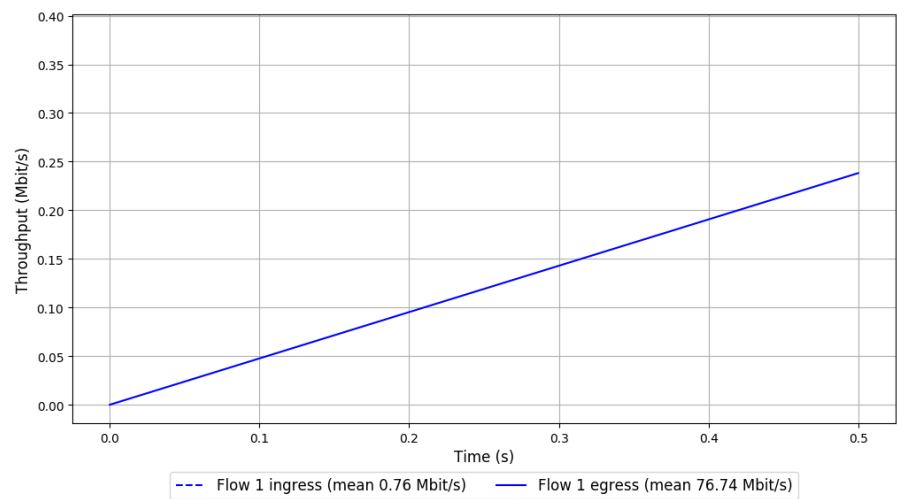
Start at: 2019-01-19 09:40:58

End at: 2019-01-19 09:41:28

Local clock offset: -8.336 ms

Remote clock offset: 39.428 ms

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-01-19 05:20:02

End at: 2019-01-19 05:20:32

Local clock offset: 2.386 ms

Remote clock offset: 26.207 ms

Below is generated by plot.py at 2019-01-19 09:49:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.51 Mbit/s

95th percentile per-packet one-way delay: 177.167 ms

Loss rate: 17.46%

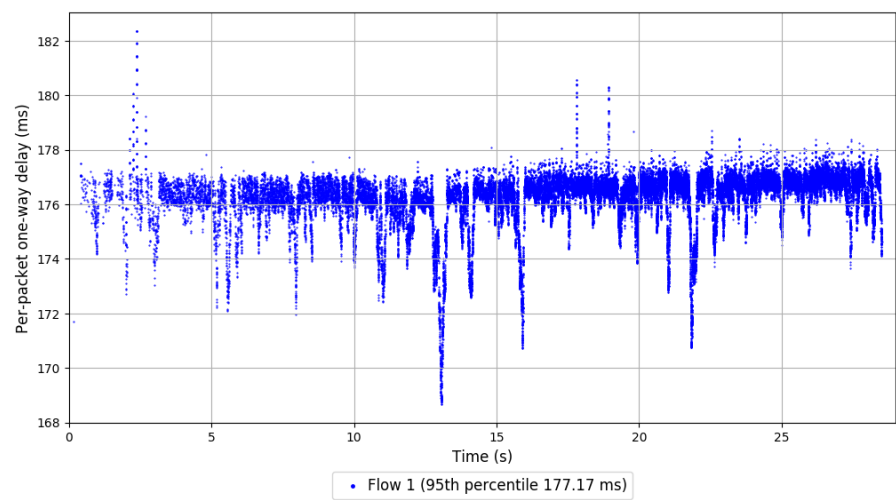
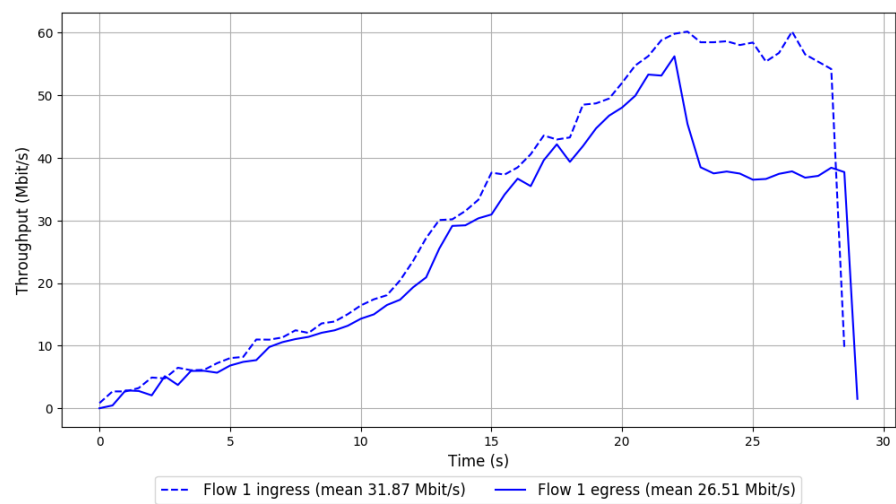
-- Flow 1:

Average throughput: 26.51 Mbit/s

95th percentile per-packet one-way delay: 177.167 ms

Loss rate: 17.46%

Run 1: Report of Indigo-MusesC3 — Data Link

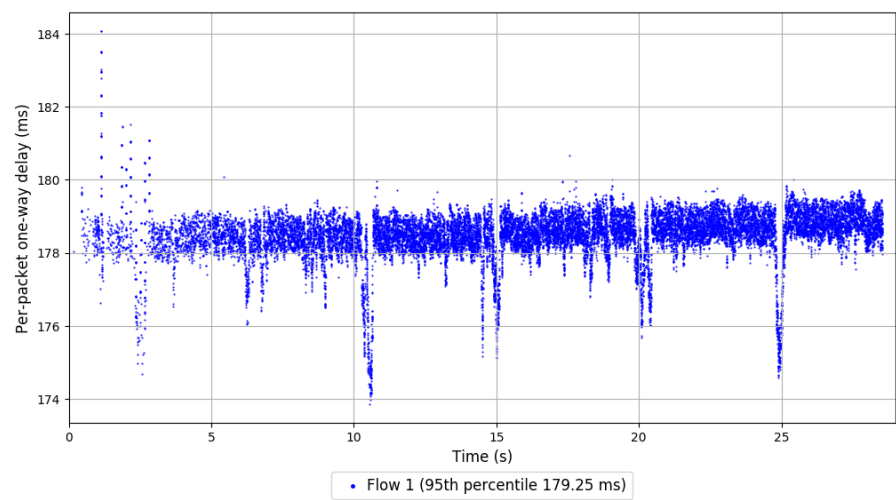
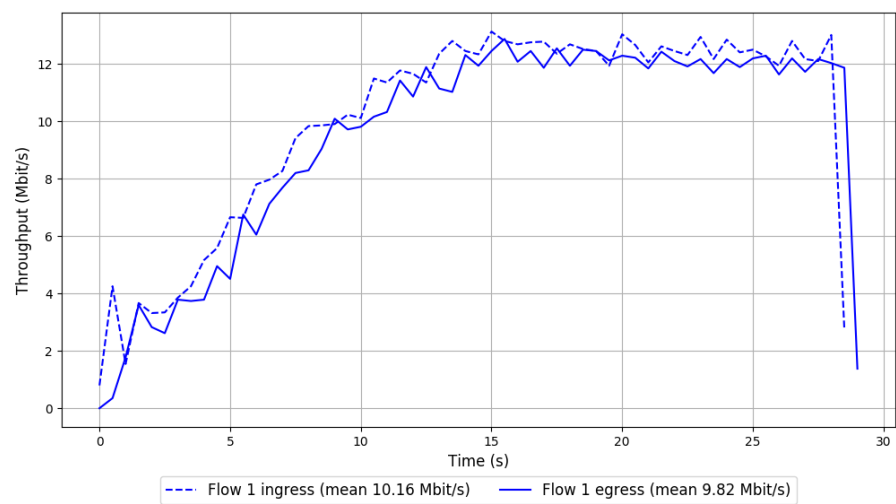


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-01-19 06:07:39
End at: 2019-01-19 06:08:09
Local clock offset: -12.169 ms
Remote clock offset: 39.971 ms

Below is generated by plot.py at 2019-01-19 09:49:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.82 Mbit/s
95th percentile per-packet one-way delay: 179.248 ms
Loss rate: 4.12%
-- Flow 1:
Average throughput: 9.82 Mbit/s
95th percentile per-packet one-way delay: 179.248 ms
Loss rate: 4.12%

Run 2: Report of Indigo-MusesC3 — Data Link

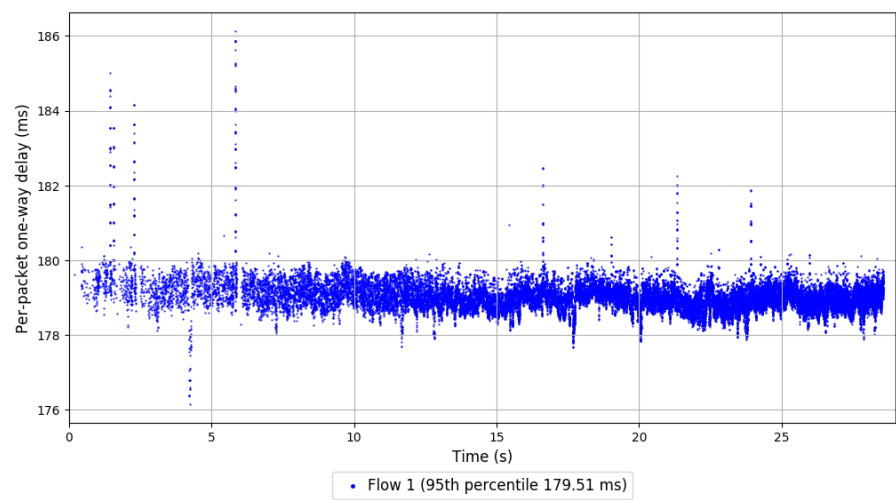
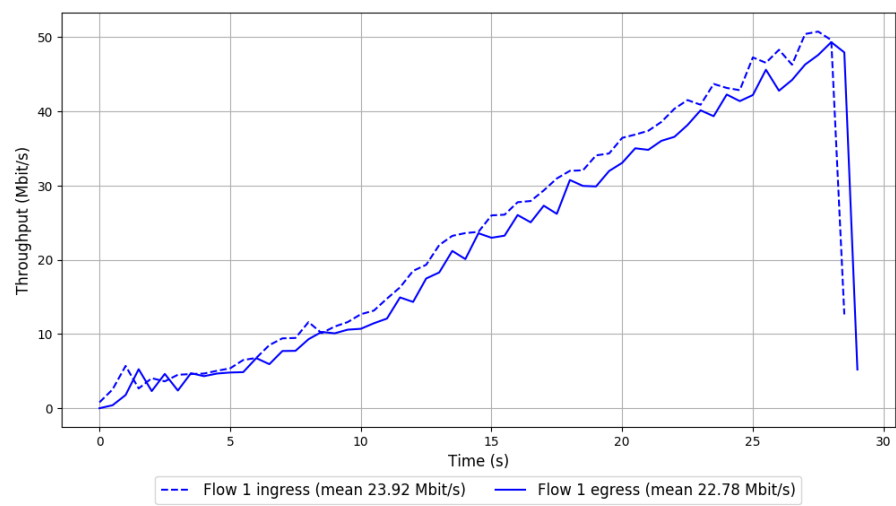


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-01-19 07:02:37
End at: 2019-01-19 07:03:07
Local clock offset: 3.039 ms
Remote clock offset: 52.221 ms

Below is generated by plot.py at 2019-01-19 09:49:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 22.78 Mbit/s
95th percentile per-packet one-way delay: 179.510 ms
Loss rate: 5.54%
-- Flow 1:
Average throughput: 22.78 Mbit/s
95th percentile per-packet one-way delay: 179.510 ms
Loss rate: 5.54%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-01-19 07:57:33

End at: 2019-01-19 07:58:03

Local clock offset: -5.968 ms

Remote clock offset: 50.61 ms

Below is generated by plot.py at 2019-01-19 09:49:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.20 Mbit/s

95th percentile per-packet one-way delay: 178.132 ms

Loss rate: 9.20%

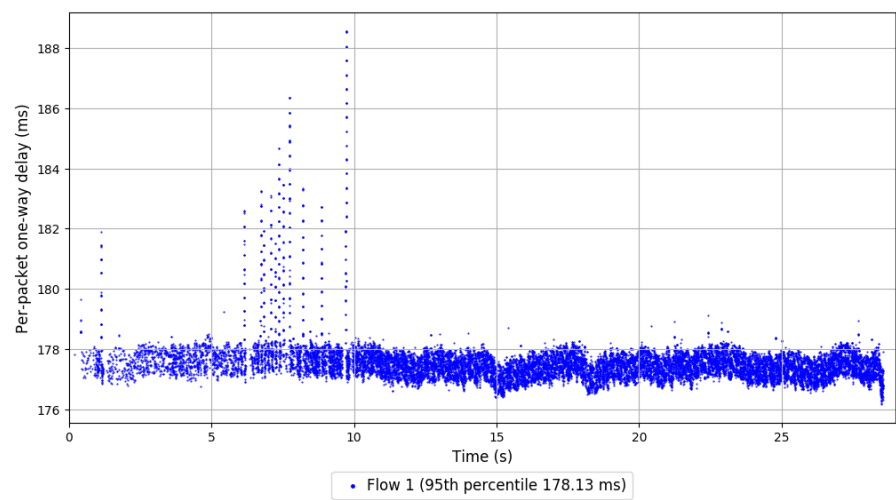
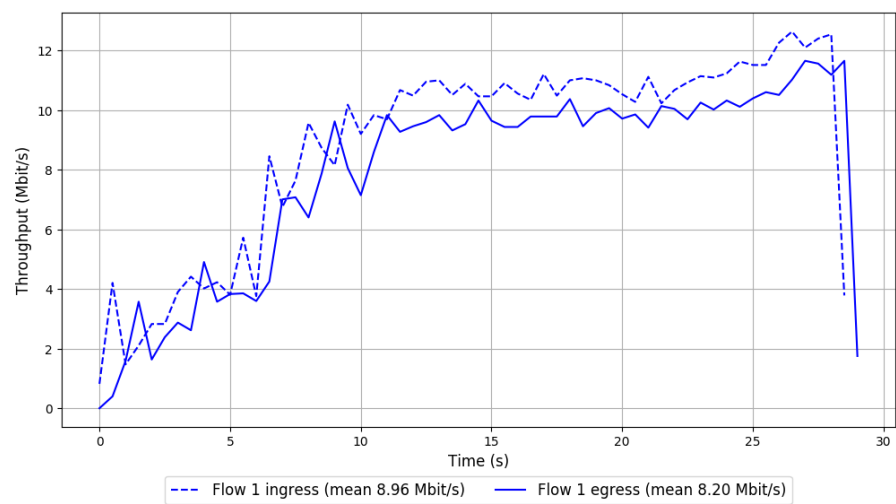
-- Flow 1:

Average throughput: 8.20 Mbit/s

95th percentile per-packet one-way delay: 178.132 ms

Loss rate: 9.20%

Run 4: Report of Indigo-MusesC3 — Data Link

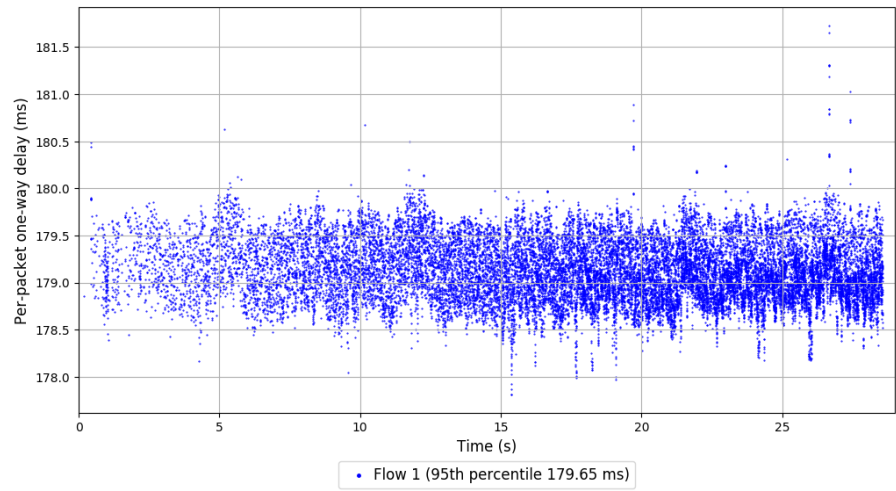
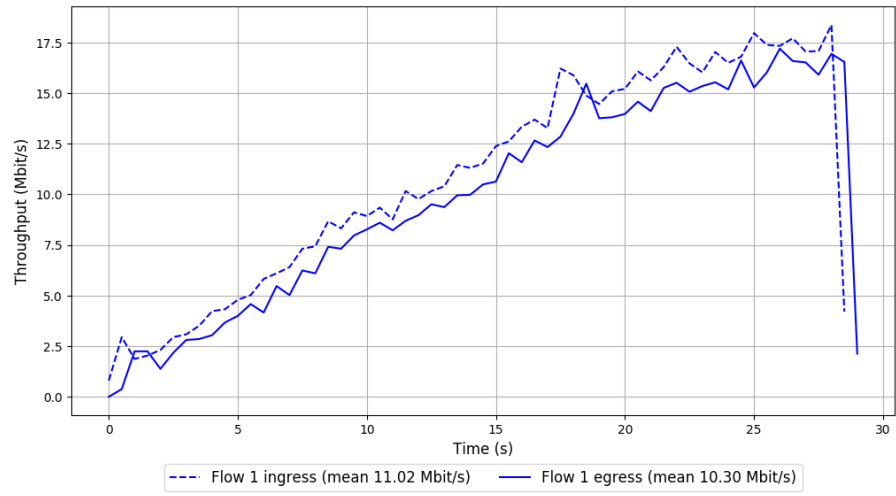


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-01-19 08:49:01
End at: 2019-01-19 08:49:31
Local clock offset: 1.178 ms
Remote clock offset: 43.822 ms

Below is generated by plot.py at 2019-01-19 09:49:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 10.30 Mbit/s
95th percentile per-packet one-way delay: 179.650 ms
Loss rate: 7.38%
-- Flow 1:
Average throughput: 10.30 Mbit/s
95th percentile per-packet one-way delay: 179.650 ms
Loss rate: 7.38%

Run 5: Report of Indigo-MusesC3 — Data Link

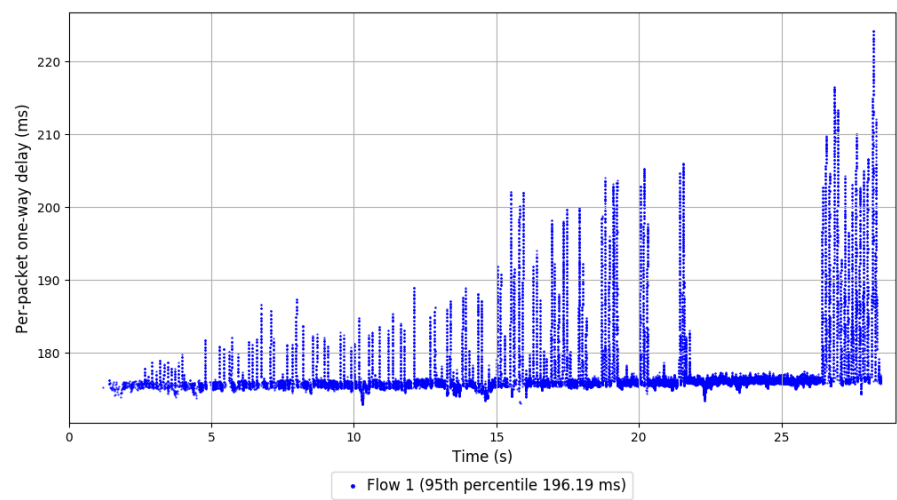
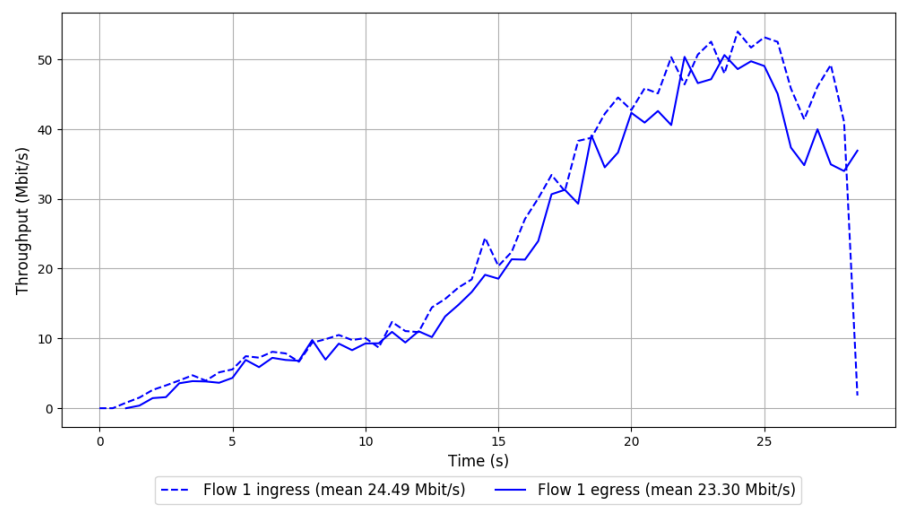


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-01-19 06:02:00
End at: 2019-01-19 06:02:30
Local clock offset: -9.87 ms
Remote clock offset: 36.841 ms

Below is generated by plot.py at 2019-01-19 09:49:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 23.30 Mbit/s
95th percentile per-packet one-way delay: 196.185 ms
Loss rate: 8.97%
-- Flow 1:
Average throughput: 23.30 Mbit/s
95th percentile per-packet one-way delay: 196.185 ms
Loss rate: 8.97%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-01-19 06:56:08

End at: 2019-01-19 06:56:38

Local clock offset: -0.172 ms

Remote clock offset: 51.81 ms

Below is generated by plot.py at 2019-01-19 09:49:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.13 Mbit/s

95th percentile per-packet one-way delay: 208.223 ms

Loss rate: 10.98%

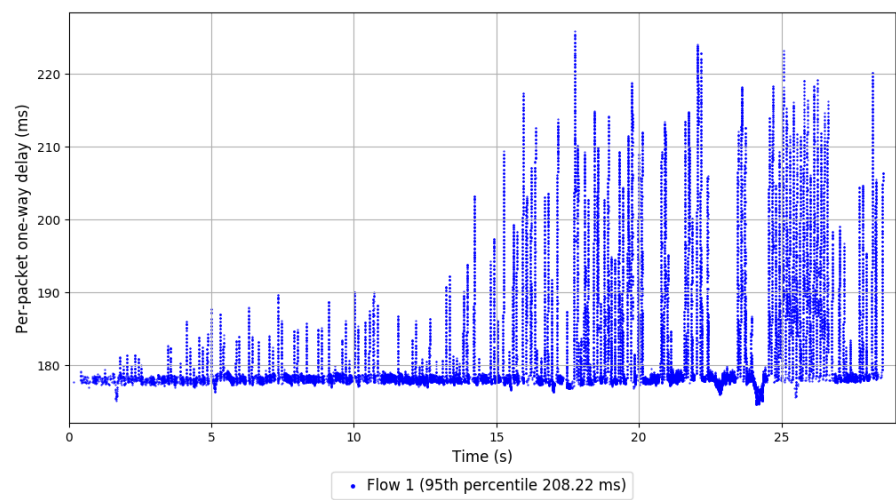
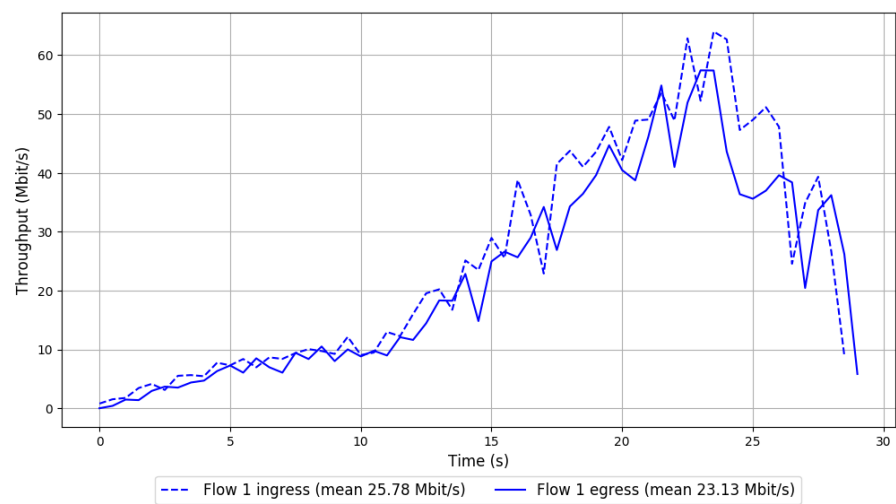
-- Flow 1:

Average throughput: 23.13 Mbit/s

95th percentile per-packet one-way delay: 208.223 ms

Loss rate: 10.98%

Run 2: Report of Indigo-MusesC5 — Data Link

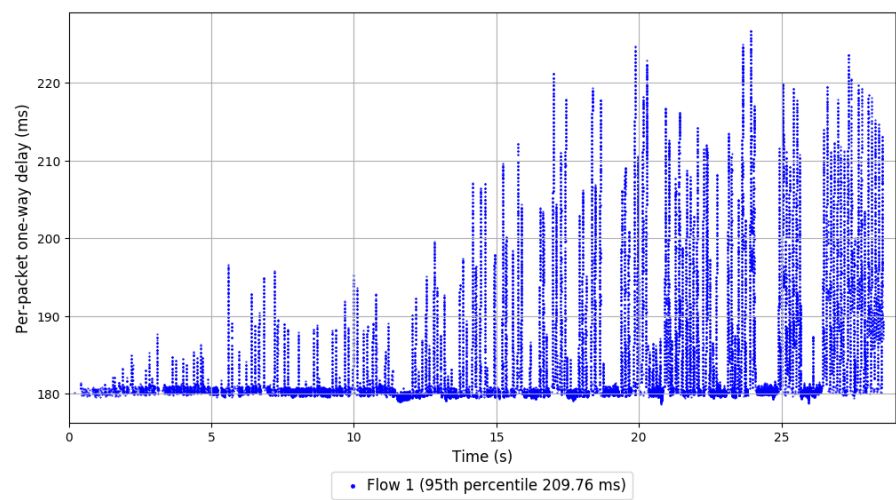
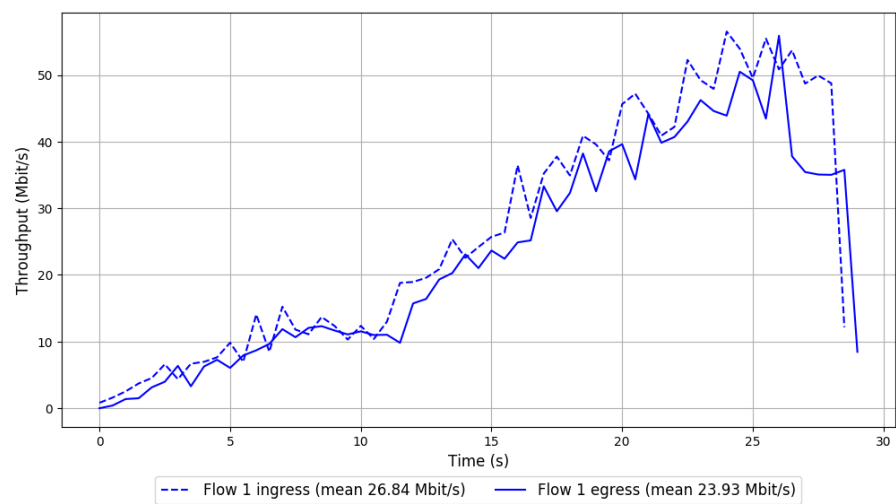


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-01-19 07:49:16
End at: 2019-01-19 07:49:46
Local clock offset: -1.212 ms
Remote clock offset: 47.129 ms

Below is generated by plot.py at 2019-01-19 09:49:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 23.93 Mbit/s
95th percentile per-packet one-way delay: 209.765 ms
Loss rate: 11.63%
-- Flow 1:
Average throughput: 23.93 Mbit/s
95th percentile per-packet one-way delay: 209.765 ms
Loss rate: 11.63%

Run 3: Report of Indigo-MusesC5 — Data Link

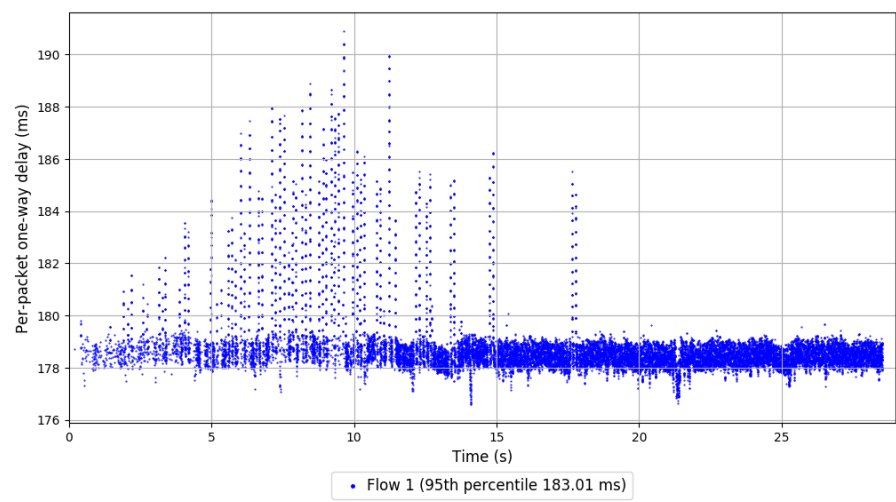
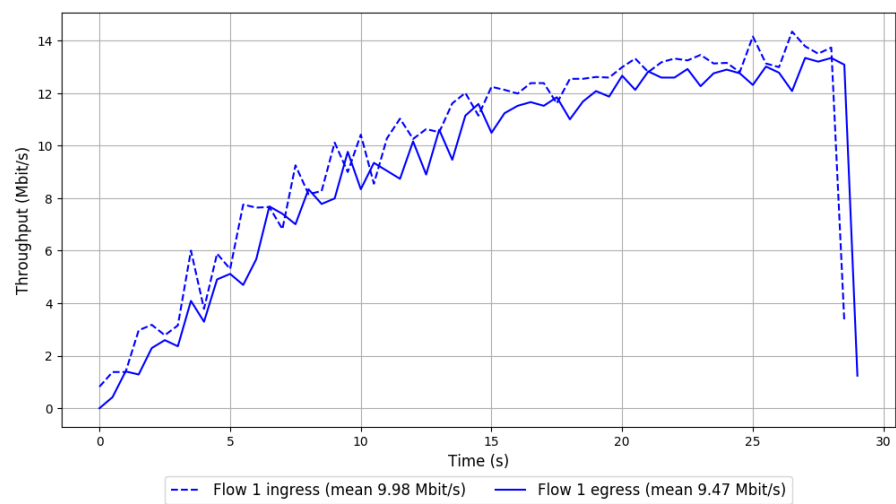


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-01-19 08:43:59
End at: 2019-01-19 08:44:29
Local clock offset: 0.593 ms
Remote clock offset: 44.993 ms

Below is generated by plot.py at 2019-01-19 09:49:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.47 Mbit/s
95th percentile per-packet one-way delay: 183.012 ms
Loss rate: 5.95%
-- Flow 1:
Average throughput: 9.47 Mbit/s
95th percentile per-packet one-way delay: 183.012 ms
Loss rate: 5.95%

Run 4: Report of Indigo-MusesC5 — Data Link

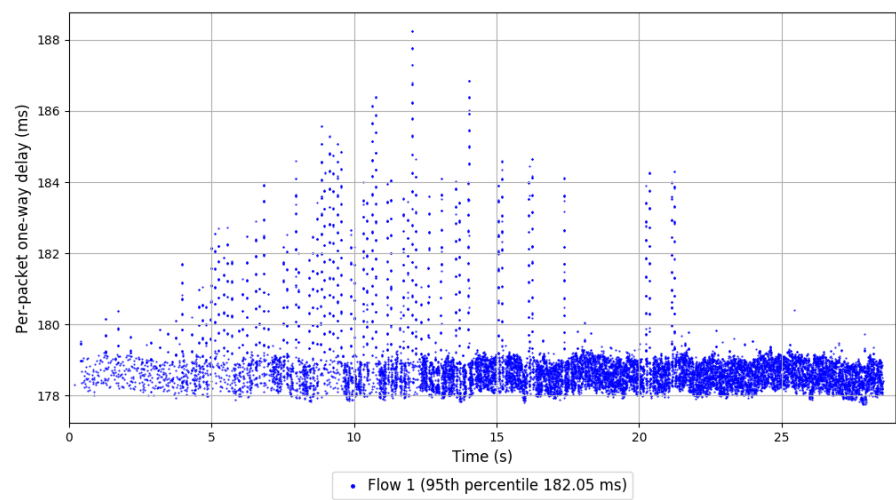
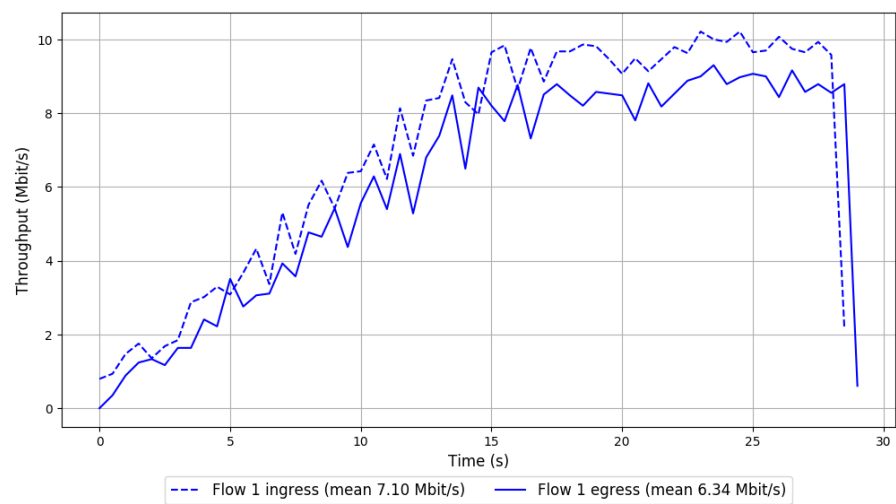


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-01-19 09:44:44
End at: 2019-01-19 09:45:14
Local clock offset: -8.835 ms
Remote clock offset: 40.311 ms

Below is generated by plot.py at 2019-01-19 09:49:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.34 Mbit/s
95th percentile per-packet one-way delay: 182.052 ms
Loss rate: 11.38%
-- Flow 1:
Average throughput: 6.34 Mbit/s
95th percentile per-packet one-way delay: 182.052 ms
Loss rate: 11.38%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-01-19 05:25:04

End at: 2019-01-19 05:25:34

Local clock offset: 3.575 ms

Remote clock offset: 30.261 ms

Below is generated by plot.py at 2019-01-19 09:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.39 Mbit/s

95th percentile per-packet one-way delay: 174.419 ms

Loss rate: 3.03%

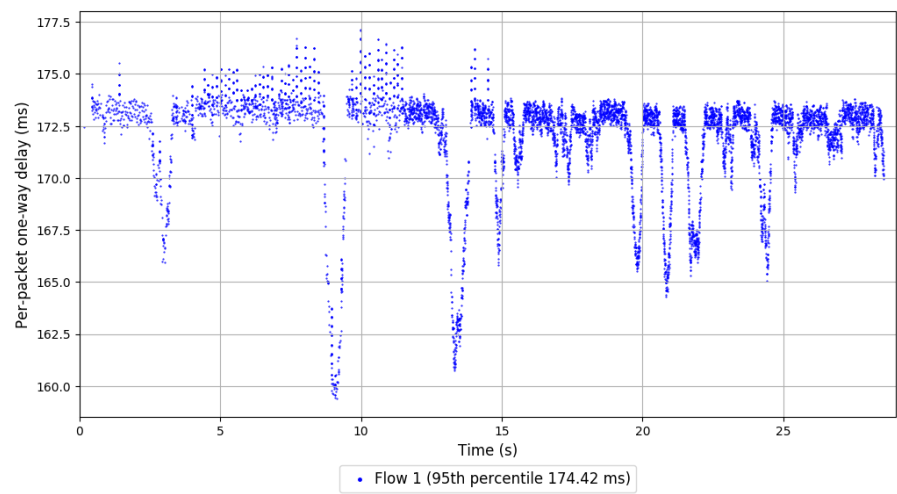
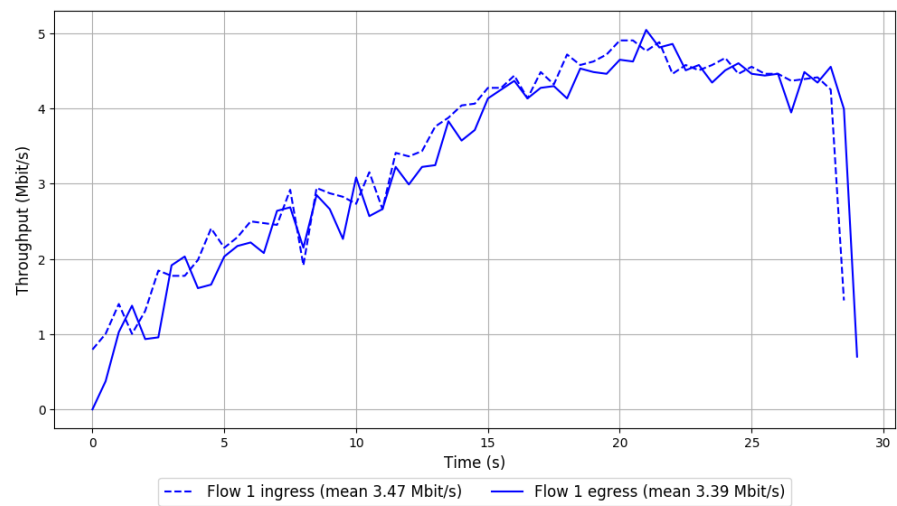
-- Flow 1:

Average throughput: 3.39 Mbit/s

95th percentile per-packet one-way delay: 174.419 ms

Loss rate: 3.03%

Run 1: Report of Indigo-MusesD — Data Link

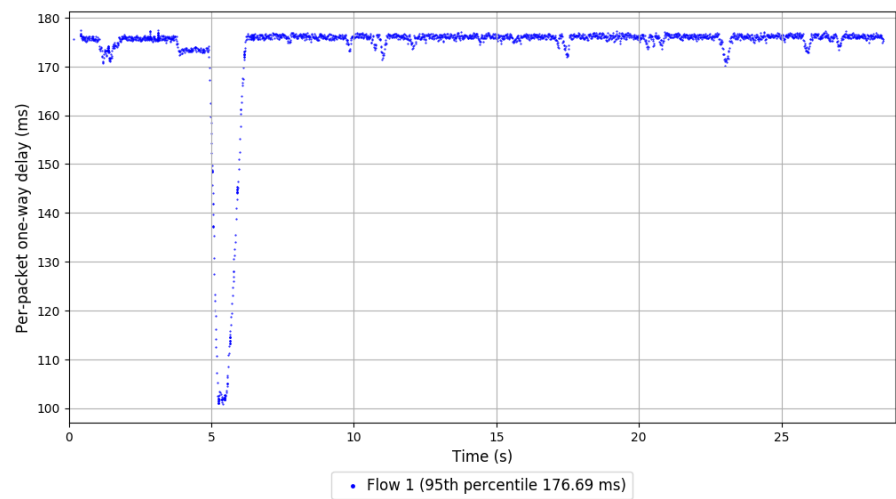
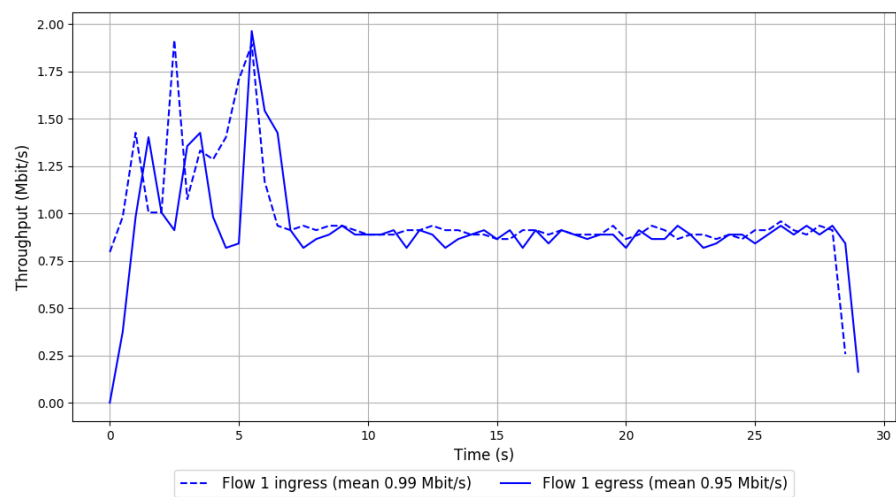


Run 2: Statistics of Indigo-MusesD

Start at: 2019-01-19 06:10:48
End at: 2019-01-19 06:11:18
Local clock offset: -13.235 ms
Remote clock offset: 44.952 ms

Below is generated by plot.py at 2019-01-19 09:49:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.95 Mbit/s
95th percentile per-packet one-way delay: 176.693 ms
Loss rate: 5.33%
-- Flow 1:
Average throughput: 0.95 Mbit/s
95th percentile per-packet one-way delay: 176.693 ms
Loss rate: 5.33%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-01-19 07:05:58

End at: 2019-01-19 07:06:28

Local clock offset: 4.381 ms

Remote clock offset: 51.272 ms

Below is generated by plot.py at 2019-01-19 09:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.59 Mbit/s

95th percentile per-packet one-way delay: 181.716 ms

Loss rate: 5.42%

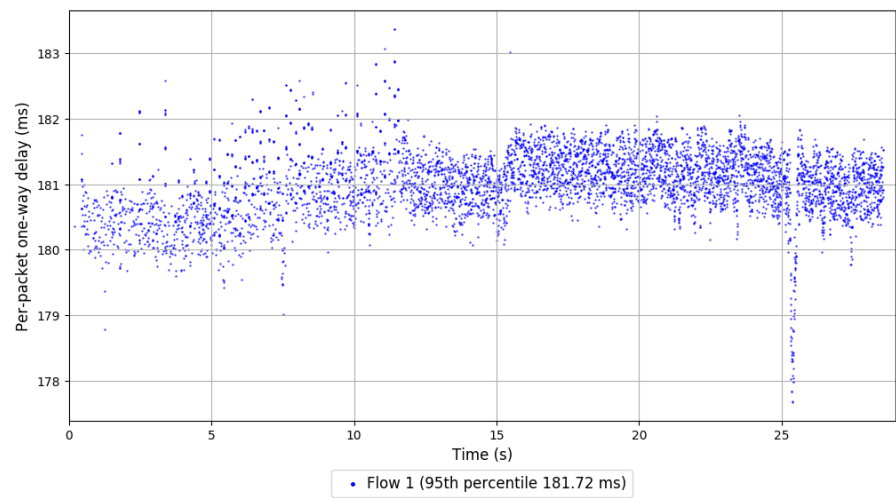
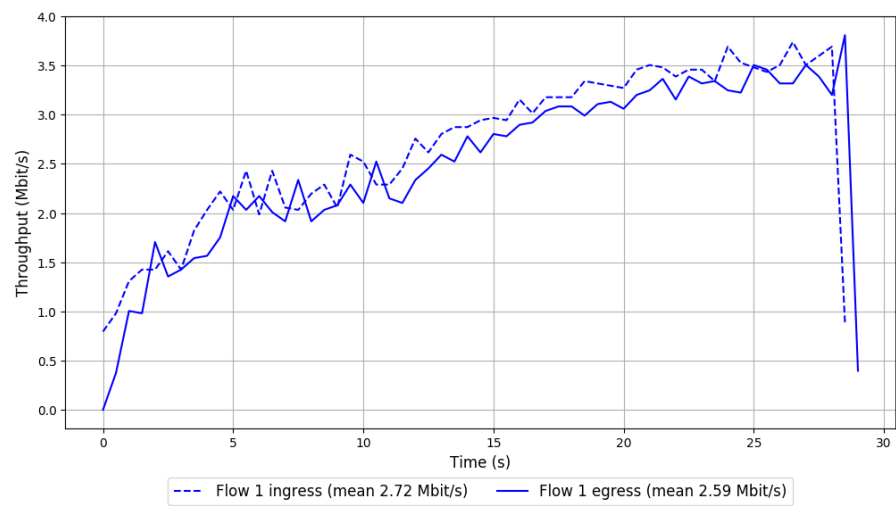
-- Flow 1:

Average throughput: 2.59 Mbit/s

95th percentile per-packet one-way delay: 181.716 ms

Loss rate: 5.42%

Run 3: Report of Indigo-MusesD — Data Link

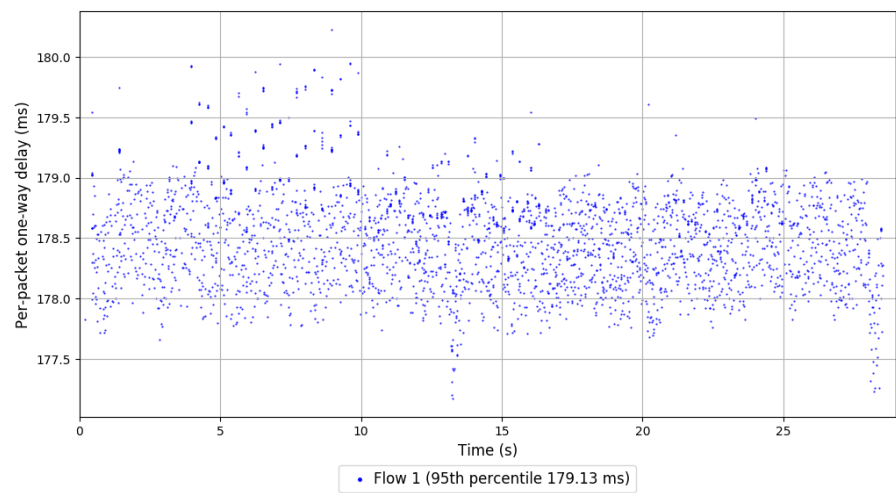
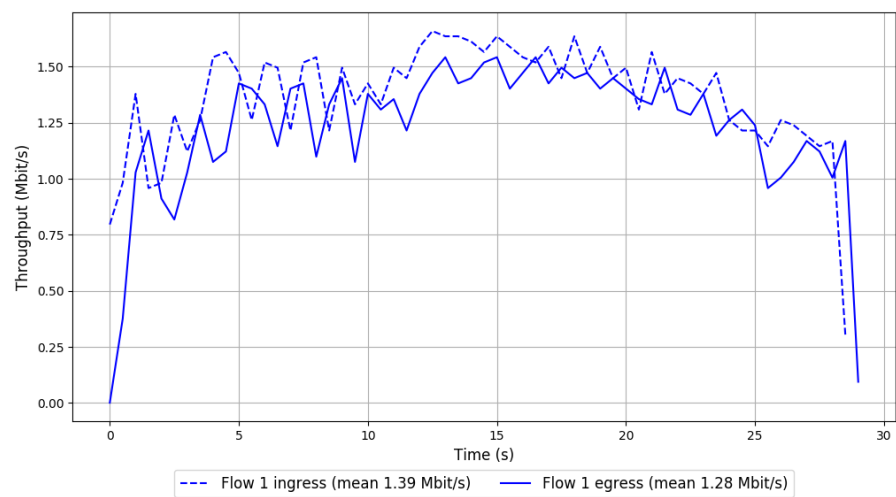


Run 4: Statistics of Indigo-MusesD

Start at: 2019-01-19 08:01:59
End at: 2019-01-19 08:02:29
Local clock offset: -7.519 ms
Remote clock offset: 49.821 ms

Below is generated by plot.py at 2019-01-19 09:49:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 179.133 ms
Loss rate: 8.36%
-- Flow 1:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 179.133 ms
Loss rate: 8.36%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-01-19 08:53:03

End at: 2019-01-19 08:53:33

Local clock offset: 1.07 ms

Remote clock offset: 48.75 ms

Below is generated by plot.py at 2019-01-19 09:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 174.628 ms

Loss rate: 5.12%

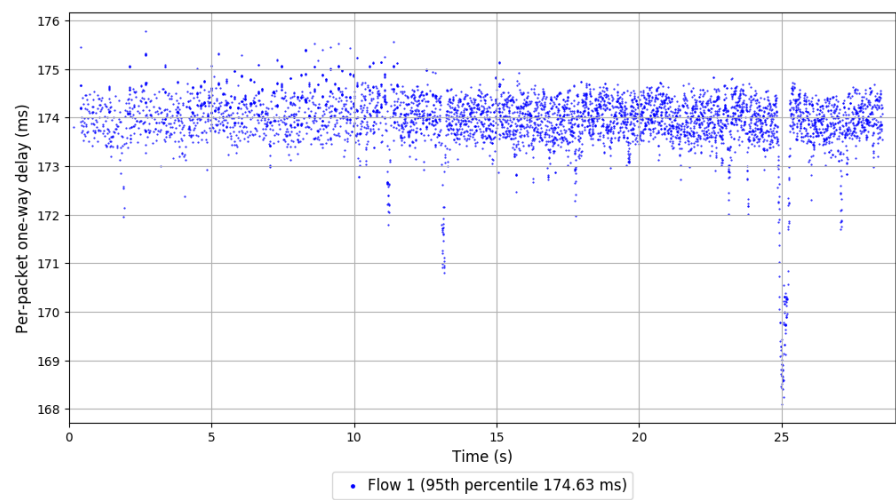
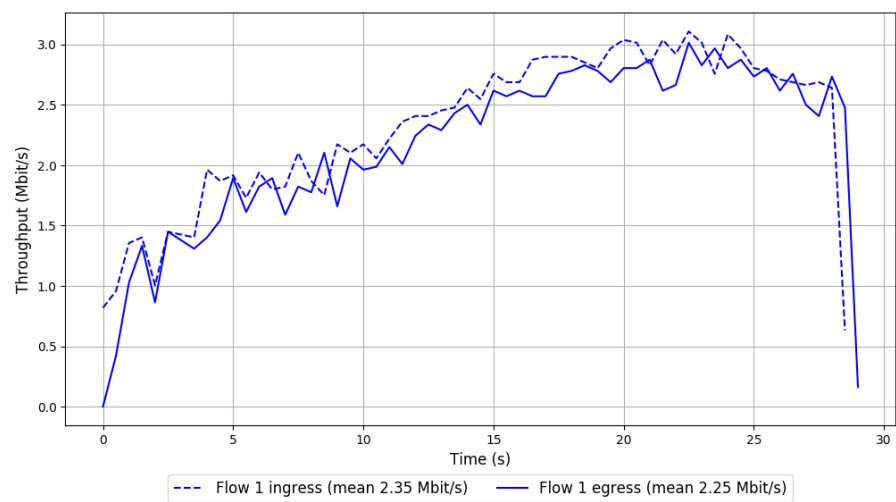
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 174.628 ms

Loss rate: 5.12%

Run 5: Report of Indigo-MusesD — Data Link

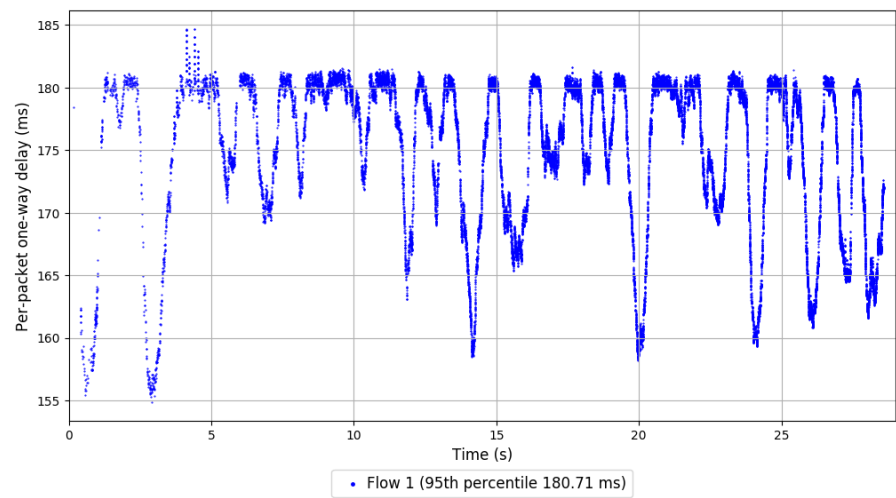
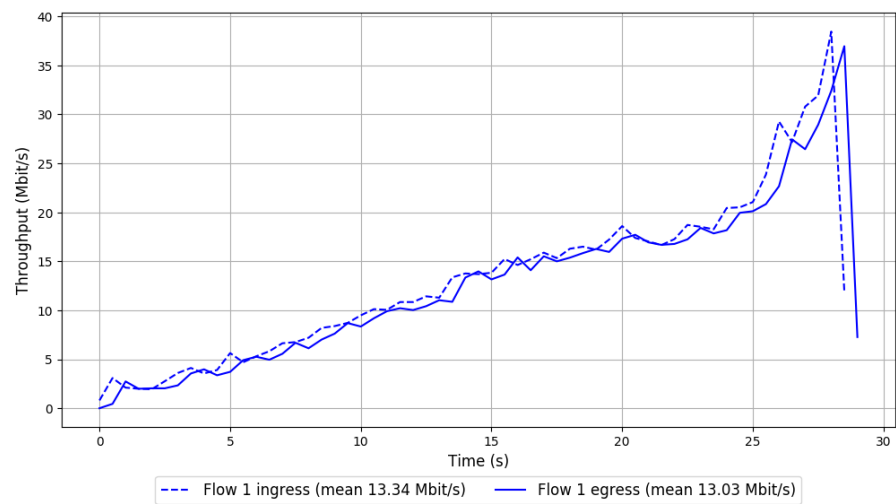


Run 1: Statistics of Indigo-MusesT

Start at: 2019-01-19 05:30:39
End at: 2019-01-19 05:31:09
Local clock offset: 4.645 ms
Remote clock offset: 25.064 ms

Below is generated by plot.py at 2019-01-19 09:49:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.03 Mbit/s
95th percentile per-packet one-way delay: 180.712 ms
Loss rate: 3.08%
-- Flow 1:
Average throughput: 13.03 Mbit/s
95th percentile per-packet one-way delay: 180.712 ms
Loss rate: 3.08%

Run 1: Report of Indigo-MusesT — Data Link

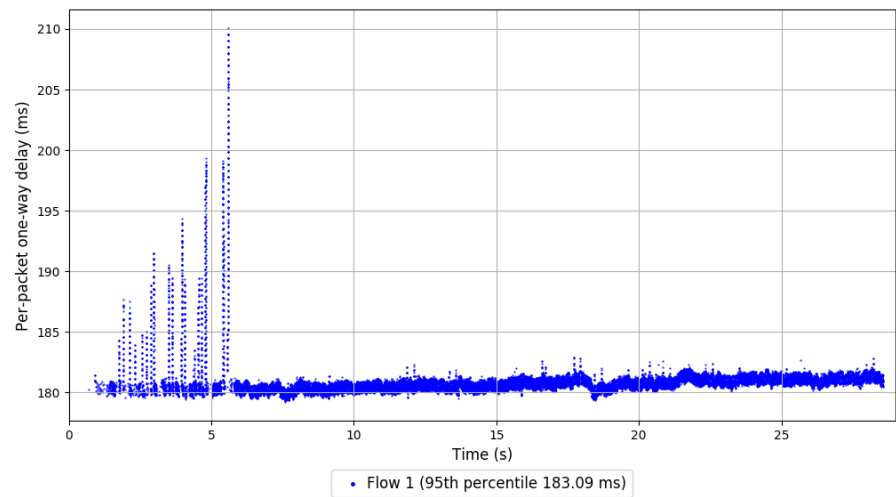
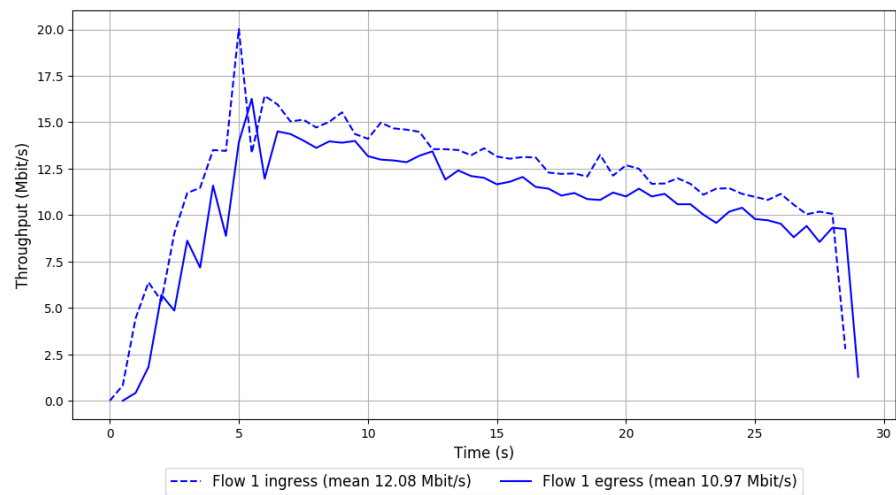


Run 2: Statistics of Indigo-MusesT

Start at: 2019-01-19 06:21:06
End at: 2019-01-19 06:21:36
Local clock offset: -12.422 ms
Remote clock offset: 46.89 ms

Below is generated by plot.py at 2019-01-19 09:49:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 10.97 Mbit/s
95th percentile per-packet one-way delay: 183.091 ms
Loss rate: 11.60%
-- Flow 1:
Average throughput: 10.97 Mbit/s
95th percentile per-packet one-way delay: 183.091 ms
Loss rate: 11.60%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-01-19 07:11:47

End at: 2019-01-19 07:12:17

Local clock offset: 5.629 ms

Remote clock offset: 50.317 ms

Below is generated by plot.py at 2019-01-19 09:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.19 Mbit/s

95th percentile per-packet one-way delay: 180.341 ms

Loss rate: 4.03%

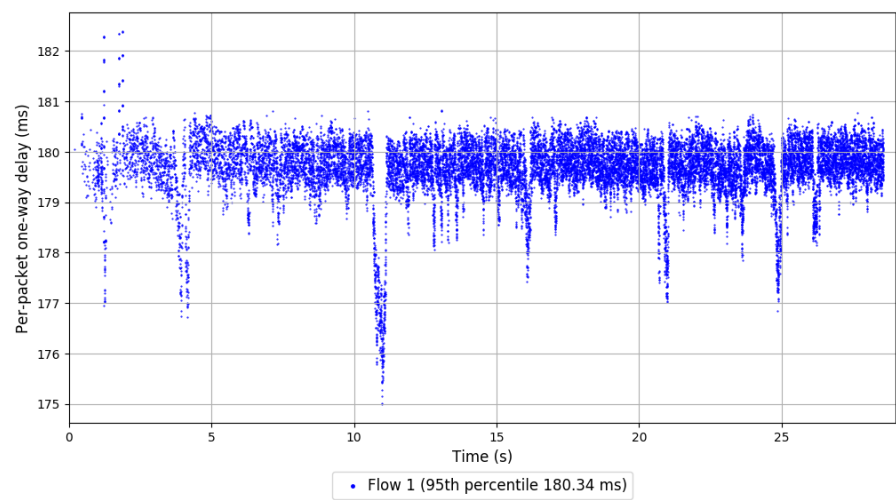
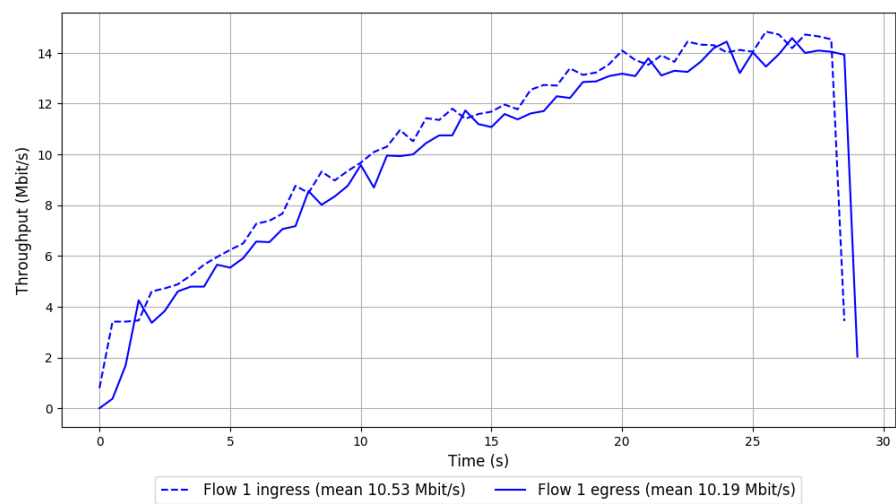
-- Flow 1:

Average throughput: 10.19 Mbit/s

95th percentile per-packet one-way delay: 180.341 ms

Loss rate: 4.03%

Run 3: Report of Indigo-MusesT — Data Link

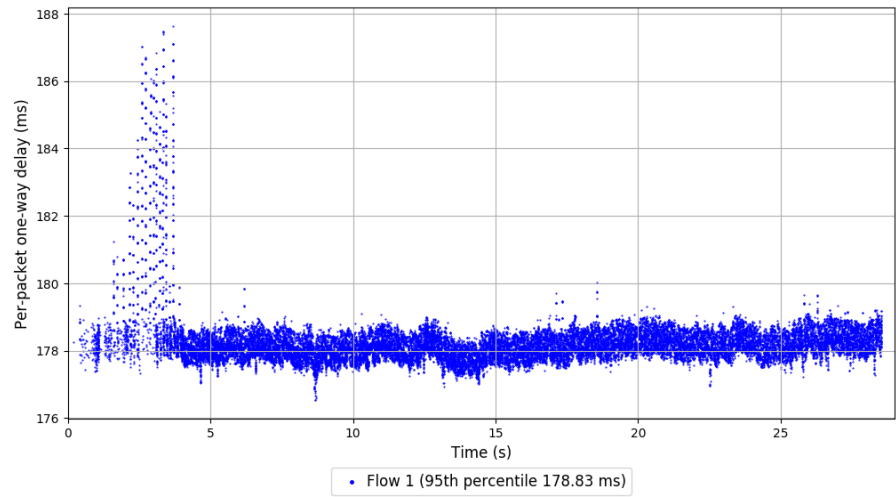
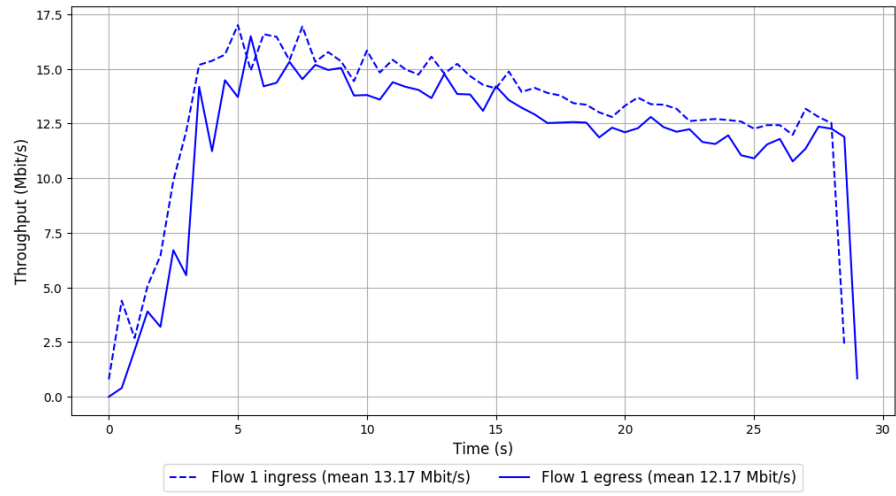


Run 4: Statistics of Indigo-MusesT

Start at: 2019-01-19 08:09:46
End at: 2019-01-19 08:10:16
Local clock offset: -8.719 ms
Remote clock offset: 49.843 ms

Below is generated by plot.py at 2019-01-19 09:49:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.17 Mbit/s
95th percentile per-packet one-way delay: 178.831 ms
Loss rate: 8.34%
-- Flow 1:
Average throughput: 12.17 Mbit/s
95th percentile per-packet one-way delay: 178.831 ms
Loss rate: 8.34%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-01-19 09:02:39

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

Local clock offset: 1.099 ms

Remote clock offset: 44.36 ms

Below is generated by plot.py at 2019-01-19 09:50:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.80 Mbit/s

95th percentile per-packet one-way delay: 181.131 ms

Loss rate: 13.50%

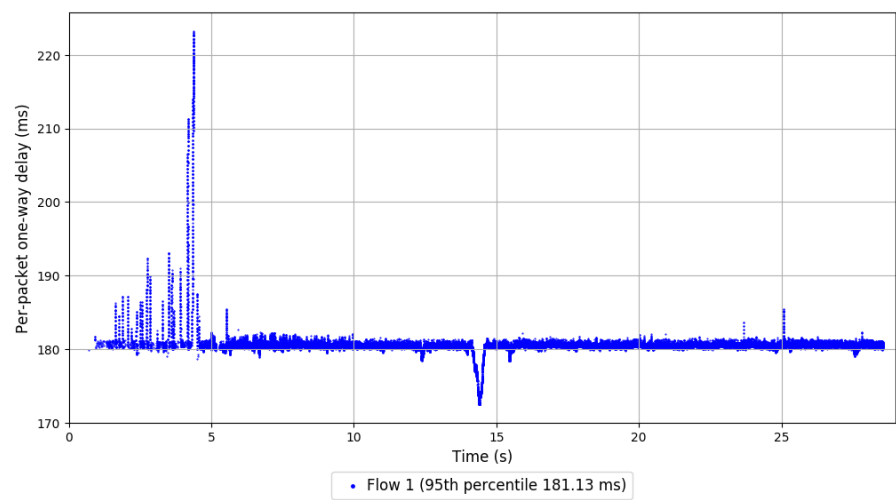
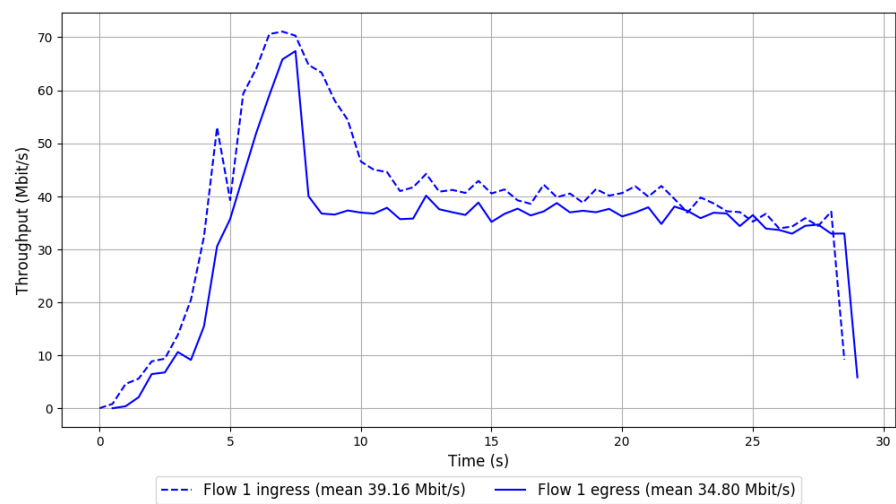
-- Flow 1:

Average throughput: 34.80 Mbit/s

95th percentile per-packet one-way delay: 181.131 ms

Loss rate: 13.50%

Run 5: Report of Indigo-MusesT — Data Link

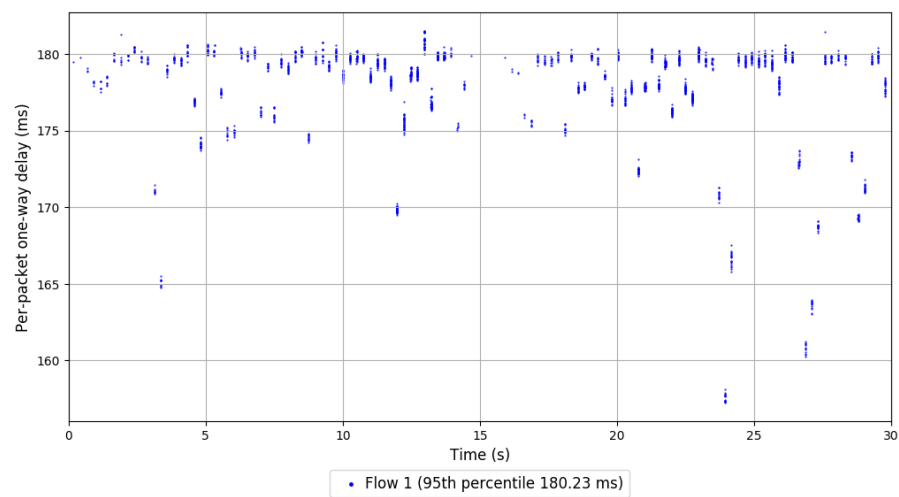
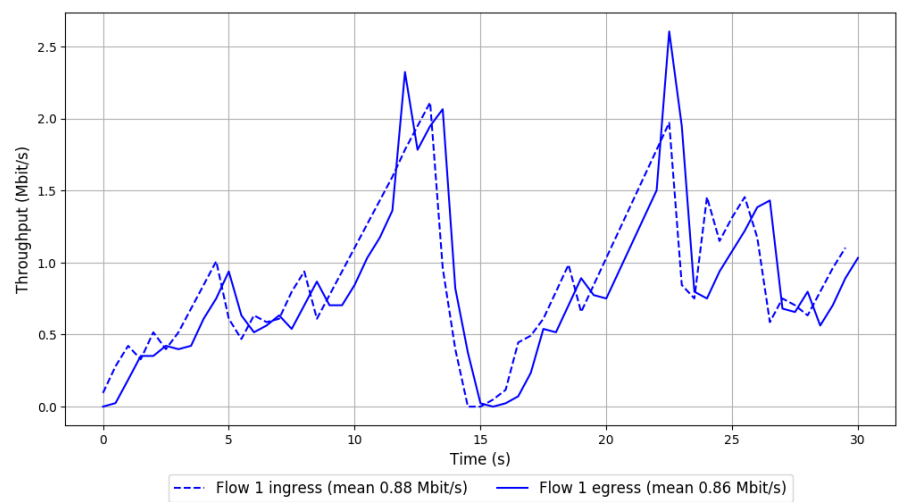


Run 1: Statistics of LEDBAT

Start at: 2019-01-19 05:42:12
End at: 2019-01-19 05:42:42
Local clock offset: 6.021 ms
Remote clock offset: 27.838 ms

Below is generated by plot.py at 2019-01-19 09:50:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 180.234 ms
Loss rate: 2.69%
-- Flow 1:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 180.234 ms
Loss rate: 2.69%

Run 1: Report of LEDBAT — Data Link

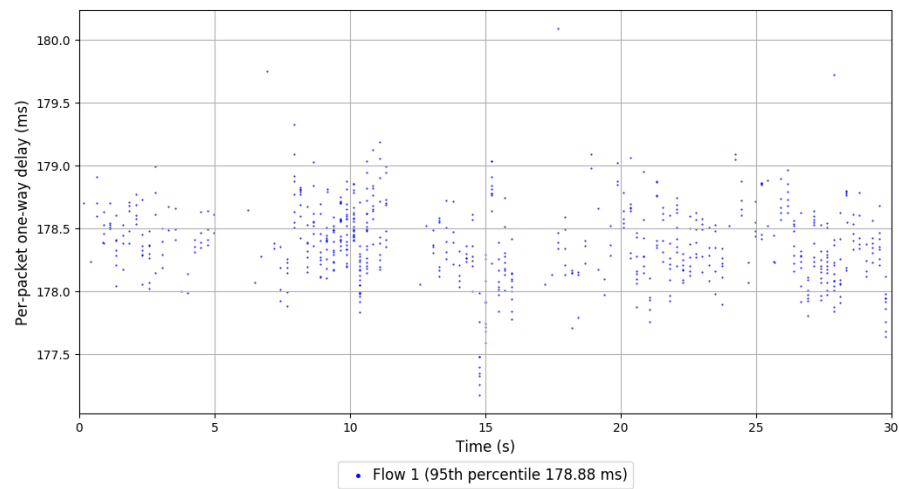
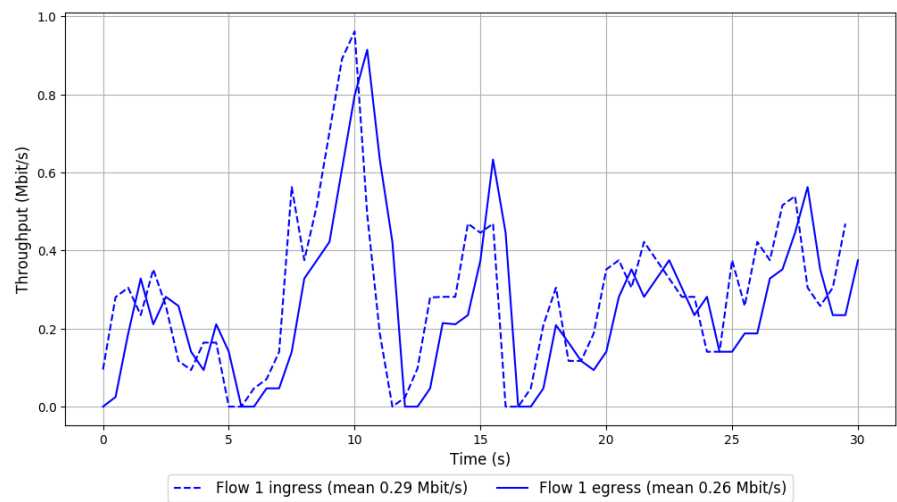


Run 2: Statistics of LEDBAT

Start at: 2019-01-19 06:35:23
End at: 2019-01-19 06:35:53
Local clock offset: -10.249 ms
Remote clock offset: 52.369 ms

Below is generated by plot.py at 2019-01-19 09:50:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 178.876 ms
Loss rate: 9.56%
-- Flow 1:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 178.876 ms
Loss rate: 9.56%

Run 2: Report of LEDBAT — Data Link

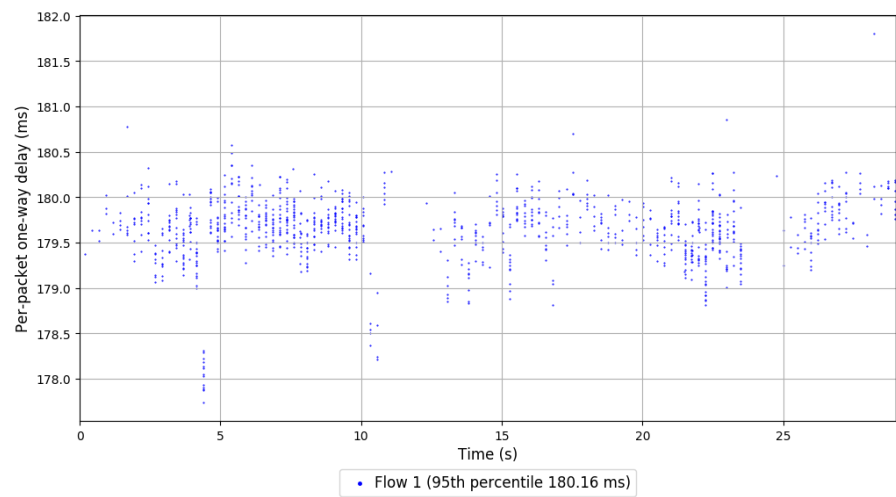
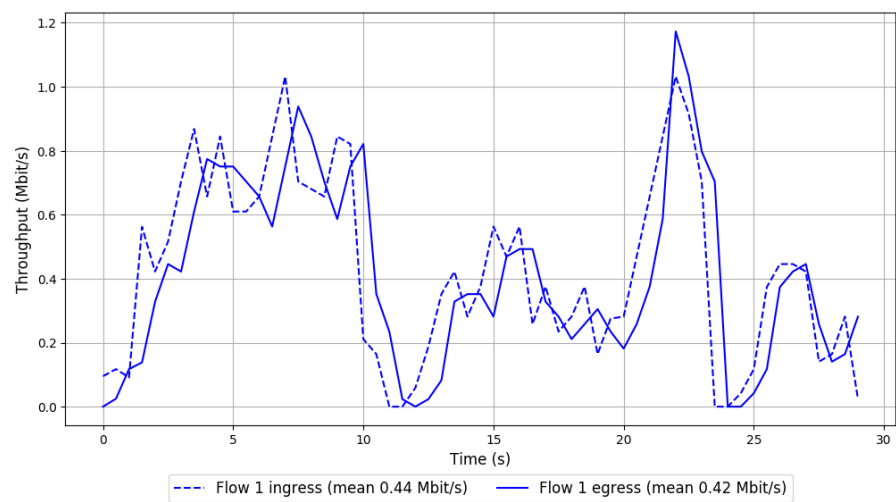


Run 3: Statistics of LEDBAT

Start at: 2019-01-19 07:27:47
End at: 2019-01-19 07:28:18
Local clock offset: 2.018 ms
Remote clock offset: 45.438 ms

Below is generated by plot.py at 2019-01-19 09:50:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 180.155 ms
Loss rate: 4.63%
-- Flow 1:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 180.155 ms
Loss rate: 4.63%

Run 3: Report of LEDBAT — Data Link

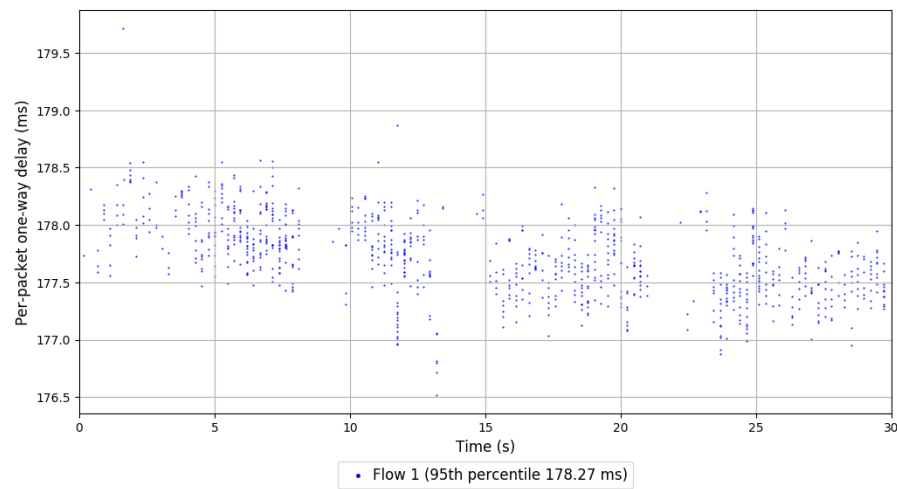
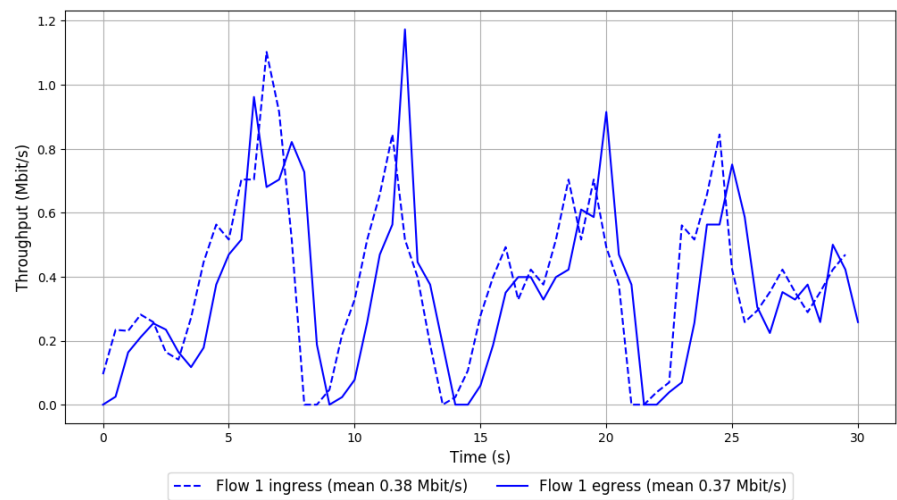


Run 4: Statistics of LEDBAT

Start at: 2019-01-19 08:22:47
End at: 2019-01-19 08:23:17
Local clock offset: -4.715 ms
Remote clock offset: 47.283 ms

Below is generated by plot.py at 2019-01-19 09:50:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 178.273 ms
Loss rate: 5.22%
-- Flow 1:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 178.273 ms
Loss rate: 5.22%

Run 4: Report of LEDBAT — Data Link

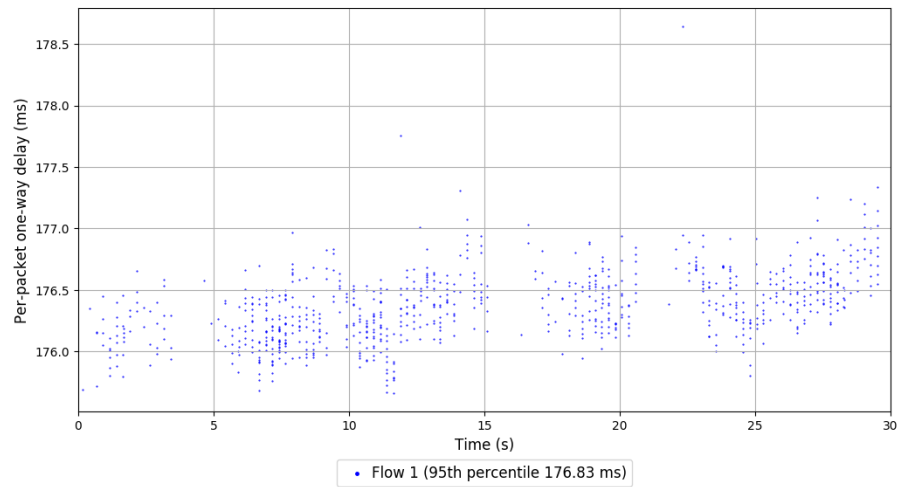
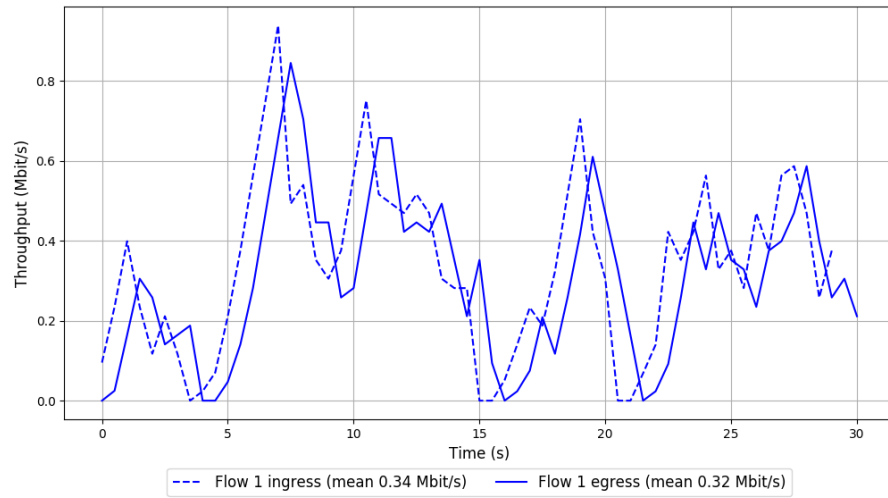


Run 5: Statistics of LEDBAT

Start at: 2019-01-19 09:17:54
End at: 2019-01-19 09:18:24
Local clock offset: 1.028 ms
Remote clock offset: 50.791 ms

Below is generated by plot.py at 2019-01-19 09:50:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 176.831 ms
Loss rate: 6.93%
-- Flow 1:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 176.831 ms
Loss rate: 6.93%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

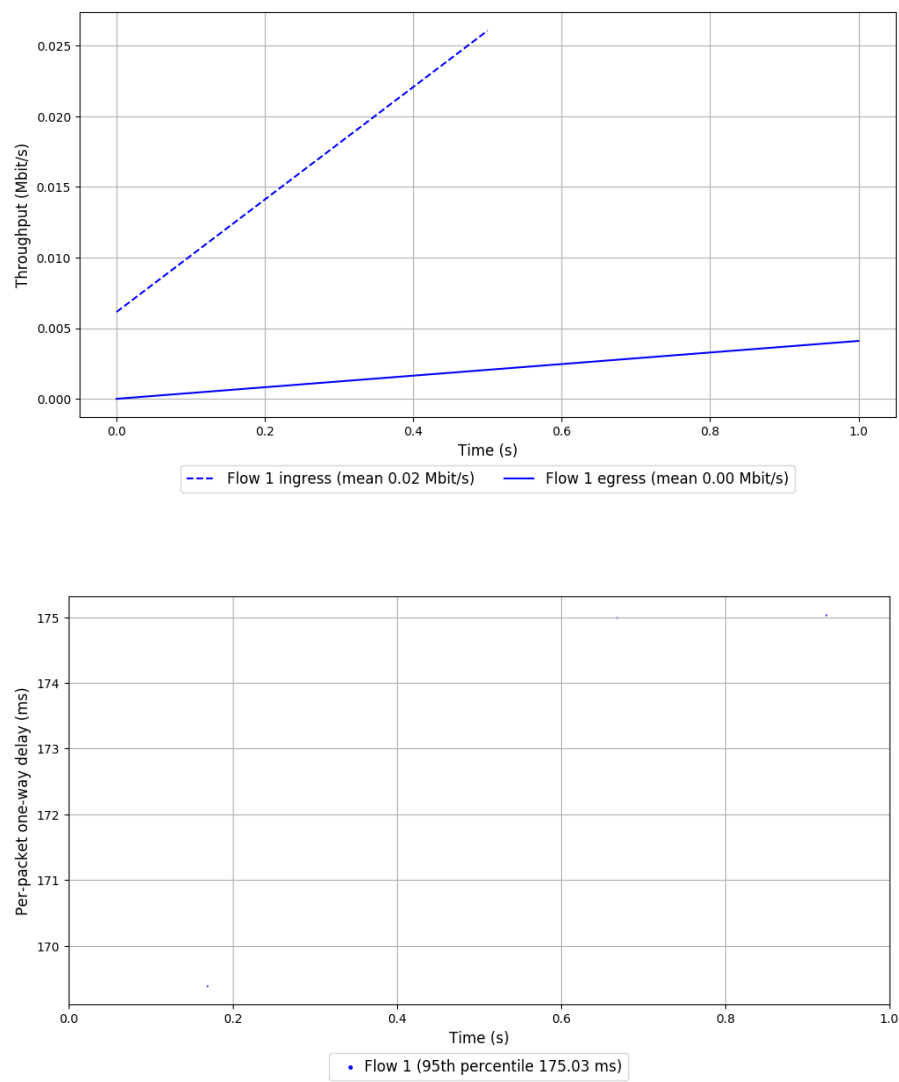
Start at: 2019-01-19 05:29:29

End at: 2019-01-19 05:29:59

Local clock offset: 4.557 ms

Remote clock offset: 29.658 ms

Run 1: Report of PCC-Allegro — Data Link

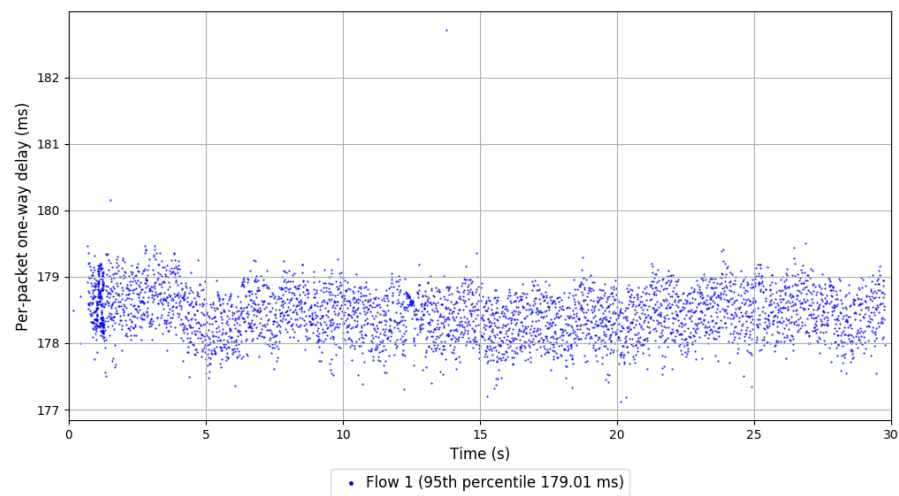
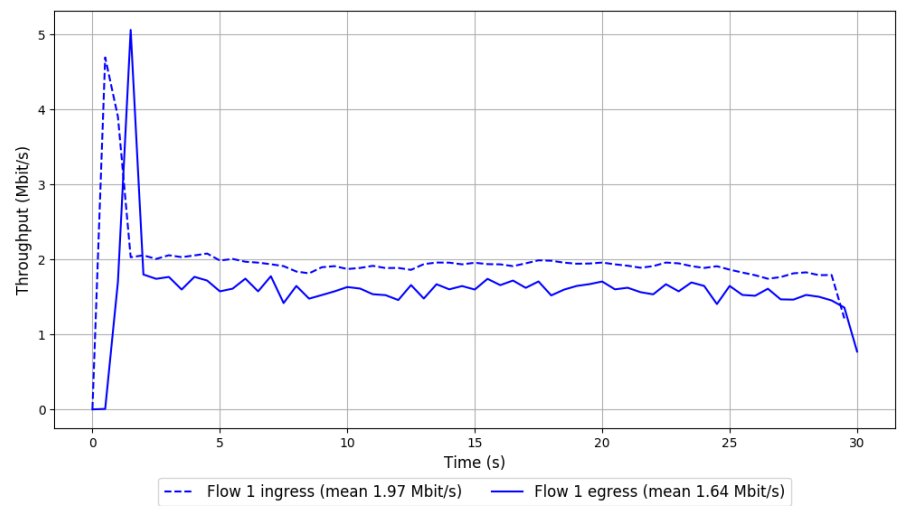


Run 2: Statistics of PCC-Allegro

Start at: 2019-01-19 06:19:26
End at: 2019-01-19 06:19:56
Local clock offset: -13.293 ms
Remote clock offset: 47.831 ms

Below is generated by plot.py at 2019-01-19 09:50:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.64 Mbit/s
95th percentile per-packet one-way delay: 179.012 ms
Loss rate: 17.17%
-- Flow 1:
Average throughput: 1.64 Mbit/s
95th percentile per-packet one-way delay: 179.012 ms
Loss rate: 17.17%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-01-19 07:10:22

End at: 2019-01-19 07:10:52

Local clock offset: 5.463 ms

Remote clock offset: 52.56 ms

Below is generated by plot.py at 2019-01-19 09:50:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 179.405 ms

Loss rate: 7.51%

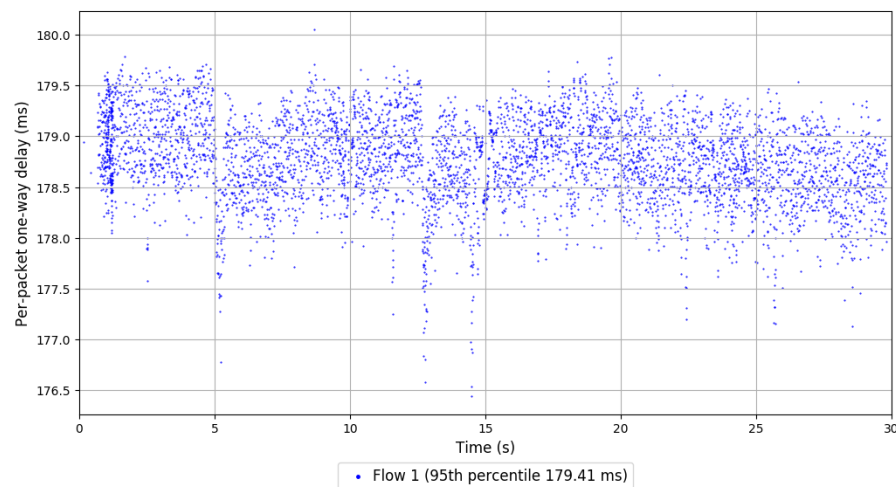
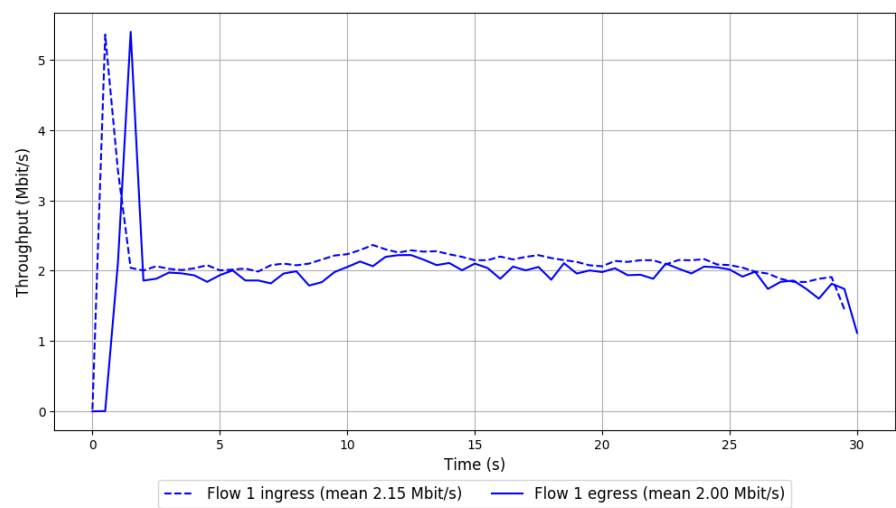
-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 179.405 ms

Loss rate: 7.51%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

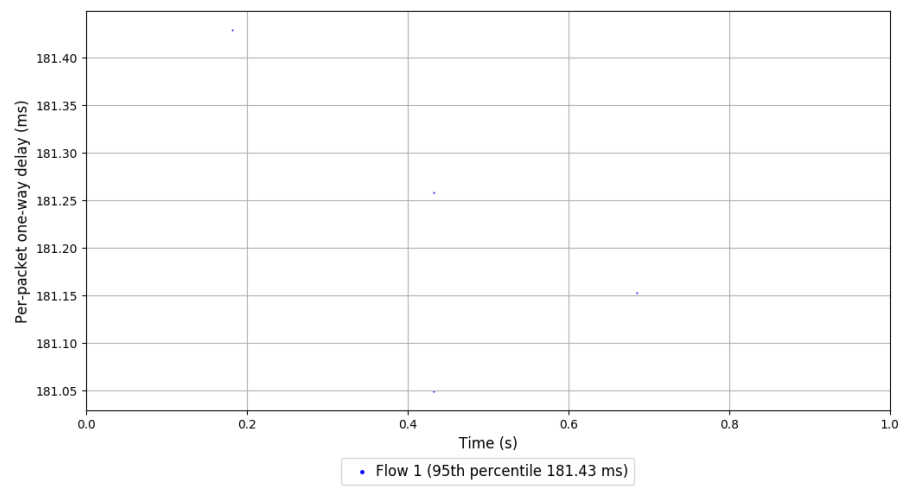
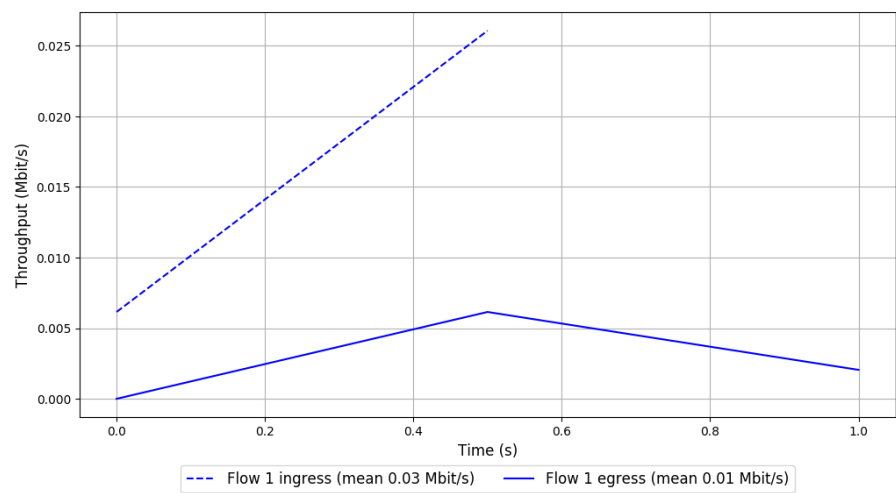
Start at: 2019-01-19 08:08:35

End at: 2019-01-19 08:09:05

Local clock offset: -8.645 ms

Remote clock offset: 45.912 ms

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-01-19 08:58:40

End at: 2019-01-19 08:59:10

Local clock offset: 1.239 ms

Remote clock offset: 45.993 ms

Below is generated by plot.py at 2019-01-19 09:50:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.68 Mbit/s

95th percentile per-packet one-way delay: 178.678 ms

Loss rate: 8.85%

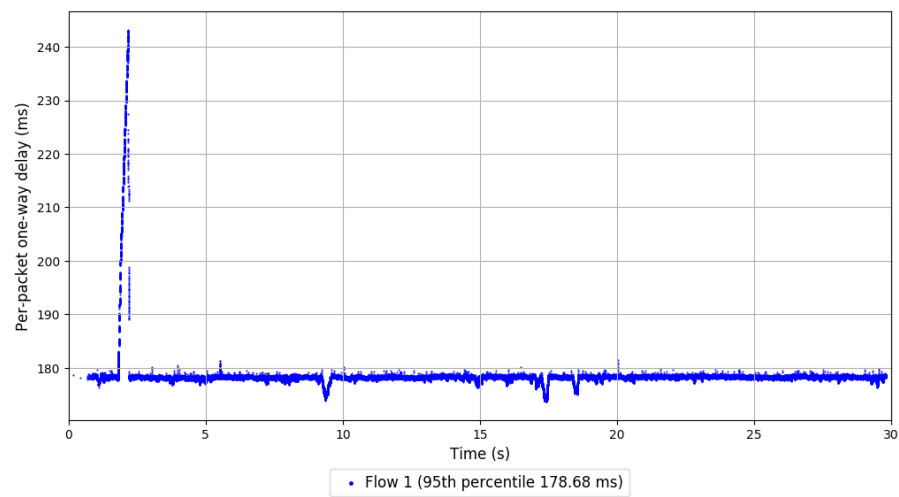
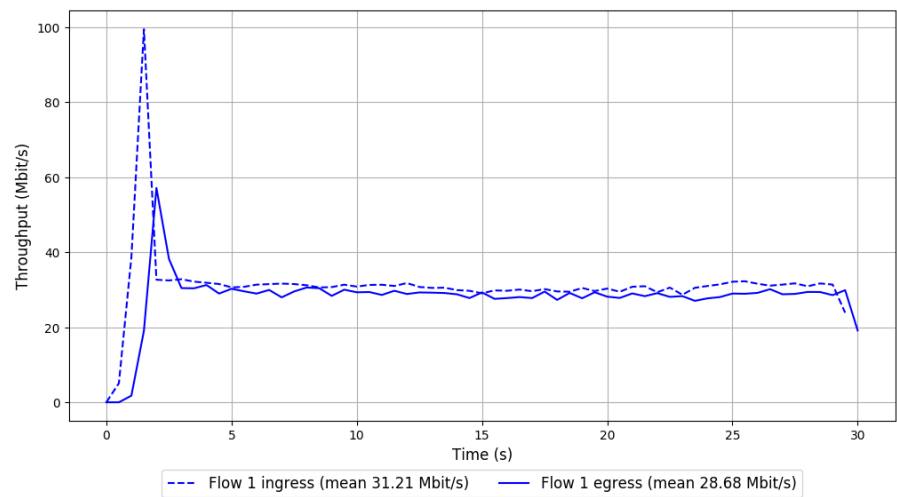
-- Flow 1:

Average throughput: 28.68 Mbit/s

95th percentile per-packet one-way delay: 178.678 ms

Loss rate: 8.85%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-01-19 05:28:02

End at: 2019-01-19 05:28:32

Local clock offset: 4.225 ms

Remote clock offset: 28.775 ms

Below is generated by plot.py at 2019-01-19 09:50:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.25 Mbit/s

95th percentile per-packet one-way delay: 175.796 ms

Loss rate: 2.35%

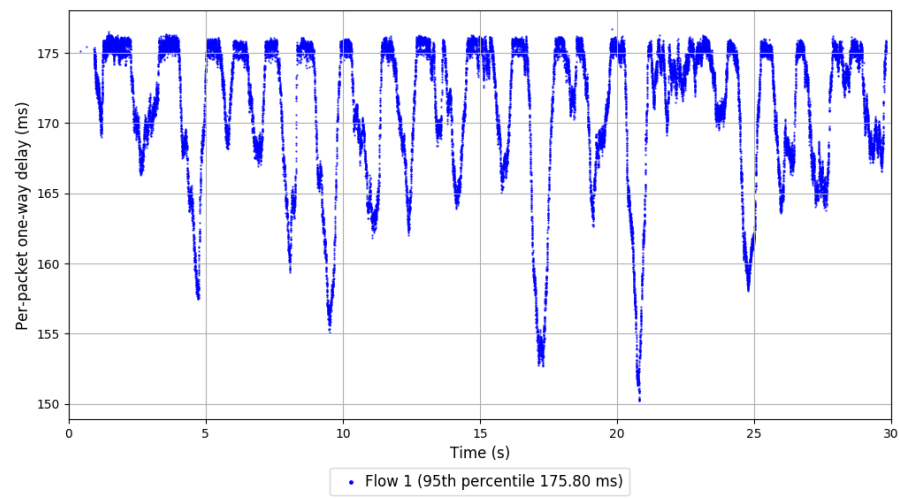
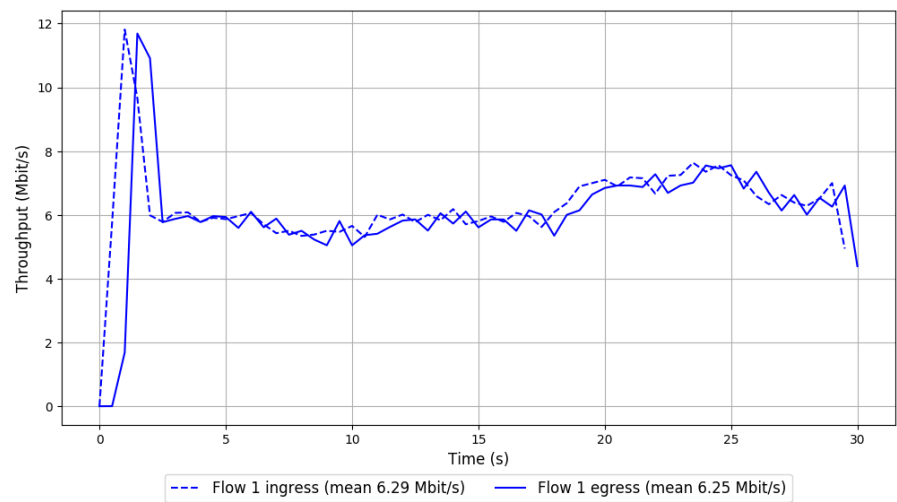
-- Flow 1:

Average throughput: 6.25 Mbit/s

95th percentile per-packet one-way delay: 175.796 ms

Loss rate: 2.35%

Run 1: Report of PCC-Expr — Data Link

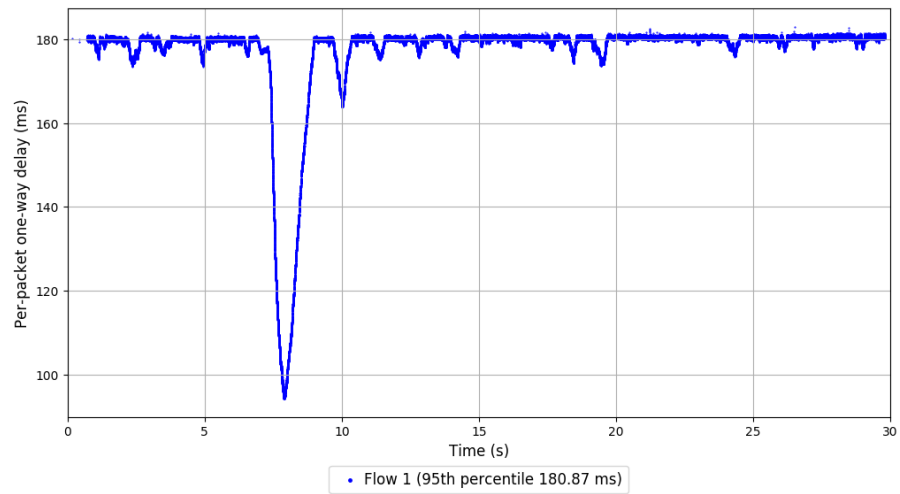
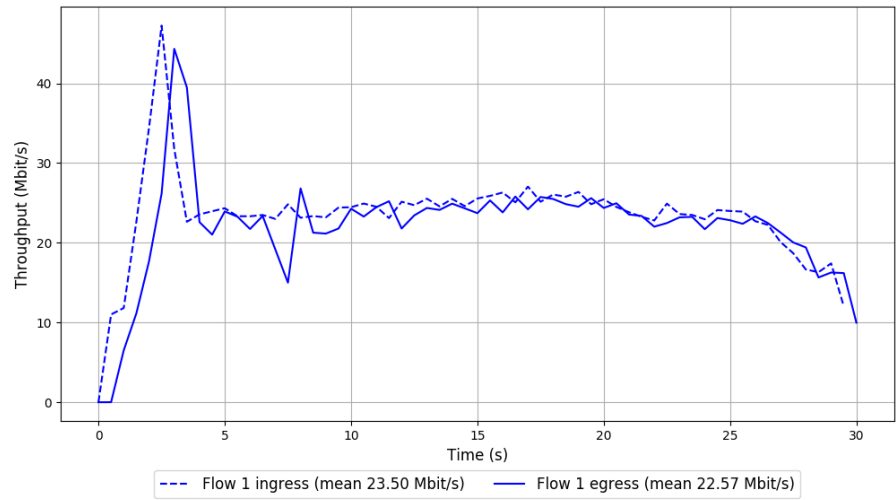


Run 2: Statistics of PCC-Expr

Start at: 2019-01-19 06:13:12
End at: 2019-01-19 06:13:42
Local clock offset: -13.741 ms
Remote clock offset: 41.549 ms

Below is generated by plot.py at 2019-01-19 09:50:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 22.57 Mbit/s
95th percentile per-packet one-way delay: 180.869 ms
Loss rate: 4.71%
-- Flow 1:
Average throughput: 22.57 Mbit/s
95th percentile per-packet one-way delay: 180.869 ms
Loss rate: 4.71%

Run 2: Report of PCC-Expr — Data Link

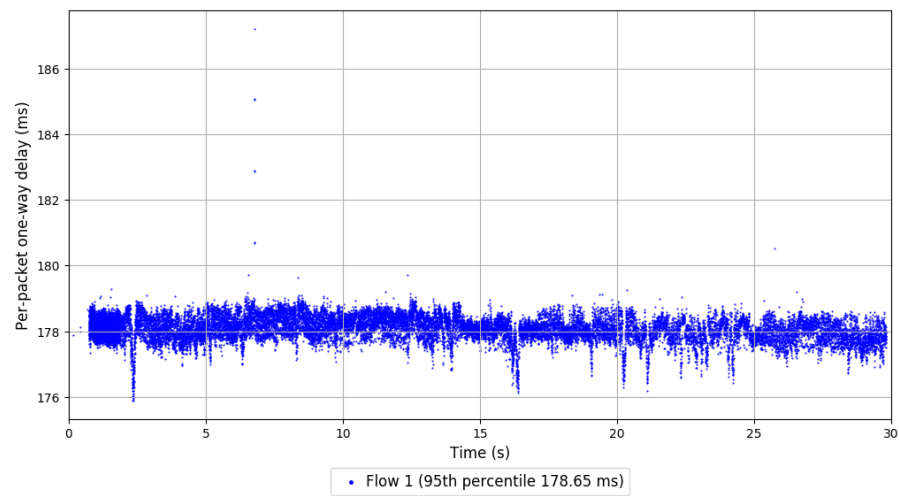
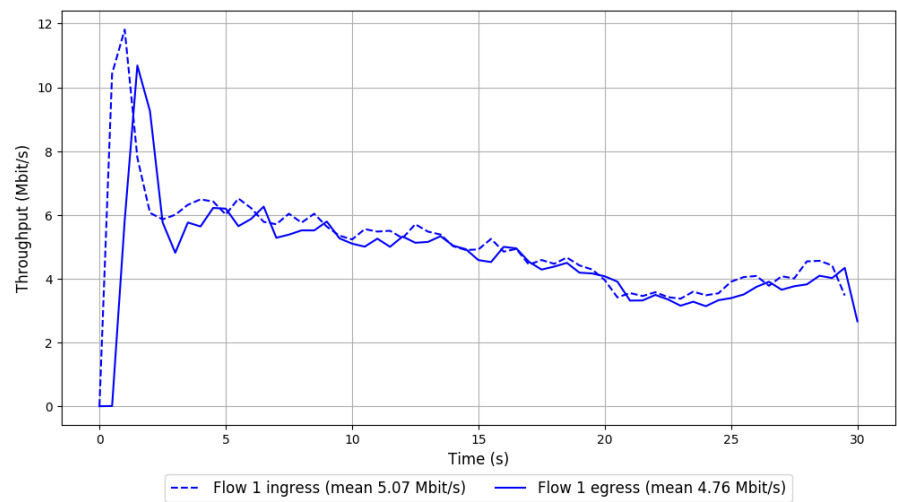


Run 3: Statistics of PCC-Expr

Start at: 2019-01-19 07:08:28
End at: 2019-01-19 07:08:58
Local clock offset: 5.034 ms
Remote clock offset: 54.429 ms

Below is generated by plot.py at 2019-01-19 09:50:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.76 Mbit/s
95th percentile per-packet one-way delay: 178.645 ms
Loss rate: 6.78%
-- Flow 1:
Average throughput: 4.76 Mbit/s
95th percentile per-packet one-way delay: 178.645 ms
Loss rate: 6.78%

Run 3: Report of PCC-Expr — Data Link

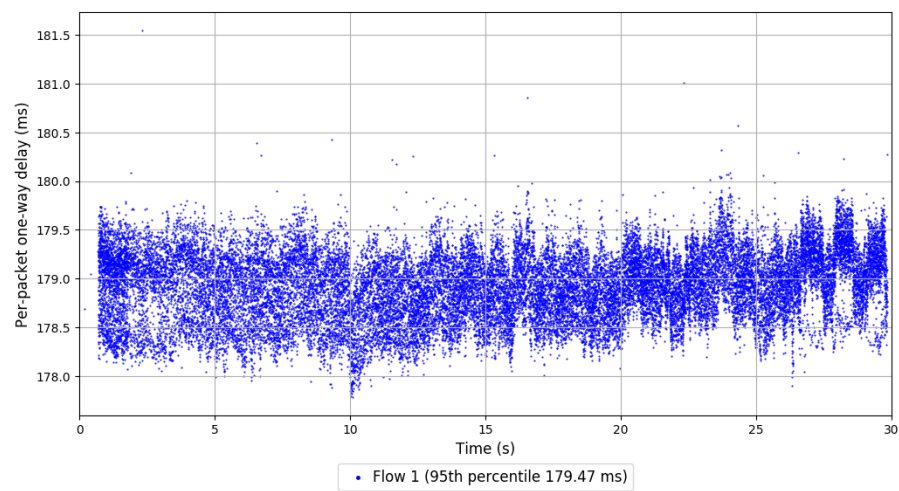
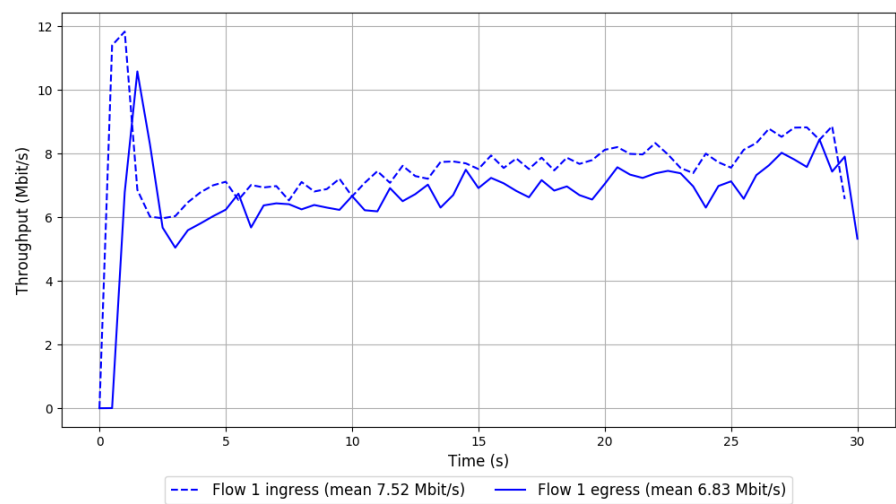


Run 4: Statistics of PCC-Expr

Start at: 2019-01-19 08:05:18
End at: 2019-01-19 08:05:48
Local clock offset: -7.904 ms
Remote clock offset: 48.408 ms

Below is generated by plot.py at 2019-01-19 09:50:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.83 Mbit/s
95th percentile per-packet one-way delay: 179.472 ms
Loss rate: 9.96%
-- Flow 1:
Average throughput: 6.83 Mbit/s
95th percentile per-packet one-way delay: 179.472 ms
Loss rate: 9.96%

Run 4: Report of PCC-Expr — Data Link

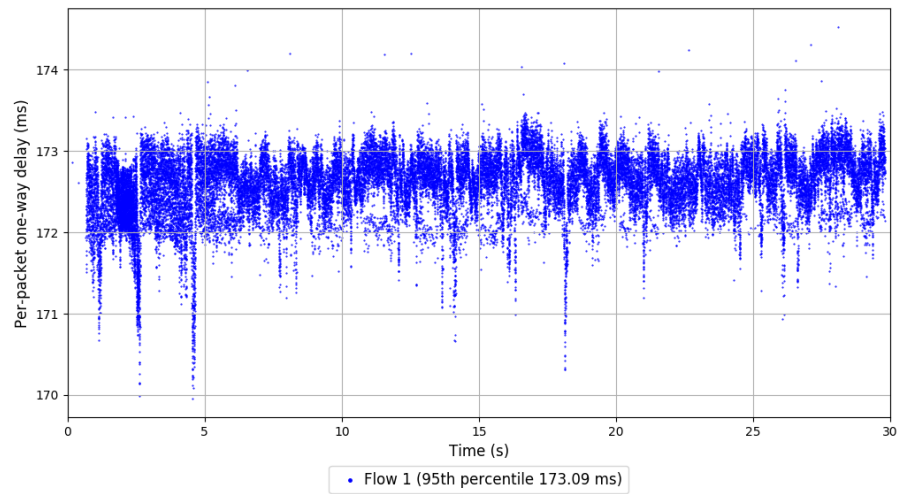
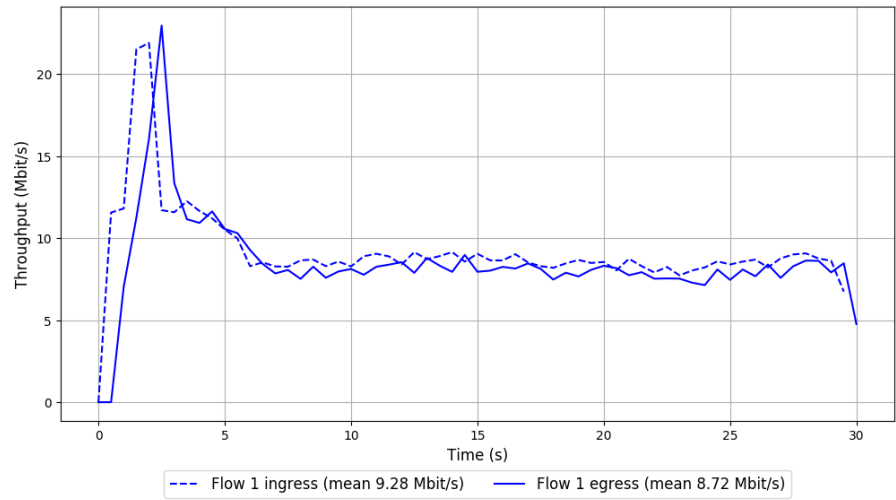


Run 5: Statistics of PCC-Expr

Start at: 2019-01-19 08:55:32
End at: 2019-01-19 08:56:02
Local clock offset: 1.042 ms
Remote clock offset: 51.028 ms

Below is generated by plot.py at 2019-01-19 09:50:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 8.72 Mbit/s
95th percentile per-packet one-way delay: 173.087 ms
Loss rate: 6.86%
-- Flow 1:
Average throughput: 8.72 Mbit/s
95th percentile per-packet one-way delay: 173.087 ms
Loss rate: 6.86%

Run 5: Report of PCC-Expr — Data Link

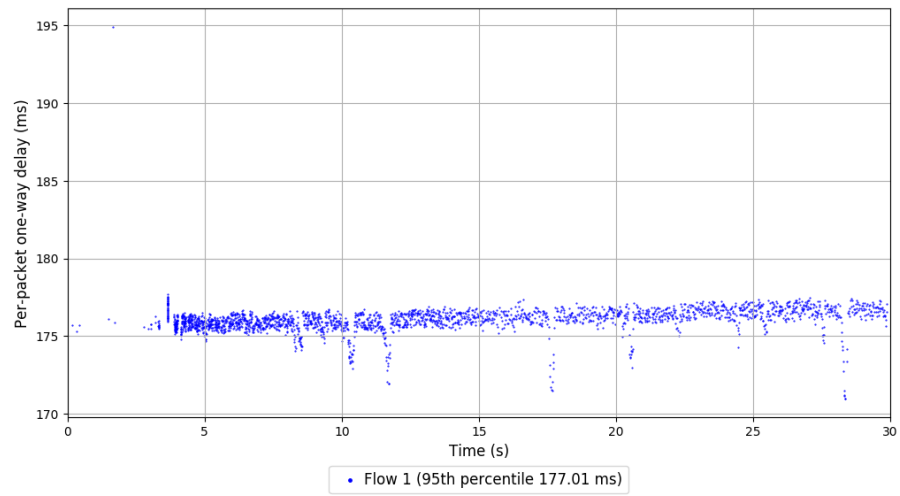
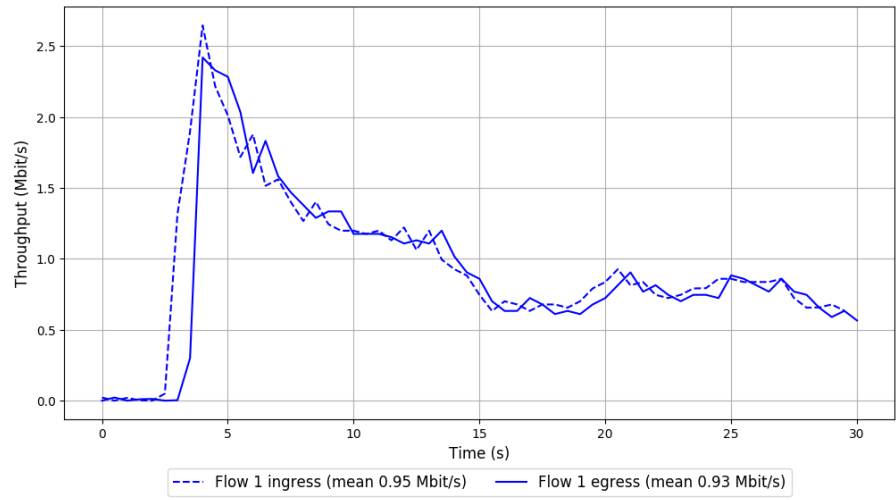


Run 1: Statistics of QUIC Cubic

Start at: 2019-01-19 06:00:42
End at: 2019-01-19 06:01:12
Local clock offset: -9.228 ms
Remote clock offset: 34.947 ms

Below is generated by plot.py at 2019-01-19 09:50:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 177.010 ms
Loss rate: 3.38%
-- Flow 1:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 177.010 ms
Loss rate: 3.38%

Run 1: Report of QUIC Cubic — Data Link

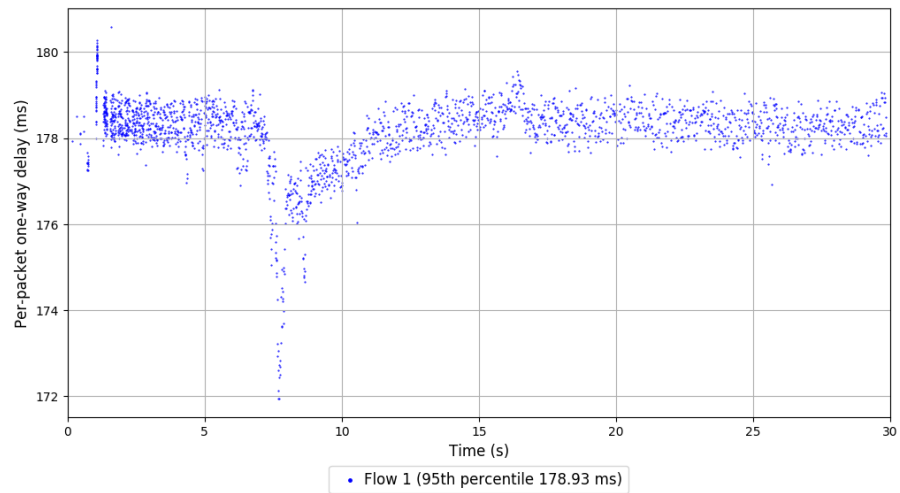
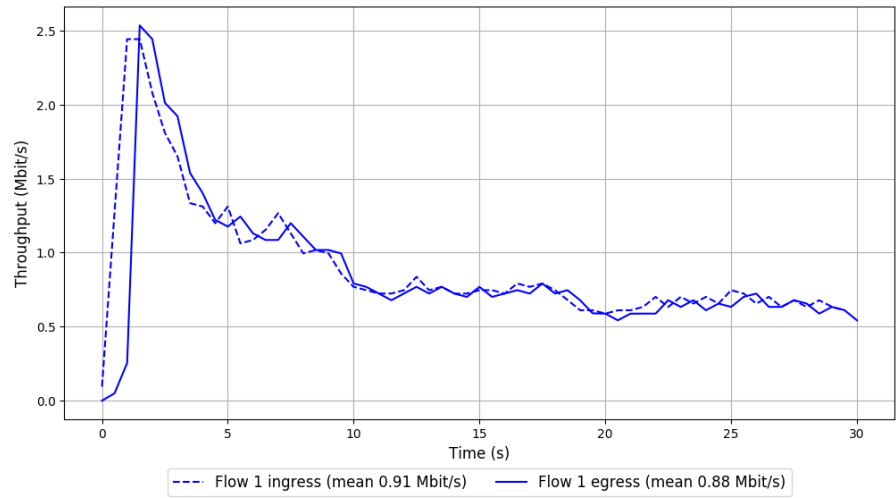


Run 2: Statistics of QUIC Cubic

Start at: 2019-01-19 06:54:53
End at: 2019-01-19 06:55:23
Local clock offset: -1.288 ms
Remote clock offset: 51.822 ms

Below is generated by plot.py at 2019-01-19 09:50:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.88 Mbit/s
95th percentile per-packet one-way delay: 178.933 ms
Loss rate: 4.11%
-- Flow 1:
Average throughput: 0.88 Mbit/s
95th percentile per-packet one-way delay: 178.933 ms
Loss rate: 4.11%

Run 2: Report of QUIC Cubic — Data Link

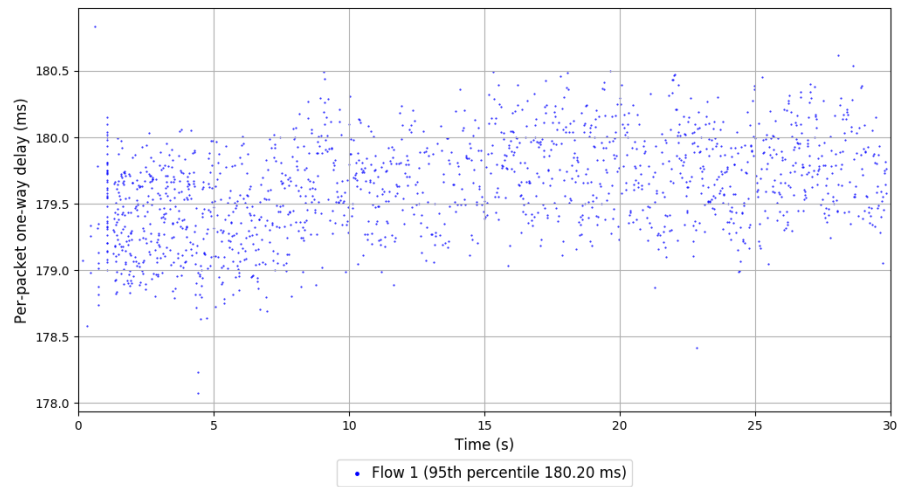
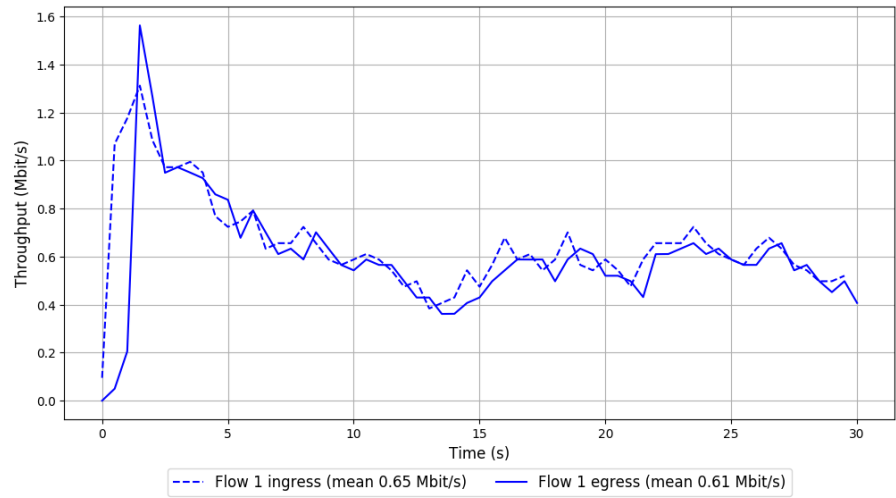


Run 3: Statistics of QUIC Cubic

Start at: 2019-01-19 07:47:57
End at: 2019-01-19 07:48:27
Local clock offset: 0.188 ms
Remote clock offset: 48.183 ms

Below is generated by plot.py at 2019-01-19 09:50:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 180.202 ms
Loss rate: 6.28%
-- Flow 1:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 180.202 ms
Loss rate: 6.28%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-01-19 08:42:42

End at: 2019-01-19 08:43:12

Local clock offset: 0.708 ms

Remote clock offset: 44.301 ms

Below is generated by plot.py at 2019-01-19 09:50:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.81 Mbit/s

95th percentile per-packet one-way delay: 179.552 ms

Loss rate: 3.99%

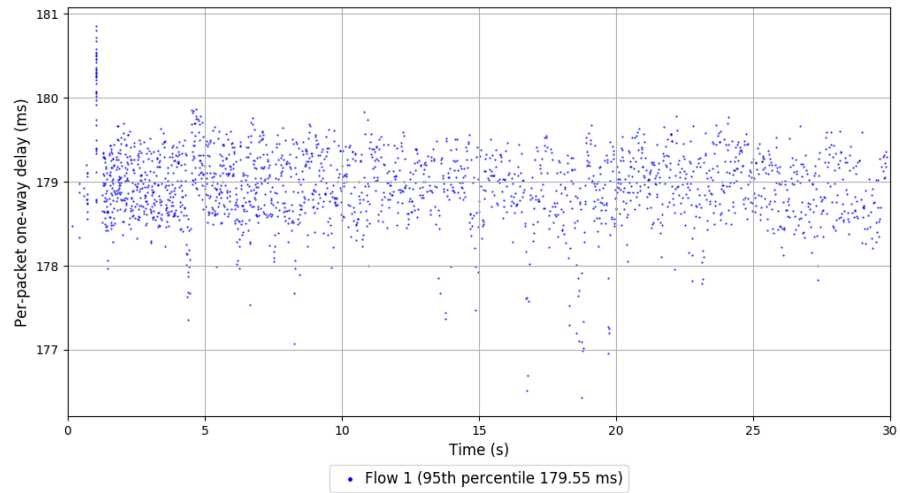
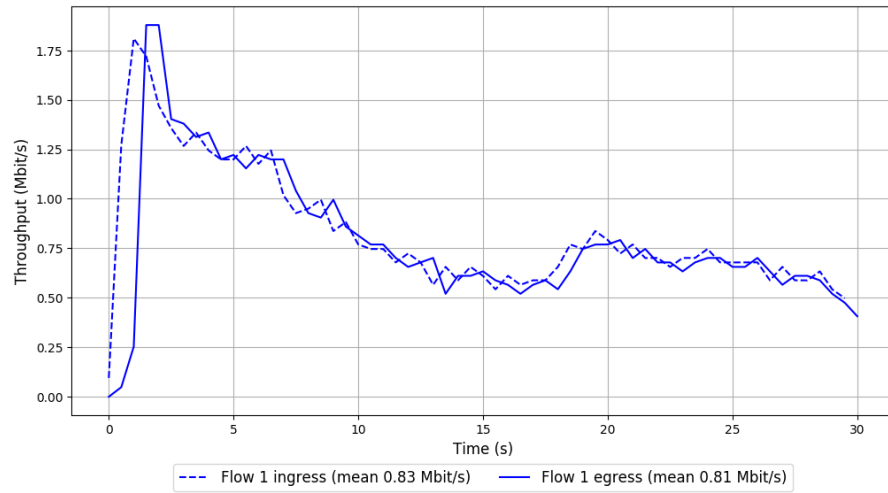
-- Flow 1:

Average throughput: 0.81 Mbit/s

95th percentile per-packet one-way delay: 179.552 ms

Loss rate: 3.99%

Run 4: Report of QUIC Cubic — Data Link

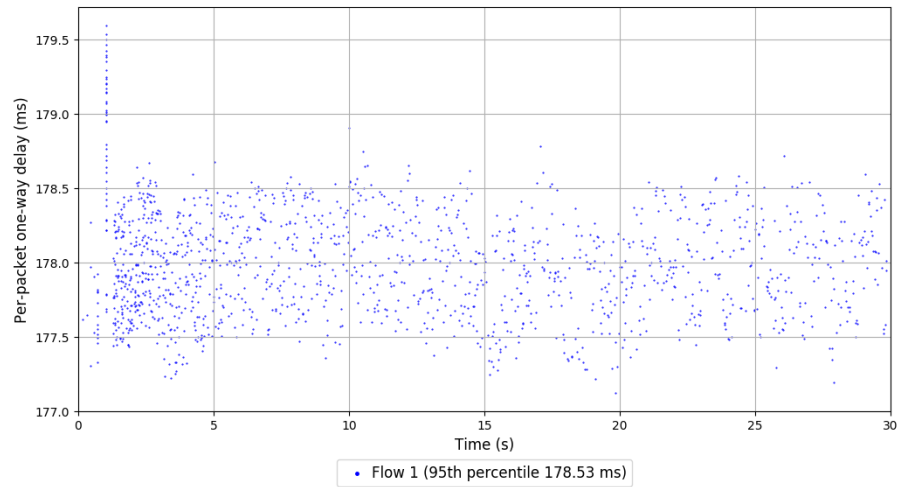
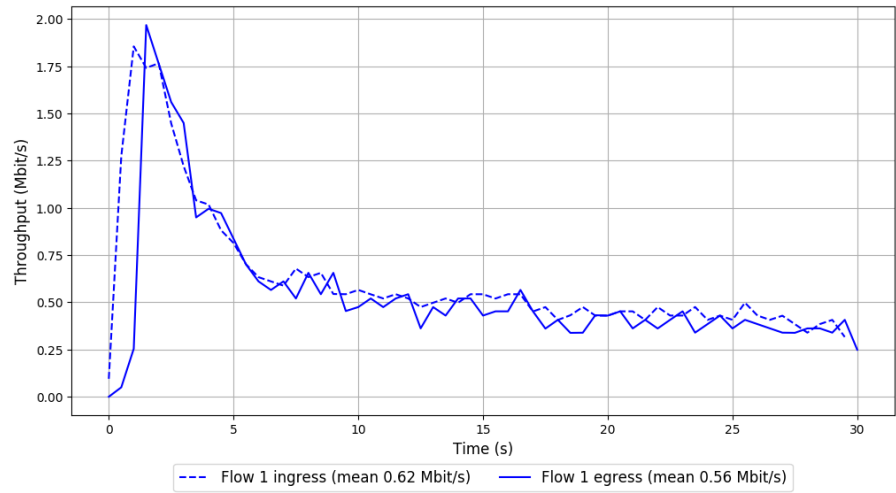


Run 5: Statistics of QUIC Cubic

Start at: 2019-01-19 09:43:23
End at: 2019-01-19 09:43:53
Local clock offset: -8.806 ms
Remote clock offset: 41.054 ms

Below is generated by plot.py at 2019-01-19 09:50:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 178.527 ms
Loss rate: 10.89%
-- Flow 1:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 178.527 ms
Loss rate: 10.89%

Run 5: Report of QUIC Cubic — Data Link

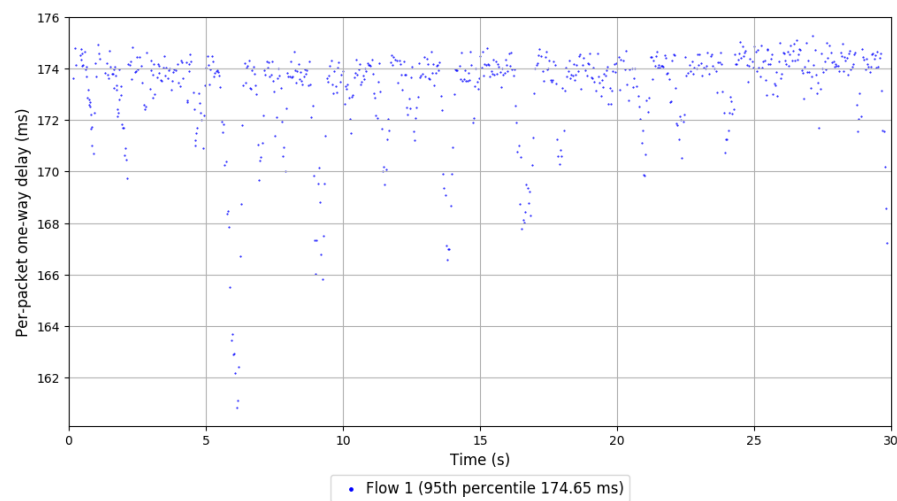
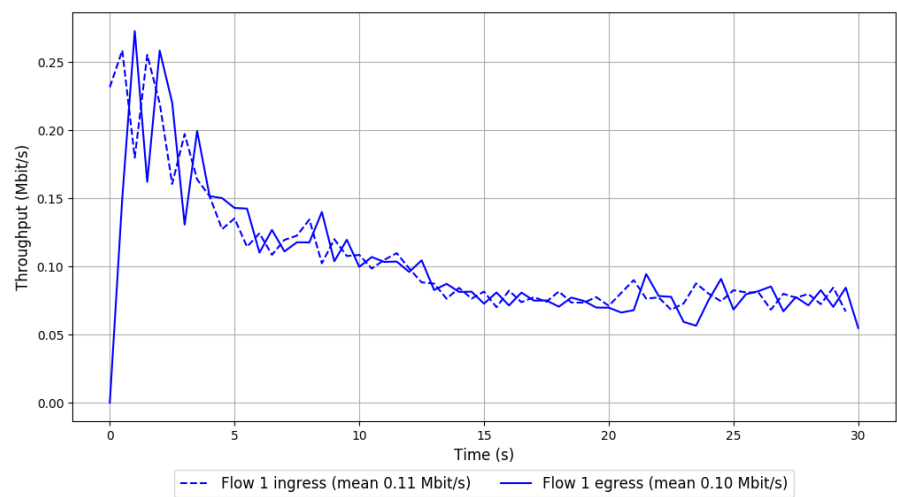


Run 1: Statistics of SCReAM

Start at: 2019-01-19 05:23:53
End at: 2019-01-19 05:24:23
Local clock offset: 3.426 ms
Remote clock offset: 28.976 ms

Below is generated by plot.py at 2019-01-19 09:50:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 174.651 ms
Loss rate: 3.17%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 174.651 ms
Loss rate: 3.17%

Run 1: Report of SReAM — Data Link

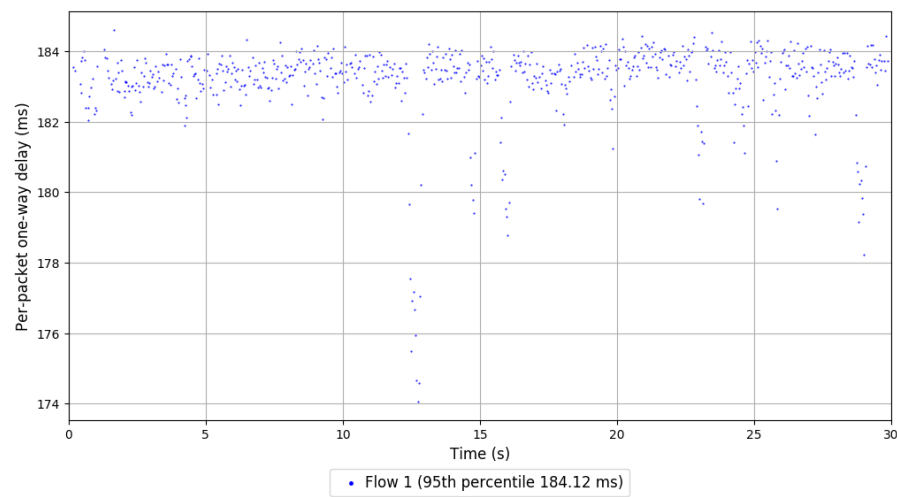
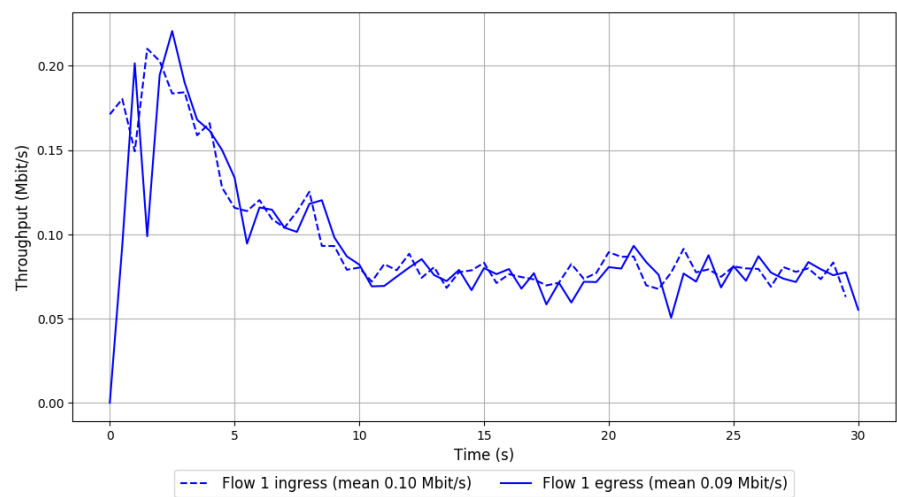


Run 2: Statistics of SCReAM

Start at: 2019-01-19 06:09:37
End at: 2019-01-19 06:10:07
Local clock offset: -12.845 ms
Remote clock offset: 36.709 ms

Below is generated by plot.py at 2019-01-19 09:50:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 184.117 ms
Loss rate: 4.48%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 184.117 ms
Loss rate: 4.48%

Run 2: Report of SReAM — Data Link

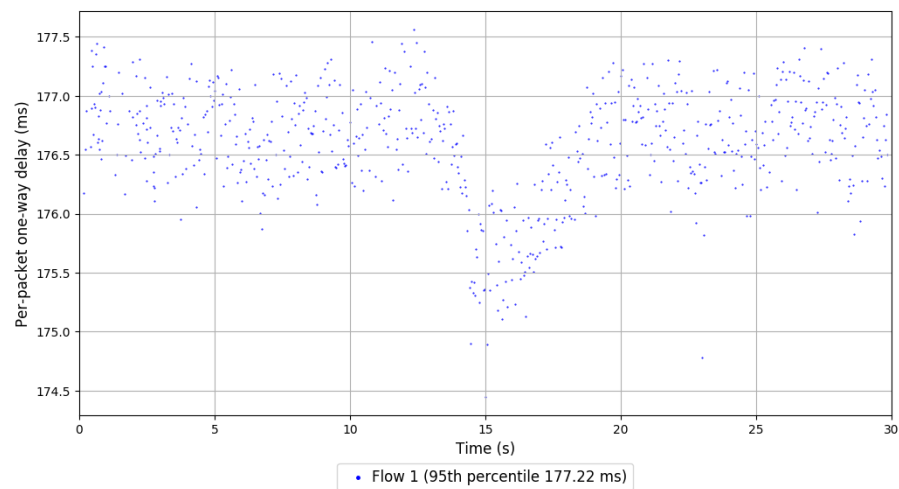
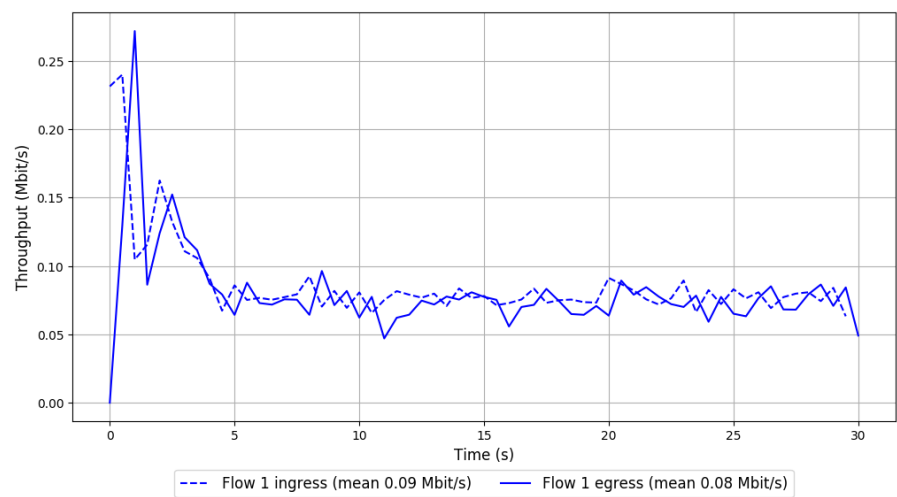


Run 3: Statistics of SCReAM

Start at: 2019-01-19 07:04:46
End at: 2019-01-19 07:05:16
Local clock offset: 3.779 ms
Remote clock offset: 55.421 ms

Below is generated by plot.py at 2019-01-19 09:50:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 177.219 ms
Loss rate: 6.81%
-- Flow 1:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 177.219 ms
Loss rate: 6.81%

Run 3: Report of SReAM — Data Link

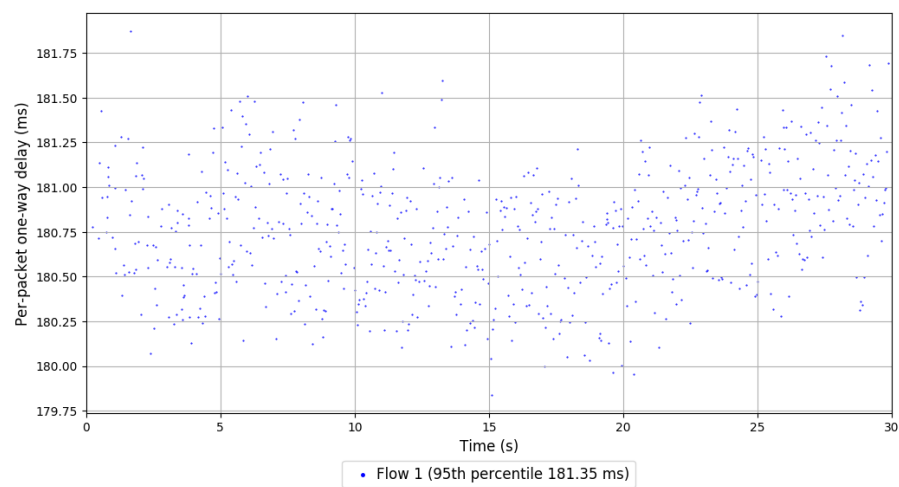
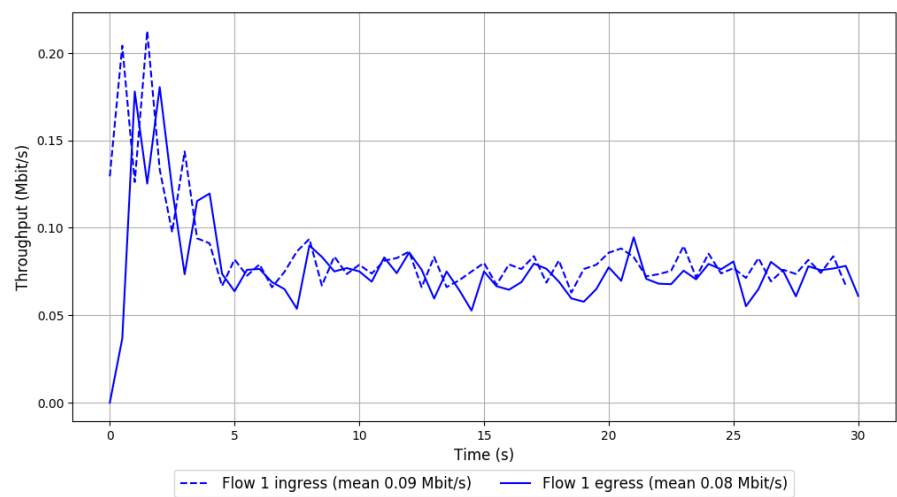


Run 4: Statistics of SCReAM

Start at: 2019-01-19 08:00:41
End at: 2019-01-19 08:01:11
Local clock offset: -6.912 ms
Remote clock offset: 47.095 ms

Below is generated by plot.py at 2019-01-19 09:50:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 181.346 ms
Loss rate: 8.97%
-- Flow 1:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 181.346 ms
Loss rate: 8.97%

Run 4: Report of SReAM — Data Link

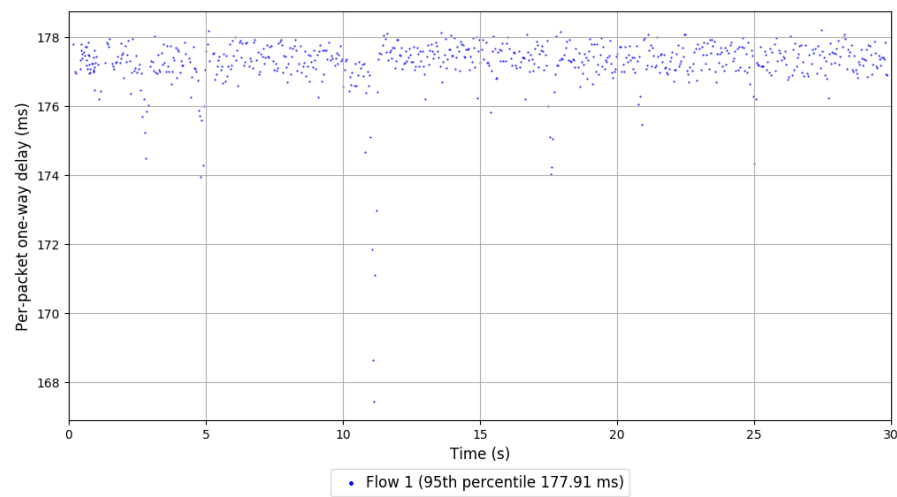
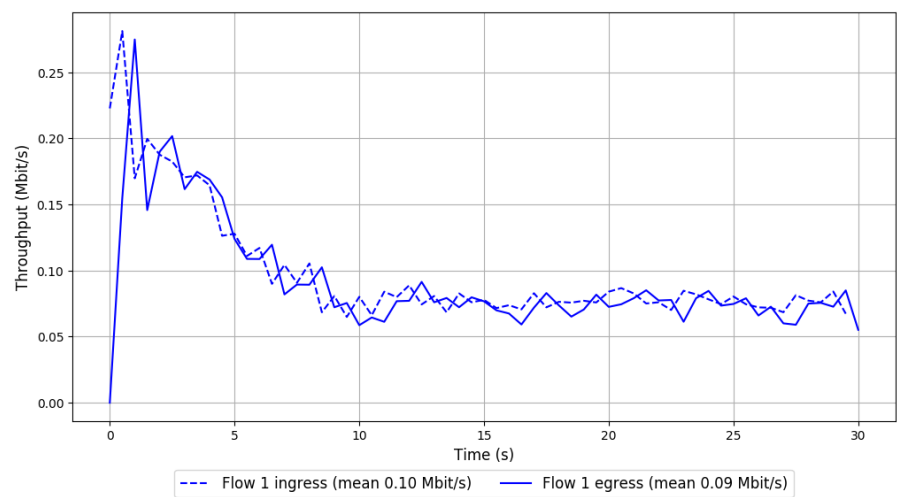


Run 5: Statistics of SCReAM

Start at: 2019-01-19 08:51:52
End at: 2019-01-19 08:52:22
Local clock offset: 1.242 ms
Remote clock offset: 45.767 ms

Below is generated by plot.py at 2019-01-19 09:50:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 177.914 ms
Loss rate: 5.49%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 177.914 ms
Loss rate: 5.49%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

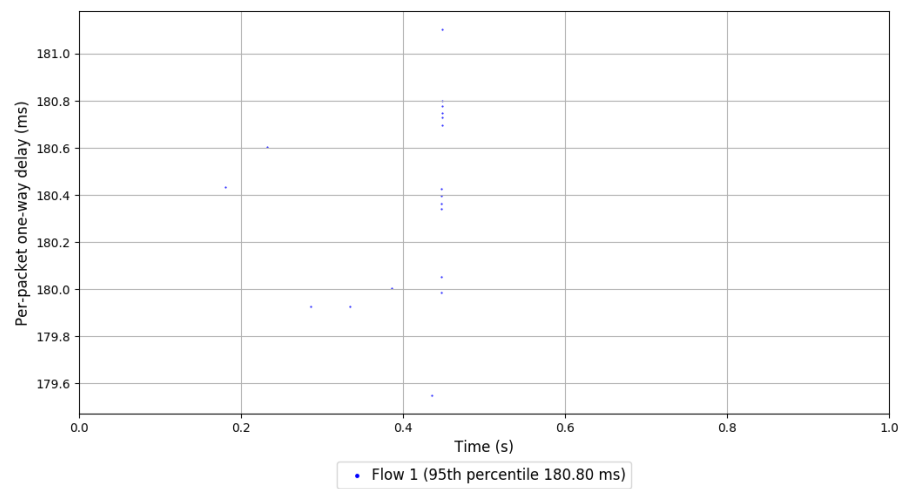
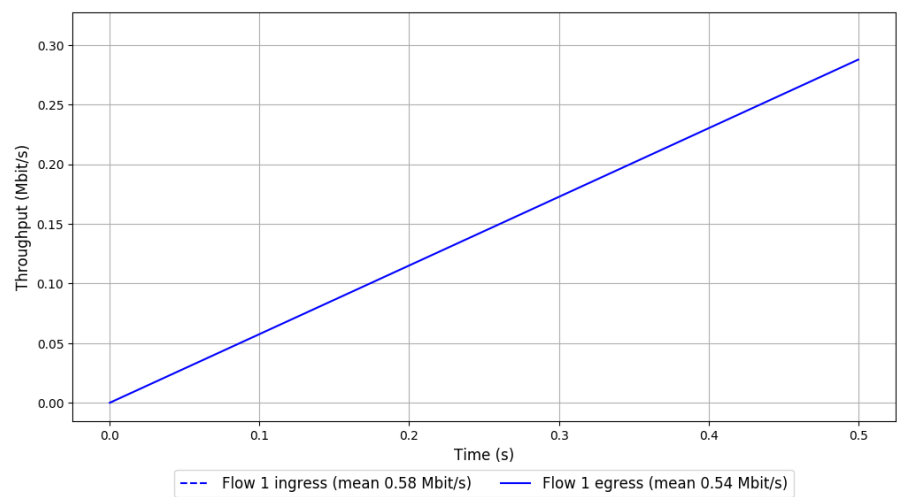
Start at: 2019-01-19 05:47:39

End at: 2019-01-19 05:48:09

Local clock offset: 4.848 ms

Remote clock offset: 29.161 ms

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

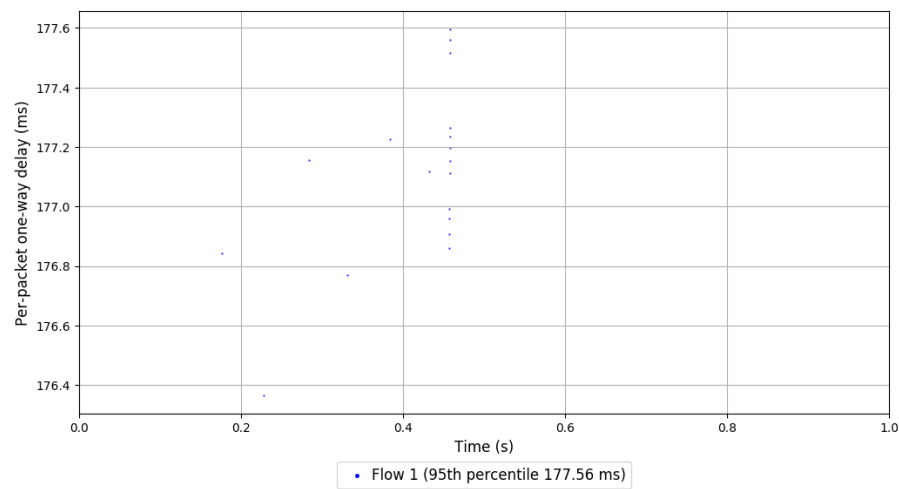
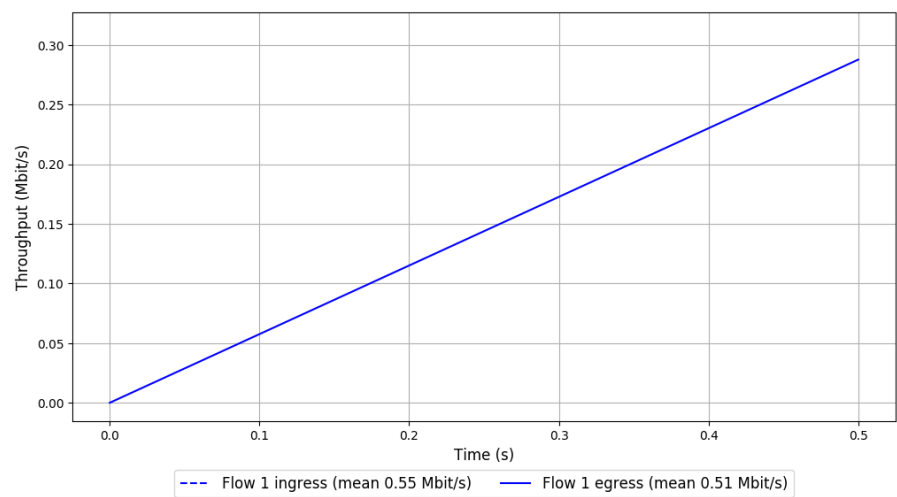
Start at: 2019-01-19 06:39:20

End at: 2019-01-19 06:39:50

Local clock offset: -10.146 ms

Remote clock offset: 52.279 ms

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

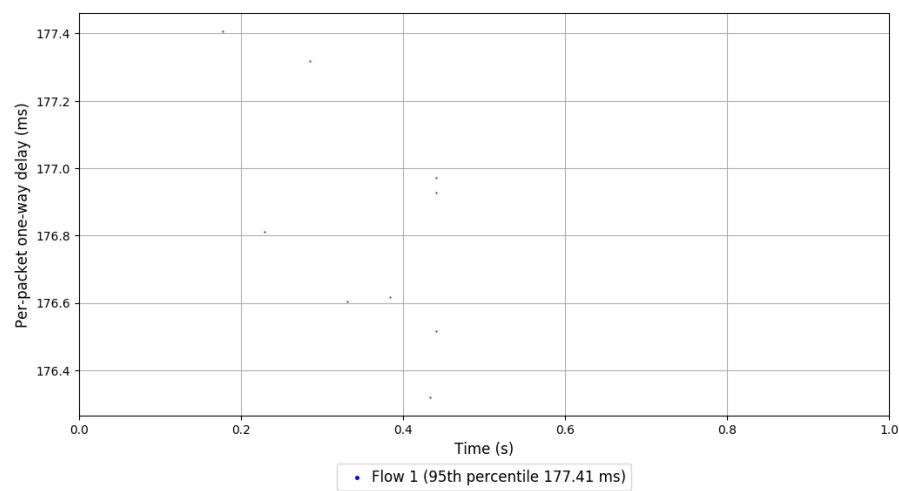
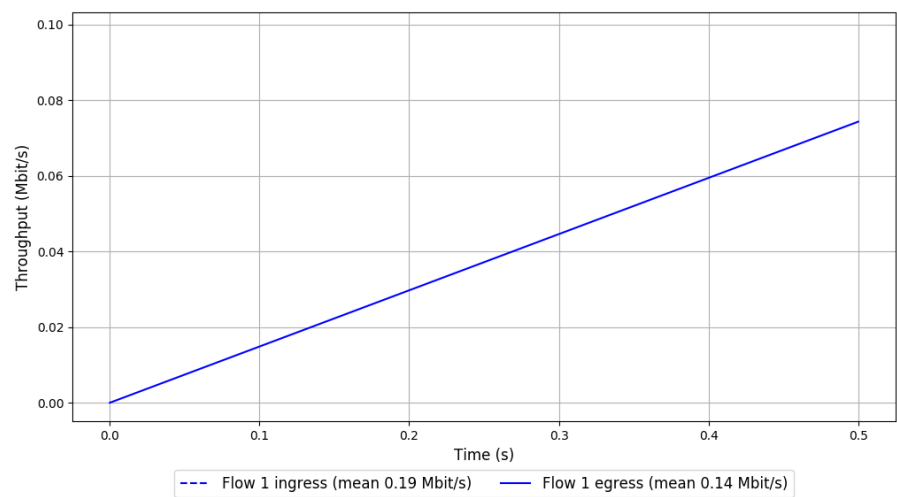
Start at: 2019-01-19 07:32:27

End at: 2019-01-19 07:32:57

Local clock offset: 1.408 ms

Remote clock offset: 48.082 ms

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

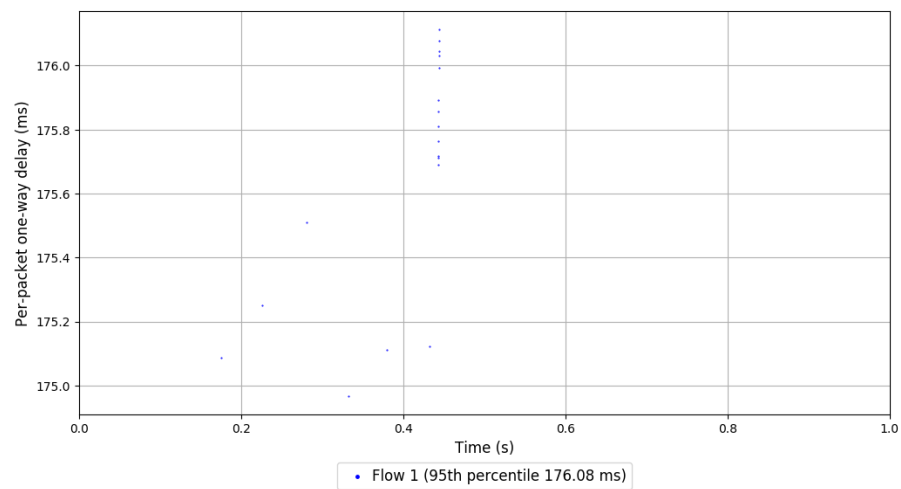
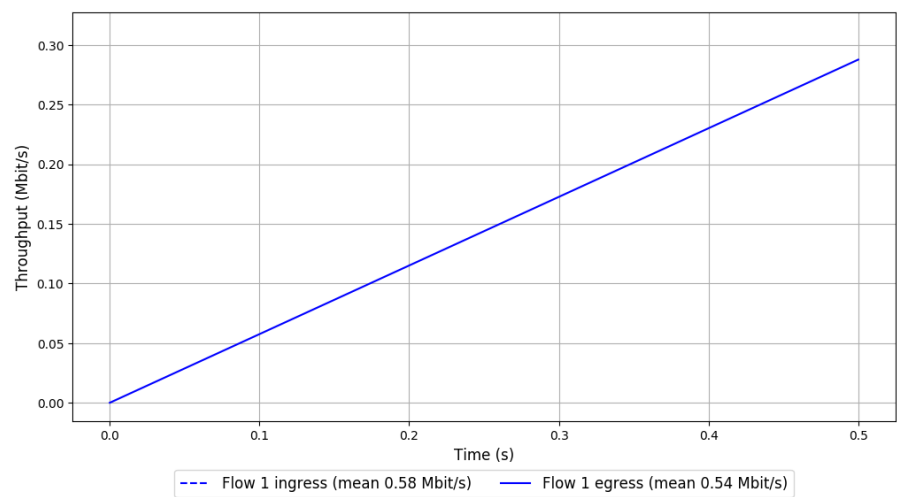
Start at: 2019-01-19 08:26:02

End at: 2019-01-19 08:26:32

Local clock offset: -3.037 ms

Remote clock offset: 49.266 ms

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

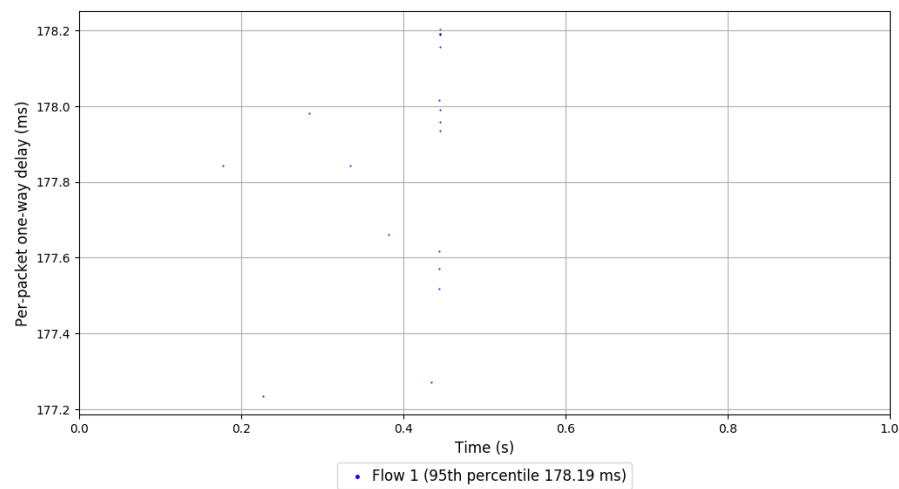
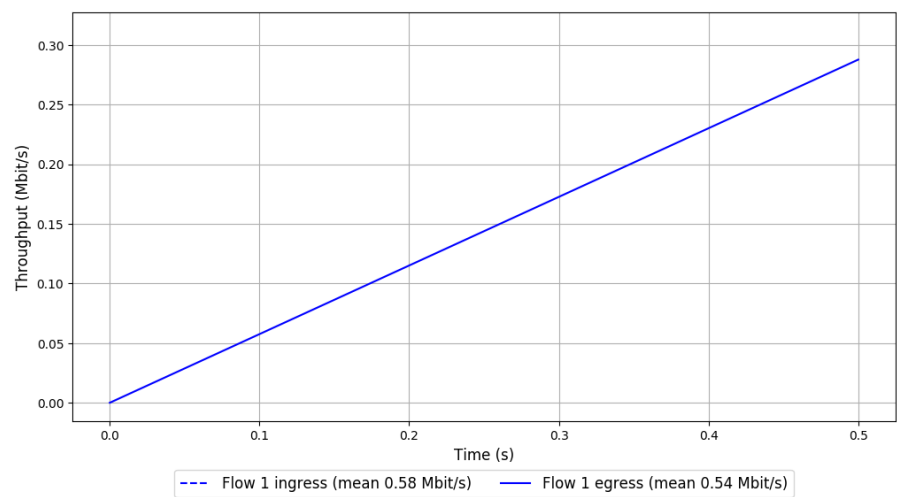
Start at: 2019-01-19 09:28:16

End at: 2019-01-19 09:28:46

Local clock offset: -5.403 ms

Remote clock offset: 46.822 ms

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-01-19 05:33:25

End at: 2019-01-19 05:33:55

Local clock offset: 5.004 ms

Remote clock offset: 30.424 ms

Below is generated by plot.py at 2019-01-19 09:50:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.26 Mbit/s

95th percentile per-packet one-way delay: 184.096 ms

Loss rate: 6.83%

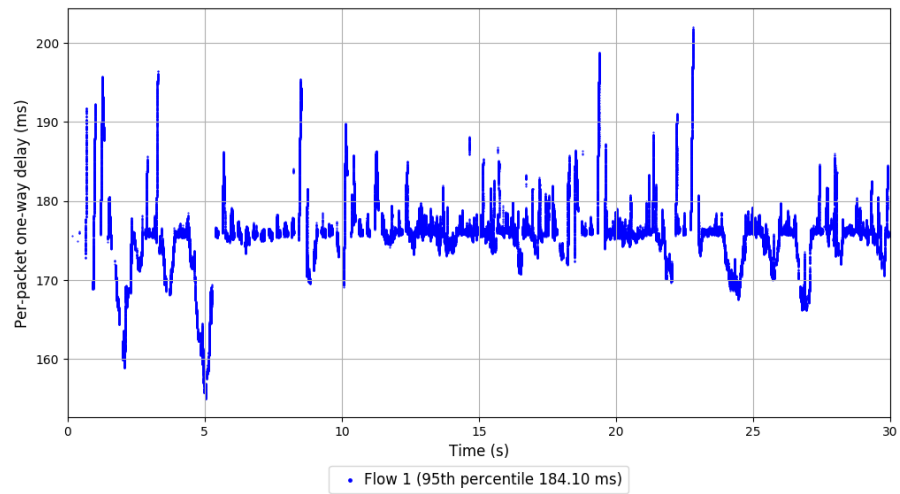
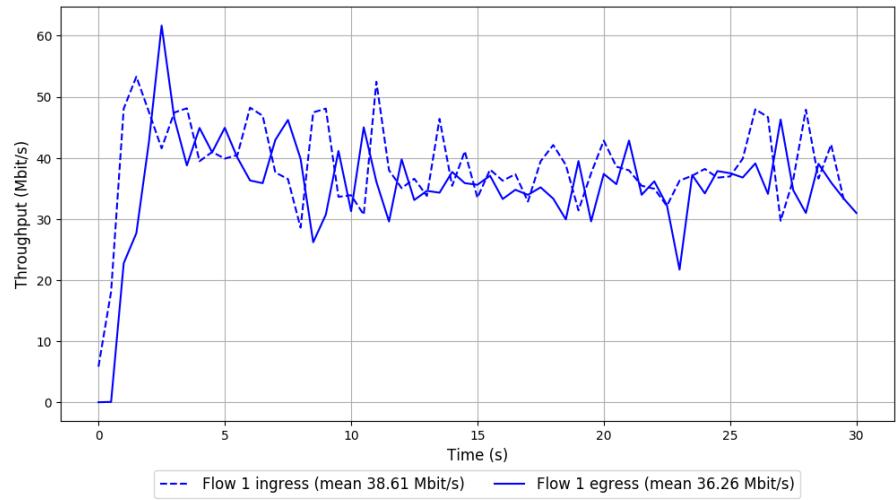
-- Flow 1:

Average throughput: 36.26 Mbit/s

95th percentile per-packet one-way delay: 184.096 ms

Loss rate: 6.83%

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



Run 2: Statistics of TaoVA-100x

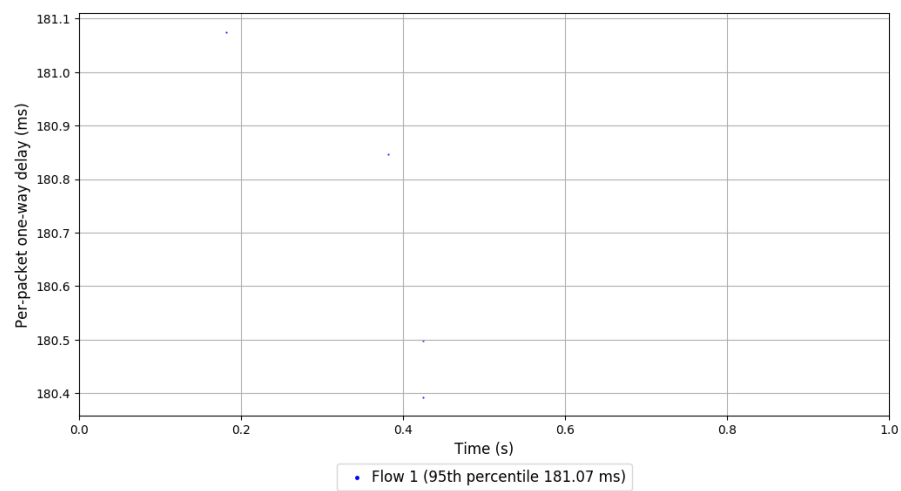
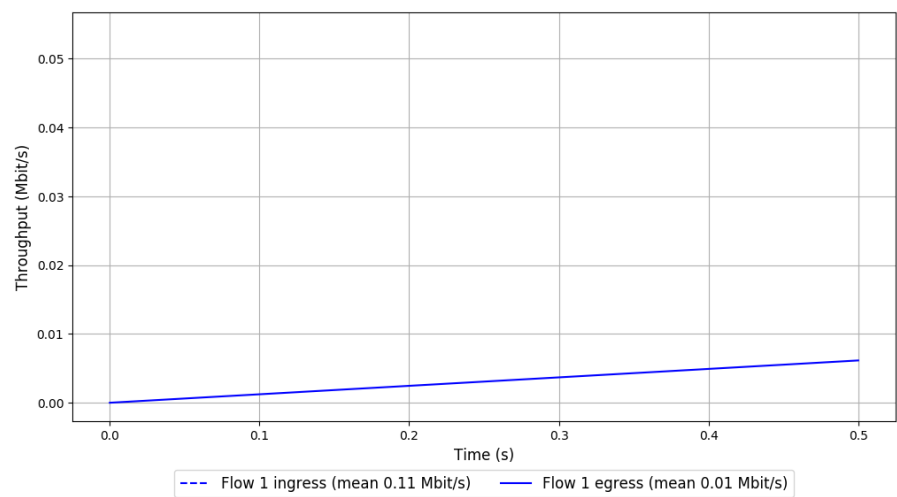
Start at: 2019-01-19 06:26:30

End at: 2019-01-19 06:27:00

Local clock offset: -11.033 ms

Remote clock offset: 48.626 ms

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

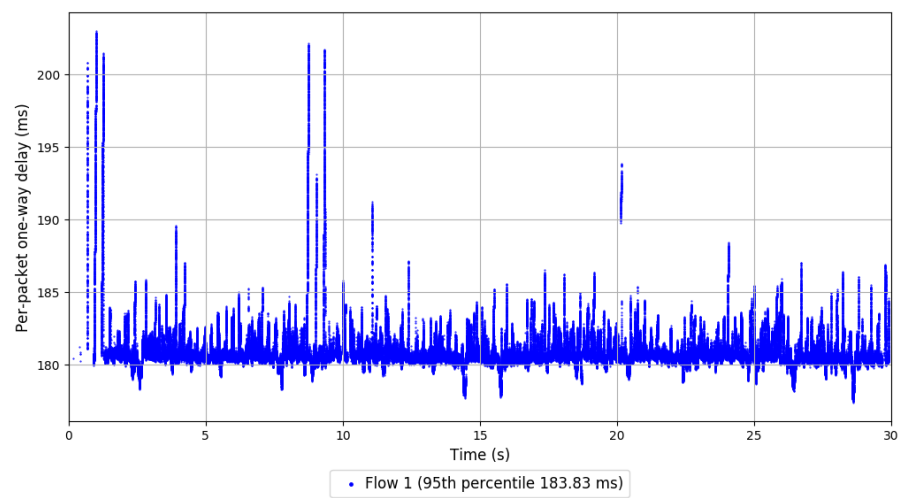
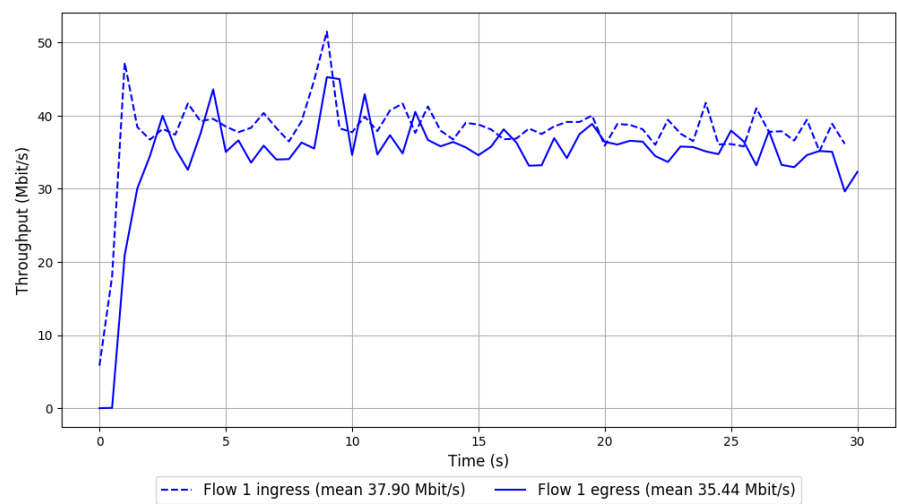


Run 3: Statistics of TaoVA-100x

Start at: 2019-01-19 07:15:41
End at: 2019-01-19 07:16:11
Local clock offset: 6.636 ms
Remote clock offset: 47.789 ms

Below is generated by plot.py at 2019-01-19 09:50:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 35.44 Mbit/s
95th percentile per-packet one-way delay: 183.834 ms
Loss rate: 7.28%
-- Flow 1:
Average throughput: 35.44 Mbit/s
95th percentile per-packet one-way delay: 183.834 ms
Loss rate: 7.28%

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

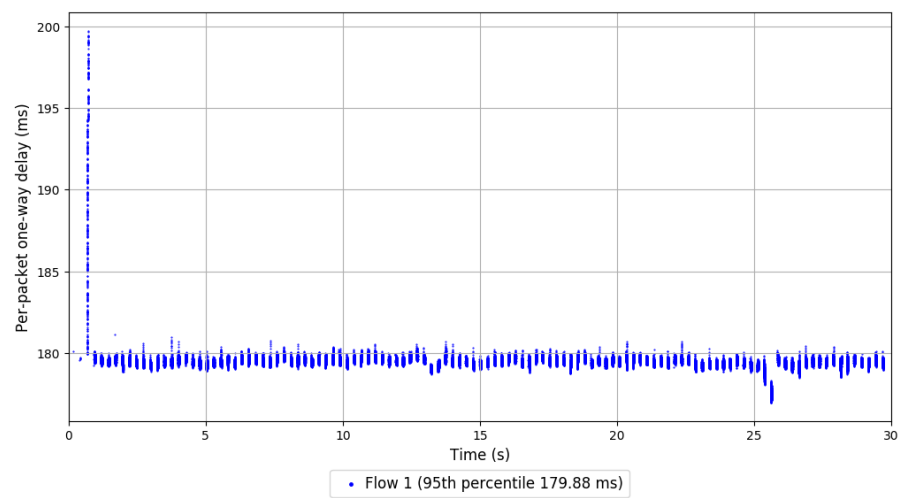
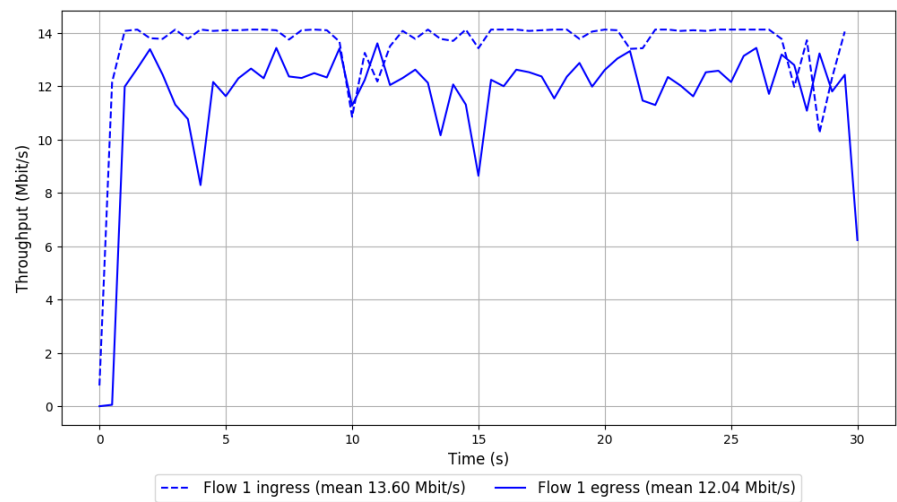


Run 4: Statistics of TaoVA-100x

Start at: 2019-01-19 08:15:06
End at: 2019-01-19 08:15:36
Local clock offset: -9.692 ms
Remote clock offset: 48.268 ms

Below is generated by plot.py at 2019-01-19 09:50:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.04 Mbit/s
95th percentile per-packet one-way delay: 179.881 ms
Loss rate: 12.28%
-- Flow 1:
Average throughput: 12.04 Mbit/s
95th percentile per-packet one-way delay: 179.881 ms
Loss rate: 12.28%

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



Run 5: Statistics of TaoVA-100x

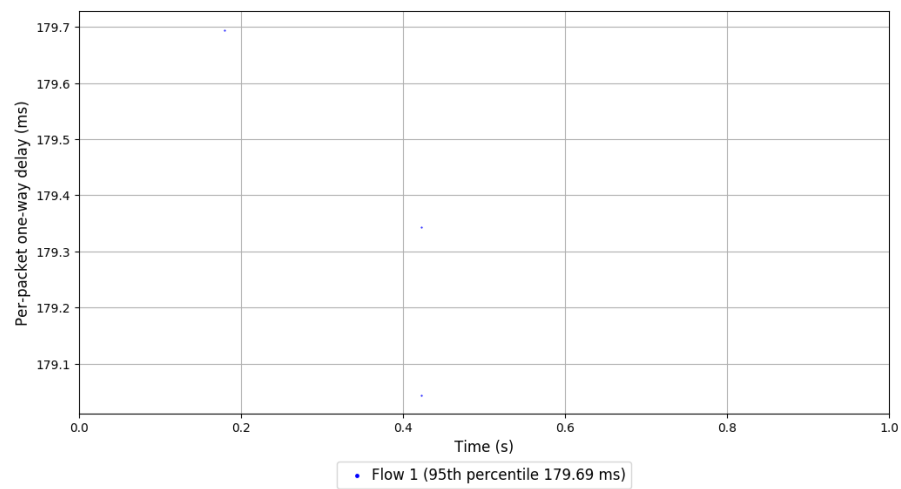
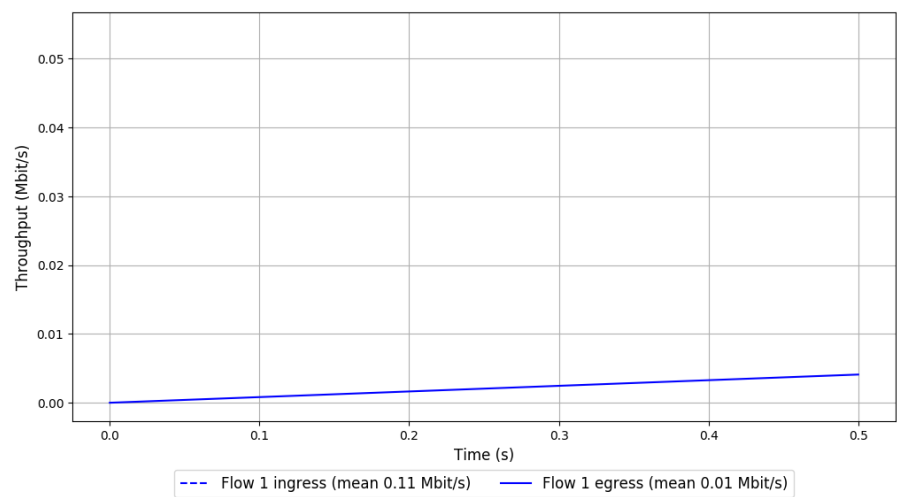
Start at: 2019-01-19 09:09:55

End at: 2019-01-19 09:10:25

Local clock offset: 1.651 ms

Remote clock offset: 46.93 ms

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

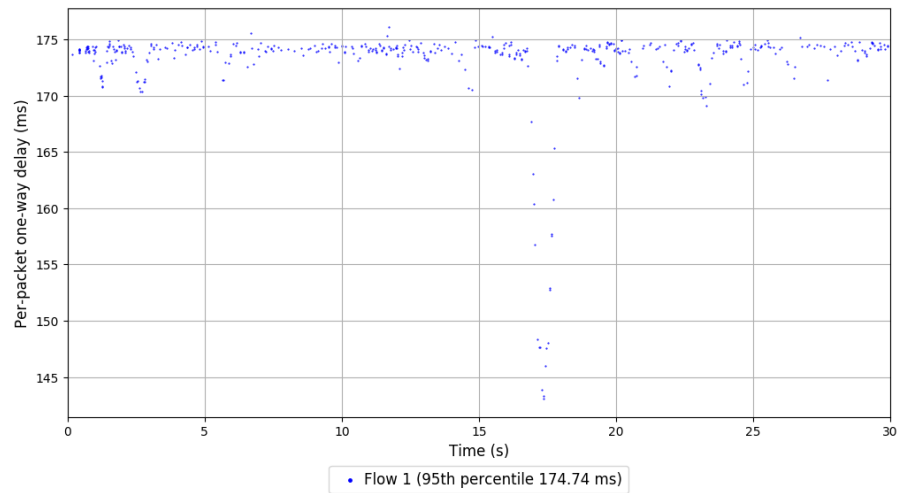
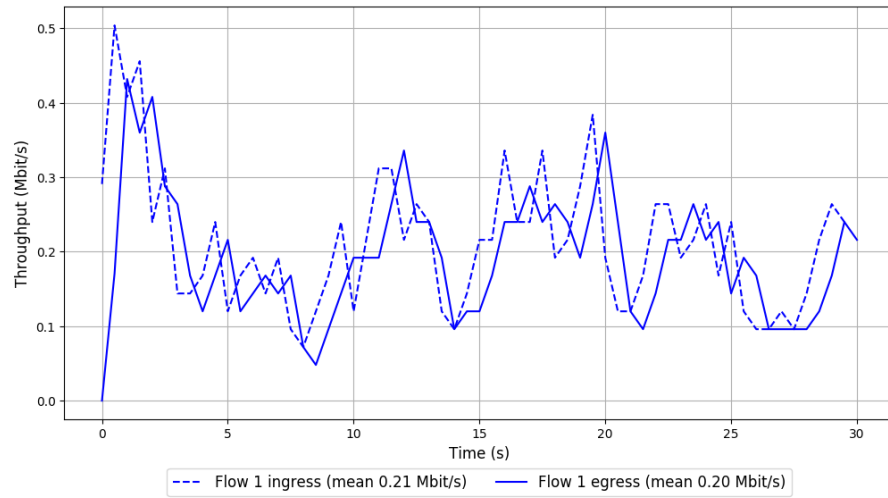


Run 1: Statistics of TCP Vegas

Start at: 2019-01-19 05:59:30
End at: 2019-01-19 06:00:00
Local clock offset: -8.451 ms
Remote clock offset: 35.866 ms

Below is generated by plot.py at 2019-01-19 09:50:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 174.736 ms
Loss rate: 7.55%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 174.736 ms
Loss rate: 7.55%

Run 1: Report of TCP Vegas — Data Link

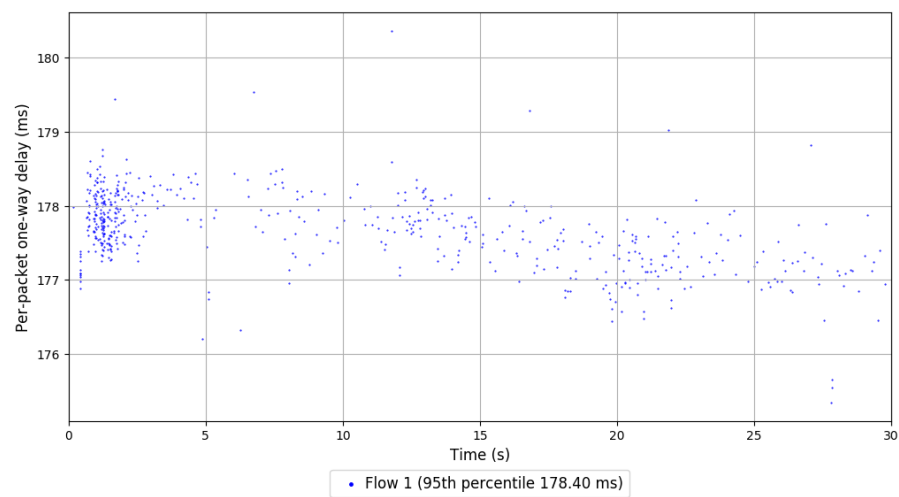
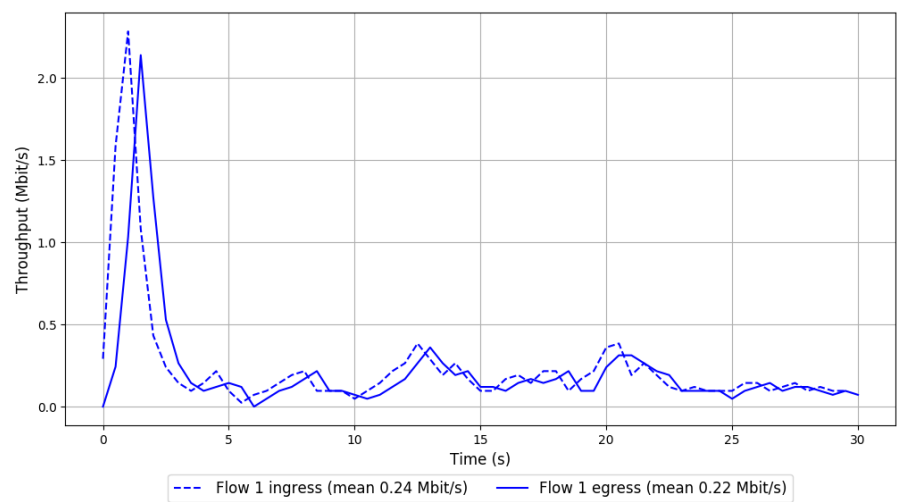


Run 2: Statistics of TCP Vegas

Start at: 2019-01-19 06:53:39
End at: 2019-01-19 06:54:09
Local clock offset: -2.244 ms
Remote clock offset: 52.429 ms

Below is generated by plot.py at 2019-01-19 09:50:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 178.395 ms
Loss rate: 9.01%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 178.395 ms
Loss rate: 9.01%

Run 2: Report of TCP Vegas — Data Link

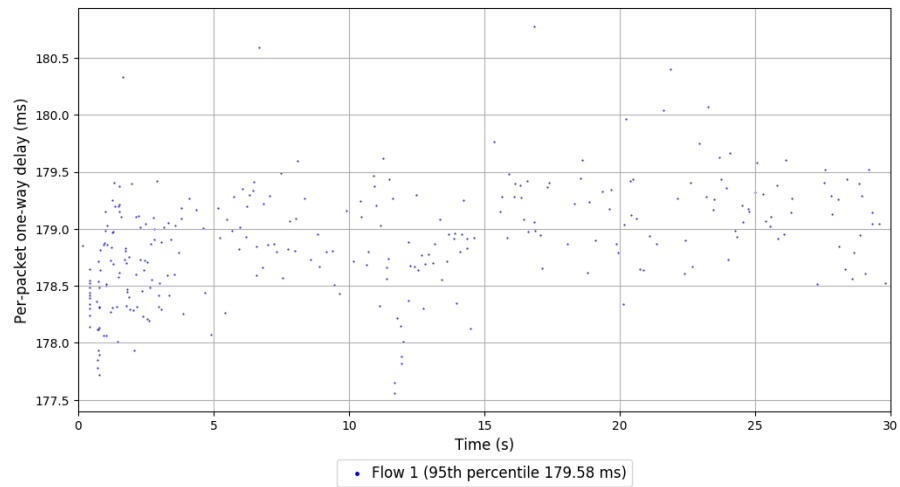
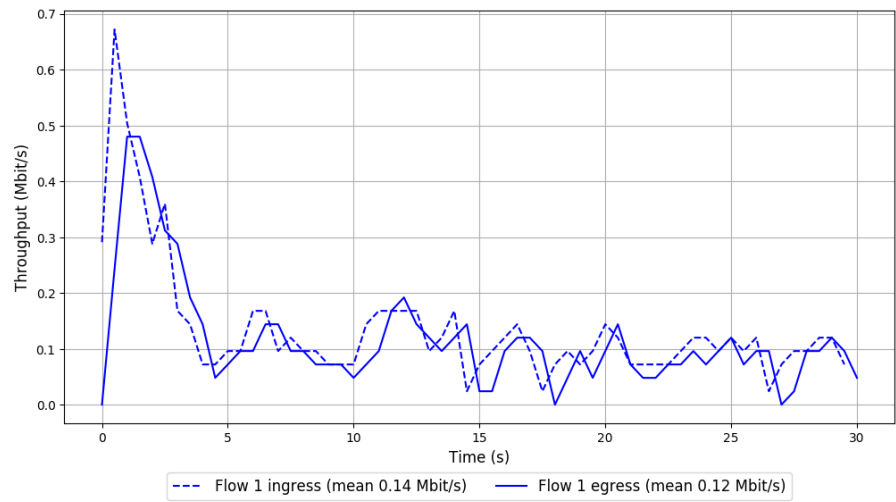


Run 3: Statistics of TCP Vegas

Start at: 2019-01-19 07:46:44
End at: 2019-01-19 07:47:14
Local clock offset: 1.094 ms
Remote clock offset: 48.522 ms

Below is generated by plot.py at 2019-01-19 09:50:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 179.584 ms
Loss rate: 12.94%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 179.584 ms
Loss rate: 12.94%

Run 3: Report of TCP Vegas — Data Link

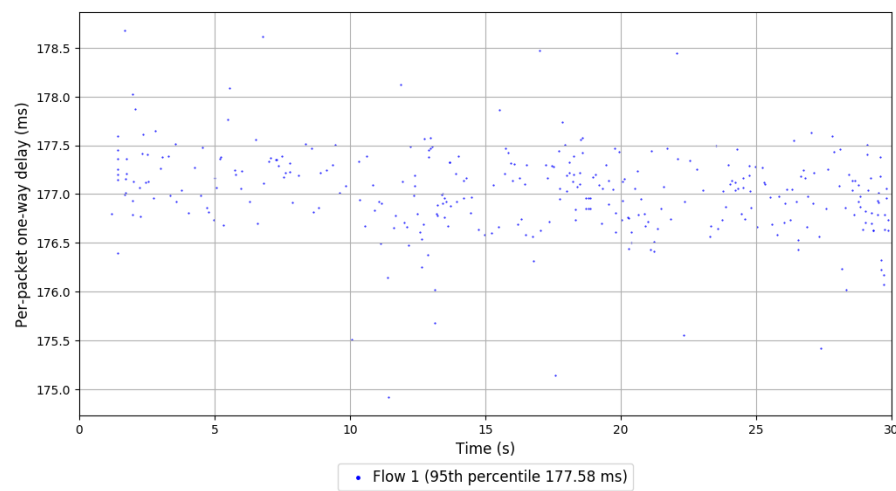
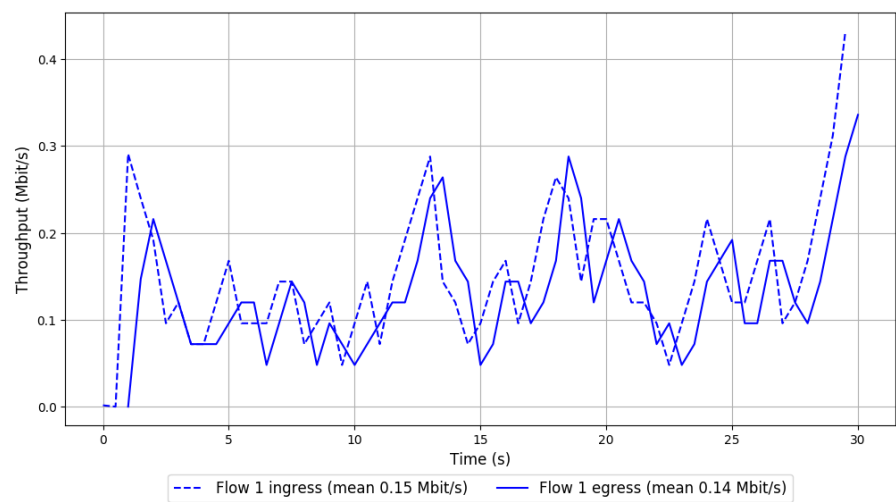


Run 4: Statistics of TCP Vegas

Start at: 2019-01-19 08:41:29
End at: 2019-01-19 08:41:59
Local clock offset: 0.583 ms
Remote clock offset: 46.811 ms

Below is generated by plot.py at 2019-01-19 09:50:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 177.576 ms
Loss rate: 11.06%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 177.576 ms
Loss rate: 11.06%

Run 4: Report of TCP Vegas — Data Link

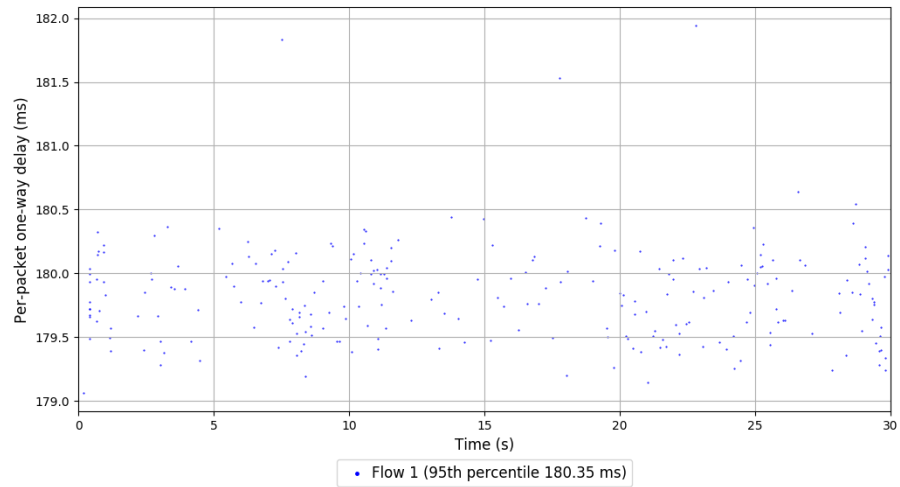
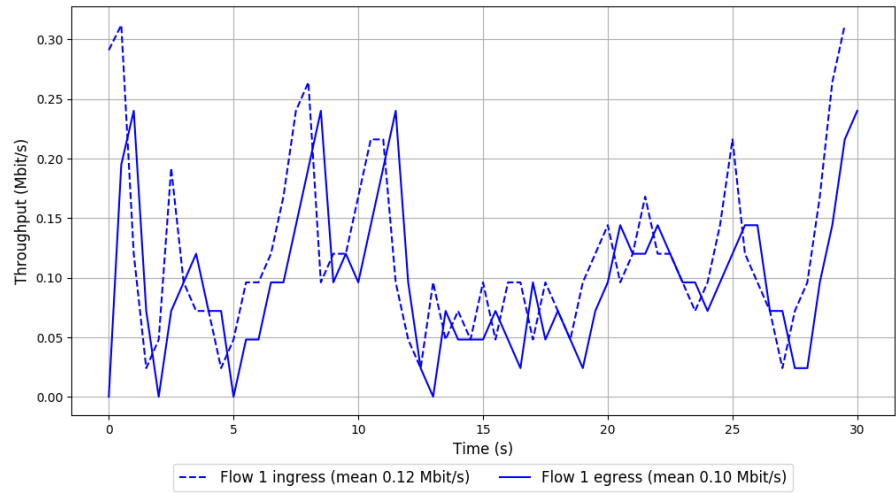


Run 5: Statistics of TCP Vegas

Start at: 2019-01-19 09:42:11
End at: 2019-01-19 09:42:41
Local clock offset: -8.521 ms
Remote clock offset: 40.063 ms

Below is generated by plot.py at 2019-01-19 09:50:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 180.354 ms
Loss rate: 16.26%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 180.354 ms
Loss rate: 16.26%

Run 5: Report of TCP Vegas — Data Link

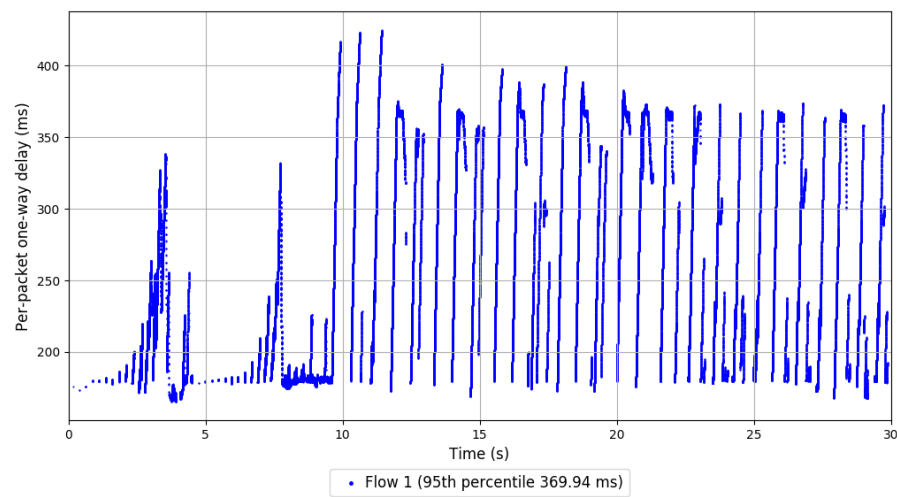
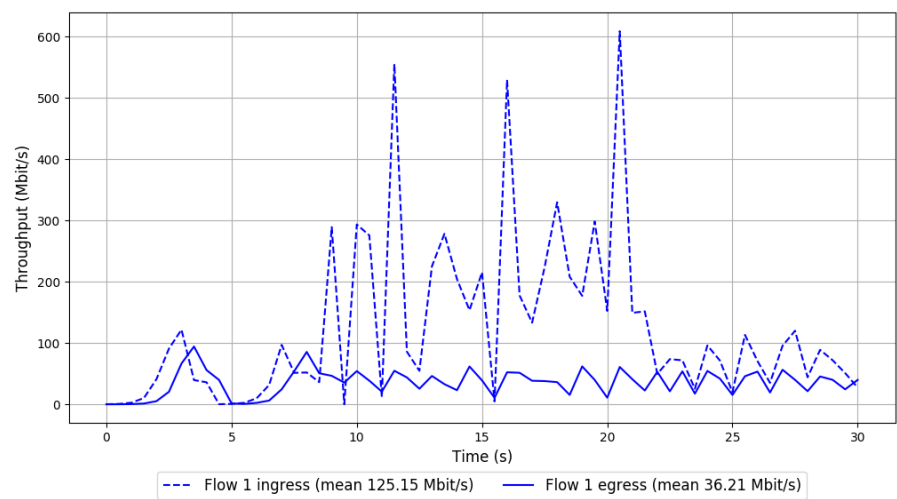


Run 1: Statistics of Verus

Start at: 2019-01-19 05:43:26
End at: 2019-01-19 05:43:56
Local clock offset: 6.202 ms
Remote clock offset: 28.623 ms

Below is generated by plot.py at 2019-01-19 09:50:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 36.21 Mbit/s
95th percentile per-packet one-way delay: 369.940 ms
Loss rate: 71.44%
-- Flow 1:
Average throughput: 36.21 Mbit/s
95th percentile per-packet one-way delay: 369.940 ms
Loss rate: 71.44%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

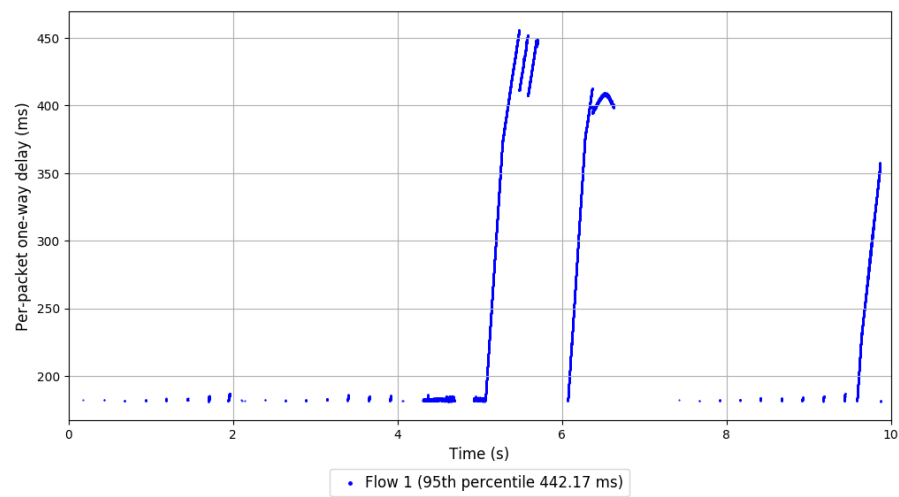
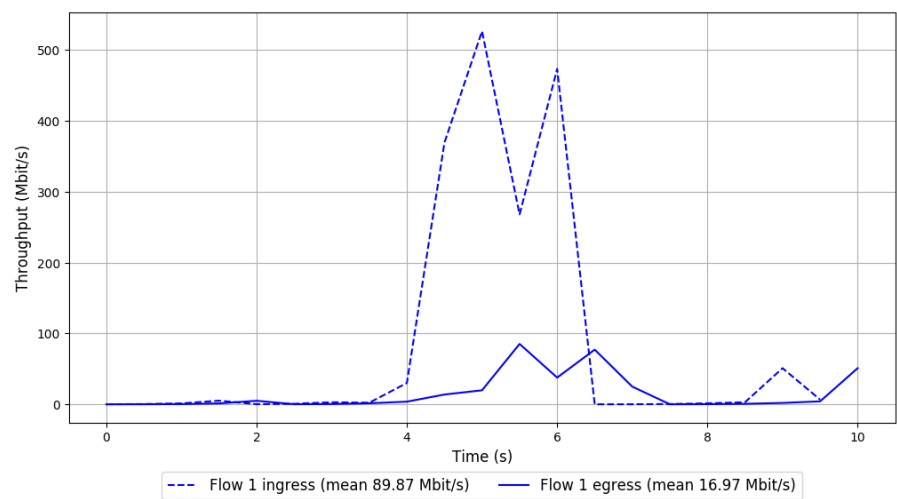
Start at: 2019-01-19 06:36:38

End at: 2019-01-19 06:37:08

Local clock offset: -10.228 ms

Remote clock offset: 49.54 ms

Run 2: Report of Verus — Data Link

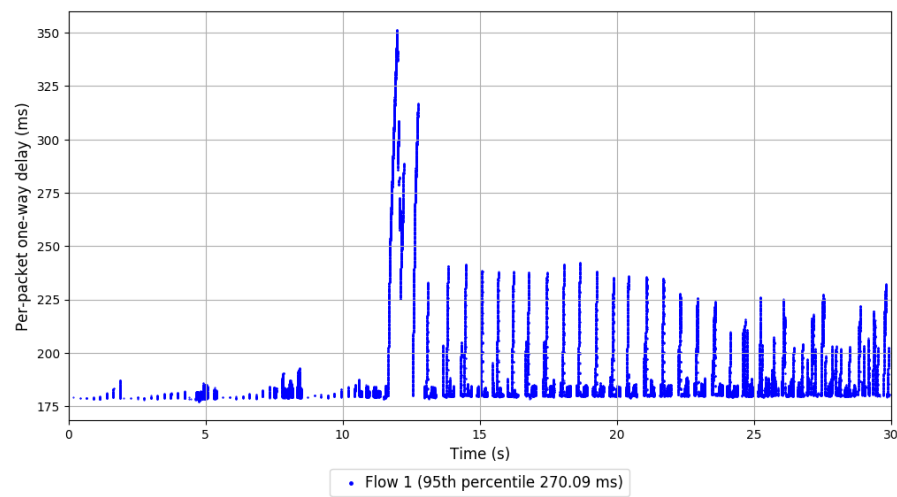
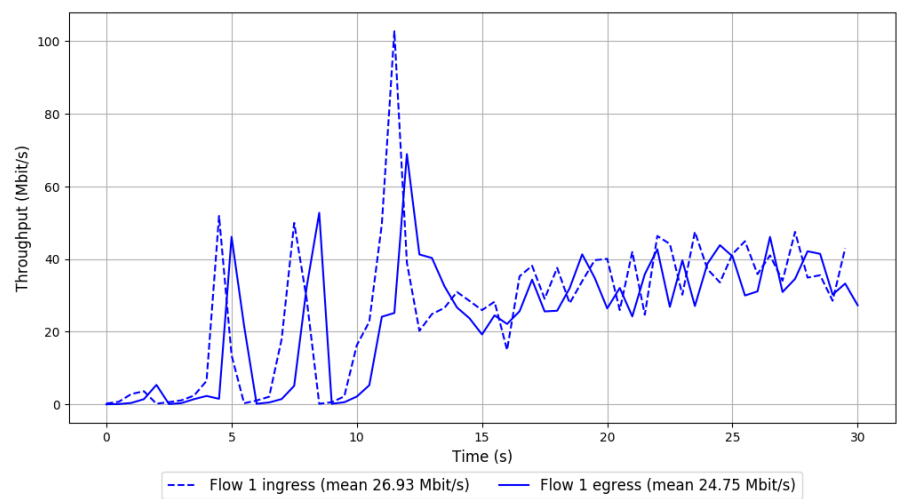


Run 3: Statistics of Verus

Start at: 2019-01-19 07:29:00
End at: 2019-01-19 07:29:30
Local clock offset: 1.937 ms
Remote clock offset: 46.457 ms

Below is generated by plot.py at 2019-01-19 09:50:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.75 Mbit/s
95th percentile per-packet one-way delay: 270.089 ms
Loss rate: 8.85%
-- Flow 1:
Average throughput: 24.75 Mbit/s
95th percentile per-packet one-way delay: 270.089 ms
Loss rate: 8.85%

Run 3: Report of Verus — Data Link

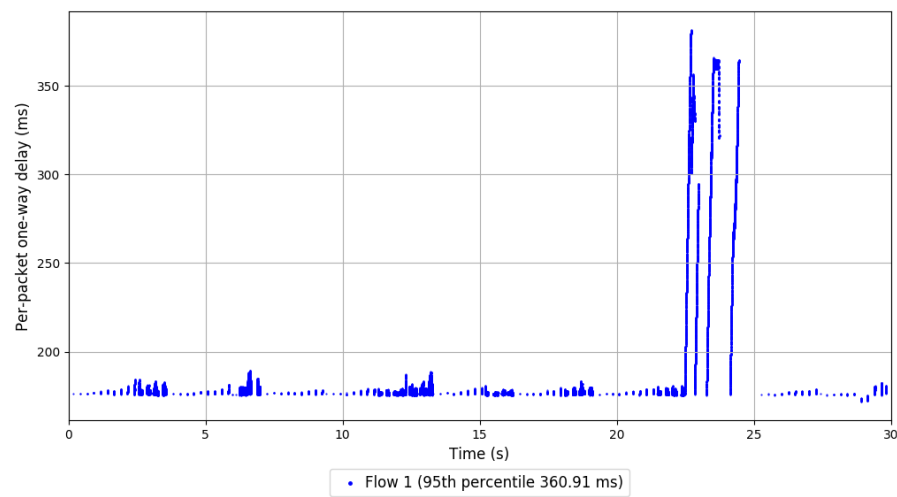
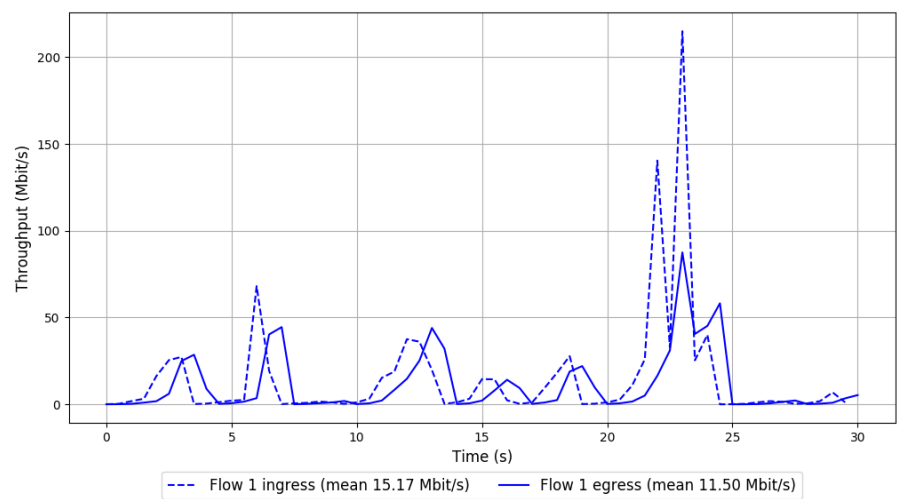


Run 4: Statistics of Verus

Start at: 2019-01-19 08:24:01
End at: 2019-01-19 08:24:31
Local clock offset: -4.142 ms
Remote clock offset: 48.496 ms

Below is generated by plot.py at 2019-01-19 09:50:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.50 Mbit/s
95th percentile per-packet one-way delay: 360.913 ms
Loss rate: 24.76%
-- Flow 1:
Average throughput: 11.50 Mbit/s
95th percentile per-packet one-way delay: 360.913 ms
Loss rate: 24.76%

Run 4: Report of Verus — Data Link

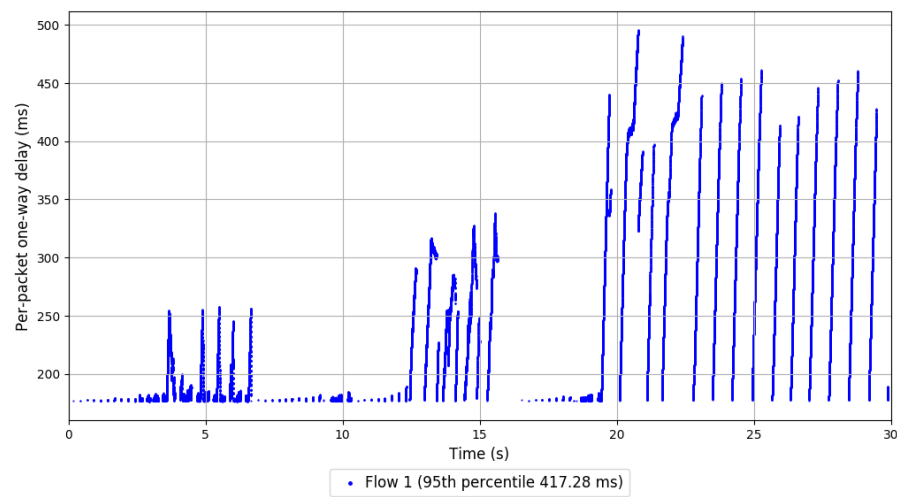
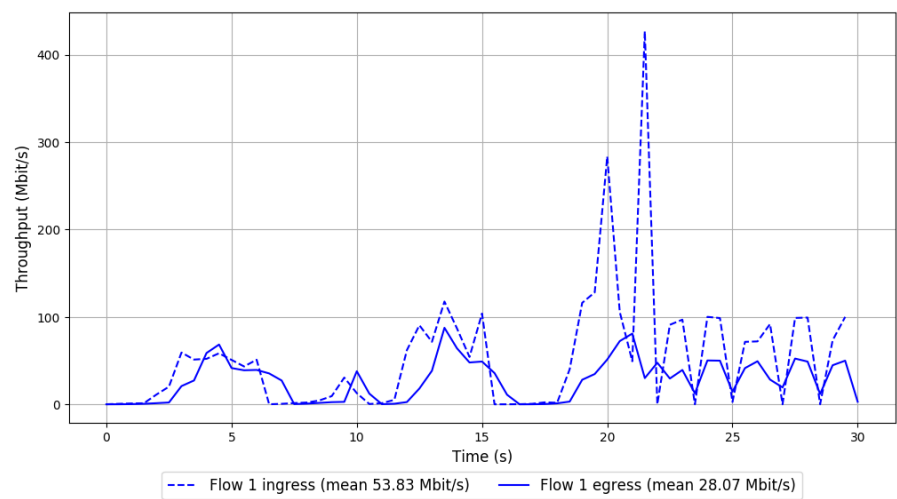


Run 5: Statistics of Verus

Start at: 2019-01-19 09:19:10
End at: 2019-01-19 09:19:40
Local clock offset: -0.173 ms
Remote clock offset: 50.051 ms

Below is generated by plot.py at 2019-01-19 09:50:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 28.07 Mbit/s
95th percentile per-packet one-way delay: 417.279 ms
Loss rate: 47.93%
-- Flow 1:
Average throughput: 28.07 Mbit/s
95th percentile per-packet one-way delay: 417.279 ms
Loss rate: 47.93%

Run 5: Report of Verus — Data Link

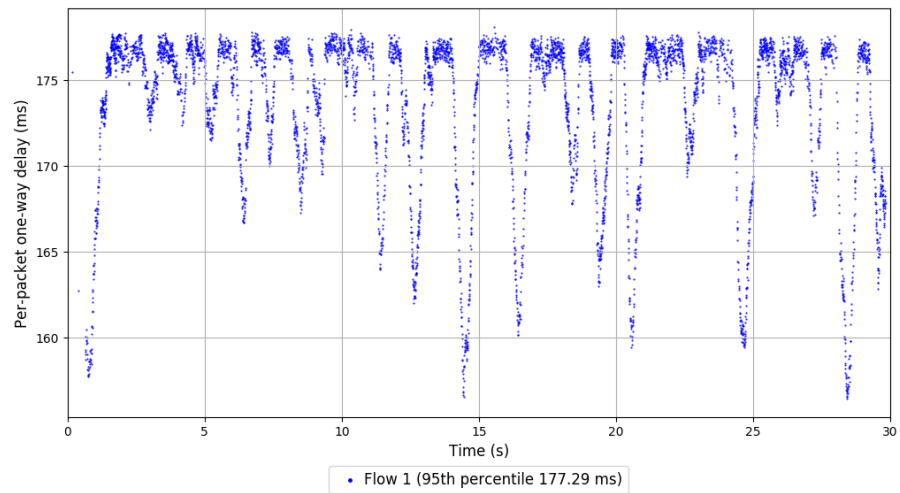
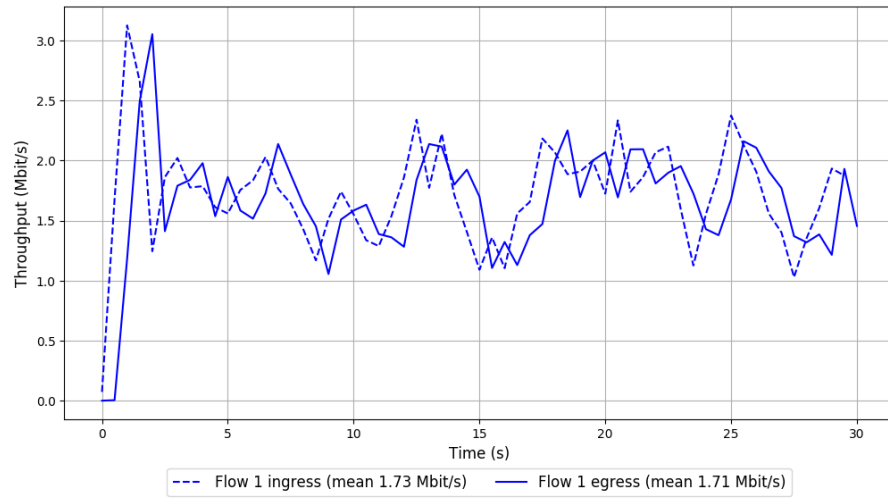


Run 1: Statistics of PCC-Vivace

Start at: 2019-01-19 05:32:10
End at: 2019-01-19 05:32:40
Local clock offset: 4.978 ms
Remote clock offset: 29.034 ms

Below is generated by plot.py at 2019-01-19 09:50:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 177.288 ms
Loss rate: 2.00%
-- Flow 1:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 177.288 ms
Loss rate: 2.00%

Run 1: Report of PCC-Vivace — Data Link

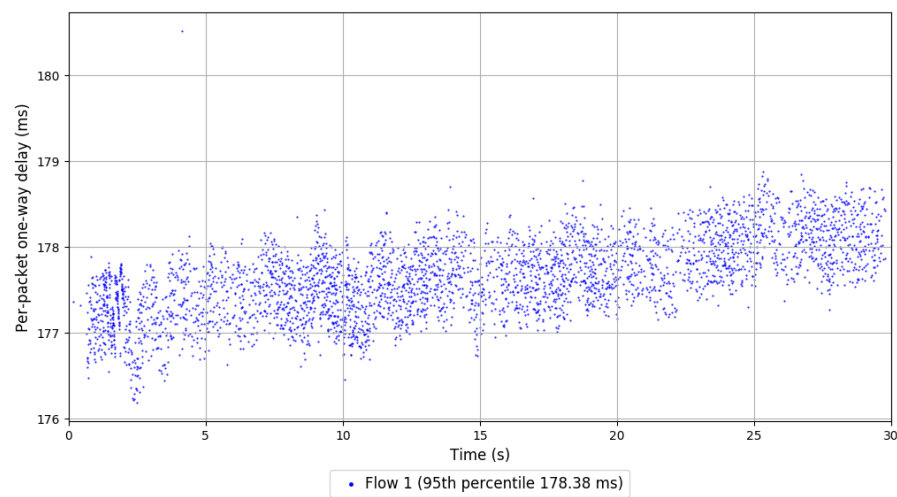
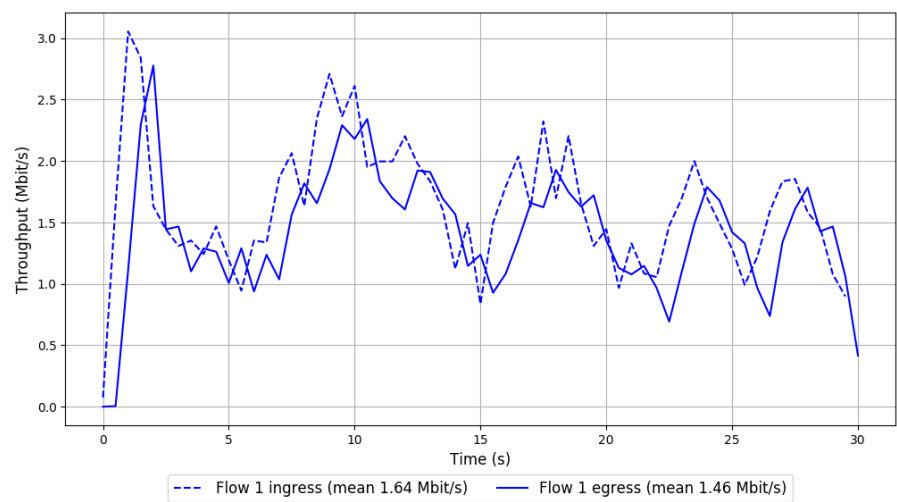


Run 2: Statistics of PCC-Vivace

Start at: 2019-01-19 06:25:05
End at: 2019-01-19 06:25:35
Local clock offset: -11.22 ms
Remote clock offset: 50.684 ms

Below is generated by plot.py at 2019-01-19 09:50:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 178.383 ms
Loss rate: 11.64%
-- Flow 1:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 178.383 ms
Loss rate: 11.64%

Run 2: Report of PCC-Vivace — Data Link

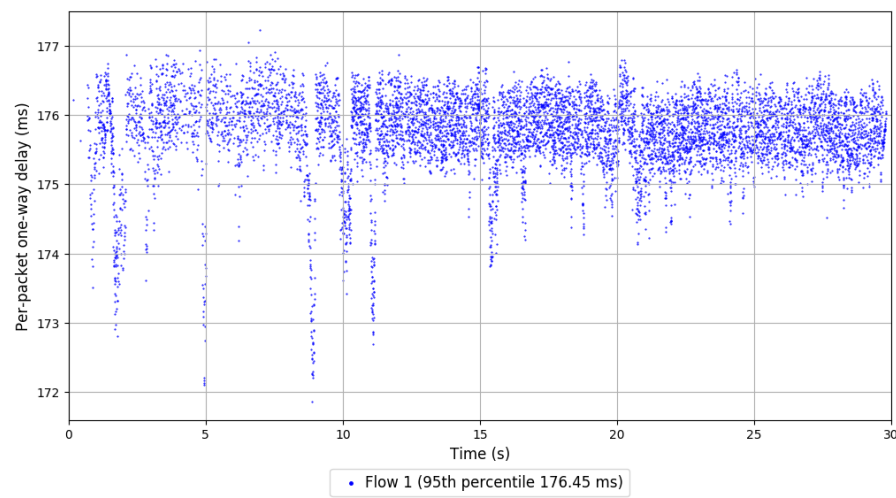
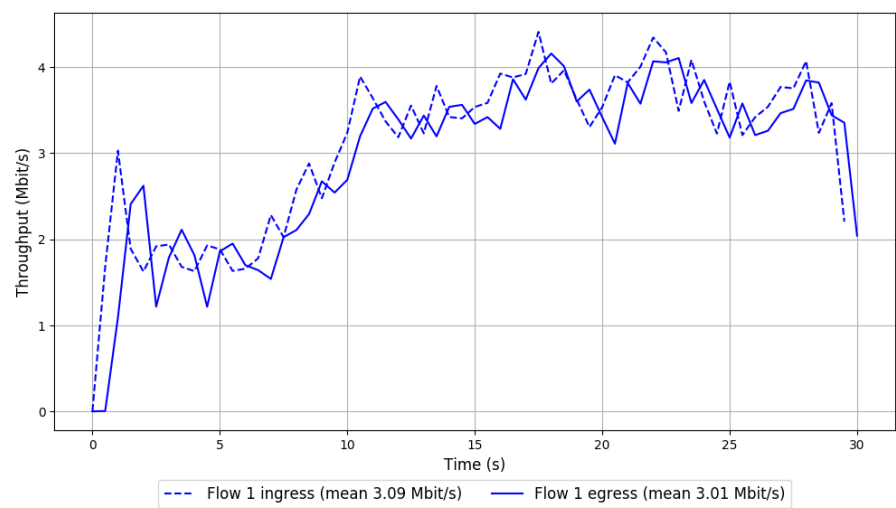


Run 3: Statistics of PCC-Vivace

Start at: 2019-01-19 07:14:00
End at: 2019-01-19 07:14:30
Local clock offset: 6.249 ms
Remote clock offset: 52.866 ms

Below is generated by plot.py at 2019-01-19 09:50:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.01 Mbit/s
95th percentile per-packet one-way delay: 176.447 ms
Loss rate: 3.33%
-- Flow 1:
Average throughput: 3.01 Mbit/s
95th percentile per-packet one-way delay: 176.447 ms
Loss rate: 3.33%

Run 3: Report of PCC-Vivace — Data Link

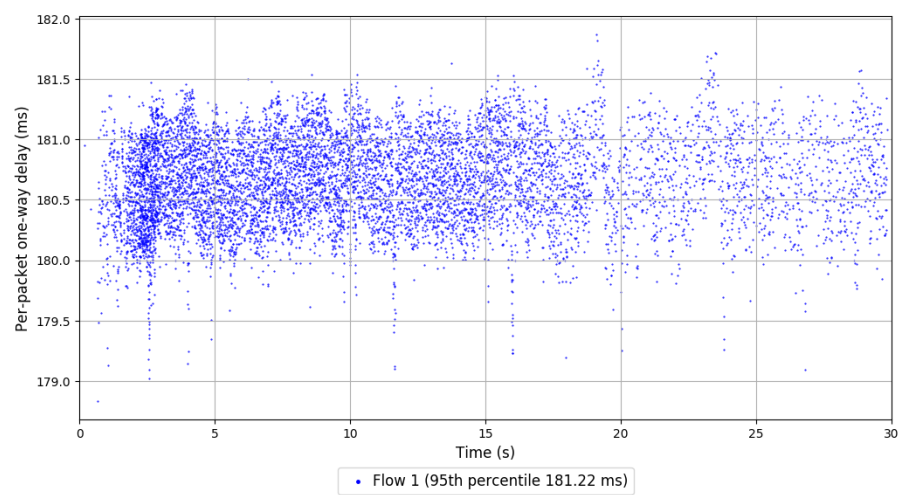
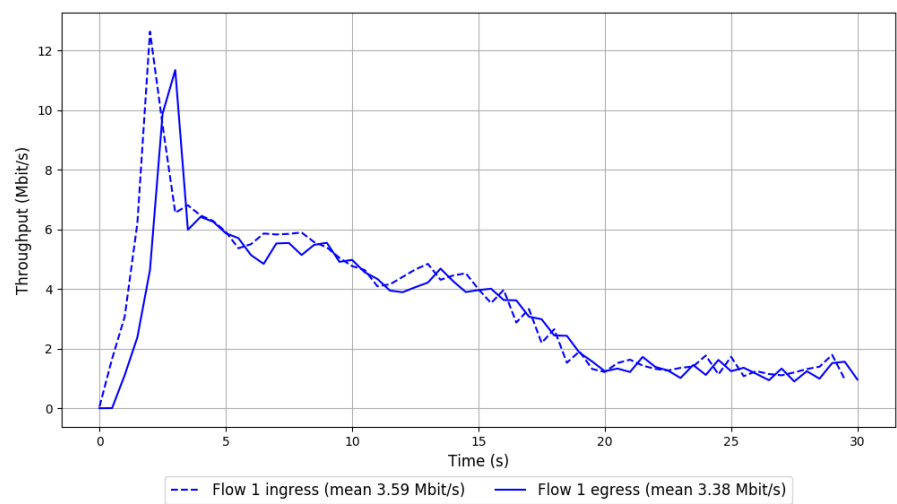


Run 4: Statistics of PCC-Vivace

Start at: 2019-01-19 08:13:10
End at: 2019-01-19 08:13:40
Local clock offset: -9.479 ms
Remote clock offset: 46.946 ms

Below is generated by plot.py at 2019-01-19 09:50:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.38 Mbit/s
95th percentile per-packet one-way delay: 181.216 ms
Loss rate: 6.47%
-- Flow 1:
Average throughput: 3.38 Mbit/s
95th percentile per-packet one-way delay: 181.216 ms
Loss rate: 6.47%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-01-19 09:08:24

End at: 2019-01-19 09:08:54

Local clock offset: 1.635 ms

Remote clock offset: 45.552 ms

Below is generated by plot.py at 2019-01-19 09:50:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.12 Mbit/s

95th percentile per-packet one-way delay: 181.369 ms

Loss rate: 6.69%

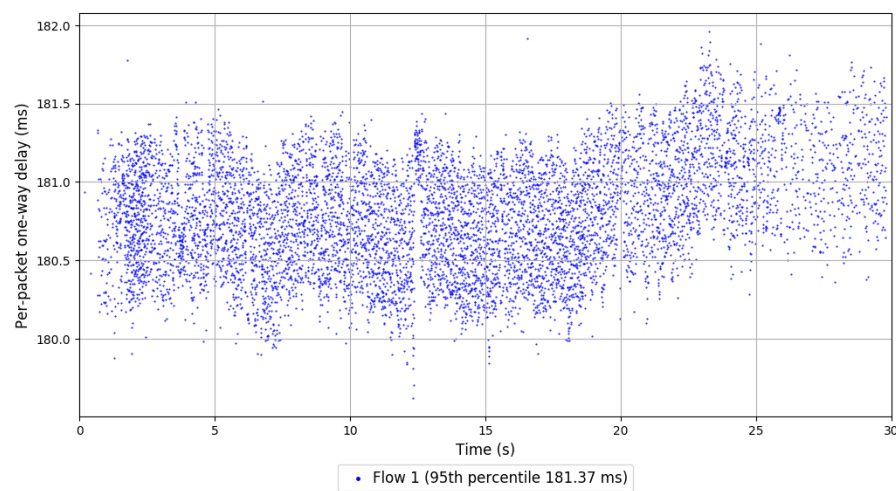
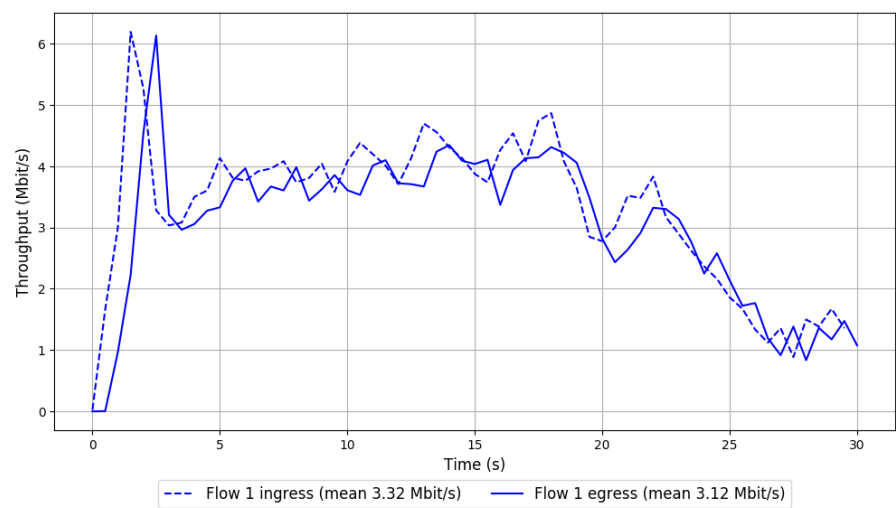
-- Flow 1:

Average throughput: 3.12 Mbit/s

95th percentile per-packet one-way delay: 181.369 ms

Loss rate: 6.69%

Run 5: Report of PCC-Vivace — Data Link

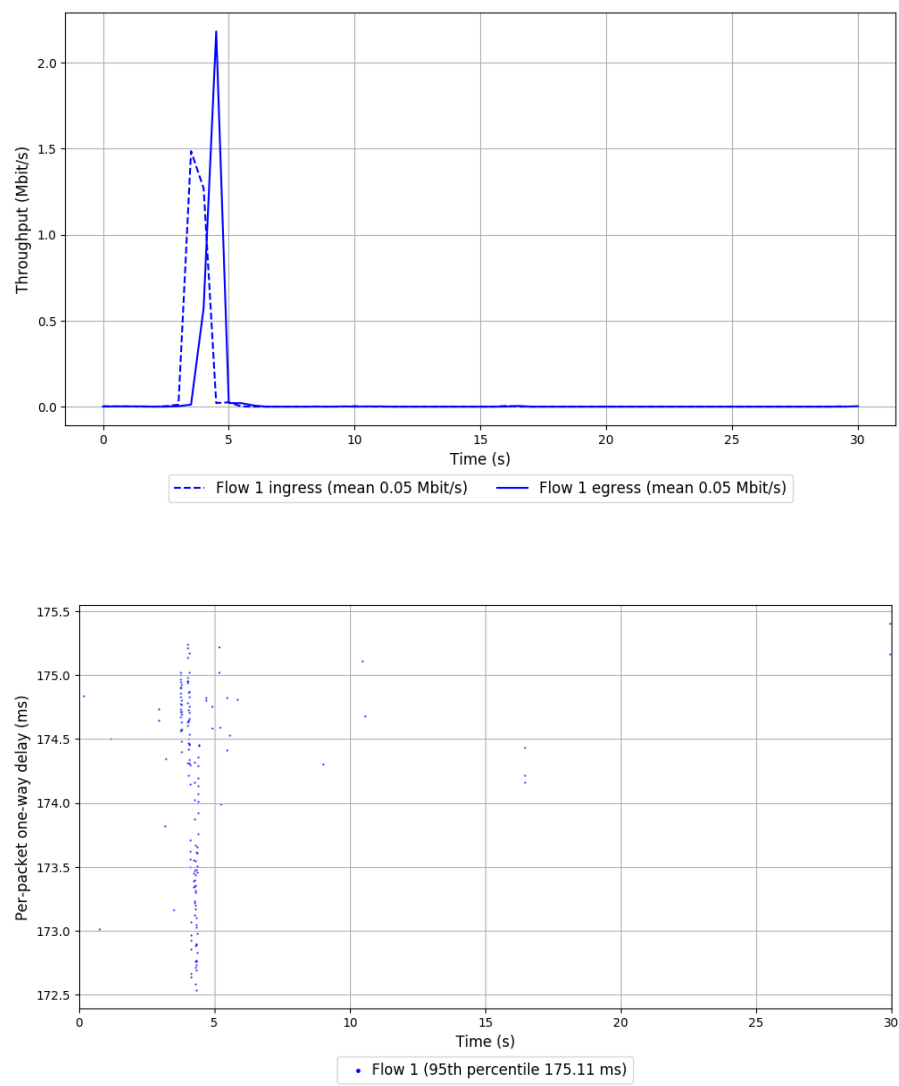


Run 1: Statistics of WebRTC media

Start at: 2019-01-19 06:05:13
End at: 2019-01-19 06:05:43
Local clock offset: -11.398 ms
Remote clock offset: 41.706 ms

Below is generated by plot.py at 2019-01-19 09:50:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 175.110 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 175.110 ms
Loss rate: 0.04%

Run 1: Report of WebRTC media — Data Link

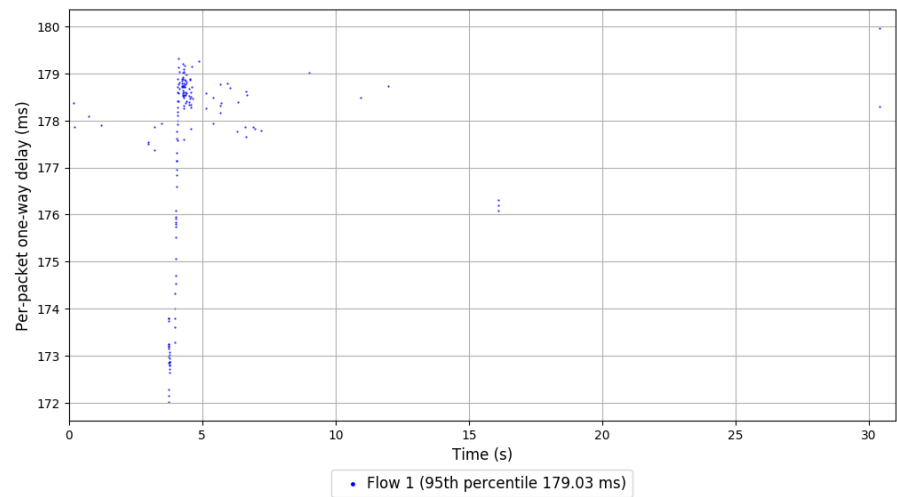
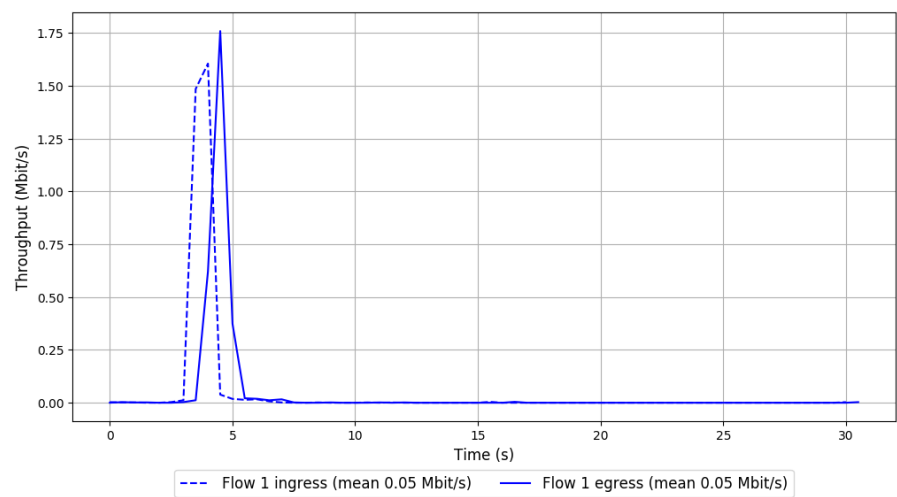


Run 2: Statistics of WebRTC media

Start at: 2019-01-19 07:00:13
End at: 2019-01-19 07:00:43
Local clock offset: 1.947 ms
Remote clock offset: 52.059 ms

Below is generated by plot.py at 2019-01-19 09:50:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 179.035 ms
Loss rate: 11.24%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 179.035 ms
Loss rate: 11.24%

Run 2: Report of WebRTC media — Data Link

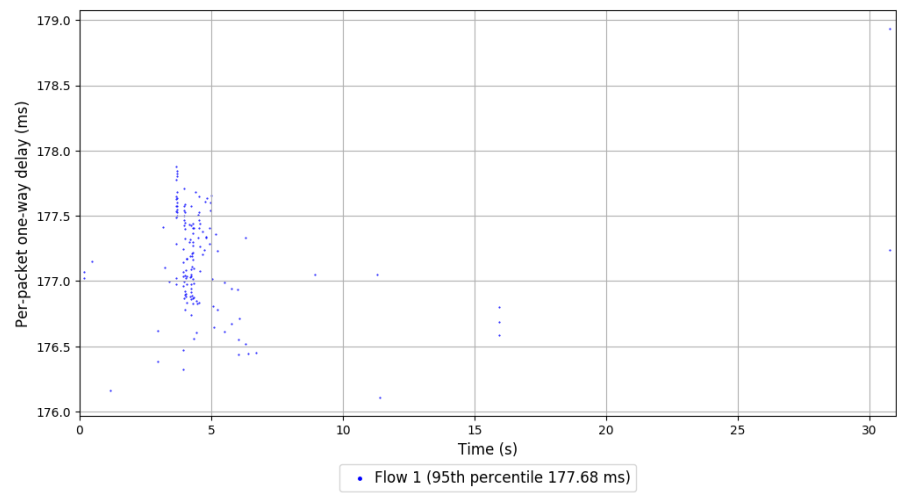
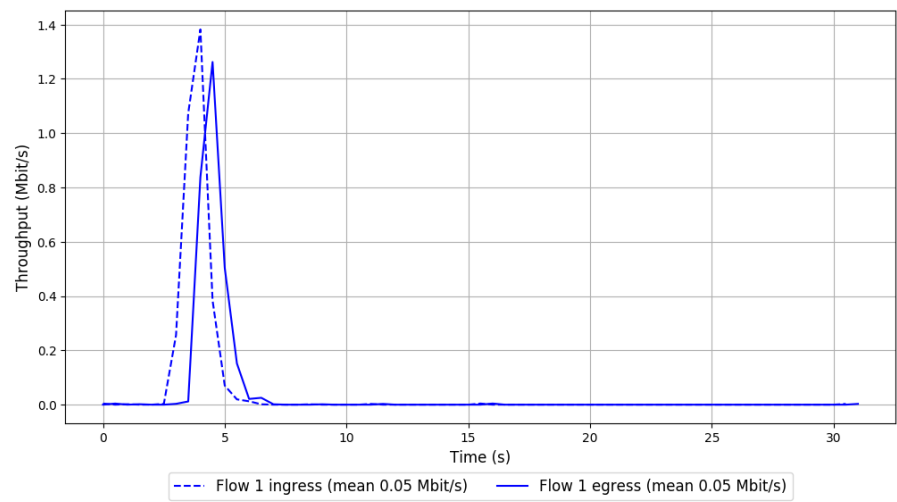


Run 3: Statistics of WebRTC media

Start at: 2019-01-19 07:55:08
End at: 2019-01-19 07:55:38
Local clock offset: -4.72 ms
Remote clock offset: 50.702 ms

Below is generated by plot.py at 2019-01-19 09:50:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 177.681 ms
Loss rate: 11.93%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 177.681 ms
Loss rate: 11.93%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

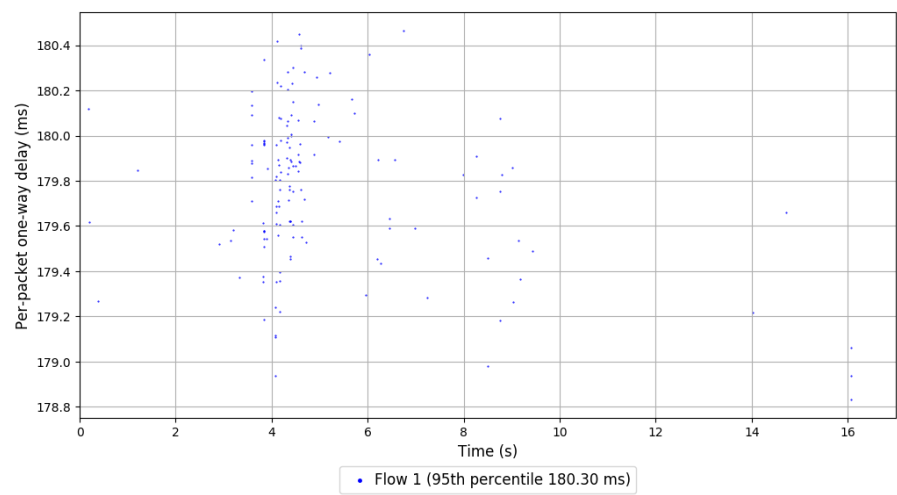
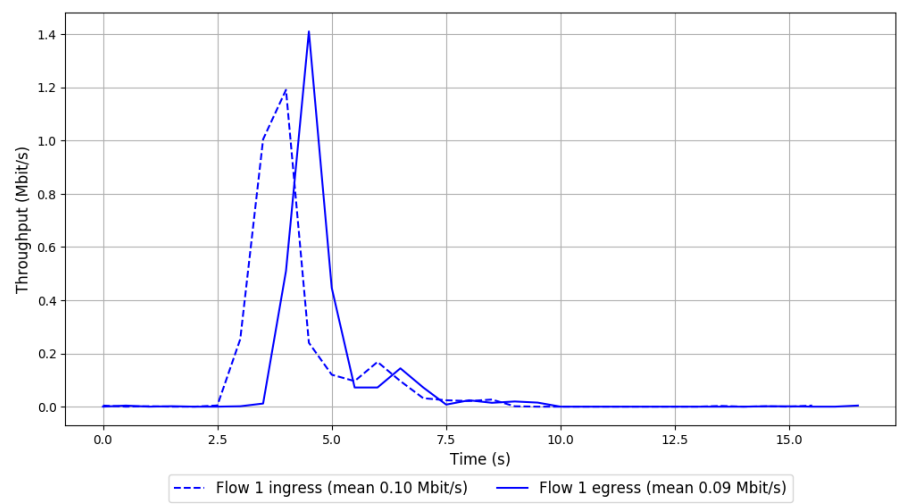
Start at: 2019-01-19 08:46:35

End at: 2019-01-19 08:47:05

Local clock offset: 1.054 ms

Remote clock offset: 43.785 ms

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-01-19 09:47:23
End at: 2019-01-19 09:47:53
Local clock offset: -8.918 ms
Remote clock offset: 43.726 ms

Below is generated by plot.py at 2019-01-19 09:50:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 174.614 ms
Loss rate: 8.02%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 174.614 ms
Loss rate: 8.02%

Run 5: Report of WebRTC media — Data Link

