

Pantheon Report

Generated at 2019-07-18 20:41:02 (UTC).

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

Repeated the test of 24 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

System info:

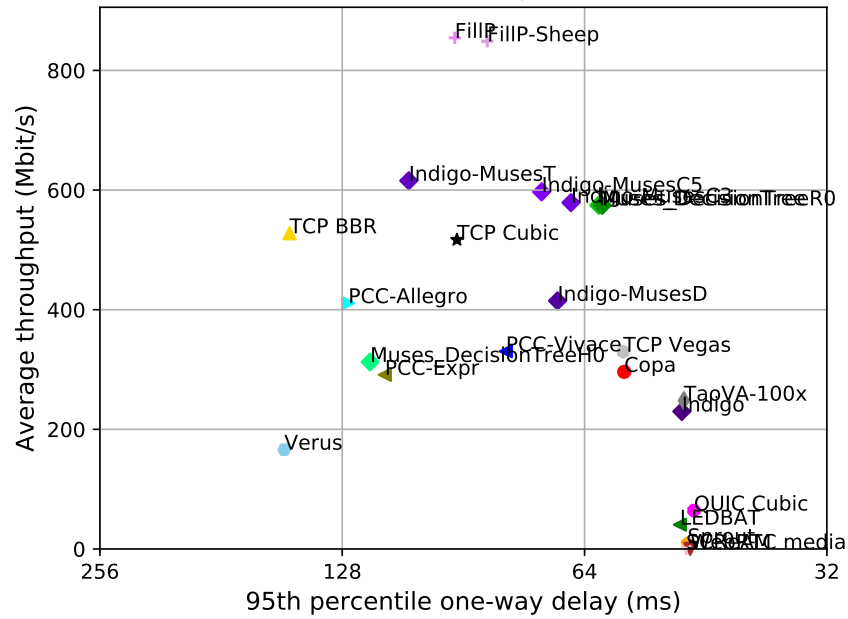
```
Linux 4.15.0-1036-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

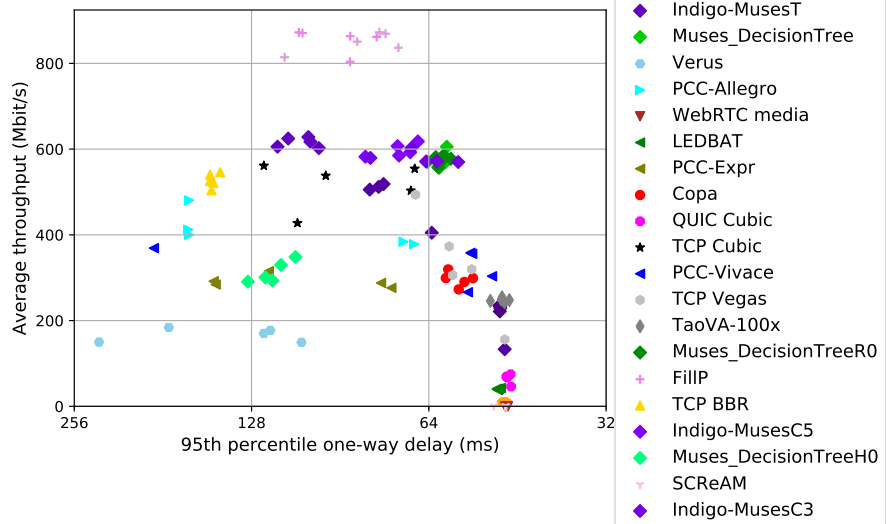
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
```

third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

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



test from GCE Iowa to GCE London, 5 runs of 30s each per scheme



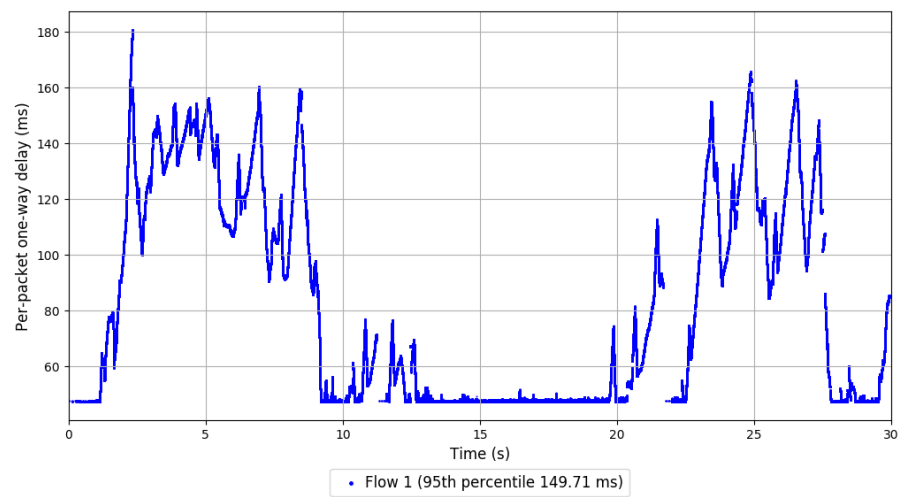
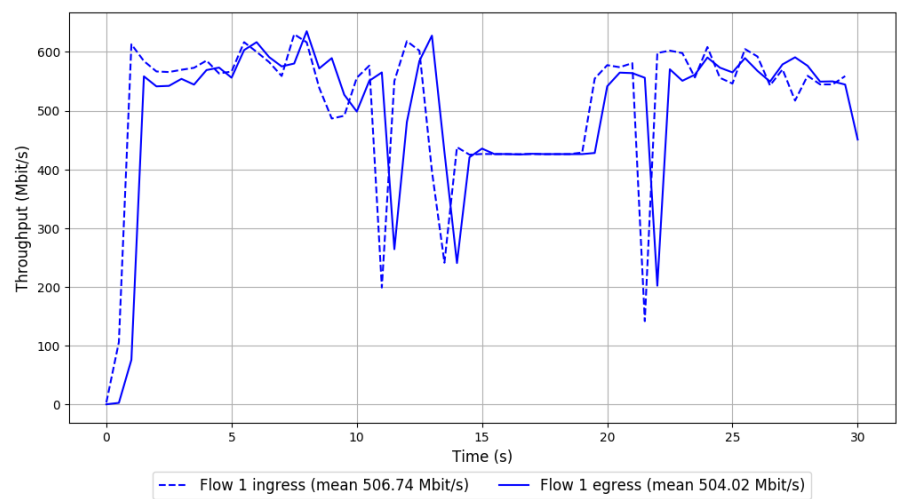
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	527.74	148.82	0.74
Copa	5	296.13	57.14	0.32
TCP Cubic	5	516.86	92.20	0.36
FillP	5	854.41	92.77	0.50
FillP-Sheep	5	848.71	84.54	0.51
Indigo	4	229.88	48.46	0.34
Indigo-MusesC3	5	578.91	66.54	0.38
Indigo-MusesC5	5	597.00	72.37	0.41
Indigo-MusesD	5	414.80	69.15	0.43
Indigo-MusesT	5	615.60	105.82	0.47
LEDBAT	5	40.63	48.73	0.58
Muses_DecisionTree	5	574.63	61.44	0.34
Muses_DecisionTreeH0	5	312.63	118.18	0.32
Muses_DecisionTreeR0	5	574.48	60.85	0.39
PCC-Allegro	5	410.97	125.82	1.83
PCC-Expr	5	291.05	113.32	1.03
QUIC Cubic	4	64.34	46.81	0.52
SCReAM	5	0.22	47.86	0.31
Sprout	5	9.61	47.67	0.35
TaoVA-100x	5	247.97	48.18	0.32
TCP Vegas	5	329.71	57.30	0.24
Verus	5	166.03	151.09	2.41
PCC-Vivace	5	330.45	80.17	0.55
WebRTC media	4	0.05	47.31	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-07-18 15:47:57
End at: 2019-07-18 15:48:27
Local clock offset: -0.077 ms
Remote clock offset: -0.204 ms

Below is generated by plot.py at 2019-07-18 18:56:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 504.02 Mbit/s
95th percentile per-packet one-way delay: 149.710 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 504.02 Mbit/s
95th percentile per-packet one-way delay: 149.710 ms
Loss rate: 0.85%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-07-18 16:22:19

End at: 2019-07-18 16:22:49

Local clock offset: -0.043 ms

Remote clock offset: 0.06 ms

Below is generated by plot.py at 2019-07-18 18:56:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 525.96 Mbit/s

95th percentile per-packet one-way delay: 150.608 ms

Loss rate: 0.88%

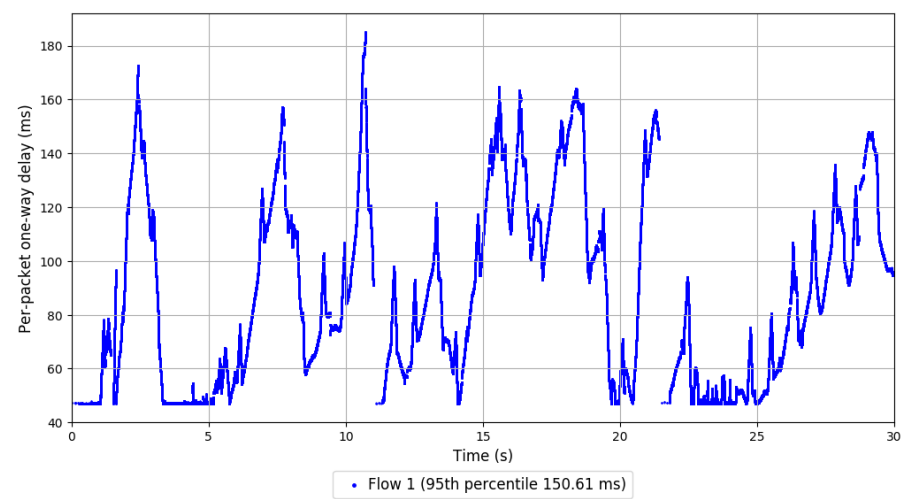
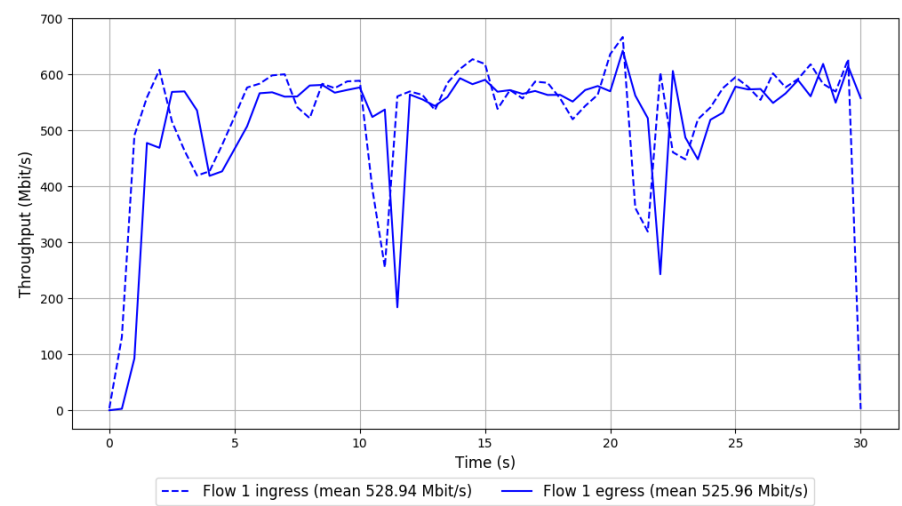
-- Flow 1:

Average throughput: 525.96 Mbit/s

95th percentile per-packet one-way delay: 150.608 ms

Loss rate: 0.88%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-07-18 16:57:00

End at: 2019-07-18 16:57:30

Local clock offset: -0.206 ms

Remote clock offset: 0.017 ms

Below is generated by plot.py at 2019-07-18 18:56:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 540.61 Mbit/s

95th percentile per-packet one-way delay: 150.505 ms

Loss rate: 0.38%

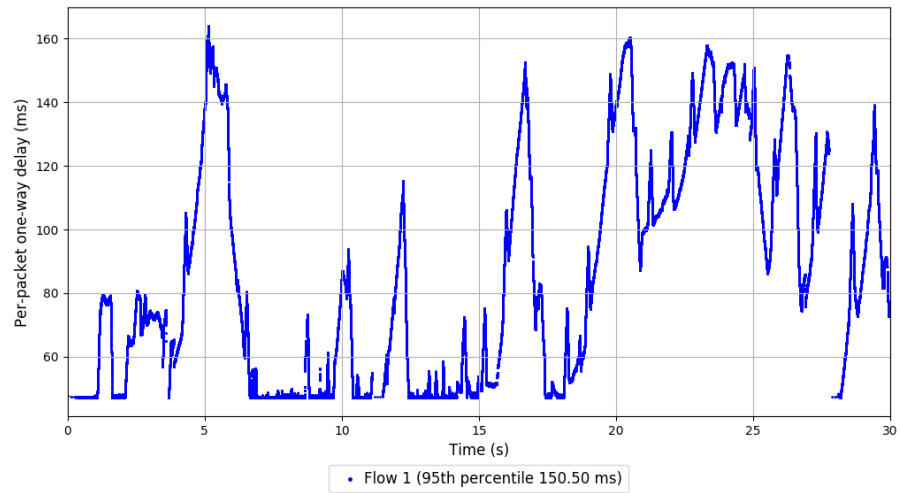
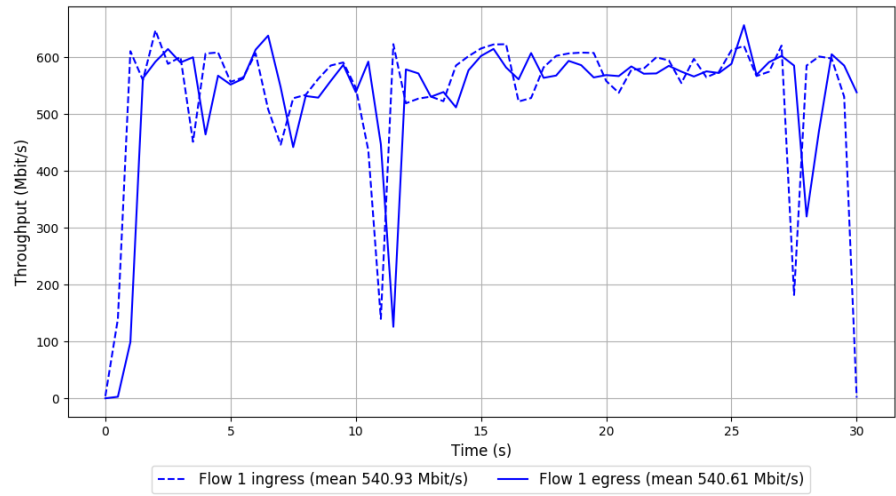
-- Flow 1:

Average throughput: 540.61 Mbit/s

95th percentile per-packet one-way delay: 150.505 ms

Loss rate: 0.38%

Run 3: Report of TCP BBR — Data Link

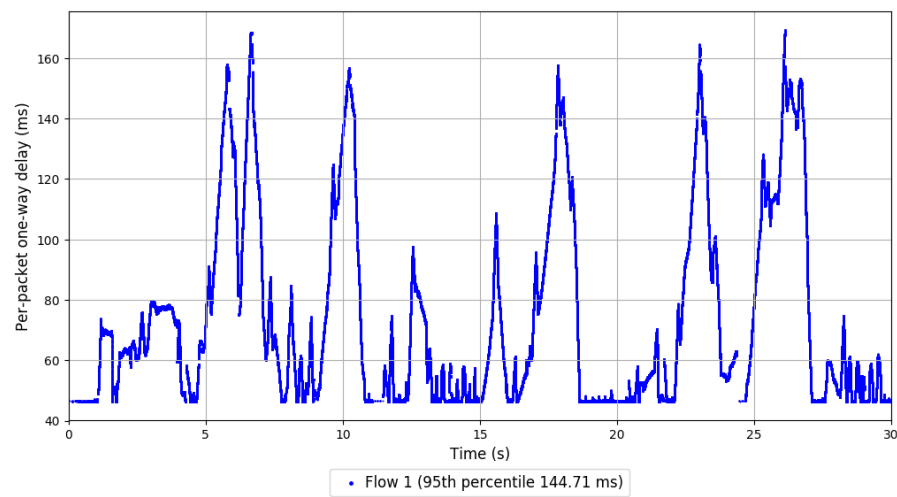
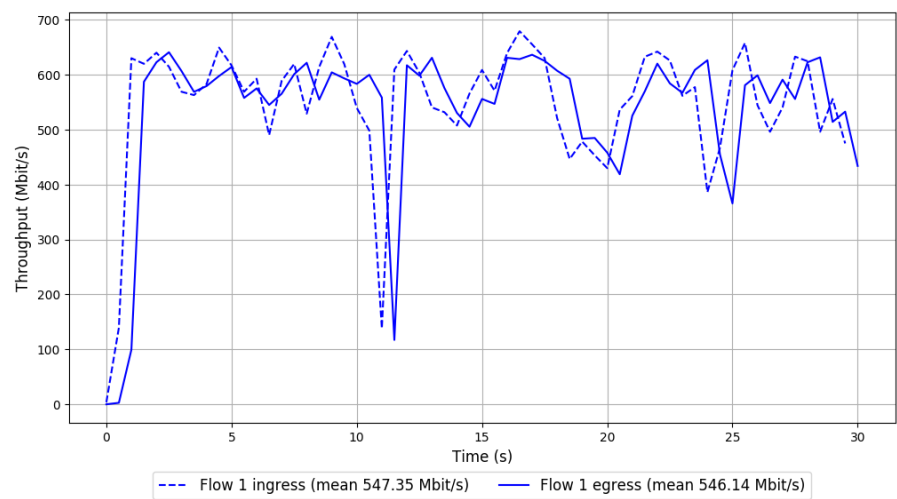


Run 4: Statistics of TCP BBR

Start at: 2019-07-18 17:31:31
End at: 2019-07-18 17:32:01
Local clock offset: -0.13 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2019-07-18 18:56:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 546.14 Mbit/s
95th percentile per-packet one-way delay: 144.714 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 546.14 Mbit/s
95th percentile per-packet one-way delay: 144.714 ms
Loss rate: 0.54%

Run 4: Report of TCP BBR — Data Link

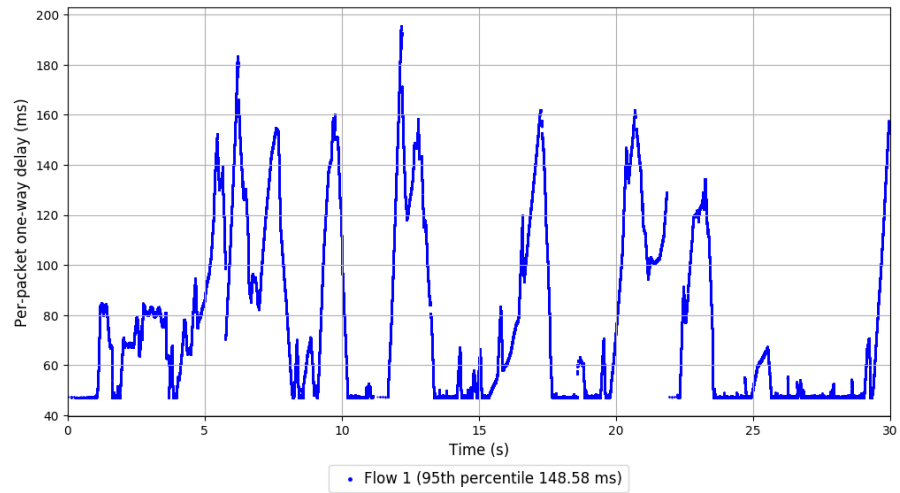
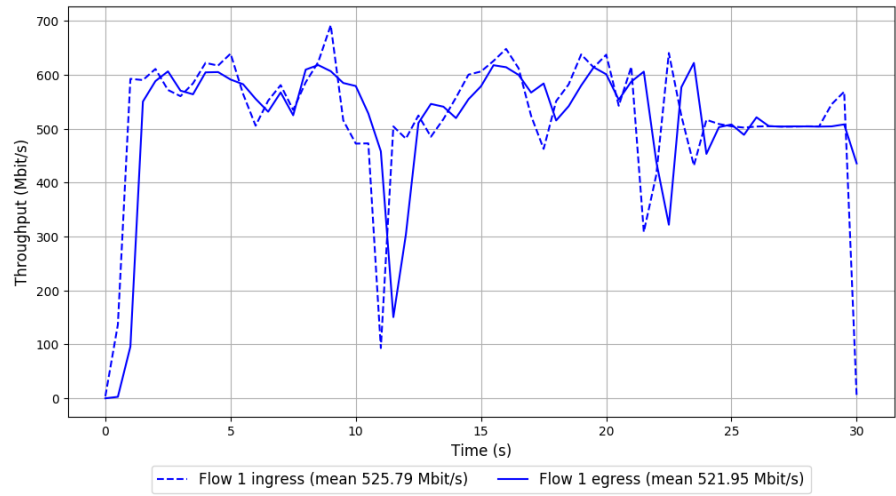


Run 5: Statistics of TCP BBR

Start at: 2019-07-18 18:06:19
End at: 2019-07-18 18:06:49
Local clock offset: -0.153 ms
Remote clock offset: -0.046 ms

Below is generated by plot.py at 2019-07-18 18:56:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 521.95 Mbit/s
95th percentile per-packet one-way delay: 148.579 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 521.95 Mbit/s
95th percentile per-packet one-way delay: 148.579 ms
Loss rate: 1.05%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-07-18 15:42:22

End at: 2019-07-18 15:42:52

Local clock offset: -0.096 ms

Remote clock offset: -0.18 ms

Below is generated by plot.py at 2019-07-18 18:56:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 299.33 Mbit/s

95th percentile per-packet one-way delay: 59.875 ms

Loss rate: 0.34%

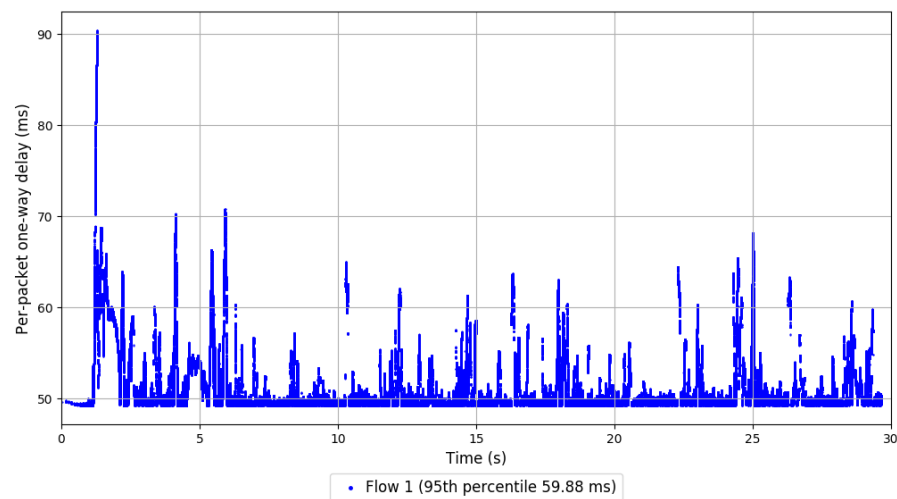
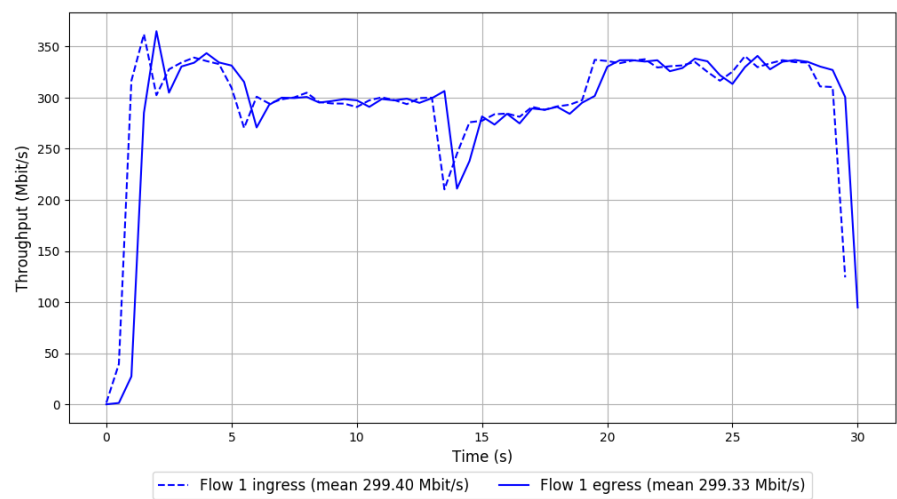
-- Flow 1:

Average throughput: 299.33 Mbit/s

95th percentile per-packet one-way delay: 59.875 ms

Loss rate: 0.34%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-07-18 16:16:34

End at: 2019-07-18 16:17:04

Local clock offset: -0.047 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2019-07-18 18:57:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 319.36 Mbit/s

95th percentile per-packet one-way delay: 59.324 ms

Loss rate: 0.30%

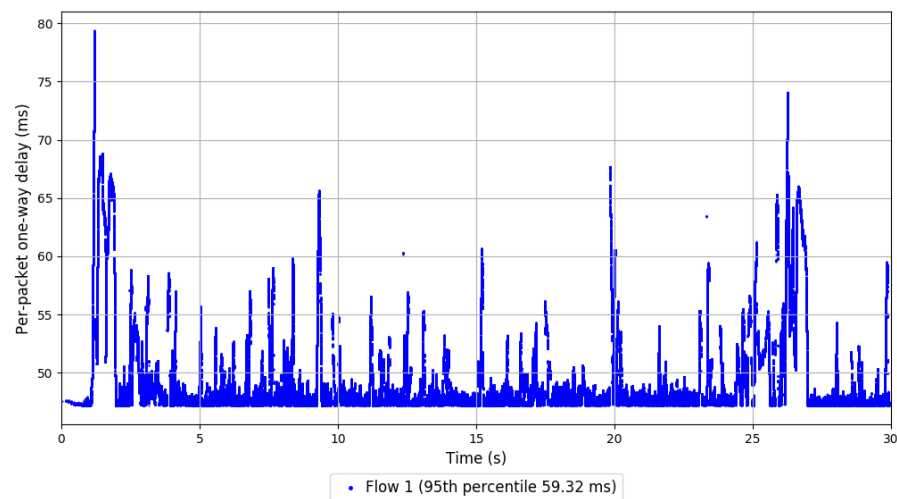
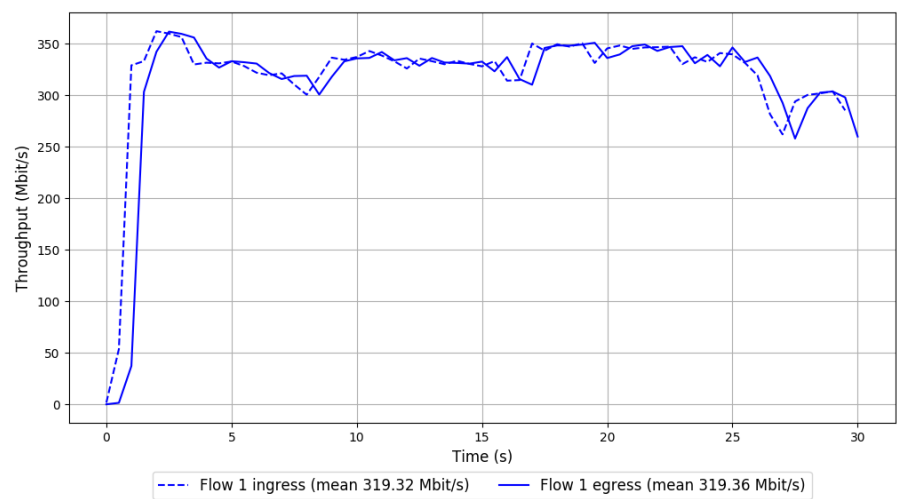
-- Flow 1:

Average throughput: 319.36 Mbit/s

95th percentile per-packet one-way delay: 59.324 ms

Loss rate: 0.30%

Run 2: Report of Copa — Data Link

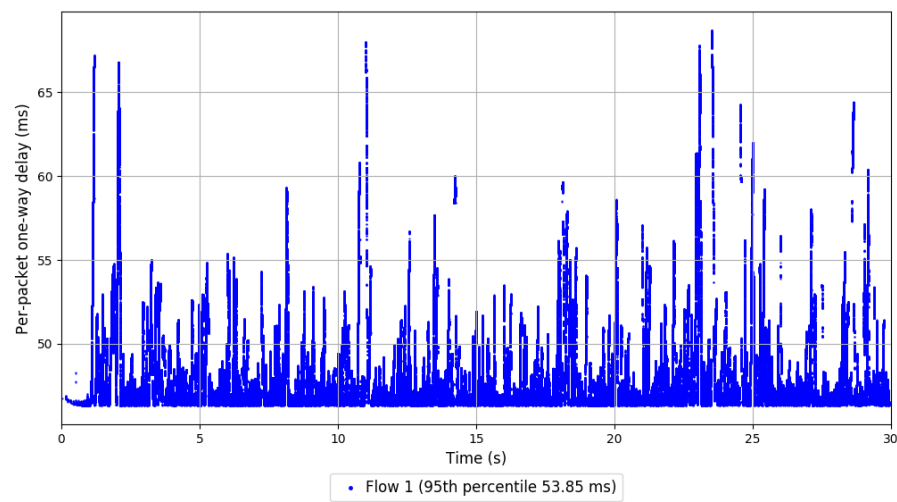
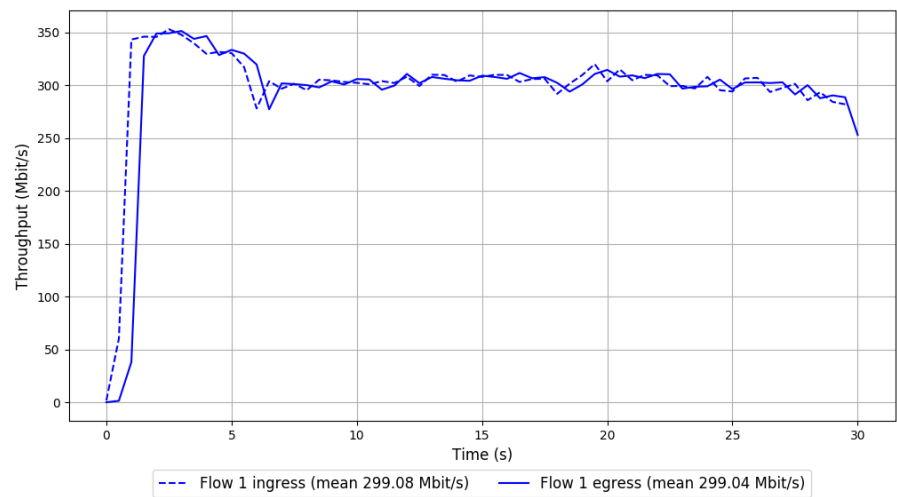


Run 3: Statistics of Copa

Start at: 2019-07-18 16:51:22
End at: 2019-07-18 16:51:52
Local clock offset: -0.201 ms
Remote clock offset: 0.018 ms

Below is generated by plot.py at 2019-07-18 18:57:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 299.04 Mbit/s
95th percentile per-packet one-way delay: 53.855 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 299.04 Mbit/s
95th percentile per-packet one-way delay: 53.855 ms
Loss rate: 0.33%

Run 3: Report of Copa — Data Link

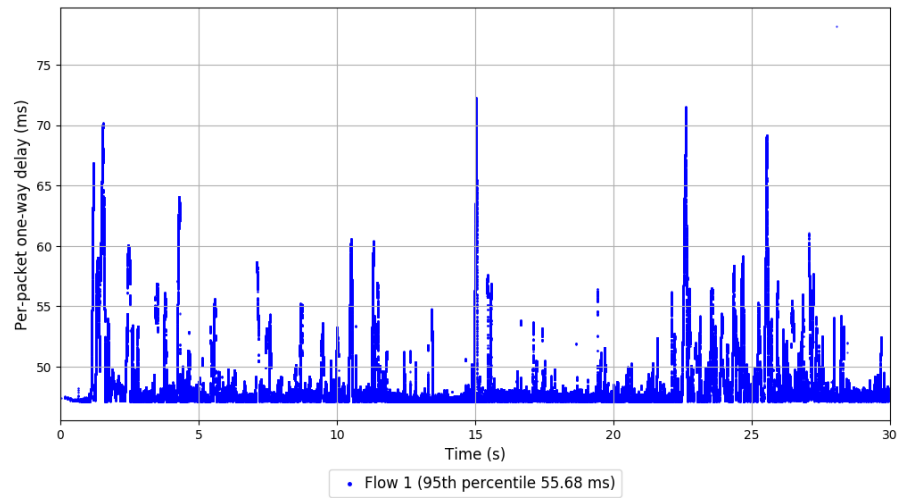
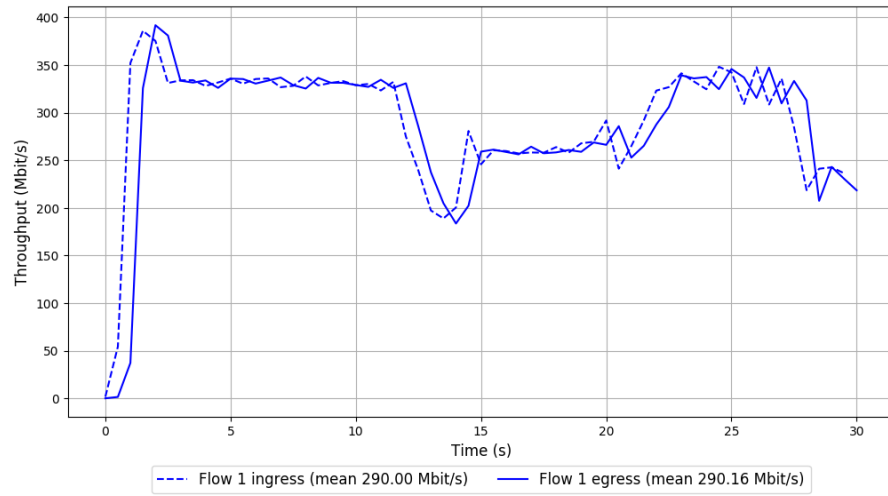


Run 4: Statistics of Copa

Start at: 2019-07-18 17:25:50
End at: 2019-07-18 17:26:20
Local clock offset: -0.133 ms
Remote clock offset: -0.034 ms

Below is generated by plot.py at 2019-07-18 19:04:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 290.16 Mbit/s
95th percentile per-packet one-way delay: 55.684 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 290.16 Mbit/s
95th percentile per-packet one-way delay: 55.684 ms
Loss rate: 0.26%

Run 4: Report of Copa — Data Link

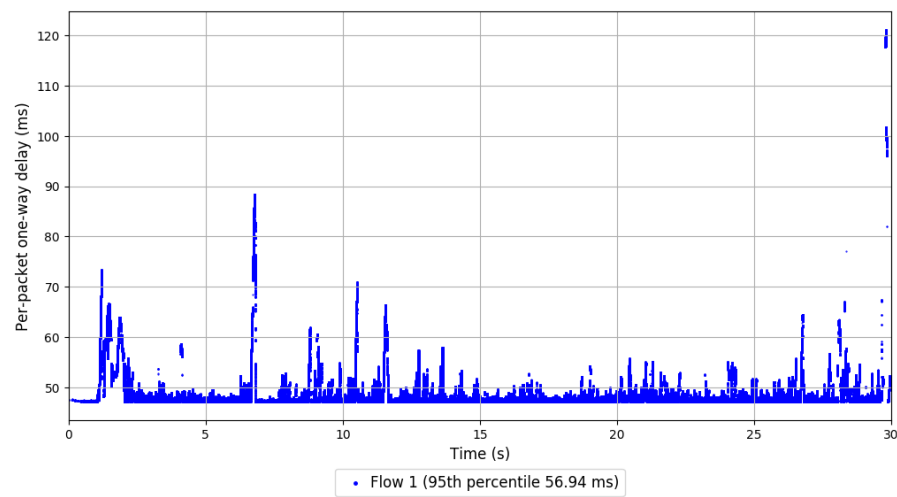
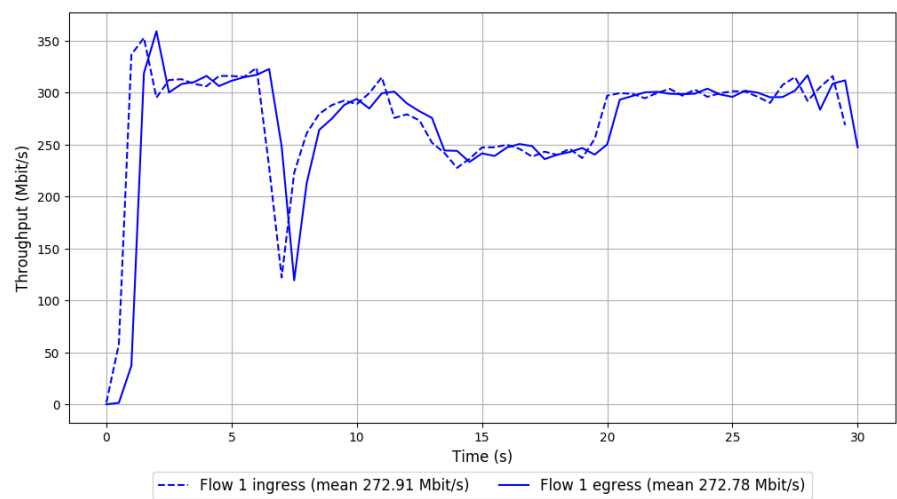


Run 5: Statistics of Copa

Start at: 2019-07-18 18:00:38
End at: 2019-07-18 18:01:09
Local clock offset: -0.175 ms
Remote clock offset: -0.087 ms

Below is generated by plot.py at 2019-07-18 19:04:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 272.78 Mbit/s
95th percentile per-packet one-way delay: 56.942 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 272.78 Mbit/s
95th percentile per-packet one-way delay: 56.942 ms
Loss rate: 0.36%

Run 5: Report of Copa — Data Link

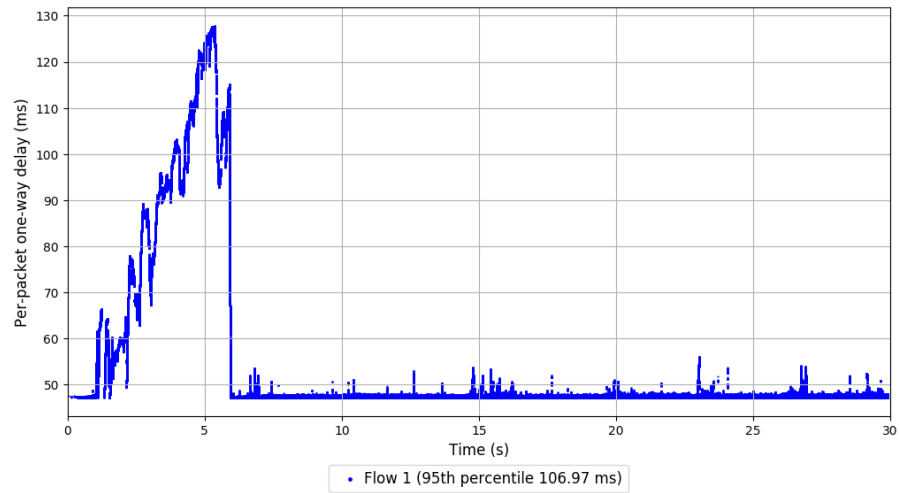
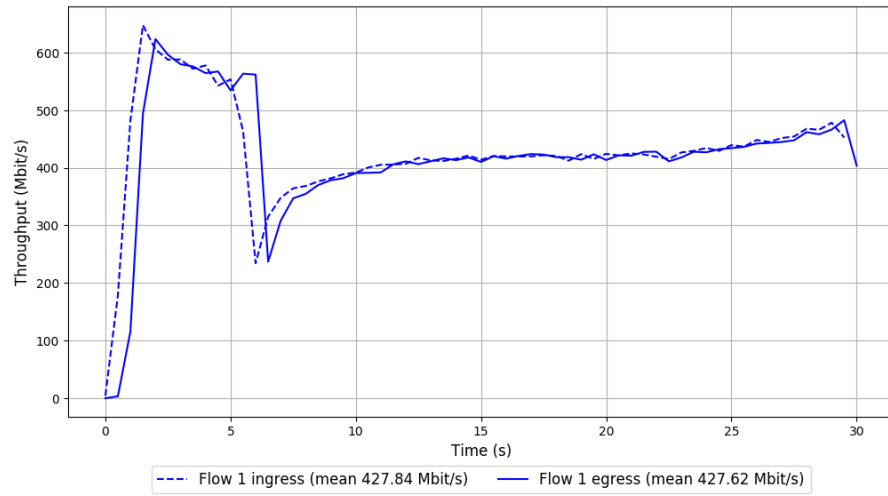


Run 1: Statistics of TCP Cubic

Start at: 2019-07-18 15:57:47
End at: 2019-07-18 15:58:17
Local clock offset: -0.043 ms
Remote clock offset: -0.081 ms

Below is generated by plot.py at 2019-07-18 19:04:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 427.62 Mbit/s
95th percentile per-packet one-way delay: 106.965 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 427.62 Mbit/s
95th percentile per-packet one-way delay: 106.965 ms
Loss rate: 0.37%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-07-18 16:32:03

End at: 2019-07-18 16:32:33

Local clock offset: -0.094 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2019-07-18 19:04:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 503.12 Mbit/s

95th percentile per-packet one-way delay: 68.647 ms

Loss rate: 0.43%

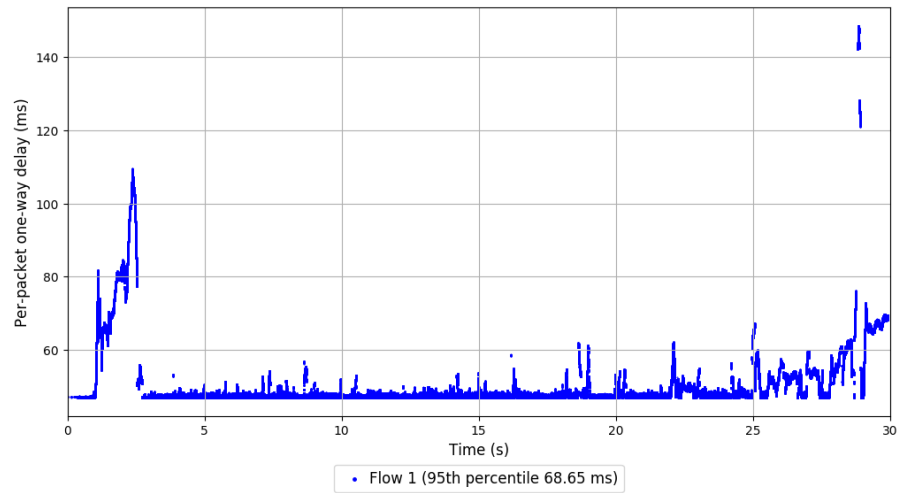
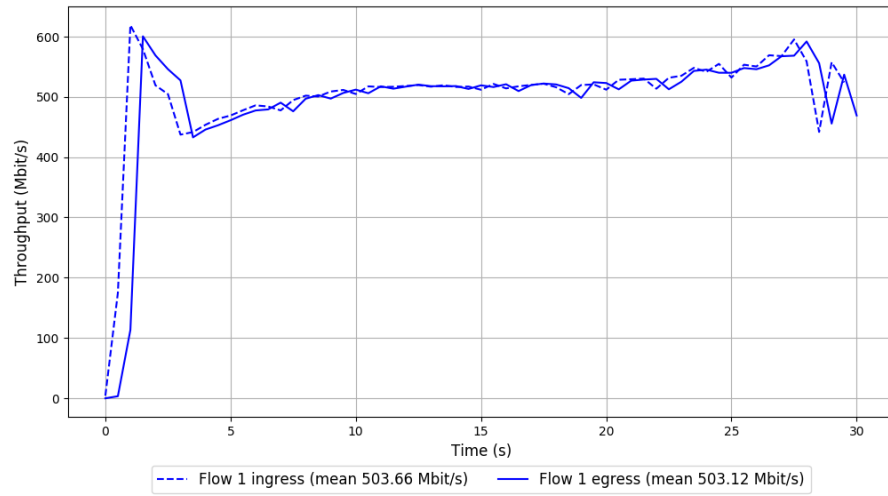
-- Flow 1:

Average throughput: 503.12 Mbit/s

95th percentile per-packet one-way delay: 68.647 ms

Loss rate: 0.43%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-07-18 17:06:47

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

Local clock offset: -0.162 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2019-07-18 19:05:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 561.27 Mbit/s

95th percentile per-packet one-way delay: 121.993 ms

Loss rate: 0.36%

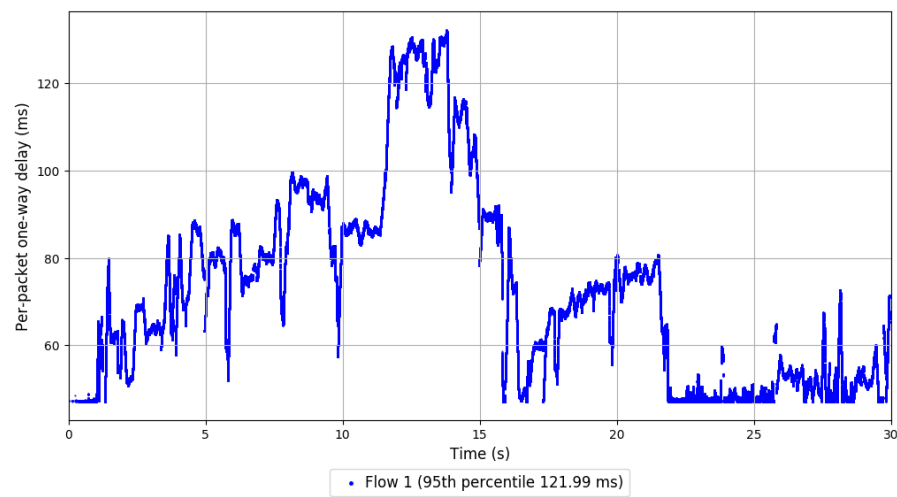
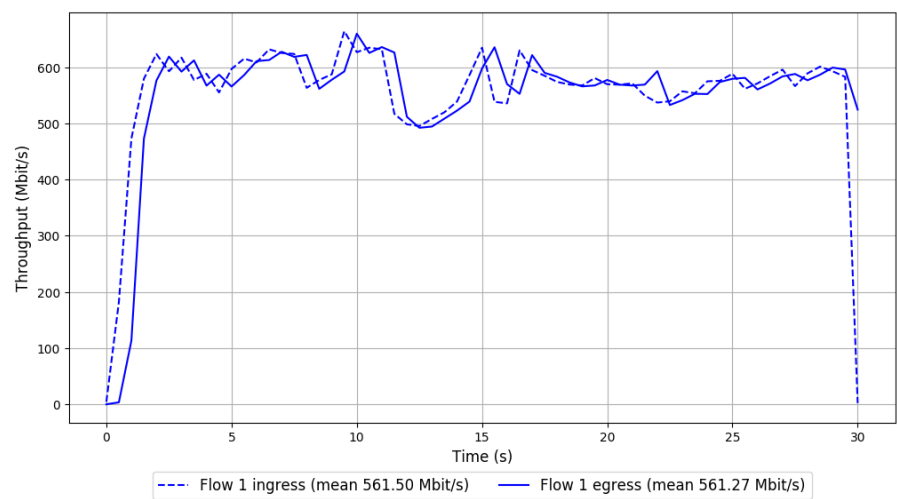
-- Flow 1:

Average throughput: 561.27 Mbit/s

95th percentile per-packet one-way delay: 121.993 ms

Loss rate: 0.36%

Run 3: Report of TCP Cubic — Data Link

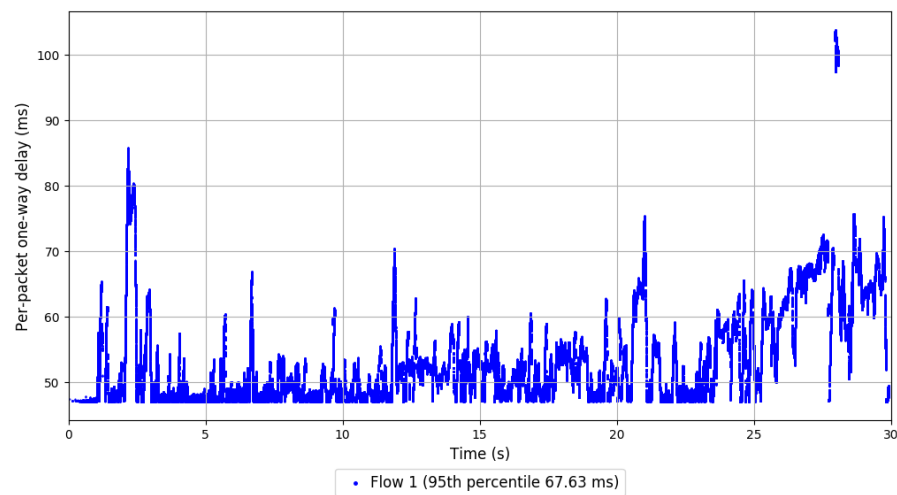
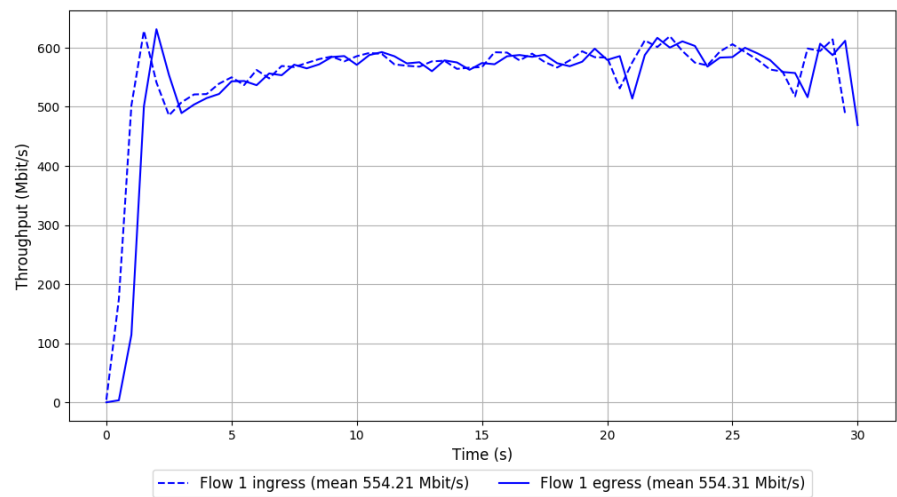


Run 4: Statistics of TCP Cubic

Start at: 2019-07-18 17:41:21
End at: 2019-07-18 17:41:51
Local clock offset: -0.113 ms
Remote clock offset: -0.032 ms

Below is generated by plot.py at 2019-07-18 19:05:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 554.31 Mbit/s
95th percentile per-packet one-way delay: 67.632 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 554.31 Mbit/s
95th percentile per-packet one-way delay: 67.632 ms
Loss rate: 0.30%

Run 4: Report of TCP Cubic — Data Link

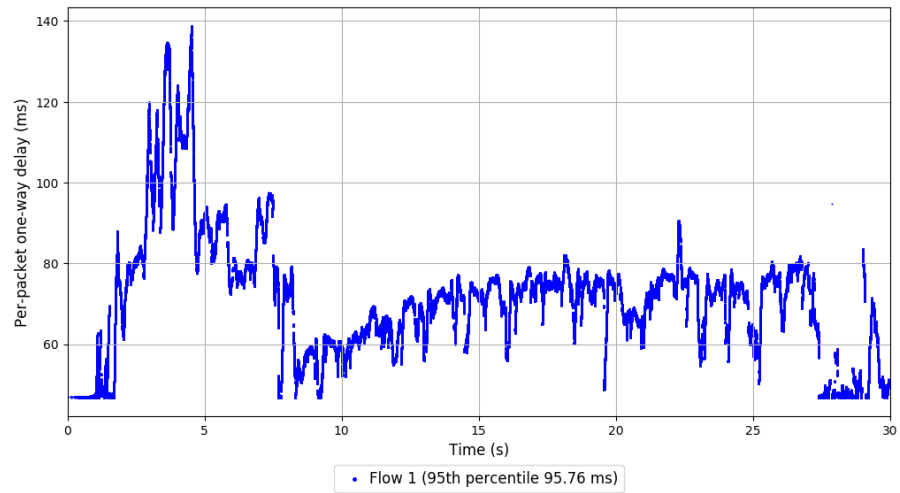
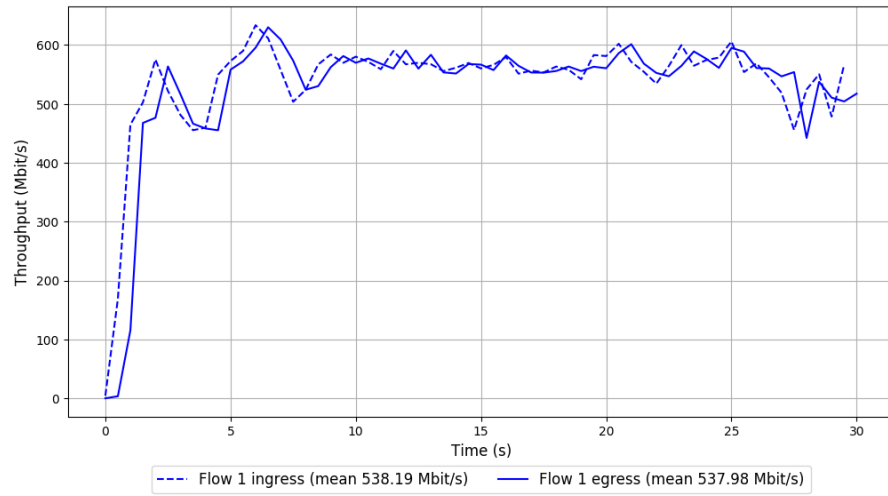


Run 5: Statistics of TCP Cubic

Start at: 2019-07-18 18:16:20
End at: 2019-07-18 18:16:50
Local clock offset: -0.468 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2019-07-18 19:05:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 537.98 Mbit/s
95th percentile per-packet one-way delay: 95.759 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 537.98 Mbit/s
95th percentile per-packet one-way delay: 95.759 ms
Loss rate: 0.35%

Run 5: Report of TCP Cubic — Data Link

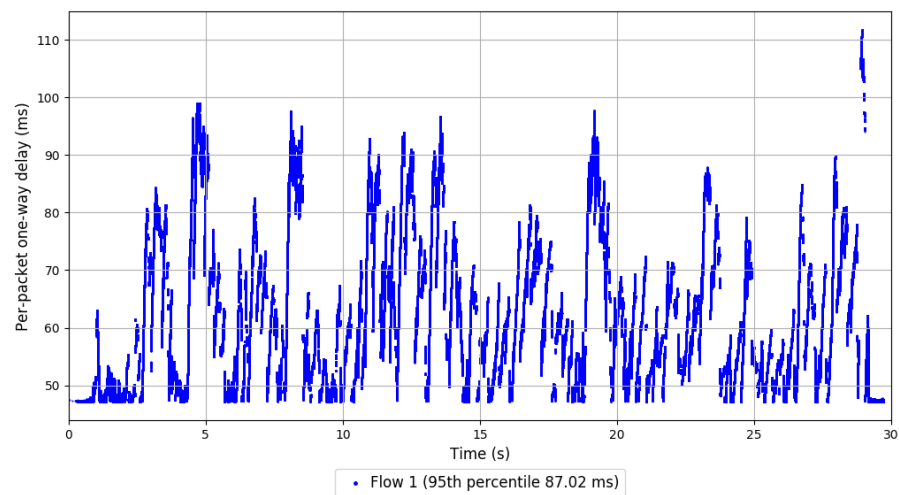
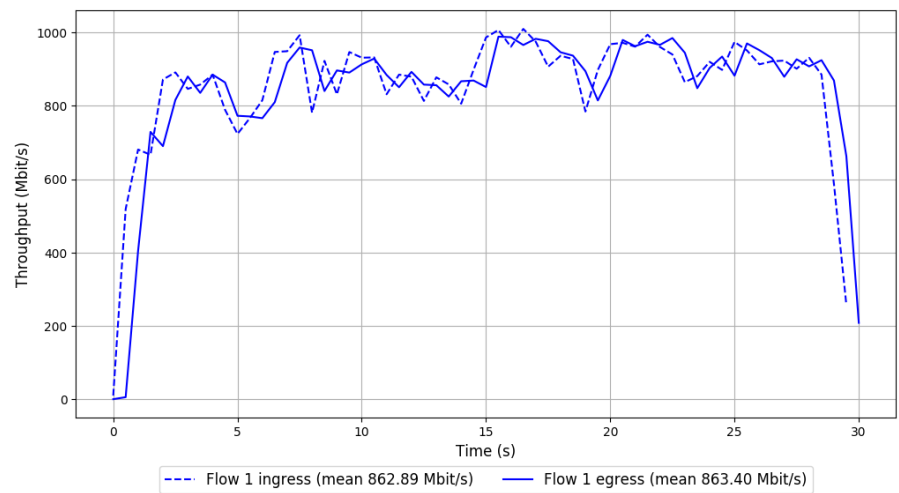


Run 1: Statistics of FillP

Start at: 2019-07-18 16:09:25
End at: 2019-07-18 16:09:55
Local clock offset: -0.042 ms
Remote clock offset: -0.004 ms

Below is generated by plot.py at 2019-07-18 19:12:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 863.40 Mbit/s
95th percentile per-packet one-way delay: 87.017 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 863.40 Mbit/s
95th percentile per-packet one-way delay: 87.017 ms
Loss rate: 0.26%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-07-18 16:44:16

End at: 2019-07-18 16:44:46

Local clock offset: -0.162 ms

Remote clock offset: 0.039 ms

Below is generated by plot.py at 2019-07-18 19:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 872.30 Mbit/s

95th percentile per-packet one-way delay: 106.396 ms

Loss rate: 0.74%

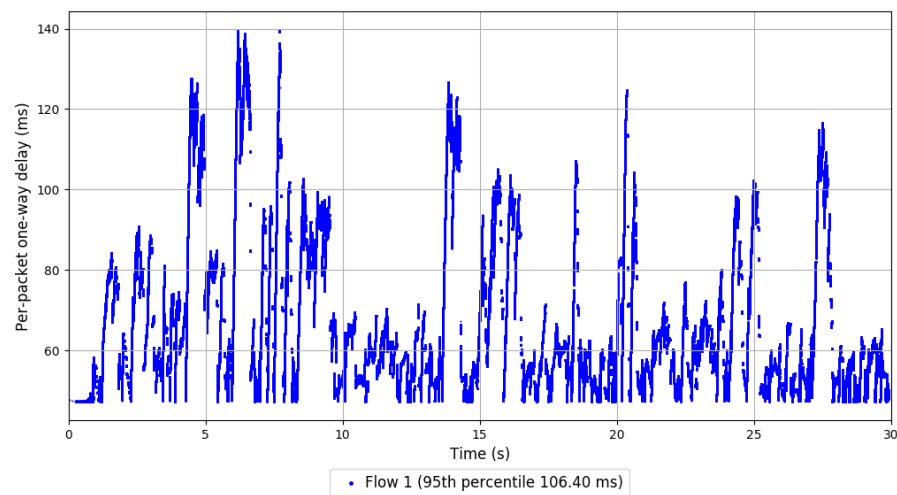
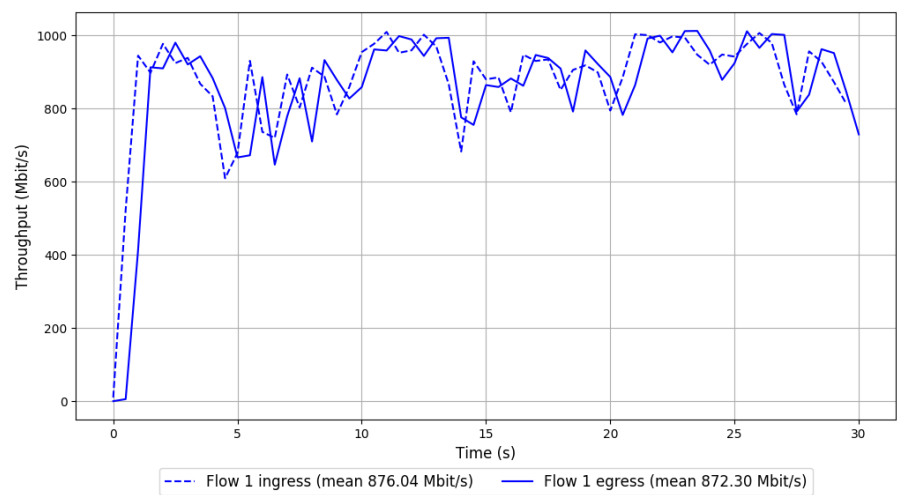
-- Flow 1:

Average throughput: 872.30 Mbit/s

95th percentile per-packet one-way delay: 106.396 ms

Loss rate: 0.74%

Run 2: Report of FillP — Data Link

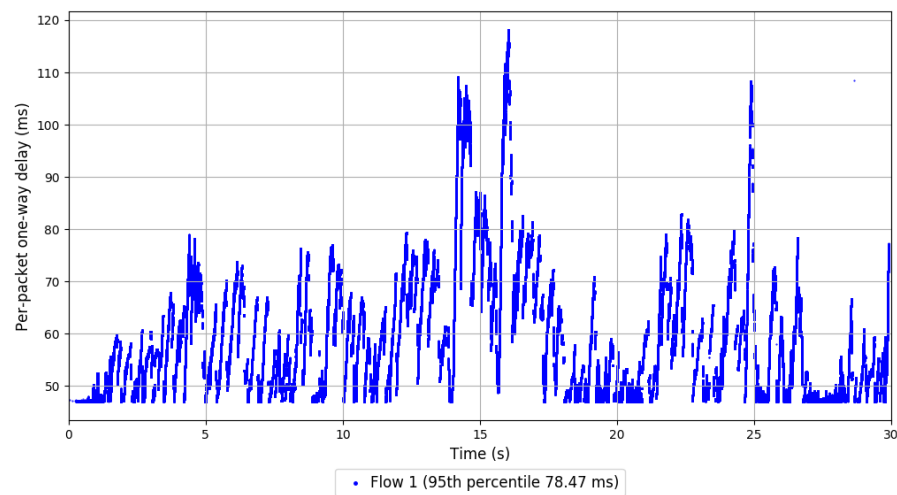
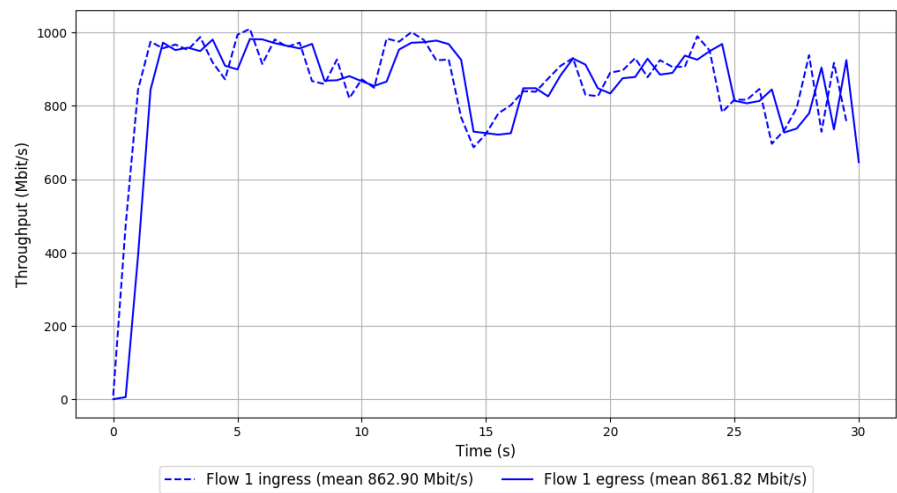


Run 3: Statistics of FillP

Start at: 2019-07-18 17:18:42
End at: 2019-07-18 17:19:12
Local clock offset: -0.086 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2019-07-18 19:22:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 861.82 Mbit/s
95th percentile per-packet one-way delay: 78.472 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 861.82 Mbit/s
95th percentile per-packet one-way delay: 78.472 ms
Loss rate: 0.43%

Run 3: Report of FillP — Data Link

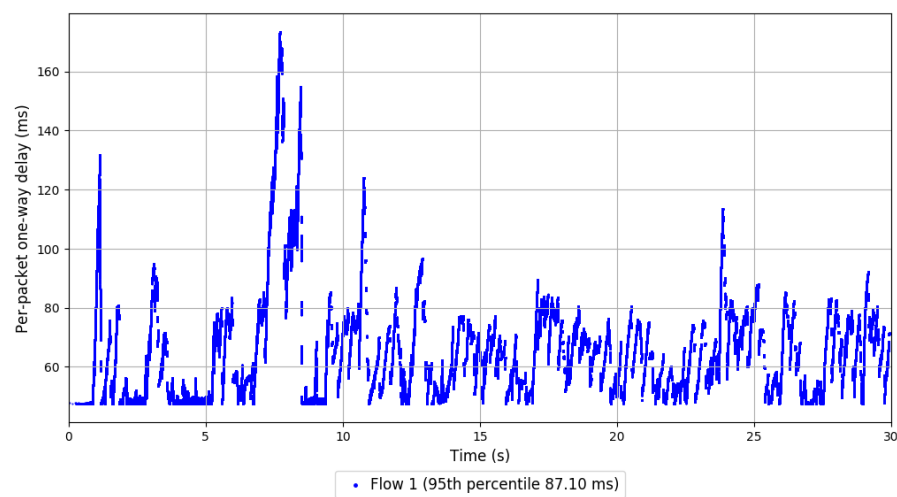
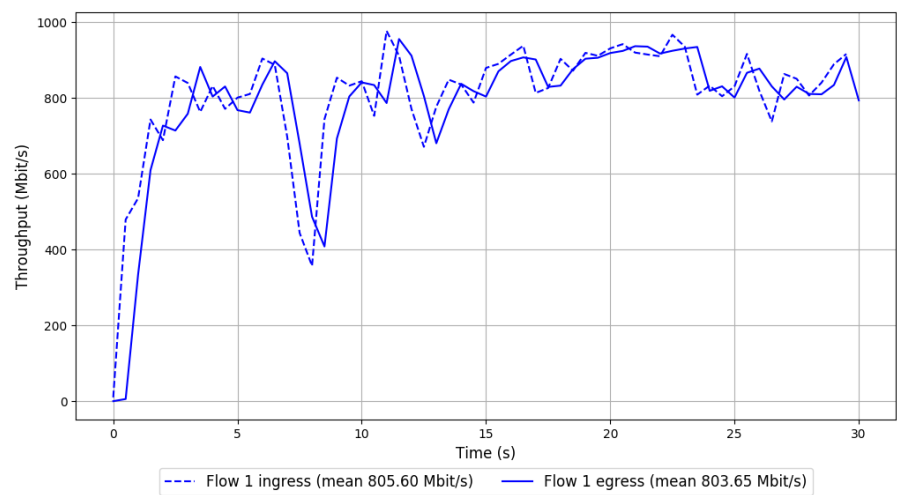


Run 4: Statistics of FillP

Start at: 2019-07-18 17:53:32
End at: 2019-07-18 17:54:02
Local clock offset: 0.241 ms
Remote clock offset: -0.034 ms

Below is generated by plot.py at 2019-07-18 19:22:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 803.65 Mbit/s
95th percentile per-packet one-way delay: 87.104 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 803.65 Mbit/s
95th percentile per-packet one-way delay: 87.104 ms
Loss rate: 0.56%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-07-18 18:28:29

End at: 2019-07-18 18:28:59

Local clock offset: -0.036 ms

Remote clock offset: 0.0 ms

Below is generated by plot.py at 2019-07-18 19:22:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 870.89 Mbit/s

95th percentile per-packet one-way delay: 104.883 ms

Loss rate: 0.53%

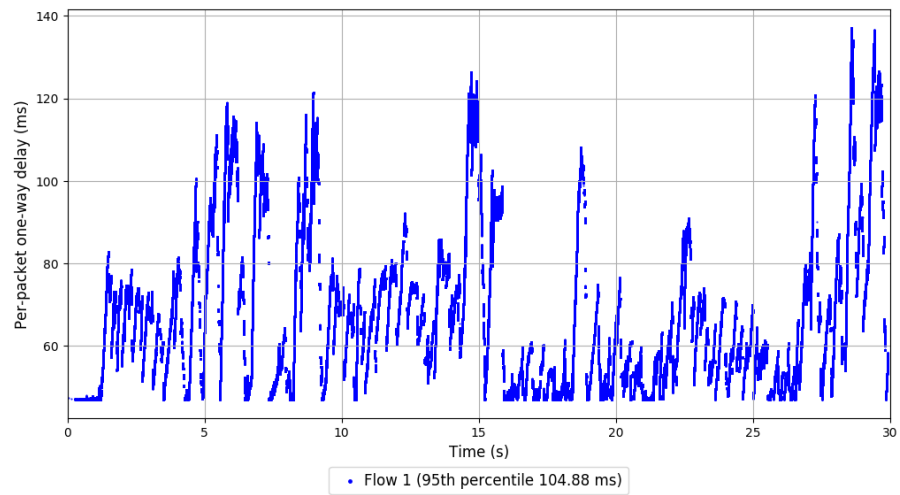
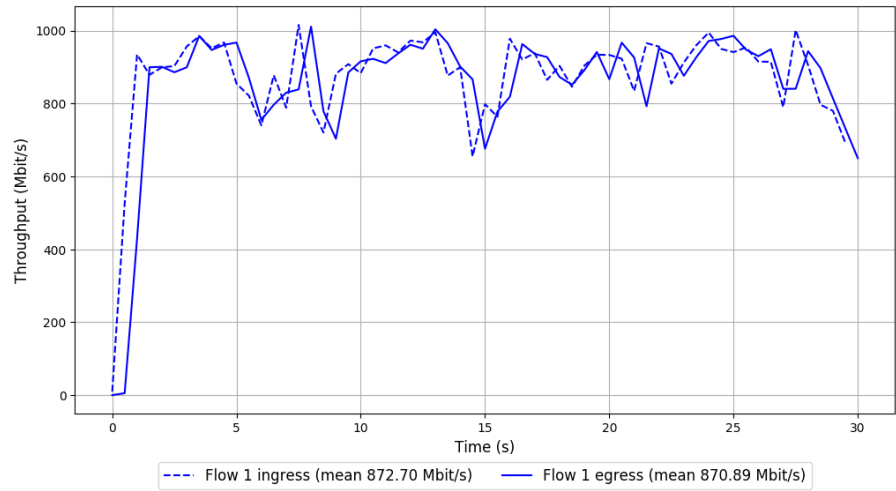
-- Flow 1:

Average throughput: 870.89 Mbit/s

95th percentile per-packet one-way delay: 104.883 ms

Loss rate: 0.53%

Run 5: Report of FillP — Data Link

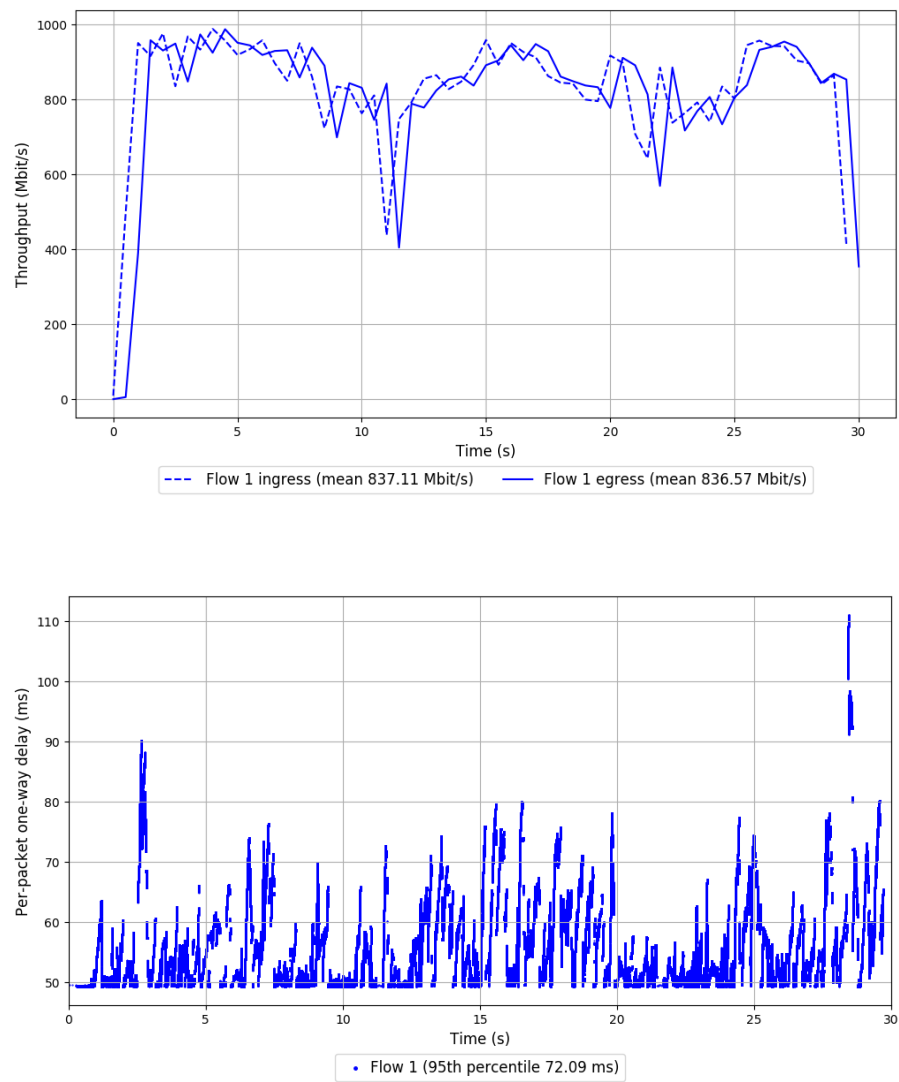


Run 1: Statistics of FillP-Sheep

Start at: 2019-07-18 16:00:22
End at: 2019-07-18 16:00:52
Local clock offset: -0.029 ms
Remote clock offset: -0.081 ms

Below is generated by plot.py at 2019-07-18 19:22:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 836.57 Mbit/s
95th percentile per-packet one-way delay: 72.089 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 836.57 Mbit/s
95th percentile per-packet one-way delay: 72.089 ms
Loss rate: 0.39%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-07-18 16:35:03

End at: 2019-07-18 16:35:33

Local clock offset: 0.283 ms

Remote clock offset: 0.037 ms

Below is generated by plot.py at 2019-07-18 19:23:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 872.72 Mbit/s

95th percentile per-packet one-way delay: 77.644 ms

Loss rate: 0.46%

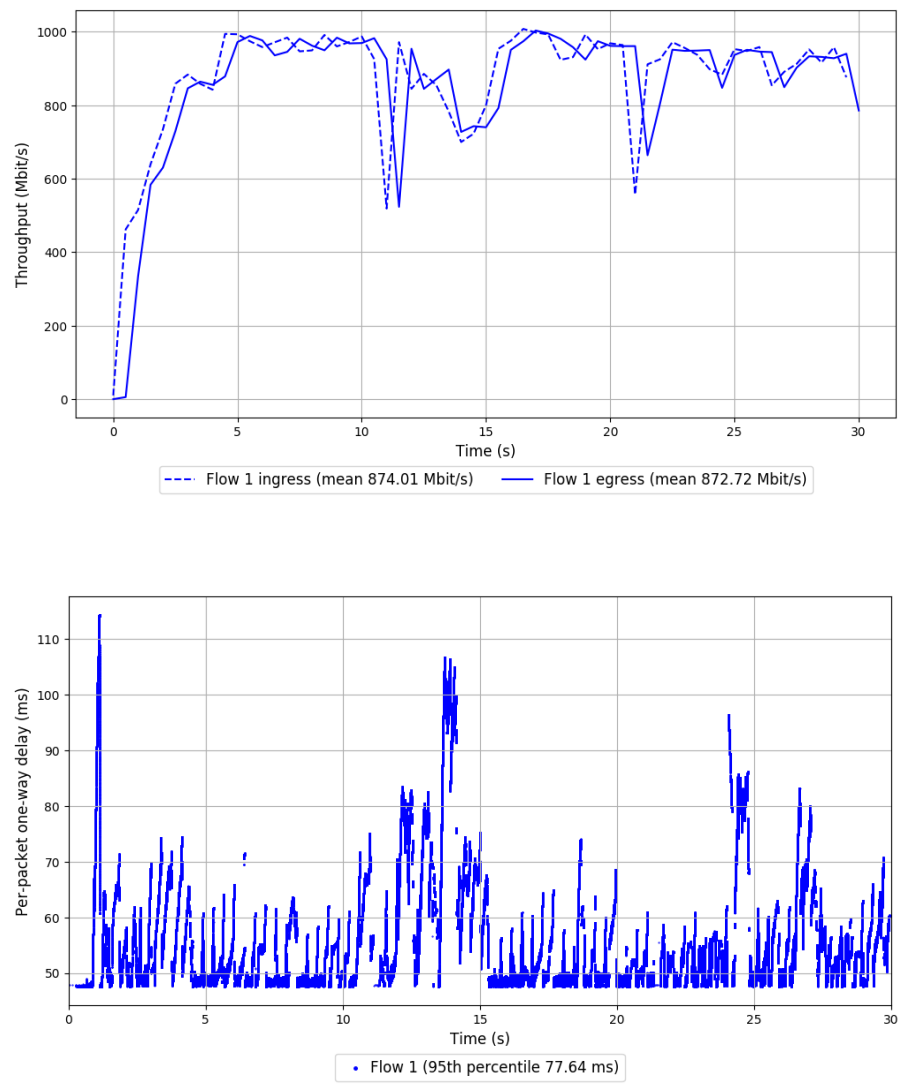
-- Flow 1:

Average throughput: 872.72 Mbit/s

95th percentile per-packet one-way delay: 77.644 ms

Loss rate: 0.46%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-07-18 17:09:49

End at: 2019-07-18 17:10:19

Local clock offset: -0.113 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2019-07-18 19:23:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 850.72 Mbit/s

95th percentile per-packet one-way delay: 84.679 ms

Loss rate: 0.39%

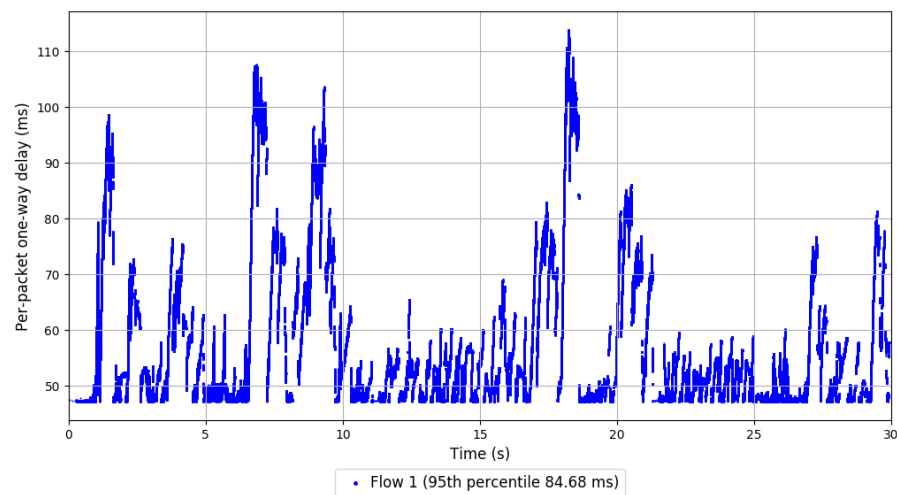
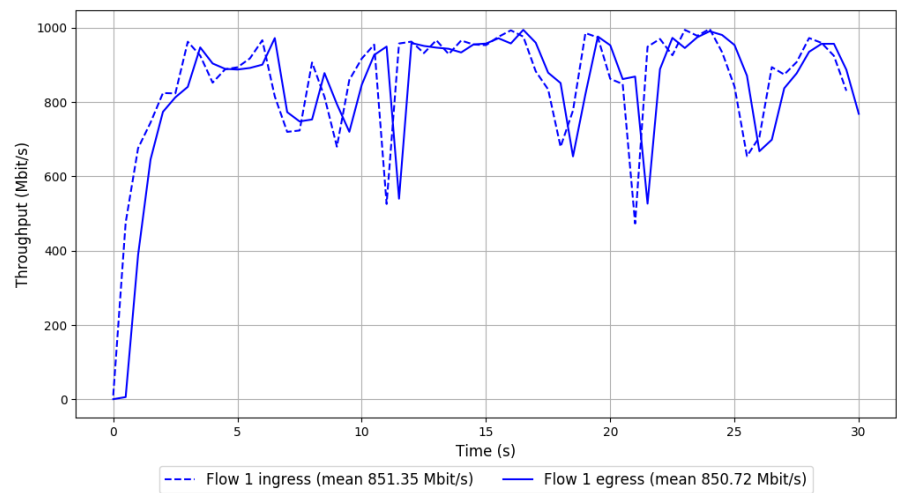
-- Flow 1:

Average throughput: 850.72 Mbit/s

95th percentile per-packet one-way delay: 84.679 ms

Loss rate: 0.39%

Run 3: Report of FillP-Sheep — Data Link

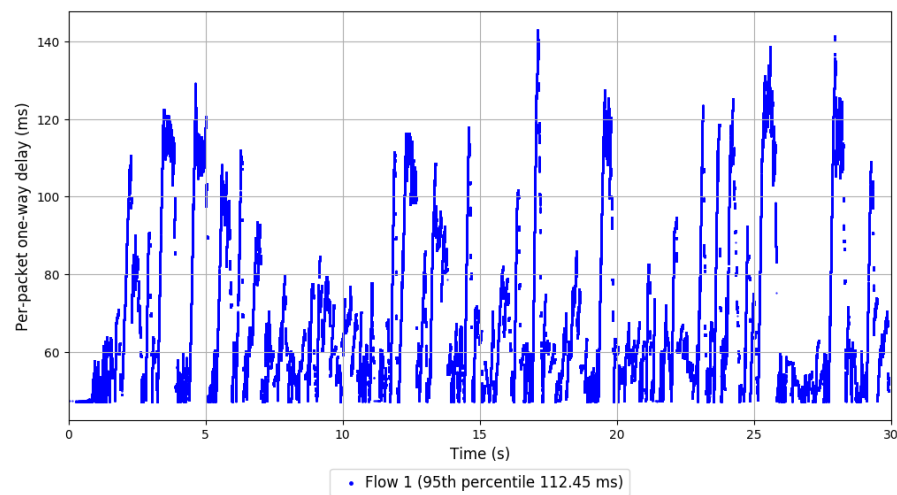
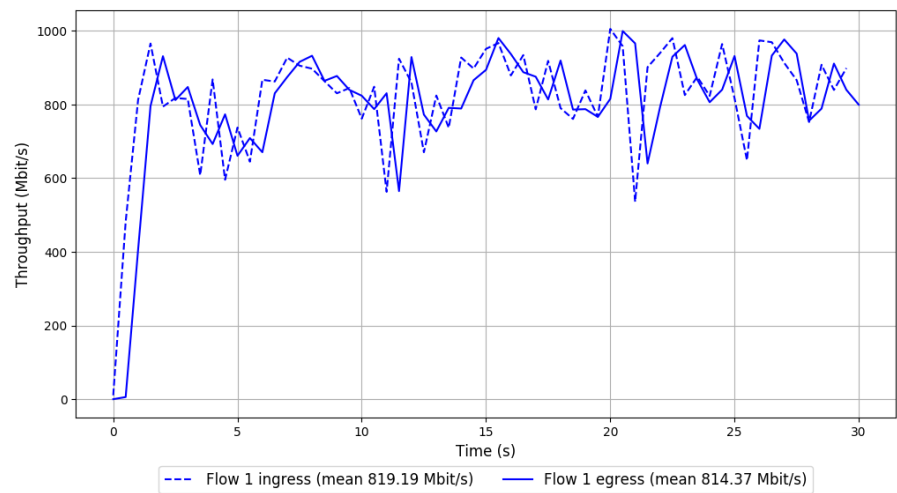


Run 4: Statistics of FillP-Sheep

Start at: 2019-07-18 17:44:23
End at: 2019-07-18 17:44:53
Local clock offset: -0.099 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2019-07-18 19:32:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 814.37 Mbit/s
95th percentile per-packet one-way delay: 112.455 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 814.37 Mbit/s
95th percentile per-packet one-way delay: 112.455 ms
Loss rate: 0.91%

Run 4: Report of FillP-Sheep — Data Link

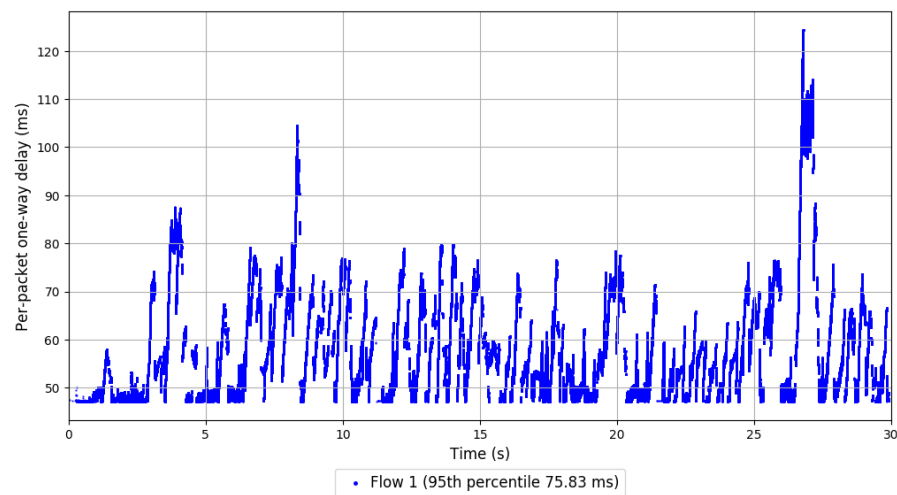
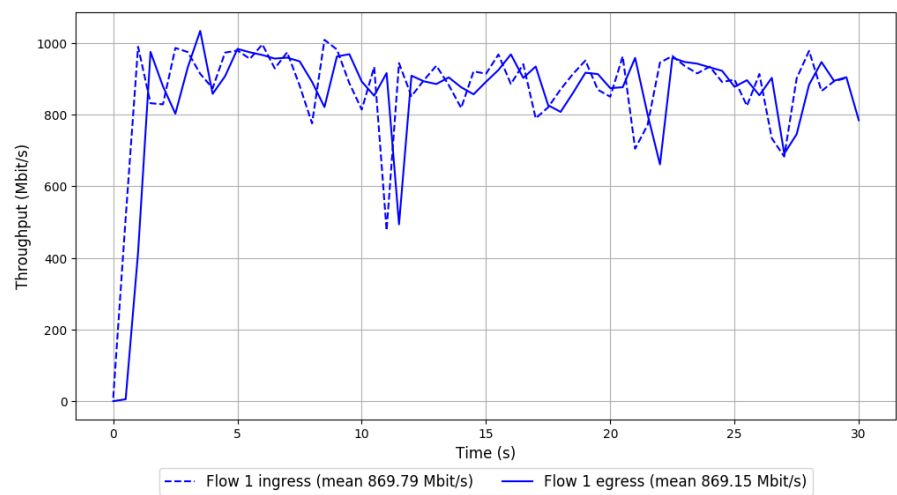


Run 5: Statistics of FillP-Sheep

Start at: 2019-07-18 18:19:20
End at: 2019-07-18 18:19:50
Local clock offset: -0.131 ms
Remote clock offset: -0.051 ms

Below is generated by plot.py at 2019-07-18 19:38:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 869.15 Mbit/s
95th percentile per-packet one-way delay: 75.826 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 869.15 Mbit/s
95th percentile per-packet one-way delay: 75.826 ms
Loss rate: 0.39%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

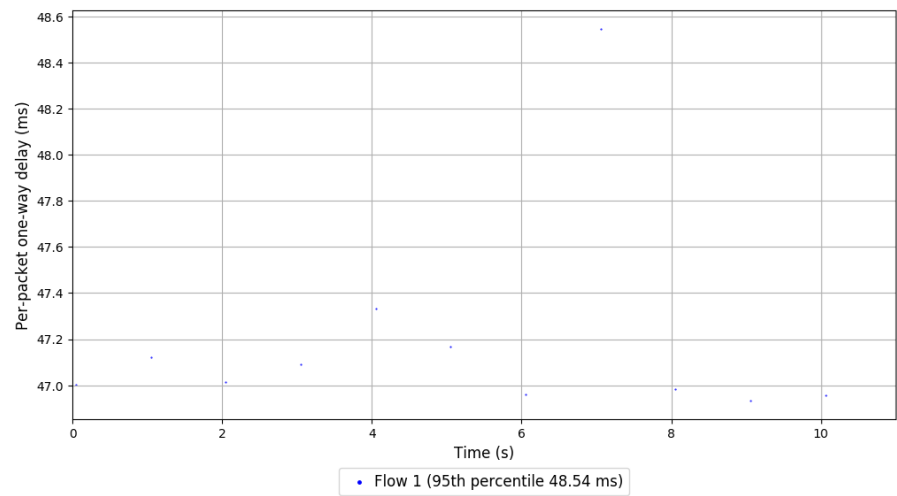
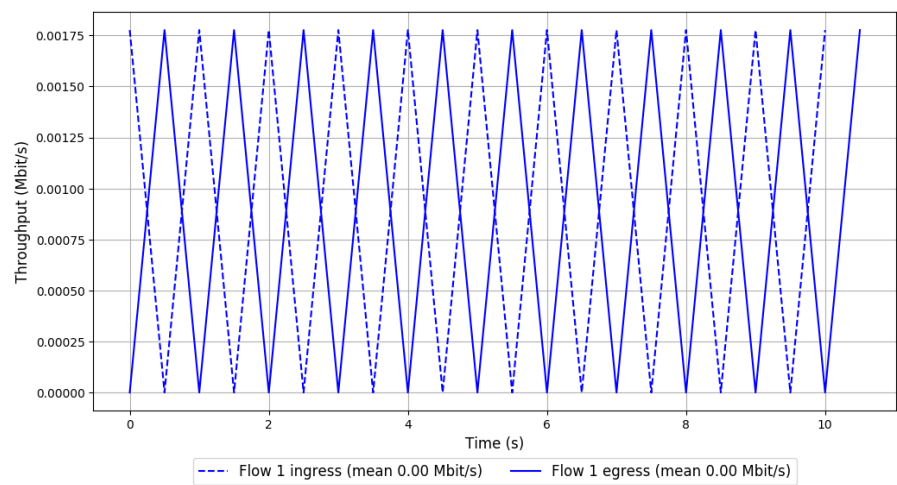
Start at: 2019-07-18 15:59:14

End at: 2019-07-18 15:59:44

Local clock offset: -0.445 ms

Remote clock offset: -0.043 ms

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-07-18 16:33:35

End at: 2019-07-18 16:34:05

Local clock offset: -0.107 ms

Remote clock offset: 0.04 ms

Below is generated by plot.py at 2019-07-18 19:38:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 234.27 Mbit/s

95th percentile per-packet one-way delay: 48.362 ms

Loss rate: 0.32%

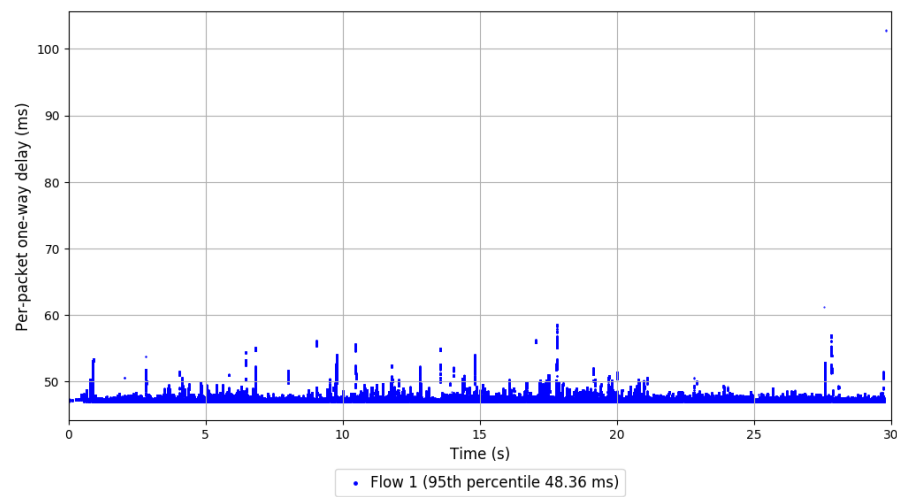
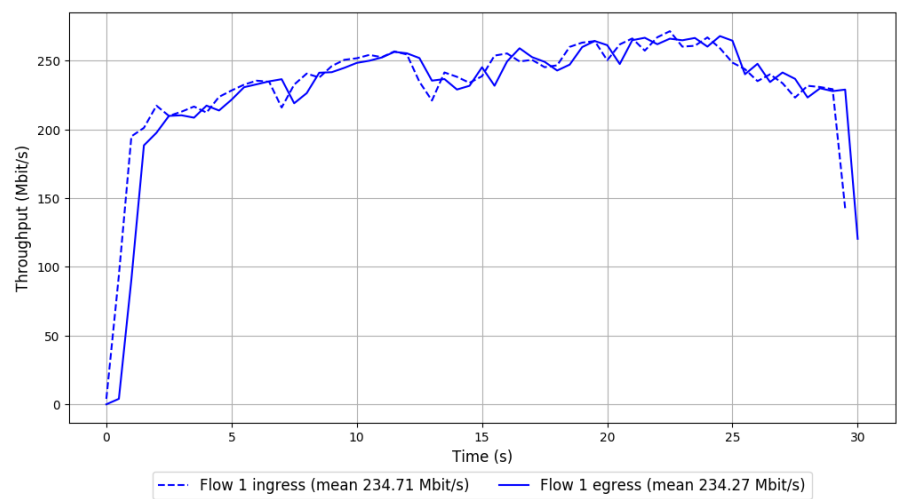
-- Flow 1:

Average throughput: 234.27 Mbit/s

95th percentile per-packet one-way delay: 48.362 ms

Loss rate: 0.32%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-07-18 17:08:21

End at: 2019-07-18 17:08:51

Local clock offset: -0.148 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2019-07-18 19:38:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 234.82 Mbit/s

95th percentile per-packet one-way delay: 48.578 ms

Loss rate: 0.33%

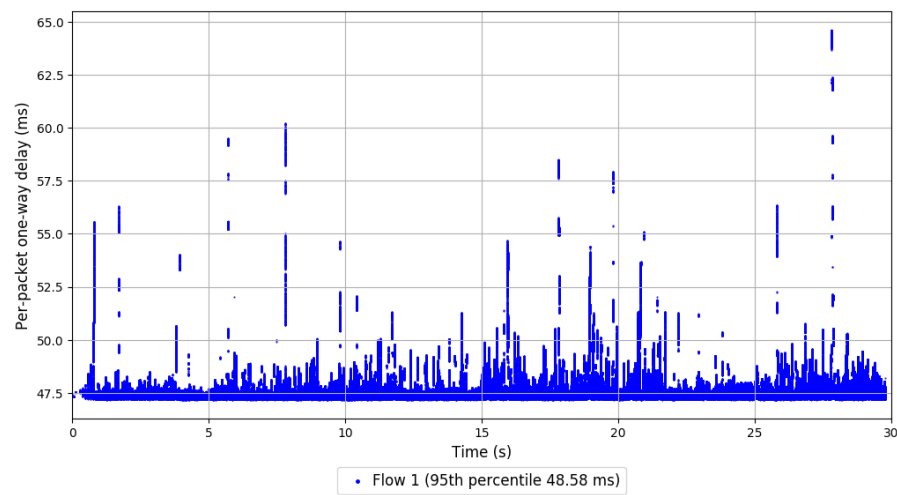
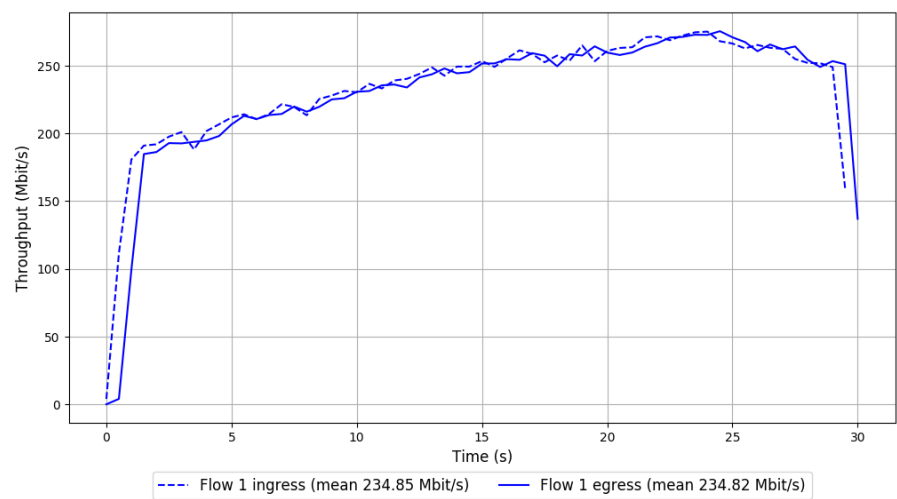
-- Flow 1:

Average throughput: 234.82 Mbit/s

95th percentile per-packet one-way delay: 48.578 ms

Loss rate: 0.33%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-07-18 17:42:55

End at: 2019-07-18 17:43:25

Local clock offset: -0.114 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2019-07-18 19:38:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.95 Mbit/s

95th percentile per-packet one-way delay: 48.401 ms

Loss rate: 0.36%

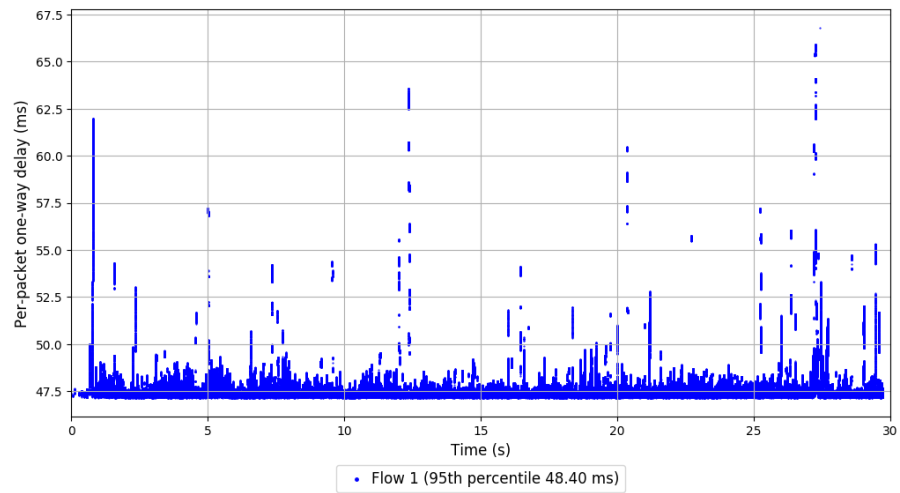
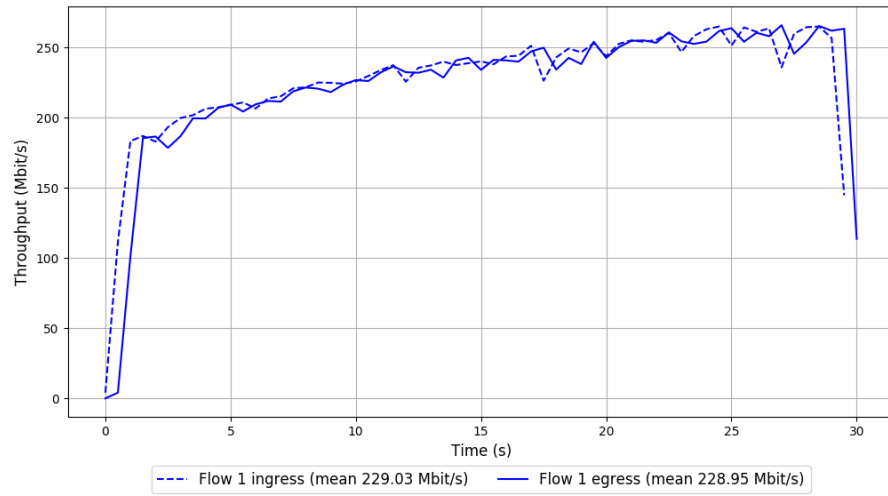
-- Flow 1:

Average throughput: 228.95 Mbit/s

95th percentile per-packet one-way delay: 48.401 ms

Loss rate: 0.36%

Run 4: Report of Indigo — Data Link

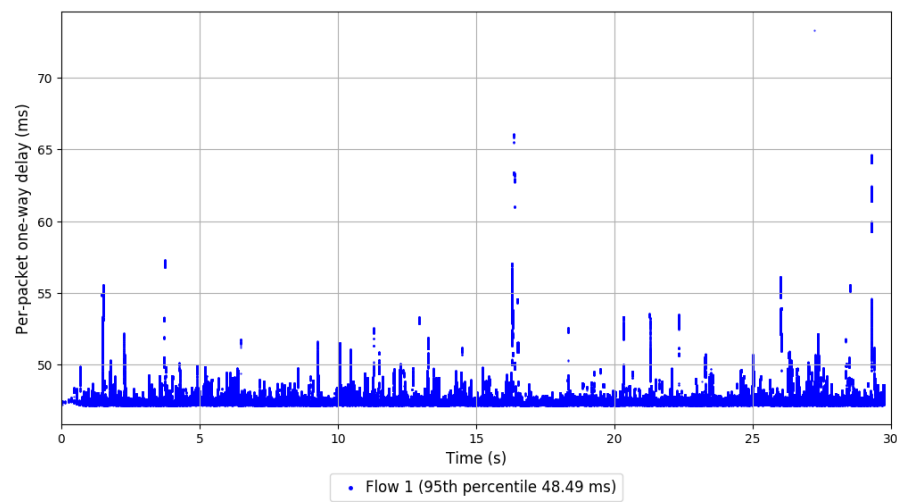
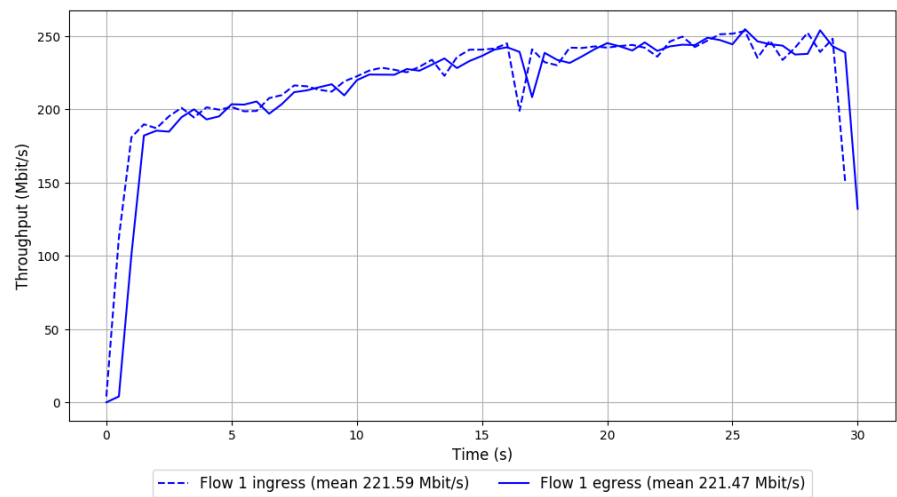


Run 5: Statistics of Indigo

Start at: 2019-07-18 18:17:53
End at: 2019-07-18 18:18:23
Local clock offset: -0.078 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2019-07-18 19:38:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 221.47 Mbit/s
95th percentile per-packet one-way delay: 48.495 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 221.47 Mbit/s
95th percentile per-packet one-way delay: 48.495 ms
Loss rate: 0.37%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-07-18 16:12:13

End at: 2019-07-18 16:12:43

Local clock offset: -0.434 ms

Remote clock offset: 0.03 ms

Below is generated by plot.py at 2019-07-18 19:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 602.23 Mbit/s

95th percentile per-packet one-way delay: 68.528 ms

Loss rate: 0.40%

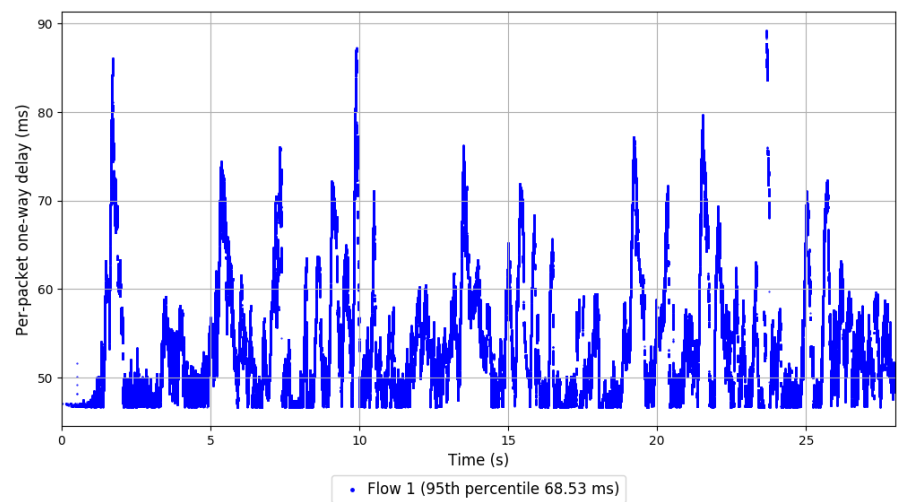
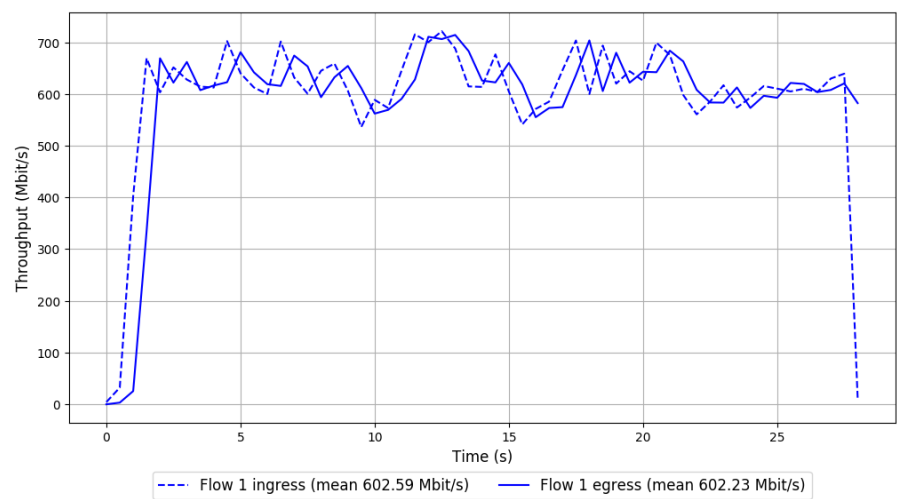
-- Flow 1:

Average throughput: 602.23 Mbit/s

95th percentile per-packet one-way delay: 68.528 ms

Loss rate: 0.40%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-07-18 16:47:04

End at: 2019-07-18 16:47:34

Local clock offset: -0.165 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2019-07-18 19:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 569.95 Mbit/s

95th percentile per-packet one-way delay: 57.055 ms

Loss rate: 0.36%

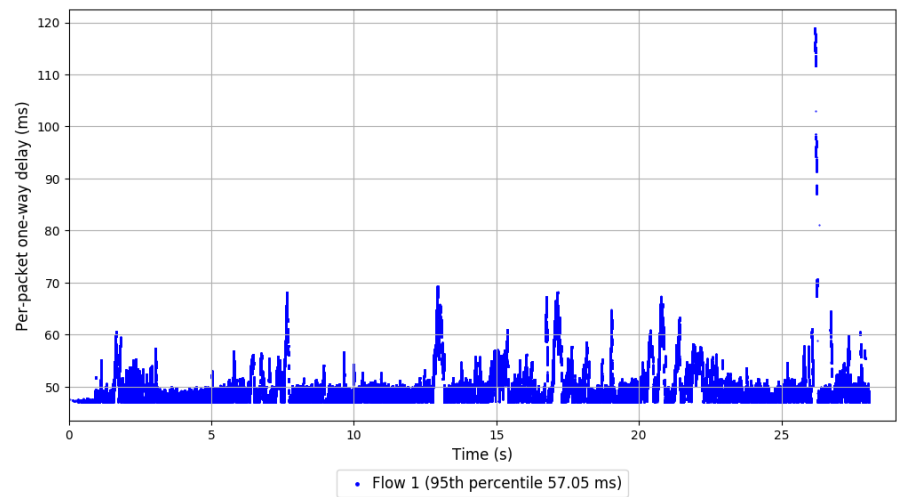
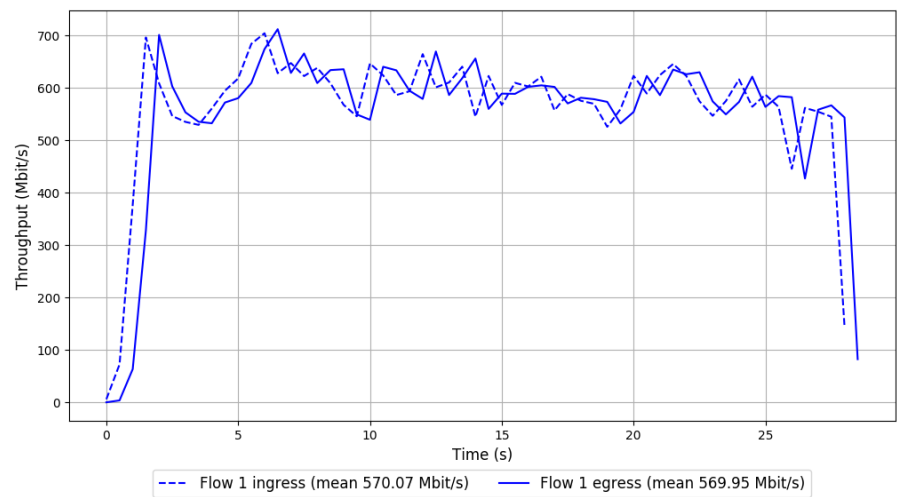
-- Flow 1:

Average throughput: 569.95 Mbit/s

95th percentile per-packet one-way delay: 57.055 ms

Loss rate: 0.36%

Run 2: Report of Indigo-MusesC3 — Data Link

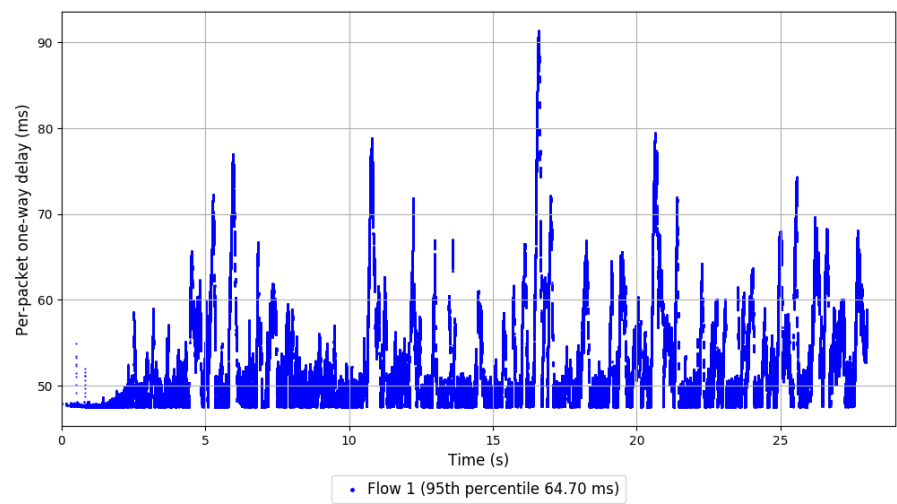
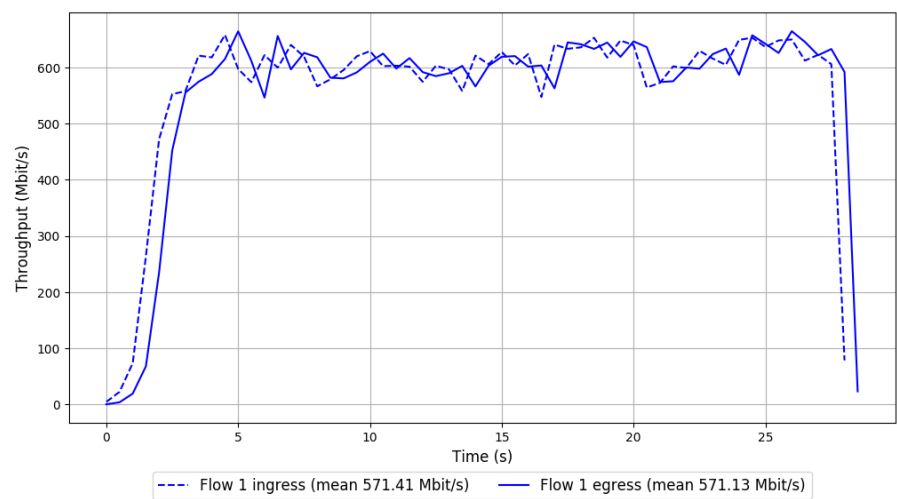


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-07-18 17:21:31
End at: 2019-07-18 17:22:01
Local clock offset: 0.256 ms
Remote clock offset: -0.042 ms

Below is generated by plot.py at 2019-07-18 19:38:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 571.13 Mbit/s
95th percentile per-packet one-way delay: 64.698 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 571.13 Mbit/s
95th percentile per-packet one-way delay: 64.698 ms
Loss rate: 0.39%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-07-18 17:56:18

End at: 2019-07-18 17:56:49

Local clock offset: -0.149 ms

Remote clock offset: -0.07 ms

Below is generated by plot.py at 2019-07-18 19:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 571.77 Mbit/s

95th percentile per-packet one-way delay: 62.013 ms

Loss rate: 0.38%

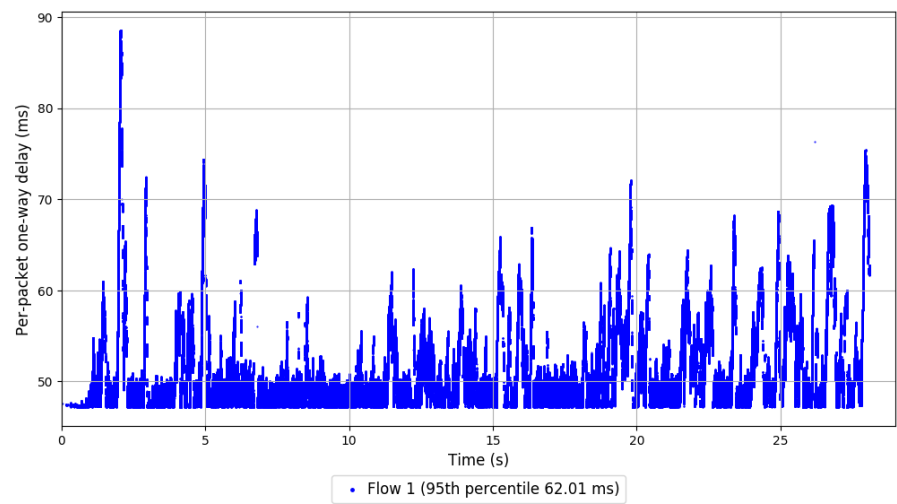
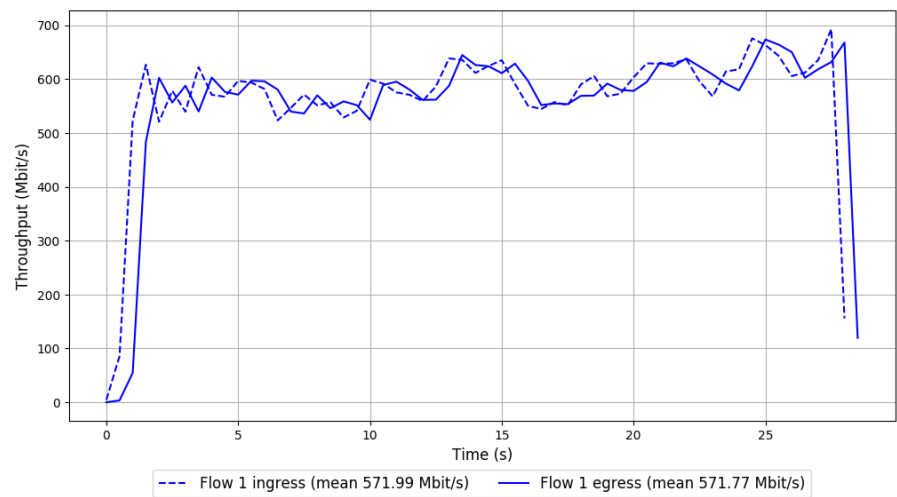
-- Flow 1:

Average throughput: 571.77 Mbit/s

95th percentile per-packet one-way delay: 62.013 ms

Loss rate: 0.38%

Run 4: Report of Indigo-MusesC3 — Data Link

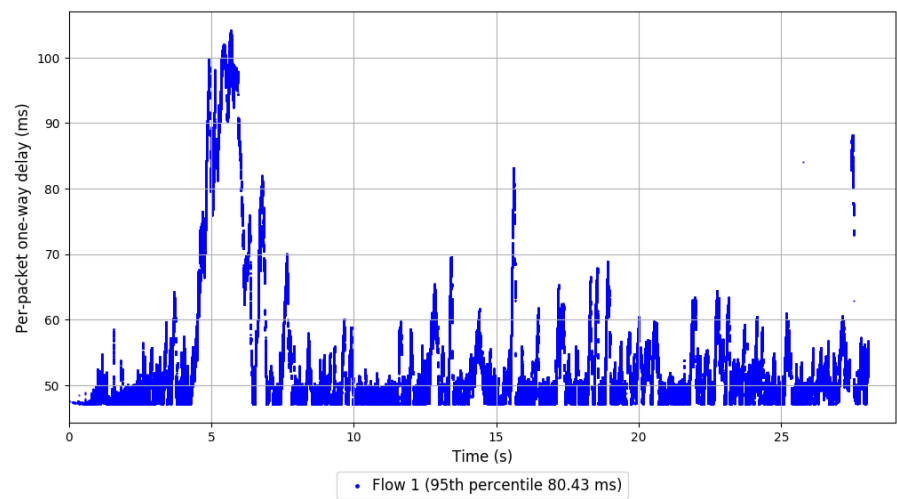
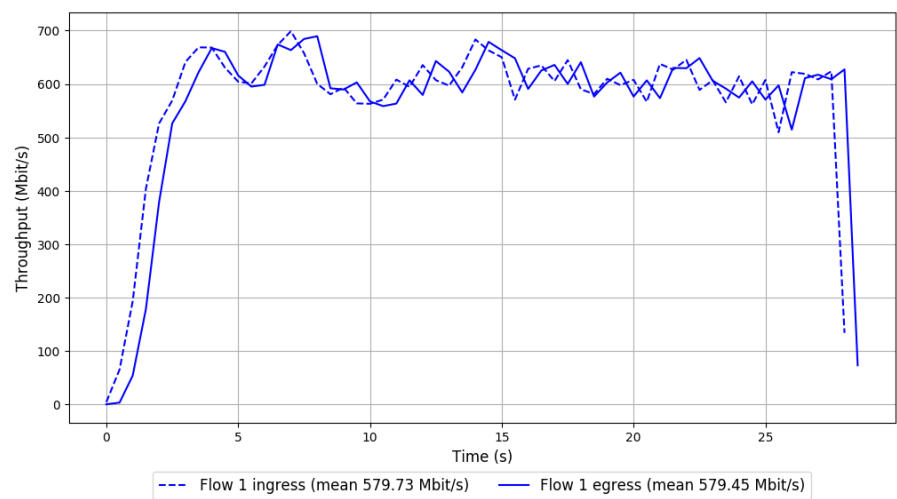


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-07-18 18:31:19
End at: 2019-07-18 18:31:49
Local clock offset: -0.08 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2019-07-18 19:38:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 579.45 Mbit/s
95th percentile per-packet one-way delay: 80.426 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 579.45 Mbit/s
95th percentile per-packet one-way delay: 80.426 ms
Loss rate: 0.39%

Run 5: Report of Indigo-MusesC3 — Data Link

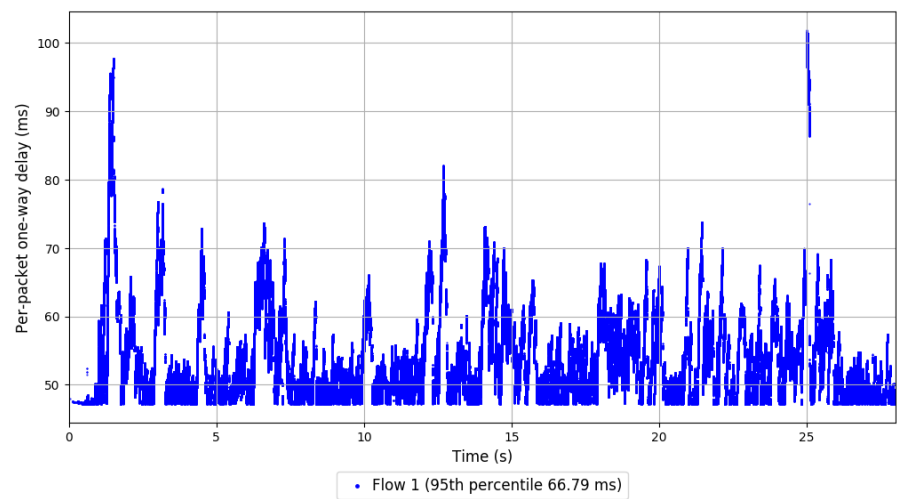
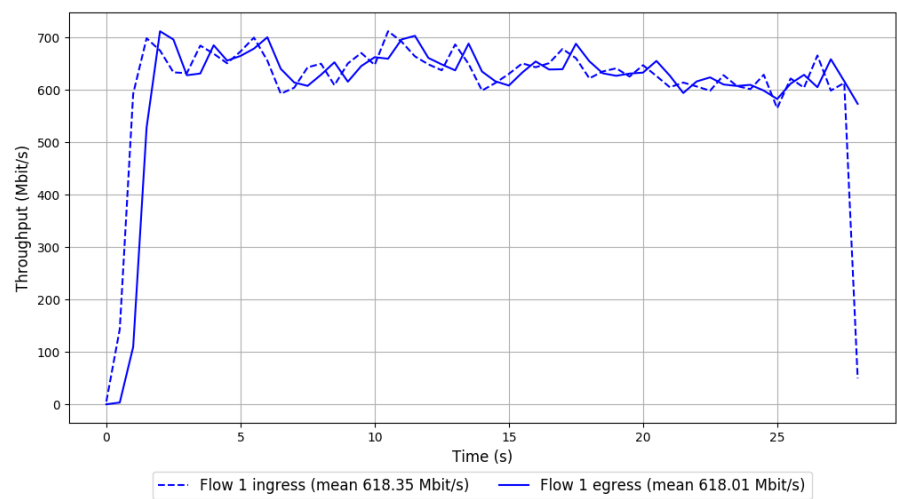


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-07-18 16:04:58
End at: 2019-07-18 16:05:28
Local clock offset: -0.023 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2019-07-18 19:39:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 618.01 Mbit/s
95th percentile per-packet one-way delay: 66.793 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 618.01 Mbit/s
95th percentile per-packet one-way delay: 66.793 ms
Loss rate: 0.40%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-07-18 16:39:47

End at: 2019-07-18 16:40:17

Local clock offset: -0.134 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2019-07-18 19:42:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 584.96 Mbit/s

95th percentile per-packet one-way delay: 71.898 ms

Loss rate: 0.42%

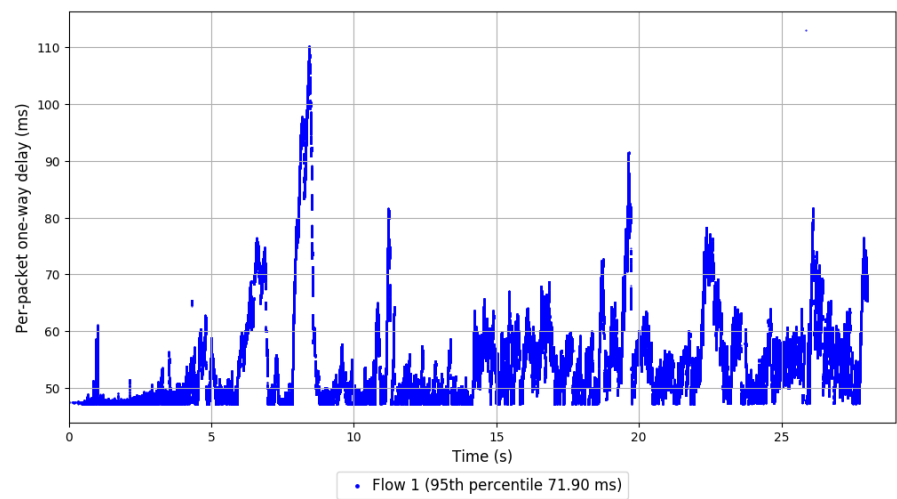
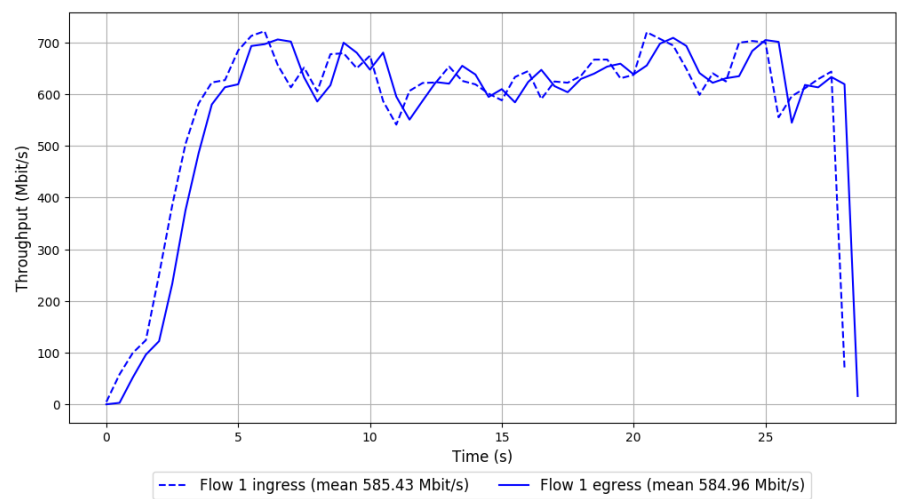
-- Flow 1:

Average throughput: 584.96 Mbit/s

95th percentile per-packet one-way delay: 71.898 ms

Loss rate: 0.42%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-07-18 17:14:14

End at: 2019-07-18 17:14:44

Local clock offset: -0.177 ms

Remote clock offset: 0.0 ms

Below is generated by plot.py at 2019-07-18 19:42:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 592.68 Mbit/s

95th percentile per-packet one-way delay: 68.834 ms

Loss rate: 0.40%

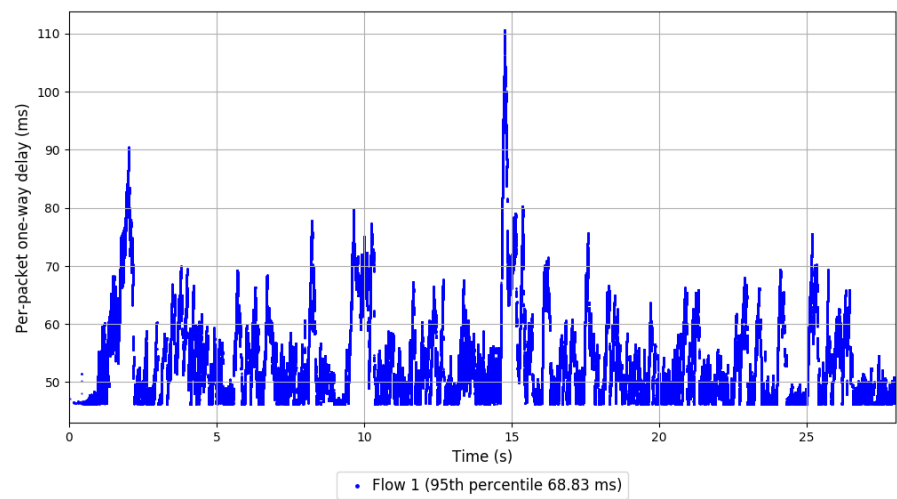
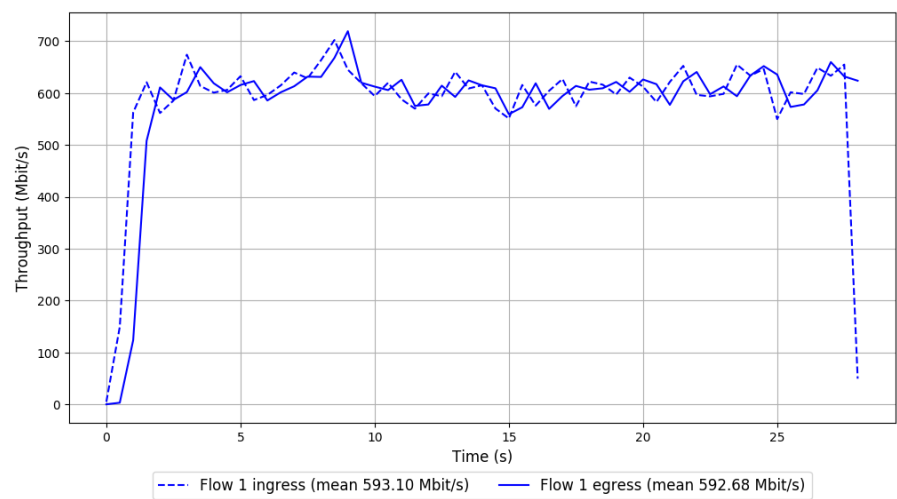
-- Flow 1:

Average throughput: 592.68 Mbit/s

95th percentile per-packet one-way delay: 68.834 ms

Loss rate: 0.40%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-07-18 17:49:09

End at: 2019-07-18 17:49:39

Local clock offset: -0.154 ms

Remote clock offset: -0.07 ms

Below is generated by plot.py at 2019-07-18 19:42:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 607.06 Mbit/s

95th percentile per-packet one-way delay: 72.304 ms

Loss rate: 0.38%

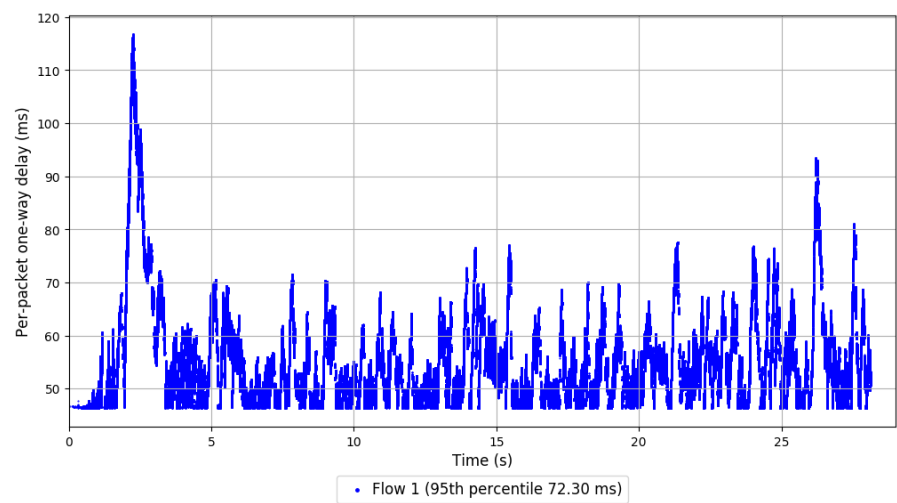
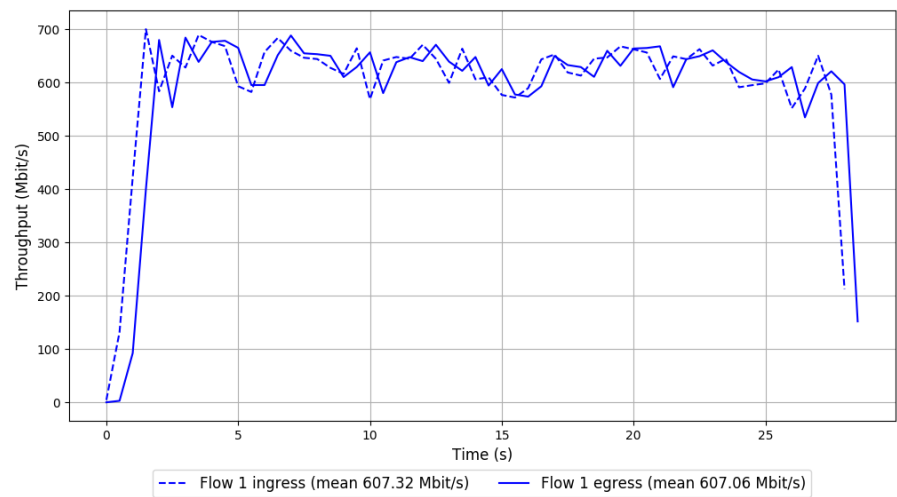
-- Flow 1:

Average throughput: 607.06 Mbit/s

95th percentile per-packet one-way delay: 72.304 ms

Loss rate: 0.38%

Run 4: Report of Indigo-MusesC5 — Data Link

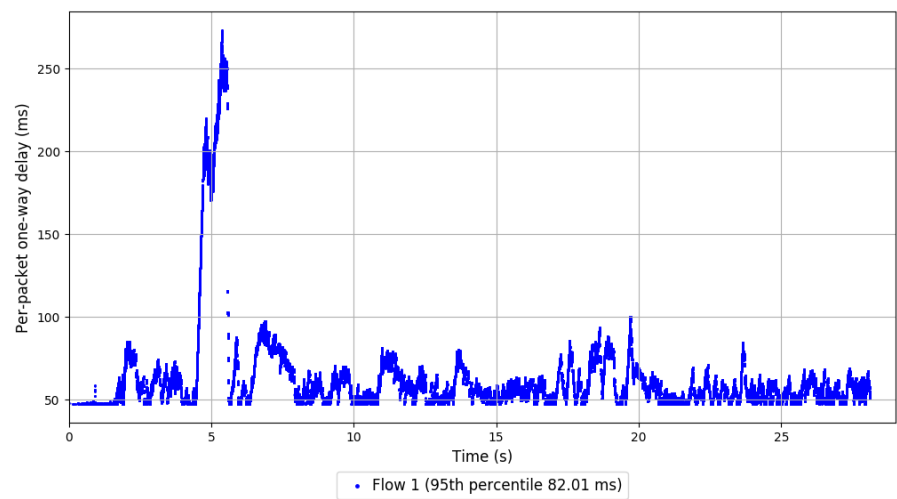
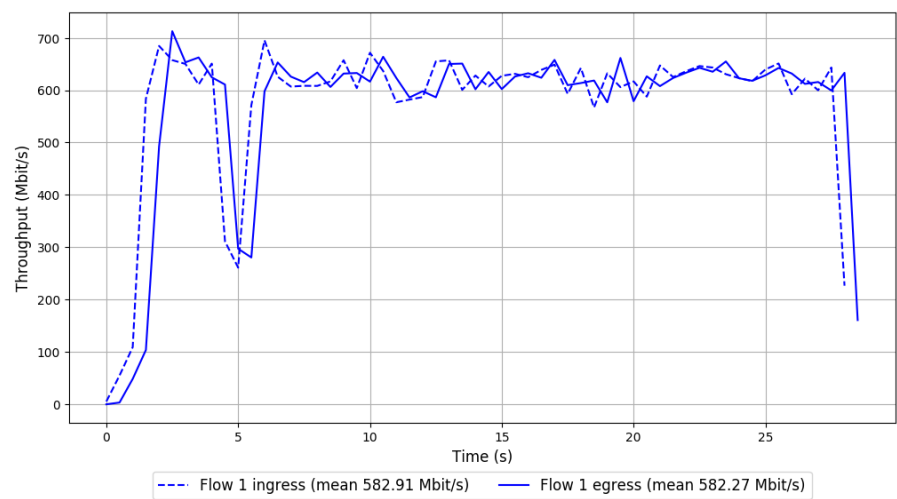


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-07-18 18:24:05
End at: 2019-07-18 18:24:35
Local clock offset: -0.001 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2019-07-18 19:47:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 582.27 Mbit/s
95th percentile per-packet one-way delay: 82.011 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 582.27 Mbit/s
95th percentile per-packet one-way delay: 82.011 ms
Loss rate: 0.45%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-07-18 16:02:02

End at: 2019-07-18 16:02:32

Local clock offset: -0.054 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2019-07-18 19:47:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 404.90 Mbit/s

95th percentile per-packet one-way delay: 63.270 ms

Loss rate: 0.58%

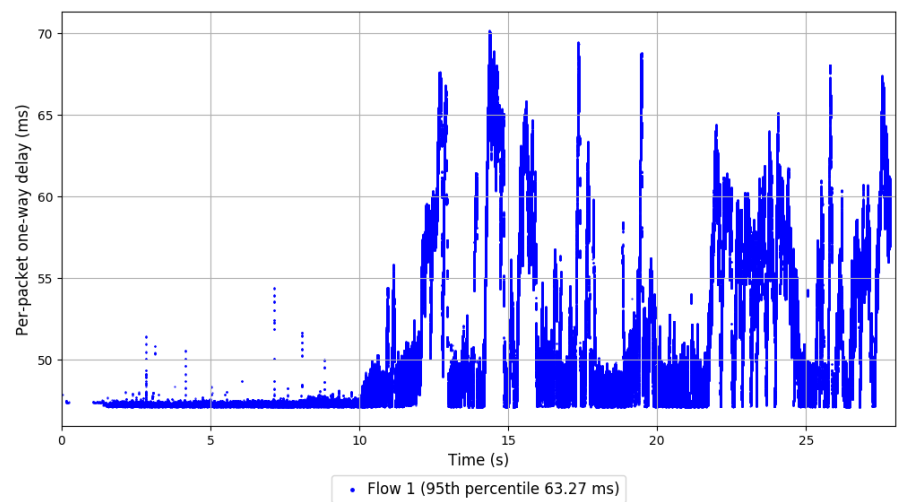
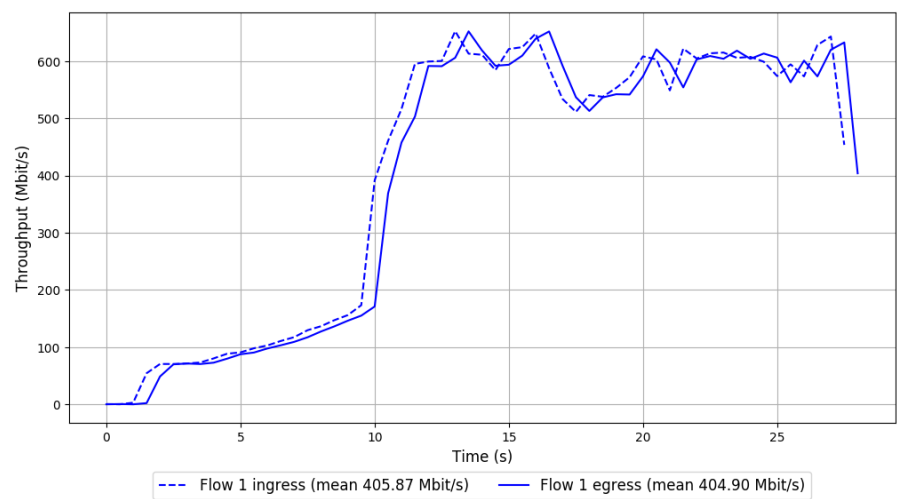
-- Flow 1:

Average throughput: 404.90 Mbit/s

95th percentile per-packet one-way delay: 63.270 ms

Loss rate: 0.58%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-07-18 16:36:45

End at: 2019-07-18 16:37:15

Local clock offset: -0.106 ms

Remote clock offset: 0.056 ms

Below is generated by plot.py at 2019-07-18 19:47:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 505.52 Mbit/s

95th percentile per-packet one-way delay: 80.632 ms

Loss rate: 0.41%

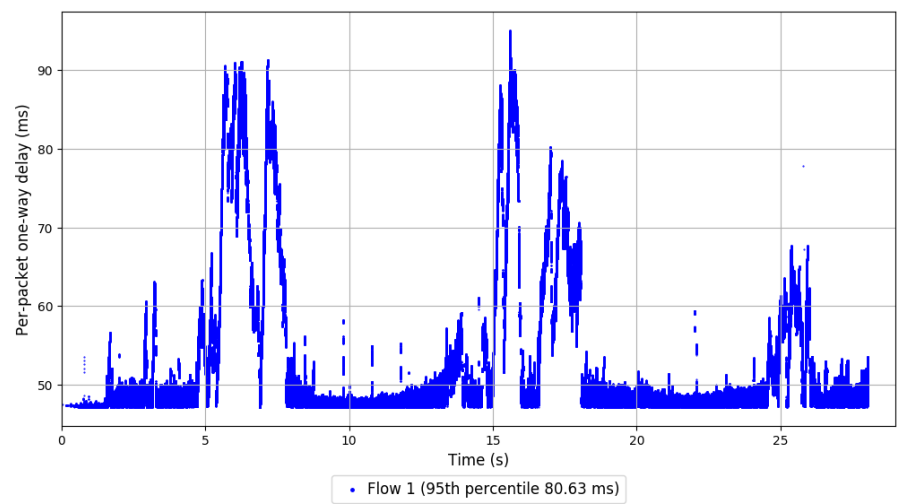
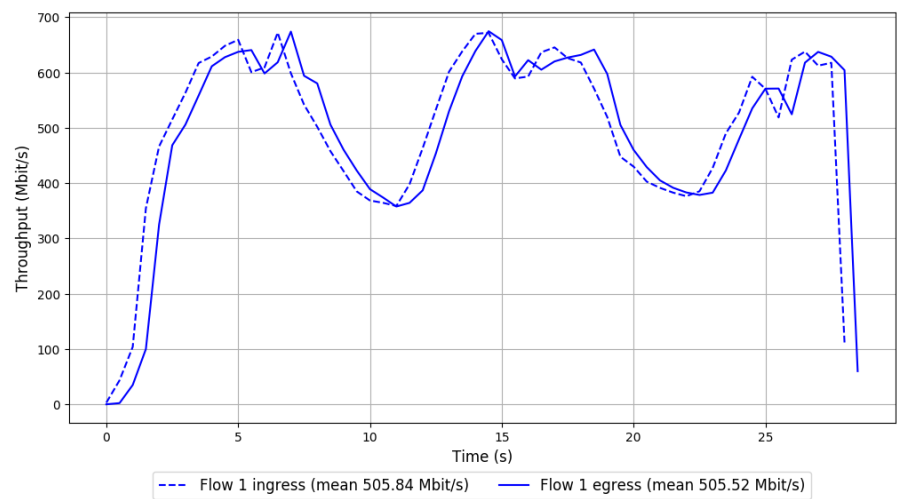
-- Flow 1:

Average throughput: 505.52 Mbit/s

95th percentile per-packet one-way delay: 80.632 ms

Loss rate: 0.41%

Run 2: Report of Indigo-MusesD — Data Link

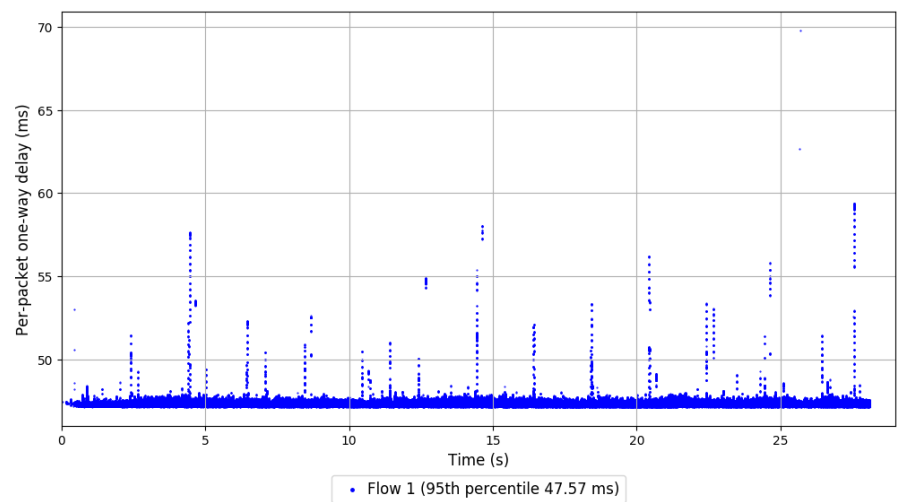
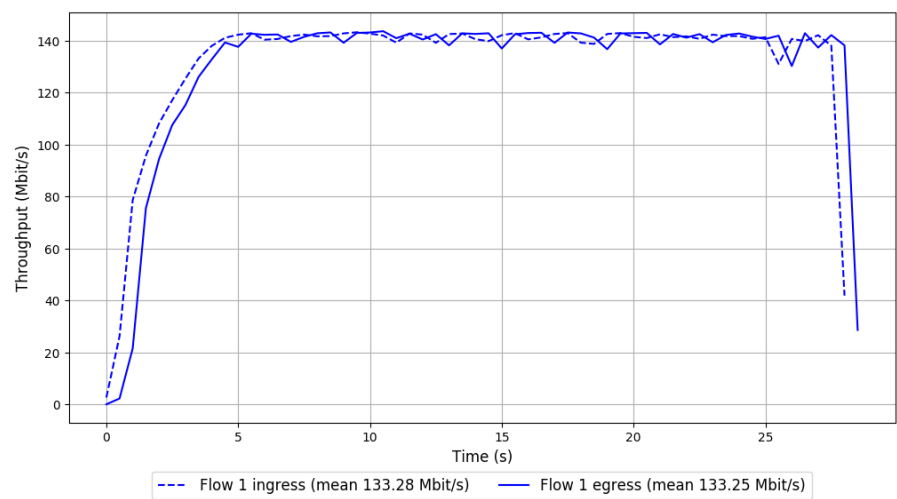


Run 3: Statistics of Indigo-MusesD

Start at: 2019-07-18 17:11:28
End at: 2019-07-18 17:11:58
Local clock offset: -0.134 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2019-07-18 19:47:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 133.25 Mbit/s
95th percentile per-packet one-way delay: 47.574 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 133.25 Mbit/s
95th percentile per-packet one-way delay: 47.574 ms
Loss rate: 0.36%

Run 3: Report of Indigo-MusesD — Data Link

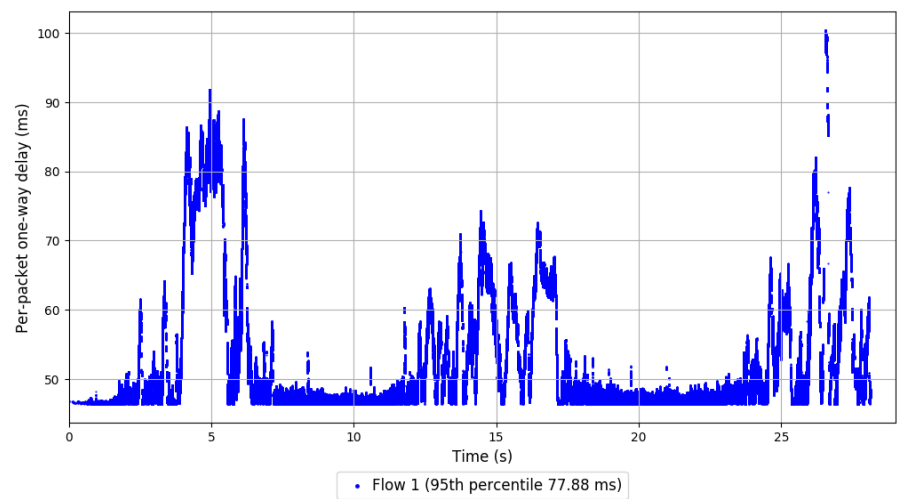
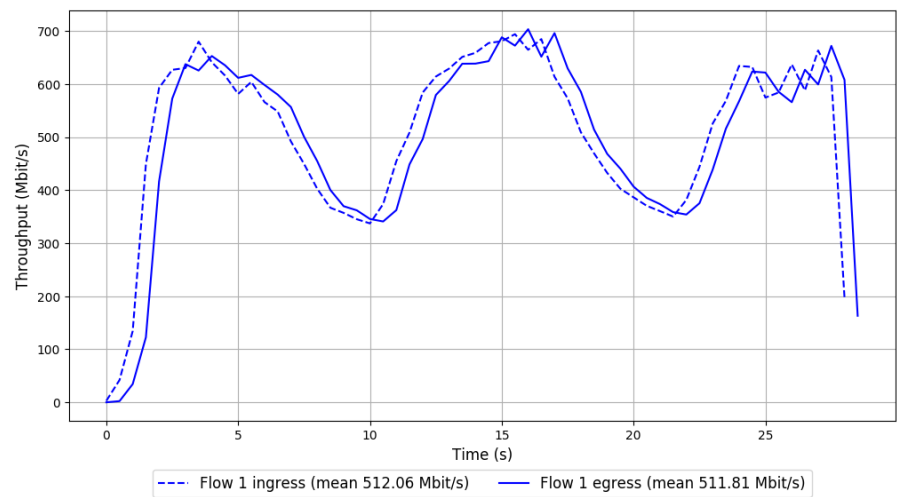


Run 4: Statistics of Indigo-MusesD

Start at: 2019-07-18 17:46:01
End at: 2019-07-18 17:46:31
Local clock offset: -0.116 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2019-07-18 19:48:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 511.81 Mbit/s
95th percentile per-packet one-way delay: 77.881 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 511.81 Mbit/s
95th percentile per-packet one-way delay: 77.881 ms
Loss rate: 0.39%

Run 4: Report of Indigo-MusesD — Data Link

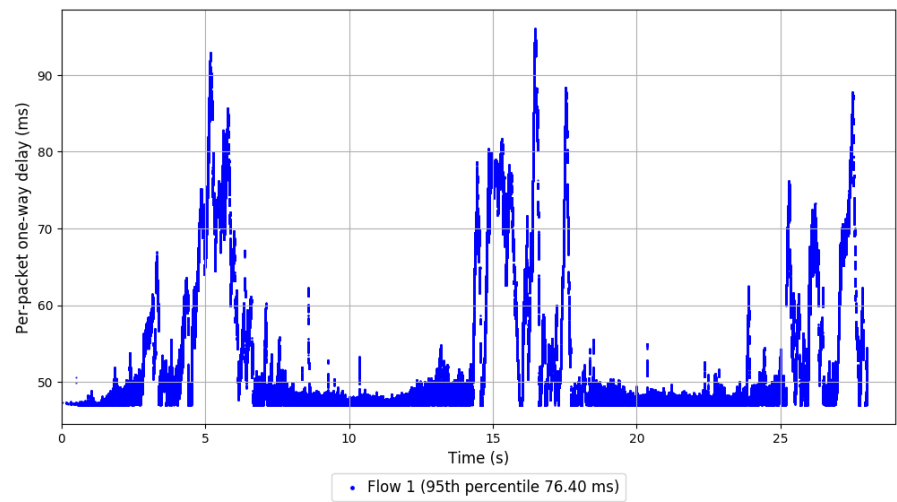
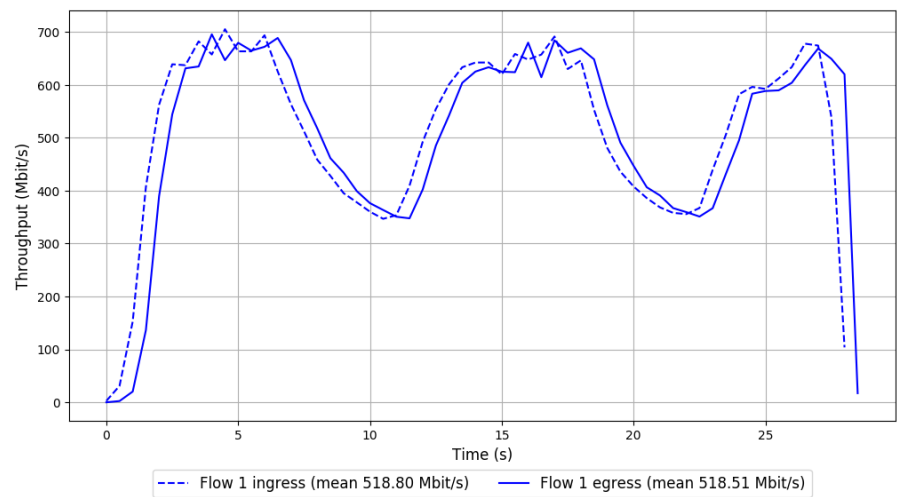


Run 5: Statistics of Indigo-MusesD

Start at: 2019-07-18 18:21:01
End at: 2019-07-18 18:21:31
Local clock offset: -0.09 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2019-07-18 19:50:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 518.51 Mbit/s
95th percentile per-packet one-way delay: 76.399 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 518.51 Mbit/s
95th percentile per-packet one-way delay: 76.399 ms
Loss rate: 0.40%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-07-18 16:13:47

End at: 2019-07-18 16:14:17

Local clock offset: -0.035 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2019-07-18 19:52:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 624.57 Mbit/s

95th percentile per-packet one-way delay: 110.899 ms

Loss rate: 0.49%

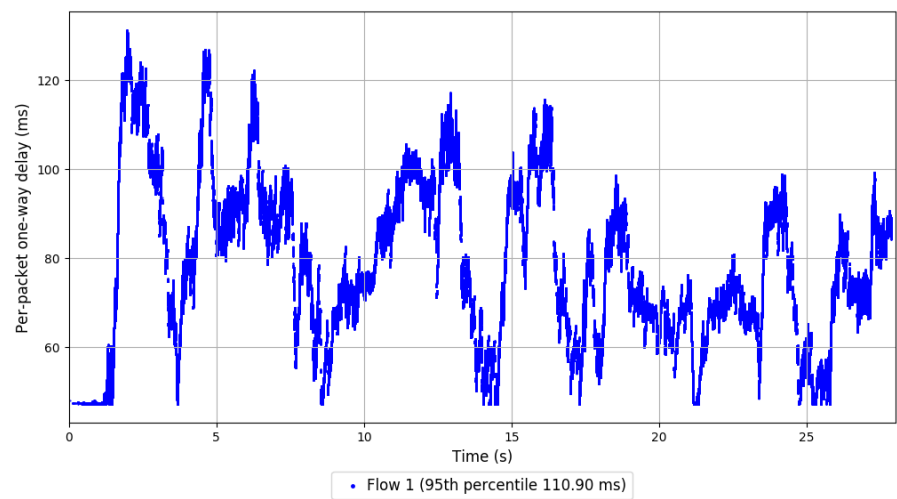
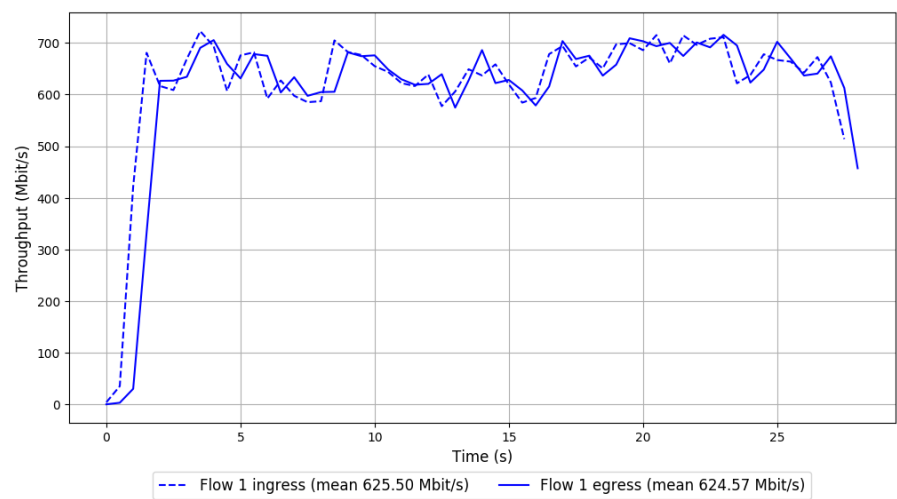
-- Flow 1:

Average throughput: 624.57 Mbit/s

95th percentile per-packet one-way delay: 110.899 ms

Loss rate: 0.49%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-07-18 16:48:37

End at: 2019-07-18 16:49:07

Local clock offset: -0.192 ms

Remote clock offset: 0.077 ms

Below is generated by plot.py at 2019-07-18 19:52:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 602.33 Mbit/s

95th percentile per-packet one-way delay: 98.365 ms

Loss rate: 0.51%

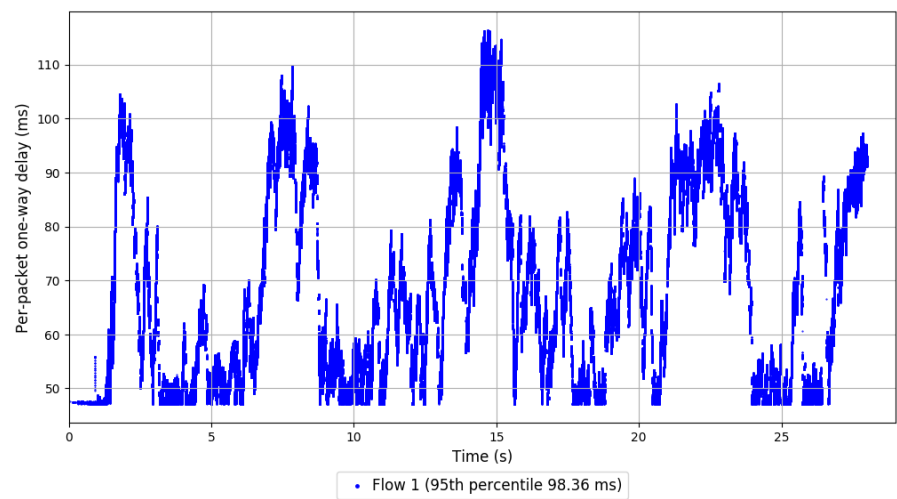
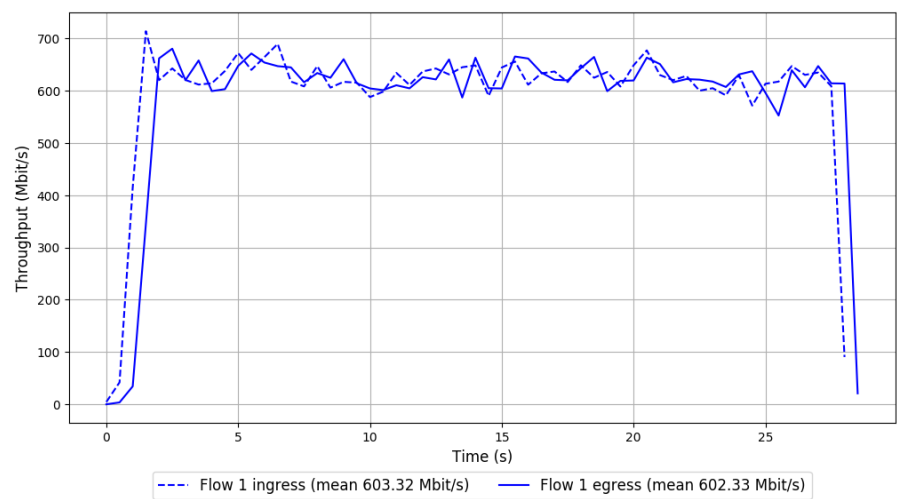
-- Flow 1:

Average throughput: 602.33 Mbit/s

95th percentile per-packet one-way delay: 98.365 ms

Loss rate: 0.51%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-07-18 17:23:04

End at: 2019-07-18 17:23:34

Local clock offset: -0.489 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2019-07-18 19:53:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 605.70 Mbit/s

95th percentile per-packet one-way delay: 115.630 ms

Loss rate: 0.48%

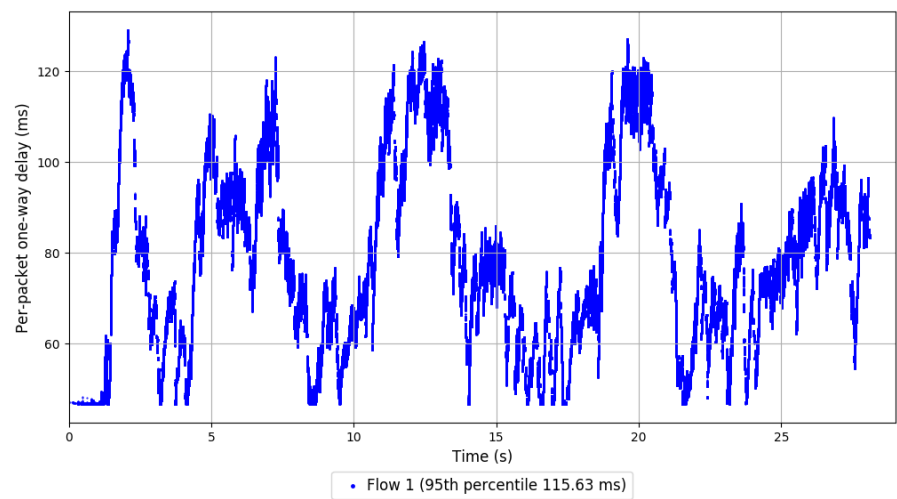
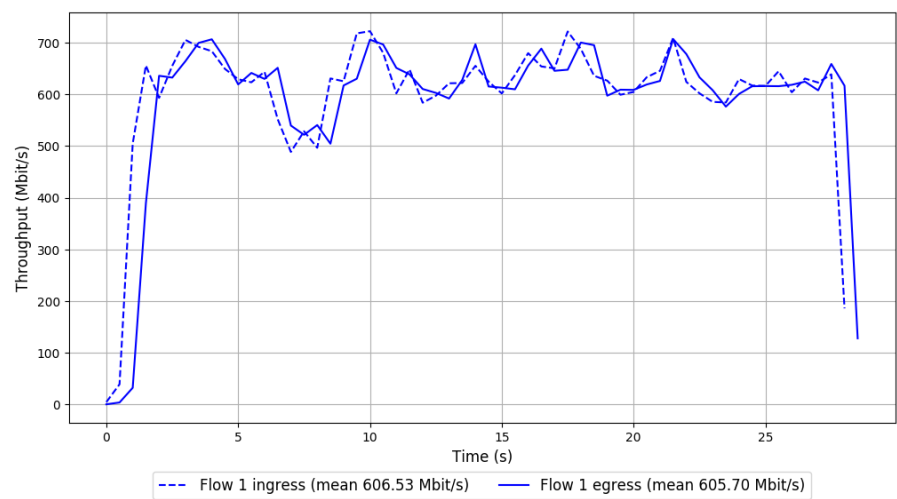
-- Flow 1:

Average throughput: 605.70 Mbit/s

95th percentile per-packet one-way delay: 115.630 ms

Loss rate: 0.48%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-07-18 17:57:52

End at: 2019-07-18 17:58:22

Local clock offset: 0.227 ms

Remote clock offset: -0.037 ms

Below is generated by plot.py at 2019-07-18 19:55:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 617.27 Mbit/s

95th percentile per-packet one-way delay: 101.689 ms

Loss rate: 0.51%

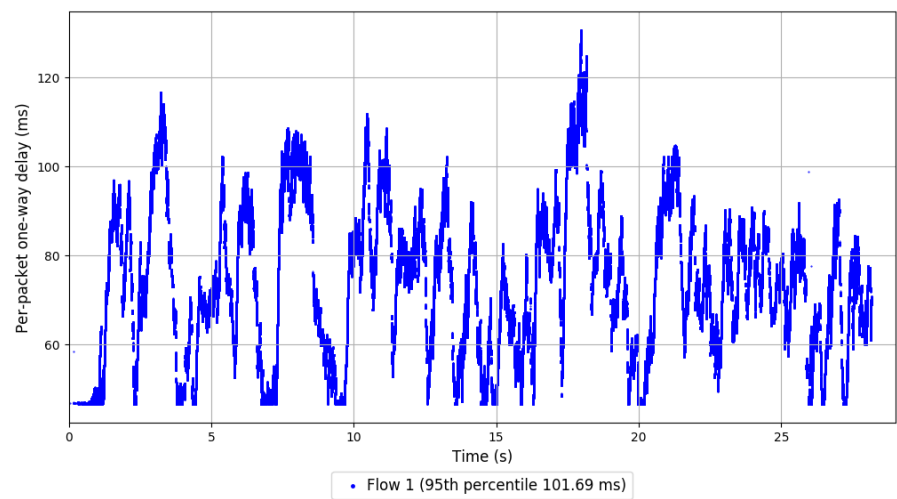
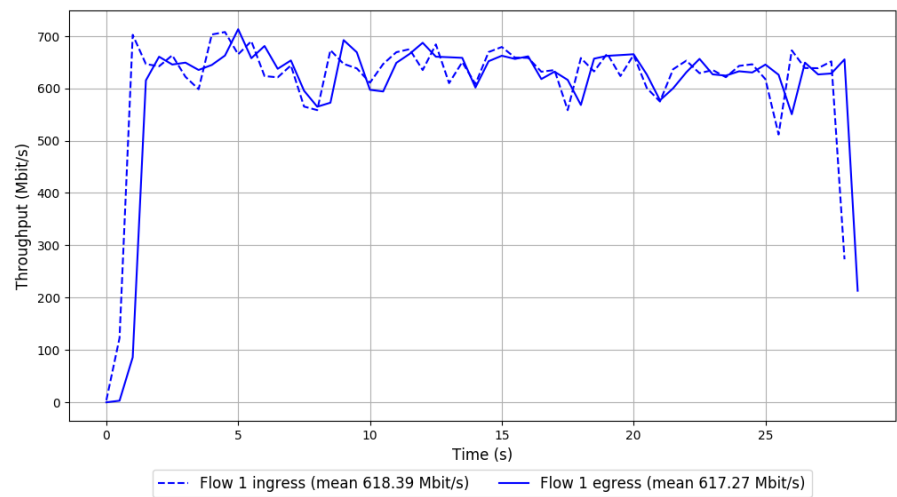
-- Flow 1:

Average throughput: 617.27 Mbit/s

95th percentile per-packet one-way delay: 101.689 ms

Loss rate: 0.51%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-07-18 18:32:52

End at: 2019-07-18 18:33:22

Local clock offset: 0.357 ms

Remote clock offset: -0.001 ms

Below is generated by plot.py at 2019-07-18 19:57:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 628.11 Mbit/s

95th percentile per-packet one-way delay: 102.502 ms

Loss rate: 0.38%

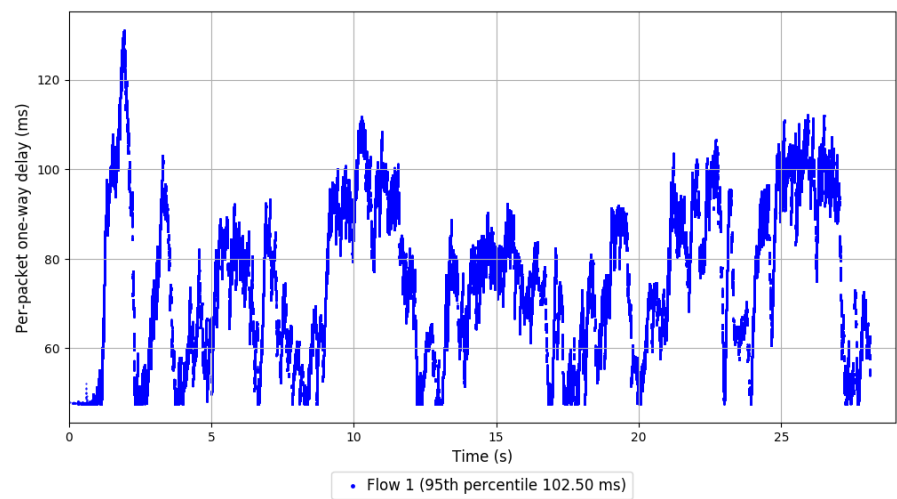
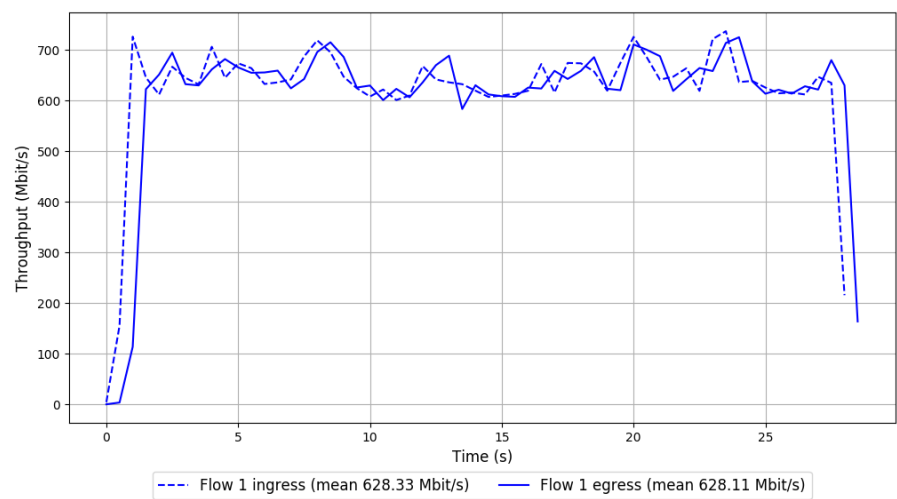
-- Flow 1:

Average throughput: 628.11 Mbit/s

95th percentile per-packet one-way delay: 102.502 ms

Loss rate: 0.38%

Run 5: Report of Indigo-MusesT — Data Link

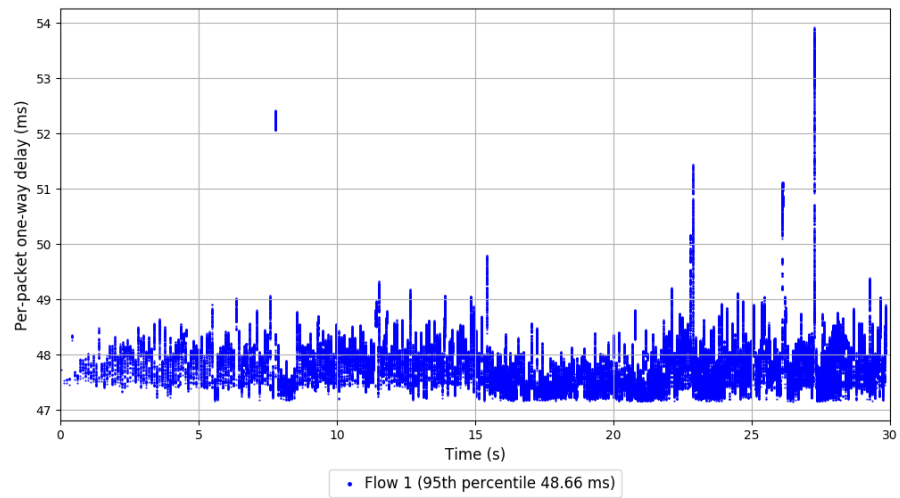
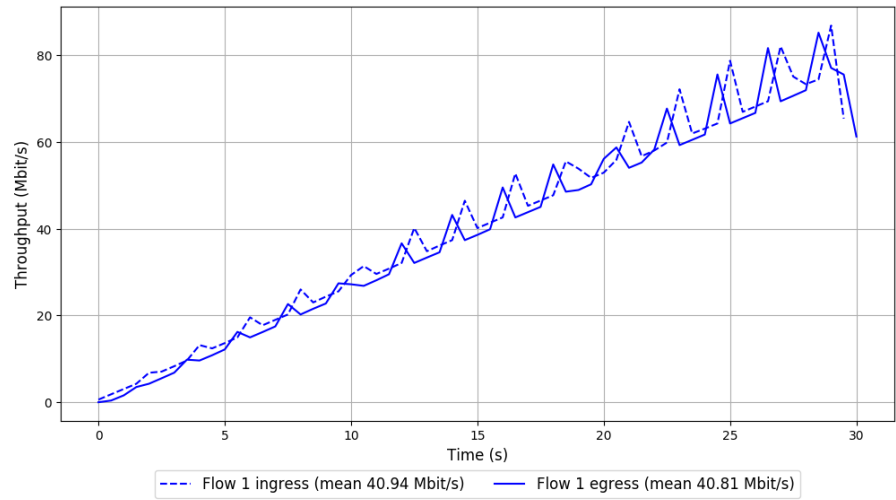


Run 1: Statistics of LEDBAT

Start at: 2019-07-18 15:41:10
End at: 2019-07-18 15:41:40
Local clock offset: -0.079 ms
Remote clock offset: -0.198 ms

Below is generated by plot.py at 2019-07-18 19:57:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 40.81 Mbit/s
95th percentile per-packet one-way delay: 48.658 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 40.81 Mbit/s
95th percentile per-packet one-way delay: 48.658 ms
Loss rate: 0.63%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-07-18 16:15:23

End at: 2019-07-18 16:15:53

Local clock offset: 0.024 ms

Remote clock offset: 0.037 ms

Below is generated by plot.py at 2019-07-18 19:57:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.78 Mbit/s

95th percentile per-packet one-way delay: 49.083 ms

Loss rate: 0.63%

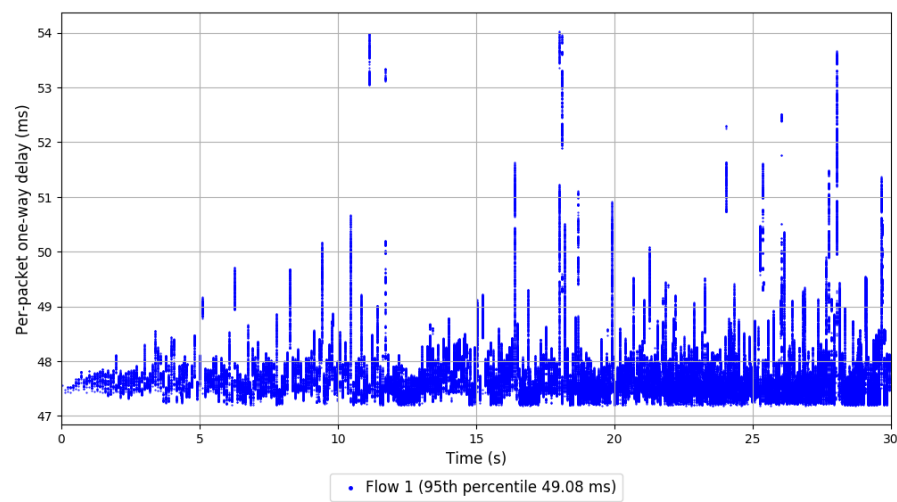
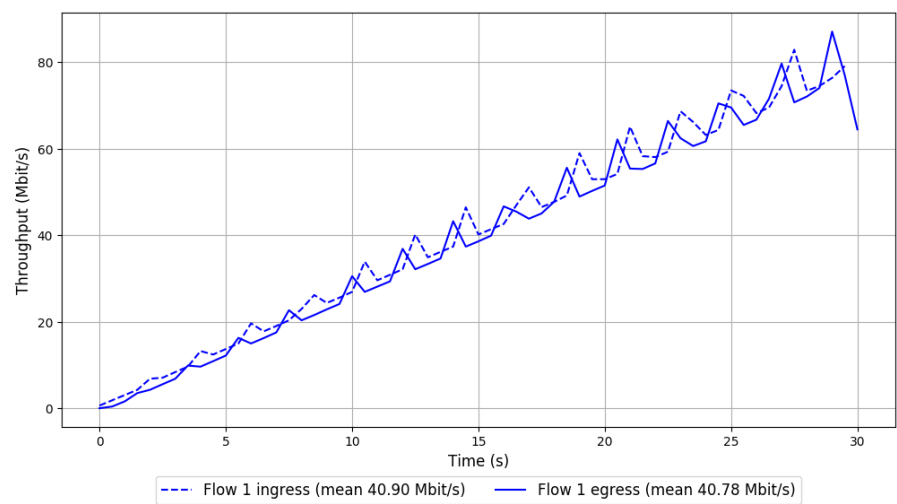
-- Flow 1:

Average throughput: 40.78 Mbit/s

95th percentile per-packet one-way delay: 49.083 ms

Loss rate: 0.63%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-07-18 16:50:11

End at: 2019-07-18 16:50:41

Local clock offset: -0.191 ms

Remote clock offset: 0.036 ms

Below is generated by plot.py at 2019-07-18 19:57:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.13 Mbit/s

95th percentile per-packet one-way delay: 48.874 ms

Loss rate: 0.37%

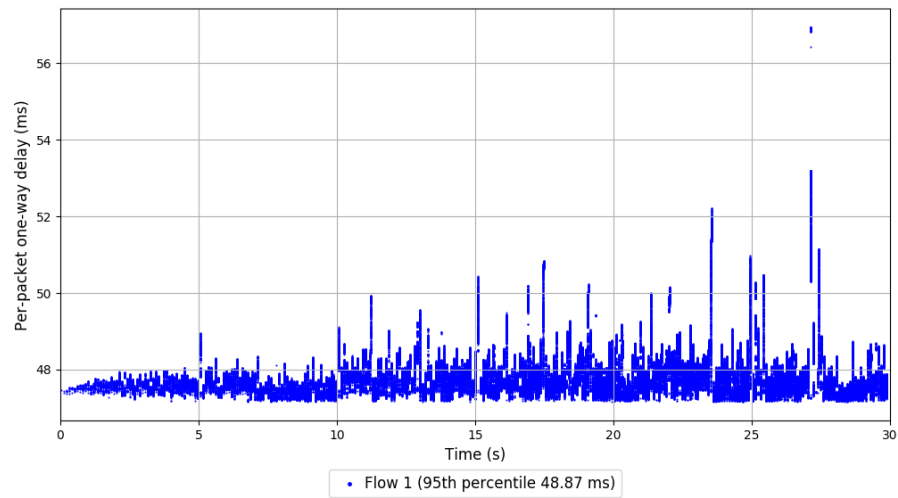
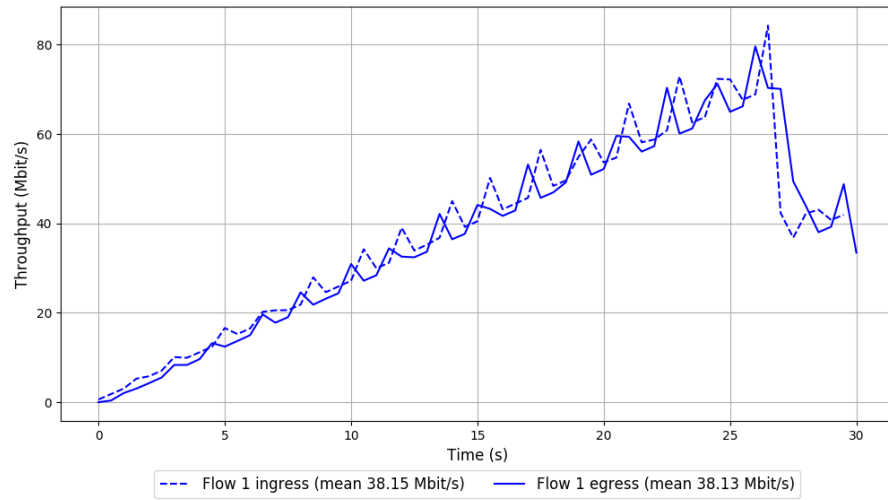
-- Flow 1:

Average throughput: 38.13 Mbit/s

95th percentile per-packet one-way delay: 48.874 ms

Loss rate: 0.37%

Run 3: Report of LEDBAT — Data Link

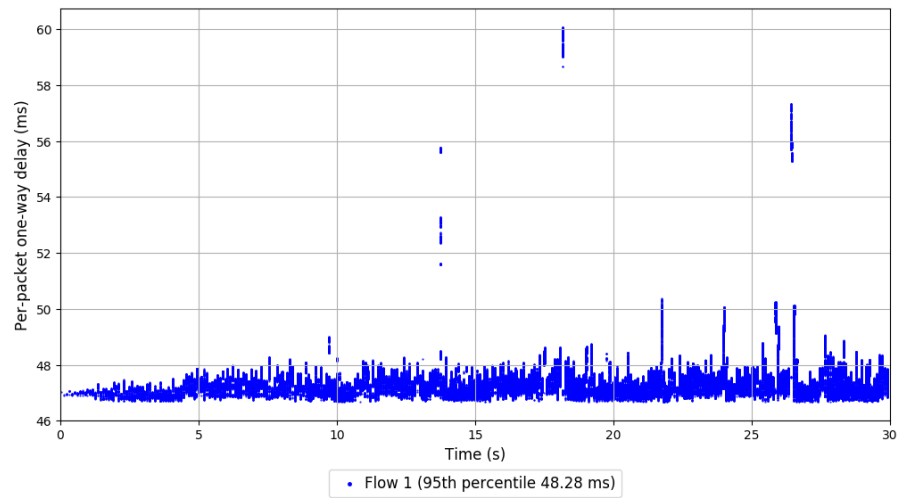
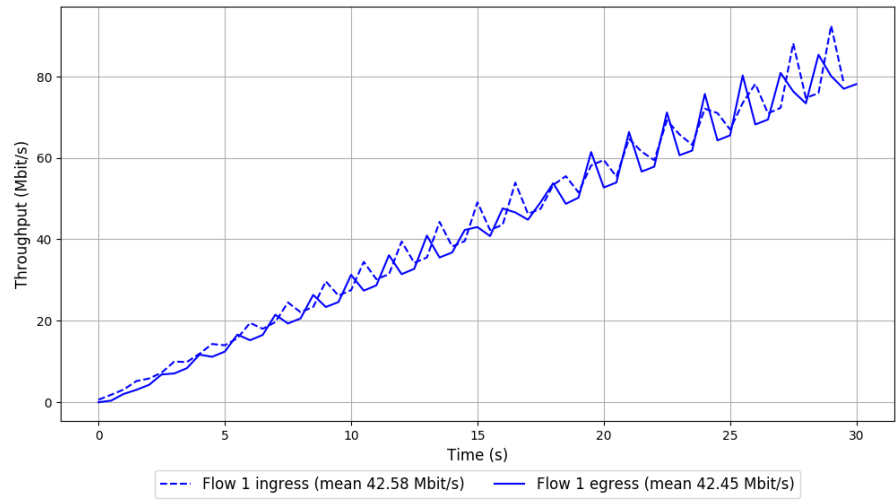


Run 4: Statistics of LEDBAT

Start at: 2019-07-18 17:24:39
End at: 2019-07-18 17:25:09
Local clock offset: 0.252 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2019-07-18 19:57:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 42.45 Mbit/s
95th percentile per-packet one-way delay: 48.277 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 42.45 Mbit/s
95th percentile per-packet one-way delay: 48.277 ms
Loss rate: 0.62%

Run 4: Report of LEDBAT — Data Link

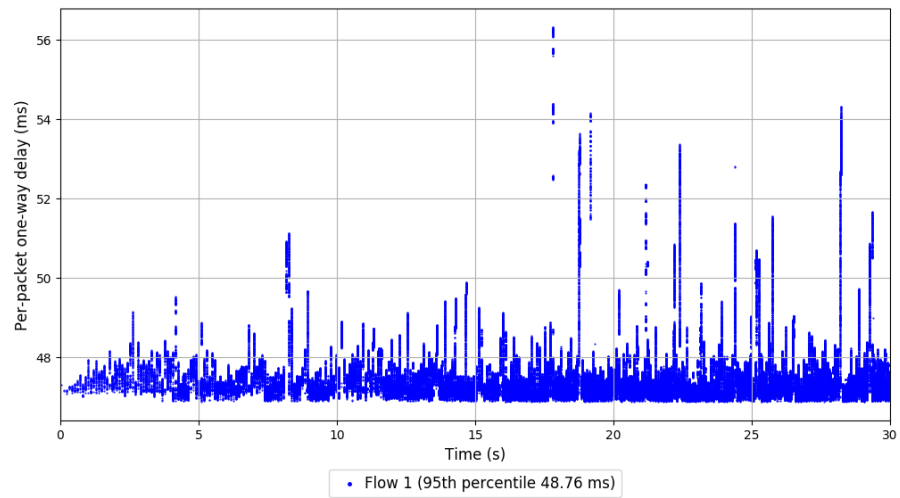
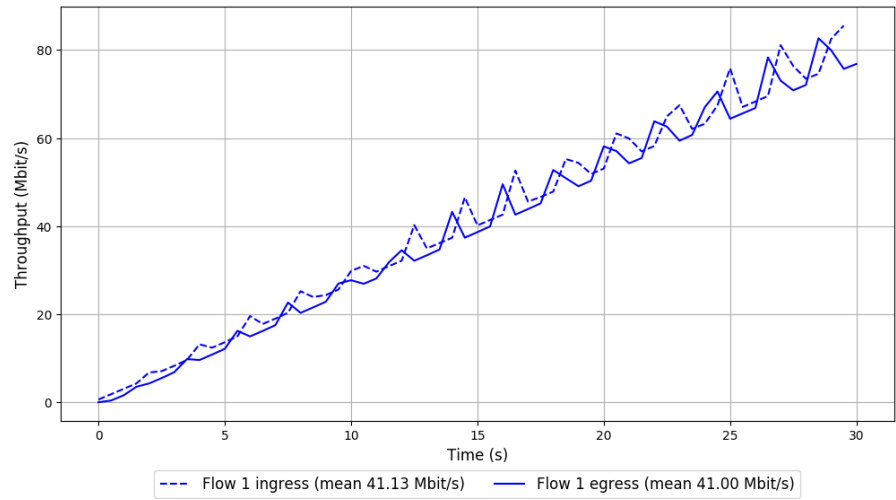


Run 5: Statistics of LEDBAT

Start at: 2019-07-18 17:59:27
End at: 2019-07-18 17:59:57
Local clock offset: -0.207 ms
Remote clock offset: -0.038 ms

Below is generated by plot.py at 2019-07-18 19:57:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 41.00 Mbit/s
95th percentile per-packet one-way delay: 48.760 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 41.00 Mbit/s
95th percentile per-packet one-way delay: 48.760 ms
Loss rate: 0.63%

Run 5: Report of LEDBAT — Data Link

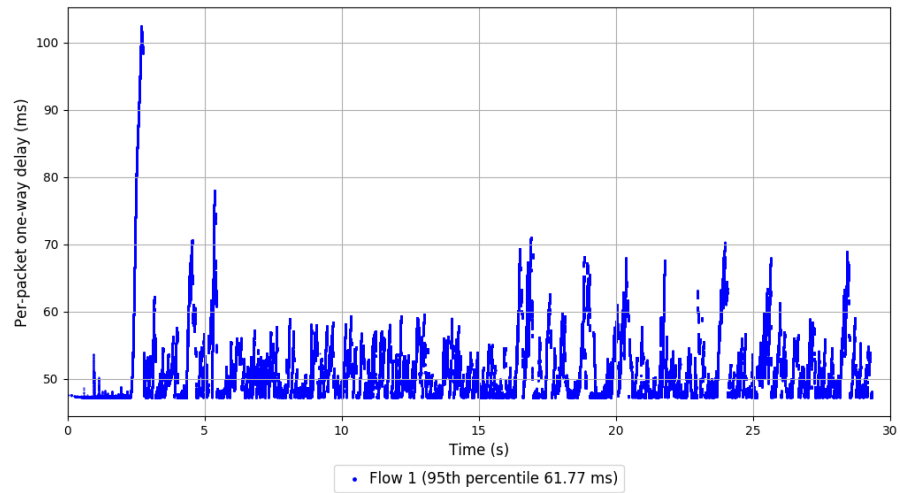
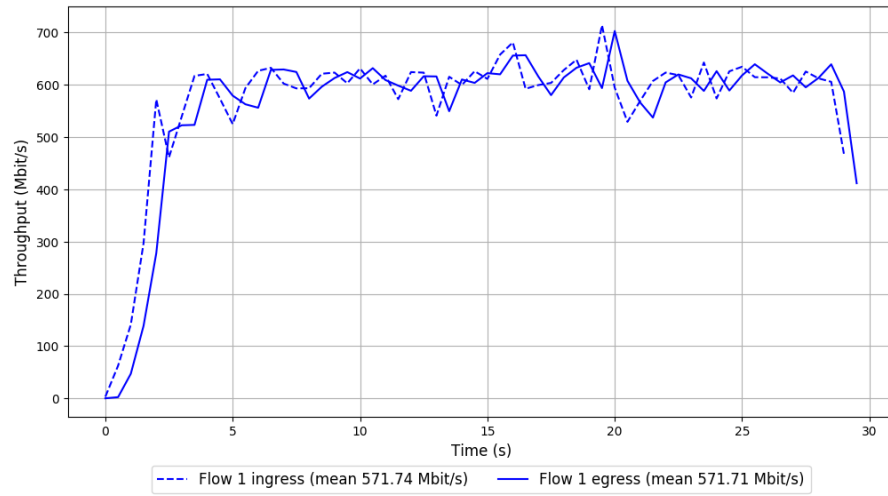


Run 1: Statistics of Muses_DecisionTree

Start at: 2019-07-18 15:56:13
End at: 2019-07-18 15:56:43
Local clock offset: -0.071 ms
Remote clock offset: -0.138 ms

Below is generated by plot.py at 2019-07-18 20:01:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 571.71 Mbit/s
95th percentile per-packet one-way delay: 61.771 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 571.71 Mbit/s
95th percentile per-packet one-way delay: 61.771 ms
Loss rate: 0.33%

Run 1: Report of Muses_DecisionTree — Data Link



Run 2: Statistics of Muses_DecisionTree

Start at: 2019-07-18 16:30:28

End at: 2019-07-18 16:30:58

Local clock offset: -0.046 ms

Remote clock offset: 0.034 ms

Below is generated by plot.py at 2019-07-18 20:01:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 570.18 Mbit/s

95th percentile per-packet one-way delay: 64.325 ms

Loss rate: 0.27%

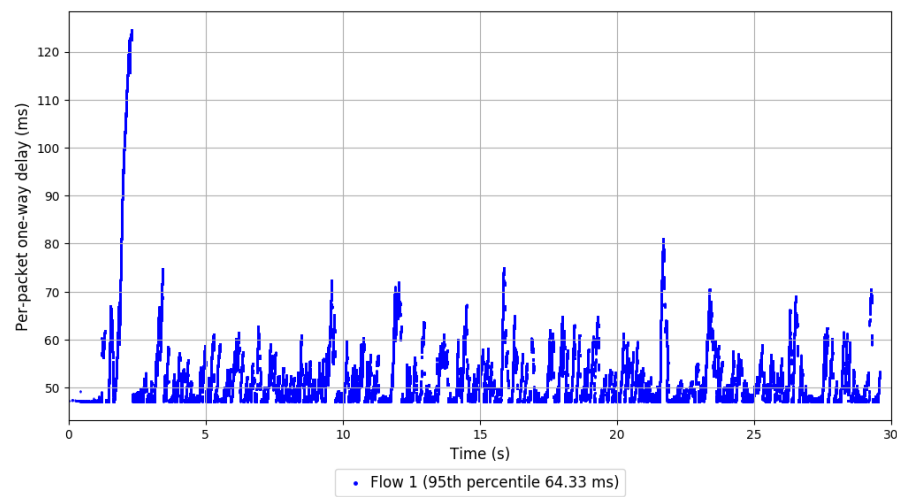
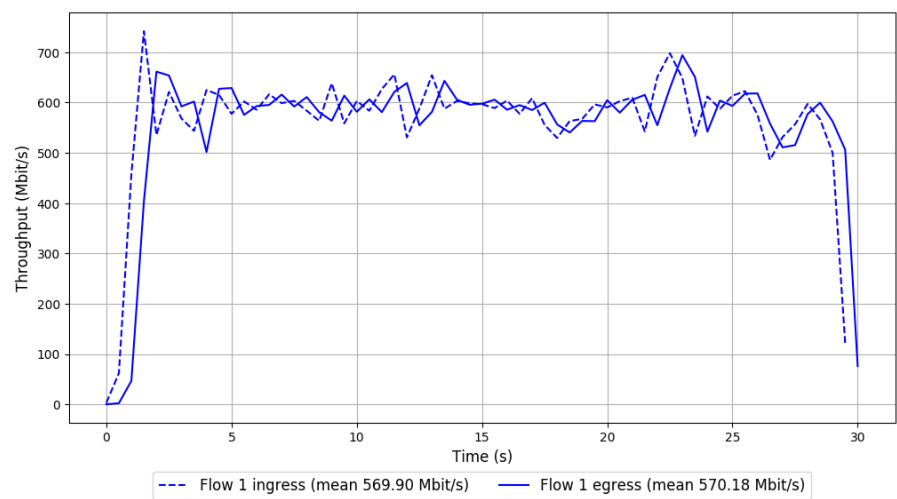
-- Flow 1:

Average throughput: 570.18 Mbit/s

95th percentile per-packet one-way delay: 64.325 ms

Loss rate: 0.27%

Run 2: Report of Muses_DecisionTree — Data Link



Run 3: Statistics of Muses_DecisionTree

Start at: 2019-07-18 17:05:13

End at: 2019-07-18 17:05:43

Local clock offset: -0.171 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2019-07-18 20:01:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 556.48 Mbit/s

95th percentile per-packet one-way delay: 61.439 ms

Loss rate: 0.37%

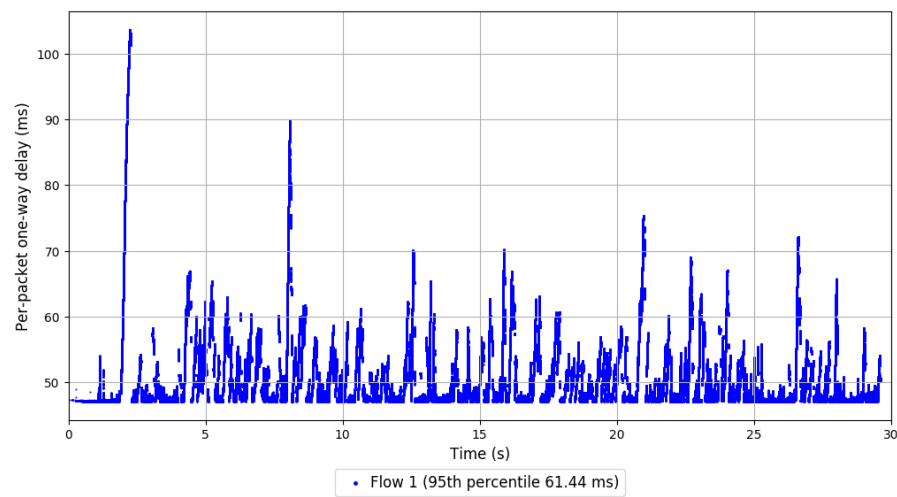
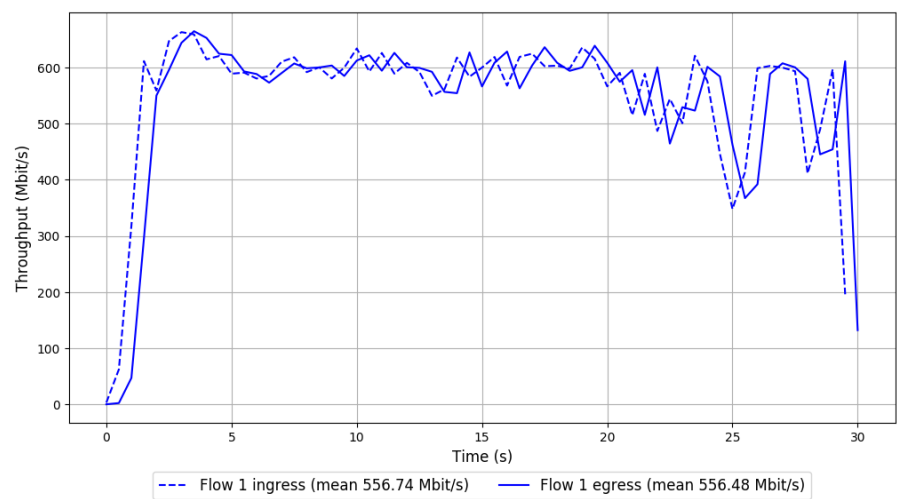
-- Flow 1:

Average throughput: 556.48 Mbit/s

95th percentile per-packet one-way delay: 61.439 ms

Loss rate: 0.37%

Run 3: Report of Muses_DecisionTree — Data Link

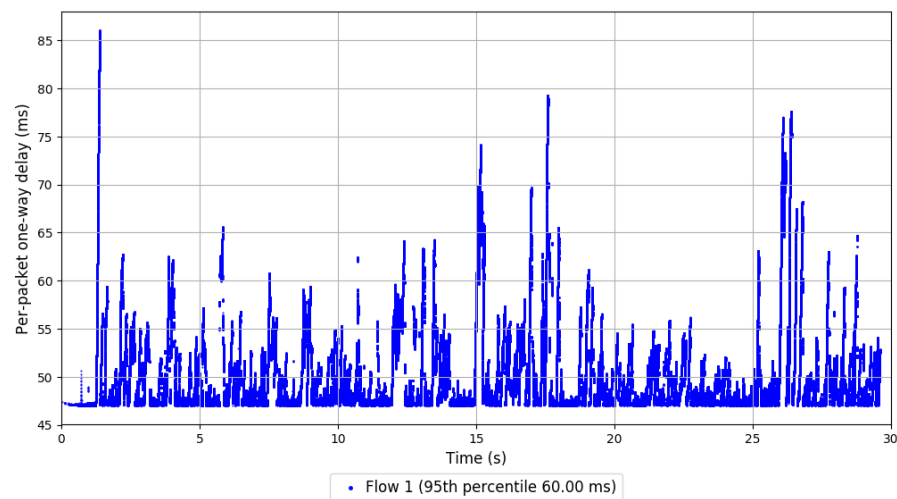
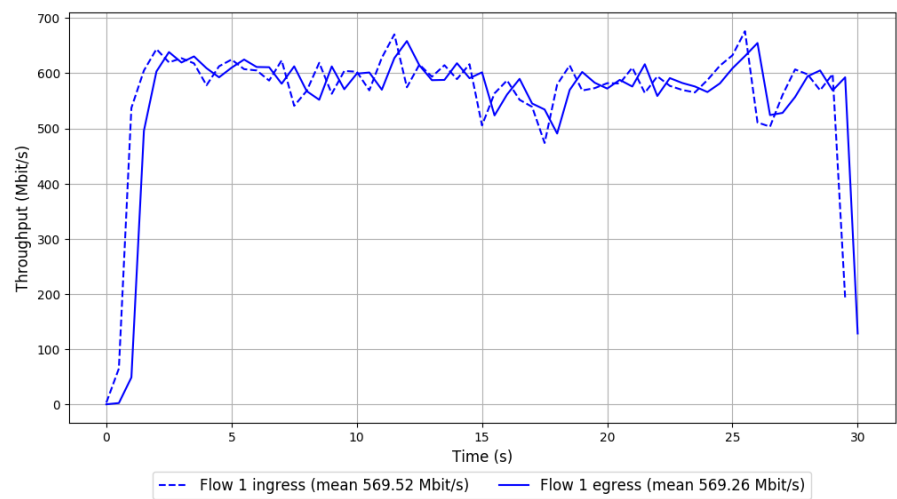


Run 4: Statistics of Muses_DecisionTree

Start at: 2019-07-18 17:39:46
End at: 2019-07-18 17:40:17
Local clock offset: -0.115 ms
Remote clock offset: -0.024 ms

Below is generated by plot.py at 2019-07-18 20:02:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 569.26 Mbit/s
95th percentile per-packet one-way delay: 60.004 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 569.26 Mbit/s
95th percentile per-packet one-way delay: 60.004 ms
Loss rate: 0.37%

Run 4: Report of Muses_DecisionTree — Data Link

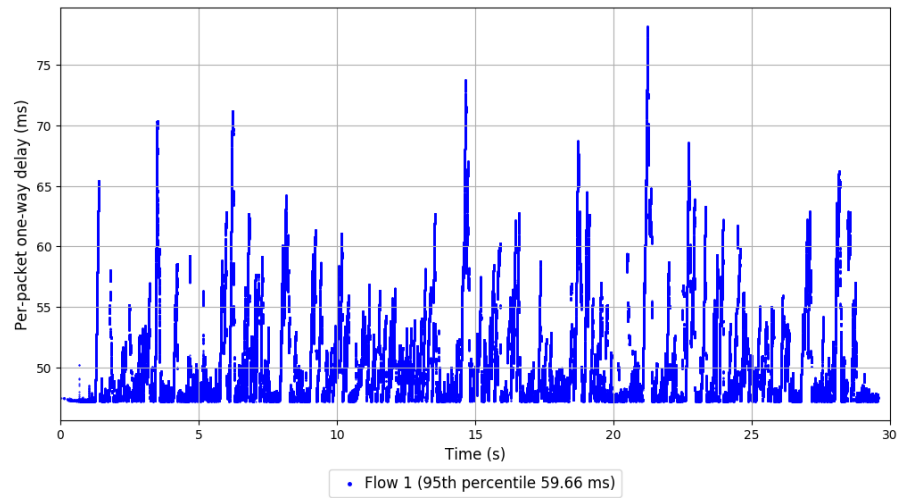
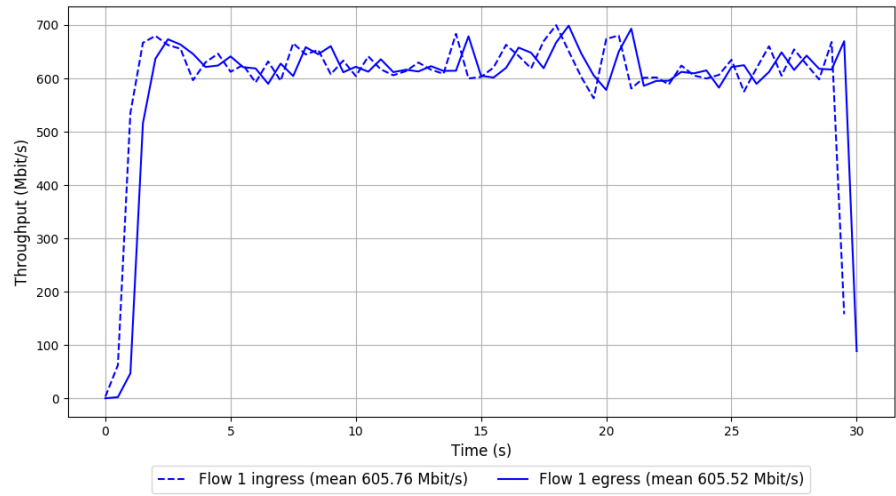


Run 5: Statistics of Muses_DecisionTree

Start at: 2019-07-18 18:14:44
End at: 2019-07-18 18:15:14
Local clock offset: -0.067 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2019-07-18 20:03:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 605.52 Mbit/s
95th percentile per-packet one-way delay: 59.662 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 605.52 Mbit/s
95th percentile per-packet one-way delay: 59.662 ms
Loss rate: 0.36%

Run 5: Report of Muses_DecisionTree — Data Link

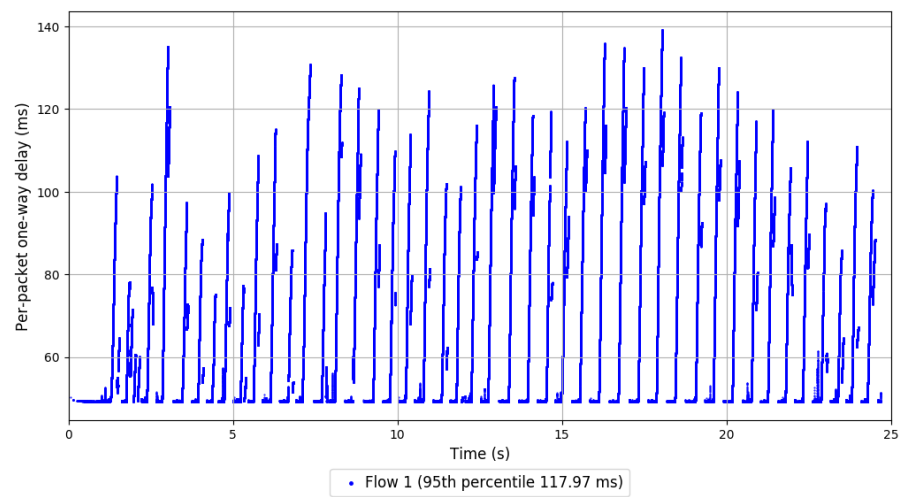
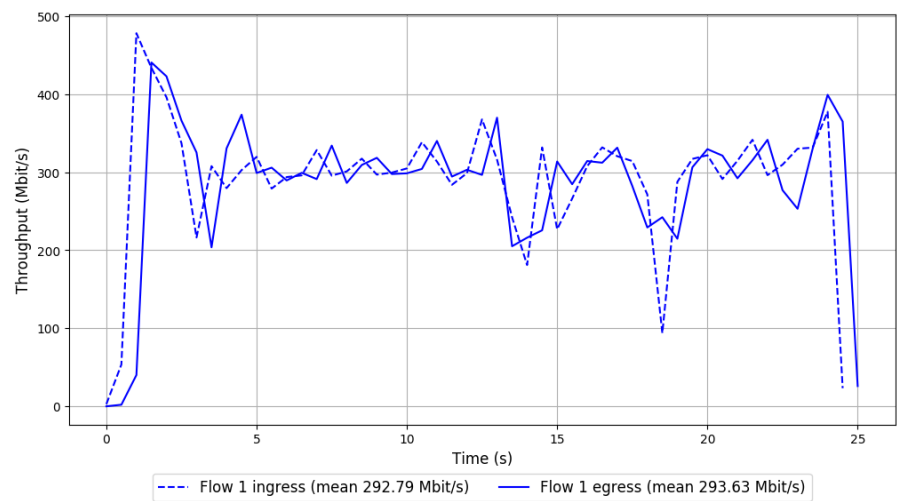


Run 1: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-18 15:45:04
End at: 2019-07-18 15:45:34
Local clock offset: -0.09 ms
Remote clock offset: -0.157 ms

Below is generated by plot.py at 2019-07-18 20:03:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 293.63 Mbit/s
95th percentile per-packet one-way delay: 117.975 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 293.63 Mbit/s
95th percentile per-packet one-way delay: 117.975 ms
Loss rate: 0.13%

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-18 16:19:21

End at: 2019-07-18 16:19:51

Local clock offset: -0.039 ms

Remote clock offset: 0.056 ms

Below is generated by plot.py at 2019-07-18 20:03:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 348.25 Mbit/s

95th percentile per-packet one-way delay: 107.800 ms

Loss rate: 0.47%

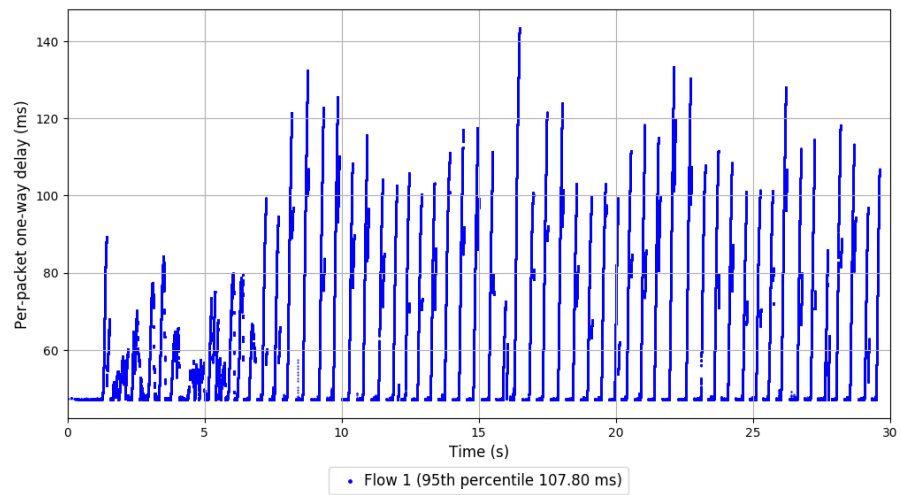
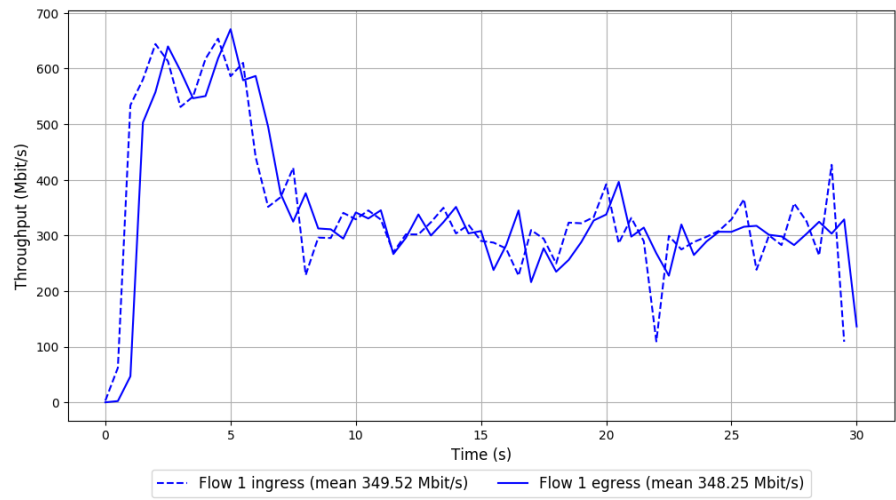
-- Flow 1:

Average throughput: 348.25 Mbit/s

95th percentile per-packet one-way delay: 107.800 ms

Loss rate: 0.47%

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-18 16:54:05

End at: 2019-07-18 16:54:35

Local clock offset: -0.197 ms

Remote clock offset: 0.045 ms

Below is generated by plot.py at 2019-07-18 20:03:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 290.68 Mbit/s

95th percentile per-packet one-way delay: 129.800 ms

Loss rate: 0.03%

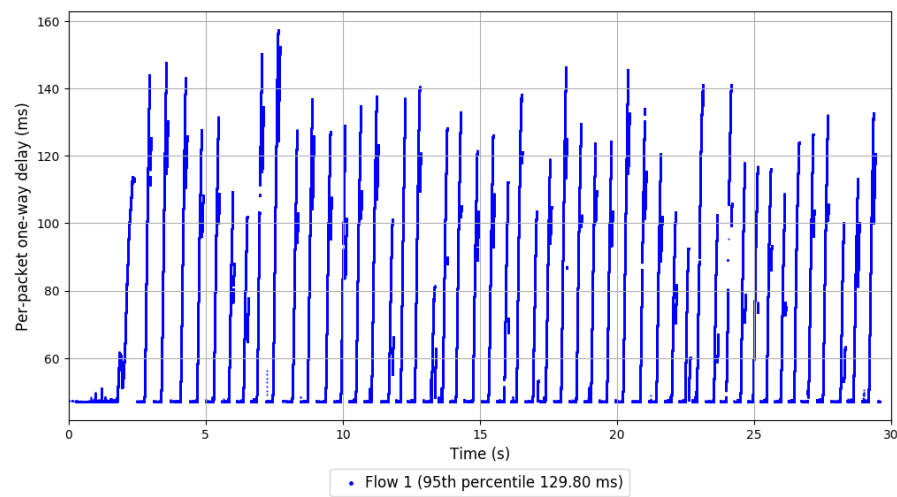
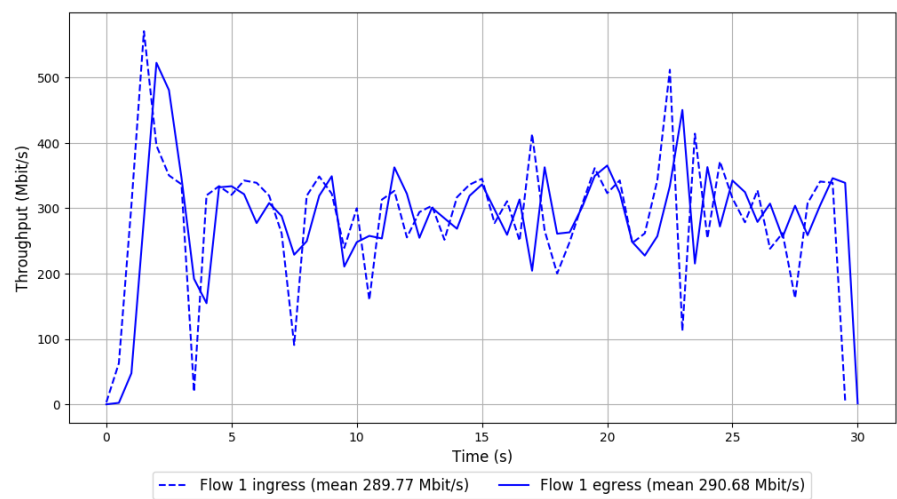
-- Flow 1:

Average throughput: 290.68 Mbit/s

95th percentile per-packet one-way delay: 129.800 ms

Loss rate: 0.03%

Run 3: Report of Muses_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-18 17:28:34

End at: 2019-07-18 17:29:04

Local clock offset: -0.121 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2019-07-18 20:03:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 300.75 Mbit/s

95th percentile per-packet one-way delay: 121.281 ms

Loss rate: 0.07%

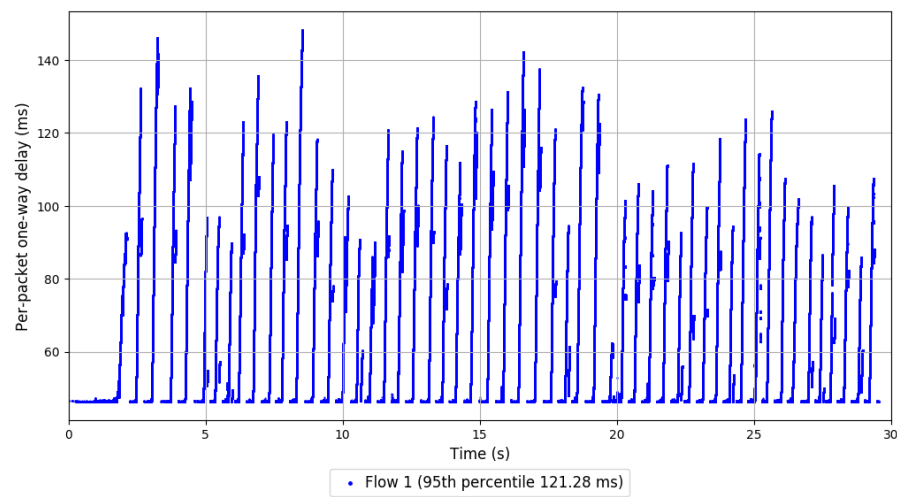
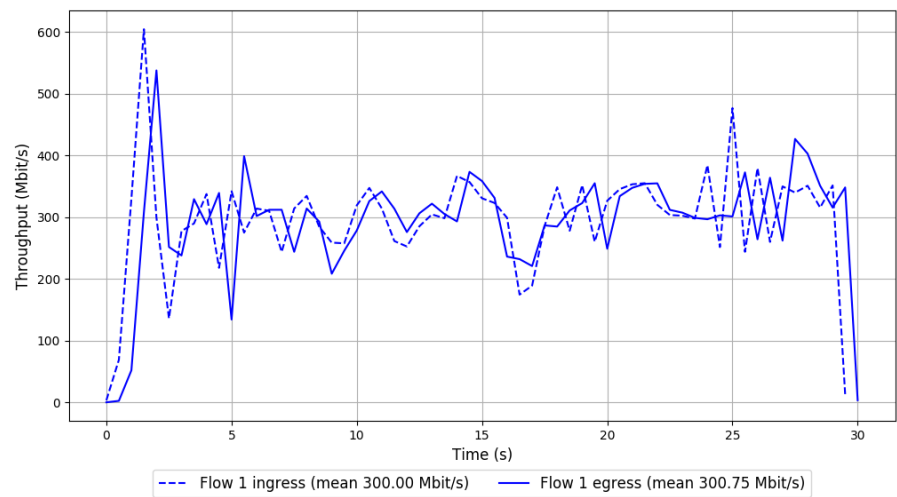
-- Flow 1:

Average throughput: 300.75 Mbit/s

95th percentile per-packet one-way delay: 121.281 ms

Loss rate: 0.07%

Run 4: Report of Muses_DecisionTreeH0 — Data Link

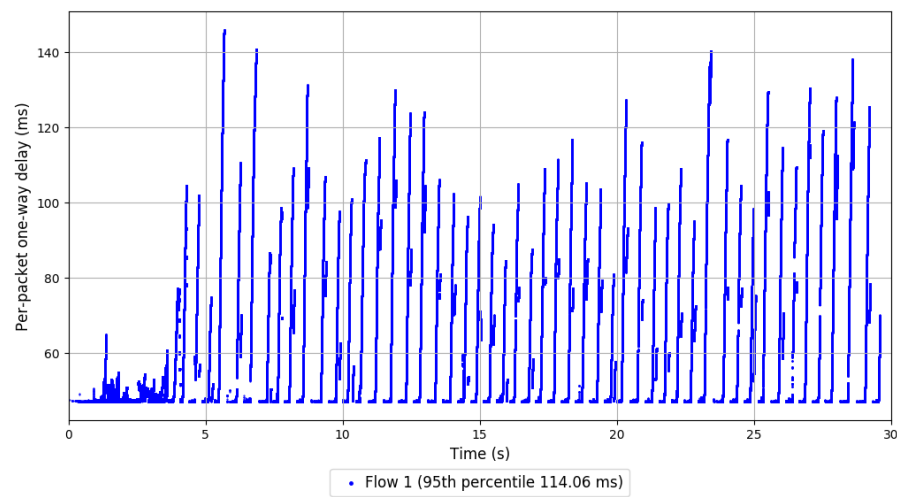
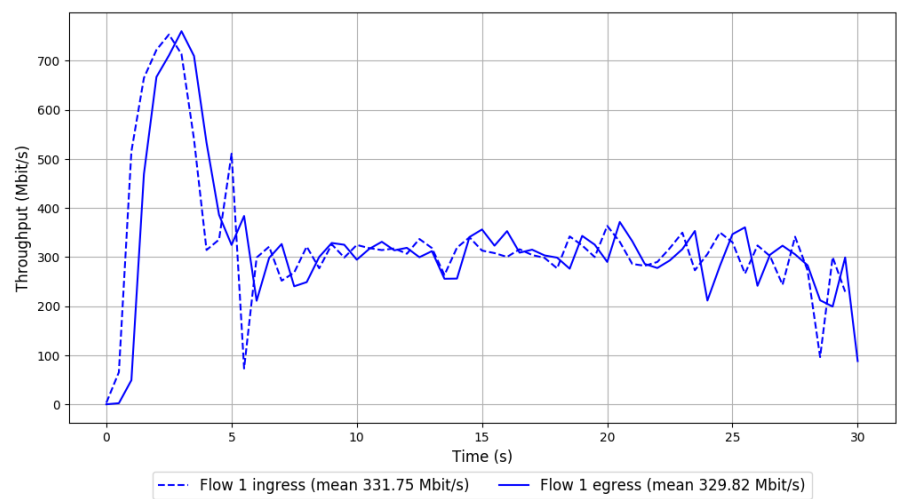


Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-18 18:03:21
End at: 2019-07-18 18:03:51
Local clock offset: -0.118 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2019-07-18 20:05:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 329.82 Mbit/s
95th percentile per-packet one-way delay: 114.064 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 329.82 Mbit/s
95th percentile per-packet one-way delay: 114.064 ms
Loss rate: 0.90%

Run 5: Report of Muses_DecisionTreeH0 — Data Link

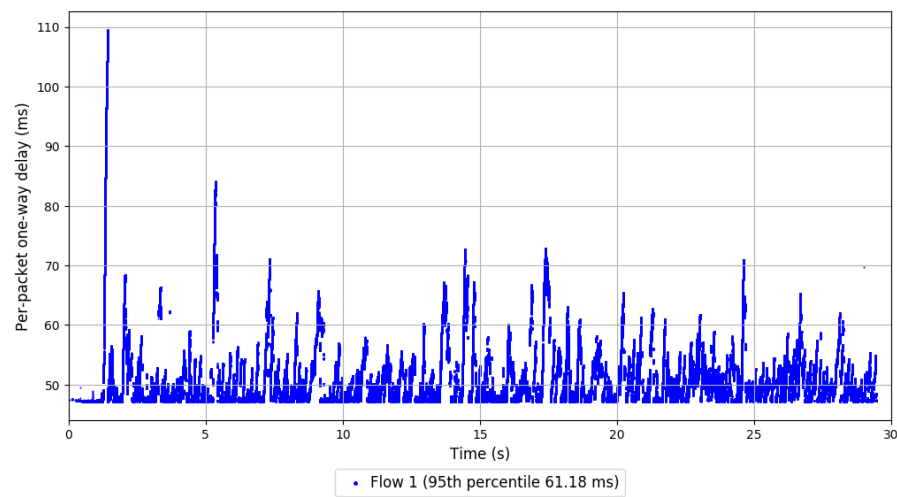
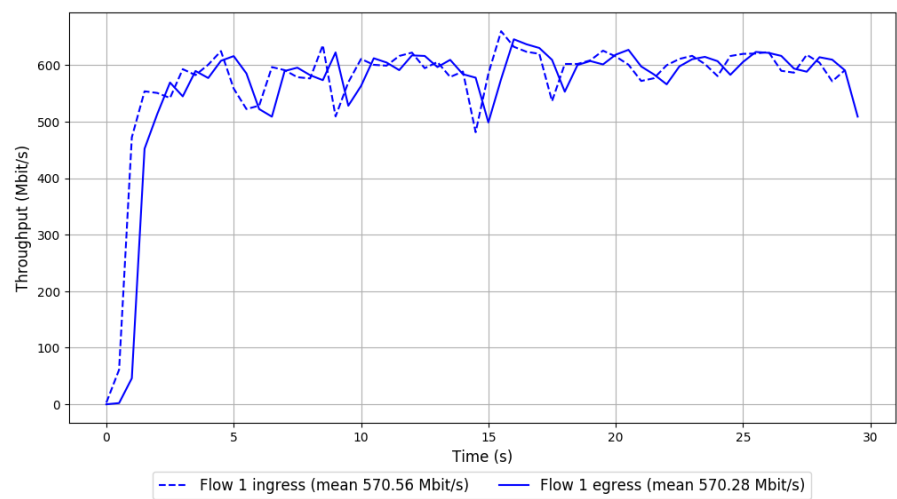


Run 1: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-18 15:46:23
End at: 2019-07-18 15:46:53
Local clock offset: -0.073 ms
Remote clock offset: -0.195 ms

Below is generated by plot.py at 2019-07-18 20:10:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 570.28 Mbit/s
95th percentile per-packet one-way delay: 61.182 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 570.28 Mbit/s
95th percentile per-packet one-way delay: 61.182 ms
Loss rate: 0.37%

Run 1: Report of Muses_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-18 16:20:44

End at: 2019-07-18 16:21:14

Local clock offset: -0.047 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2019-07-18 20:11:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 581.22 Mbit/s

95th percentile per-packet one-way delay: 62.301 ms

Loss rate: 0.45%

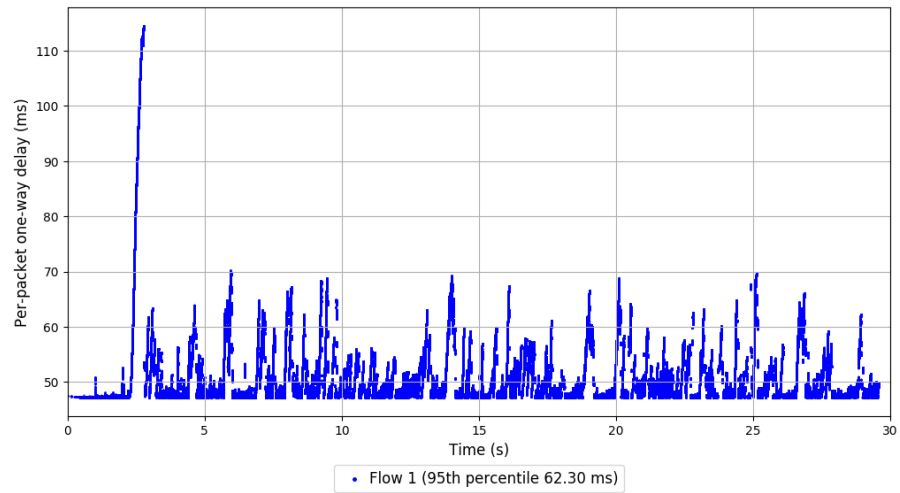
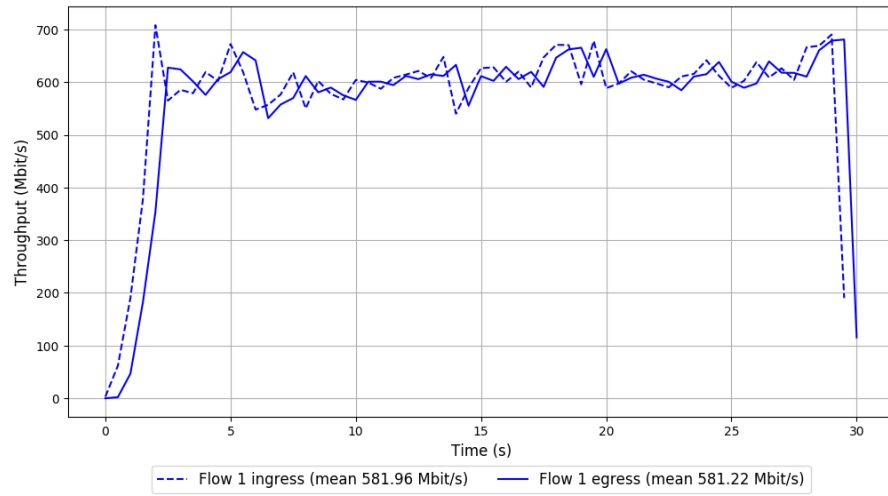
-- Flow 1:

Average throughput: 581.22 Mbit/s

95th percentile per-packet one-way delay: 62.301 ms

Loss rate: 0.45%

Run 2: Report of Muses_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-18 16:55:26

End at: 2019-07-18 16:55:56

Local clock offset: -0.171 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2019-07-18 20:11:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 557.69 Mbit/s

95th percentile per-packet one-way delay: 61.684 ms

Loss rate: 0.35%

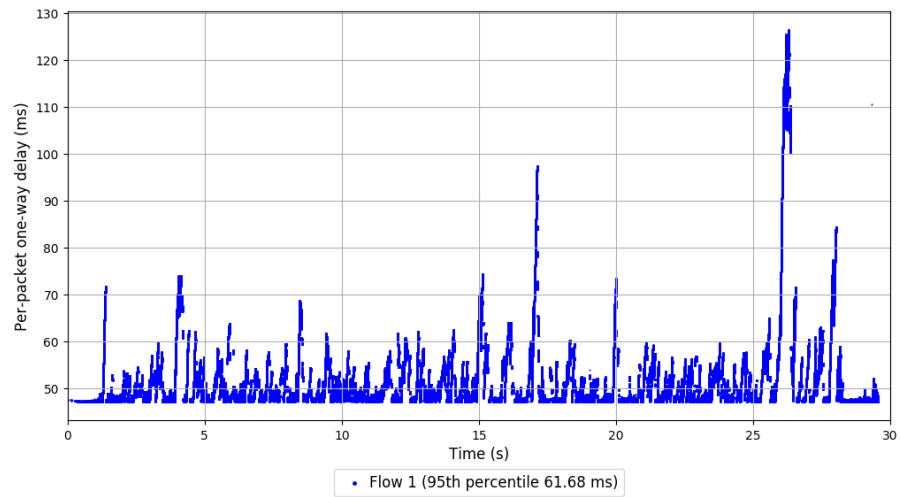
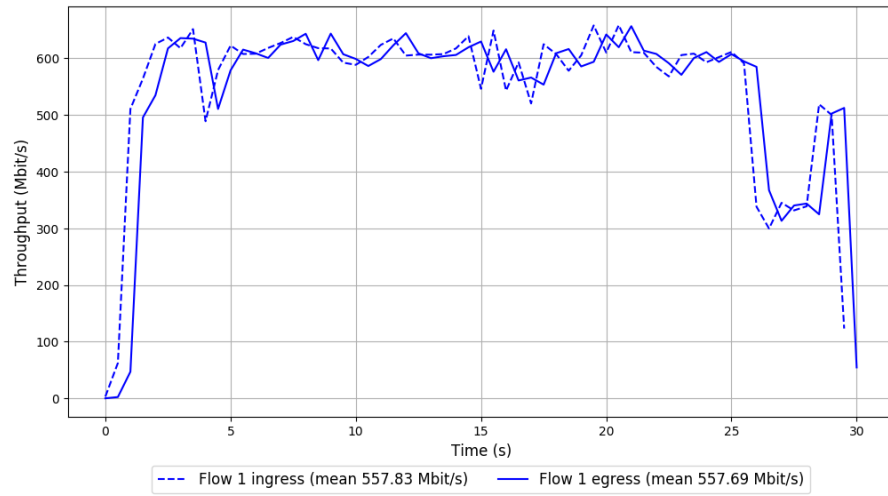
-- Flow 1:

Average throughput: 557.69 Mbit/s

95th percentile per-packet one-way delay: 61.684 ms

Loss rate: 0.35%

Run 3: Report of Muses_DecisionTreeR0 — Data Link

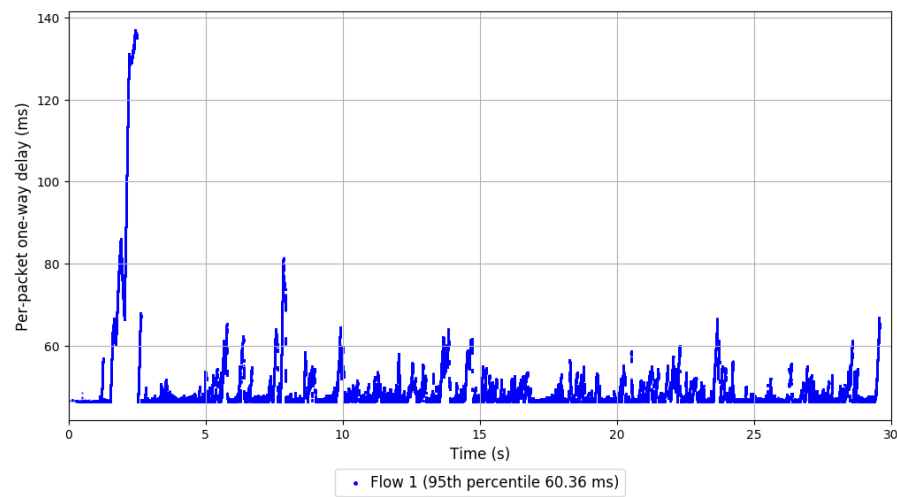
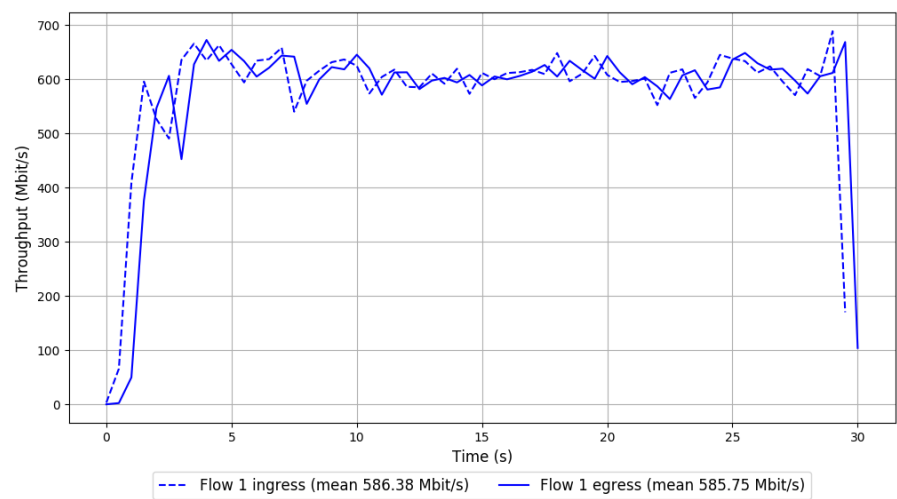


Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-18 17:29:56
End at: 2019-07-18 17:30:26
Local clock offset: -0.122 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2019-07-18 20:13:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 585.75 Mbit/s
95th percentile per-packet one-way delay: 60.362 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 585.75 Mbit/s
95th percentile per-packet one-way delay: 60.362 ms
Loss rate: 0.42%

Run 4: Report of Muses_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-18 18:04:44

End at: 2019-07-18 18:05:14

Local clock offset: -0.151 ms

Remote clock offset: -0.09 ms

Below is generated by plot.py at 2019-07-18 20:13:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 577.44 Mbit/s

95th percentile per-packet one-way delay: 58.715 ms

Loss rate: 0.36%

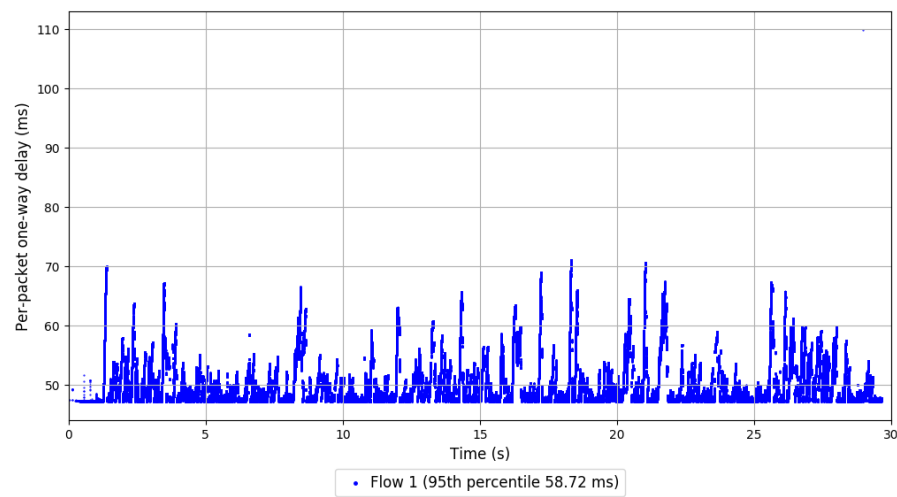
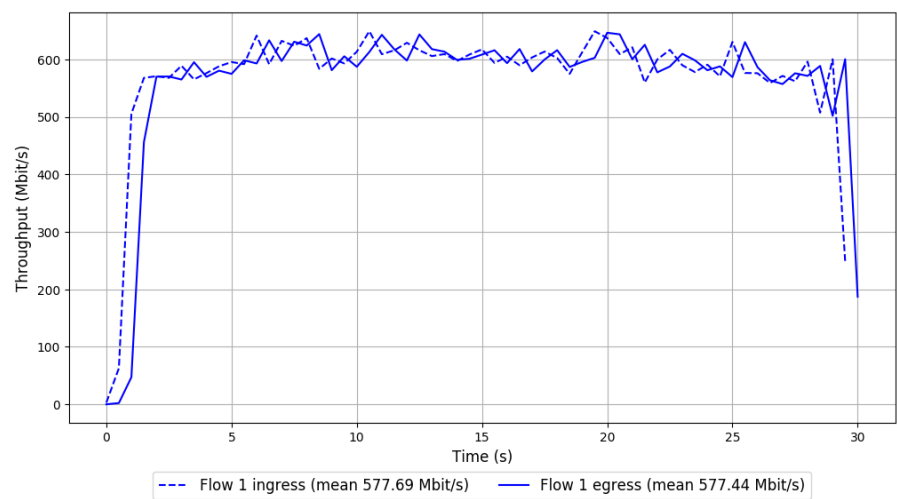
-- Flow 1:

Average throughput: 577.44 Mbit/s

95th percentile per-packet one-way delay: 58.715 ms

Loss rate: 0.36%

Run 5: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-07-18 16:03:27

End at: 2019-07-18 16:03:57

Local clock offset: -0.008 ms

Remote clock offset: -0.013 ms

Below is generated by plot.py at 2019-07-18 20:15:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.28 Mbit/s

95th percentile per-packet one-way delay: 67.774 ms

Loss rate: 0.79%

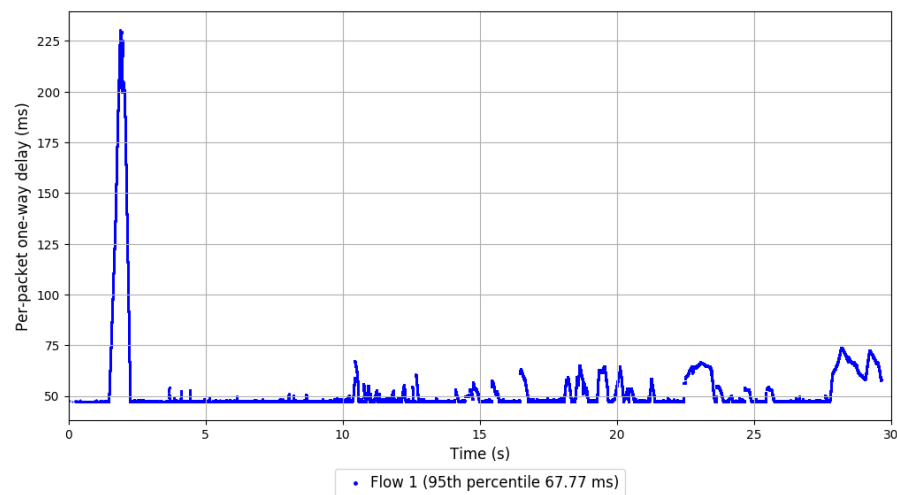
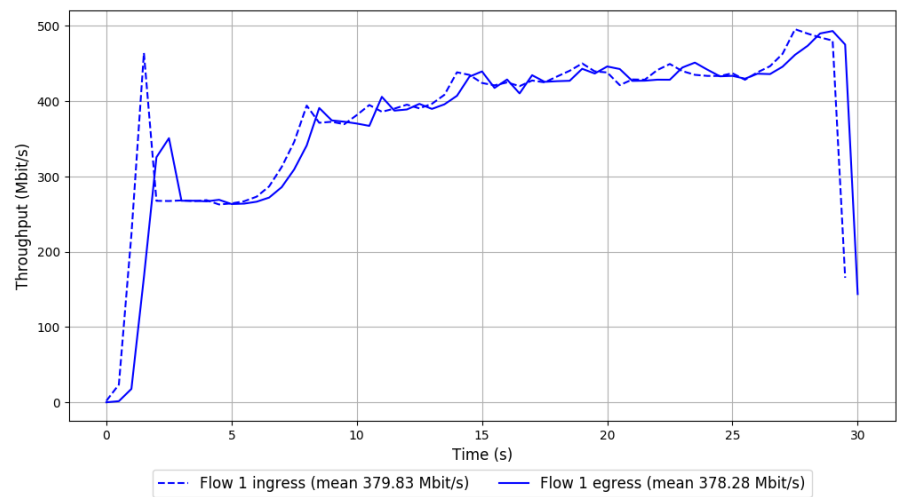
-- Flow 1:

Average throughput: 378.28 Mbit/s

95th percentile per-packet one-way delay: 67.774 ms

Loss rate: 0.79%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-07-18 16:38:15

End at: 2019-07-18 16:38:45

Local clock offset: -0.122 ms

Remote clock offset: 0.037 ms

Below is generated by plot.py at 2019-07-18 20:16:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 383.88 Mbit/s

95th percentile per-packet one-way delay: 70.646 ms

Loss rate: 0.44%

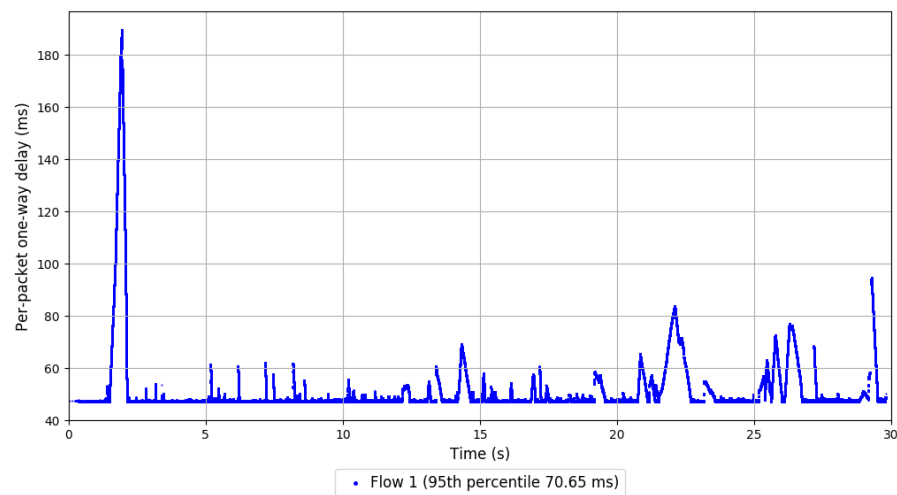
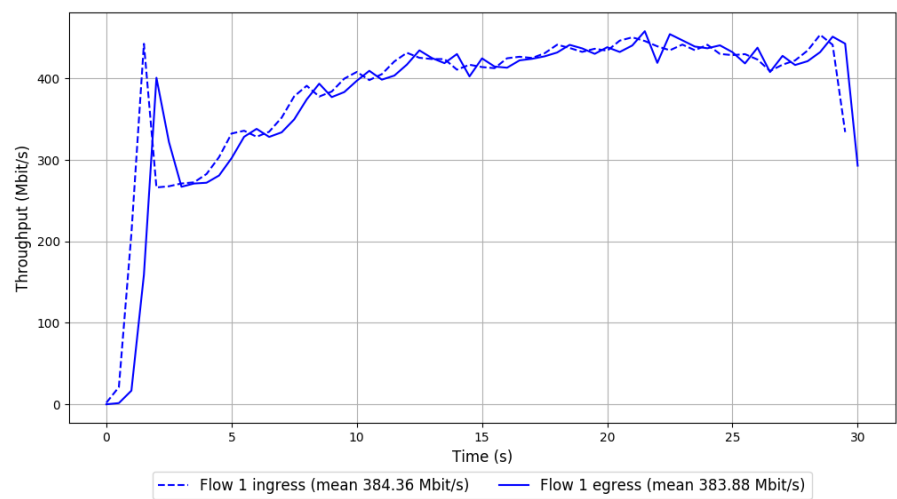
-- Flow 1:

Average throughput: 383.88 Mbit/s

95th percentile per-packet one-way delay: 70.646 ms

Loss rate: 0.44%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-07-18 17:12:42

End at: 2019-07-18 17:13:12

Local clock offset: 0.202 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2019-07-18 20:19:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 400.07 Mbit/s

95th percentile per-packet one-way delay: 163.409 ms

Loss rate: 2.55%

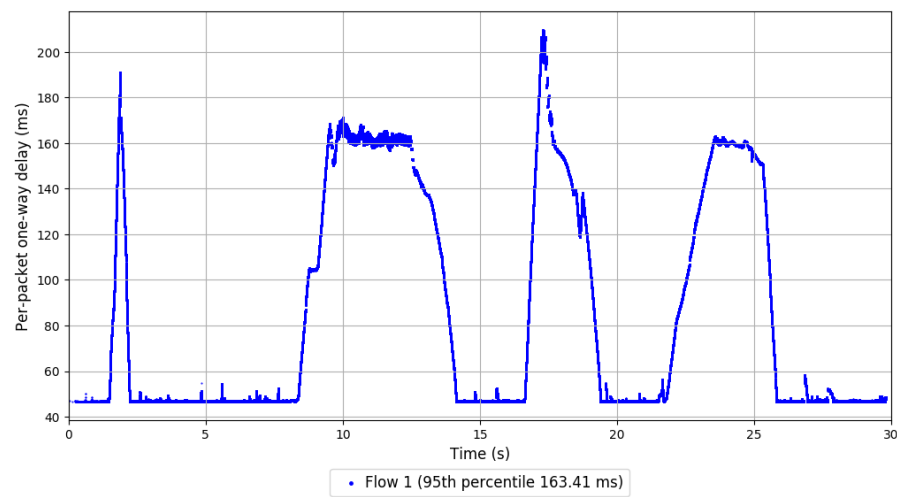
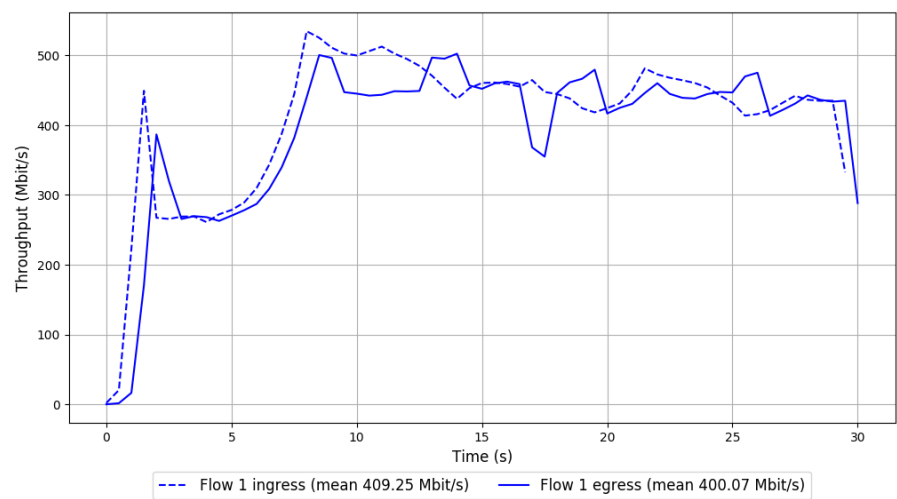
-- Flow 1:

Average throughput: 400.07 Mbit/s

95th percentile per-packet one-way delay: 163.409 ms

Loss rate: 2.55%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-07-18 17:47:32

End at: 2019-07-18 17:48:02

Local clock offset: -0.11 ms

Remote clock offset: -0.041 ms

Below is generated by plot.py at 2019-07-18 20:27:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 480.40 Mbit/s

95th percentile per-packet one-way delay: 163.336 ms

Loss rate: 3.08%

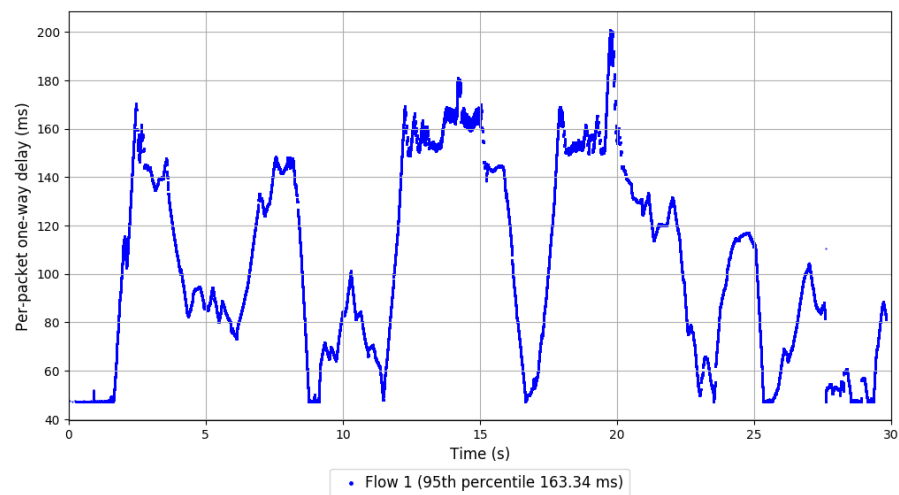
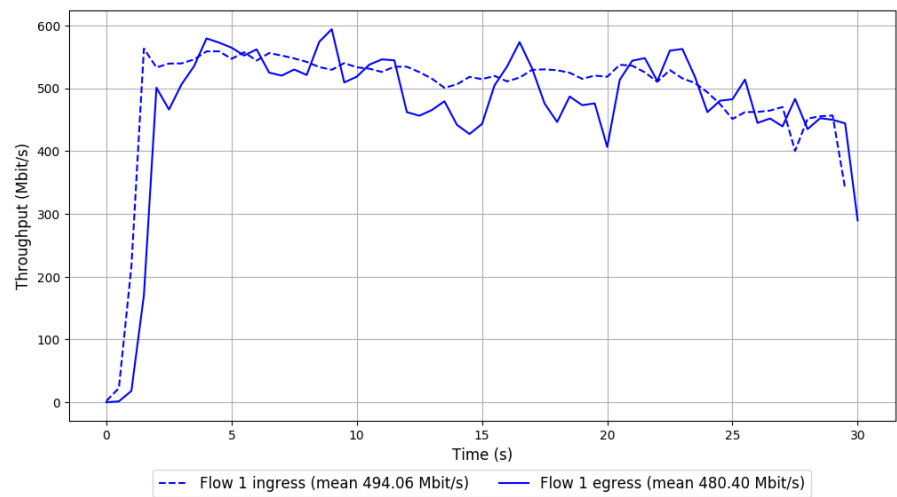
-- Flow 1:

Average throughput: 480.40 Mbit/s

95th percentile per-packet one-way delay: 163.336 ms

Loss rate: 3.08%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-07-18 18:22:32

End at: 2019-07-18 18:23:02

Local clock offset: -0.065 ms

Remote clock offset: -0.025 ms

Below is generated by plot.py at 2019-07-18 20:27:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 412.22 Mbit/s

95th percentile per-packet one-way delay: 163.927 ms

Loss rate: 2.31%

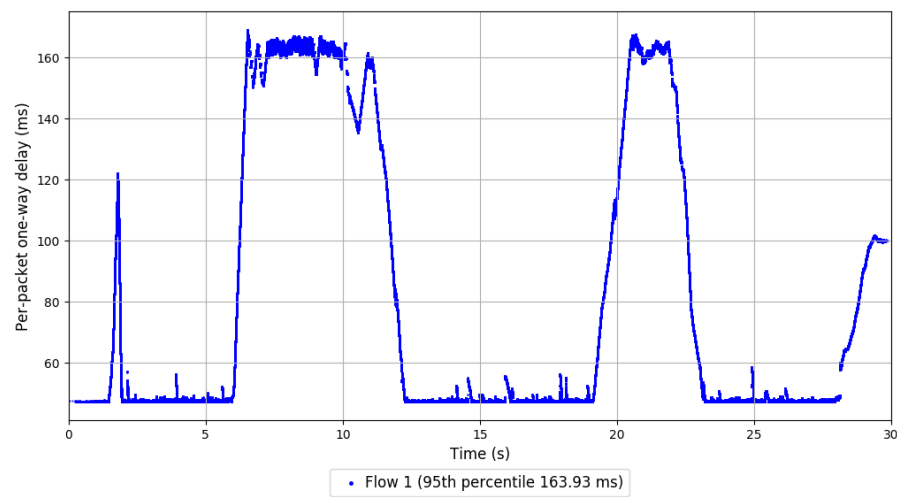
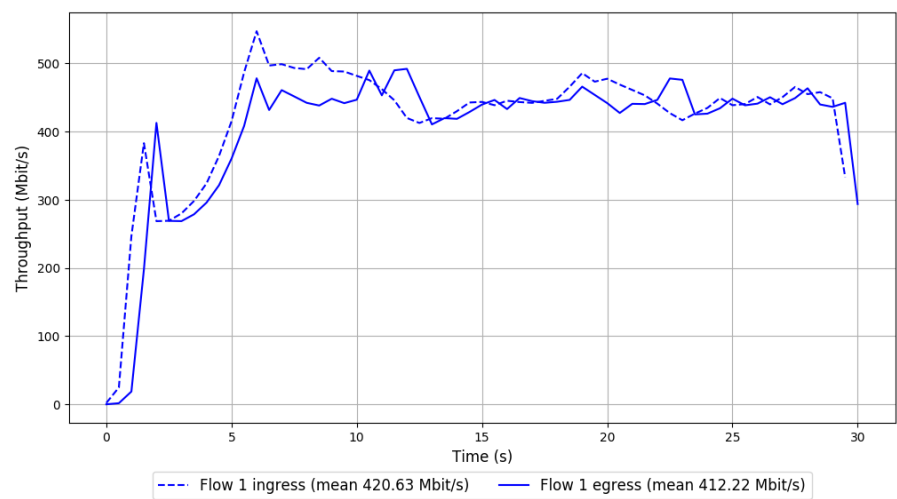
-- Flow 1:

Average throughput: 412.22 Mbit/s

95th percentile per-packet one-way delay: 163.927 ms

Loss rate: 2.31%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-07-18 15:52:08
End at: 2019-07-18 15:52:38
Local clock offset: -0.039 ms
Remote clock offset: -0.195 ms

Below is generated by plot.py at 2019-07-18 20:27:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 276.32 Mbit/s

95th percentile per-packet one-way delay: 74.097 ms

Loss rate: 0.45%

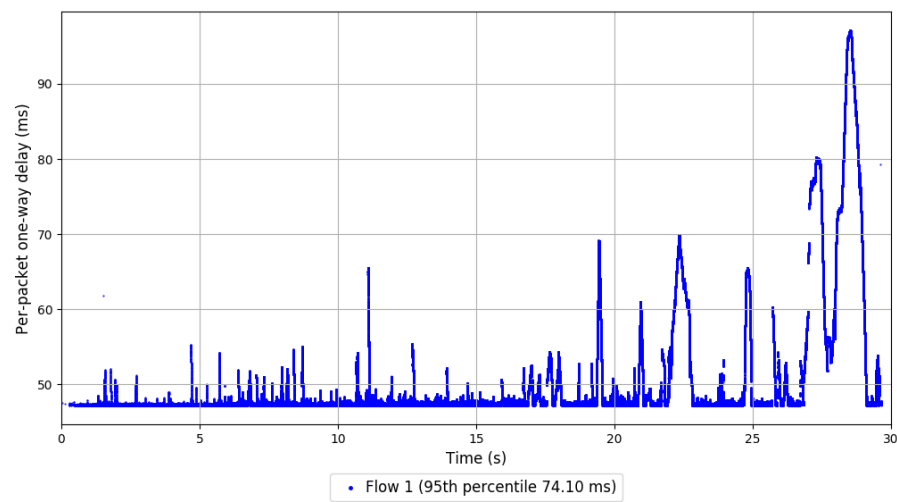
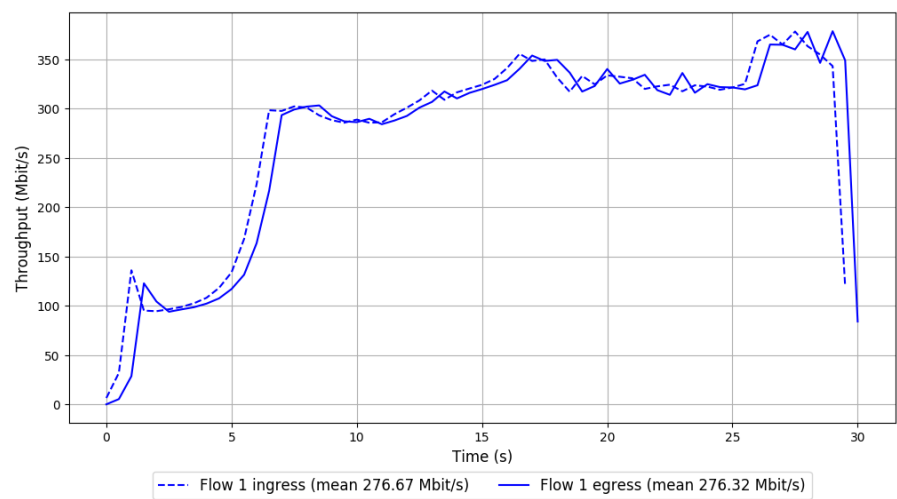
-- Flow 1:

Average throughput: 276.32 Mbit/s

95th percentile per-packet one-way delay: 74.097 ms

Loss rate: 0.45%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-07-18 16:26:32

End at: 2019-07-18 16:27:02

Local clock offset: -0.03 ms

Remote clock offset: 0.113 ms

Below is generated by plot.py at 2019-07-18 20:27:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 287.72 Mbit/s

95th percentile per-packet one-way delay: 77.161 ms

Loss rate: 0.61%

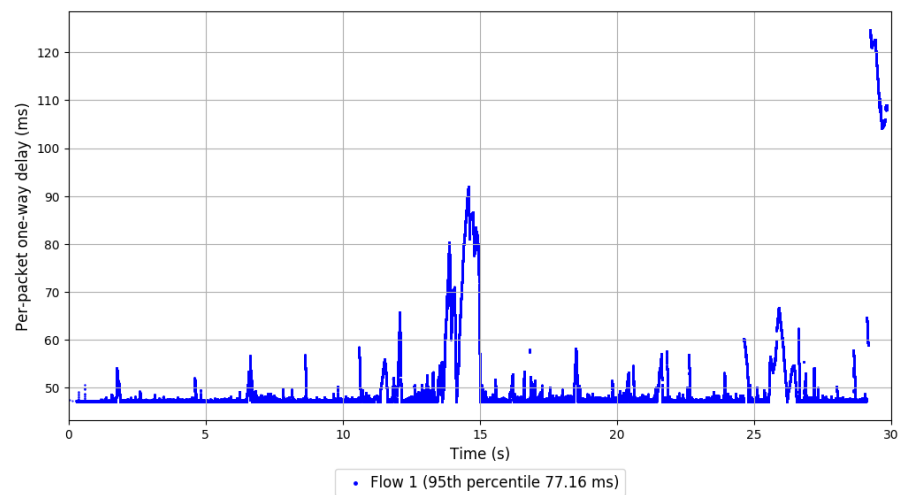
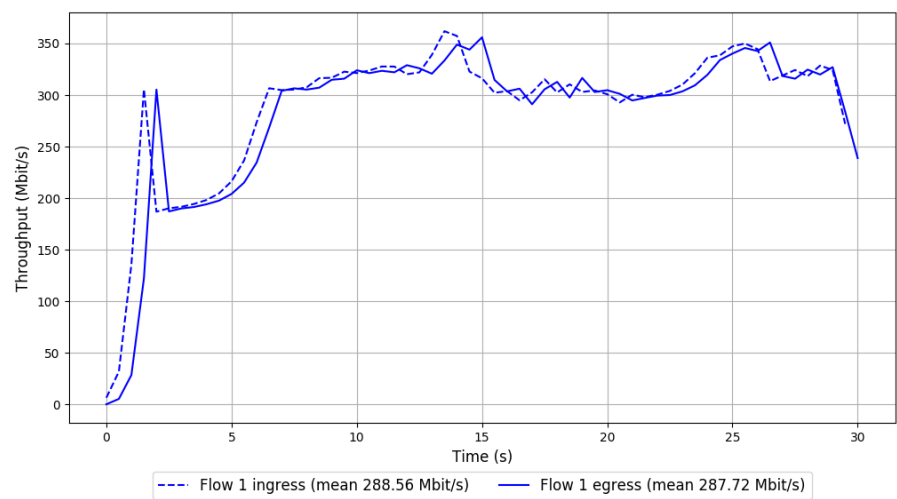
-- Flow 1:

Average throughput: 287.72 Mbit/s

95th percentile per-packet one-way delay: 77.161 ms

Loss rate: 0.61%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-07-18 17:01:10

End at: 2019-07-18 17:01:40

Local clock offset: -0.183 ms

Remote clock offset: 0.056 ms

Below is generated by plot.py at 2019-07-18 20:27:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 284.08 Mbit/s

95th percentile per-packet one-way delay: 147.280 ms

Loss rate: 1.69%

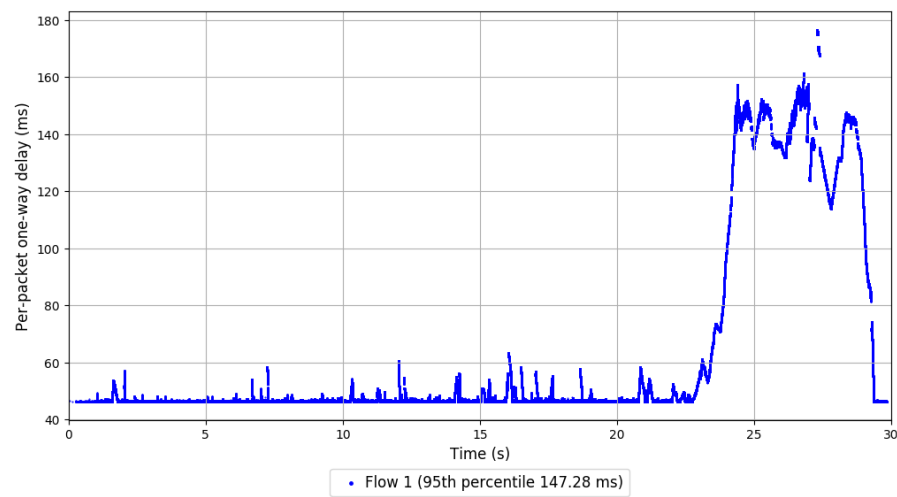
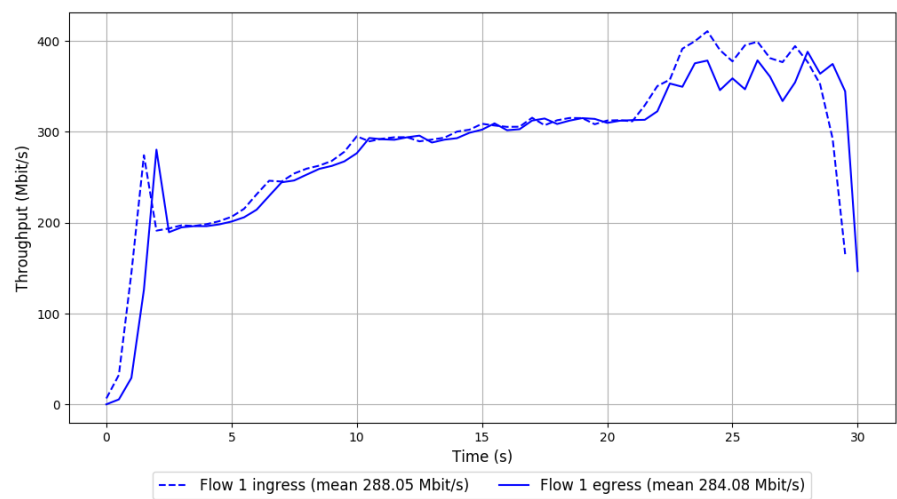
-- Flow 1:

Average throughput: 284.08 Mbit/s

95th percentile per-packet one-way delay: 147.280 ms

Loss rate: 1.69%

Run 3: Report of PCC-Expr — Data Link

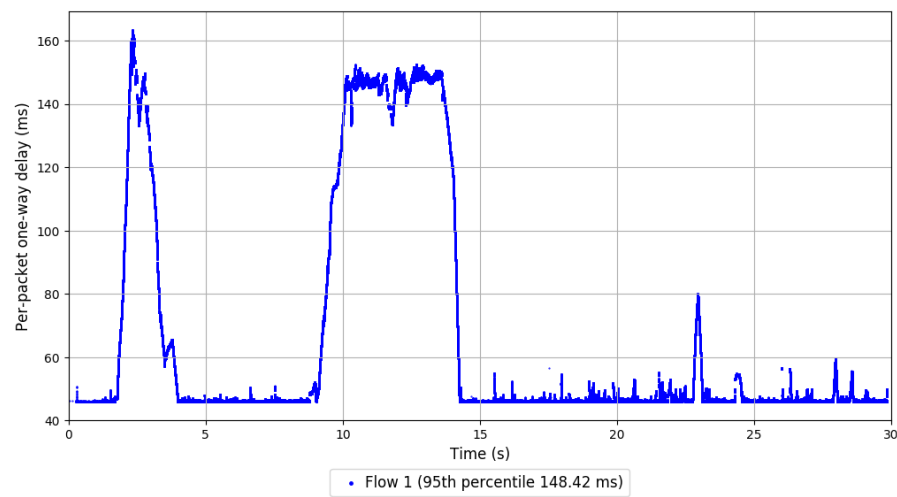
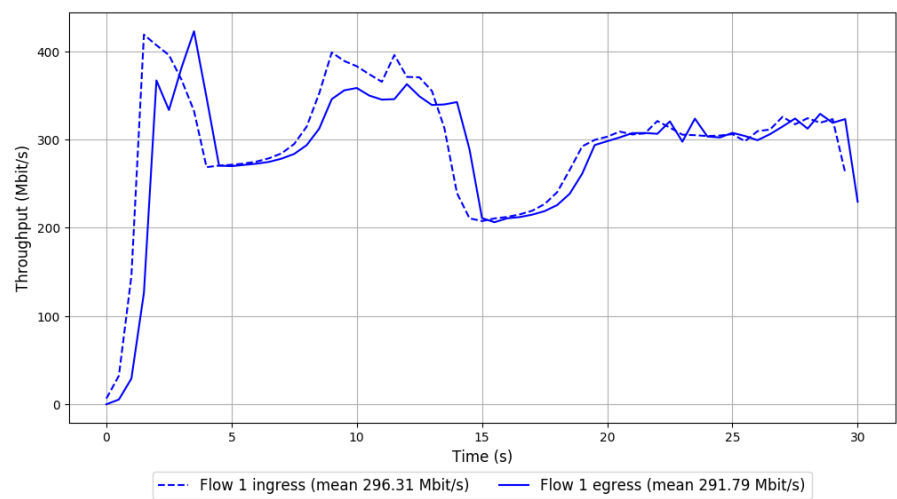


Run 4: Statistics of PCC-Expr

Start at: 2019-07-18 17:35:43
End at: 2019-07-18 17:36:13
Local clock offset: -0.5 ms
Remote clock offset: -0.007 ms

Below is generated by plot.py at 2019-07-18 20:27:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 291.79 Mbit/s
95th percentile per-packet one-way delay: 148.421 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 291.79 Mbit/s
95th percentile per-packet one-way delay: 148.421 ms
Loss rate: 1.84%

Run 4: Report of PCC-Expr — Data Link

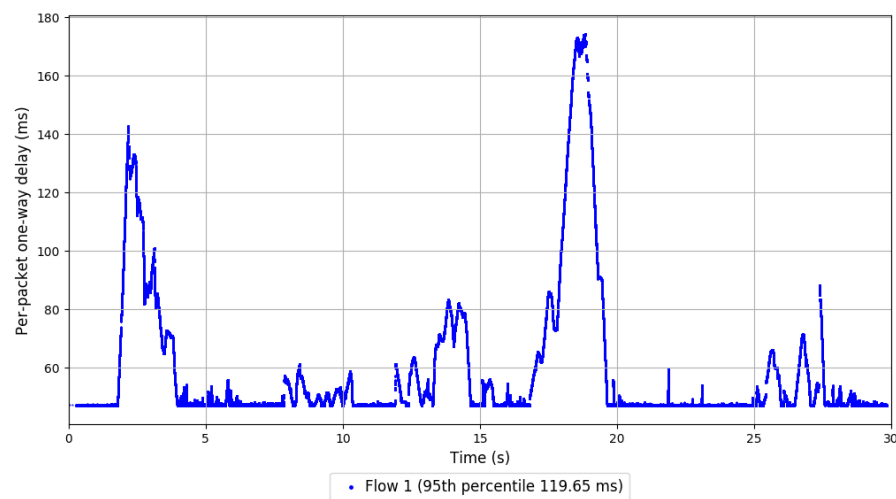
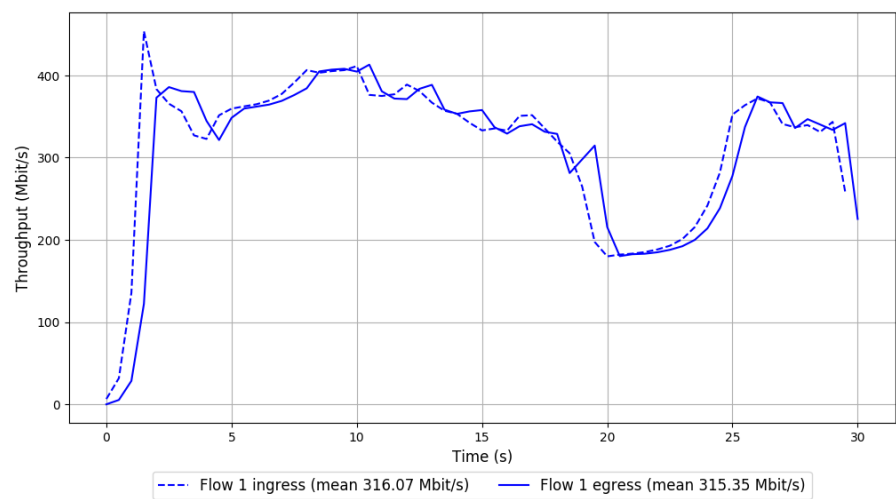


Run 5: Statistics of PCC-Expr

Start at: 2019-07-18 18:10:30
End at: 2019-07-18 18:11:00
Local clock offset: -0.169 ms
Remote clock offset: -0.072 ms

Below is generated by plot.py at 2019-07-18 20:27:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 315.35 Mbit/s
95th percentile per-packet one-way delay: 119.653 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 315.35 Mbit/s
95th percentile per-packet one-way delay: 119.653 ms
Loss rate: 0.55%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

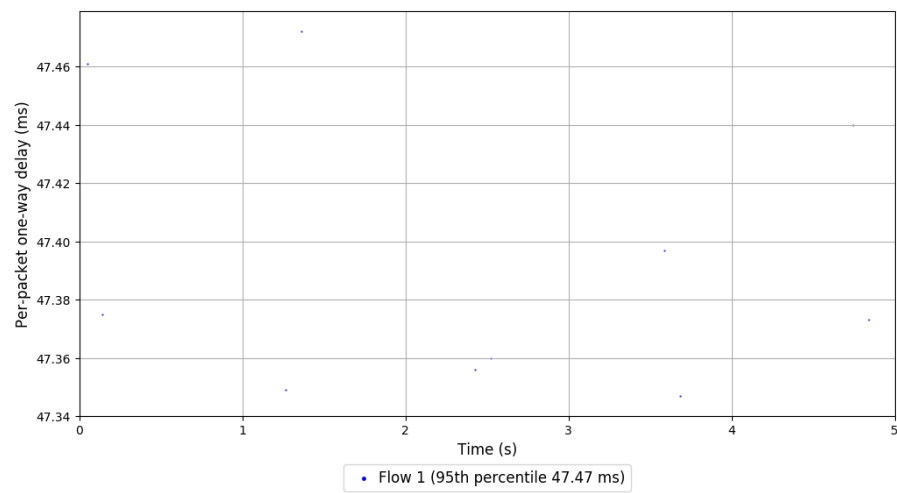
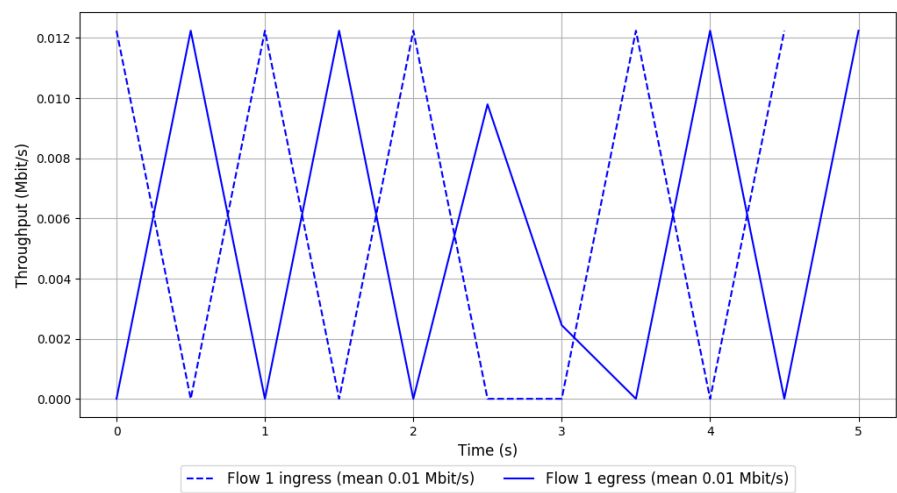
Start at: 2019-07-18 15:43:56

End at: 2019-07-18 15:44:26

Local clock offset: -0.072 ms

Remote clock offset: -0.187 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-07-18 16:18:10

End at: 2019-07-18 16:18:40

Local clock offset: -0.029 ms

Remote clock offset: 0.037 ms

Below is generated by plot.py at 2019-07-18 20:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.51 Mbit/s

95th percentile per-packet one-way delay: 47.270 ms

Loss rate: 0.50%

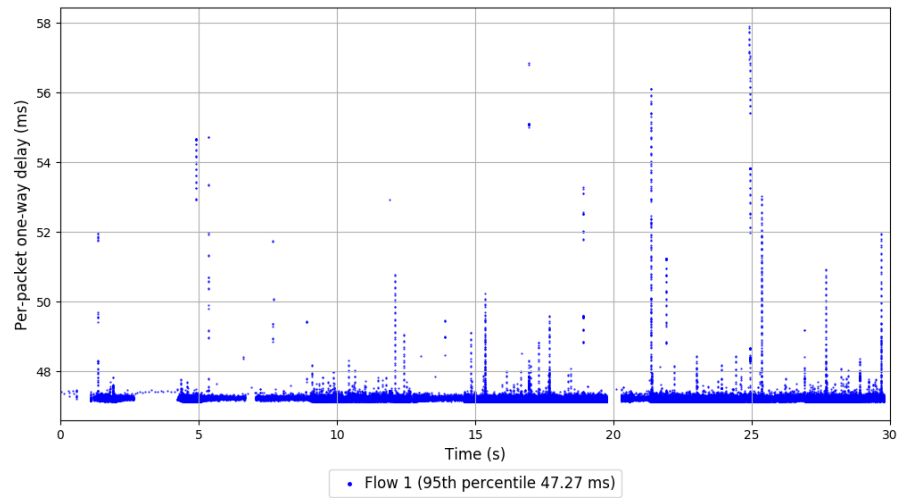
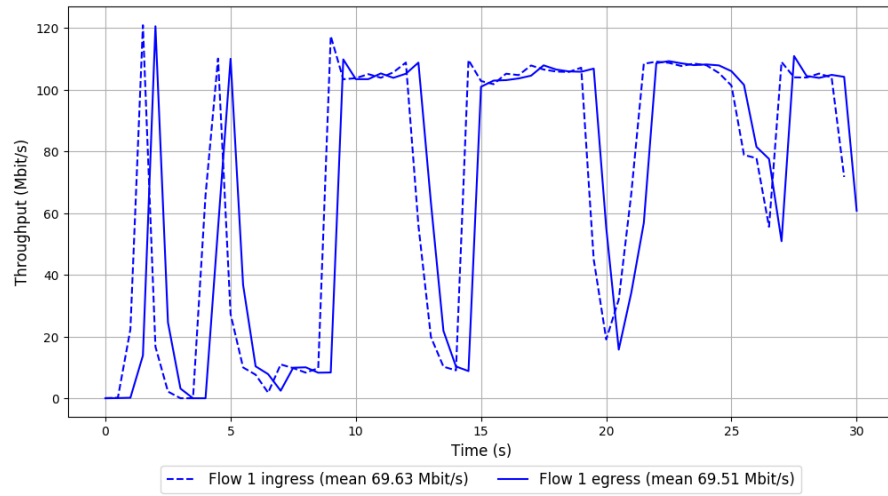
-- Flow 1:

Average throughput: 69.51 Mbit/s

95th percentile per-packet one-way delay: 47.270 ms

Loss rate: 0.50%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-07-18 16:52:55

End at: 2019-07-18 16:53:25

Local clock offset: -0.195 ms

Remote clock offset: 0.043 ms

Below is generated by plot.py at 2019-07-18 20:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.02 Mbit/s

95th percentile per-packet one-way delay: 46.393 ms

Loss rate: 0.62%

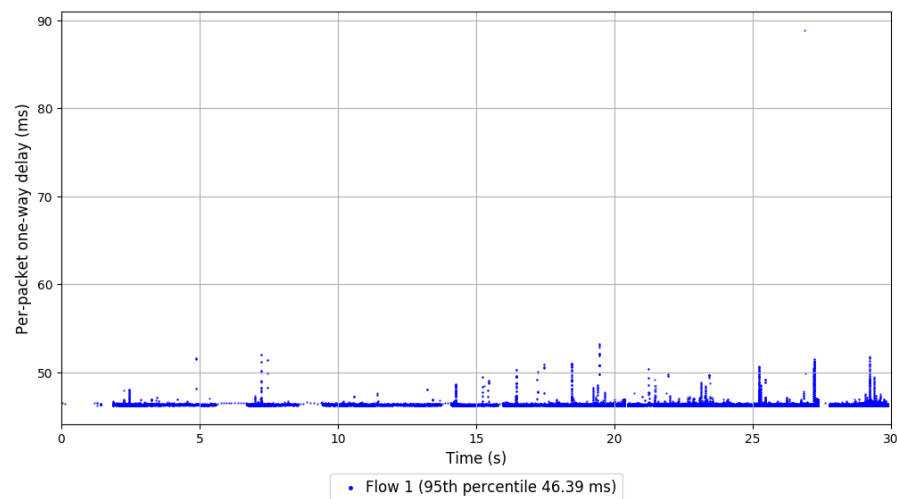
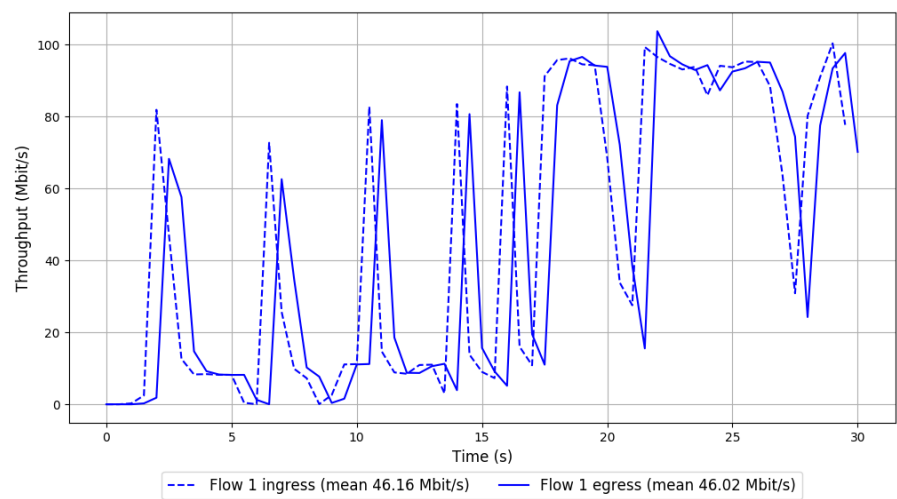
-- Flow 1:

Average throughput: 46.02 Mbit/s

95th percentile per-packet one-way delay: 46.393 ms

Loss rate: 0.62%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-07-18 17:27:23

End at: 2019-07-18 17:27:53

Local clock offset: -0.128 ms

Remote clock offset: -0.031 ms

Below is generated by plot.py at 2019-07-18 20:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.84 Mbit/s

95th percentile per-packet one-way delay: 46.472 ms

Loss rate: 0.45%

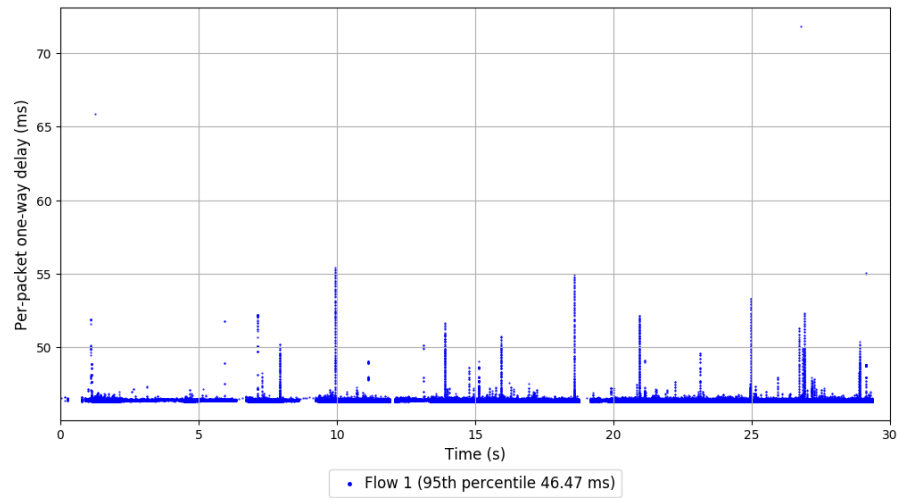
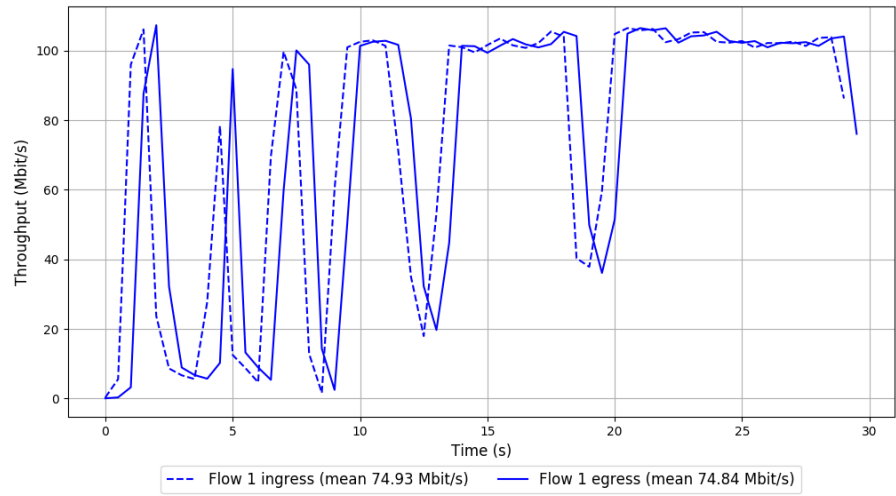
-- Flow 1:

Average throughput: 74.84 Mbit/s

95th percentile per-packet one-way delay: 46.472 ms

Loss rate: 0.45%

Run 4: Report of QUIC Cubic — Data Link

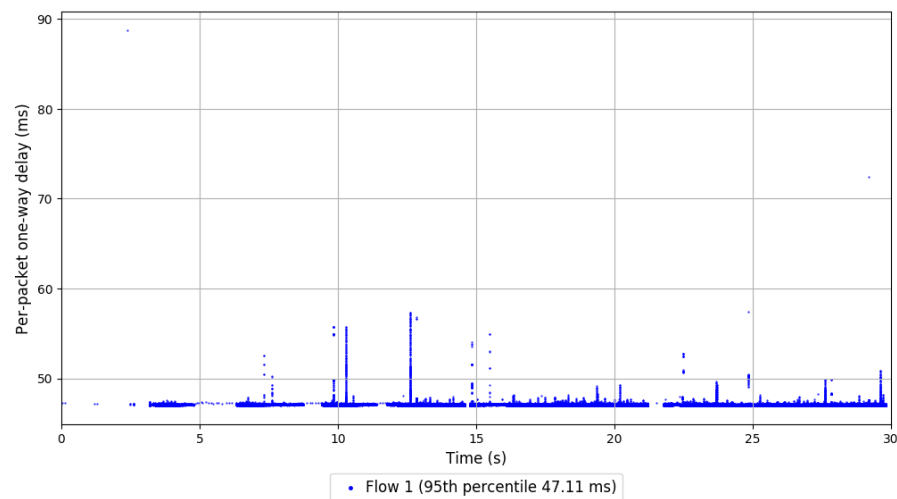
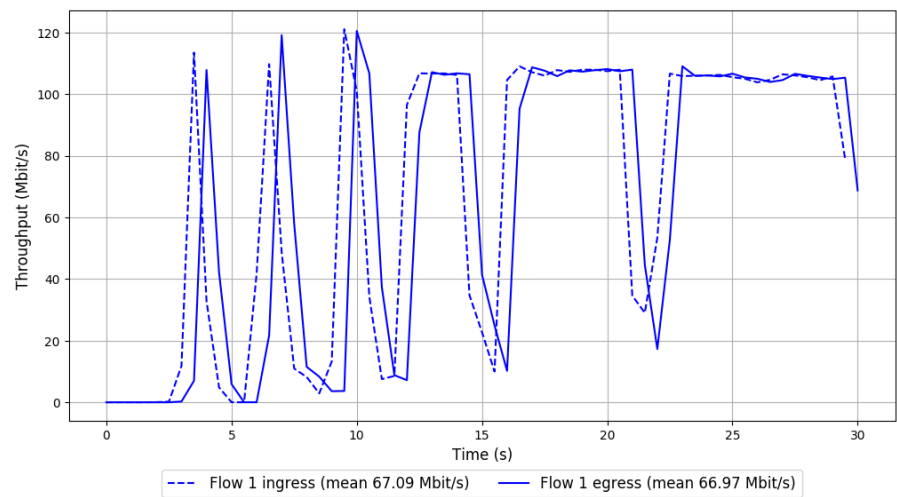


Run 5: Statistics of QUIC Cubic

Start at: 2019-07-18 18:02:10
End at: 2019-07-18 18:02:40
Local clock offset: -0.119 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2019-07-18 20:27:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 66.97 Mbit/s
95th percentile per-packet one-way delay: 47.110 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 66.97 Mbit/s
95th percentile per-packet one-way delay: 47.110 ms
Loss rate: 0.50%

Run 5: Report of QUIC Cubic — Data Link

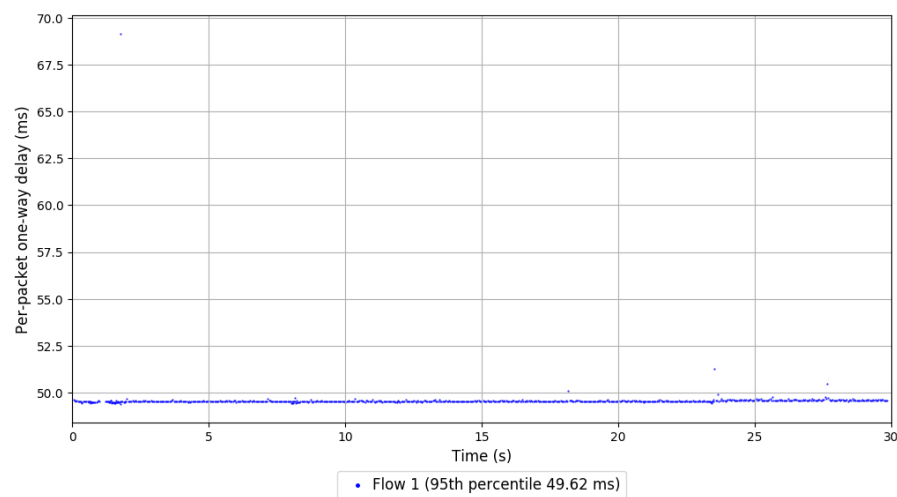
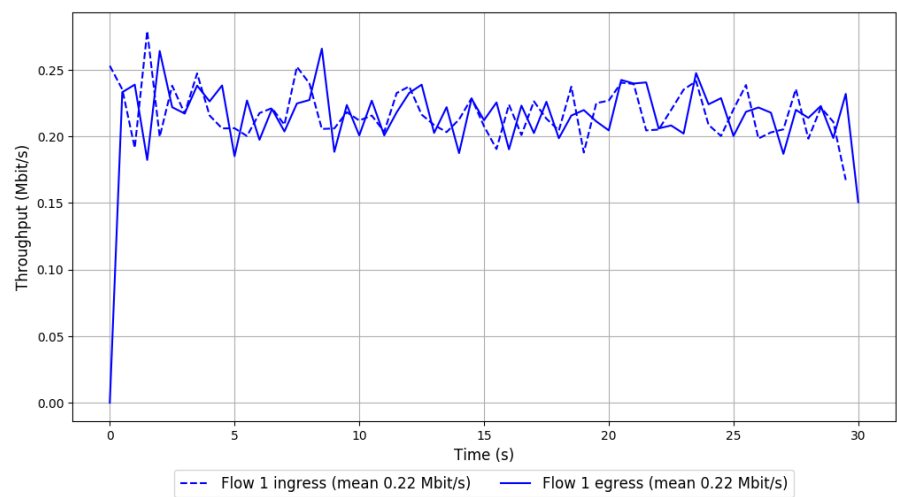


```
Run 1: Statistics of SCReAM

Start at: 2019-07-18 15:51:00
End at: 2019-07-18 15:51:30
Local clock offset: -0.069 ms
Remote clock offset: -0.223 ms

# Below is generated by plot.py at 2019-07-18 20:27:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.622 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.622 ms
Loss rate: 0.25%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-07-18 16:25:24

End at: 2019-07-18 16:25:54

Local clock offset: -0.021 ms

Remote clock offset: 0.053 ms

Below is generated by plot.py at 2019-07-18 20:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.494 ms

Loss rate: 0.38%

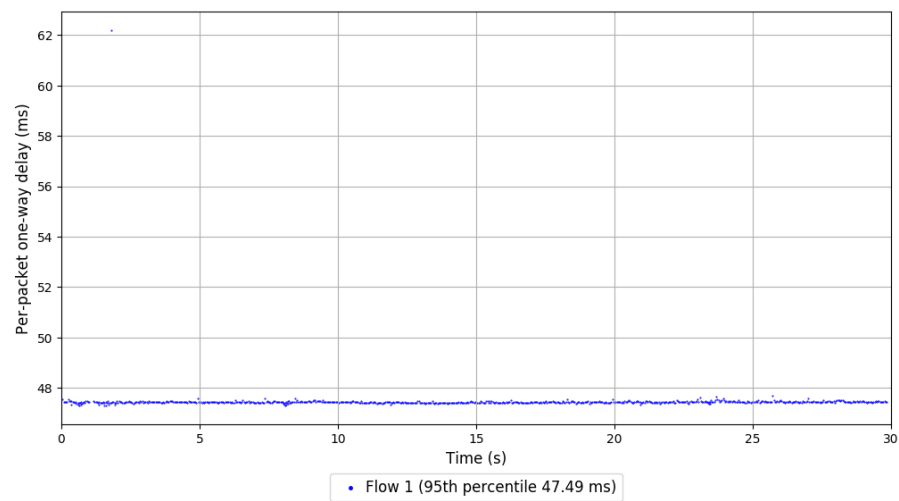
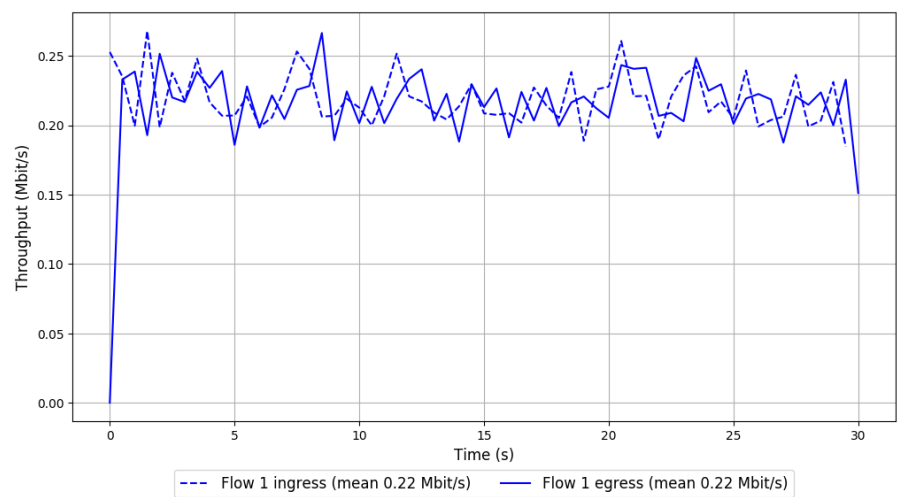
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.494 ms

Loss rate: 0.38%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-07-18 17:00:03

End at: 2019-07-18 17:00:33

Local clock offset: -0.214 ms

Remote clock offset: 0.042 ms

Below is generated by plot.py at 2019-07-18 20:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.458 ms

Loss rate: 0.26%

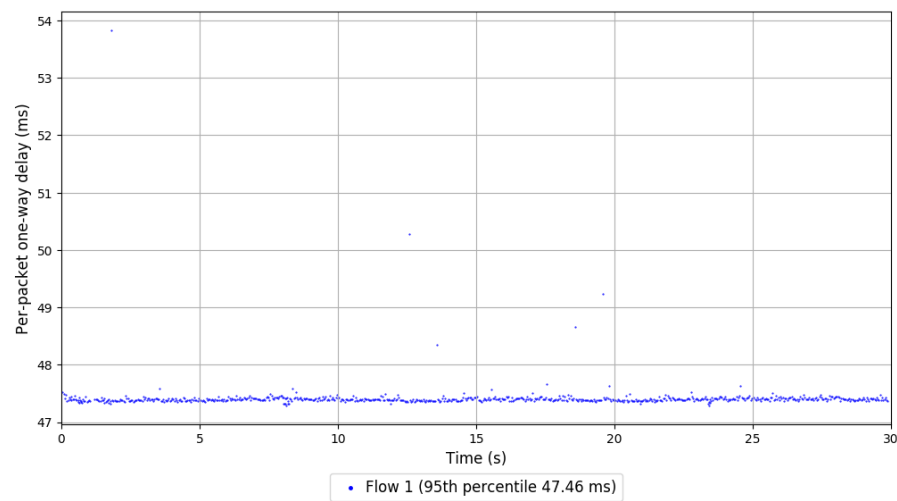
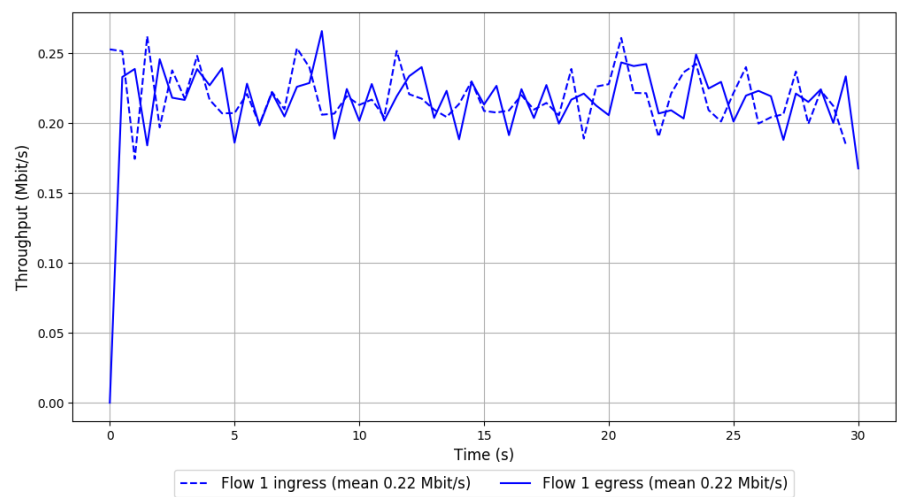
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.458 ms

Loss rate: 0.26%

Run 3: Report of SReAM — Data Link

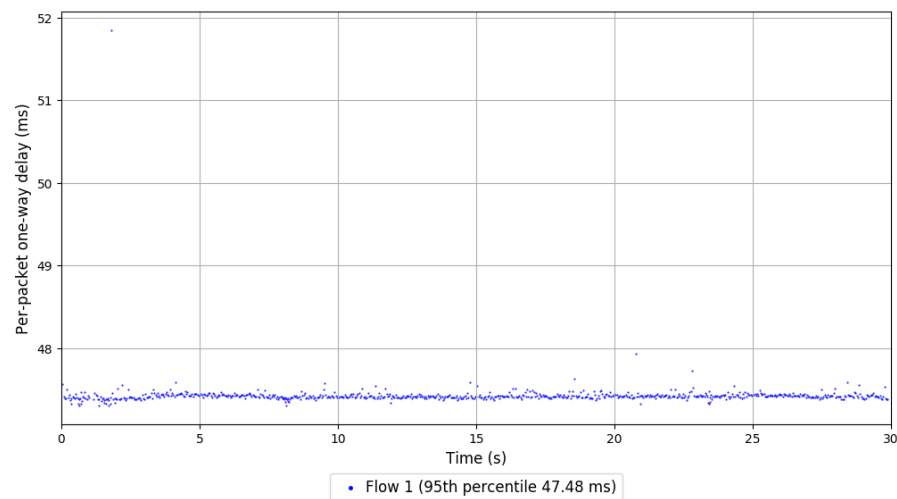
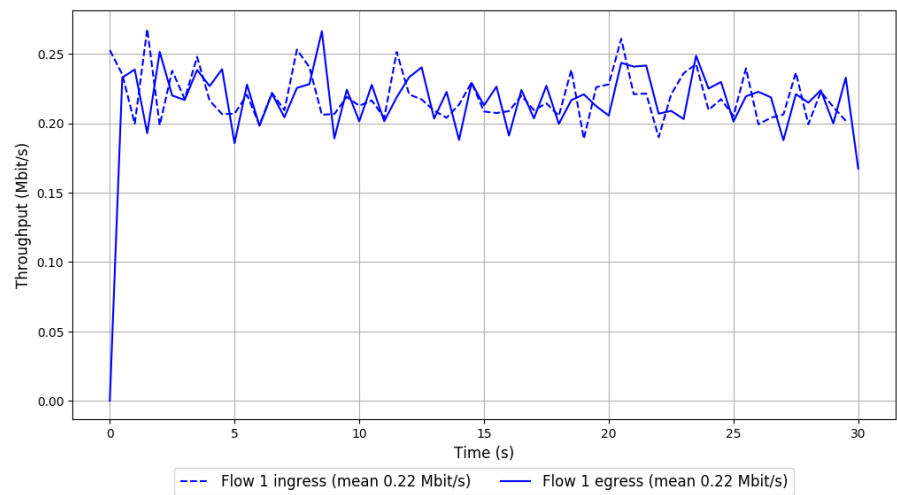


Run 4: Statistics of SCReAM

Start at: 2019-07-18 17:34:36
End at: 2019-07-18 17:35:06
Local clock offset: -0.124 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2019-07-18 20:27:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.484 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.484 ms
Loss rate: 0.39%

Run 4: Report of SReAM — Data Link

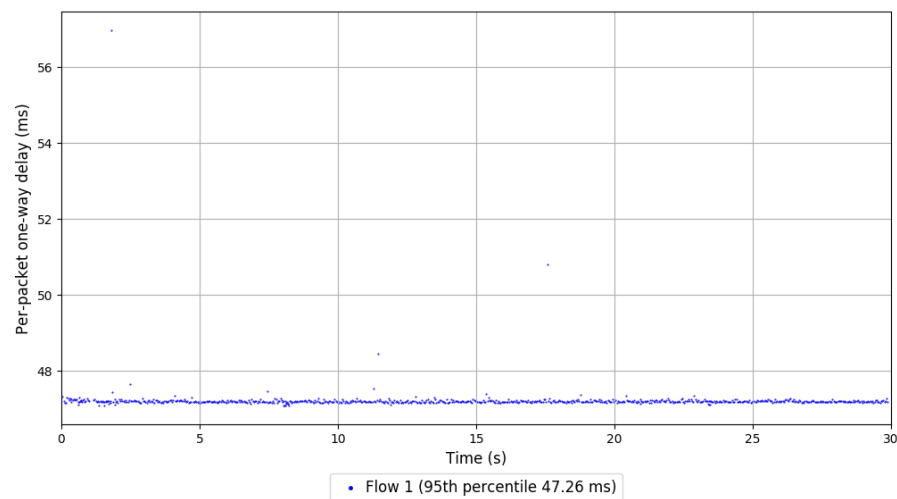
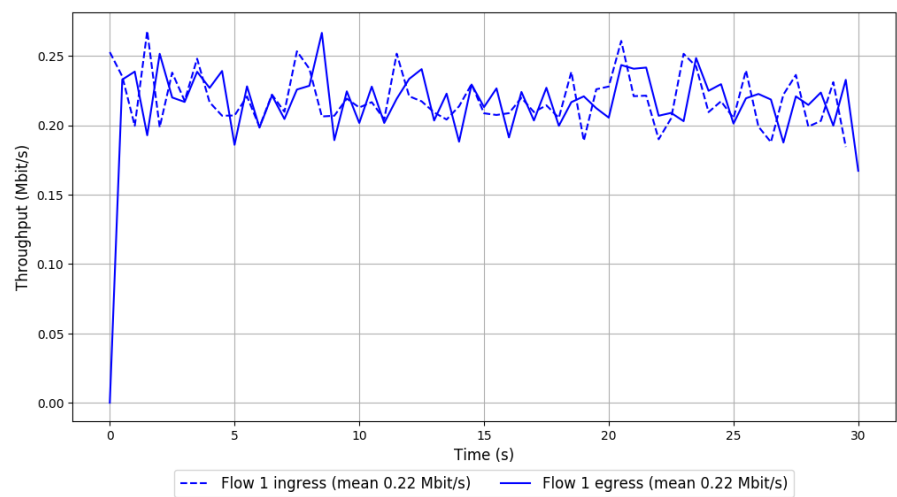


Run 5: Statistics of SCReAM

Start at: 2019-07-18 18:09:22
End at: 2019-07-18 18:09:52
Local clock offset: -0.163 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2019-07-18 20:27:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.259 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.259 ms
Loss rate: 0.26%

Run 5: Report of SReAM — Data Link

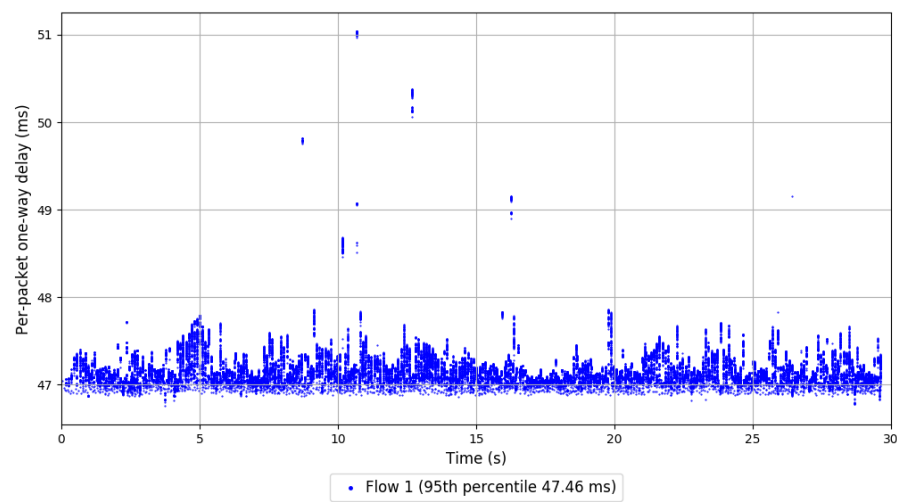
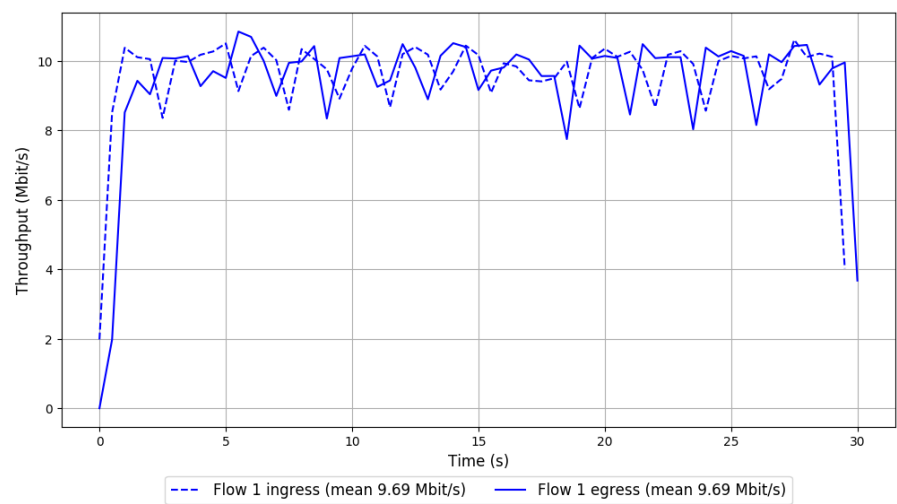


Run 1: Statistics of Sprout

Start at: 2019-07-18 15:55:05
End at: 2019-07-18 15:55:35
Local clock offset: -0.475 ms
Remote clock offset: -0.111 ms

Below is generated by plot.py at 2019-07-18 20:27:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.69 Mbit/s
95th percentile per-packet one-way delay: 47.463 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 9.69 Mbit/s
95th percentile per-packet one-way delay: 47.463 ms
Loss rate: 0.35%

Run 1: Report of Sprout — Data Link

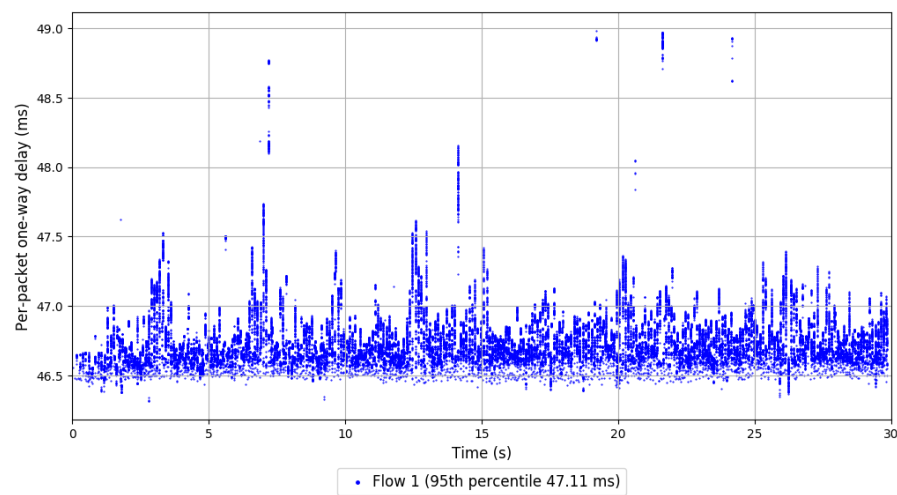
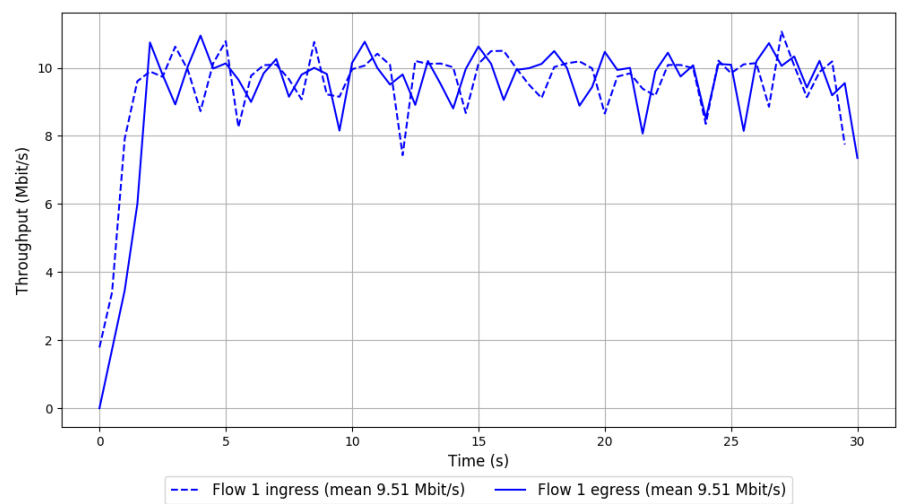


Run 2: Statistics of Sprout

Start at: 2019-07-18 16:29:20
End at: 2019-07-18 16:29:50
Local clock offset: -0.045 ms
Remote clock offset: 0.053 ms

Below is generated by plot.py at 2019-07-18 20:27:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.51 Mbit/s
95th percentile per-packet one-way delay: 47.114 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 9.51 Mbit/s
95th percentile per-packet one-way delay: 47.114 ms
Loss rate: 0.36%

Run 2: Report of Sprout — Data Link

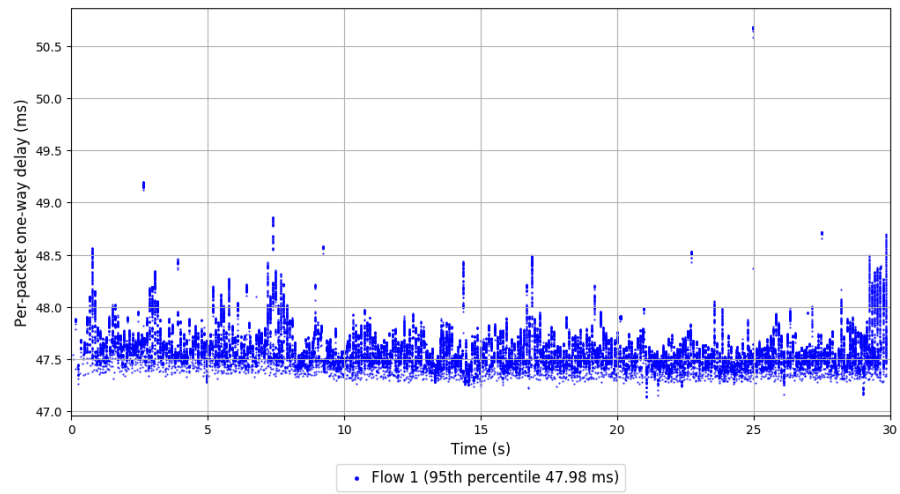
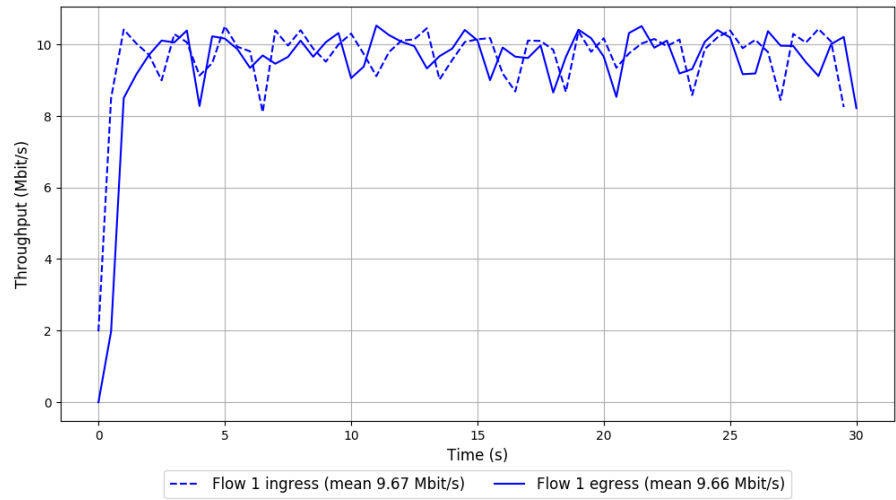


Run 3: Statistics of Sprout

Start at: 2019-07-18 17:04:05
End at: 2019-07-18 17:04:35
Local clock offset: -0.195 ms
Remote clock offset: 0.06 ms

Below is generated by plot.py at 2019-07-18 20:27:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.66 Mbit/s
95th percentile per-packet one-way delay: 47.978 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 9.66 Mbit/s
95th percentile per-packet one-way delay: 47.978 ms
Loss rate: 0.35%

Run 3: Report of Sprout — Data Link

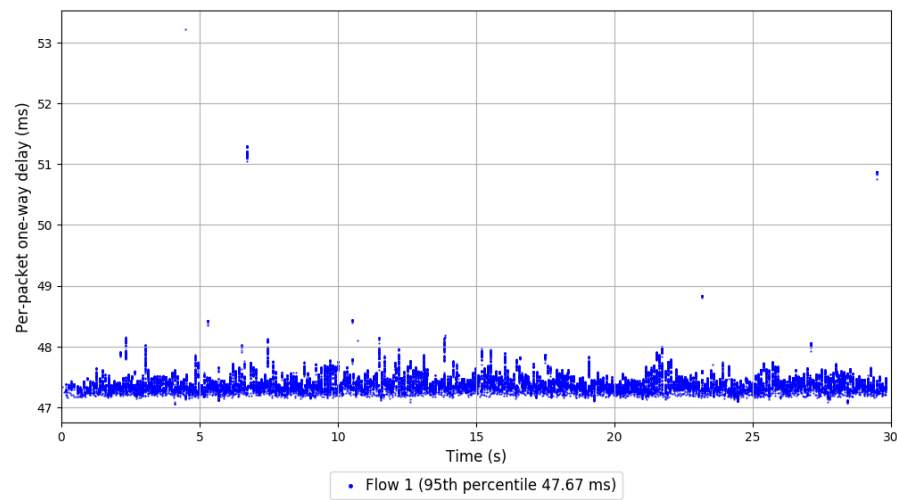
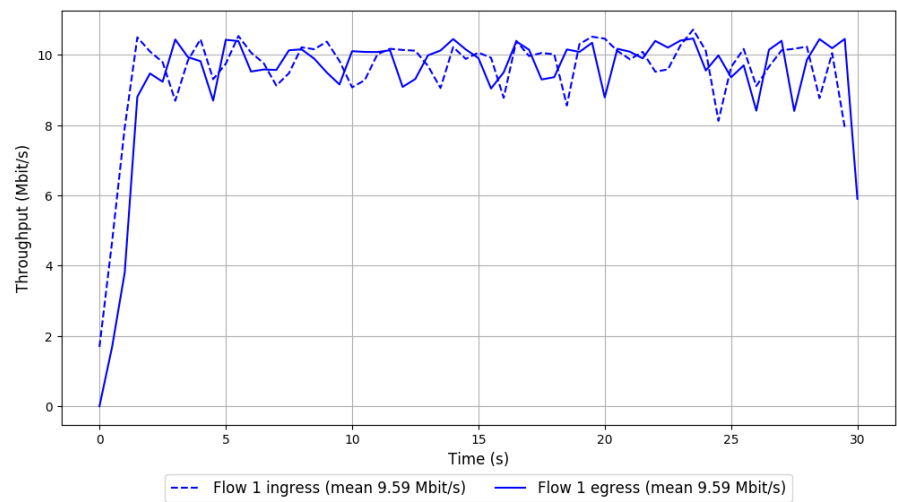


Run 4: Statistics of Sprout

Start at: 2019-07-18 17:38:38
End at: 2019-07-18 17:39:08
Local clock offset: -0.124 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2019-07-18 20:27:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.59 Mbit/s
95th percentile per-packet one-way delay: 47.670 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 9.59 Mbit/s
95th percentile per-packet one-way delay: 47.670 ms
Loss rate: 0.35%

Run 4: Report of Sprout — Data Link

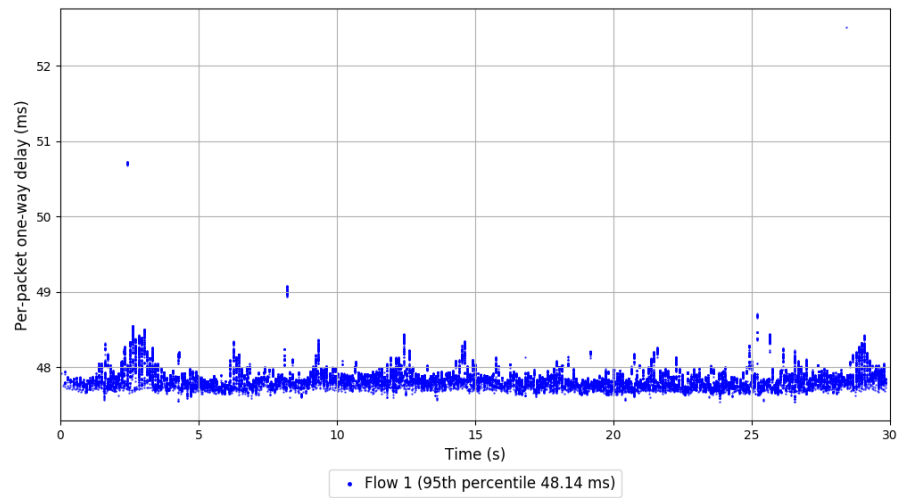
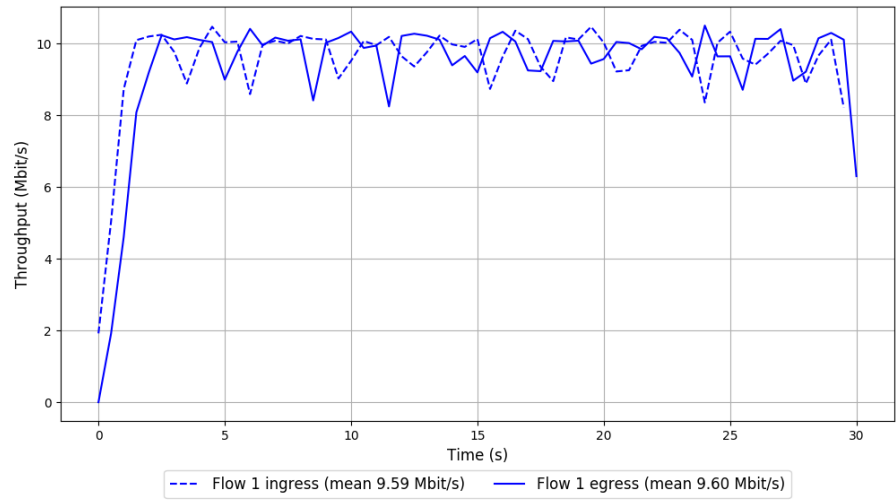


Run 5: Statistics of Sprout

Start at: 2019-07-18 18:13:35
End at: 2019-07-18 18:14:05
Local clock offset: 0.24 ms
Remote clock offset: -0.066 ms

Below is generated by plot.py at 2019-07-18 20:27:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.60 Mbit/s
95th percentile per-packet one-way delay: 48.136 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 9.60 Mbit/s
95th percentile per-packet one-way delay: 48.136 ms
Loss rate: 0.33%

Run 5: Report of Sprout — Data Link

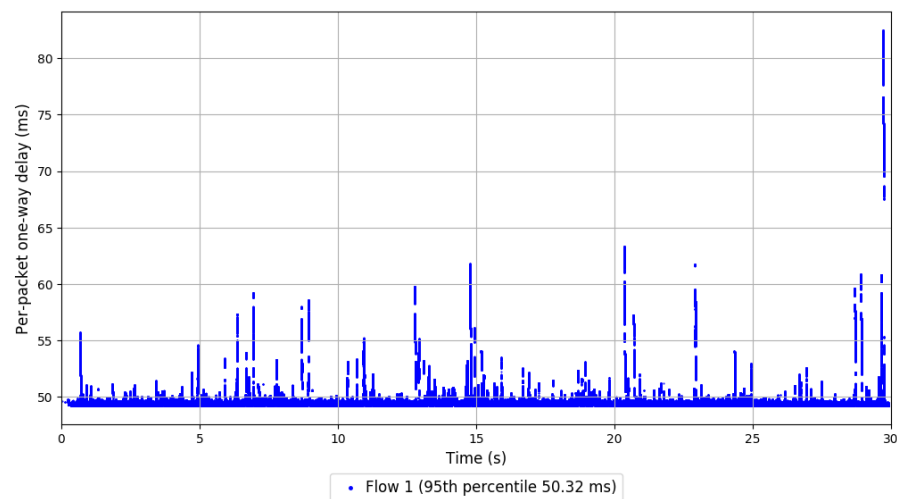
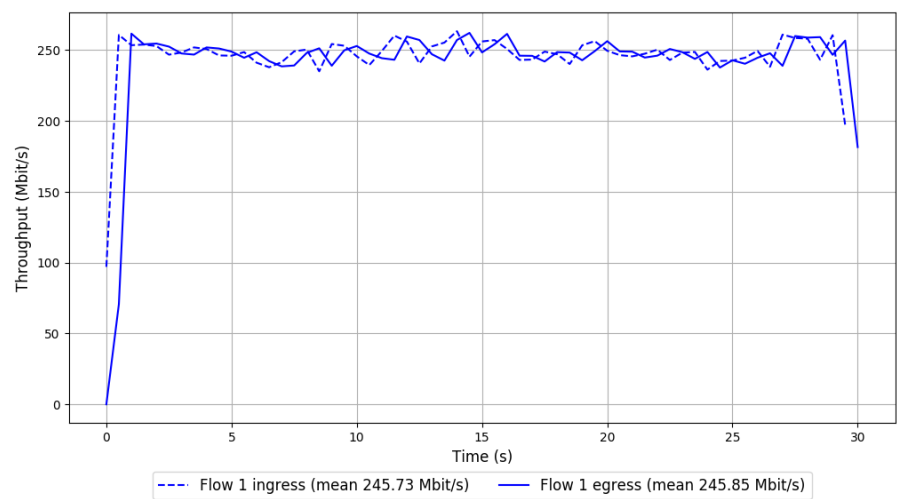


Run 1: Statistics of TaoVA-100x

Start at: 2019-07-18 15:49:31
End at: 2019-07-18 15:50:01
Local clock offset: -0.079 ms
Remote clock offset: -0.209 ms

Below is generated by plot.py at 2019-07-18 20:31:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 245.85 Mbit/s
95th percentile per-packet one-way delay: 50.320 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 245.85 Mbit/s
95th percentile per-packet one-way delay: 50.320 ms
Loss rate: 0.28%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-07-18 16:23:54

End at: 2019-07-18 16:24:24

Local clock offset: -0.017 ms

Remote clock offset: 0.042 ms

Below is generated by plot.py at 2019-07-18 20:31:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 254.13 Mbit/s

95th percentile per-packet one-way delay: 48.057 ms

Loss rate: 0.31%

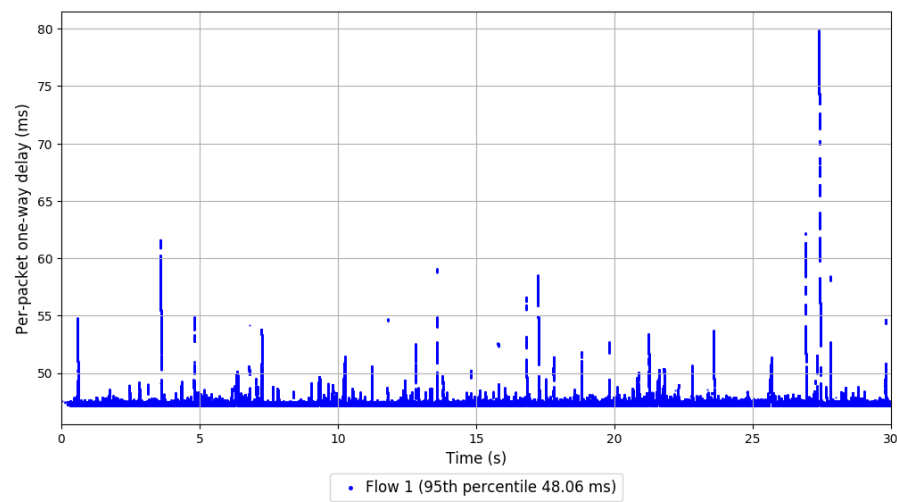
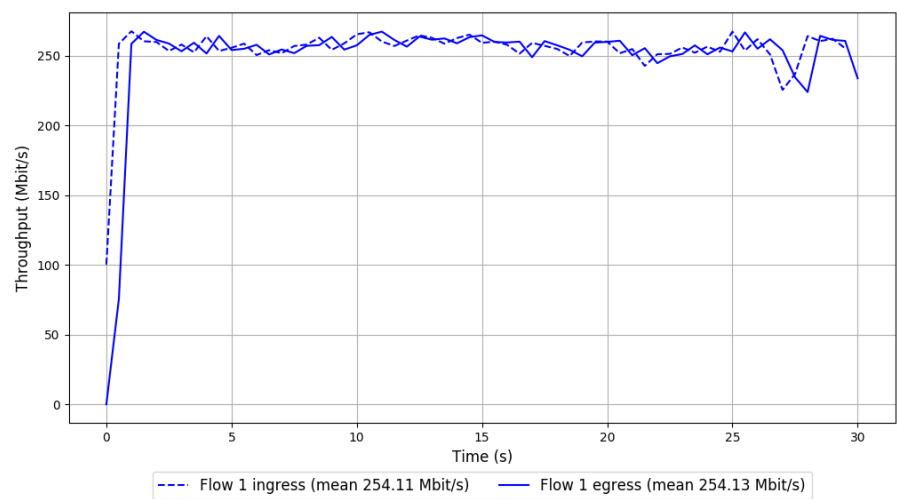
-- Flow 1:

Average throughput: 254.13 Mbit/s

95th percentile per-packet one-way delay: 48.057 ms

Loss rate: 0.31%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-07-18 16:58:34

End at: 2019-07-18 16:59:04

Local clock offset: -0.181 ms

Remote clock offset: 0.034 ms

Below is generated by plot.py at 2019-07-18 20:31:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 249.28 Mbit/s

95th percentile per-packet one-way delay: 48.212 ms

Loss rate: 0.35%

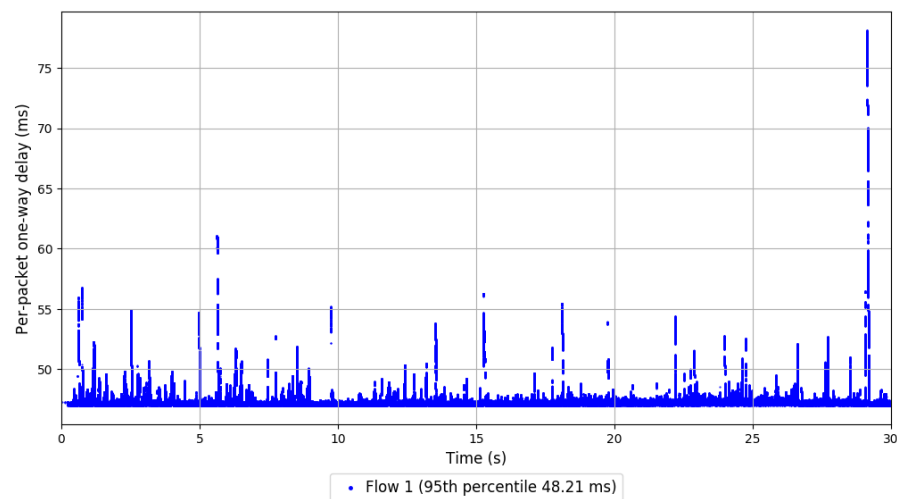
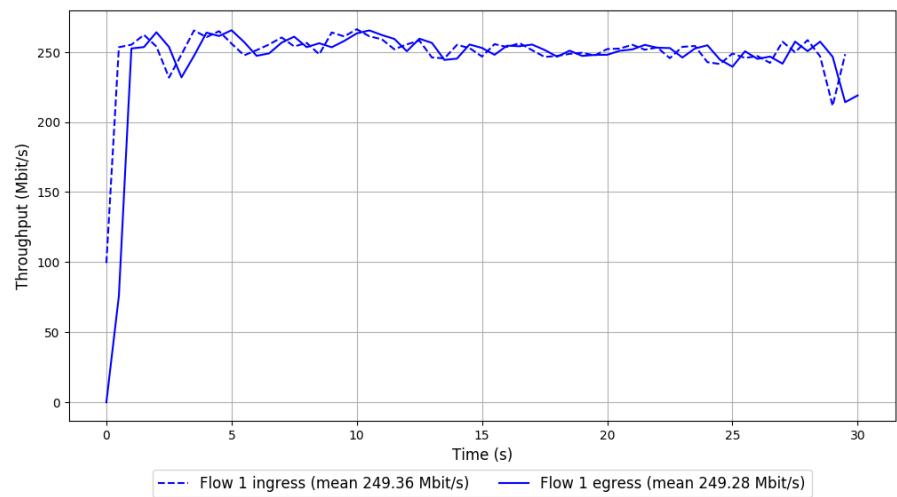
-- Flow 1:

Average throughput: 249.28 Mbit/s

95th percentile per-packet one-way delay: 48.212 ms

Loss rate: 0.35%

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

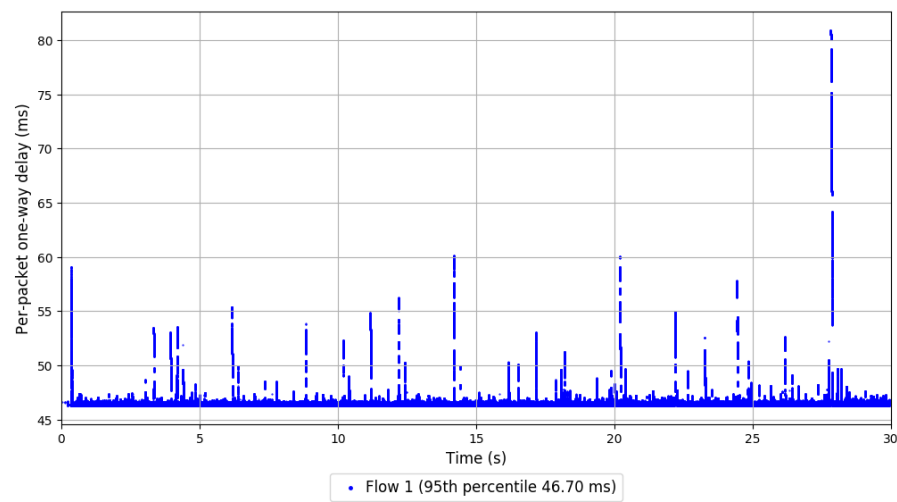
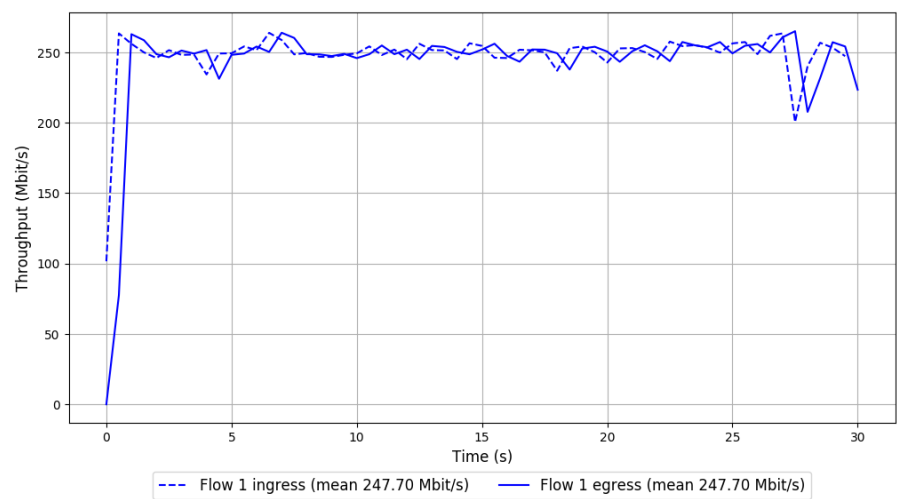


Run 4: Statistics of TaoVA-100x

Start at: 2019-07-18 17:33:06
End at: 2019-07-18 17:33:36
Local clock offset: -0.138 ms
Remote clock offset: -0.042 ms

Below is generated by plot.py at 2019-07-18 20:31:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 247.70 Mbit/s
95th percentile per-packet one-way delay: 46.703 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 247.70 Mbit/s
95th percentile per-packet one-way delay: 46.703 ms
Loss rate: 0.32%

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

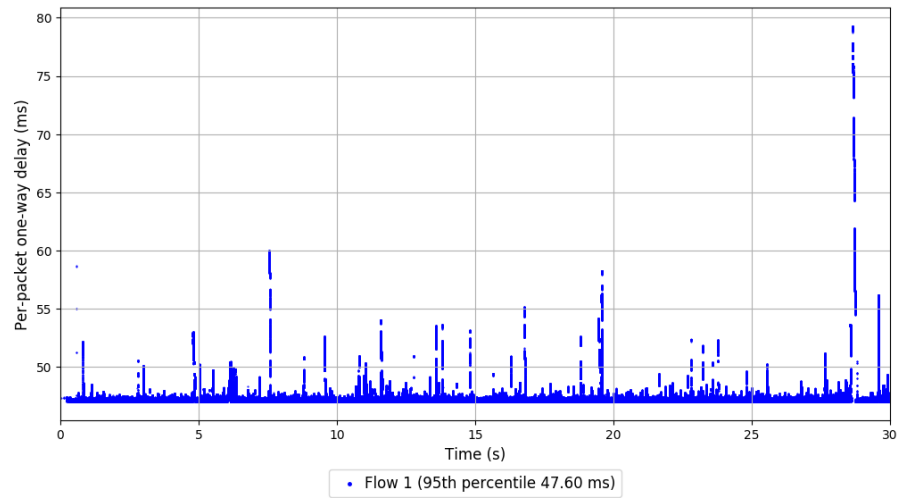
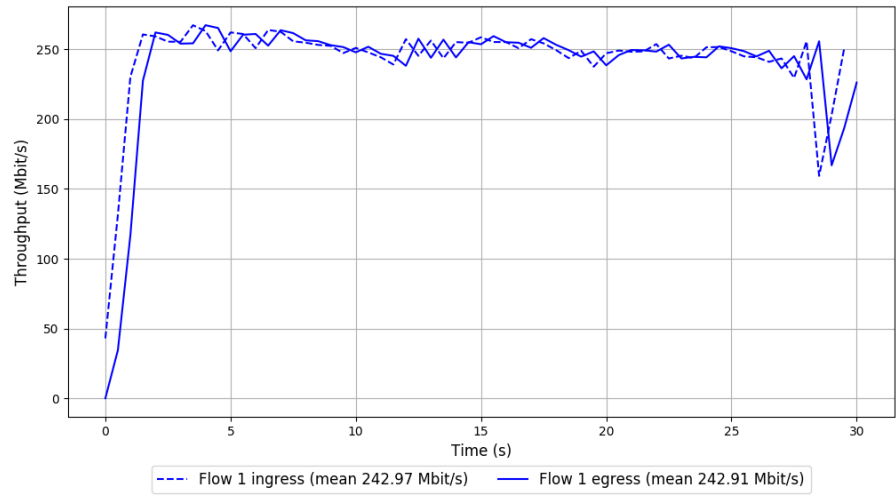


Run 5: Statistics of TaoVA-100x

Start at: 2019-07-18 18:07:53
End at: 2019-07-18 18:08:23
Local clock offset: -0.122 ms
Remote clock offset: -0.067 ms

Below is generated by plot.py at 2019-07-18 20:33:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 242.91 Mbit/s
95th percentile per-packet one-way delay: 47.603 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 242.91 Mbit/s
95th percentile per-packet one-way delay: 47.603 ms
Loss rate: 0.34%

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

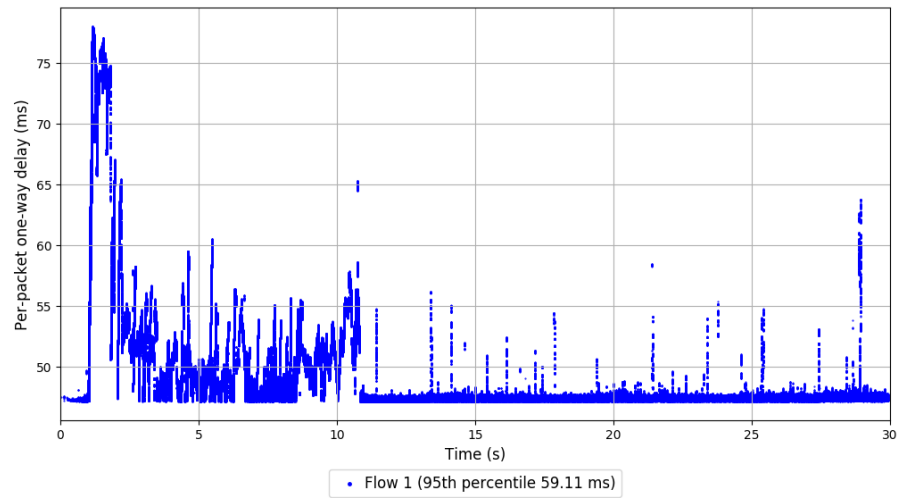
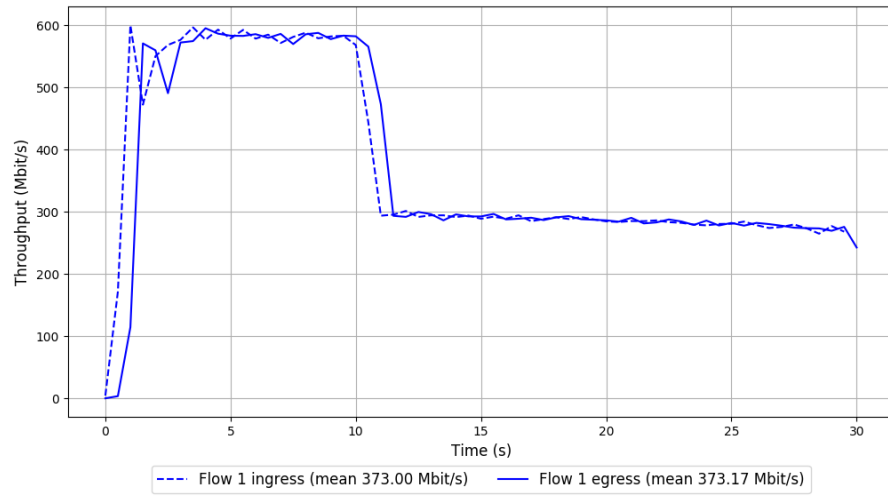


Run 1: Statistics of TCP Vegas

Start at: 2019-07-18 15:53:39
End at: 2019-07-18 15:54:09
Local clock offset: -0.072 ms
Remote clock offset: -0.159 ms

Below is generated by plot.py at 2019-07-18 20:33:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 373.17 Mbit/s
95th percentile per-packet one-way delay: 59.114 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 373.17 Mbit/s
95th percentile per-packet one-way delay: 59.114 ms
Loss rate: 0.27%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-07-18 16:28:04

End at: 2019-07-18 16:28:34

Local clock offset: -0.049 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2019-07-18 20:33:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.95 Mbit/s

95th percentile per-packet one-way delay: 47.547 ms

Loss rate: 0.27%

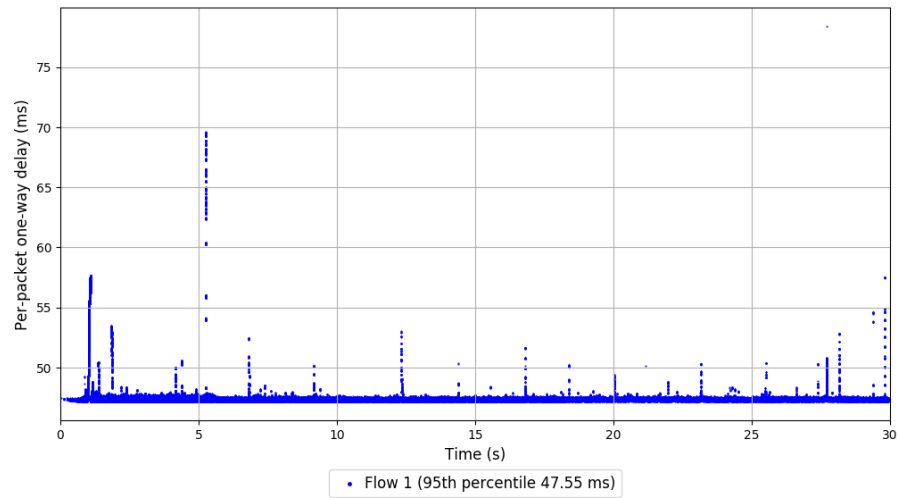
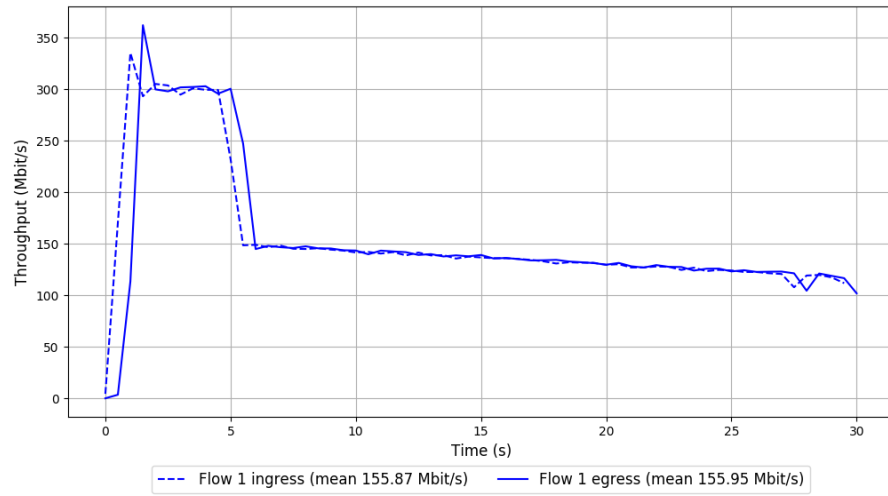
-- Flow 1:

Average throughput: 155.95 Mbit/s

95th percentile per-packet one-way delay: 47.547 ms

Loss rate: 0.27%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-07-18 17:02:42

End at: 2019-07-18 17:03:12

Local clock offset: -0.183 ms

Remote clock offset: 0.041 ms

Below is generated by plot.py at 2019-07-18 20:33:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 319.68 Mbit/s

95th percentile per-packet one-way delay: 54.123 ms

Loss rate: 0.27%

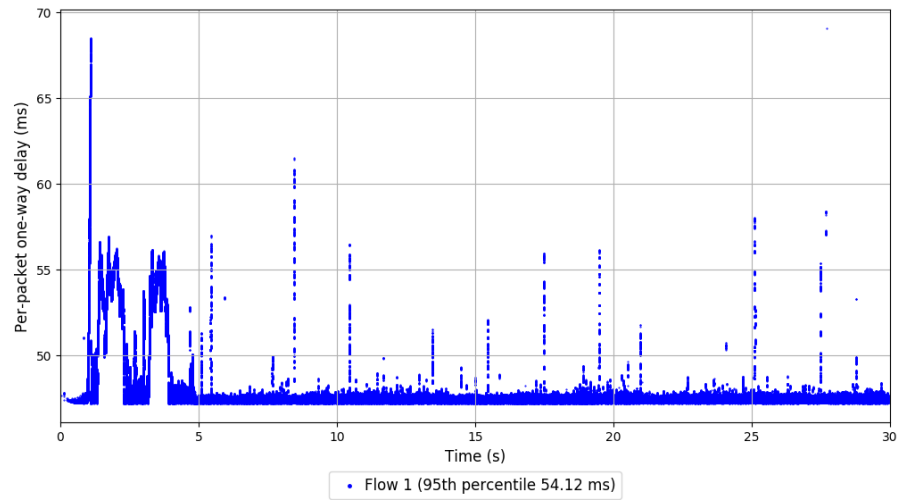
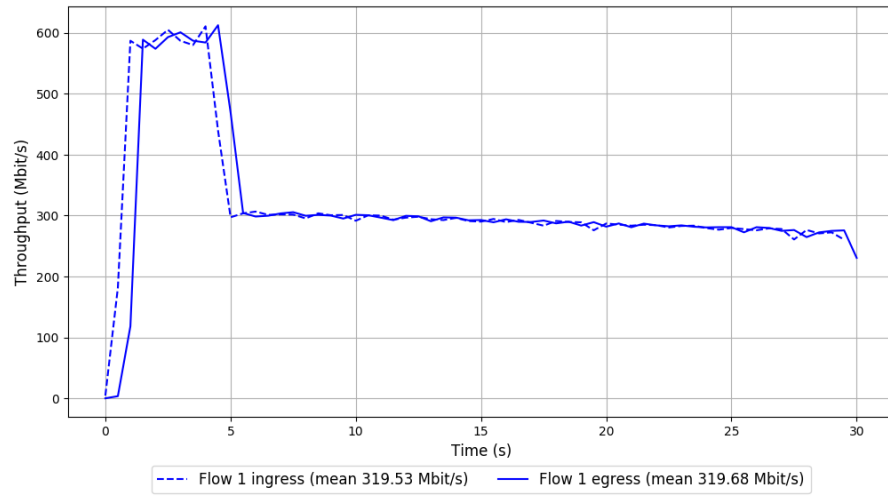
-- Flow 1:

Average throughput: 319.68 Mbit/s

95th percentile per-packet one-way delay: 54.123 ms

Loss rate: 0.27%

Run 3: Report of TCP Vegas — Data Link

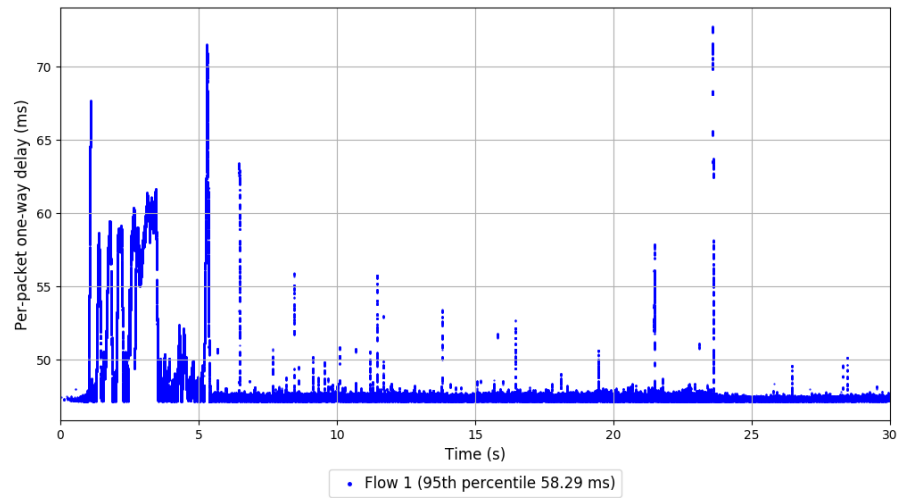
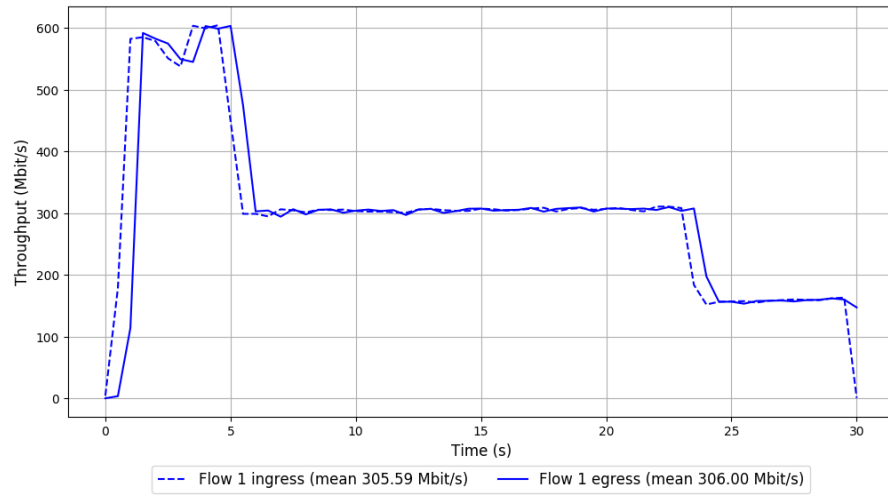


Run 4: Statistics of TCP Vegas

Start at: 2019-07-18 17:37:16
End at: 2019-07-18 17:37:46
Local clock offset: -0.126 ms
Remote clock offset: -0.049 ms

Below is generated by plot.py at 2019-07-18 20:34:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 306.00 Mbit/s
95th percentile per-packet one-way delay: 58.292 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 306.00 Mbit/s
95th percentile per-packet one-way delay: 58.292 ms
Loss rate: 0.18%

Run 4: Report of TCP Vegas — Data Link

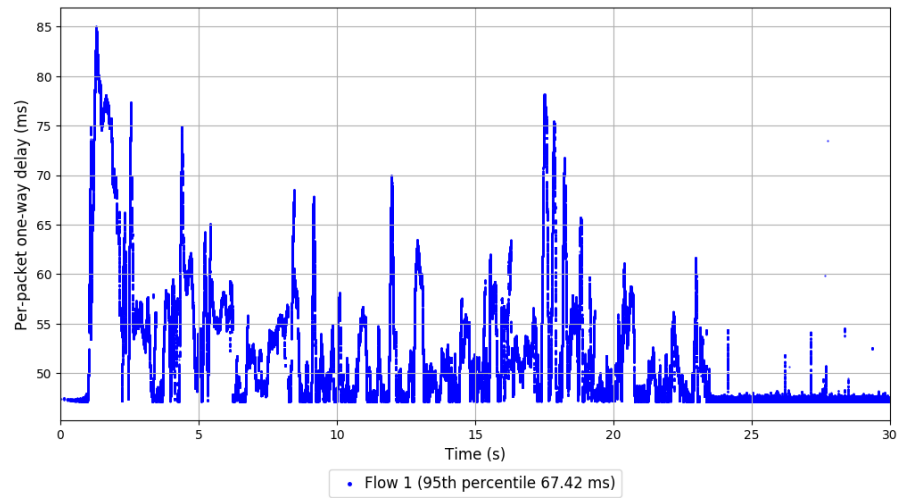
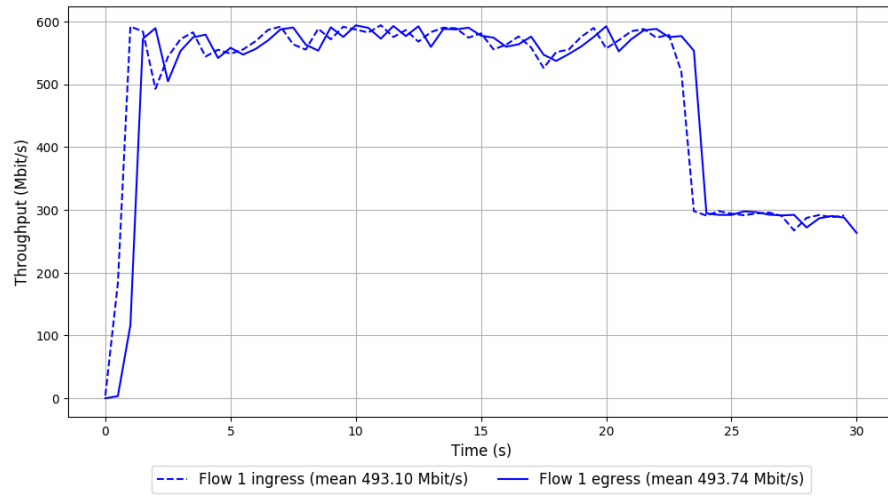


Run 5: Statistics of TCP Vegas

Start at: 2019-07-18 18:12:04
End at: 2019-07-18 18:12:34
Local clock offset: -0.184 ms
Remote clock offset: -0.091 ms

Below is generated by plot.py at 2019-07-18 20:39:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 493.74 Mbit/s
95th percentile per-packet one-way delay: 67.418 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 493.74 Mbit/s
95th percentile per-packet one-way delay: 67.418 ms
Loss rate: 0.19%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-07-18 16:06:33

End at: 2019-07-18 16:07:03

Local clock offset: -0.014 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2019-07-18 20:39:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.27 Mbit/s

95th percentile per-packet one-way delay: 105.306 ms

Loss rate: 0.44%

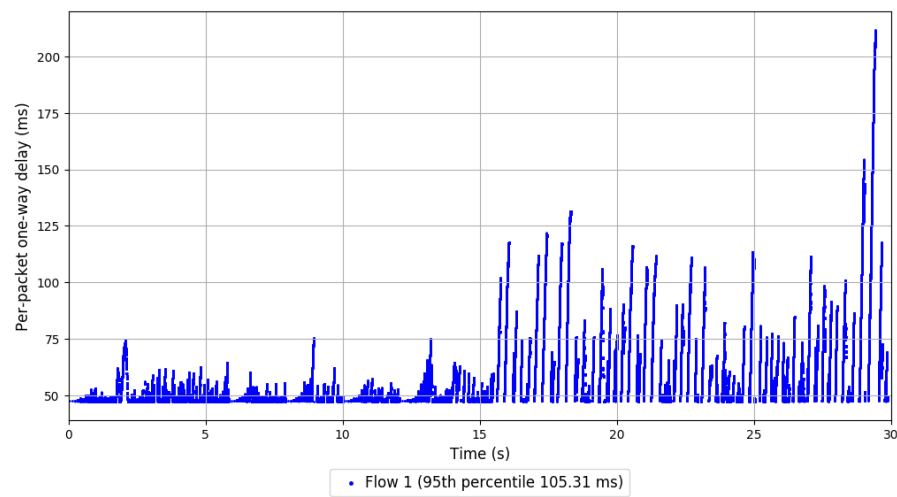
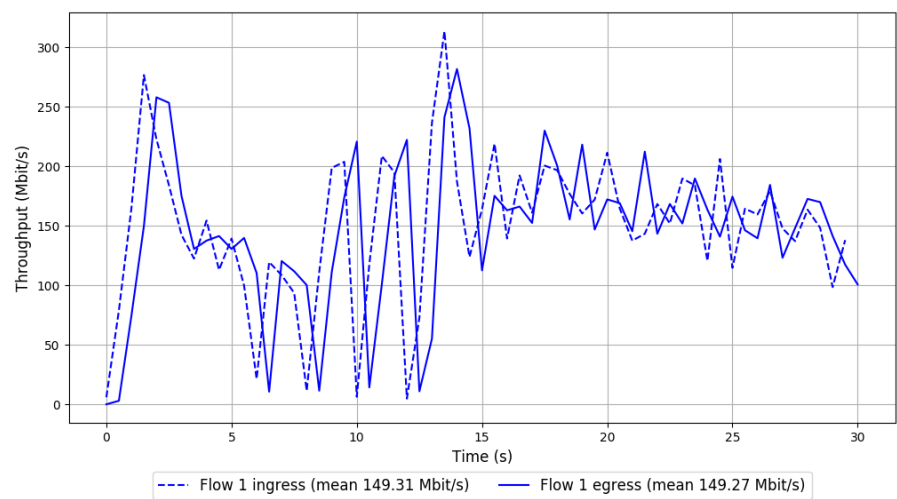
-- Flow 1:

Average throughput: 149.27 Mbit/s

95th percentile per-packet one-way delay: 105.306 ms

Loss rate: 0.44%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-07-18 16:41:21

End at: 2019-07-18 16:41:51

Local clock offset: -0.152 ms

Remote clock offset: 0.04 ms

Below is generated by plot.py at 2019-07-18 20:39:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.02 Mbit/s

95th percentile per-packet one-way delay: 176.889 ms

Loss rate: 0.36%

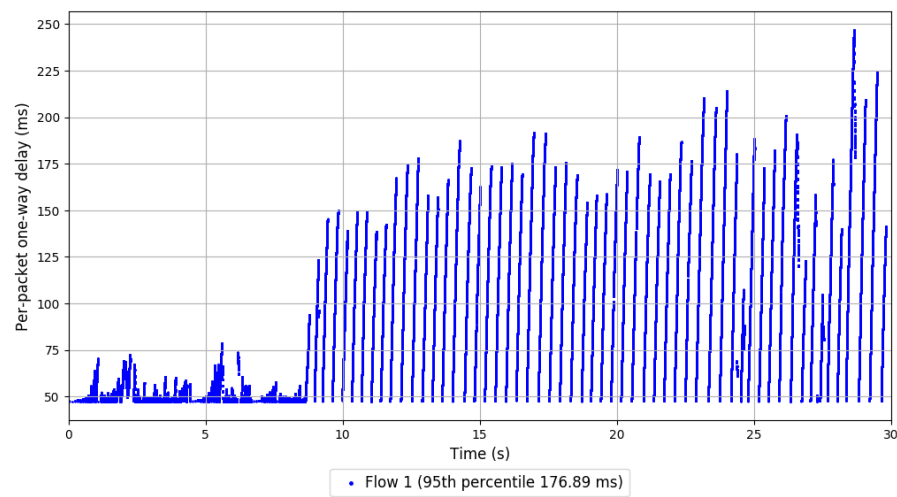
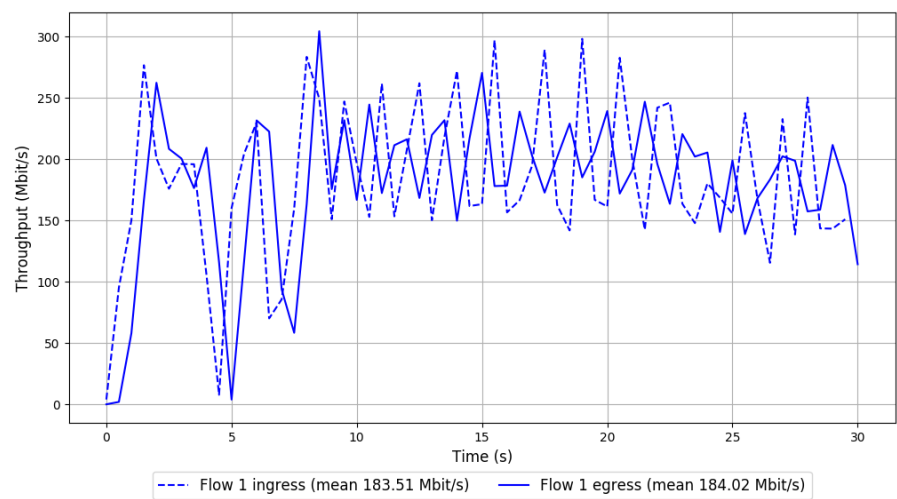
-- Flow 1:

Average throughput: 184.02 Mbit/s

95th percentile per-packet one-way delay: 176.889 ms

Loss rate: 0.36%

Run 2: Report of Verus — Data Link

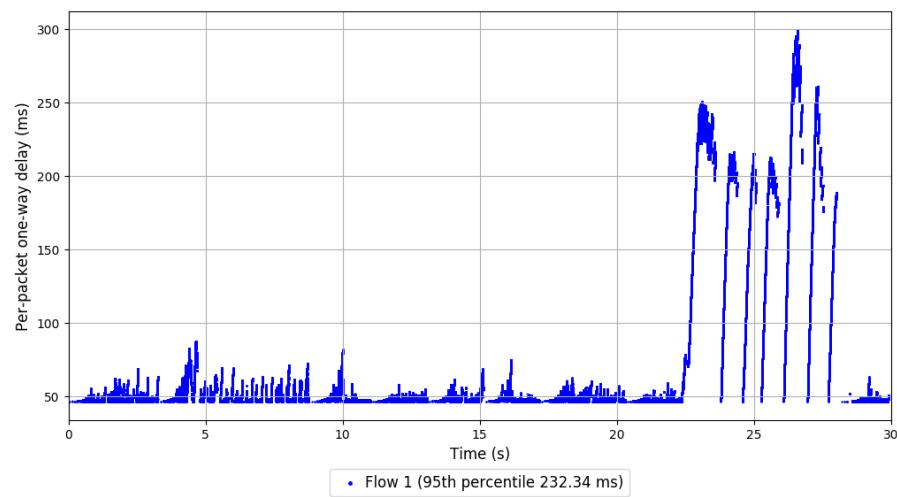
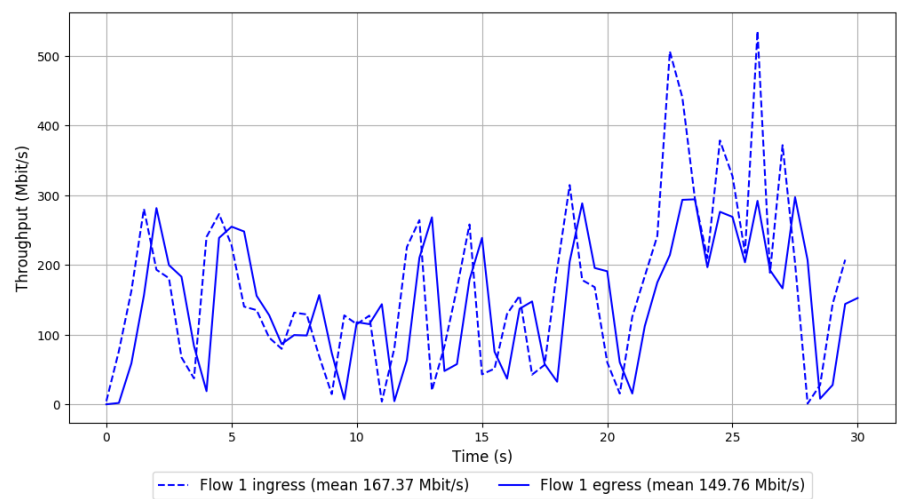


Run 3: Statistics of Verus

Start at: 2019-07-18 17:15:48
End at: 2019-07-18 17:16:18
Local clock offset: -0.158 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2019-07-18 20:39:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 149.76 Mbit/s
95th percentile per-packet one-way delay: 232.337 ms
Loss rate: 10.80%
-- Flow 1:
Average throughput: 149.76 Mbit/s
95th percentile per-packet one-way delay: 232.337 ms
Loss rate: 10.80%

Run 3: Report of Verus — Data Link

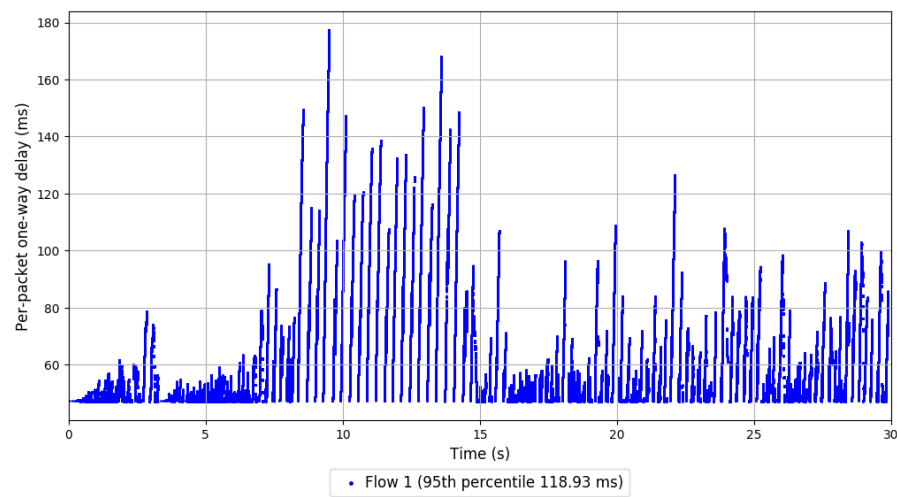
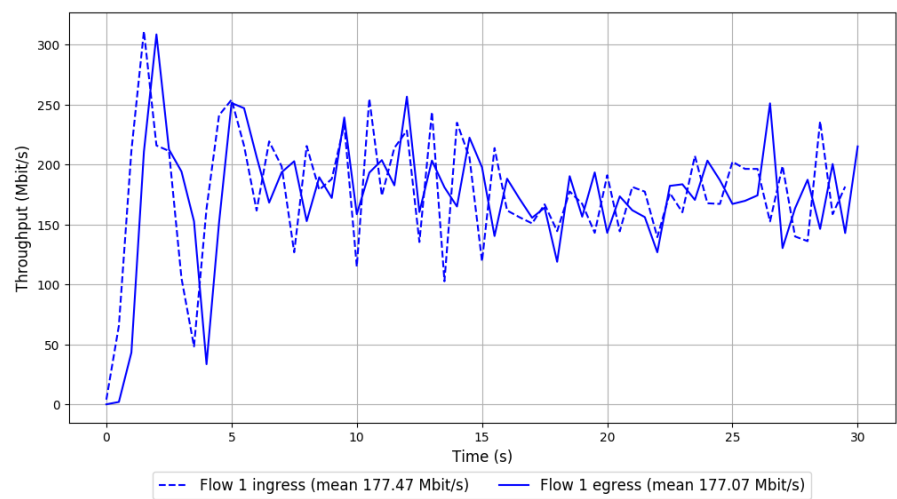


Run 4: Statistics of Verus

Start at: 2019-07-18 17:50:43
End at: 2019-07-18 17:51:13
Local clock offset: -0.147 ms
Remote clock offset: -0.058 ms

Below is generated by plot.py at 2019-07-18 20:39:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 177.07 Mbit/s
95th percentile per-packet one-way delay: 118.930 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 177.07 Mbit/s
95th percentile per-packet one-way delay: 118.930 ms
Loss rate: 0.17%

Run 4: Report of Verus — Data Link

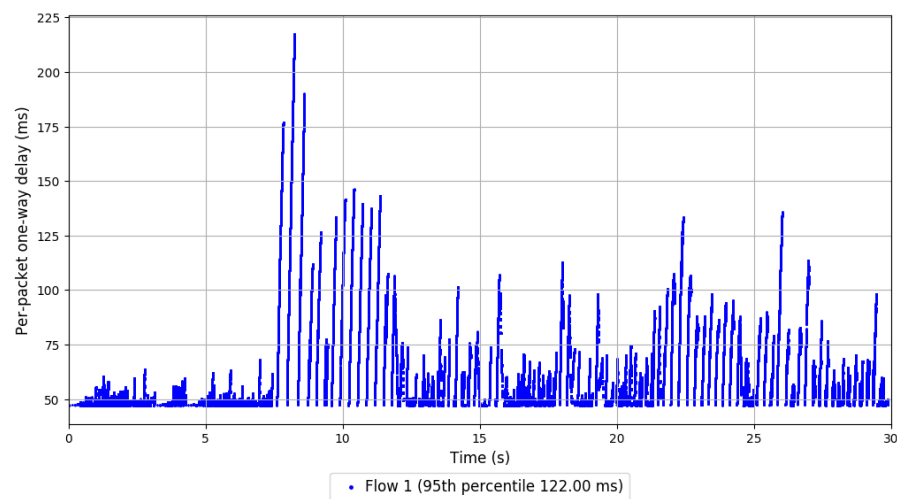
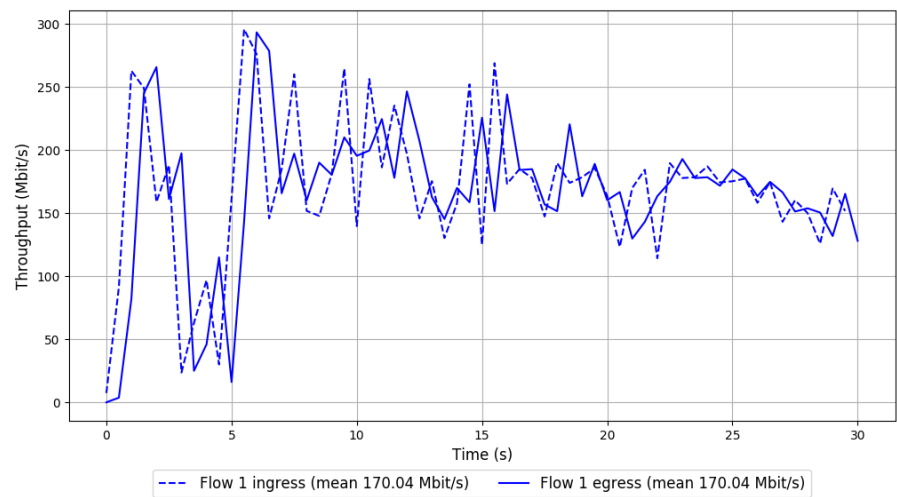


Run 5: Statistics of Verus

Start at: 2019-07-18 18:25:39
End at: 2019-07-18 18:26:09
Local clock offset: -0.072 ms
Remote clock offset: -0.027 ms

Below is generated by plot.py at 2019-07-18 20:39:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 170.04 Mbit/s
95th percentile per-packet one-way delay: 122.005 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 170.04 Mbit/s
95th percentile per-packet one-way delay: 122.005 ms
Loss rate: 0.27%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-07-18 16:07:54

End at: 2019-07-18 16:08:24

Local clock offset: 0.297 ms

Remote clock offset: -0.009 ms

Below is generated by plot.py at 2019-07-18 20:39:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 355.64 Mbit/s

95th percentile per-packet one-way delay: 54.023 ms

Loss rate: 0.34%

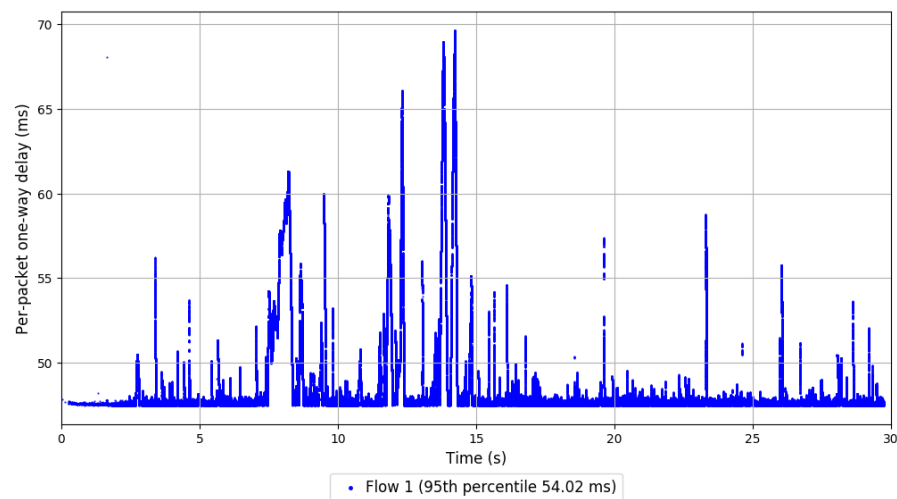
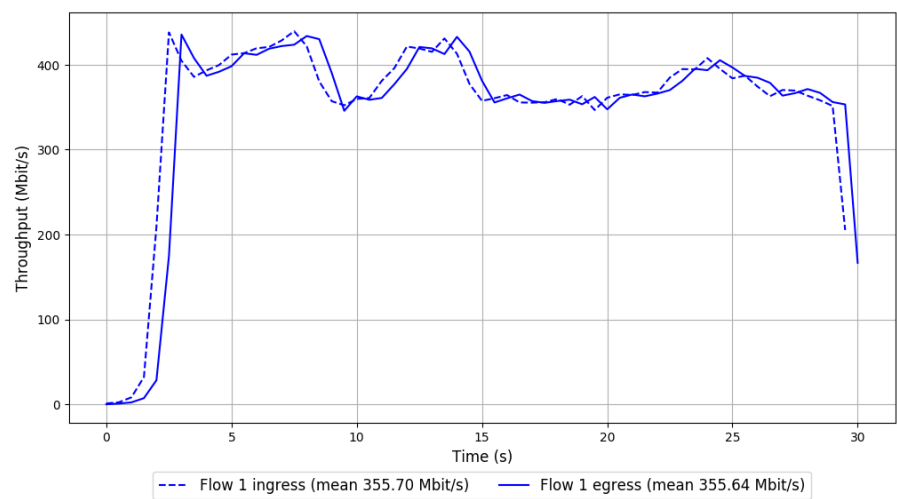
-- Flow 1:

Average throughput: 355.64 Mbit/s

95th percentile per-packet one-way delay: 54.023 ms

Loss rate: 0.34%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-07-18 16:42:45

End at: 2019-07-18 16:43:15

Local clock offset: -0.143 ms

Remote clock offset: 0.062 ms

Below is generated by plot.py at 2019-07-18 20:40:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 358.10 Mbit/s

95th percentile per-packet one-way delay: 54.401 ms

Loss rate: 0.33%

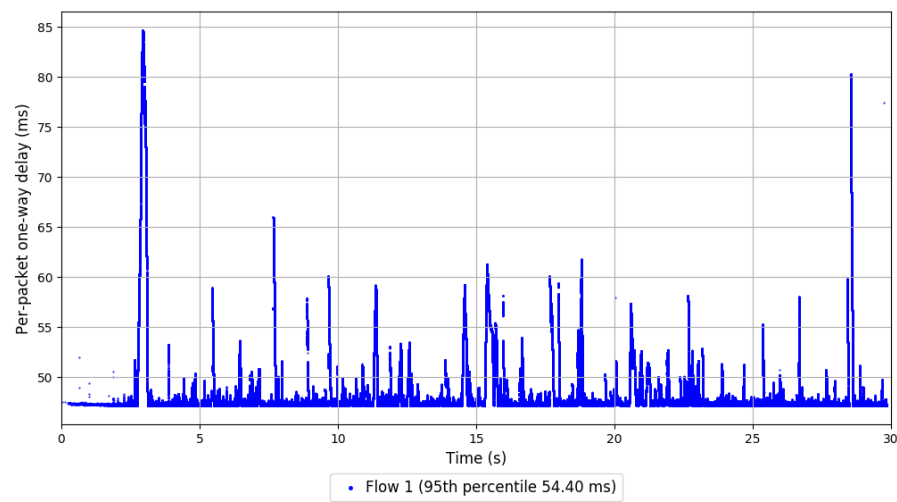
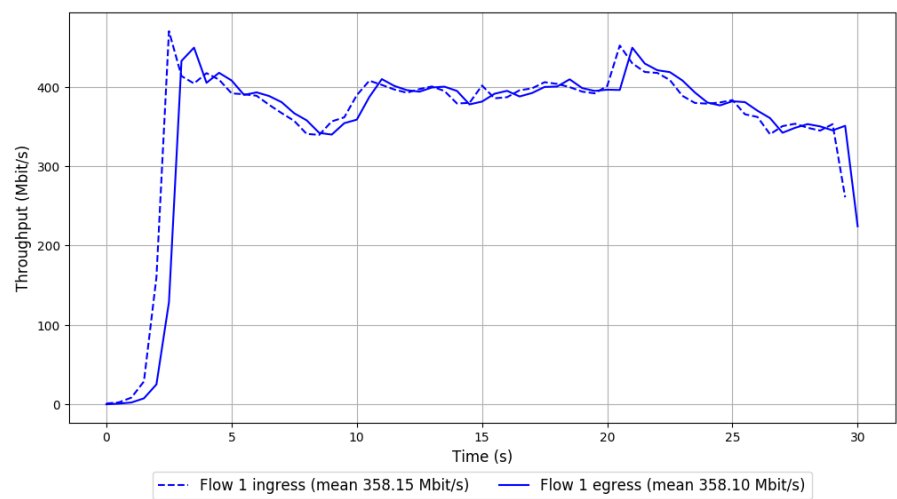
-- Flow 1:

Average throughput: 358.10 Mbit/s

95th percentile per-packet one-way delay: 54.401 ms

Loss rate: 0.33%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-07-18 17:17:10

End at: 2019-07-18 17:17:40

Local clock offset: -0.137 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2019-07-18 20:40:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 368.94 Mbit/s

95th percentile per-packet one-way delay: 187.506 ms

Loss rate: 1.15%

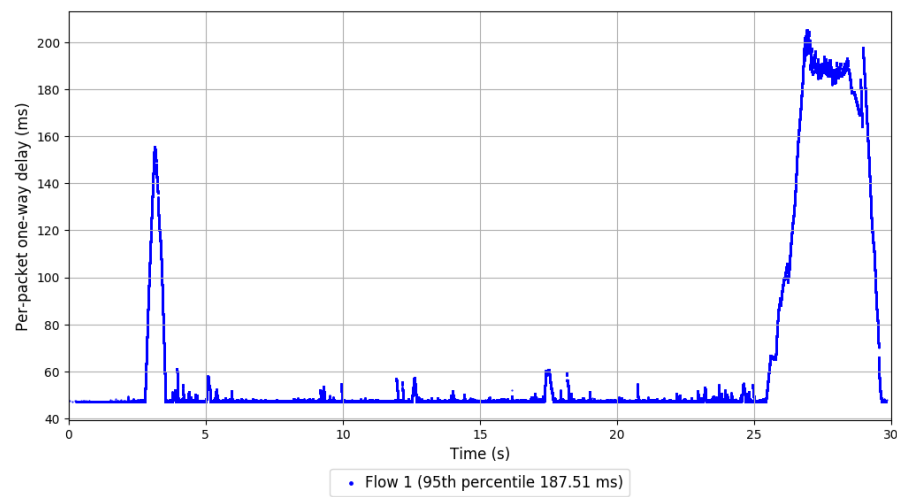
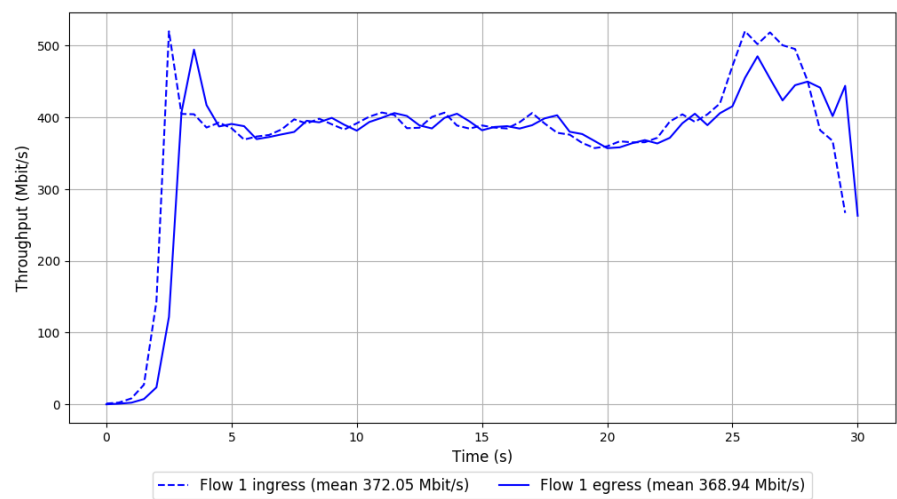
-- Flow 1:

Average throughput: 368.94 Mbit/s

95th percentile per-packet one-way delay: 187.506 ms

Loss rate: 1.15%

Run 3: Report of PCC-Vivace — Data Link

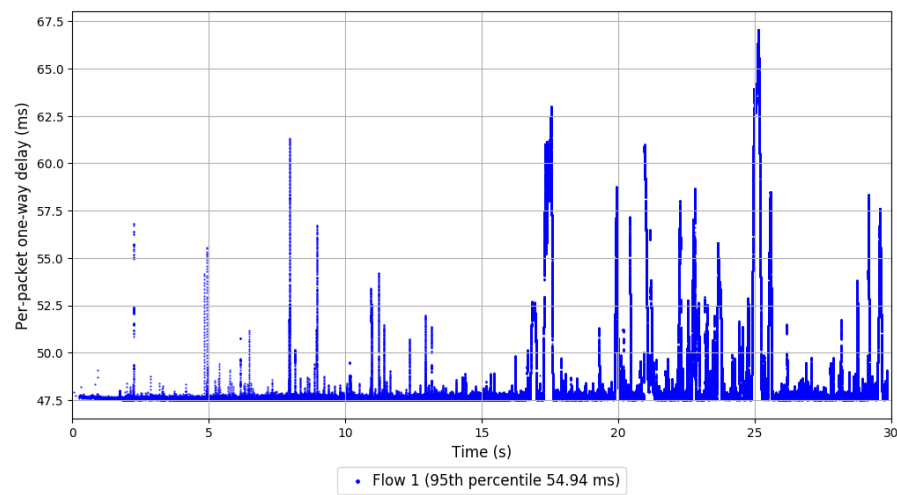
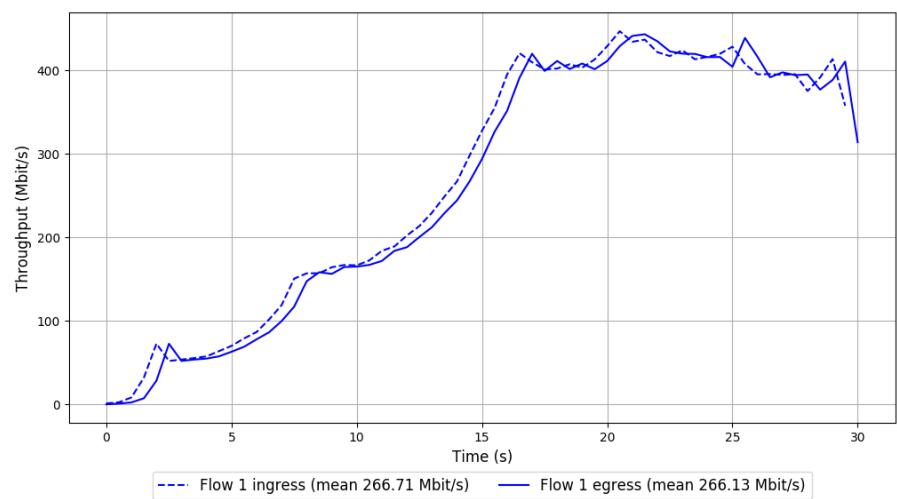


Run 4: Statistics of PCC-Vivace

Start at: 2019-07-18 17:52:07
End at: 2019-07-18 17:52:37
Local clock offset: 0.242 ms
Remote clock offset: -0.067 ms

Below is generated by plot.py at 2019-07-18 20:40:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 266.13 Mbit/s
95th percentile per-packet one-way delay: 54.939 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 266.13 Mbit/s
95th percentile per-packet one-way delay: 54.939 ms
Loss rate: 0.54%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-07-18 18:27:02

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

Local clock offset: 0.315 ms

Remote clock offset: -0.013 ms

Below is generated by plot.py at 2019-07-18 20:40:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 303.43 Mbit/s

95th percentile per-packet one-way delay: 49.990 ms

Loss rate: 0.40%

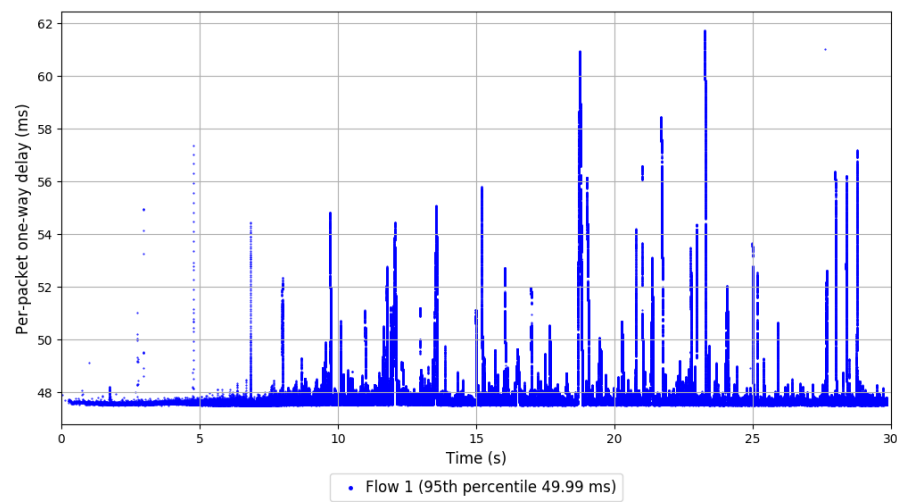
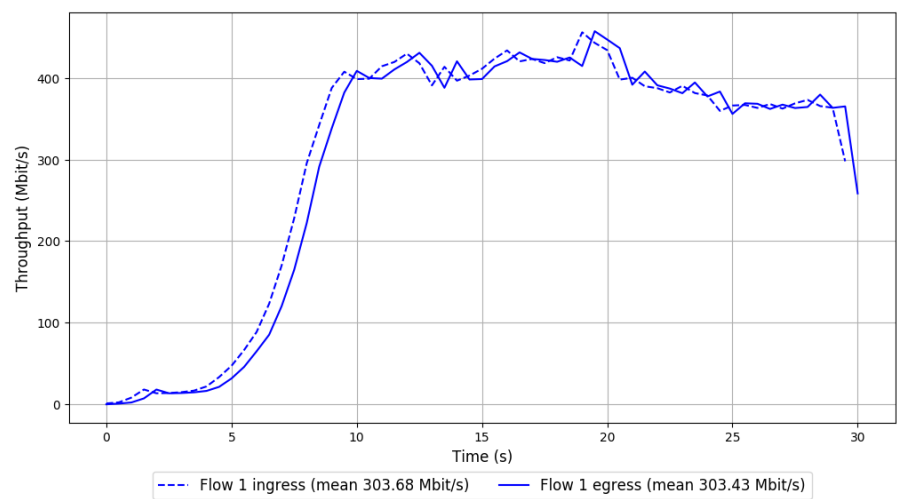
-- Flow 1:

Average throughput: 303.43 Mbit/s

95th percentile per-packet one-way delay: 49.990 ms

Loss rate: 0.40%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

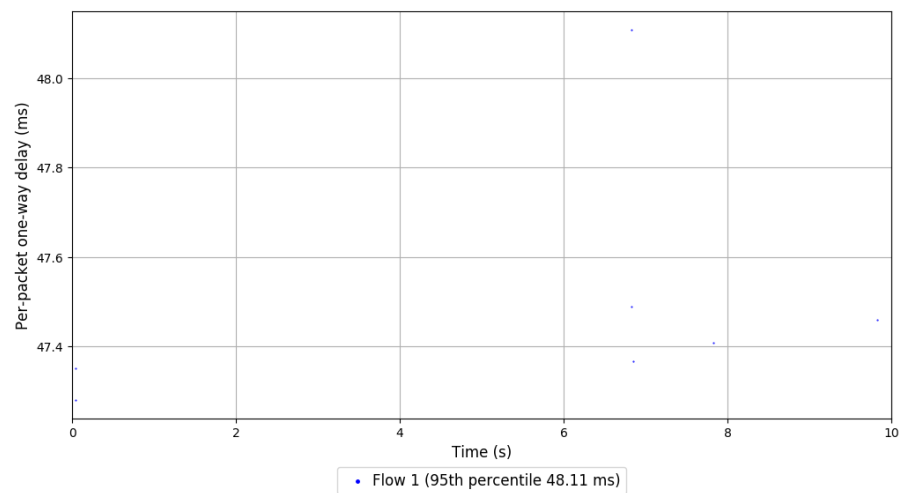
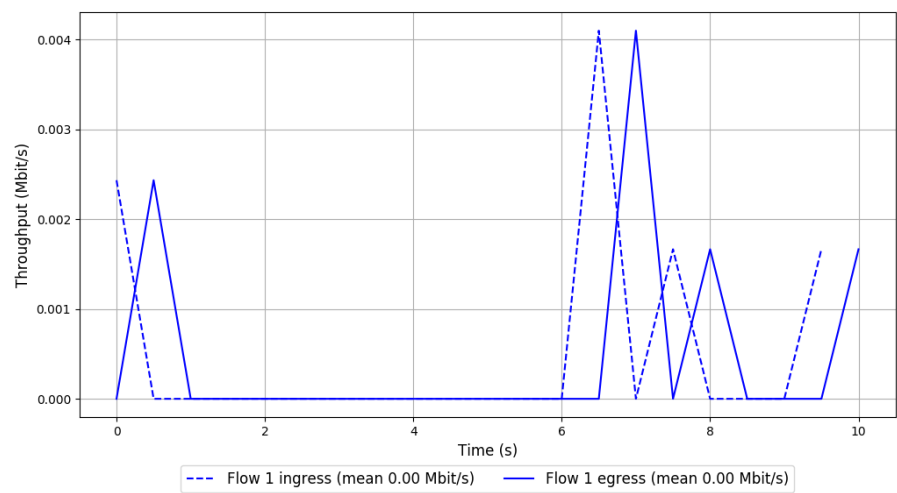
Start at: 2019-07-18 16:11:06

End at: 2019-07-18 16:11:36

Local clock offset: -0.021 ms

Remote clock offset: 0.039 ms

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-07-18 16:45:57

End at: 2019-07-18 16:46:27

Local clock offset: -0.189 ms

Remote clock offset: 0.062 ms

Below is generated by plot.py at 2019-07-18 20:40:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 47.474 ms

Loss rate: 0.00%

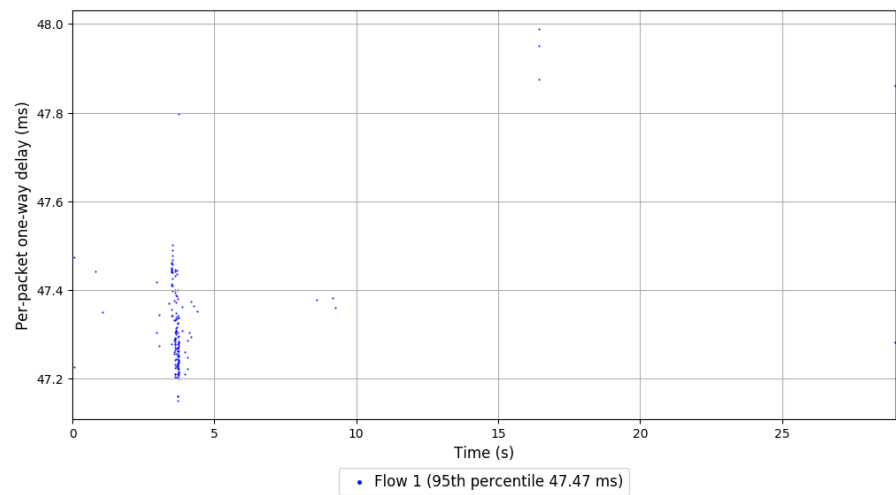
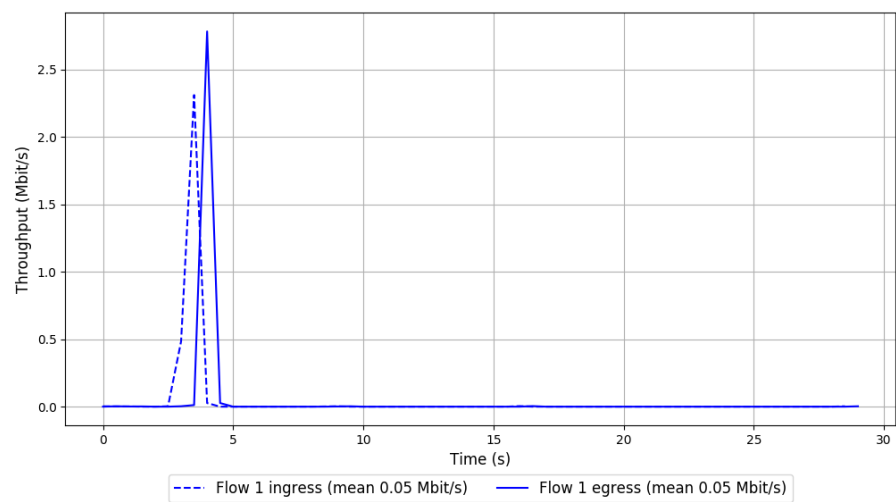
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 47.474 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

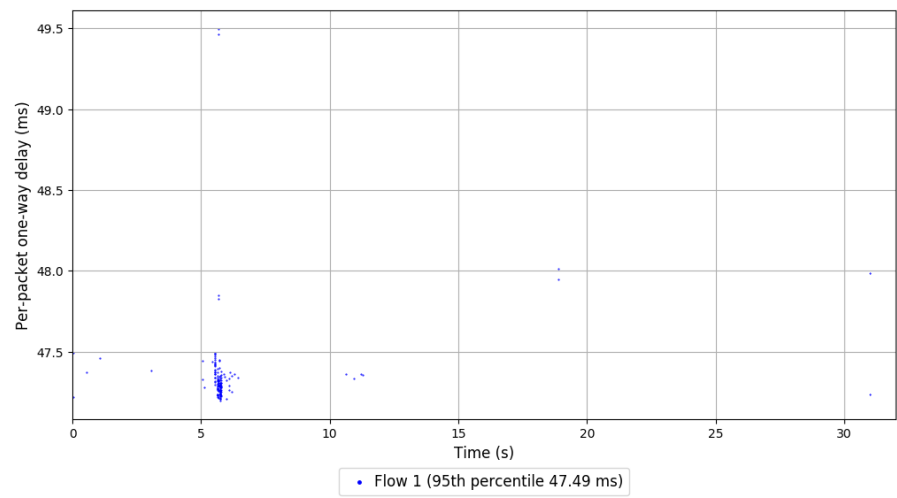
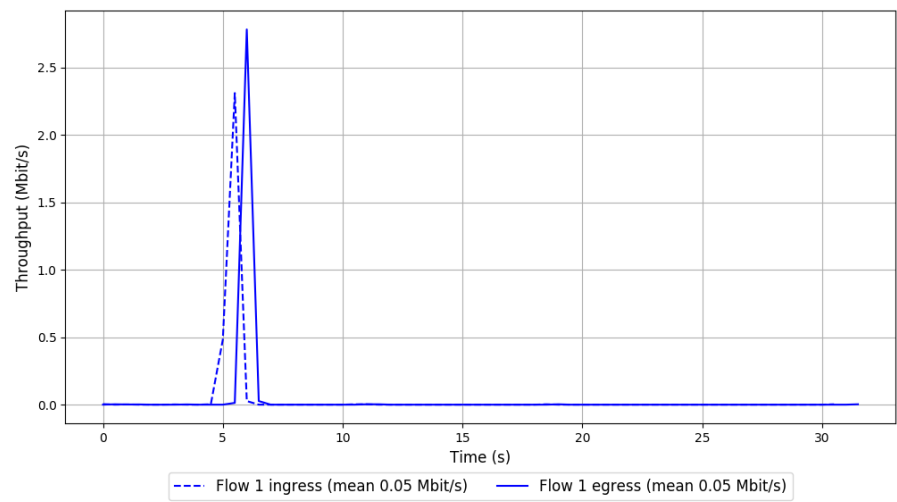


Run 3: Statistics of WebRTC media

Start at: 2019-07-18 17:20:24
End at: 2019-07-18 17:20:54
Local clock offset: -0.104 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2019-07-18 20:40:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.490 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.490 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

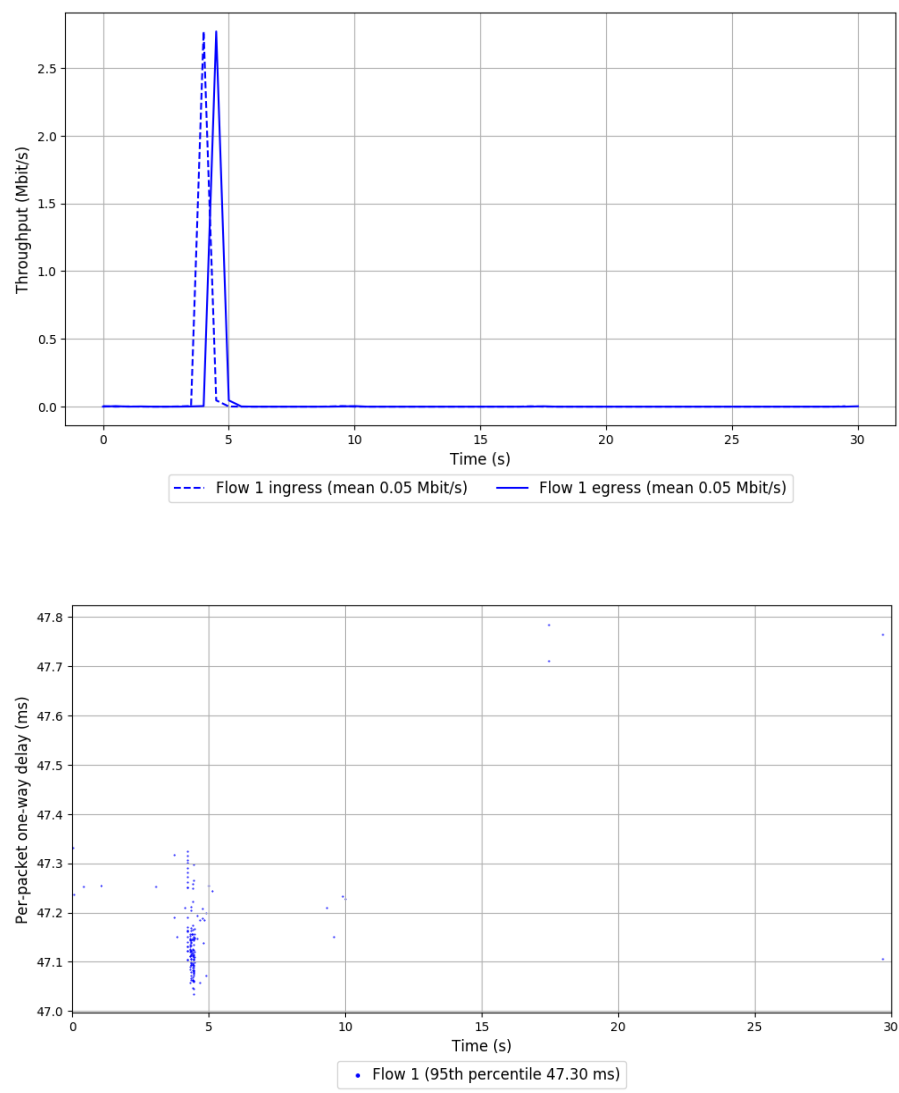


Run 4: Statistics of WebRTC media

Start at: 2019-07-18 17:55:11
End at: 2019-07-18 17:55:41
Local clock offset: -0.102 ms
Remote clock offset: -0.042 ms

Below is generated by plot.py at 2019-07-18 20:40:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.301 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.301 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-07-18 18:30:12
End at: 2019-07-18 18:30:42
Local clock offset: -0.392 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2019-07-18 20:40:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 46.972 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 46.972 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

