

Pantheon Report

Generated at 2019-06-28 19:21:38 (UTC).

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

Repeated the test of 22 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:

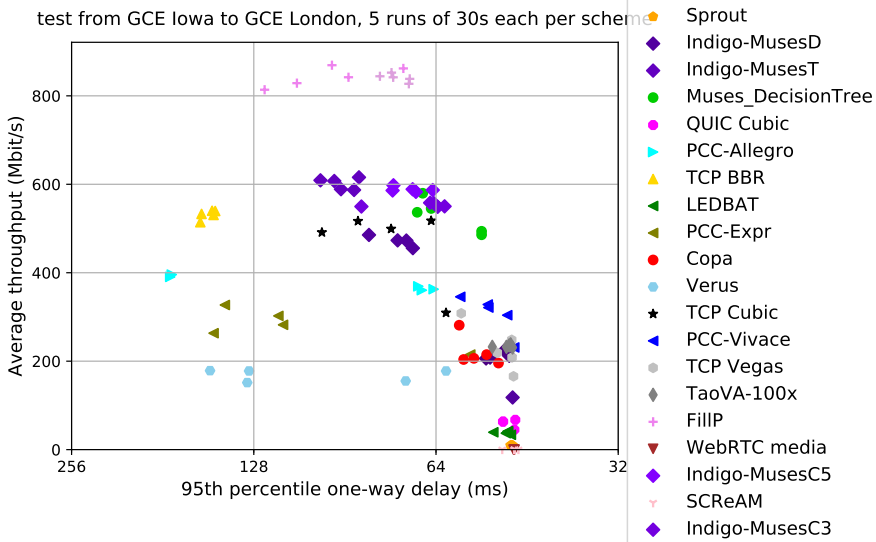
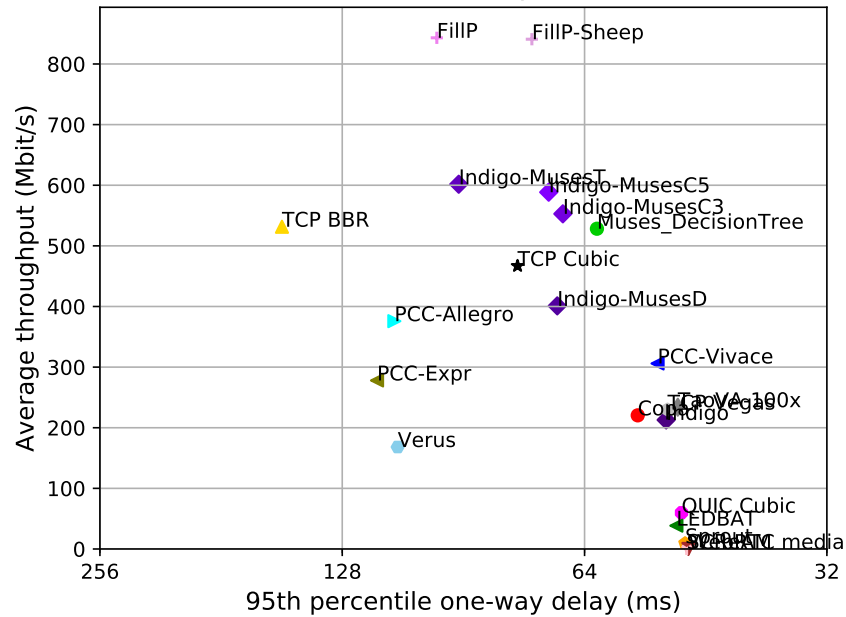
```
Linux 4.15.0-1032-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ c3953d08f32ec7ebbdede2d2f0cbdeed262571ef
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd9c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 11c9498ecb1596b02ccd896791a02d03172af7ed
M helpers/__init__.pyc
M helpers/context.pyc
M helpers/utils.pyc
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-quic @ 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)



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	531.55	152.08	0.90
Copa	5	220.43	54.97	0.35
TCP Cubic	5	466.86	77.52	0.37
FillP	5	843.16	97.66	0.71
FillP-Sheep	5	840.86	74.41	0.48
Indigo	4	212.87	50.68	0.43
Indigo-MusesC3	5	552.82	68.10	0.44
Indigo-MusesC5	5	588.49	70.92	0.45
Indigo-MusesD	5	401.00	69.20	0.45
Indigo-MusesT	5	601.64	91.73	0.49
LEDBAT	5	38.49	49.22	0.49
Muses_DecisionTree	5	528.25	61.78	0.38
PCC-Allegro	5	375.80	110.27	1.52
PCC-Expr	5	277.99	115.88	0.84
QUIC Cubic	4	59.80	48.50	0.54
SCReAM	5	0.22	47.79	0.26
Sprout	5	9.49	48.01	0.30
TaoVA-100x	5	233.89	49.02	0.34
TCP Vegas	5	229.95	50.48	0.29
Verus	5	168.23	109.23	0.45
PCC-Vivace	5	305.99	51.94	0.45
WebRTC media	3	0.05	47.55	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-06-28 14:48:13

End at: 2019-06-28 14:48:43

Local clock offset: -0.063 ms

Remote clock offset: -0.094 ms

Below is generated by plot.py at 2019-06-28 17:45:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 530.70 Mbit/s

95th percentile per-packet one-way delay: 149.178 ms

Loss rate: 0.65%

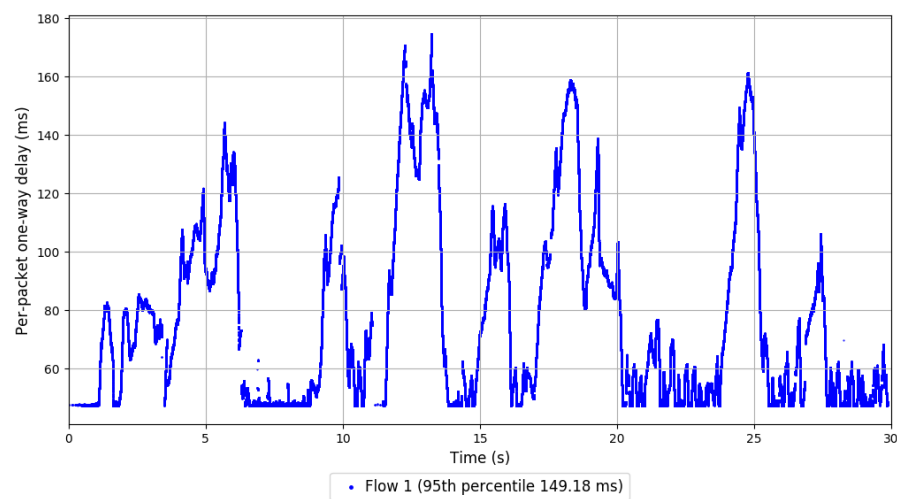
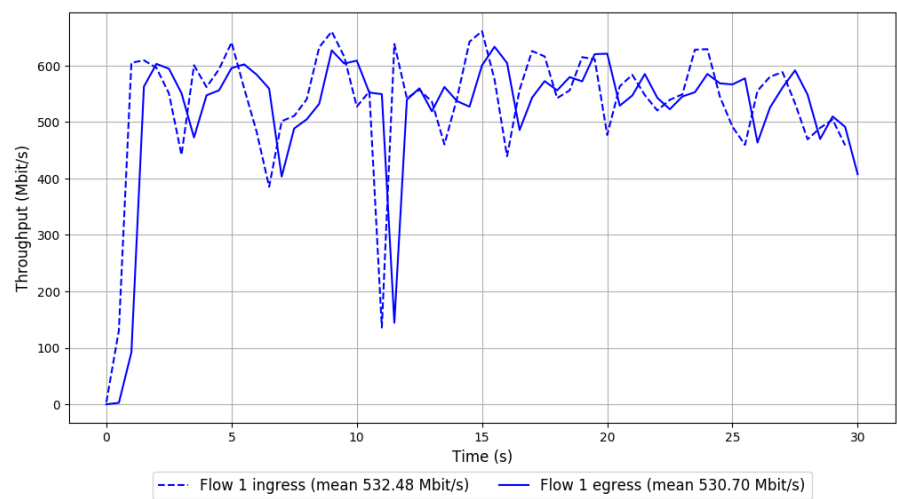
-- Flow 1:

Average throughput: 530.70 Mbit/s

95th percentile per-packet one-way delay: 149.178 ms

Loss rate: 0.65%

Run 1: Report of TCP BBR — Data Link

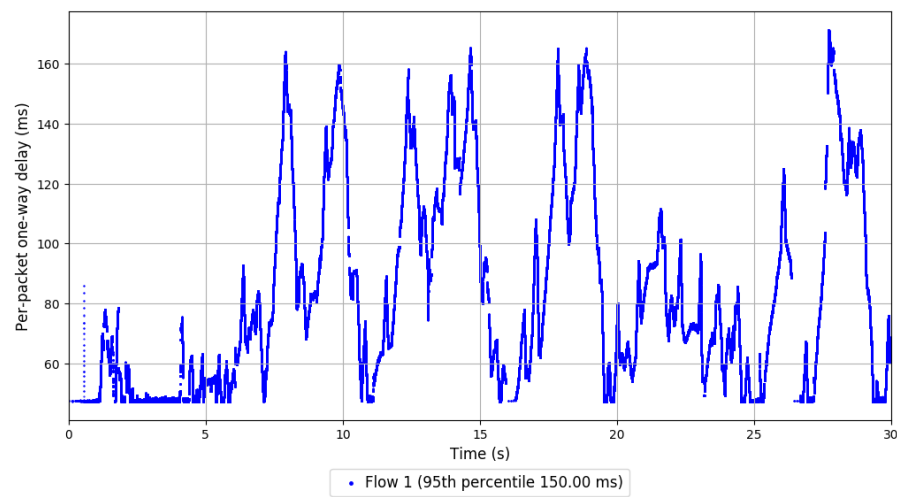
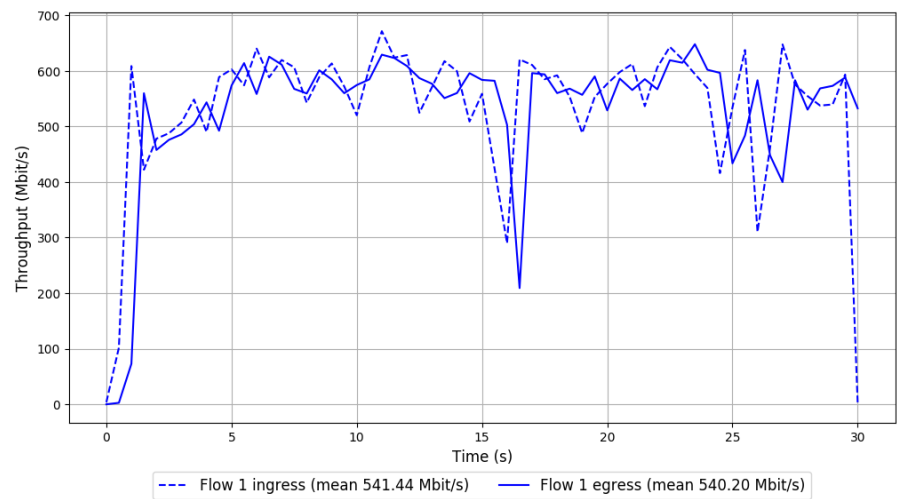


Run 2: Statistics of TCP BBR

Start at: 2019-06-28 15:19:23
End at: 2019-06-28 15:19:53
Local clock offset: -0.016 ms
Remote clock offset: -0.137 ms

Below is generated by plot.py at 2019-06-28 17:45:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 540.20 Mbit/s
95th percentile per-packet one-way delay: 150.001 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 540.20 Mbit/s
95th percentile per-packet one-way delay: 150.001 ms
Loss rate: 0.55%

Run 2: Report of TCP BBR — Data Link

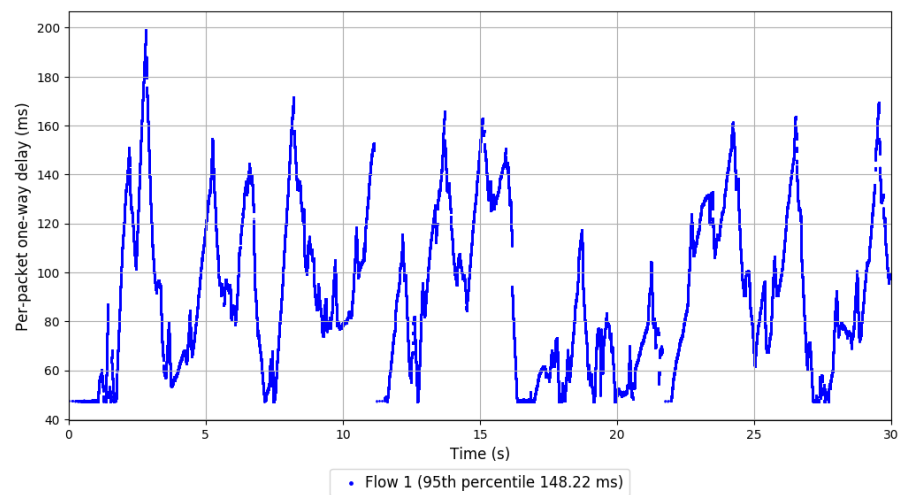
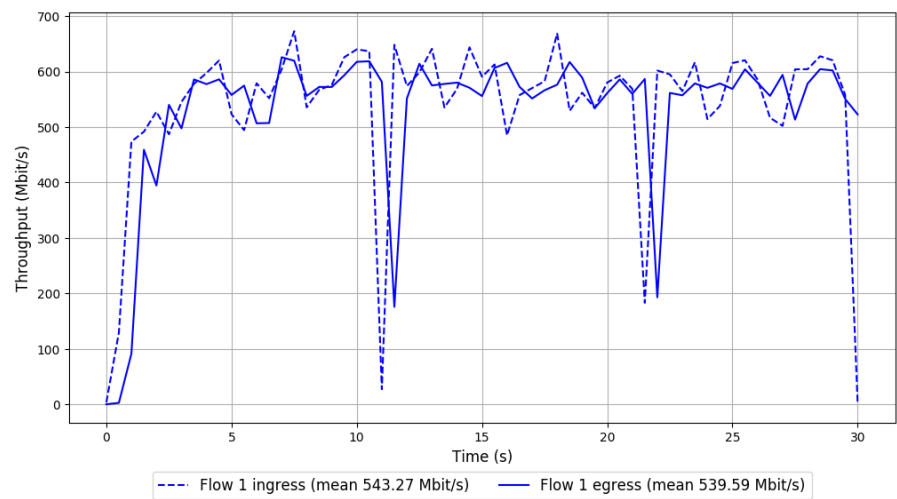


Run 3: Statistics of TCP BBR

Start at: 2019-06-28 15:50:55
End at: 2019-06-28 15:51:25
Local clock offset: -0.006 ms
Remote clock offset: -0.082 ms

Below is generated by plot.py at 2019-06-28 17:45:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 539.59 Mbit/s
95th percentile per-packet one-way delay: 148.222 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 539.59 Mbit/s
95th percentile per-packet one-way delay: 148.222 ms
Loss rate: 1.00%

Run 3: Report of TCP BBR — Data Link

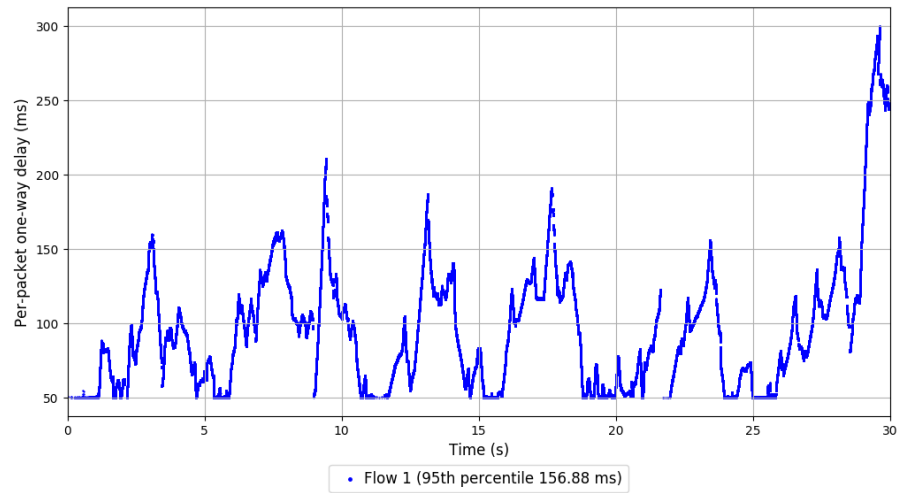
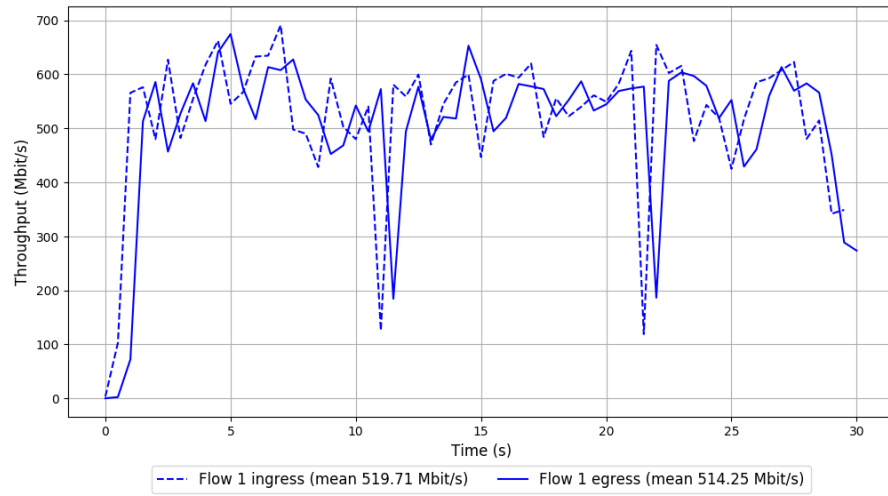


Run 4: Statistics of TCP BBR

Start at: 2019-06-28 16:22:38
End at: 2019-06-28 16:23:08
Local clock offset: 0.088 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2019-06-28 17:45:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 514.25 Mbit/s
95th percentile per-packet one-way delay: 156.875 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 514.25 Mbit/s
95th percentile per-packet one-way delay: 156.875 ms
Loss rate: 1.38%

Run 4: Report of TCP BBR — Data Link

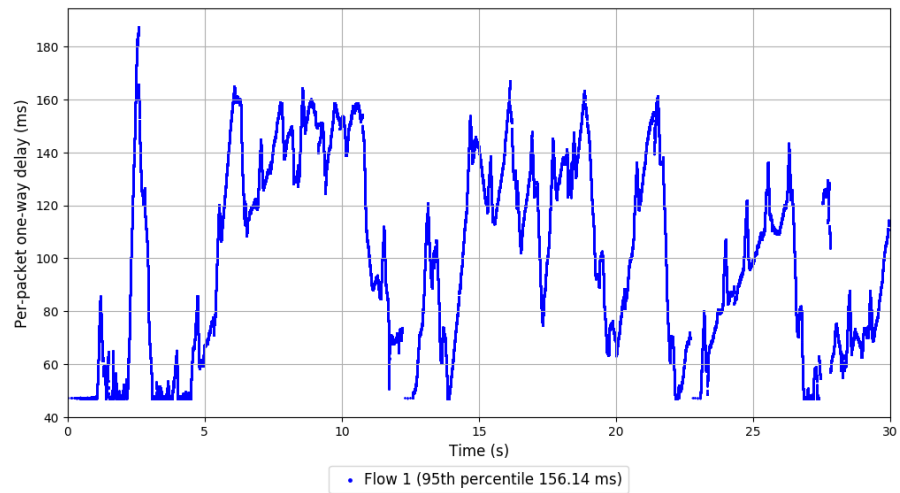
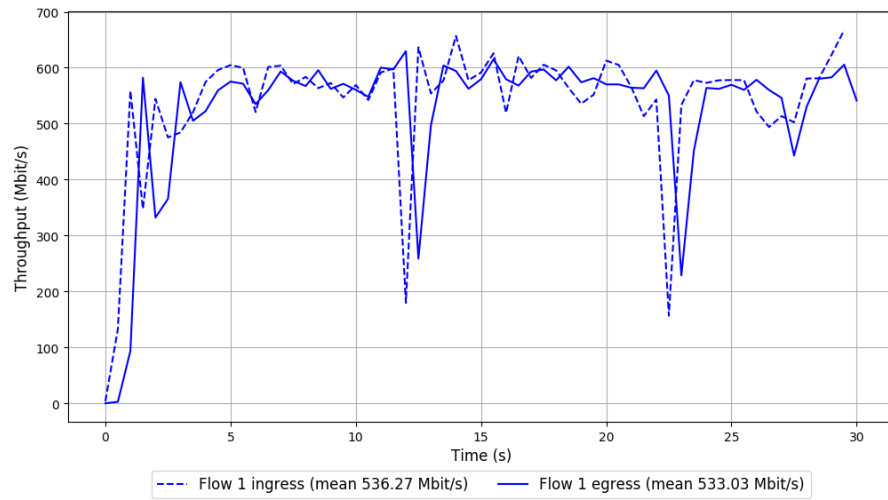


Run 5: Statistics of TCP BBR

Start at: 2019-06-28 16:53:41
End at: 2019-06-28 16:54:11
Local clock offset: 0.025 ms
Remote clock offset: -0.076 ms

Below is generated by plot.py at 2019-06-28 17:45:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 533.03 Mbit/s
95th percentile per-packet one-way delay: 156.142 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 533.03 Mbit/s
95th percentile per-packet one-way delay: 156.142 ms
Loss rate: 0.92%

Run 5: Report of TCP BBR — Data Link

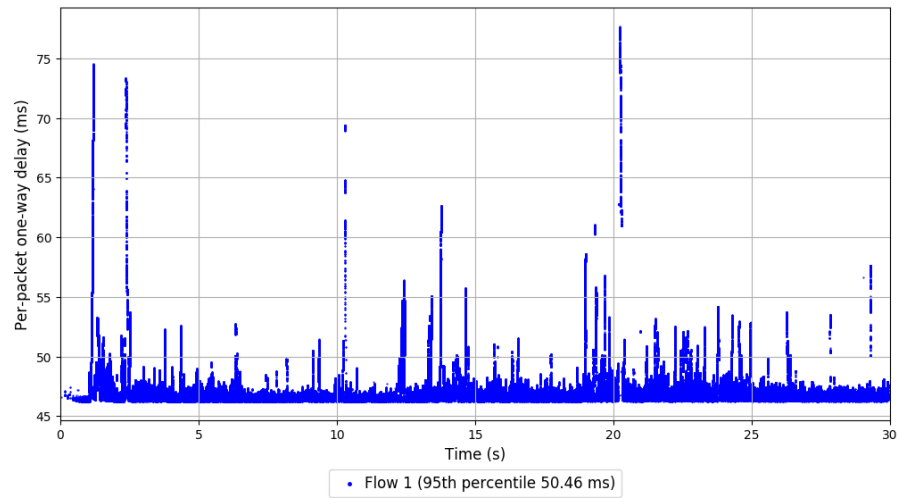
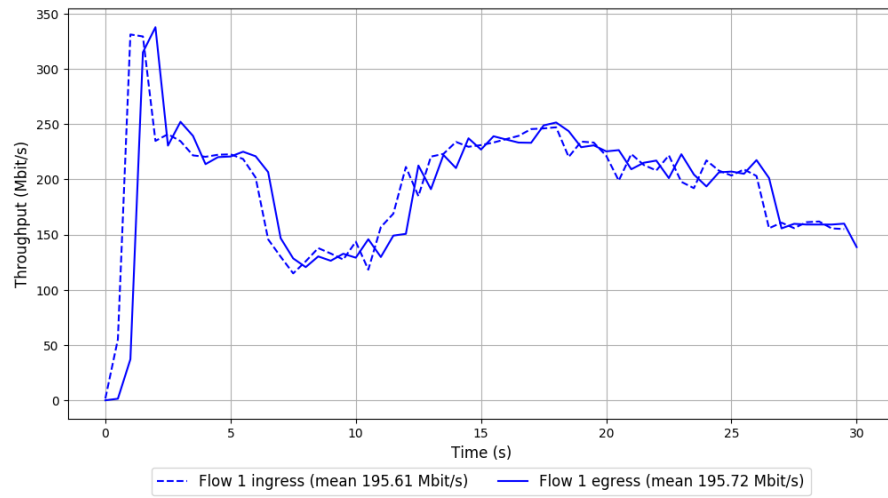


Run 1: Statistics of Copa

Start at: 2019-06-28 15:05:12
End at: 2019-06-28 15:05:42
Local clock offset: -0.086 ms
Remote clock offset: -0.099 ms

Below is generated by plot.py at 2019-06-28 17:45:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 195.72 Mbit/s
95th percentile per-packet one-way delay: 50.460 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 195.72 Mbit/s
95th percentile per-packet one-way delay: 50.460 ms
Loss rate: 0.26%

Run 1: Report of Copa — Data Link

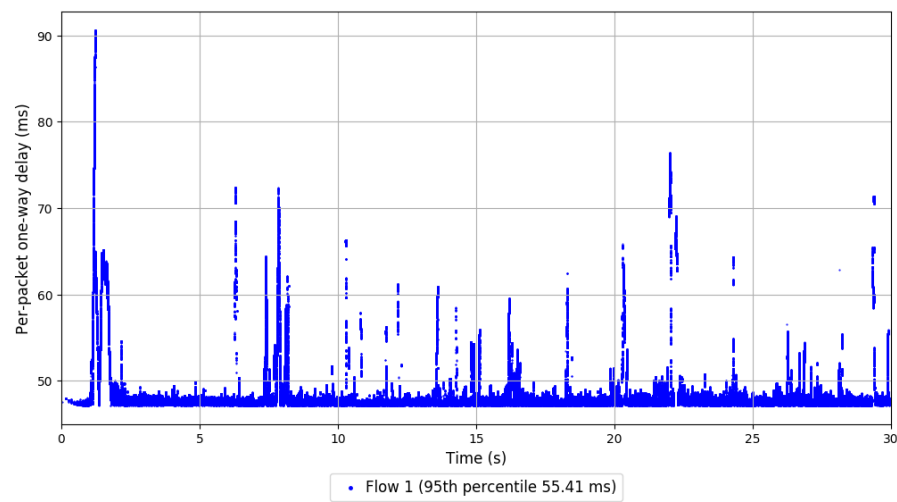
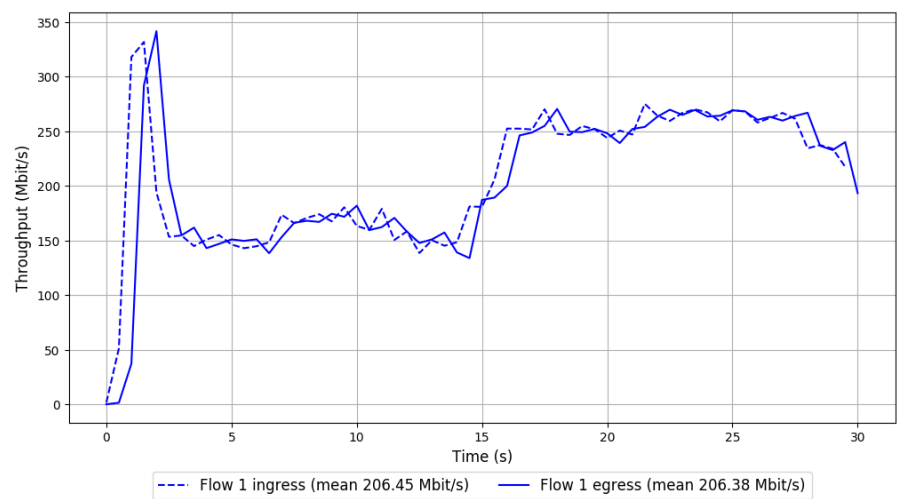


Run 2: Statistics of Copa

Start at: 2019-06-28 15:36:51
End at: 2019-06-28 15:37:21
Local clock offset: -0.058 ms
Remote clock offset: -0.138 ms

Below is generated by plot.py at 2019-06-28 17:45:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 206.38 Mbit/s
95th percentile per-packet one-way delay: 55.406 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 206.38 Mbit/s
95th percentile per-packet one-way delay: 55.406 ms
Loss rate: 0.35%

Run 2: Report of Copa — Data Link

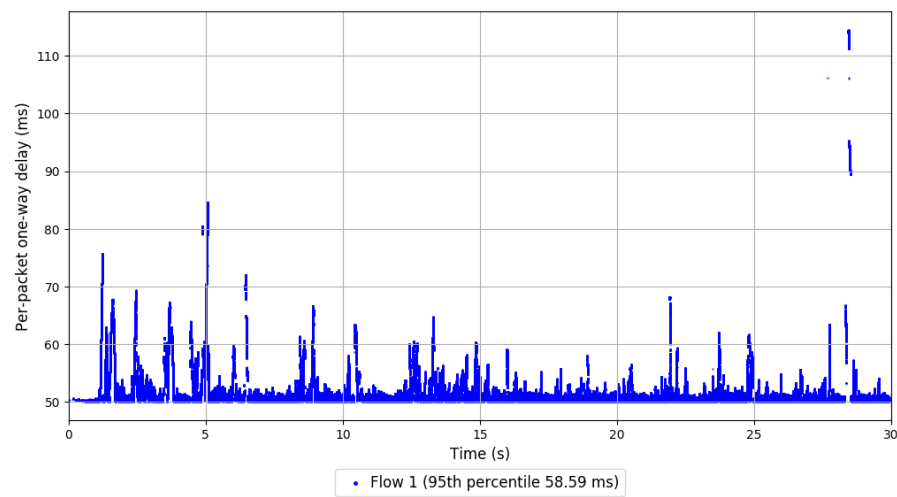
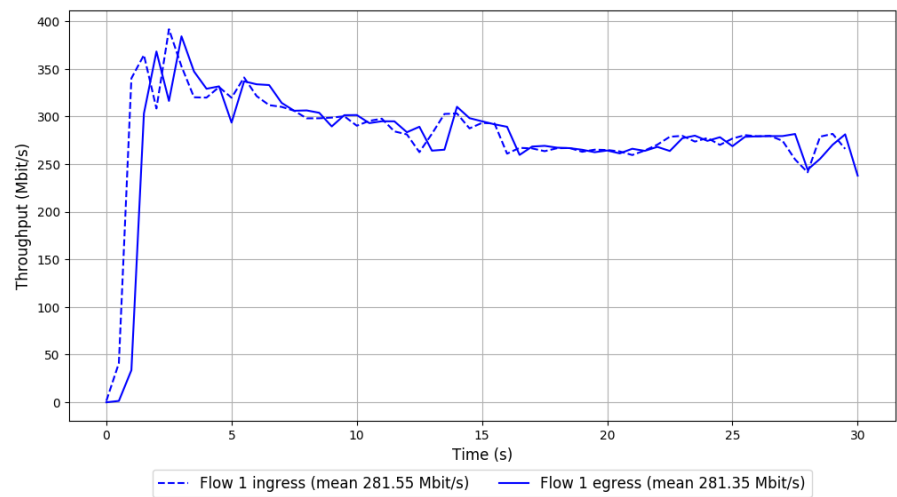


Run 3: Statistics of Copa

Start at: 2019-06-28 16:08:18
End at: 2019-06-28 16:08:48
Local clock offset: 0.054 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2019-06-28 17:45:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 281.35 Mbit/s
95th percentile per-packet one-way delay: 58.588 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 281.35 Mbit/s
95th percentile per-packet one-way delay: 58.588 ms
Loss rate: 0.40%

Run 3: Report of Copa — Data Link

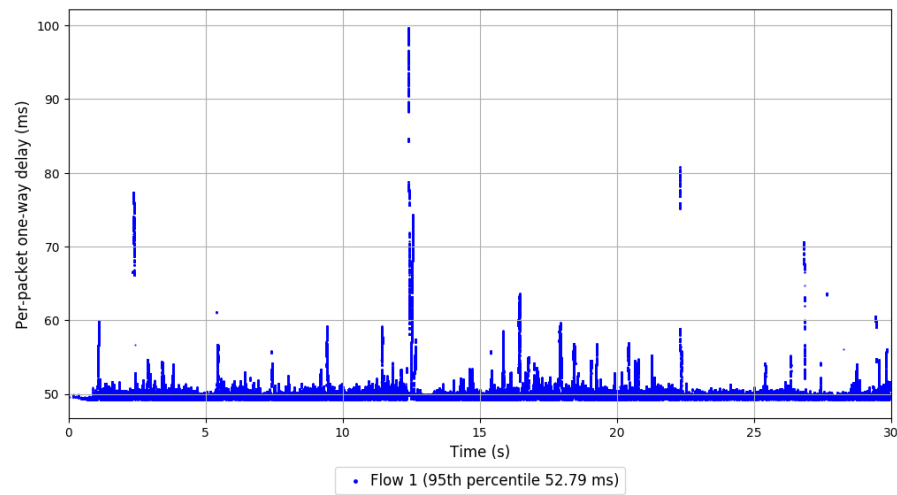
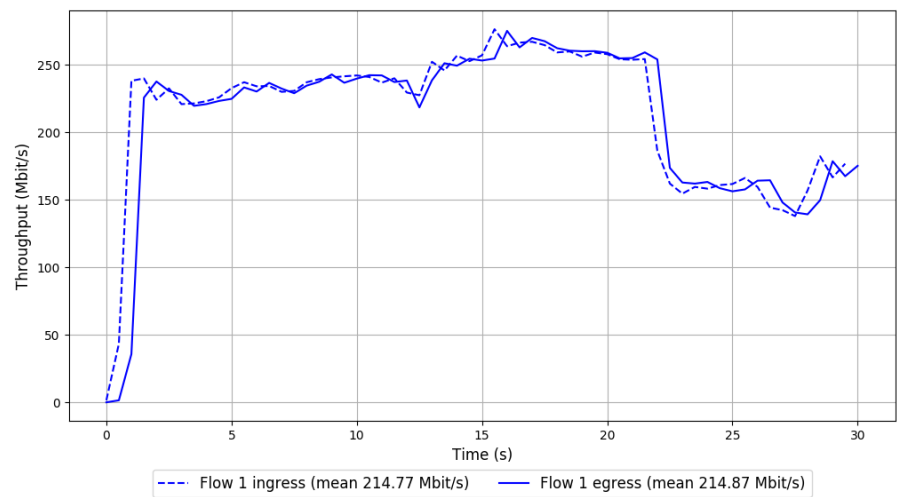


Run 4: Statistics of Copa

Start at: 2019-06-28 16:39:56
End at: 2019-06-28 16:40:26
Local clock offset: 0.05 ms
Remote clock offset: -0.042 ms

Below is generated by plot.py at 2019-06-28 17:49:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 214.87 Mbit/s
95th percentile per-packet one-way delay: 52.790 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 214.87 Mbit/s
95th percentile per-packet one-way delay: 52.790 ms
Loss rate: 0.28%

Run 4: Report of Copa — Data Link

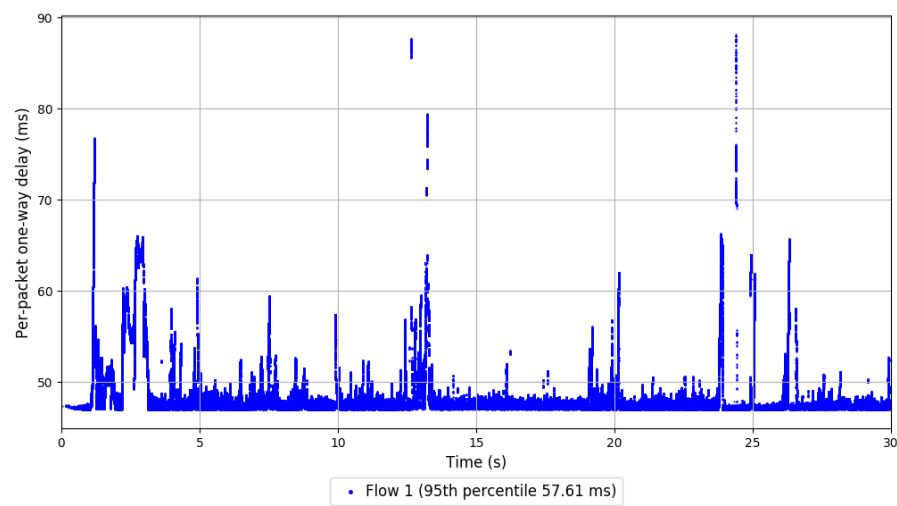
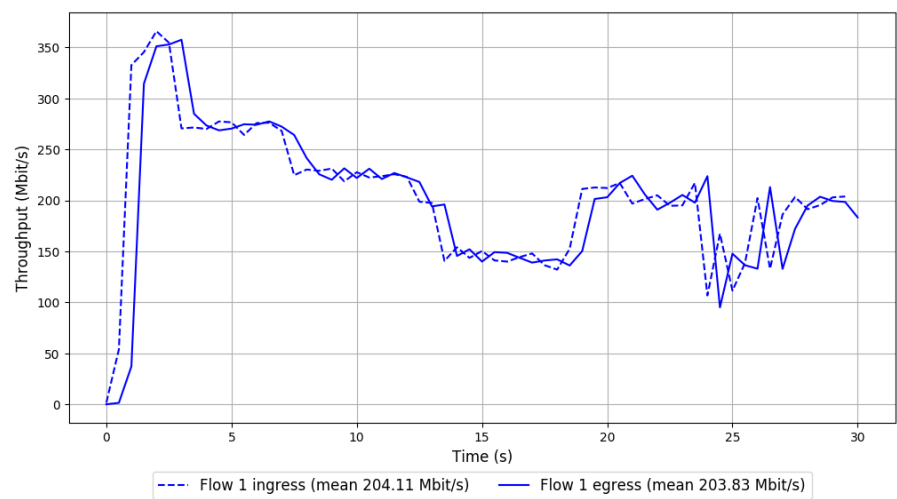


Run 5: Statistics of Copa

Start at: 2019-06-28 17:10:59
End at: 2019-06-28 17:11:29
Local clock offset: 0.039 ms
Remote clock offset: -0.014 ms

Below is generated by plot.py at 2019-06-28 17:49:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 203.83 Mbit/s
95th percentile per-packet one-way delay: 57.614 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 203.83 Mbit/s
95th percentile per-packet one-way delay: 57.614 ms
Loss rate: 0.46%

Run 5: Report of Copa — Data Link

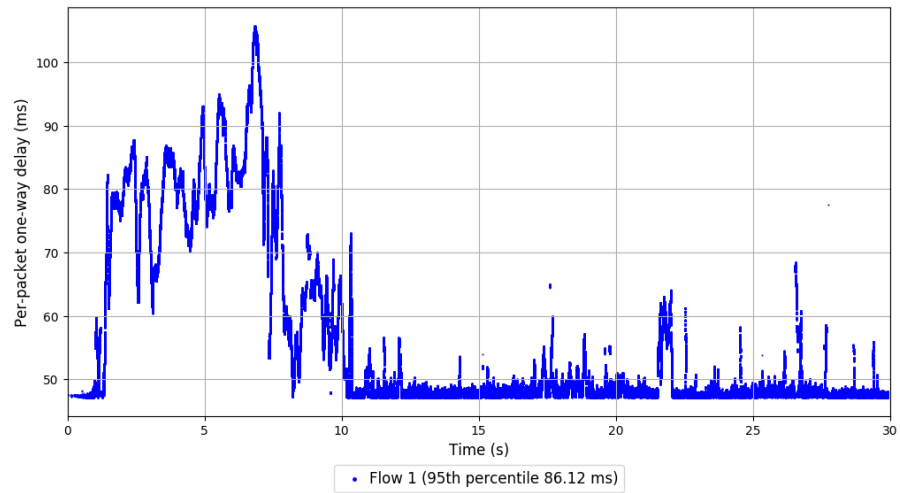
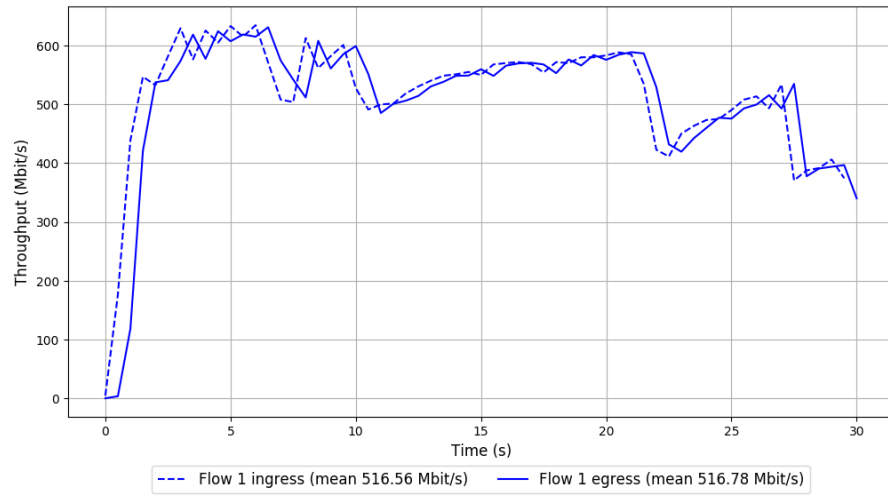


Run 1: Statistics of TCP Cubic

Start at: 2019-06-28 15:13:31
End at: 2019-06-28 15:14:01
Local clock offset: -0.101 ms
Remote clock offset: -0.138 ms

Below is generated by plot.py at 2019-06-28 17:54:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 516.78 Mbit/s
95th percentile per-packet one-way delay: 86.117 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 516.78 Mbit/s
95th percentile per-packet one-way delay: 86.117 ms
Loss rate: 0.27%

Run 1: Report of TCP Cubic — Data Link

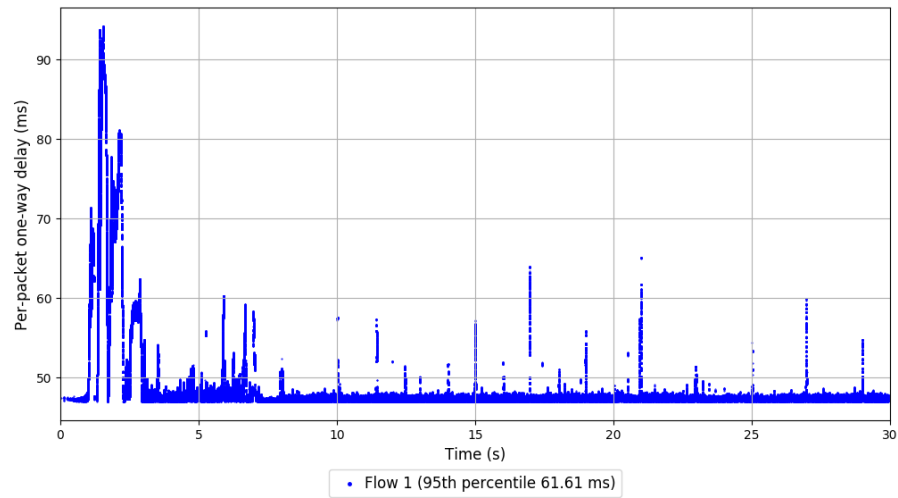
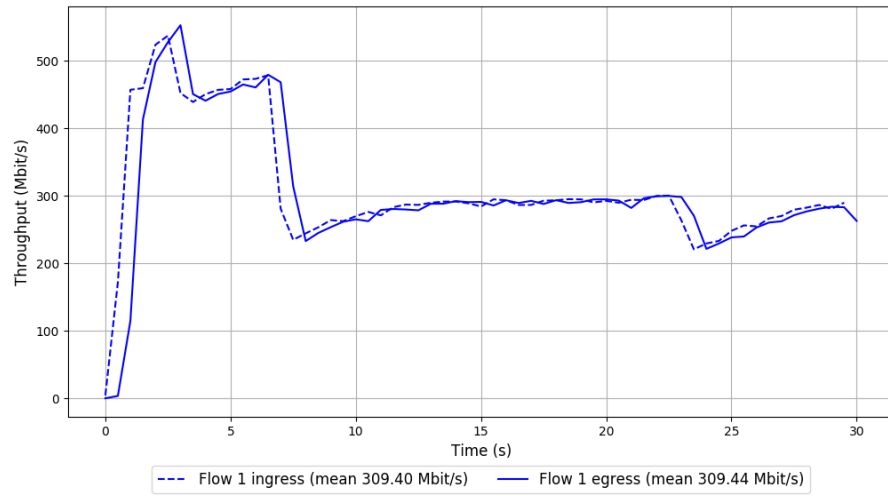


Run 2: Statistics of TCP Cubic

Start at: 2019-06-28 15:45:16
End at: 2019-06-28 15:45:46
Local clock offset: -0.037 ms
Remote clock offset: -0.101 ms

Below is generated by plot.py at 2019-06-28 17:54:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 309.44 Mbit/s
95th percentile per-packet one-way delay: 61.607 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 309.44 Mbit/s
95th percentile per-packet one-way delay: 61.607 ms
Loss rate: 0.30%

Run 2: Report of TCP Cubic — Data Link

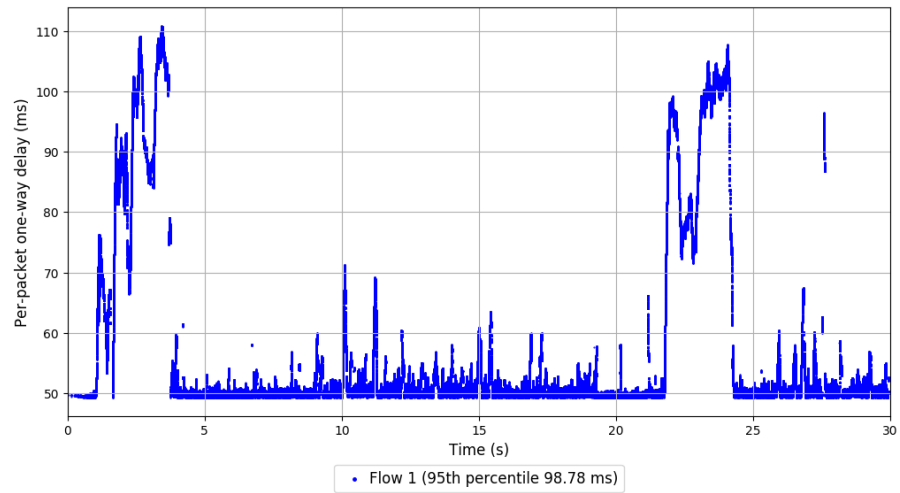
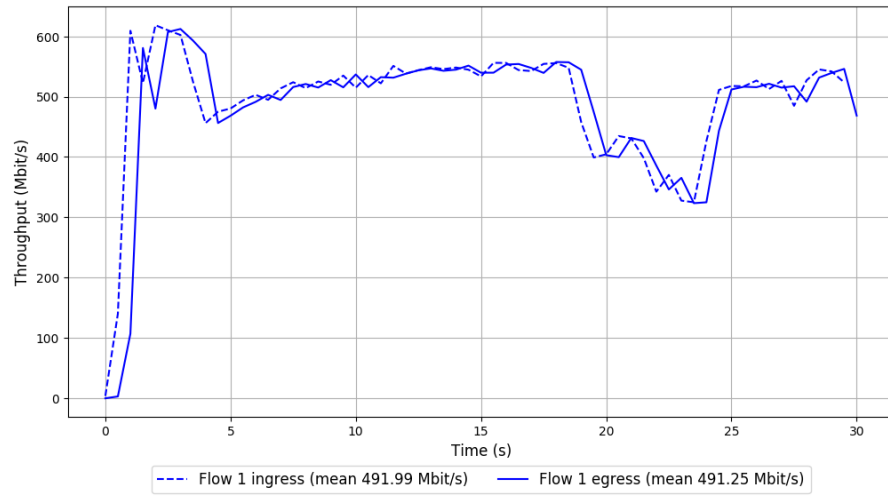


Run 3: Statistics of TCP Cubic

Start at: 2019-06-28 16:16:50
End at: 2019-06-28 16:17:20
Local clock offset: 0.063 ms
Remote clock offset: -0.034 ms

Below is generated by plot.py at 2019-06-28 17:54:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 491.25 Mbit/s
95th percentile per-packet one-way delay: 98.784 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 491.25 Mbit/s
95th percentile per-packet one-way delay: 98.784 ms
Loss rate: 0.47%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-06-28 16:48:08

End at: 2019-06-28 16:48:38

Local clock offset: 0.056 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2019-06-28 17:54:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 499.19 Mbit/s

95th percentile per-packet one-way delay: 75.921 ms

Loss rate: 0.42%

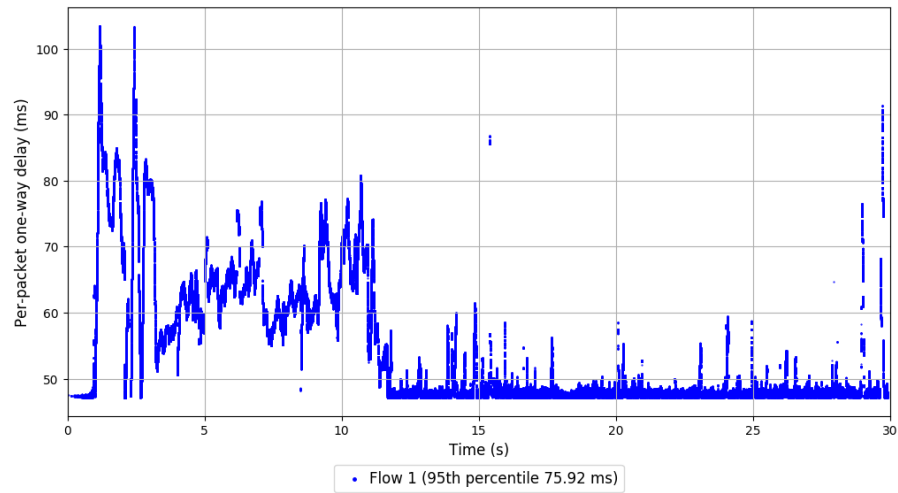
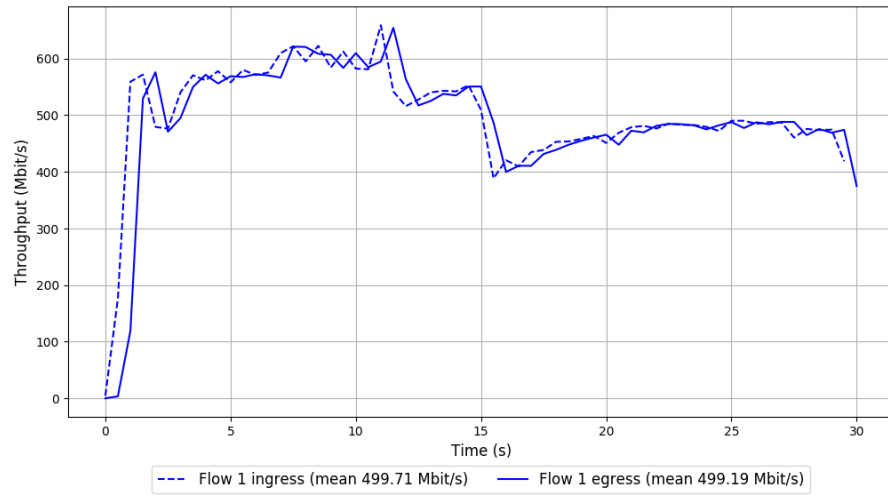
-- Flow 1:

Average throughput: 499.19 Mbit/s

95th percentile per-packet one-way delay: 75.921 ms

Loss rate: 0.42%

Run 4: Report of TCP Cubic — Data Link

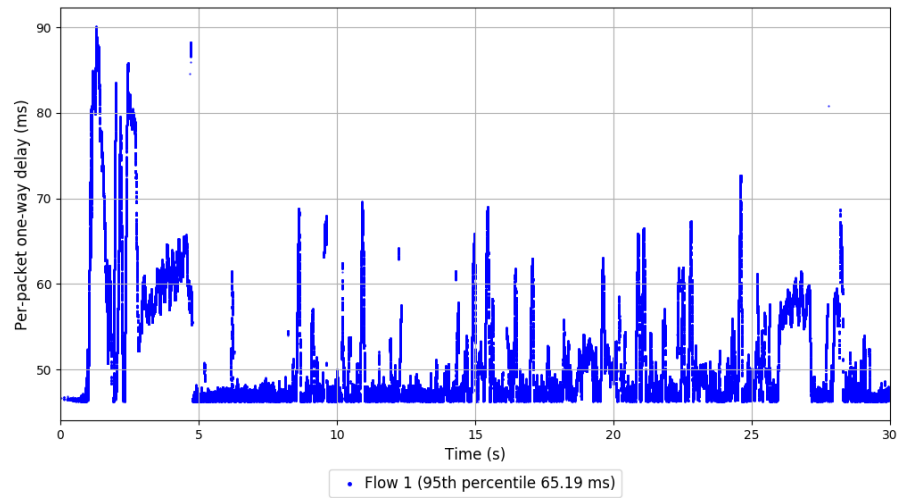
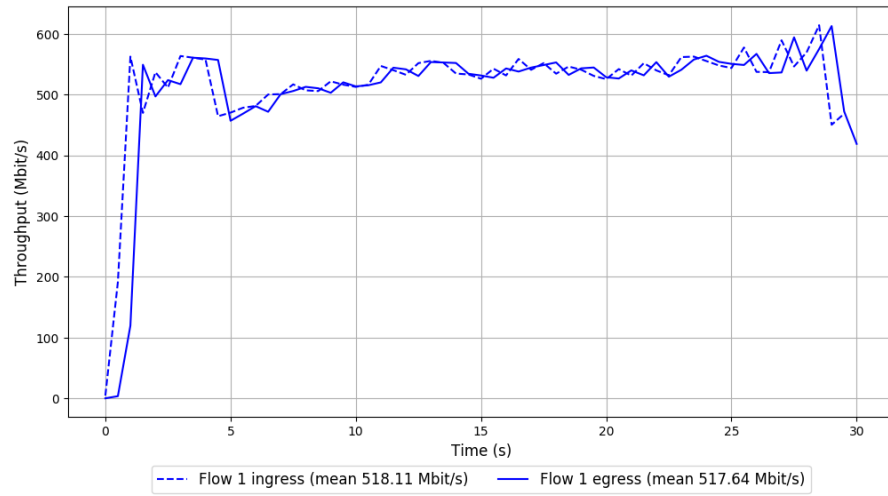


Run 5: Statistics of TCP Cubic

Start at: 2019-06-28 17:19:19
End at: 2019-06-28 17:19:49
Local clock offset: 0.004 ms
Remote clock offset: -0.066 ms

Below is generated by plot.py at 2019-06-28 17:54:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 517.64 Mbit/s
95th percentile per-packet one-way delay: 65.191 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 517.64 Mbit/s
95th percentile per-packet one-way delay: 65.191 ms
Loss rate: 0.40%

Run 5: Report of TCP Cubic — Data Link

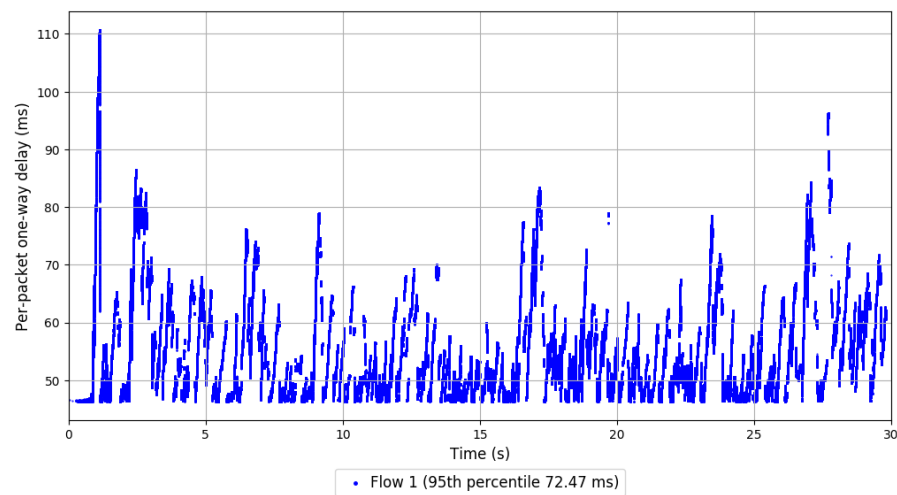
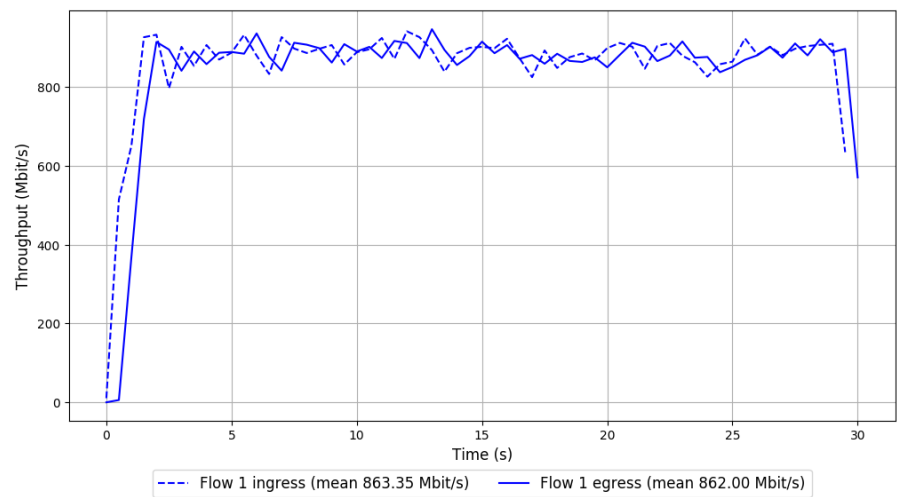


Run 1: Statistics of FillP

Start at: 2019-06-28 15:15:03
End at: 2019-06-28 15:15:33
Local clock offset: -0.069 ms
Remote clock offset: -0.126 ms

Below is generated by plot.py at 2019-06-28 18:04:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 862.00 Mbit/s
95th percentile per-packet one-way delay: 72.467 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 862.00 Mbit/s
95th percentile per-packet one-way delay: 72.467 ms
Loss rate: 0.47%

Run 1: Report of FillP — Data Link

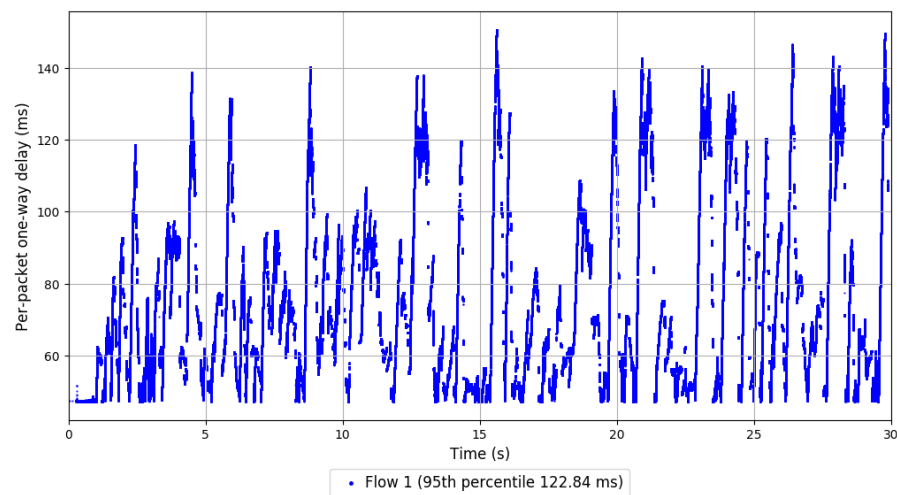
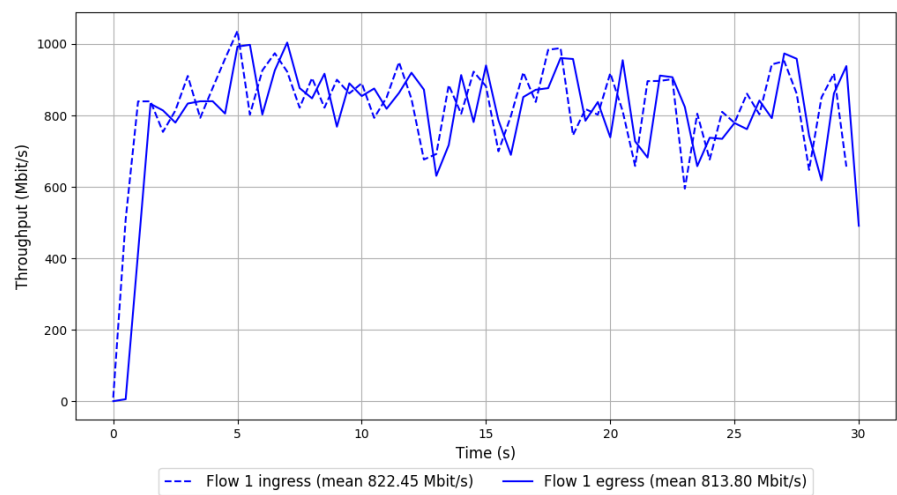


Run 2: Statistics of FillP

Start at: 2019-06-28 15:46:38
End at: 2019-06-28 15:47:08
Local clock offset: -0.007 ms
Remote clock offset: -0.049 ms

Below is generated by plot.py at 2019-06-28 18:07:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 813.80 Mbit/s
95th percentile per-packet one-way delay: 122.837 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 813.80 Mbit/s
95th percentile per-packet one-way delay: 122.837 ms
Loss rate: 1.37%

Run 2: Report of FillP — Data Link

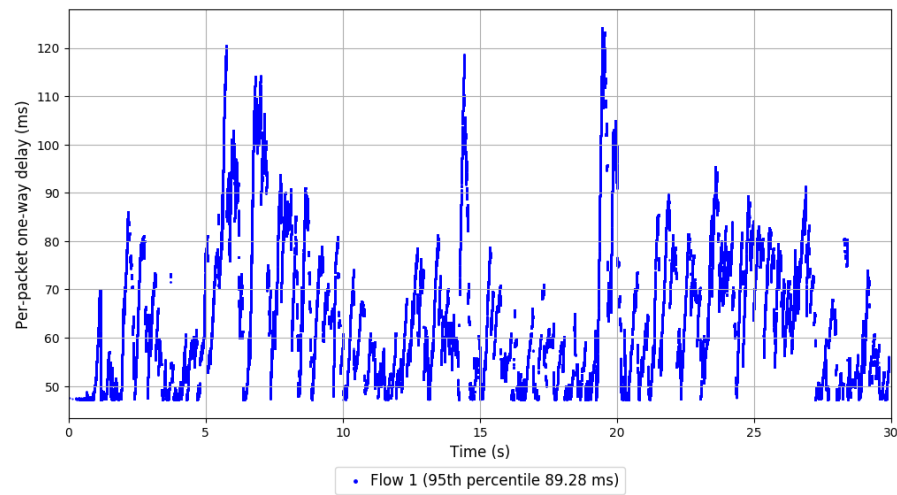
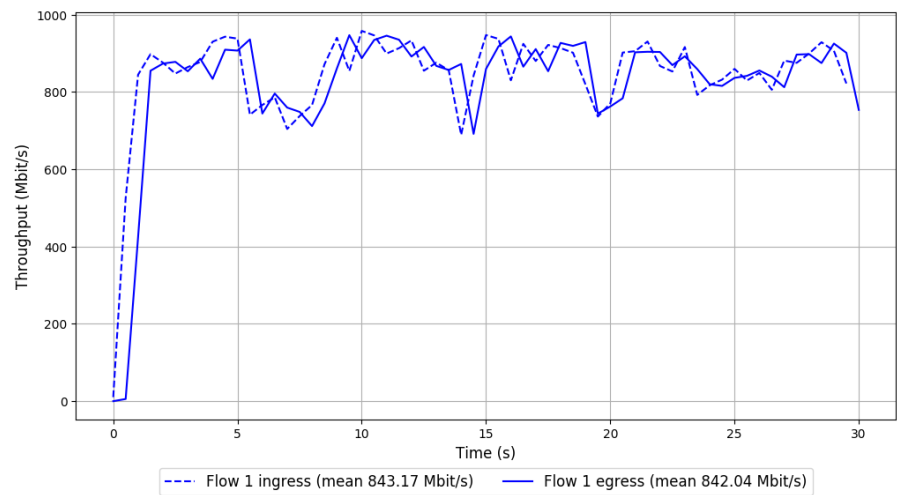


Run 3: Statistics of FillP

Start at: 2019-06-28 16:18:19
End at: 2019-06-28 16:18:49
Local clock offset: 0.083 ms
Remote clock offset: -0.075 ms

Below is generated by plot.py at 2019-06-28 18:09:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 842.04 Mbit/s
95th percentile per-packet one-way delay: 89.282 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 842.04 Mbit/s
95th percentile per-packet one-way delay: 89.282 ms
Loss rate: 0.45%

Run 3: Report of FillP — Data Link

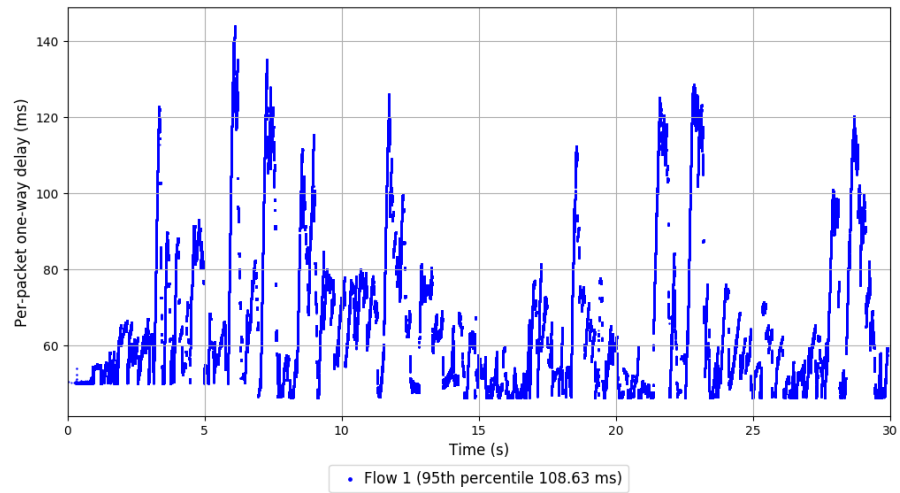
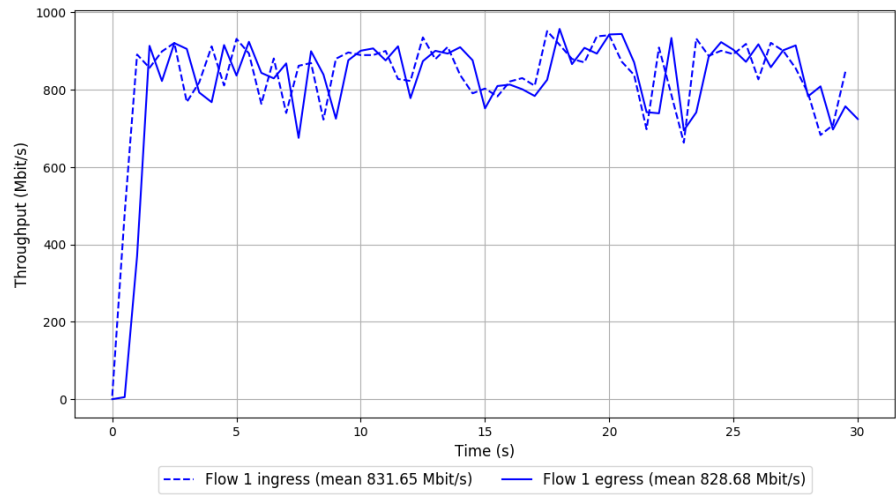


Run 4: Statistics of FillP

Start at: 2019-06-28 16:49:38
End at: 2019-06-28 16:50:08
Local clock offset: 0.099 ms
Remote clock offset: -0.066 ms

Below is generated by plot.py at 2019-06-28 18:10:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 828.68 Mbit/s
95th percentile per-packet one-way delay: 108.634 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 828.68 Mbit/s
95th percentile per-packet one-way delay: 108.634 ms
Loss rate: 0.69%

Run 4: Report of FillP — Data Link

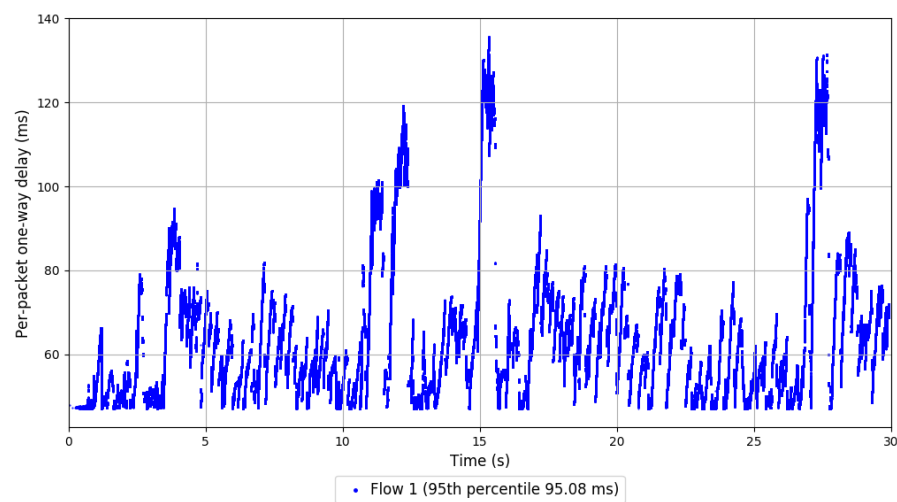
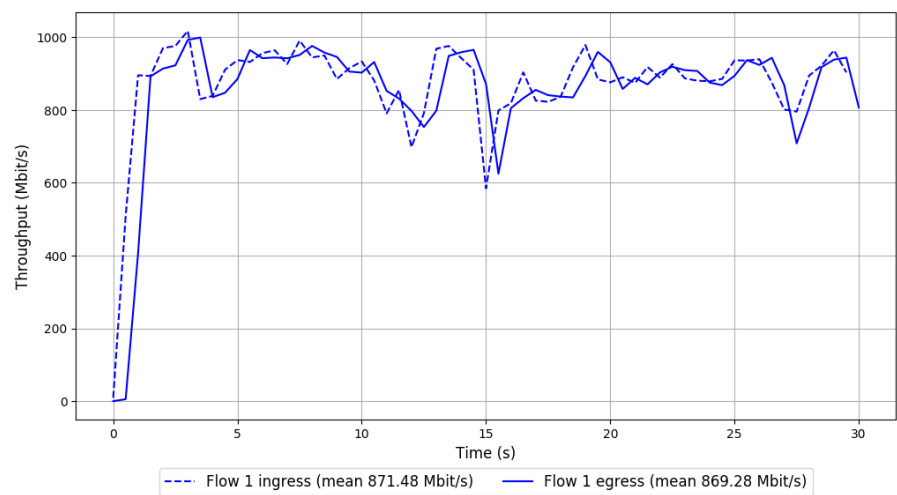


Run 5: Statistics of FillP

Start at: 2019-06-28 17:20:51
End at: 2019-06-28 17:21:21
Local clock offset: 0.017 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2019-06-28 18:13:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 869.28 Mbit/s
95th percentile per-packet one-way delay: 95.079 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 869.28 Mbit/s
95th percentile per-packet one-way delay: 95.079 ms
Loss rate: 0.57%

Run 5: Report of FillP — Data Link

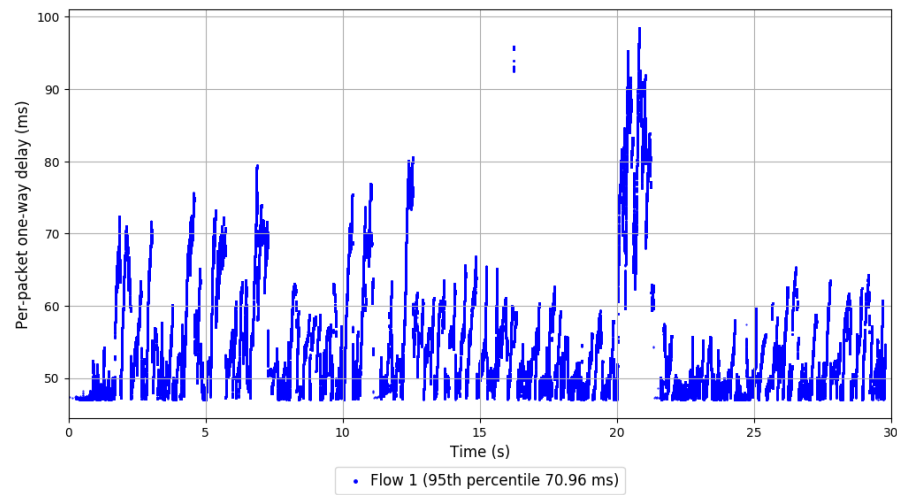
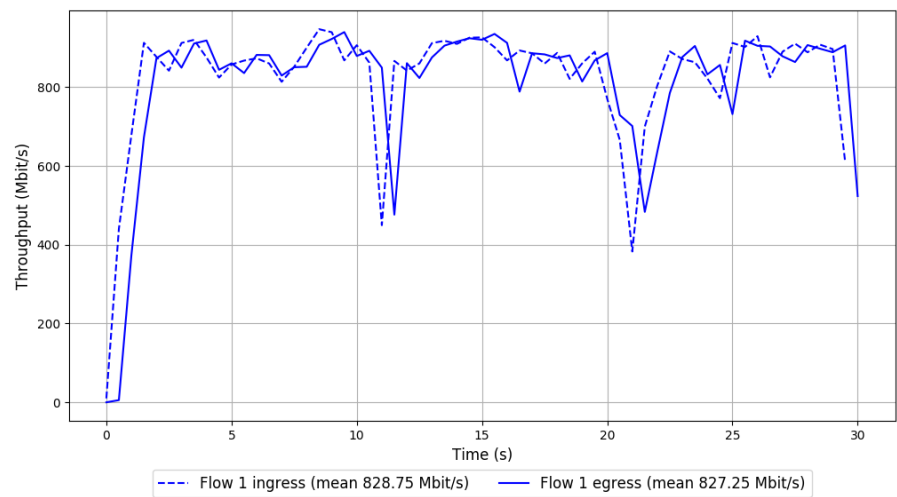


Run 1: Statistics of FillP-Sheep

Start at: 2019-06-28 14:57:07
End at: 2019-06-28 14:57:37
Local clock offset: -0.073 ms
Remote clock offset: -0.106 ms

Below is generated by plot.py at 2019-06-28 18:13:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 827.25 Mbit/s
95th percentile per-packet one-way delay: 70.964 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 827.25 Mbit/s
95th percentile per-packet one-way delay: 70.964 ms
Loss rate: 0.50%

Run 1: Report of FillP-Sheep — Data Link

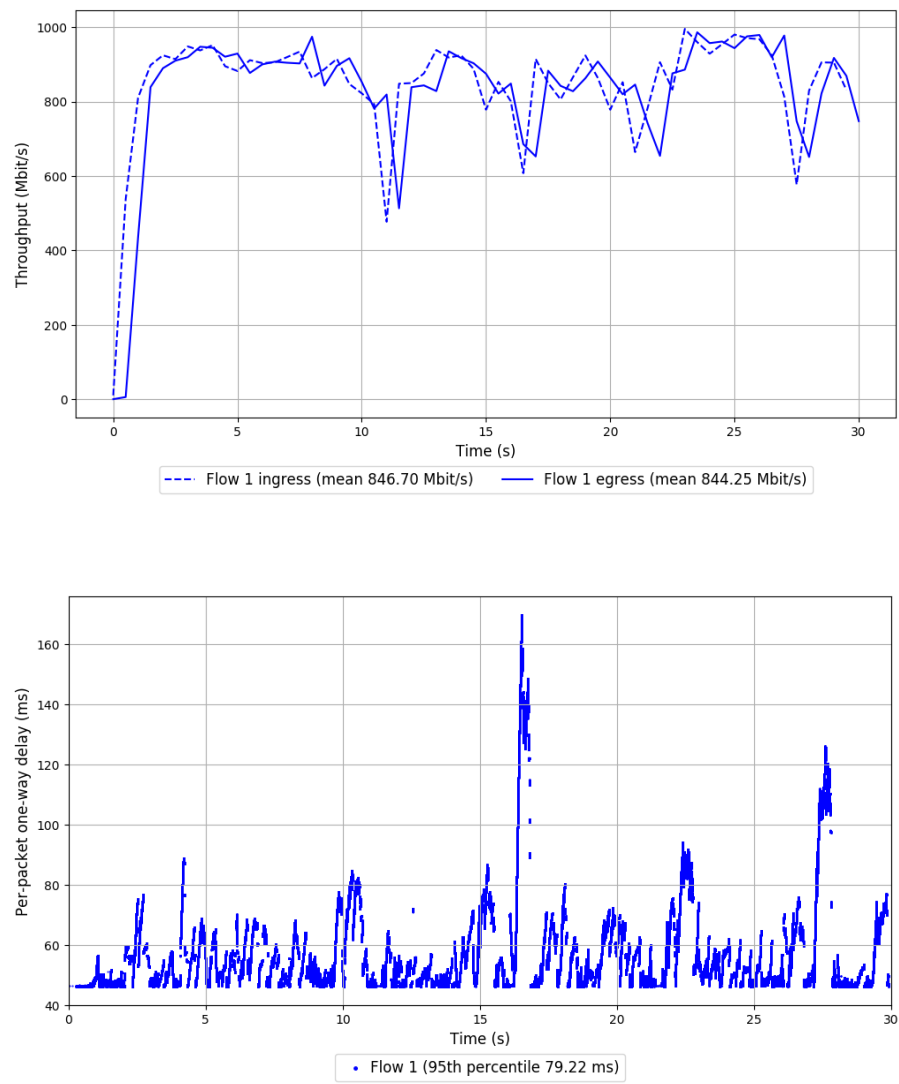


Run 2: Statistics of FillP-Sheep

Start at: 2019-06-28 15:28:41
End at: 2019-06-28 15:29:11
Local clock offset: -0.071 ms
Remote clock offset: -0.134 ms

Below is generated by plot.py at 2019-06-28 18:13:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 844.25 Mbit/s
95th percentile per-packet one-way delay: 79.224 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 844.25 Mbit/s
95th percentile per-packet one-way delay: 79.224 ms
Loss rate: 0.61%

Run 2: Report of FillP-Sheep — Data Link

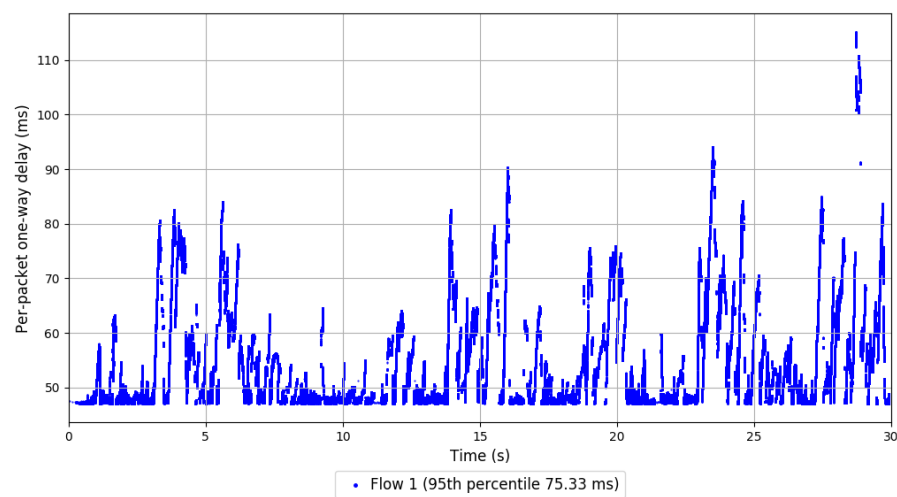
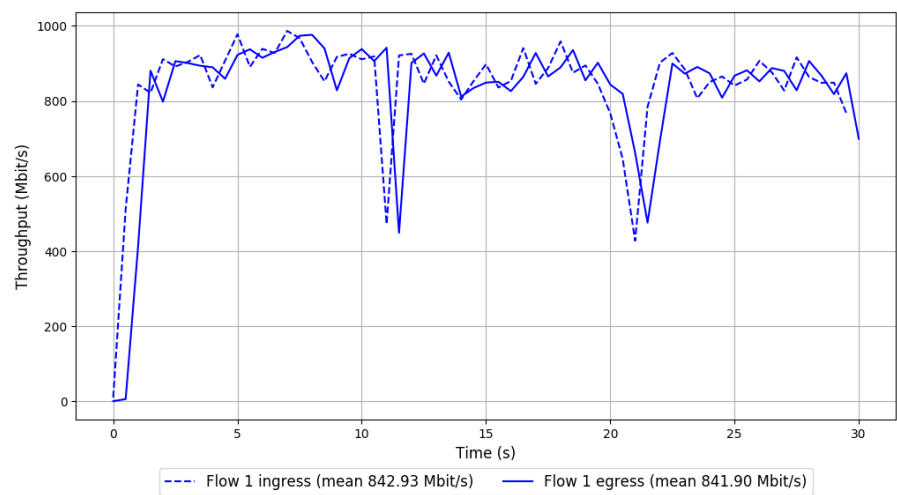


Run 3: Statistics of FillP-Sheep

Start at: 2019-06-28 16:00:07
End at: 2019-06-28 16:00:37
Local clock offset: 0.015 ms
Remote clock offset: -0.051 ms

Below is generated by plot.py at 2019-06-28 18:13:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 841.90 Mbit/s
95th percentile per-packet one-way delay: 75.325 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 841.90 Mbit/s
95th percentile per-packet one-way delay: 75.325 ms
Loss rate: 0.44%

Run 3: Report of FillP-Sheep — Data Link

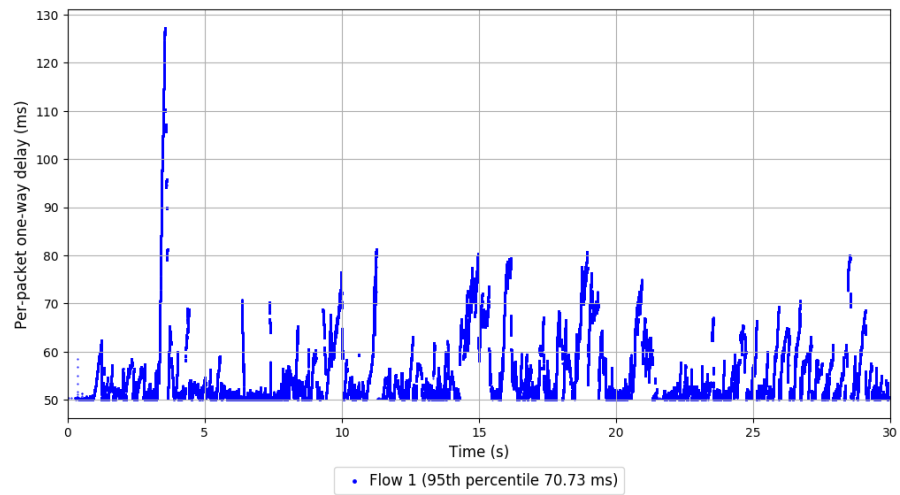
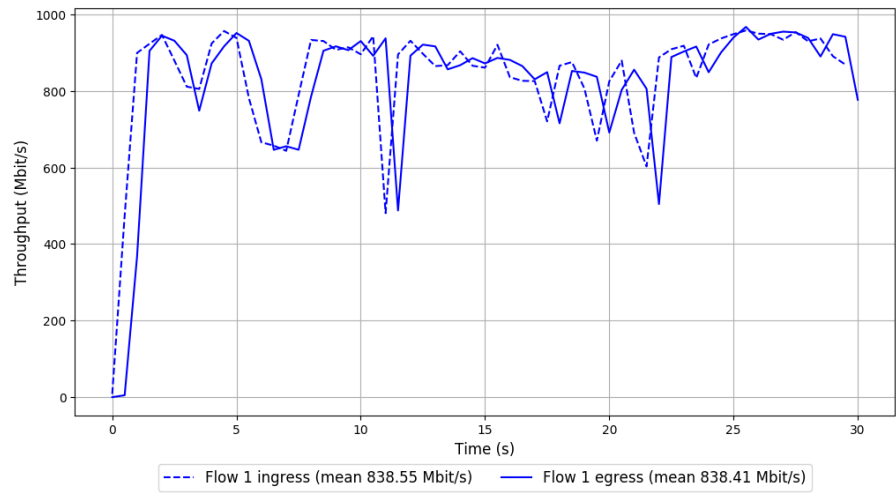


Run 4: Statistics of FillP-Sheep

Start at: 2019-06-28 16:31:44
End at: 2019-06-28 16:32:14
Local clock offset: 0.117 ms
Remote clock offset: -0.068 ms

Below is generated by plot.py at 2019-06-28 18:23:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 838.41 Mbit/s
95th percentile per-packet one-way delay: 70.731 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 838.41 Mbit/s
95th percentile per-packet one-way delay: 70.731 ms
Loss rate: 0.35%

Run 4: Report of FillP-Sheep — Data Link

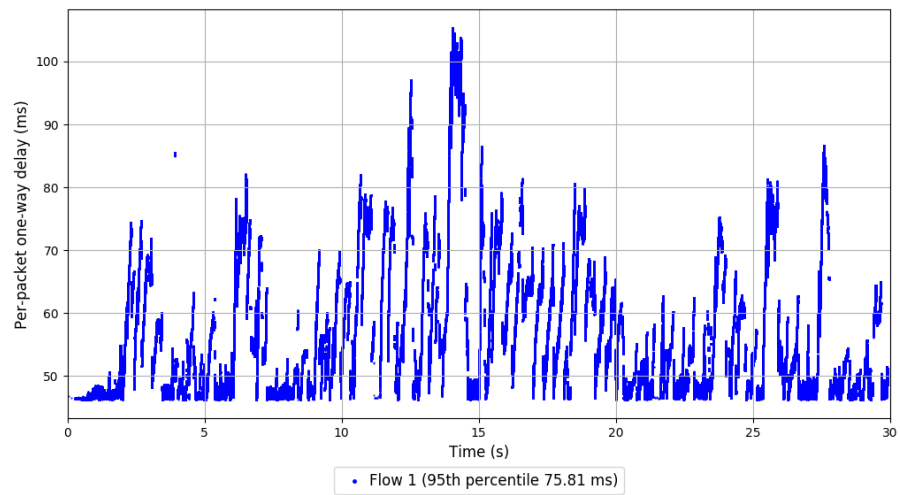
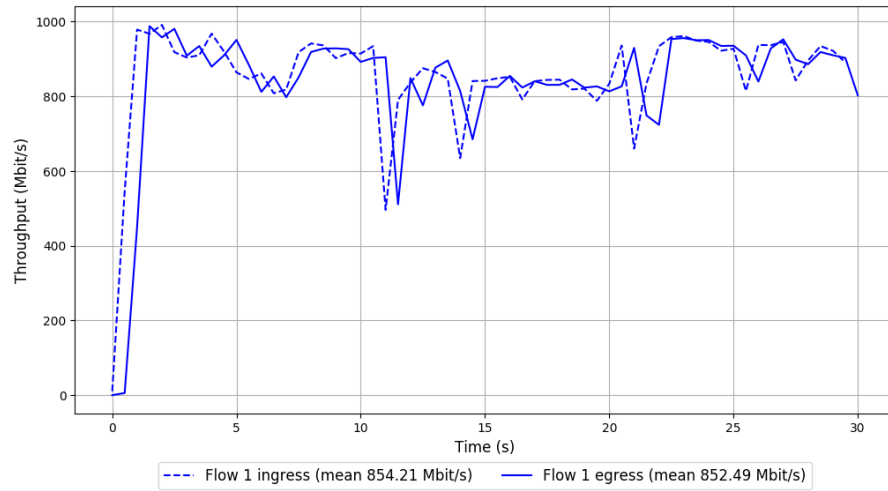


Run 5: Statistics of FillP-Sheep

Start at: 2019-06-28 17:02:49
End at: 2019-06-28 17:03:19
Local clock offset: 0.029 ms
Remote clock offset: -0.028 ms

Below is generated by plot.py at 2019-06-28 18:26:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 852.49 Mbit/s
95th percentile per-packet one-way delay: 75.805 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 852.49 Mbit/s
95th percentile per-packet one-way delay: 75.805 ms
Loss rate: 0.52%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

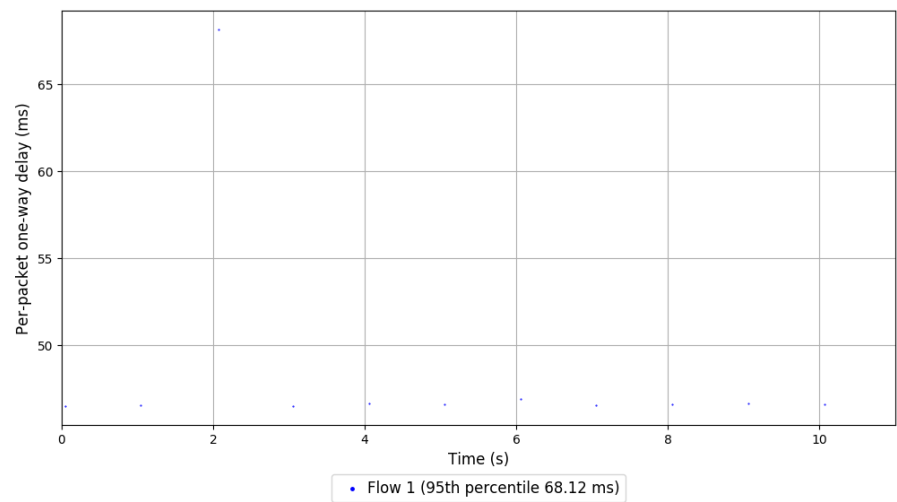
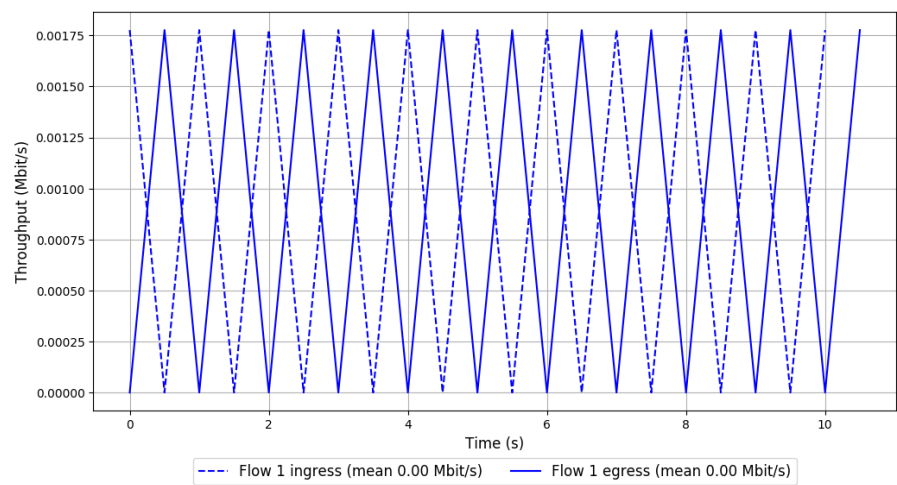
Start at: 2019-06-28 14:49:50

End at: 2019-06-28 14:50:20

Local clock offset: -0.111 ms

Remote clock offset: -0.095 ms

Run 1: Report of Indigo — Data Link

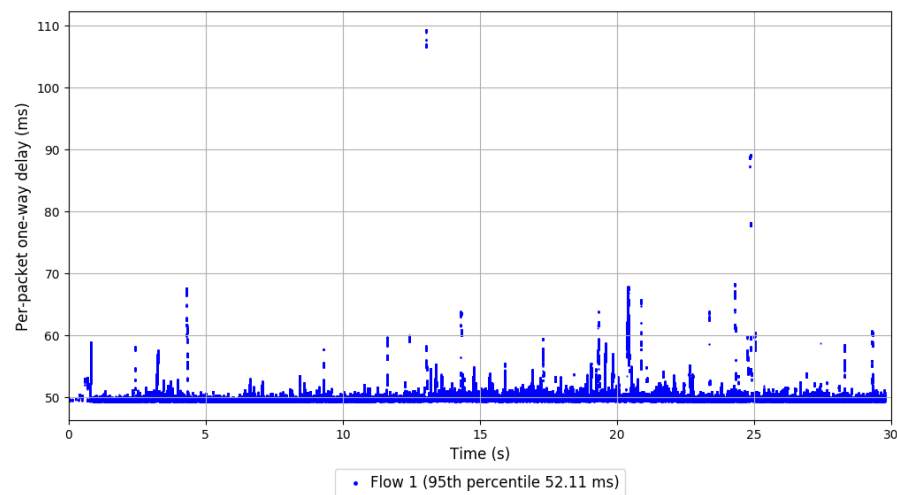
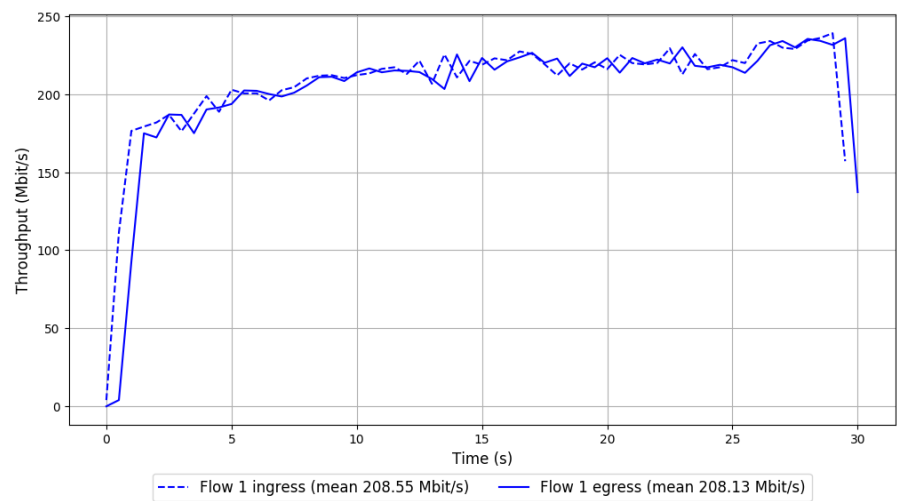


Run 2: Statistics of Indigo

Start at: 2019-06-28 15:20:58
End at: 2019-06-28 15:21:28
Local clock offset: -0.02 ms
Remote clock offset: -0.136 ms

Below is generated by plot.py at 2019-06-28 18:26:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 208.13 Mbit/s
95th percentile per-packet one-way delay: 52.110 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 208.13 Mbit/s
95th percentile per-packet one-way delay: 52.110 ms
Loss rate: 0.53%

Run 2: Report of Indigo — Data Link

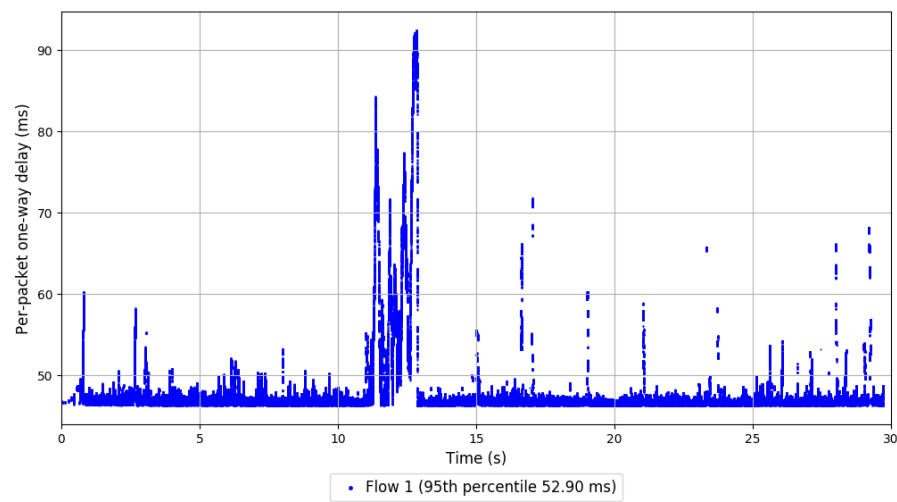
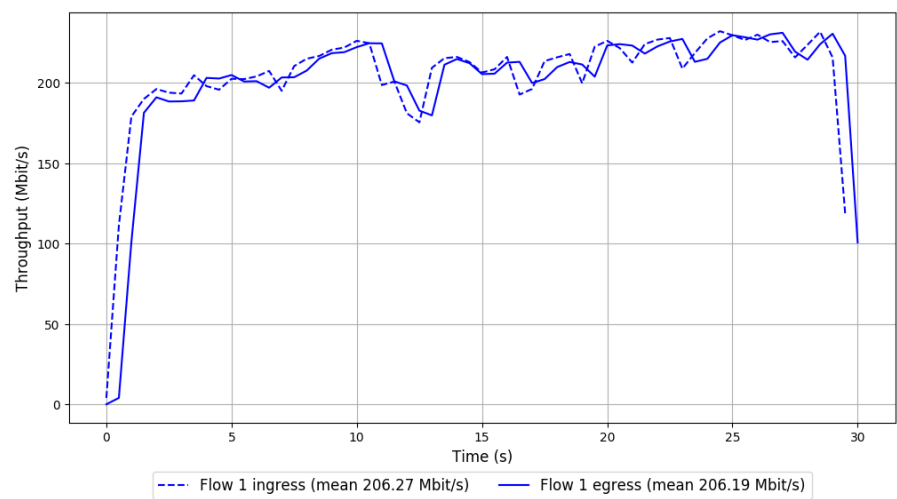


Run 3: Statistics of Indigo

Start at: 2019-06-28 15:52:30
End at: 2019-06-28 15:53:01
Local clock offset: -0.005 ms
Remote clock offset: -0.066 ms

Below is generated by plot.py at 2019-06-28 18:26:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 206.19 Mbit/s
95th percentile per-packet one-way delay: 52.904 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 206.19 Mbit/s
95th percentile per-packet one-way delay: 52.904 ms
Loss rate: 0.36%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-06-28 16:24:13

End at: 2019-06-28 16:24:43

Local clock offset: 0.105 ms

Remote clock offset: -0.07 ms

Below is generated by plot.py at 2019-06-28 18:26:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.93 Mbit/s

95th percentile per-packet one-way delay: 49.264 ms

Loss rate: 0.45%

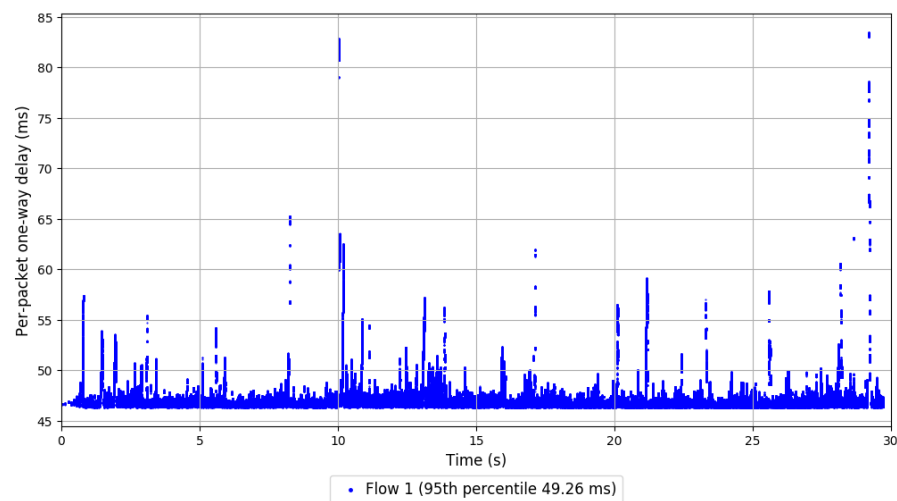
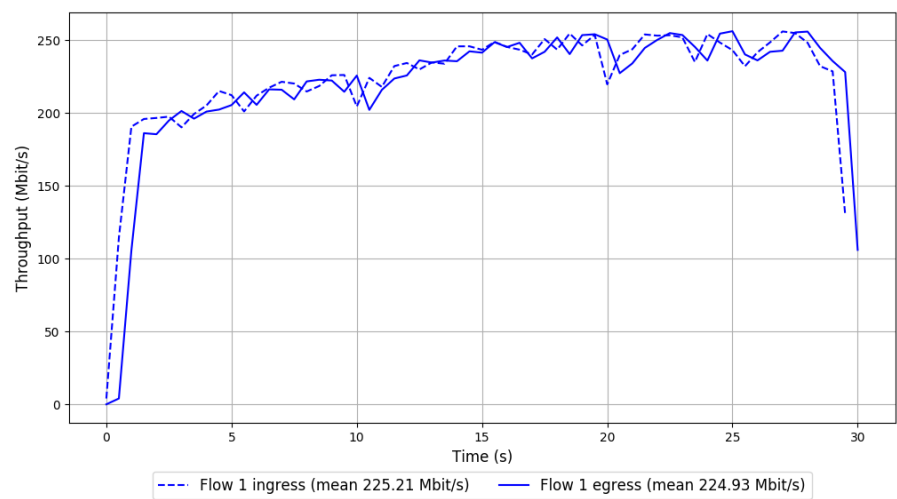
-- Flow 1:

Average throughput: 224.93 Mbit/s

95th percentile per-packet one-way delay: 49.264 ms

Loss rate: 0.45%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-06-28 16:55:14

End at: 2019-06-28 16:55:45

Local clock offset: 0.059 ms

Remote clock offset: -0.064 ms

Below is generated by plot.py at 2019-06-28 18:26:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.23 Mbit/s

95th percentile per-packet one-way delay: 48.447 ms

Loss rate: 0.39%

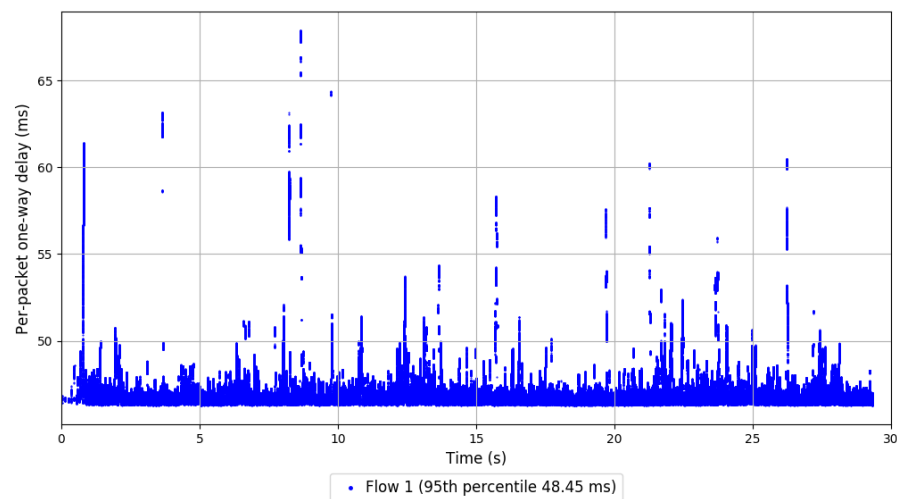
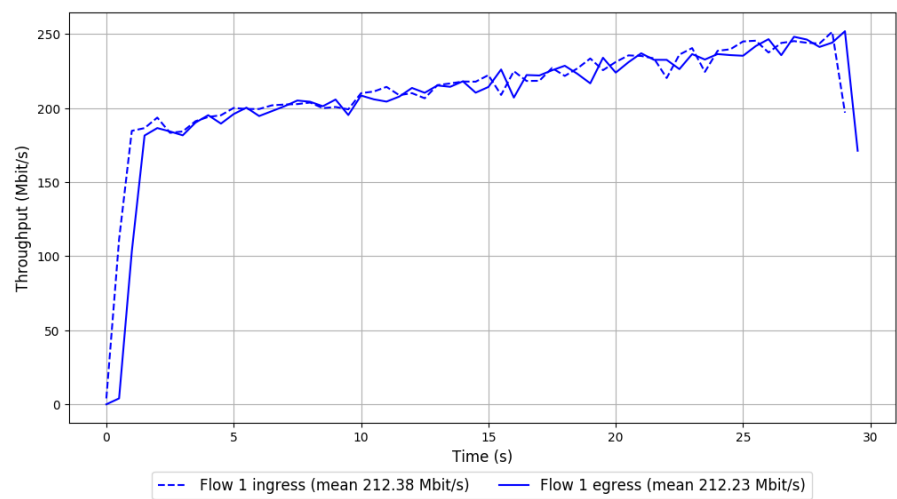
-- Flow 1:

Average throughput: 212.23 Mbit/s

95th percentile per-packet one-way delay: 48.447 ms

Loss rate: 0.39%

Run 5: Report of Indigo — Data Link

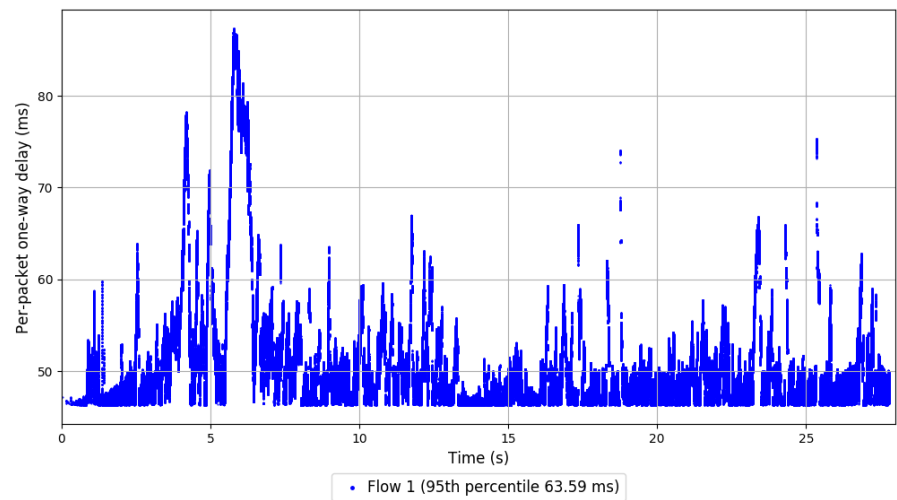
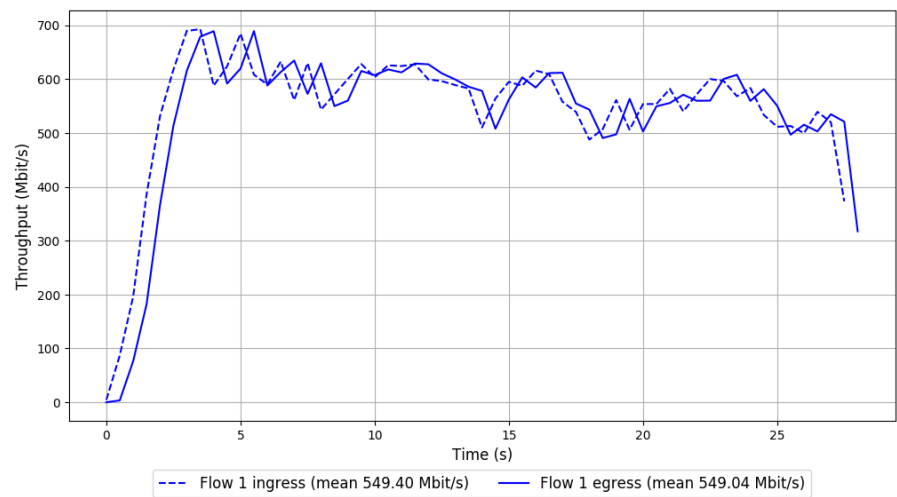


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-06-28 15:01:02
End at: 2019-06-28 15:01:32
Local clock offset: -0.098 ms
Remote clock offset: -0.103 ms

Below is generated by plot.py at 2019-06-28 18:26:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 549.04 Mbit/s
95th percentile per-packet one-way delay: 63.592 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 549.04 Mbit/s
95th percentile per-packet one-way delay: 63.592 ms
Loss rate: 0.40%

Run 1: Report of Indigo-MusesC3 — Data Link

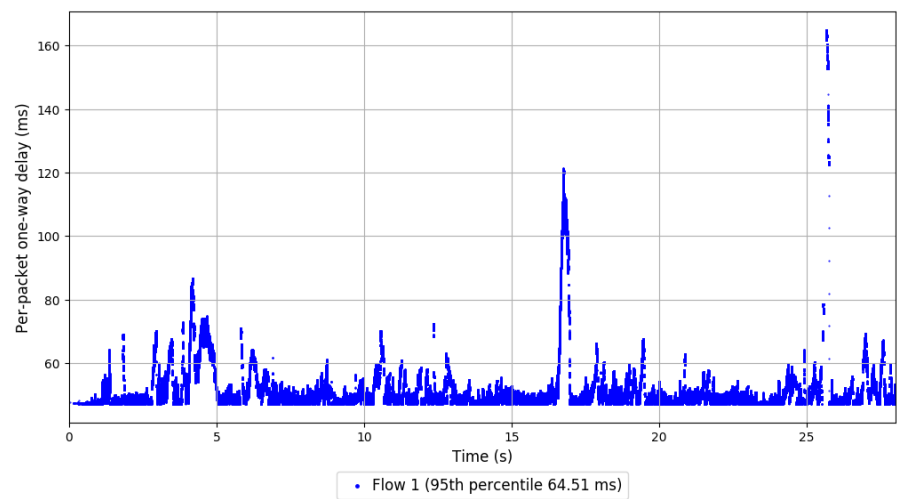
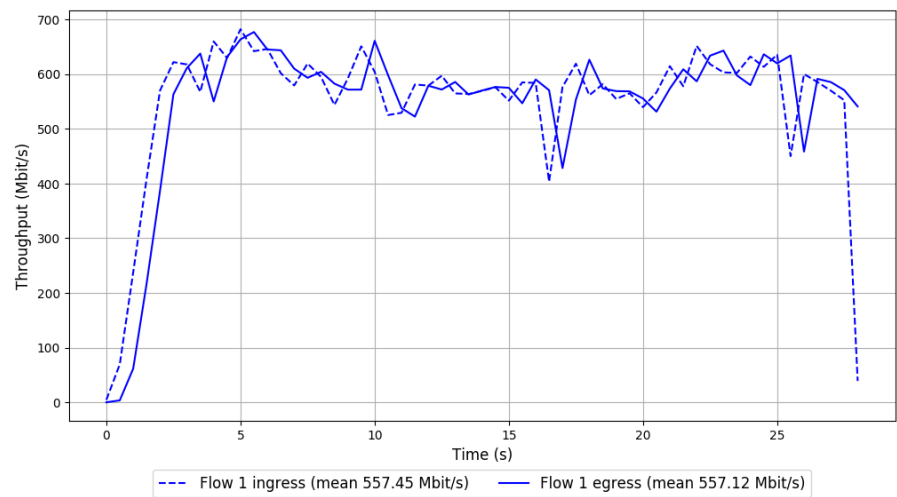


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-06-28 15:32:39
End at: 2019-06-28 15:33:09
Local clock offset: -0.115 ms
Remote clock offset: -0.174 ms

Below is generated by plot.py at 2019-06-28 18:26:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 557.12 Mbit/s
95th percentile per-packet one-way delay: 64.512 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 557.12 Mbit/s
95th percentile per-packet one-way delay: 64.512 ms
Loss rate: 0.39%

Run 2: Report of Indigo-MusesC3 — Data Link

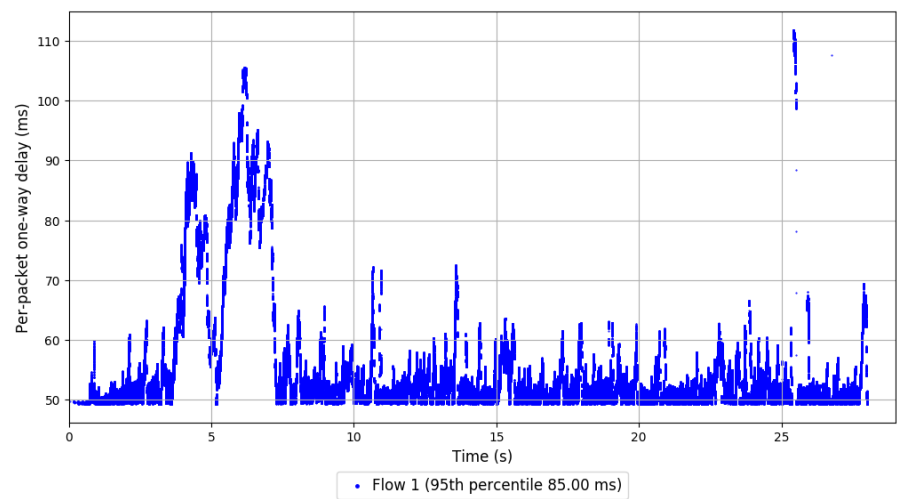
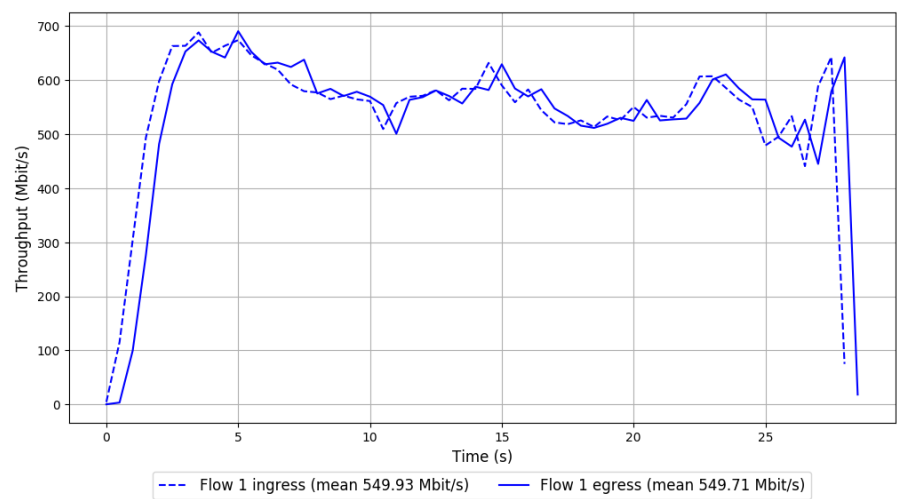


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-06-28 16:04:06
End at: 2019-06-28 16:04:36
Local clock offset: 0.062 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2019-06-28 18:26:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 549.71 Mbit/s
95th percentile per-packet one-way delay: 85.003 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 549.71 Mbit/s
95th percentile per-packet one-way delay: 85.003 ms
Loss rate: 0.39%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-06-28 16:35:44

End at: 2019-06-28 16:36:14

Local clock offset: 0.099 ms

Remote clock offset: -0.06 ms

Below is generated by plot.py at 2019-06-28 18:26:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 558.11 Mbit/s

95th percentile per-packet one-way delay: 65.452 ms

Loss rate: 0.59%

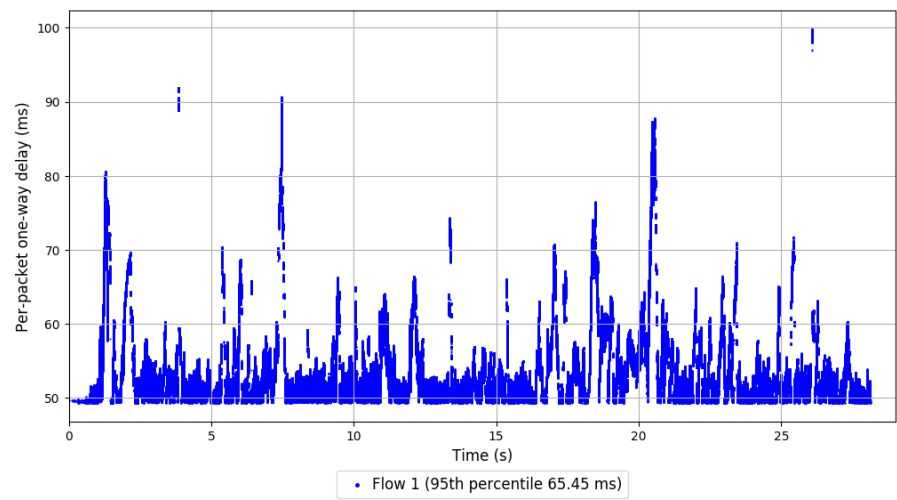
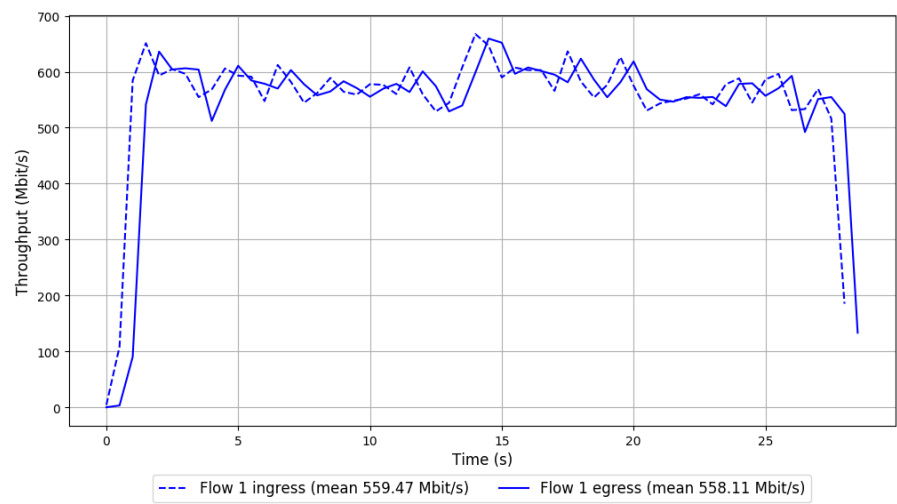
-- Flow 1:

Average throughput: 558.11 Mbit/s

95th percentile per-packet one-way delay: 65.452 ms

Loss rate: 0.59%

Run 4: Report of Indigo-MusesC3 — Data Link

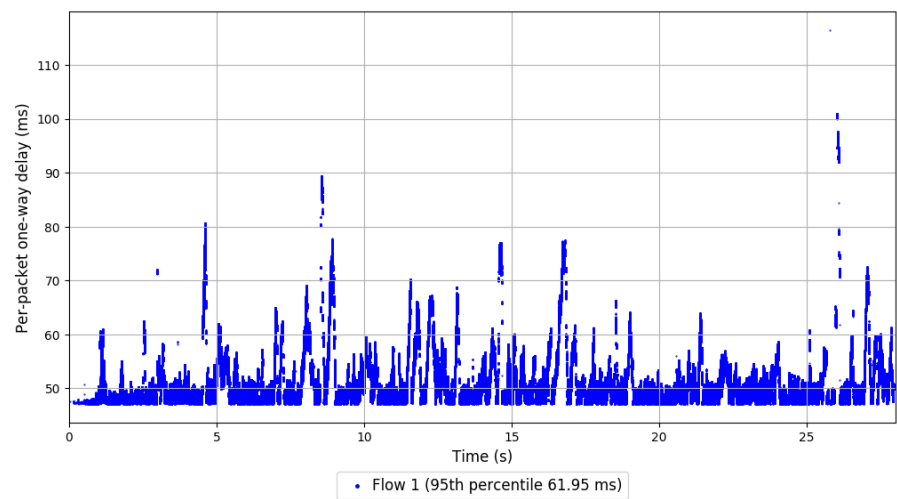
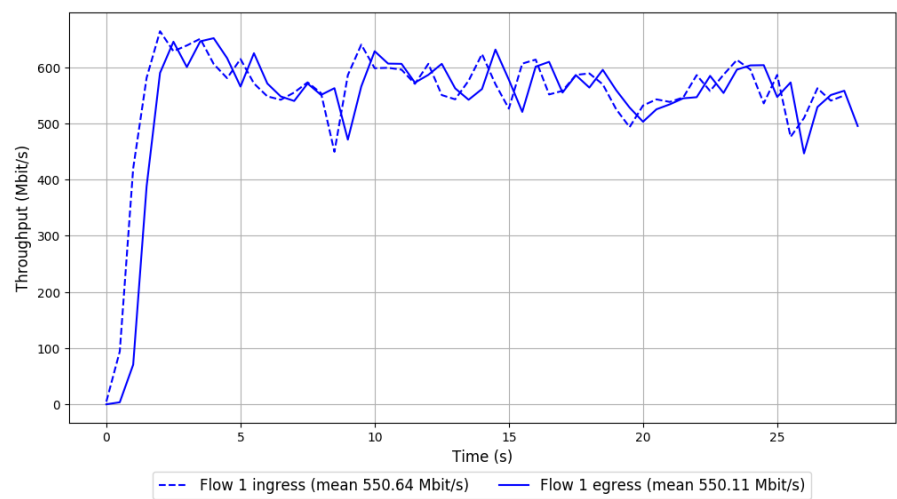


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-06-28 17:06:48
End at: 2019-06-28 17:07:18
Local clock offset: 0.048 ms
Remote clock offset: -0.072 ms

Below is generated by plot.py at 2019-06-28 18:29:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 550.11 Mbit/s
95th percentile per-packet one-way delay: 61.946 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 550.11 Mbit/s
95th percentile per-packet one-way delay: 61.946 ms
Loss rate: 0.44%

Run 5: Report of Indigo-MusesC3 — Data Link

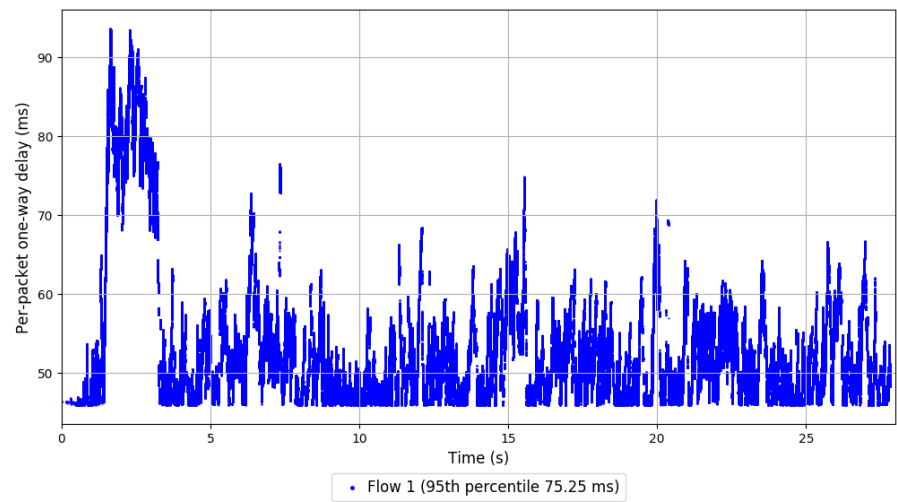
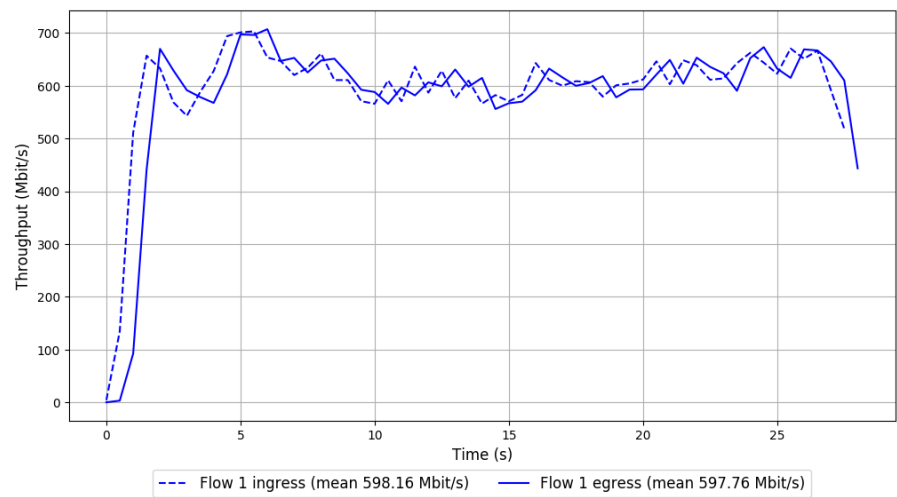


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-06-28 14:54:01
End at: 2019-06-28 14:54:31
Local clock offset: -0.464 ms
Remote clock offset: -0.114 ms

Below is generated by plot.py at 2019-06-28 18:31:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 597.76 Mbit/s
95th percentile per-packet one-way delay: 75.248 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 597.76 Mbit/s
95th percentile per-packet one-way delay: 75.248 ms
Loss rate: 0.41%

Run 1: Report of Indigo-MusesC5 — Data Link

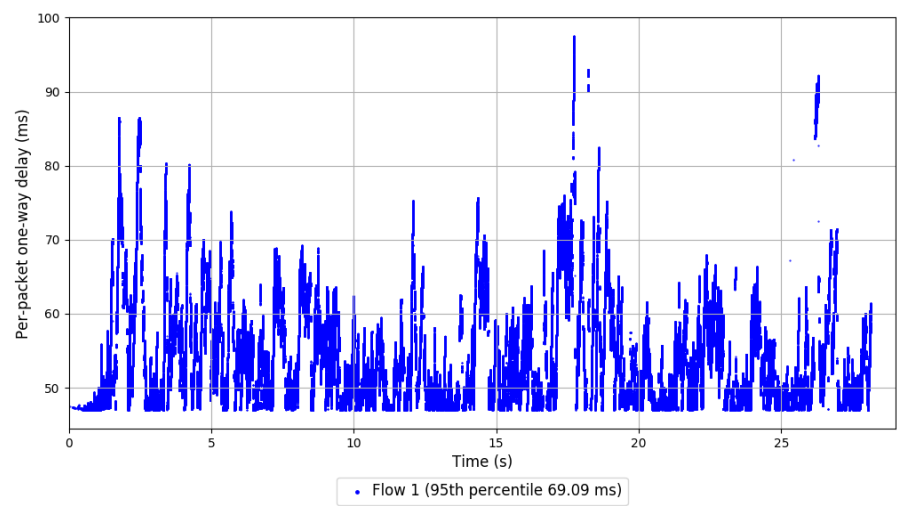
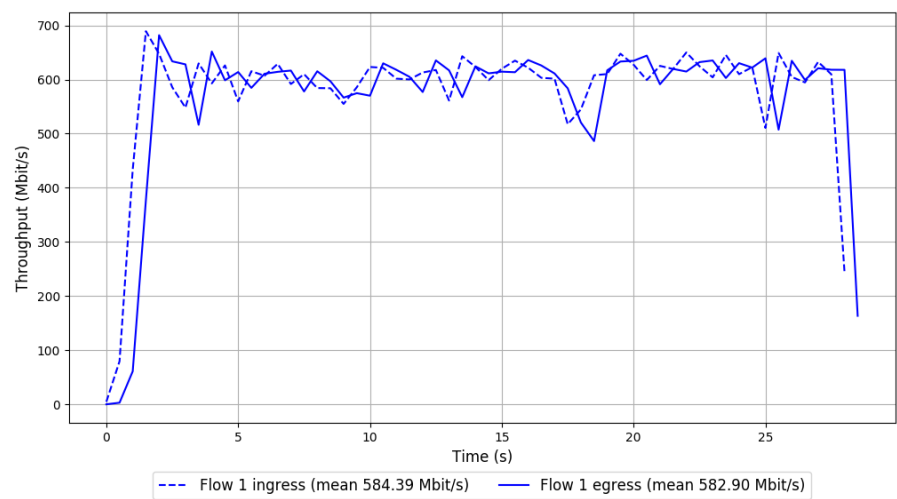


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-06-28 15:25:29
End at: 2019-06-28 15:25:59
Local clock offset: -0.105 ms
Remote clock offset: -0.137 ms

Below is generated by plot.py at 2019-06-28 18:34:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 582.90 Mbit/s
95th percentile per-packet one-way delay: 69.090 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 582.90 Mbit/s
95th percentile per-packet one-way delay: 69.090 ms
Loss rate: 0.60%

Run 2: Report of Indigo-MusesC5 — Data Link

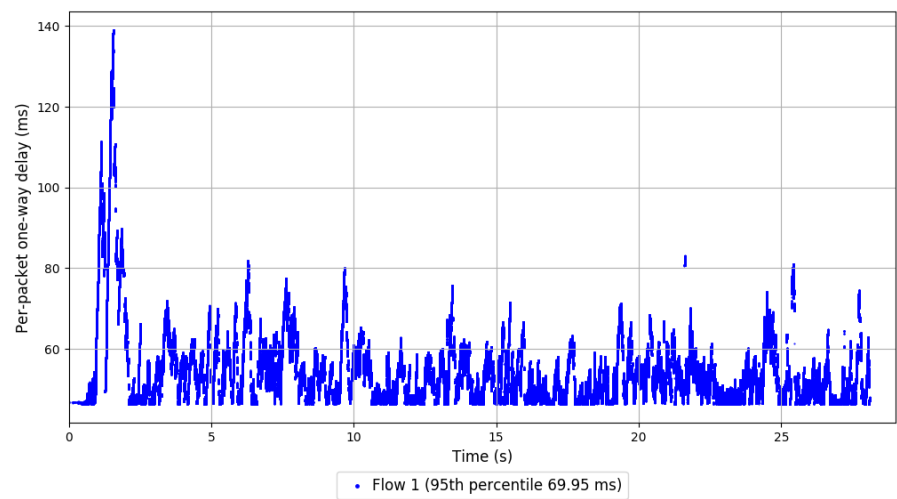
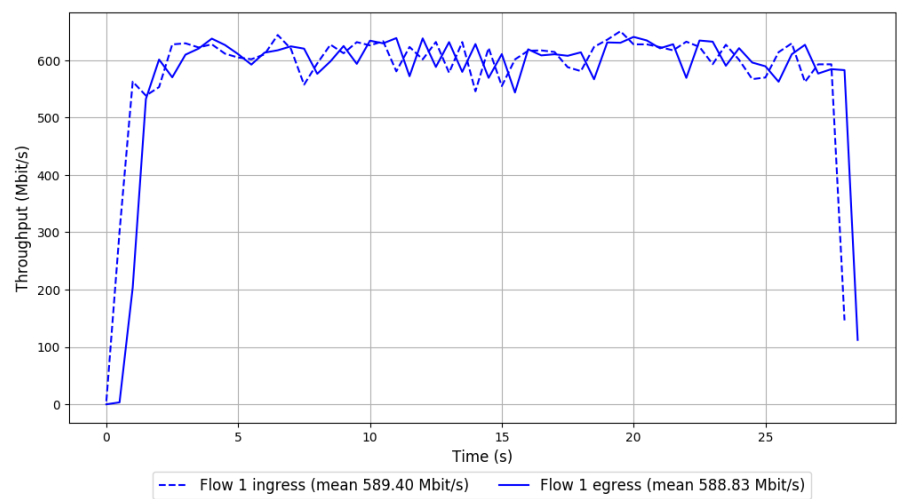


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-06-28 15:57:00
End at: 2019-06-28 15:57:30
Local clock offset: 0.051 ms
Remote clock offset: -0.054 ms

Below is generated by plot.py at 2019-06-28 18:34:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 588.83 Mbit/s
95th percentile per-packet one-way delay: 69.951 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 588.83 Mbit/s
95th percentile per-packet one-way delay: 69.951 ms
Loss rate: 0.44%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-06-28 16:28:44

End at: 2019-06-28 16:29:14

Local clock offset: 0.08 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2019-06-28 18:34:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 586.01 Mbit/s

95th percentile per-packet one-way delay: 75.491 ms

Loss rate: 0.37%

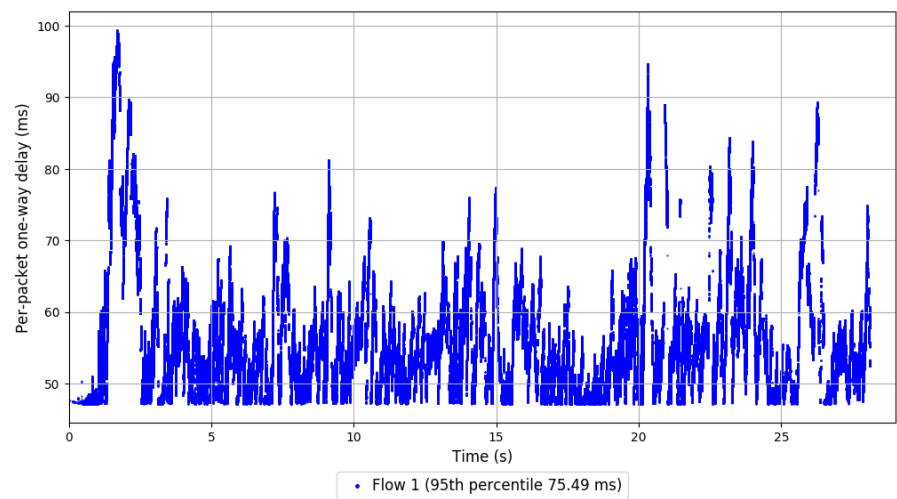
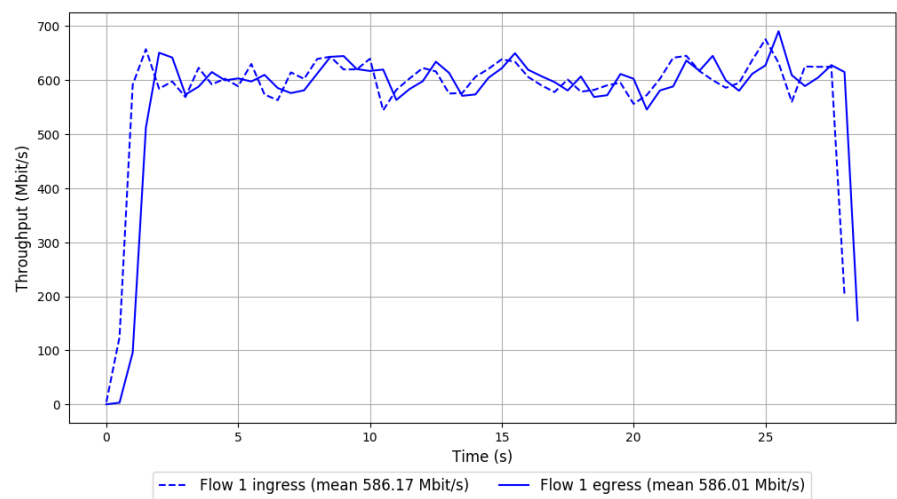
-- Flow 1:

Average throughput: 586.01 Mbit/s

95th percentile per-packet one-way delay: 75.491 ms

Loss rate: 0.37%

Run 4: Report of Indigo-MusesC5 — Data Link

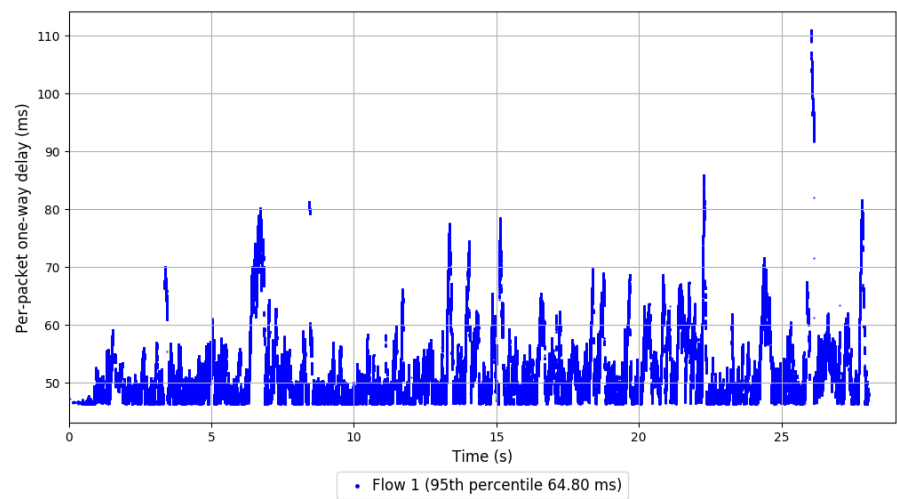
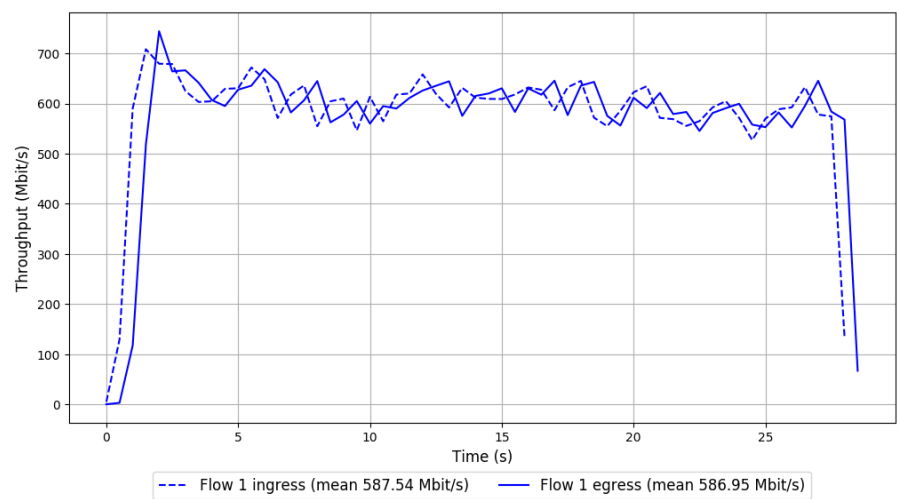


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-06-28 16:59:43
End at: 2019-06-28 17:00:13
Local clock offset: 0.065 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2019-06-28 18:36:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 586.95 Mbit/s
95th percentile per-packet one-way delay: 64.798 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 586.95 Mbit/s
95th percentile per-packet one-way delay: 64.798 ms
Loss rate: 0.44%

Run 5: Report of Indigo-MusesC5 — Data Link

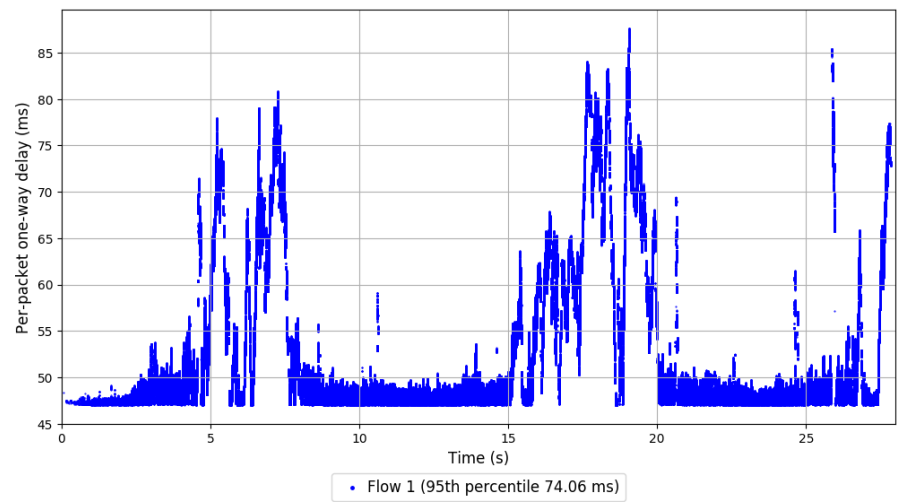
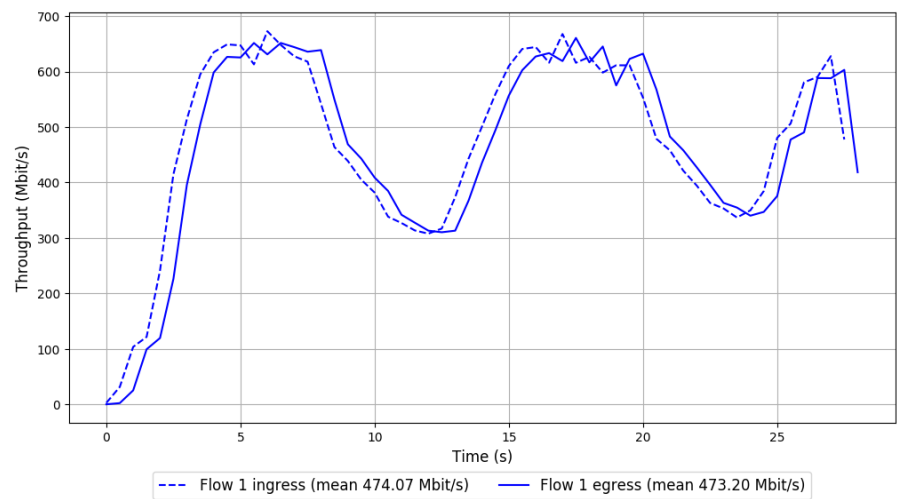


```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-06-28 15:17:54
End at: 2019-06-28 15:18:24
Local clock offset: -0.09 ms
Remote clock offset: -0.129 ms

# Below is generated by plot.py at 2019-06-28 18:36:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 473.20 Mbit/s
95th percentile per-packet one-way delay: 74.063 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 473.20 Mbit/s
95th percentile per-packet one-way delay: 74.063 ms
Loss rate: 0.53%
```

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-06-28 15:49:26

End at: 2019-06-28 15:49:56

Local clock offset: -0.02 ms

Remote clock offset: -0.082 ms

Below is generated by plot.py at 2019-06-28 18:36:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 455.58 Mbit/s

95th percentile per-packet one-way delay: 69.893 ms

Loss rate: 0.47%

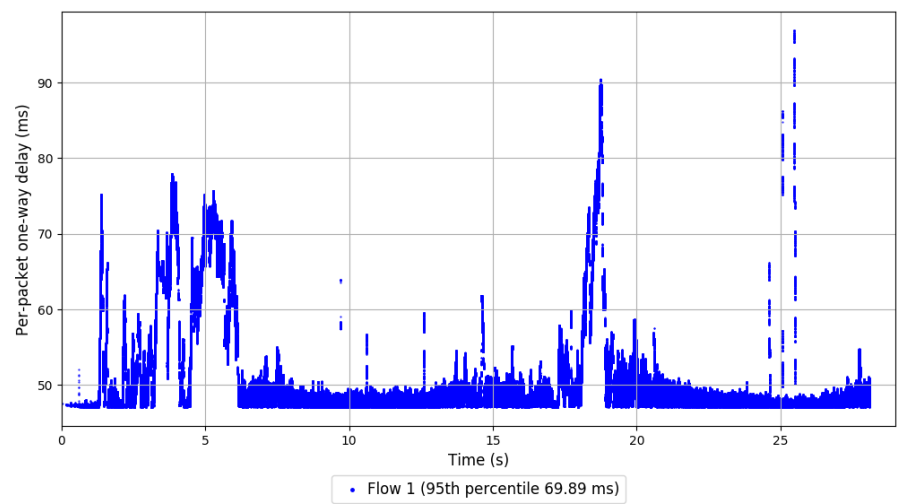
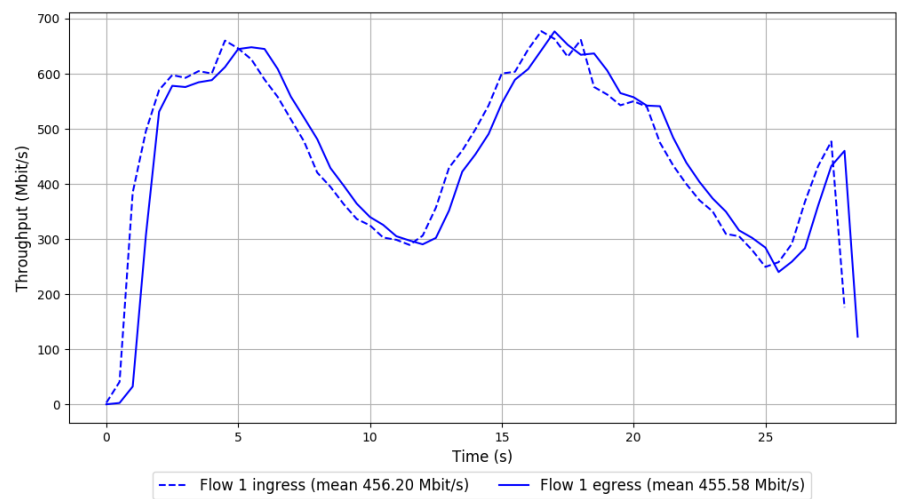
-- Flow 1:

Average throughput: 455.58 Mbit/s

95th percentile per-packet one-way delay: 69.893 ms

Loss rate: 0.47%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-06-28 16:21:09

End at: 2019-06-28 16:21:39

Local clock offset: 0.003 ms

Remote clock offset: -0.039 ms

Below is generated by plot.py at 2019-06-28 18:38:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 485.46 Mbit/s

95th percentile per-packet one-way delay: 82.591 ms

Loss rate: 0.37%

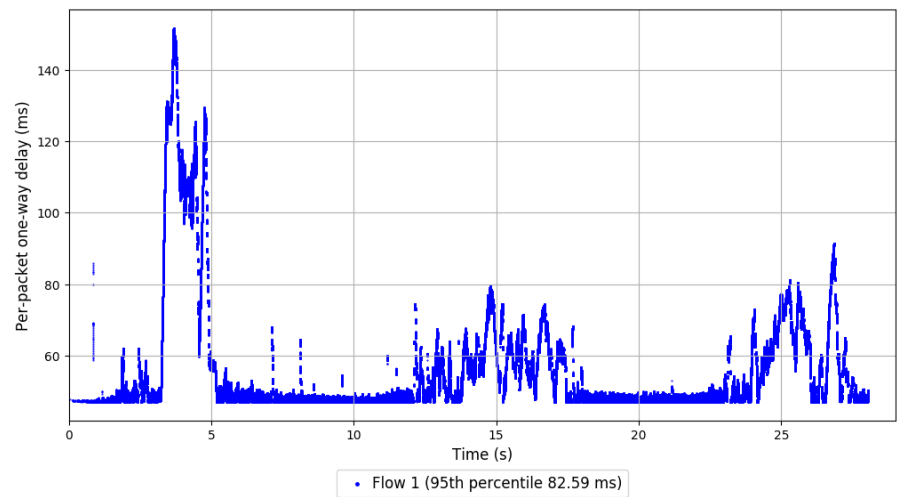
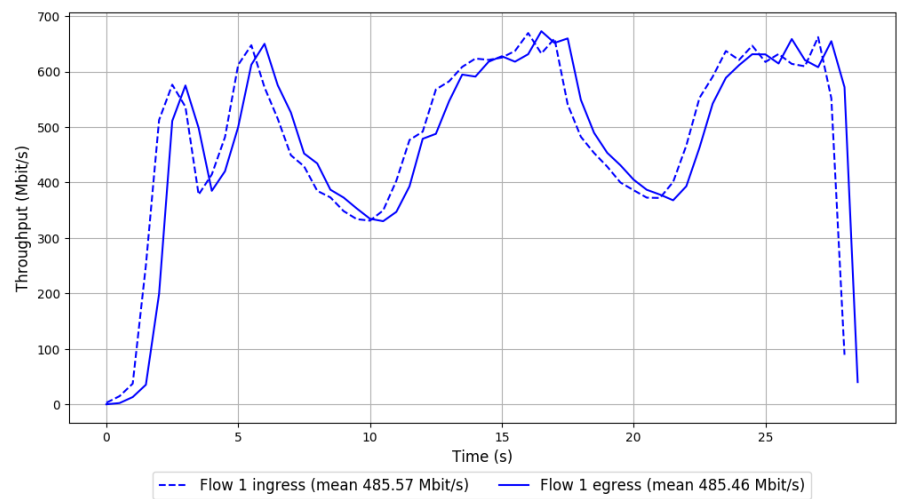
-- Flow 1:

Average throughput: 485.46 Mbit/s

95th percentile per-packet one-way delay: 82.591 ms

Loss rate: 0.37%

Run 3: Report of Indigo-MusesD — Data Link

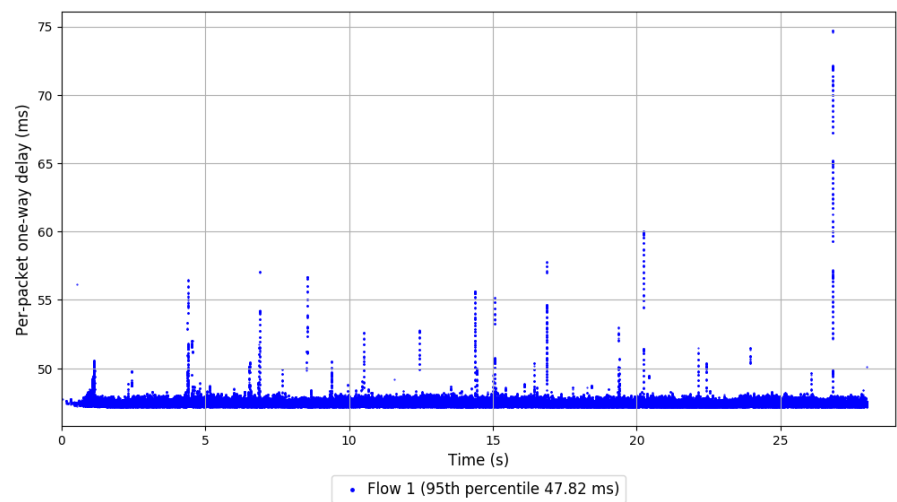
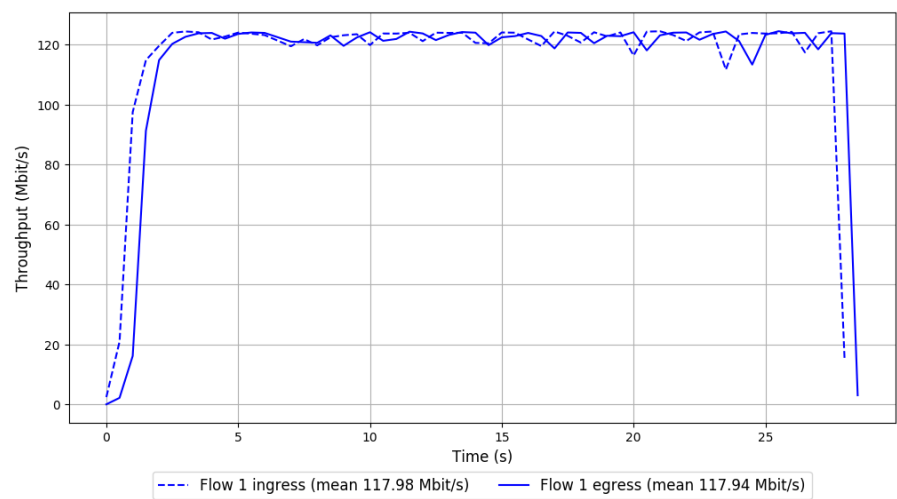


Run 4: Statistics of Indigo-MusesD

Start at: 2019-06-28 16:52:27
End at: 2019-06-28 16:52:57
Local clock offset: 0.08 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2019-06-28 18:38:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 117.94 Mbit/s
95th percentile per-packet one-way delay: 47.821 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 117.94 Mbit/s
95th percentile per-packet one-way delay: 47.821 ms
Loss rate: 0.37%

Run 4: Report of Indigo-MusesD — Data Link

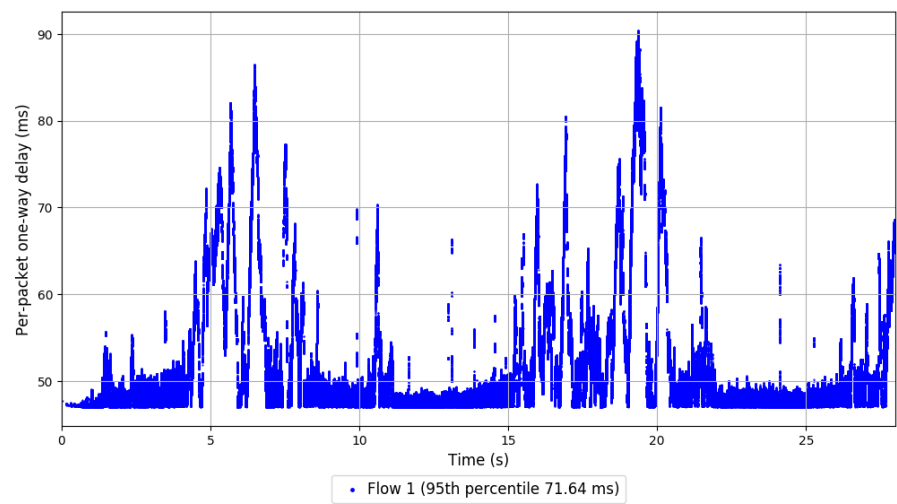
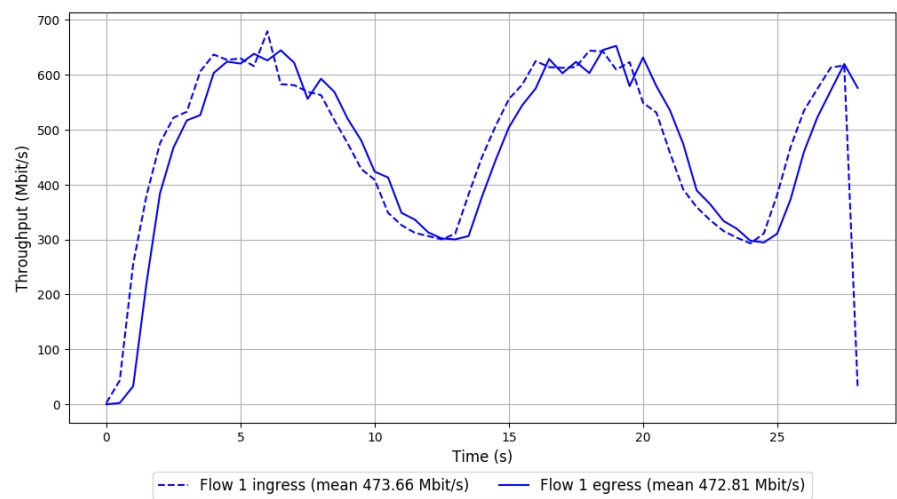


Run 5: Statistics of Indigo-MusesD

Start at: 2019-06-28 17:23:41
End at: 2019-06-28 17:24:11
Local clock offset: -0.048 ms
Remote clock offset: -0.049 ms

Below is generated by plot.py at 2019-06-28 18:41:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 472.81 Mbit/s
95th percentile per-packet one-way delay: 71.638 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 472.81 Mbit/s
95th percentile per-packet one-way delay: 71.638 ms
Loss rate: 0.52%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-06-28 14:52:26

End at: 2019-06-28 14:52:56

Local clock offset: -0.083 ms

Remote clock offset: -0.076 ms

Below is generated by plot.py at 2019-06-28 18:44:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 607.48 Mbit/s

95th percentile per-packet one-way delay: 94.240 ms

Loss rate: 0.48%

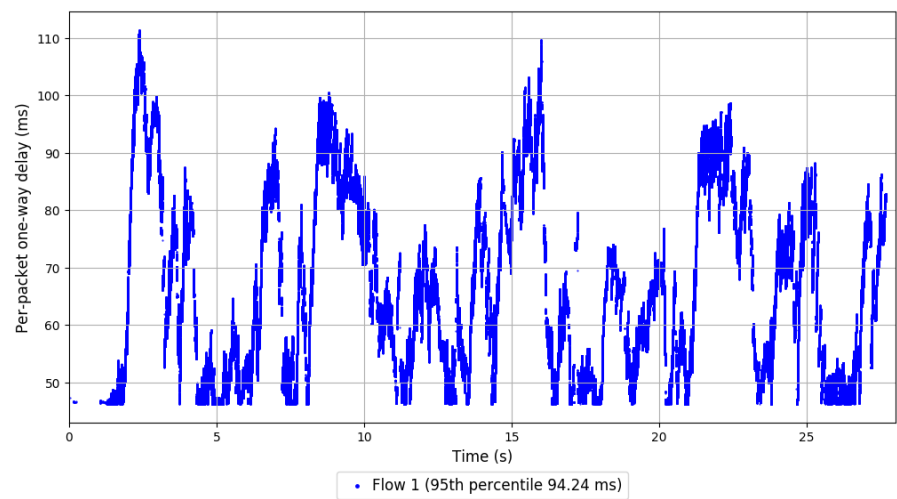
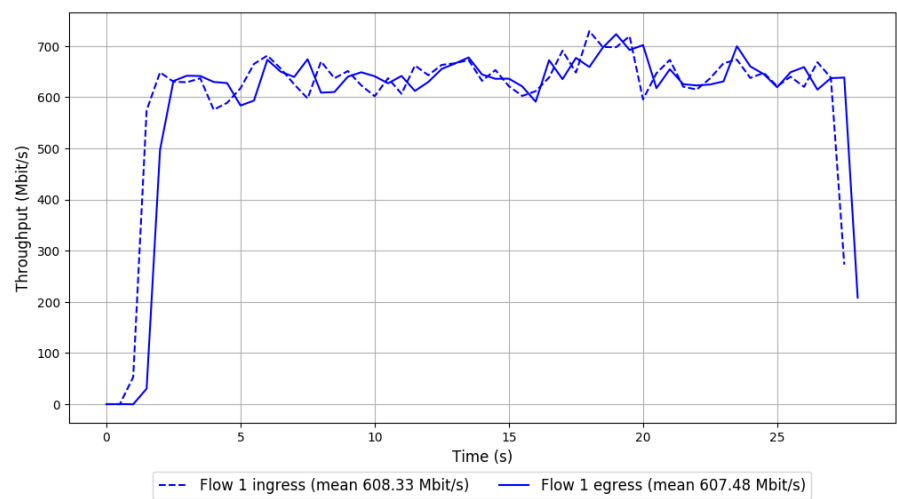
-- Flow 1:

Average throughput: 607.48 Mbit/s

95th percentile per-packet one-way delay: 94.240 ms

Loss rate: 0.48%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-06-28 15:23:54

End at: 2019-06-28 15:24:24

Local clock offset: -0.085 ms

Remote clock offset: -0.156 ms

Below is generated by plot.py at 2019-06-28 18:45:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 608.98 Mbit/s

95th percentile per-packet one-way delay: 99.329 ms

Loss rate: 0.45%

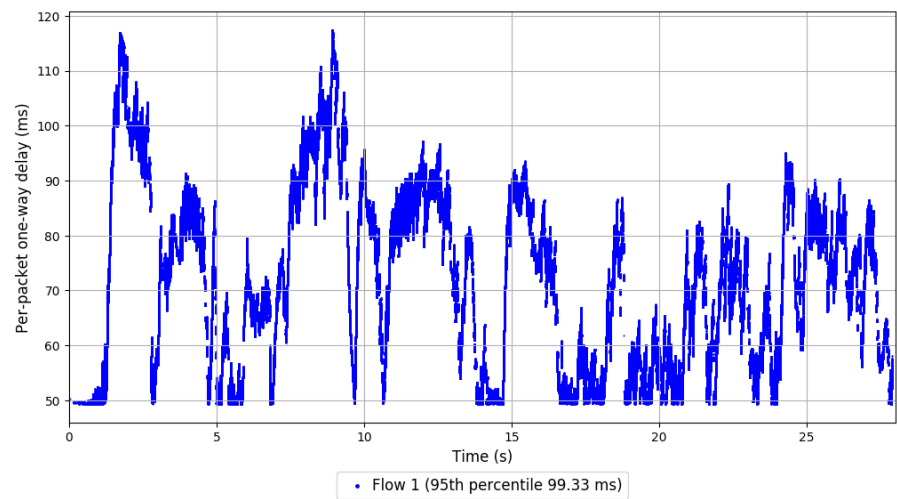
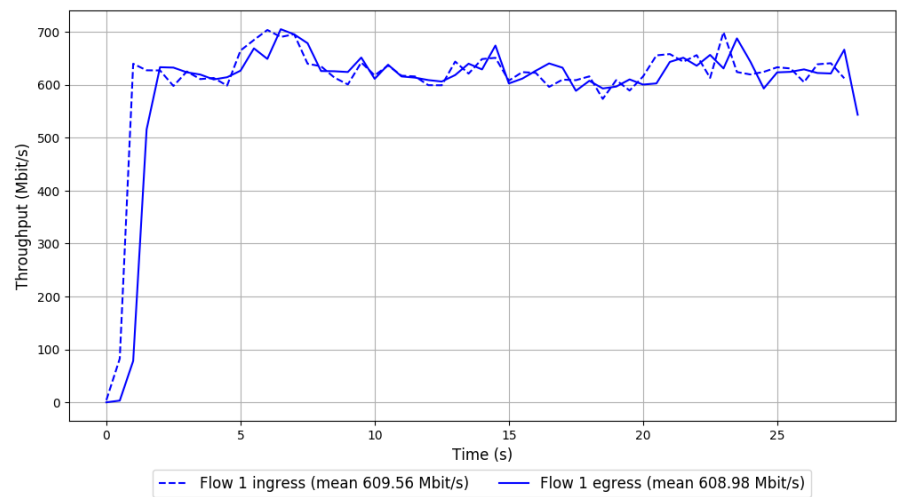
-- Flow 1:

Average throughput: 608.98 Mbit/s

95th percentile per-packet one-way delay: 99.329 ms

Loss rate: 0.45%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-06-28 15:55:24

End at: 2019-06-28 15:55:54

Local clock offset: 0.01 ms

Remote clock offset: -0.019 ms

Below is generated by plot.py at 2019-06-28 18:45:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 615.71 Mbit/s

95th percentile per-packet one-way delay: 85.794 ms

Loss rate: 0.55%

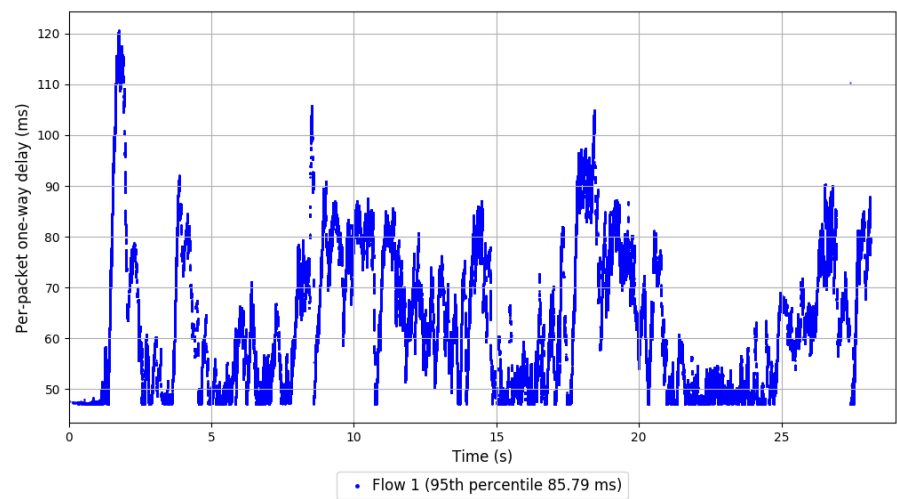
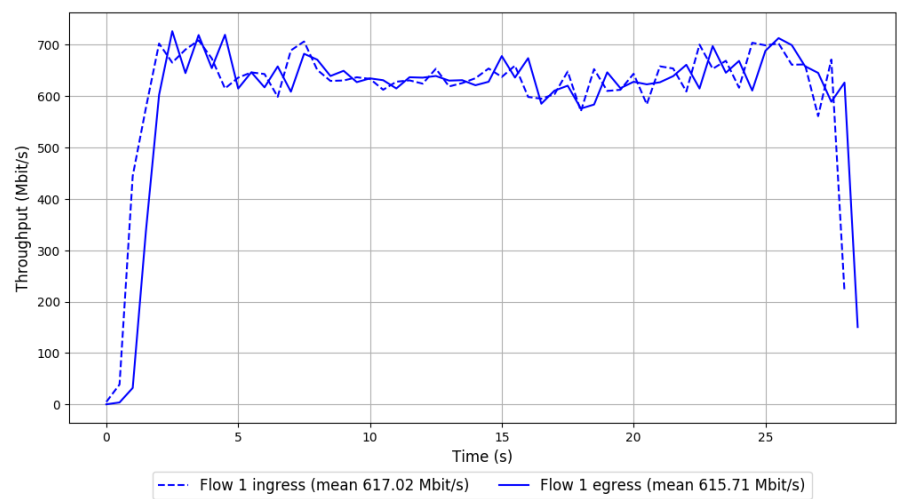
-- Flow 1:

Average throughput: 615.71 Mbit/s

95th percentile per-packet one-way delay: 85.794 ms

Loss rate: 0.55%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-06-28 16:27:09

End at: 2019-06-28 16:27:39

Local clock offset: 0.059 ms

Remote clock offset: -0.059 ms

Below is generated by plot.py at 2019-06-28 18:45:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 587.16 Mbit/s

95th percentile per-packet one-way delay: 87.414 ms

Loss rate: 0.40%

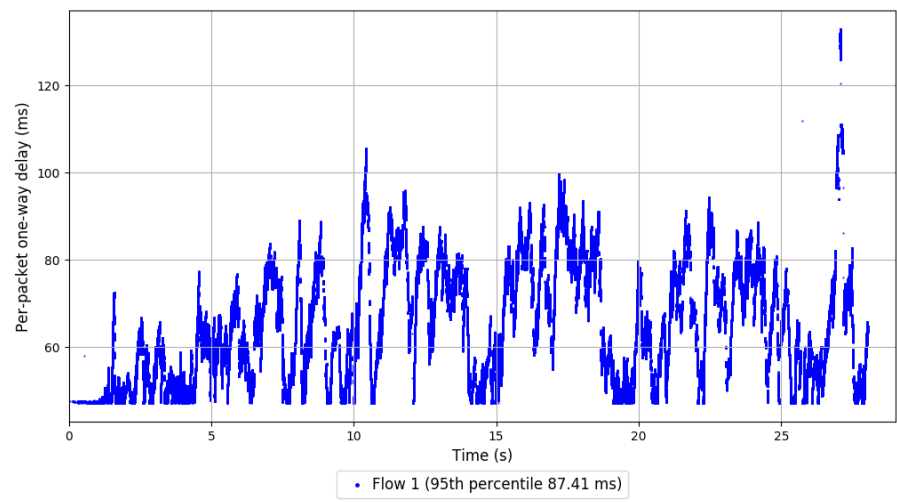
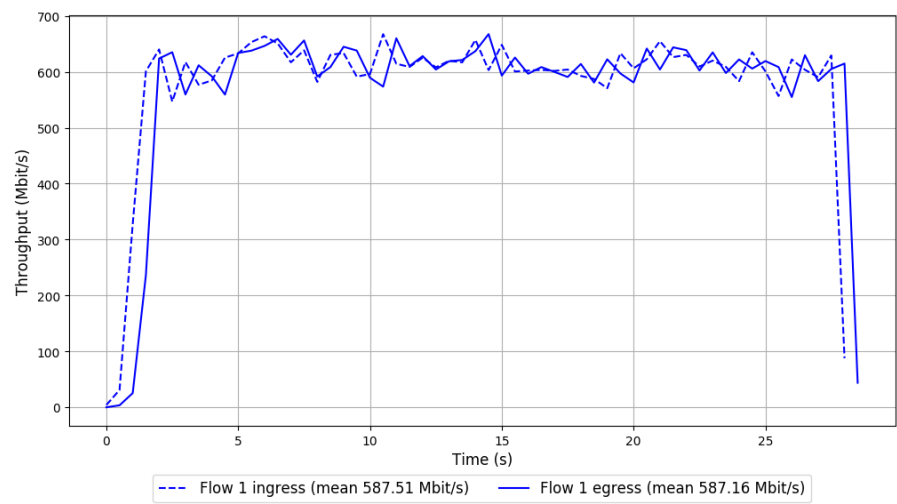
-- Flow 1:

Average throughput: 587.16 Mbit/s

95th percentile per-packet one-way delay: 87.414 ms

Loss rate: 0.40%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-06-28 16:58:09

End at: 2019-06-28 16:58:39

Local clock offset: -0.29 ms

Remote clock offset: -0.087 ms

Below is generated by plot.py at 2019-06-28 18:45:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 588.86 Mbit/s

95th percentile per-packet one-way delay: 91.876 ms

Loss rate: 0.59%

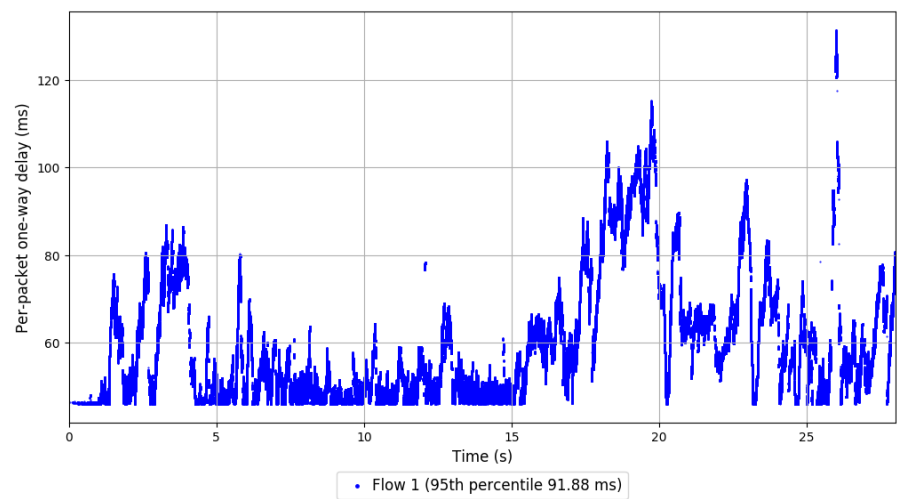
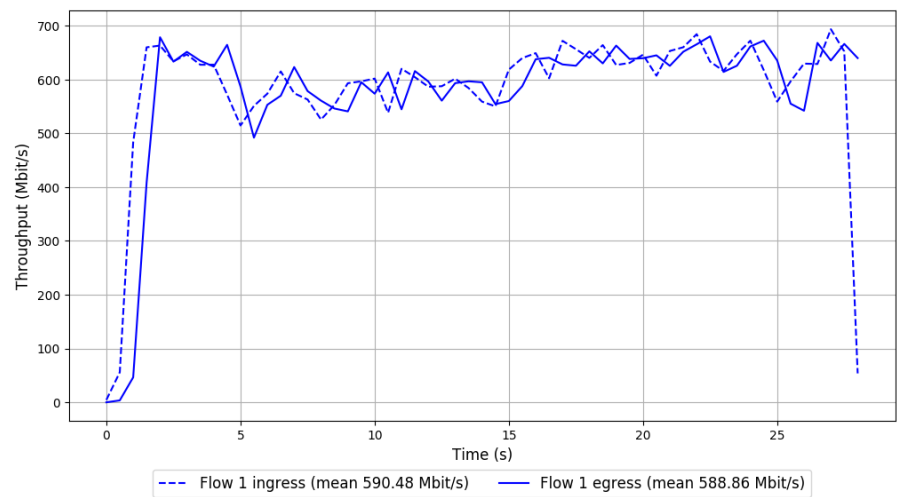
-- Flow 1:

Average throughput: 588.86 Mbit/s

95th percentile per-packet one-way delay: 91.876 ms

Loss rate: 0.59%

Run 5: Report of Indigo-MusesT — Data Link

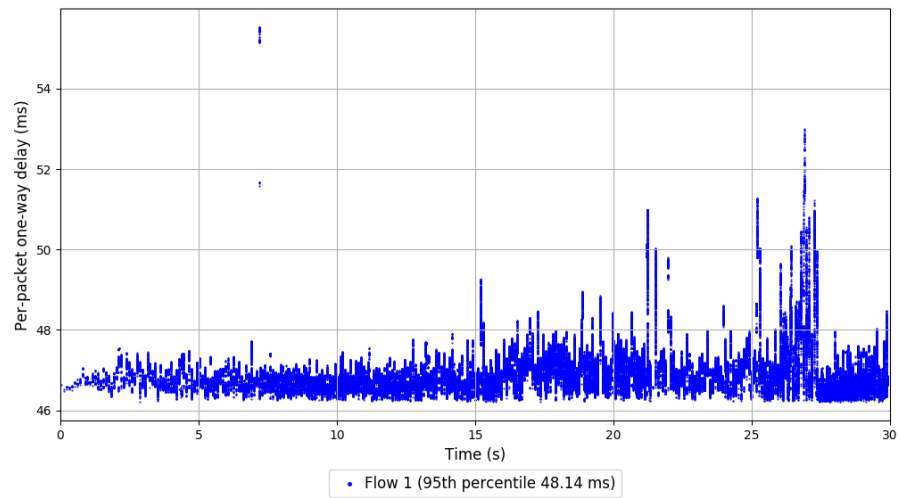
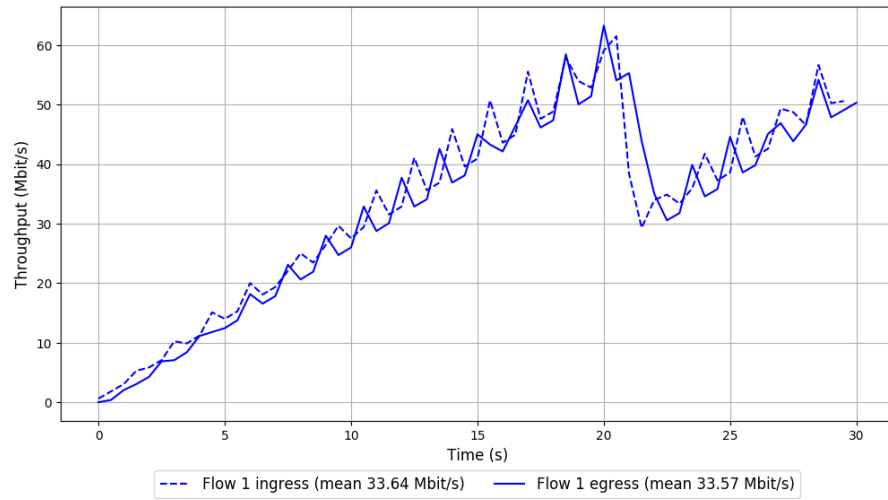


Run 1: Statistics of LEDBAT

Start at: 2019-06-28 15:06:38
End at: 2019-06-28 15:07:08
Local clock offset: -0.077 ms
Remote clock offset: -0.087 ms

Below is generated by plot.py at 2019-06-28 18:45:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 33.57 Mbit/s
95th percentile per-packet one-way delay: 48.139 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 33.57 Mbit/s
95th percentile per-packet one-way delay: 48.139 ms
Loss rate: 0.51%

Run 1: Report of LEDBAT — Data Link

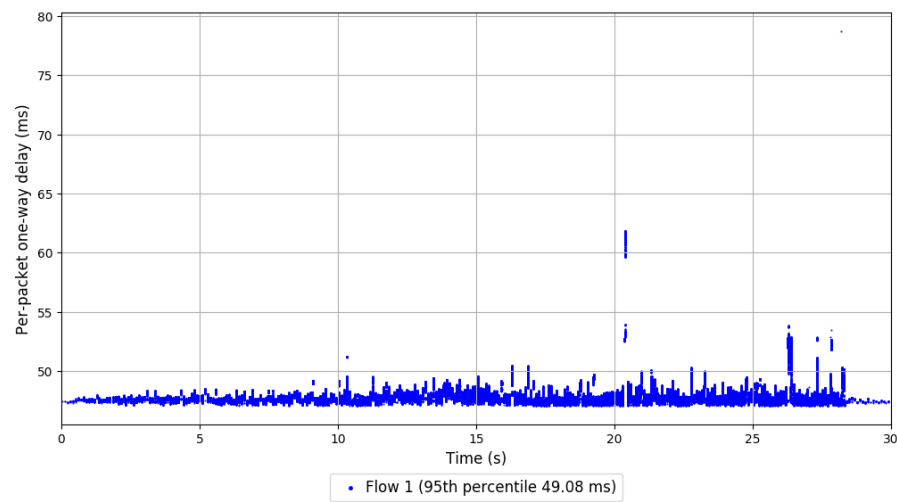
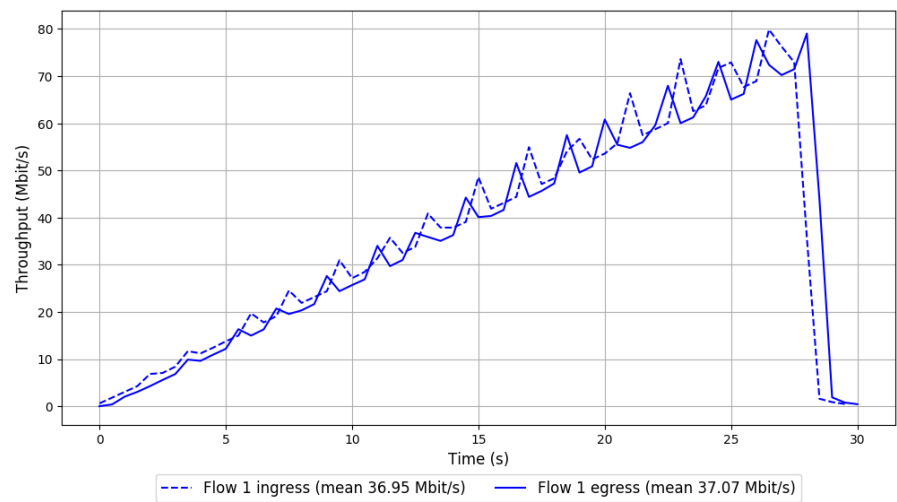


Run 2: Statistics of LEDBAT

Start at: 2019-06-28 15:38:18
End at: 2019-06-28 15:38:49
Local clock offset: -0.047 ms
Remote clock offset: -0.193 ms

Below is generated by plot.py at 2019-06-28 18:45:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 37.07 Mbit/s
95th percentile per-packet one-way delay: 49.078 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 37.07 Mbit/s
95th percentile per-packet one-way delay: 49.078 ms
Loss rate: 0.01%

Run 2: Report of LEDBAT — Data Link

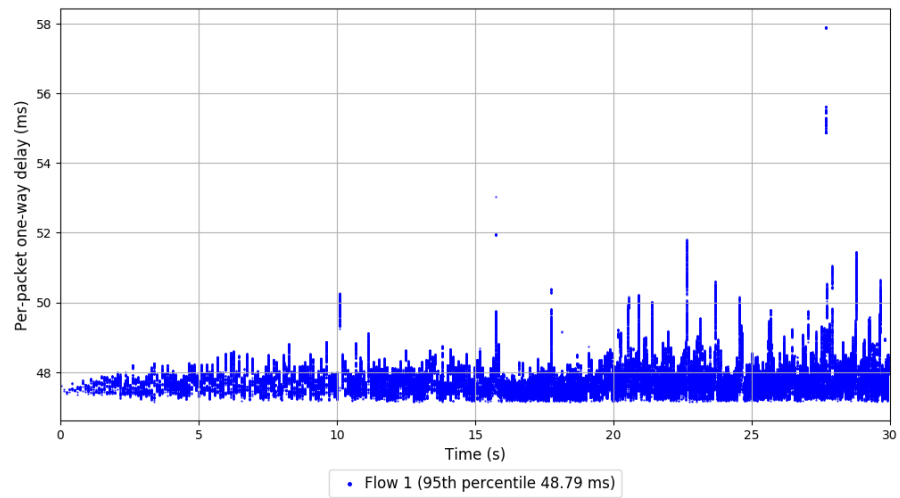
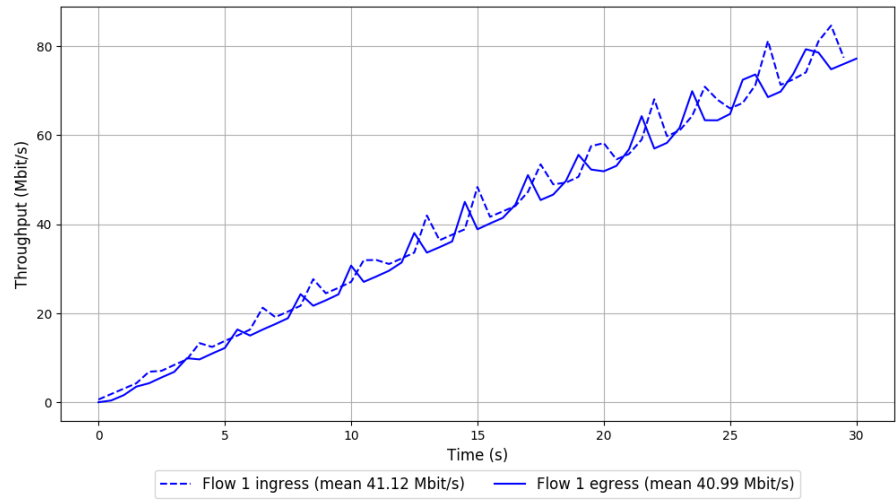


Run 3: Statistics of LEDBAT

Start at: 2019-06-28 16:09:51
End at: 2019-06-28 16:10:21
Local clock offset: 0.076 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2019-06-28 18:45:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 40.99 Mbit/s
95th percentile per-packet one-way delay: 48.788 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 40.99 Mbit/s
95th percentile per-packet one-way delay: 48.788 ms
Loss rate: 0.63%

Run 3: Report of LEDBAT — Data Link

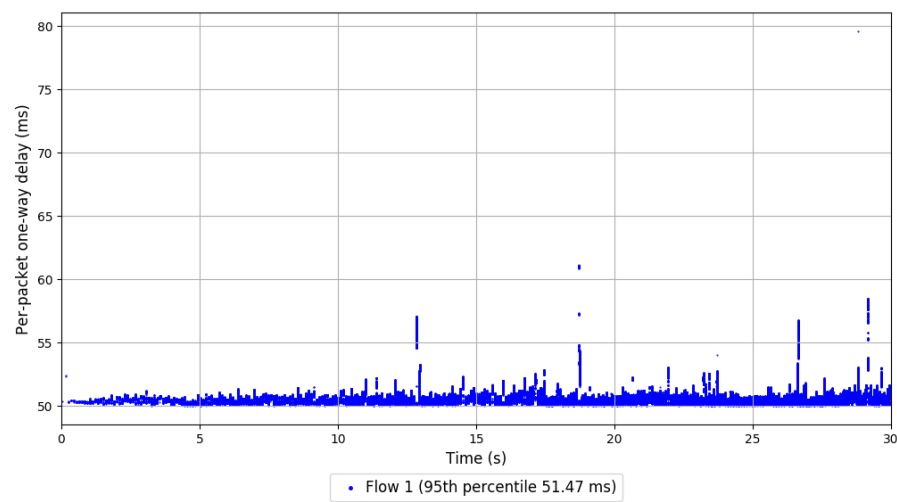
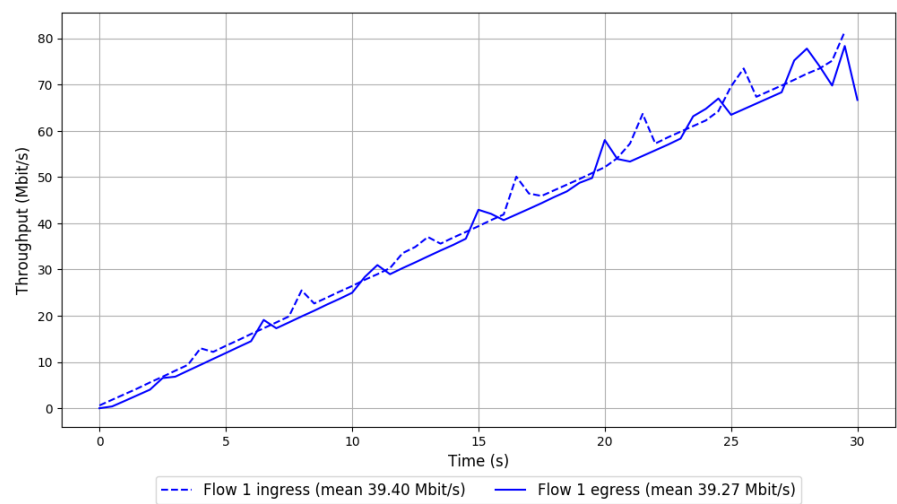


Run 4: Statistics of LEDBAT

Start at: 2019-06-28 16:41:23
End at: 2019-06-28 16:41:53
Local clock offset: 0.122 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2019-06-28 18:45:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 39.27 Mbit/s
95th percentile per-packet one-way delay: 51.470 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 39.27 Mbit/s
95th percentile per-packet one-way delay: 51.470 ms
Loss rate: 0.65%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-06-28 17:12:25

End at: 2019-06-28 17:12:55

Local clock offset: 0.402 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2019-06-28 18:45:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.54 Mbit/s

95th percentile per-packet one-way delay: 48.633 ms

Loss rate: 0.63%

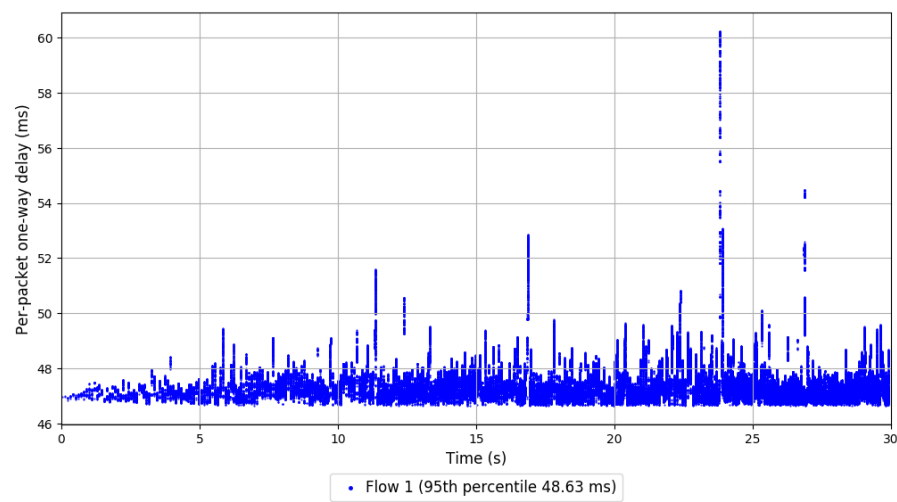
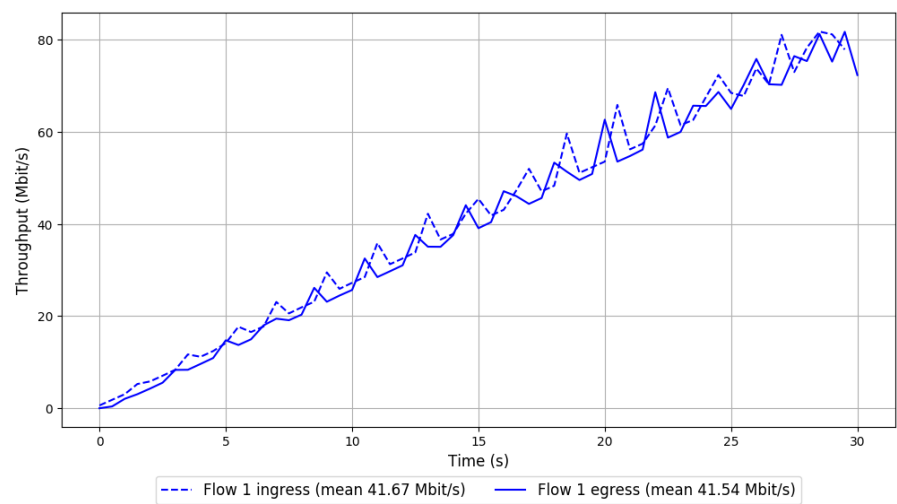
-- Flow 1:

Average throughput: 41.54 Mbit/s

95th percentile per-packet one-way delay: 48.633 ms

Loss rate: 0.63%

Run 5: Report of LEDBAT — Data Link

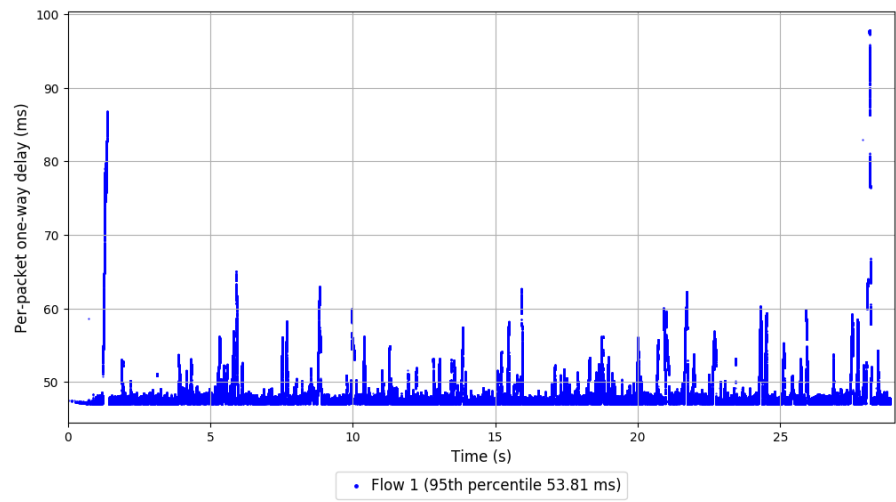
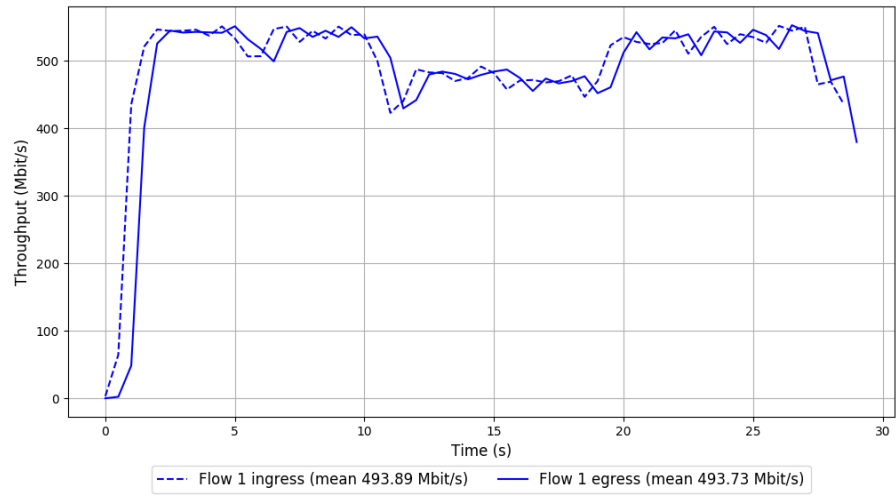


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-06-28 15:09:16
End at: 2019-06-28 15:09:46
Local clock offset: -0.089 ms
Remote clock offset: -0.141 ms

# Below is generated by plot.py at 2019-06-28 18:49:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 493.73 Mbit/s
95th percentile per-packet one-way delay: 53.812 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 493.73 Mbit/s
95th percentile per-packet one-way delay: 53.812 ms
Loss rate: 0.36%
```

Run 1: Report of Muses_DecisionTree — Data Link

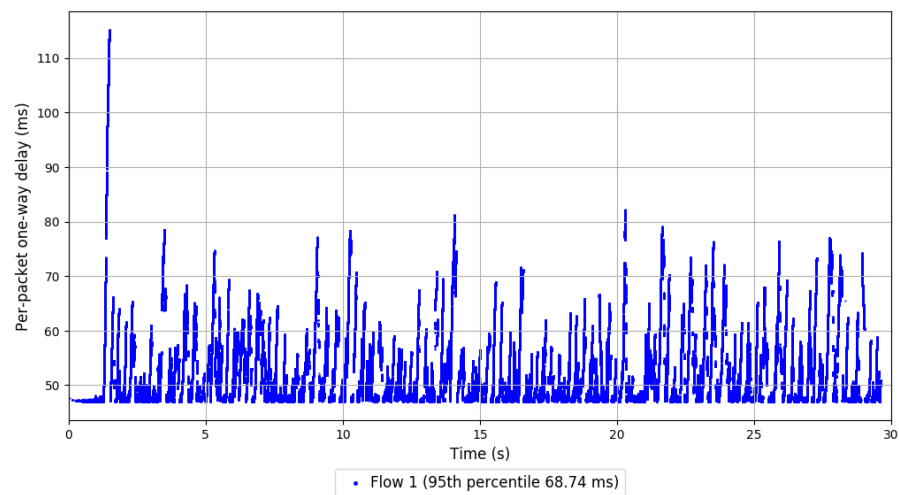
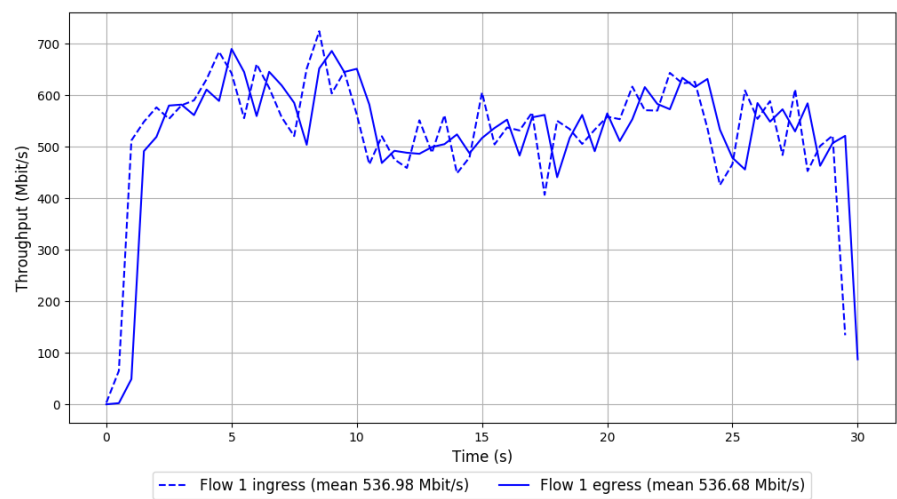


Run 2: Statistics of Muses_DecisionTree

Start at: 2019-06-28 15:40:58
End at: 2019-06-28 15:41:28
Local clock offset: -0.074 ms
Remote clock offset: -0.139 ms

Below is generated by plot.py at 2019-06-28 18:51:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 536.68 Mbit/s
95th percentile per-packet one-way delay: 68.744 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 536.68 Mbit/s
95th percentile per-packet one-way delay: 68.744 ms
Loss rate: 0.28%

Run 2: Report of Muses_DecisionTree — Data Link

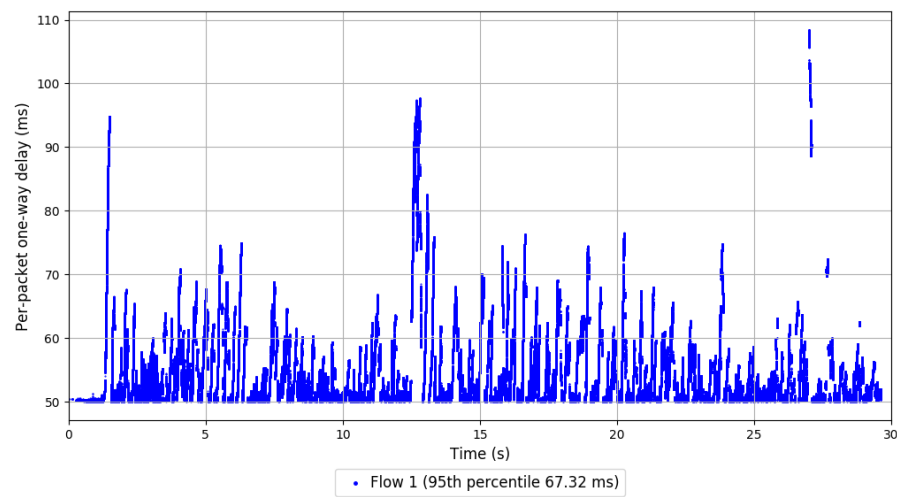
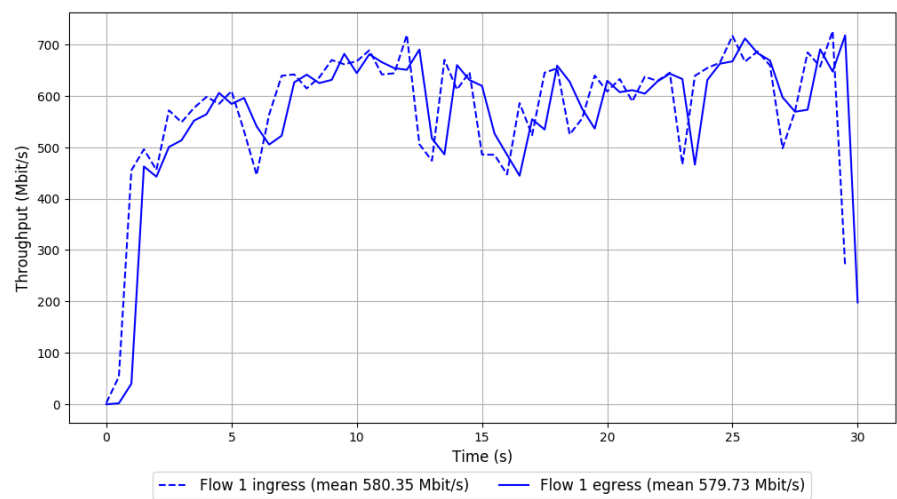


Run 3: Statistics of Muses_DecisionTree

Start at: 2019-06-28 16:12:33
End at: 2019-06-28 16:13:03
Local clock offset: 0.06 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2019-06-28 18:52:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 579.73 Mbit/s
95th percentile per-packet one-way delay: 67.316 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 579.73 Mbit/s
95th percentile per-packet one-way delay: 67.316 ms
Loss rate: 0.44%

Run 3: Report of Muses_DecisionTree — Data Link

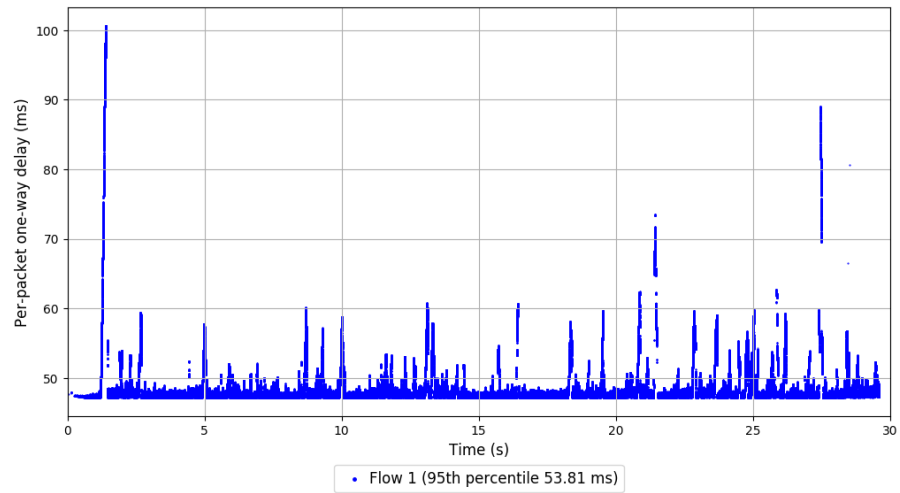
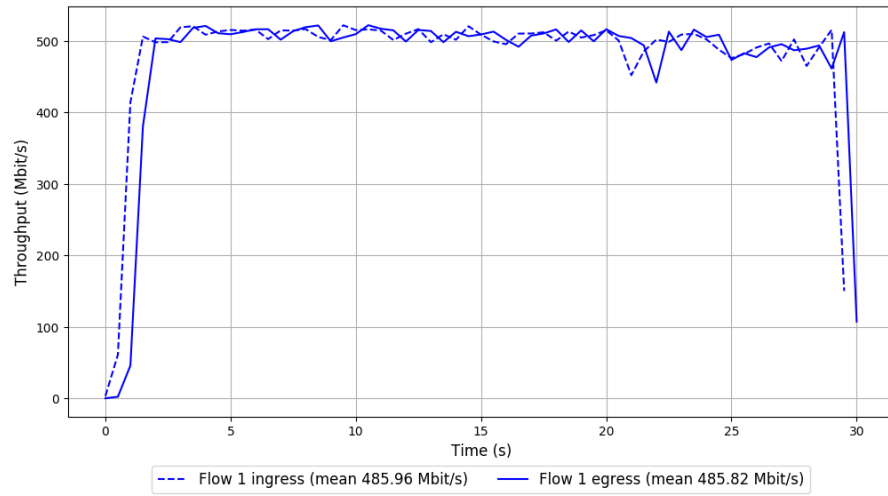


Run 4: Statistics of Muses_DecisionTree

Start at: 2019-06-28 16:43:57
End at: 2019-06-28 16:44:27
Local clock offset: 0.115 ms
Remote clock offset: -0.067 ms

Below is generated by plot.py at 2019-06-28 18:52:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 485.82 Mbit/s
95th percentile per-packet one-way delay: 53.812 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 485.82 Mbit/s
95th percentile per-packet one-way delay: 53.812 ms
Loss rate: 0.35%

Run 4: Report of Muses_DecisionTree — Data Link

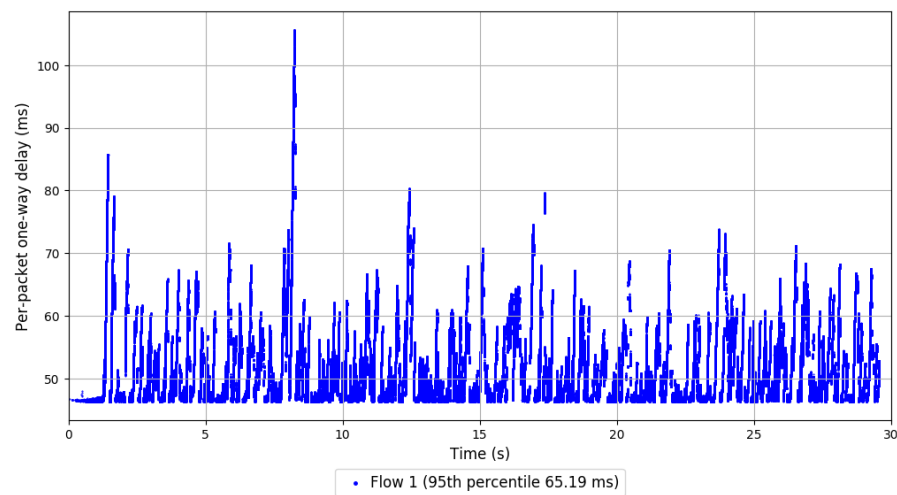
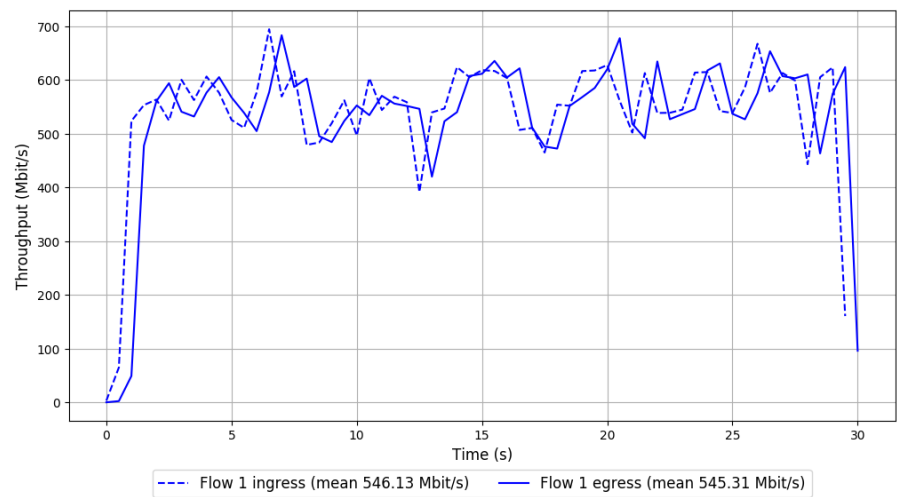


Run 5: Statistics of Muses_DecisionTree

Start at: 2019-06-28 17:15:05
End at: 2019-06-28 17:15:35
Local clock offset: 0.005 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2019-06-28 18:55:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 545.31 Mbit/s
95th percentile per-packet one-way delay: 65.192 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 545.31 Mbit/s
95th percentile per-packet one-way delay: 65.192 ms
Loss rate: 0.47%

Run 5: Report of Muses_DecisionTree — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-06-28 15:03:42

End at: 2019-06-28 15:04:12

Local clock offset: -0.093 ms

Remote clock offset: -0.149 ms

Below is generated by plot.py at 2019-06-28 18:57:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 360.53 Mbit/s

95th percentile per-packet one-way delay: 67.544 ms

Loss rate: 0.46%

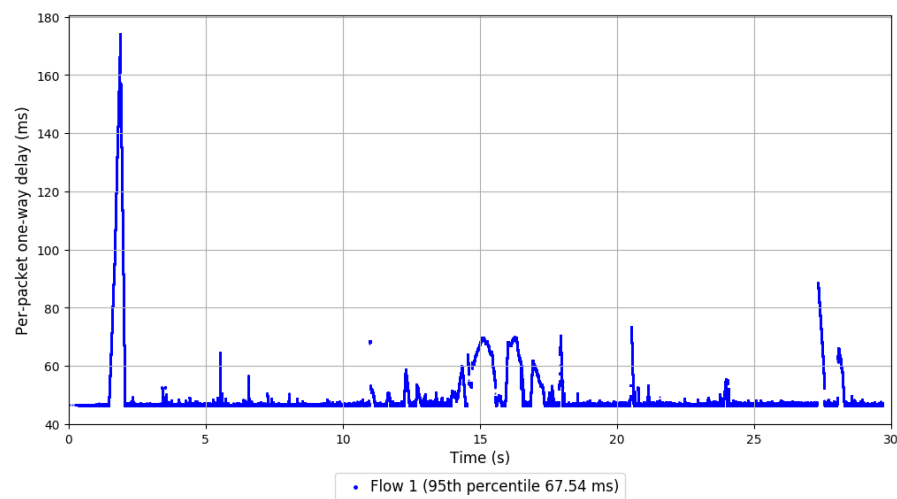
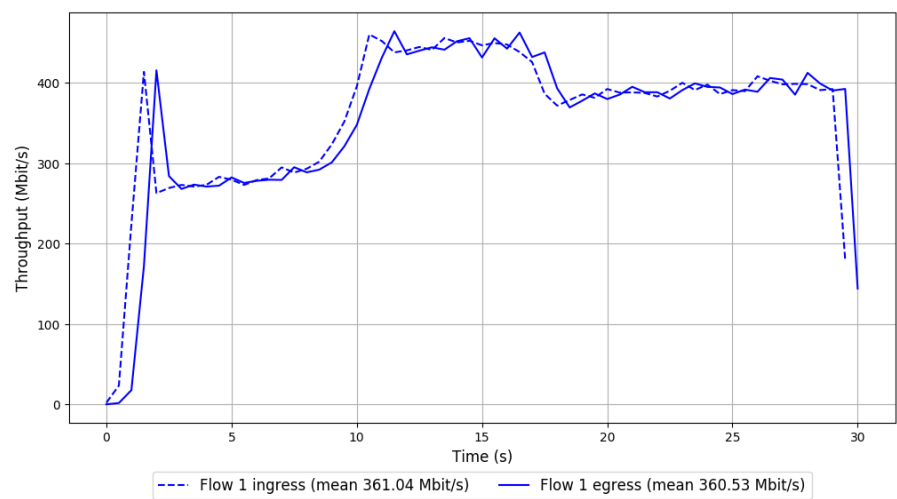
-- Flow 1:

Average throughput: 360.53 Mbit/s

95th percentile per-packet one-way delay: 67.544 ms

Loss rate: 0.46%

Run 1: Report of PCC-Allegro — Data Link

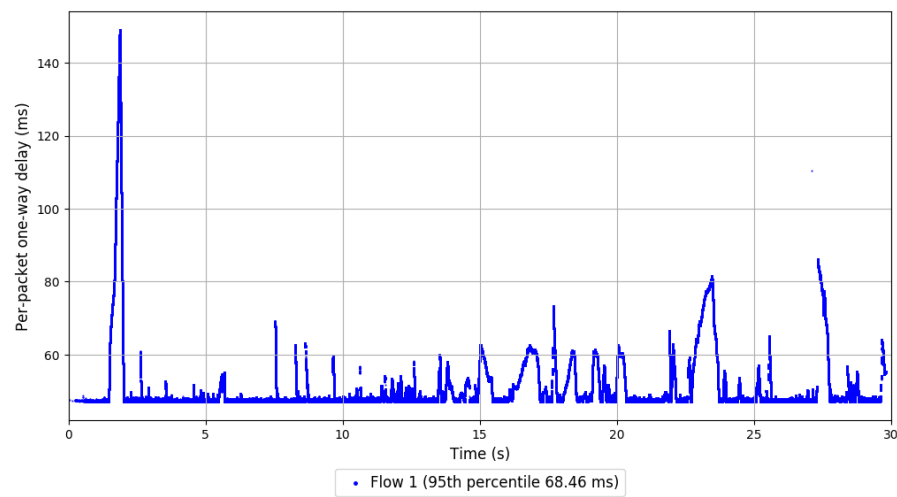
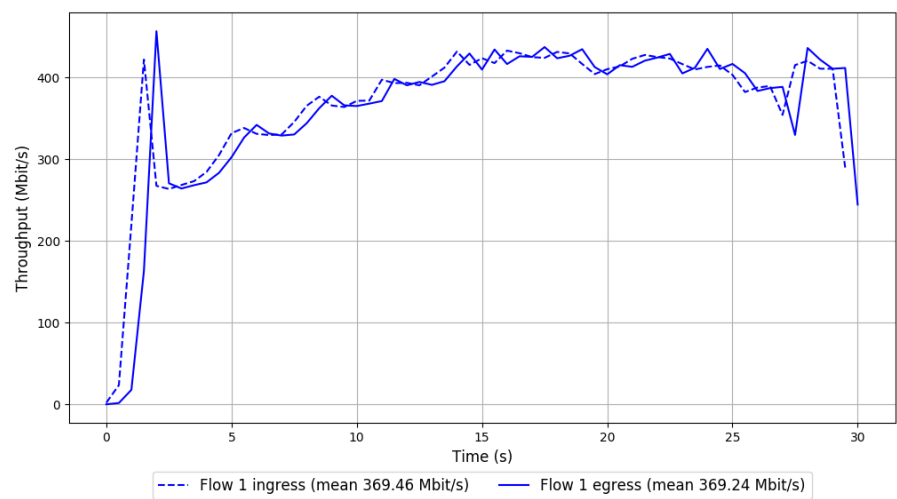


Run 2: Statistics of PCC-Allegro

Start at: 2019-06-28 15:35:19
End at: 2019-06-28 15:35:49
Local clock offset: -0.097 ms
Remote clock offset: -0.102 ms

Below is generated by plot.py at 2019-06-28 18:58:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 369.24 Mbit/s
95th percentile per-packet one-way delay: 68.456 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 369.24 Mbit/s
95th percentile per-packet one-way delay: 68.456 ms
Loss rate: 0.38%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-06-28 16:06:46

End at: 2019-06-28 16:07:16

Local clock offset: 0.452 ms

Remote clock offset: -0.021 ms

Below is generated by plot.py at 2019-06-28 19:00:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 395.85 Mbit/s

95th percentile per-packet one-way delay: 174.857 ms

Loss rate: 4.34%

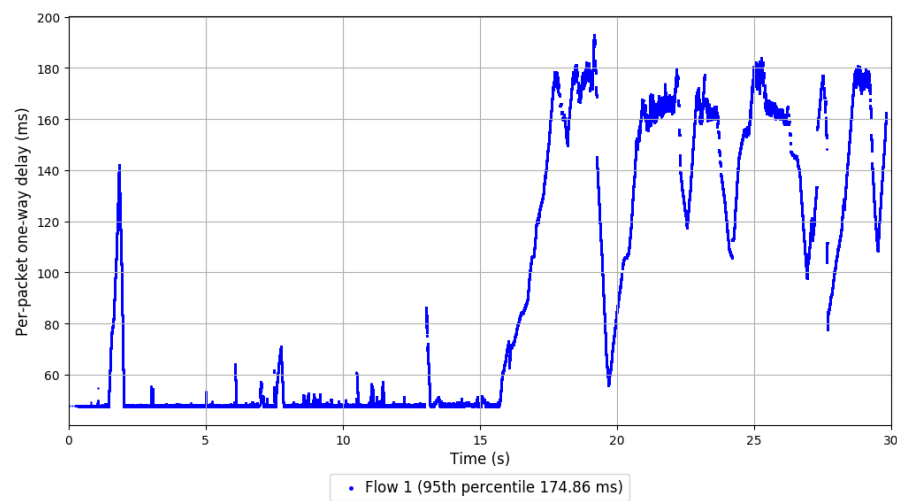
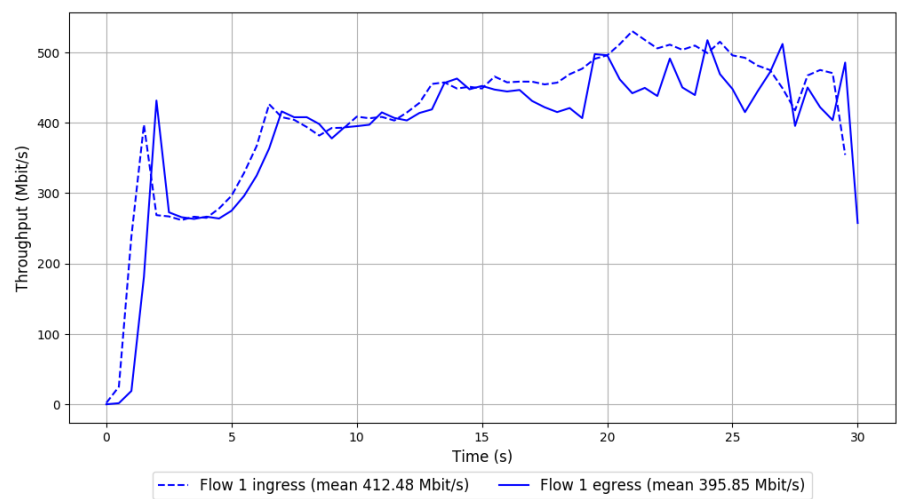
-- Flow 1:

Average throughput: 395.85 Mbit/s

95th percentile per-packet one-way delay: 174.857 ms

Loss rate: 4.34%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-06-28 16:38:24

End at: 2019-06-28 16:38:54

Local clock offset: 0.08 ms

Remote clock offset: -0.087 ms

Below is generated by plot.py at 2019-06-28 19:04:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 390.62 Mbit/s

95th percentile per-packet one-way delay: 175.906 ms

Loss rate: 1.95%

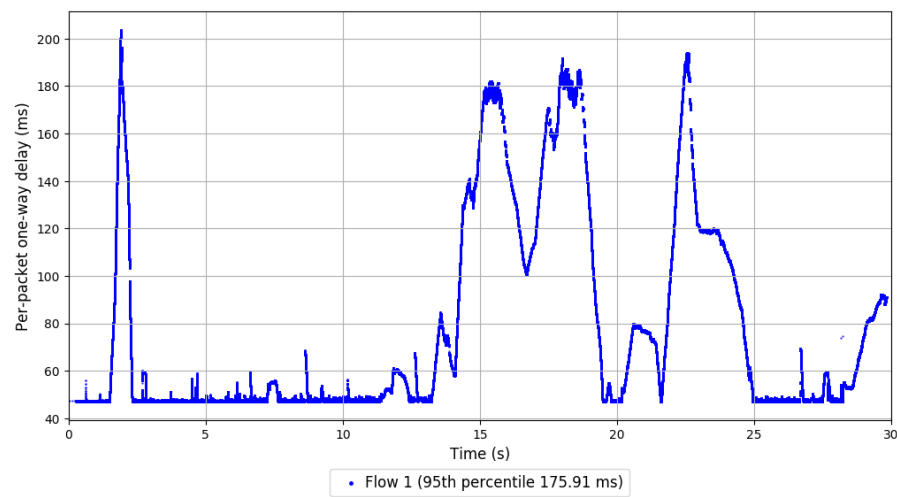
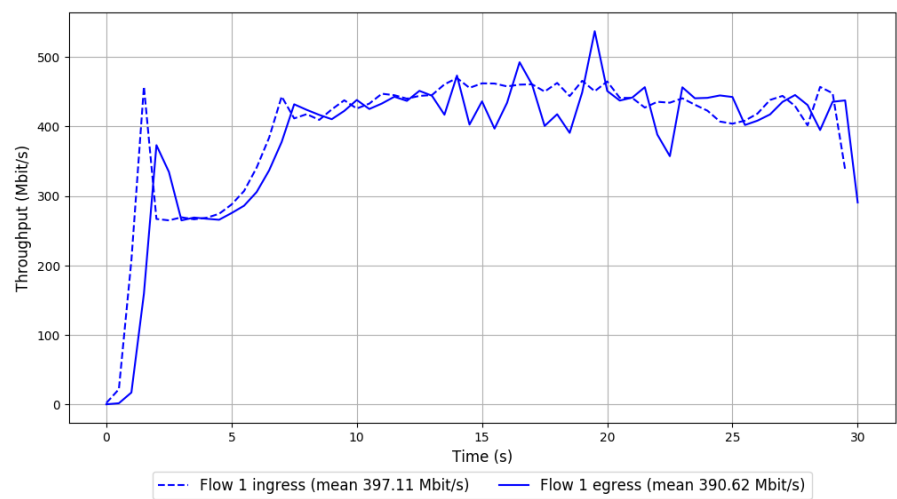
-- Flow 1:

Average throughput: 390.62 Mbit/s

95th percentile per-packet one-way delay: 175.906 ms

Loss rate: 1.95%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-06-28 17:09:28

End at: 2019-06-28 17:09:58

Local clock offset: 0.009 ms

Remote clock offset: -0.027 ms

Below is generated by plot.py at 2019-06-28 19:05:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 362.75 Mbit/s

95th percentile per-packet one-way delay: 64.569 ms

Loss rate: 0.45%

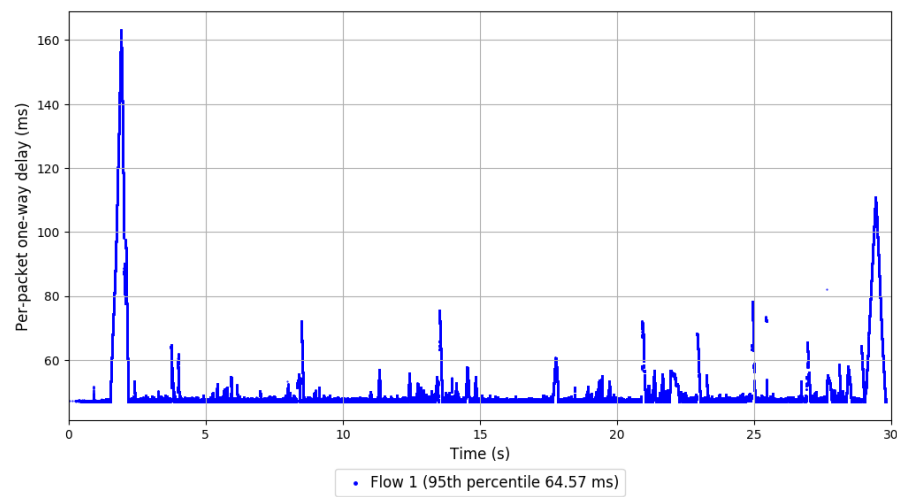
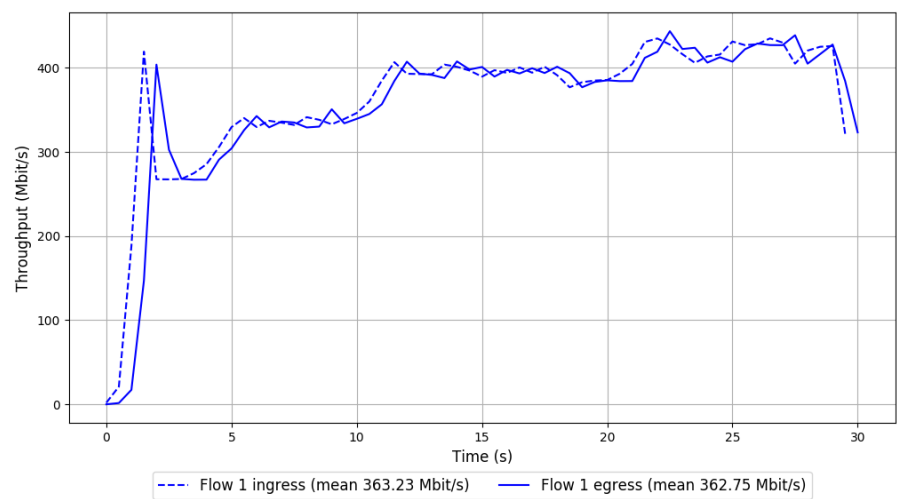
-- Flow 1:

Average throughput: 362.75 Mbit/s

95th percentile per-packet one-way delay: 64.569 ms

Loss rate: 0.45%

Run 5: Report of PCC-Allegro — Data Link

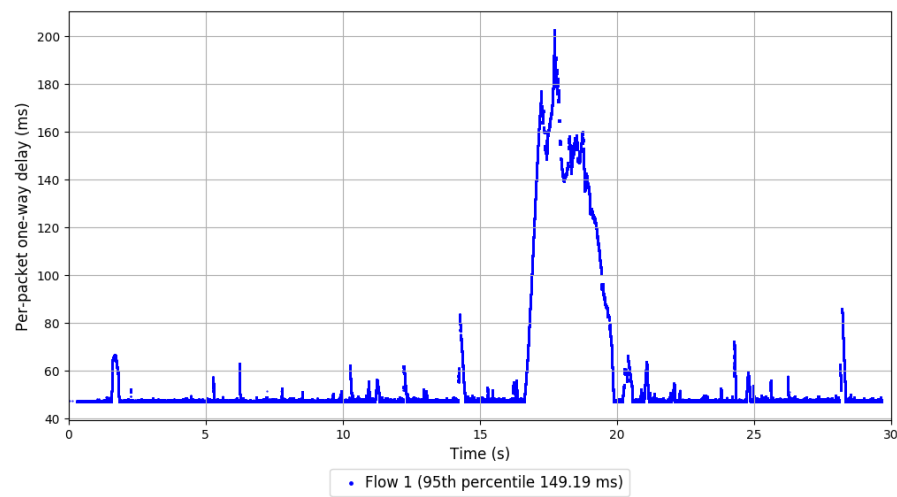
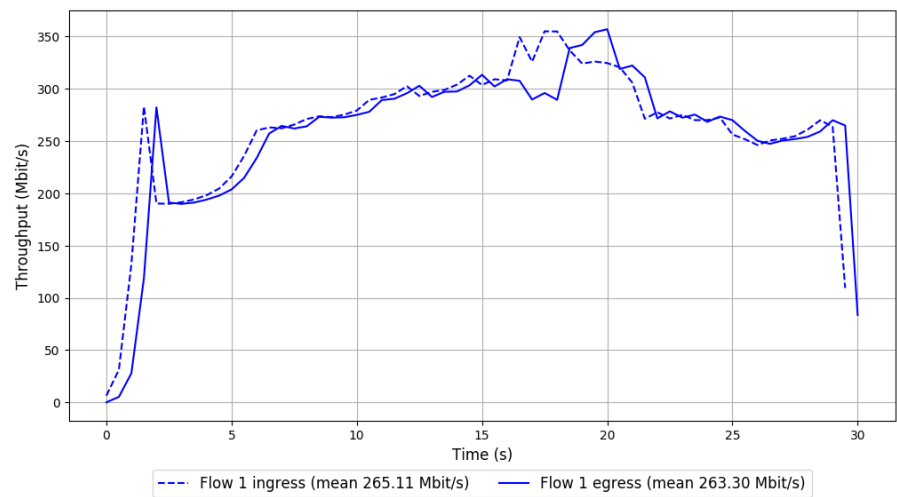


```
Run 1: Statistics of PCC-Expr

Start at: 2019-06-28 14:55:36
End at: 2019-06-28 14:56:06
Local clock offset: -0.106 ms
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2019-06-28 19:05:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 263.30 Mbit/s
95th percentile per-packet one-way delay: 149.189 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 263.30 Mbit/s
95th percentile per-packet one-way delay: 149.189 ms
Loss rate: 1.00%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-06-28 15:27:04

End at: 2019-06-28 15:27:34

Local clock offset: -0.07 ms

Remote clock offset: -0.136 ms

Below is generated by plot.py at 2019-06-28 19:05:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 327.08 Mbit/s

95th percentile per-packet one-way delay: 142.909 ms

Loss rate: 1.05%

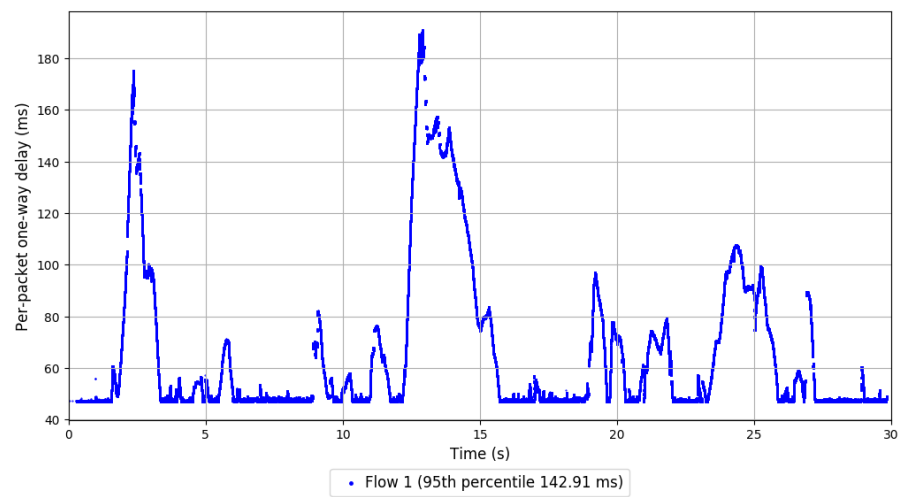
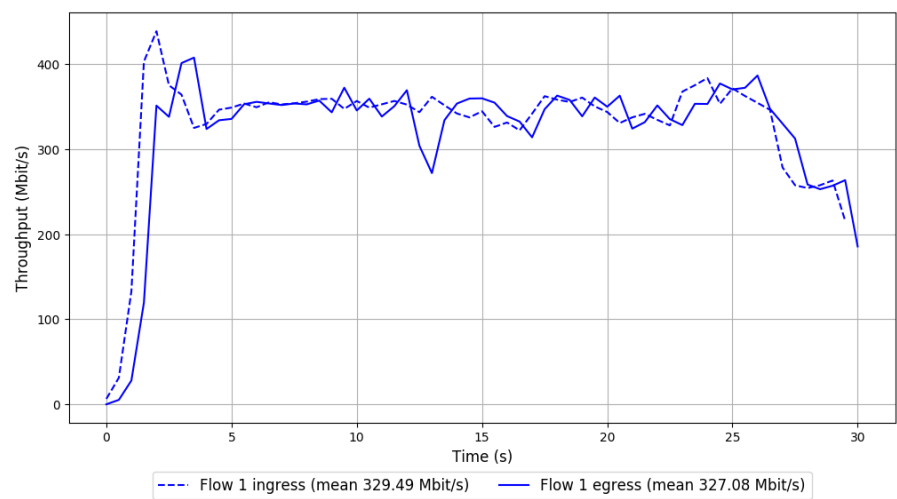
-- Flow 1:

Average throughput: 327.08 Mbit/s

95th percentile per-packet one-way delay: 142.909 ms

Loss rate: 1.05%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-06-28 15:58:34

End at: 2019-06-28 15:59:04

Local clock offset: 0.025 ms

Remote clock offset: -0.049 ms

Below is generated by plot.py at 2019-06-28 19:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 302.40 Mbit/s

95th percentile per-packet one-way delay: 116.594 ms

Loss rate: 1.01%

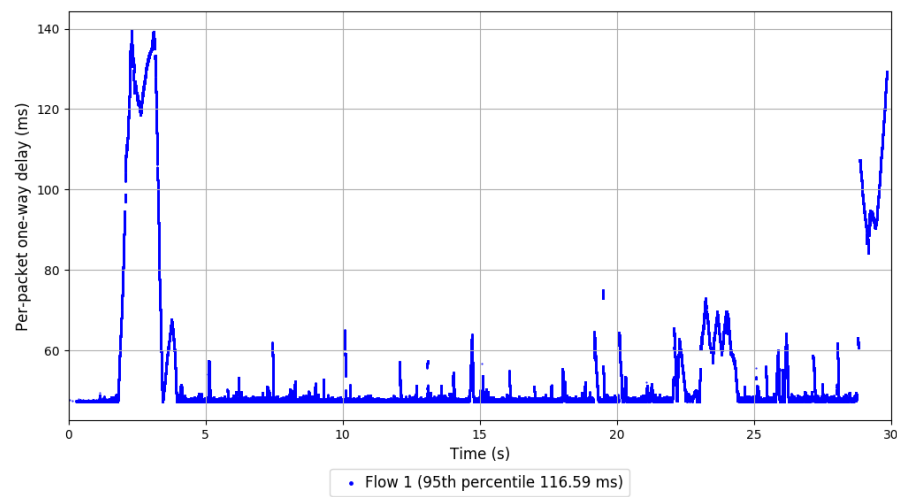
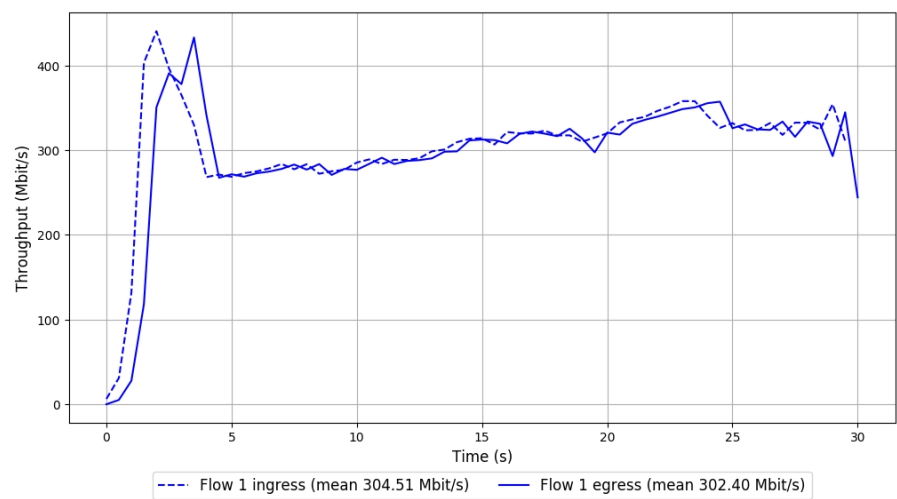
-- Flow 1:

Average throughput: 302.40 Mbit/s

95th percentile per-packet one-way delay: 116.594 ms

Loss rate: 1.01%

Run 3: Report of PCC-Expr — Data Link

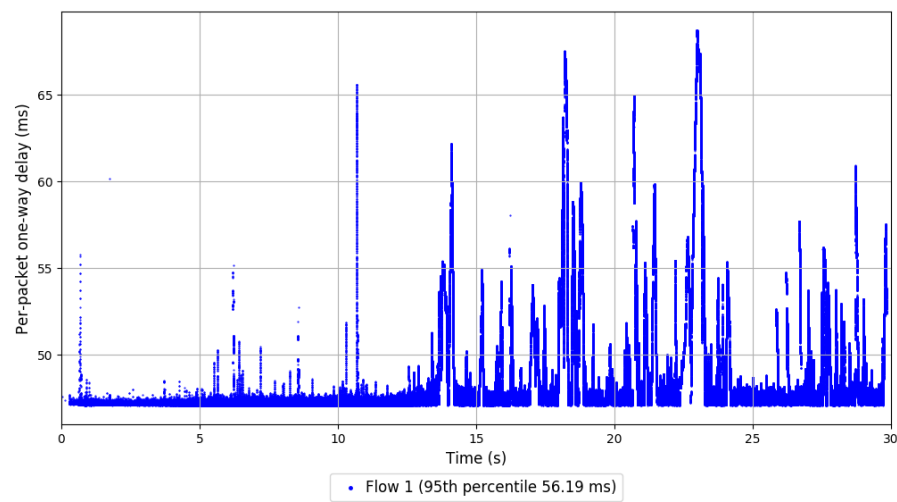
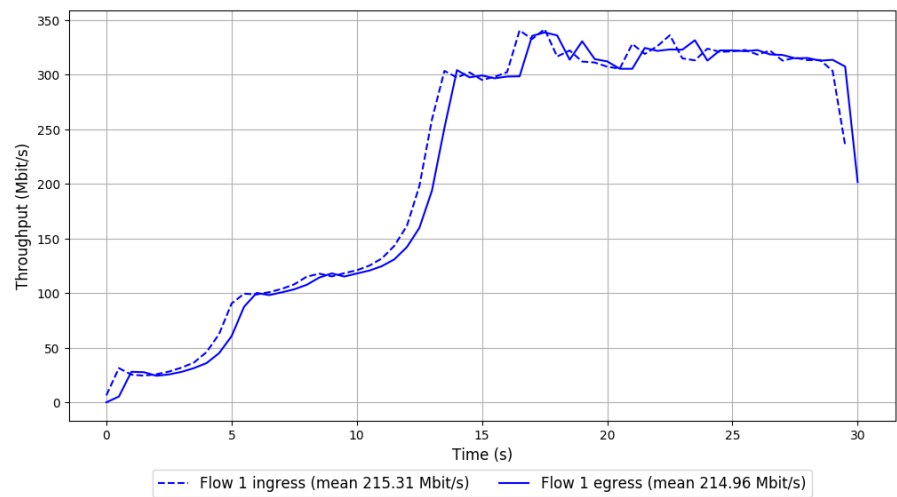


Run 4: Statistics of PCC-Expr

Start at: 2019-06-28 16:30:18
End at: 2019-06-28 16:30:48
Local clock offset: 0.07 ms
Remote clock offset: -0.019 ms

Below is generated by plot.py at 2019-06-28 19:06:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 214.96 Mbit/s
95th percentile per-packet one-way delay: 56.187 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 214.96 Mbit/s
95th percentile per-packet one-way delay: 56.187 ms
Loss rate: 0.49%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

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

End at: 2019-06-28 17:01:47

Local clock offset: 0.072 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2019-06-28 19:09:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 282.22 Mbit/s

95th percentile per-packet one-way delay: 114.528 ms

Loss rate: 0.67%

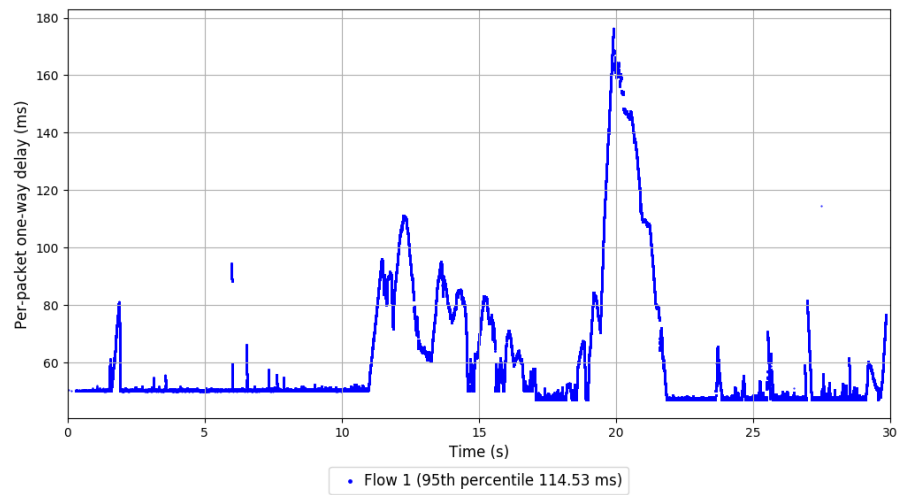
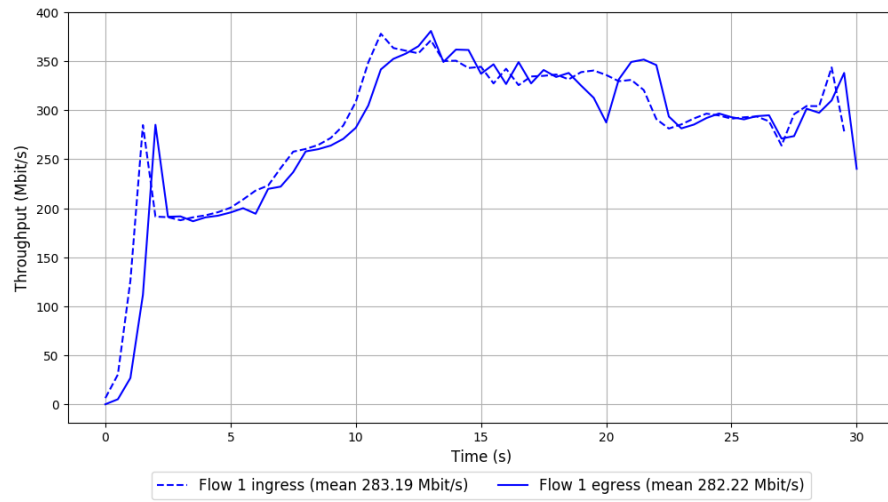
-- Flow 1:

Average throughput: 282.22 Mbit/s

95th percentile per-packet one-way delay: 114.528 ms

Loss rate: 0.67%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

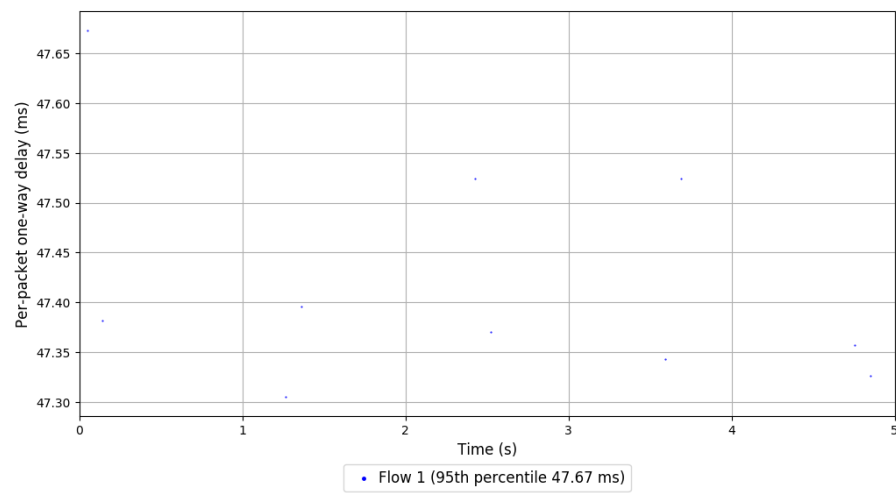
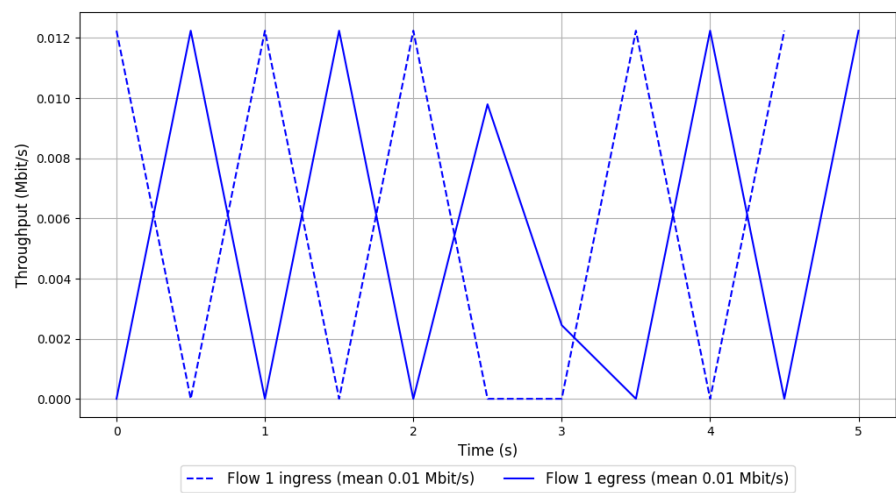
Start at: 2019-06-28 14:59:55

End at: 2019-06-28 15:00:25

Local clock offset: -0.104 ms

Remote clock offset: -0.082 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-06-28 15:31:29

End at: 2019-06-28 15:31:59

Local clock offset: -0.047 ms

Remote clock offset: -0.172 ms

Below is generated by plot.py at 2019-06-28 19:09:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.09 Mbit/s

95th percentile per-packet one-way delay: 47.498 ms

Loss rate: 0.67%

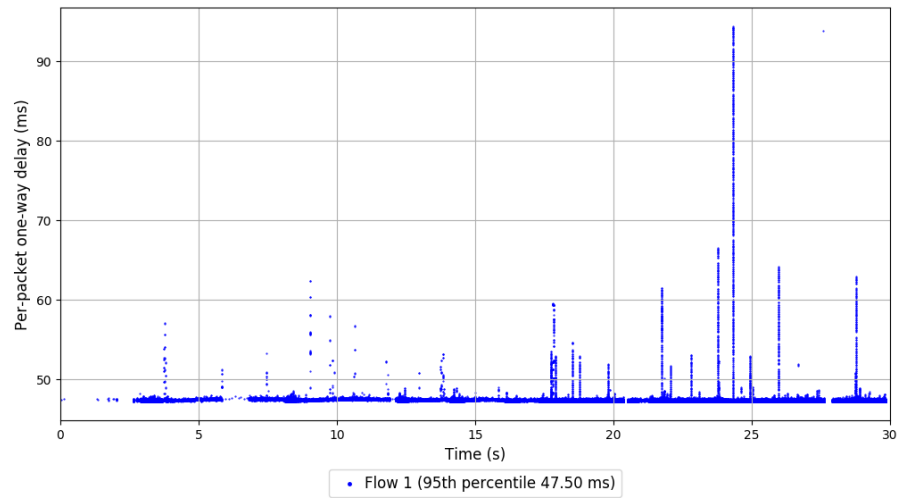
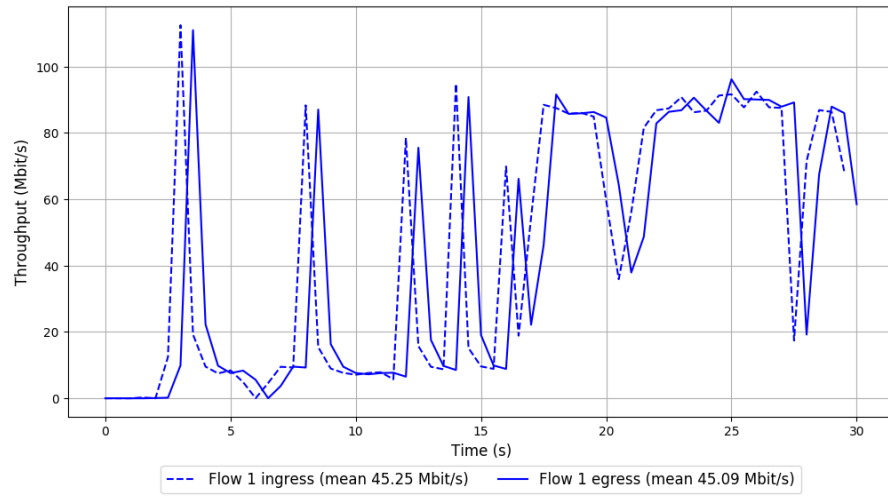
-- Flow 1:

Average throughput: 45.09 Mbit/s

95th percentile per-packet one-way delay: 47.498 ms

Loss rate: 0.67%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-06-28 16:02:55

End at: 2019-06-28 16:03:25

Local clock offset: 0.07 ms

Remote clock offset: -0.023 ms

Below is generated by plot.py at 2019-06-28 19:09:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.08 Mbit/s

95th percentile per-packet one-way delay: 49.608 ms

Loss rate: 0.50%

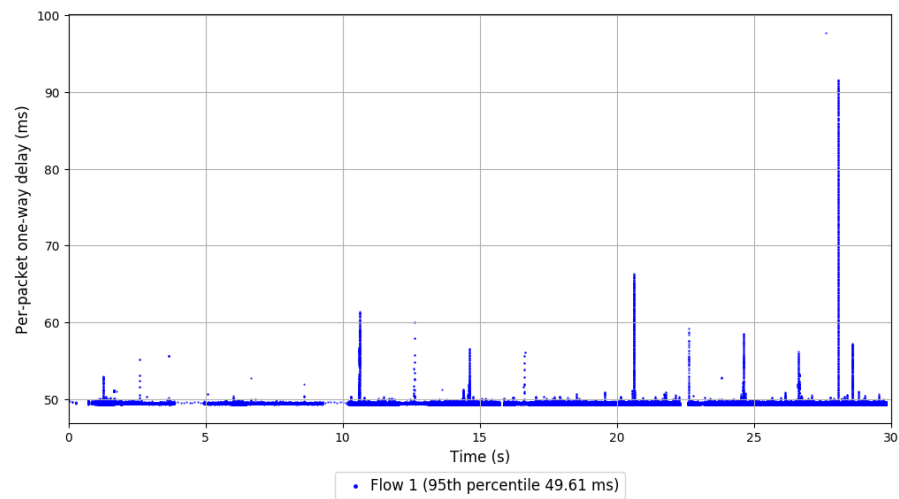
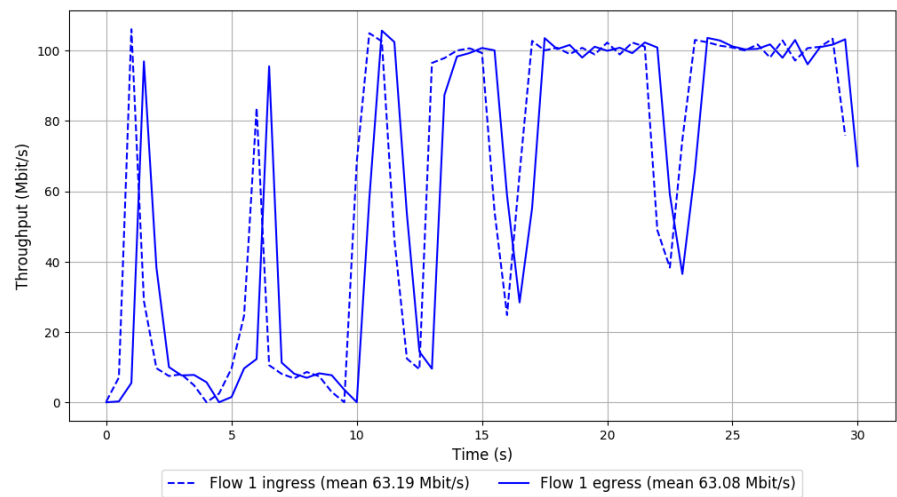
-- Flow 1:

Average throughput: 63.08 Mbit/s

95th percentile per-packet one-way delay: 49.608 ms

Loss rate: 0.50%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-06-28 16:34:33

End at: 2019-06-28 16:35:03

Local clock offset: 0.068 ms

Remote clock offset: -0.083 ms

Below is generated by plot.py at 2019-06-28 19:09:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.62 Mbit/s

95th percentile per-packet one-way delay: 49.569 ms

Loss rate: 0.54%

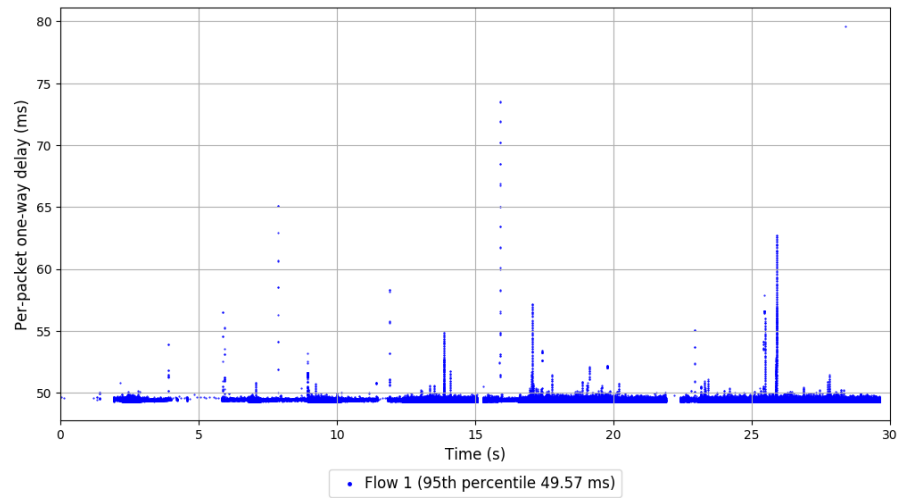
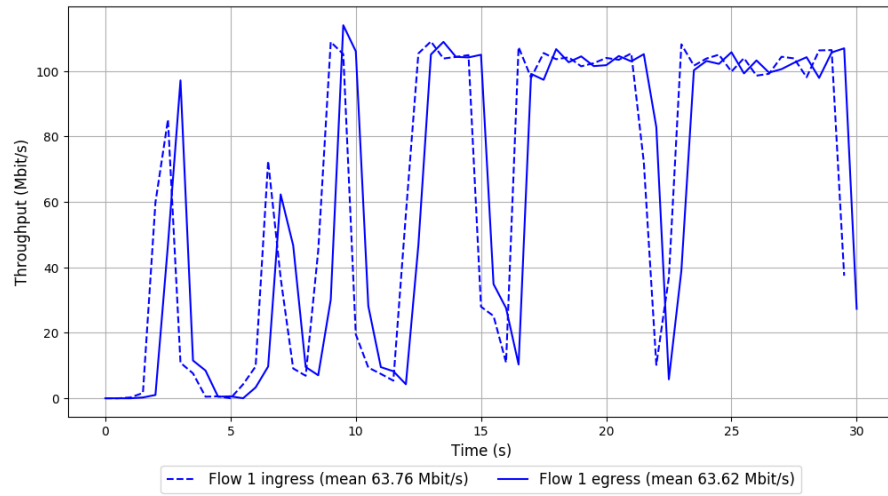
-- Flow 1:

Average throughput: 63.62 Mbit/s

95th percentile per-packet one-way delay: 49.569 ms

Loss rate: 0.54%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-06-28 17:05:37

End at: 2019-06-28 17:06:07

Local clock offset: 0.047 ms

Remote clock offset: -0.034 ms

Below is generated by plot.py at 2019-06-28 19:09:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.42 Mbit/s

95th percentile per-packet one-way delay: 47.336 ms

Loss rate: 0.47%

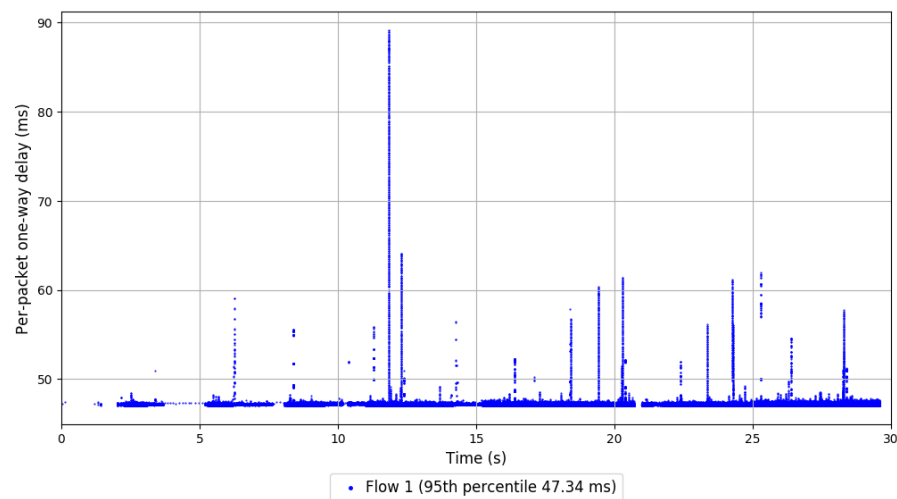
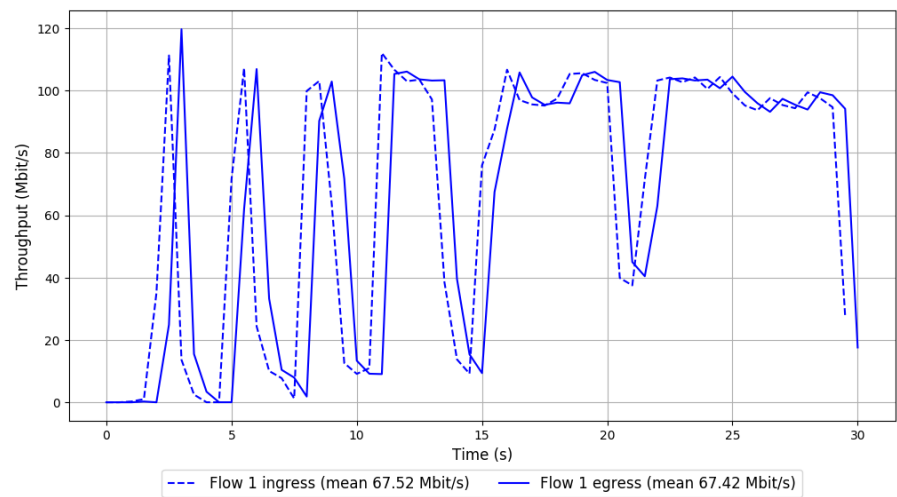
-- Flow 1:

Average throughput: 67.42 Mbit/s

95th percentile per-packet one-way delay: 47.336 ms

Loss rate: 0.47%

Run 5: Report of QUIC Cubic — Data Link

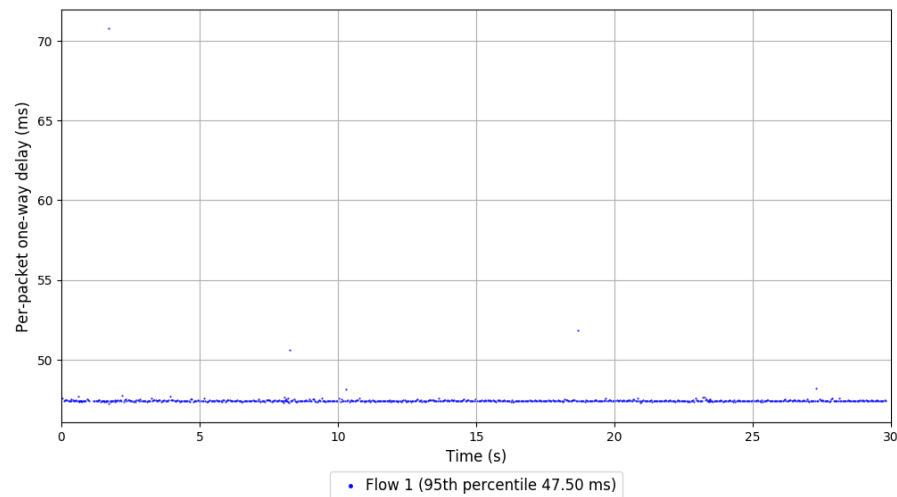
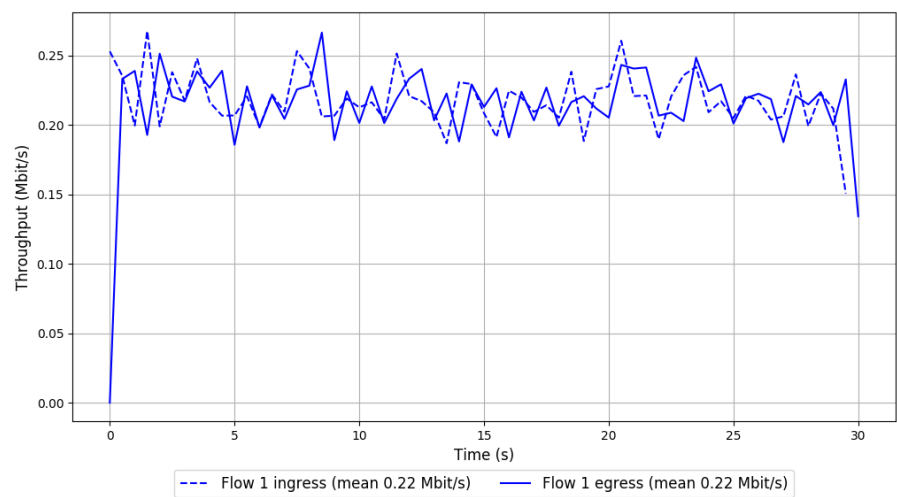


Run 1: Statistics of SCReAM

Start at: 2019-06-28 15:02:34
End at: 2019-06-28 15:03:04
Local clock offset: -0.129 ms
Remote clock offset: -0.102 ms

Below is generated by plot.py at 2019-06-28 19:09:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.503 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.503 ms
Loss rate: 0.25%

Run 1: Report of SReAM — Data Link

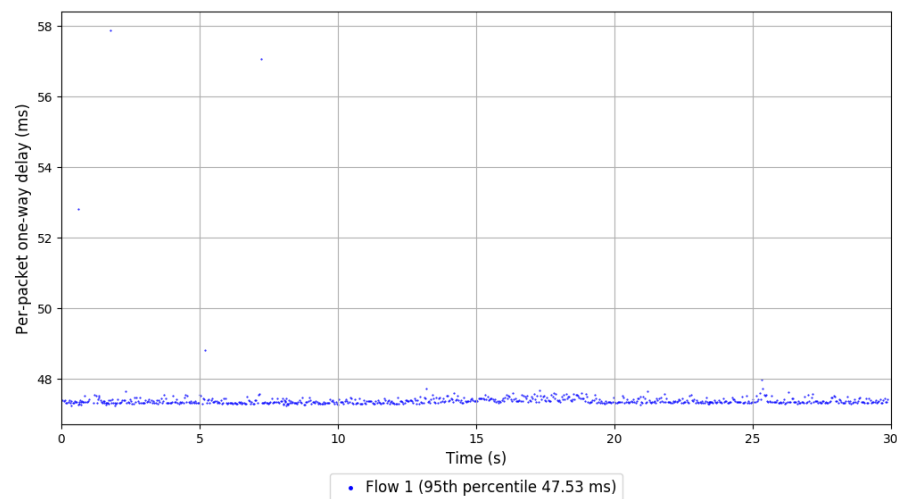
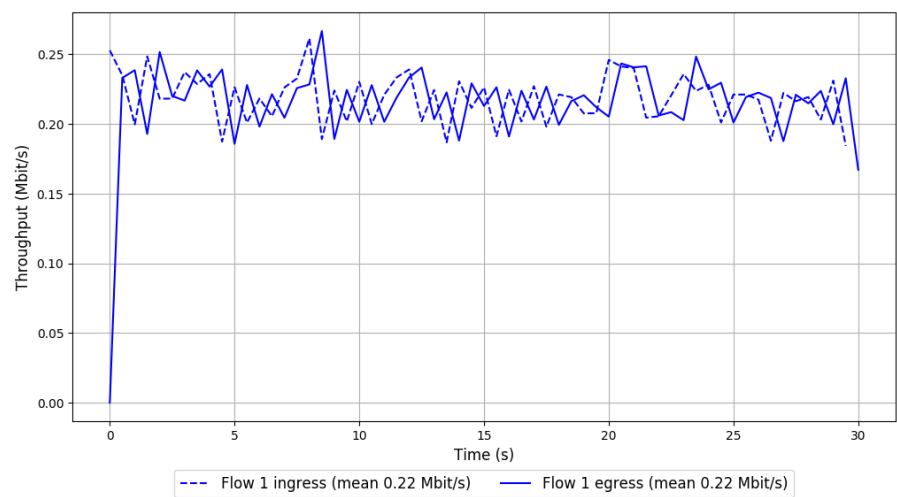


Run 2: Statistics of SCReAM

Start at: 2019-06-28 15:34:11
End at: 2019-06-28 15:34:41
Local clock offset: -0.049 ms
Remote clock offset: -0.137 ms

Below is generated by plot.py at 2019-06-28 19:09:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.526 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.526 ms
Loss rate: 0.26%

Run 2: Report of SReAM — Data Link

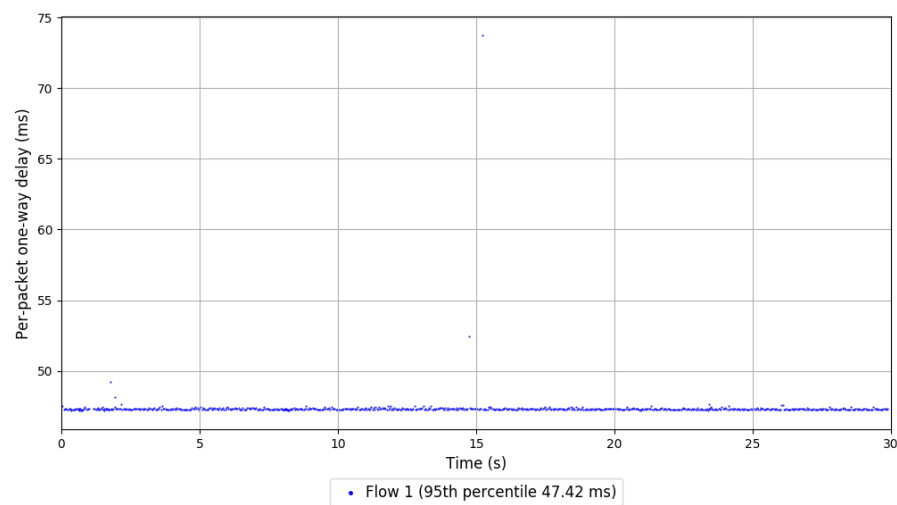
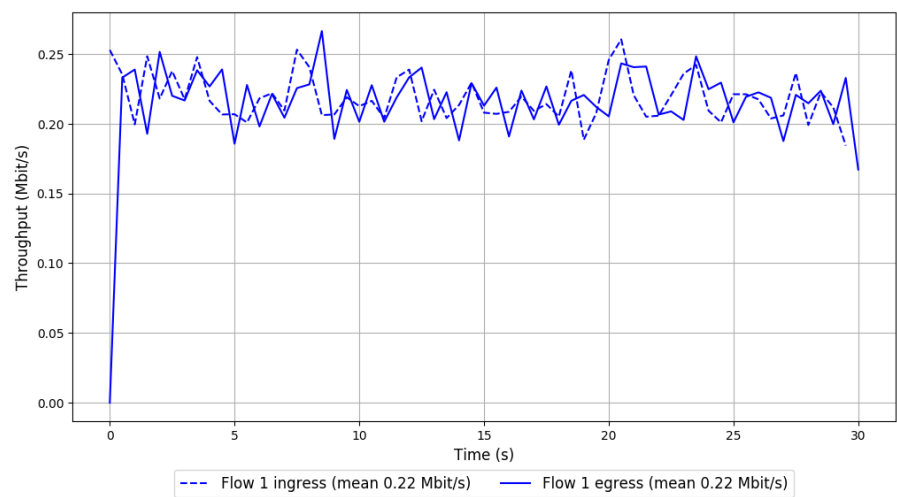


Run 3: Statistics of SCReAM

Start at: 2019-06-28 16:05:38
End at: 2019-06-28 16:06:08
Local clock offset: 0.049 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2019-06-28 19:09:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.421 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.421 ms
Loss rate: 0.26%

Run 3: Report of SReAM — Data Link

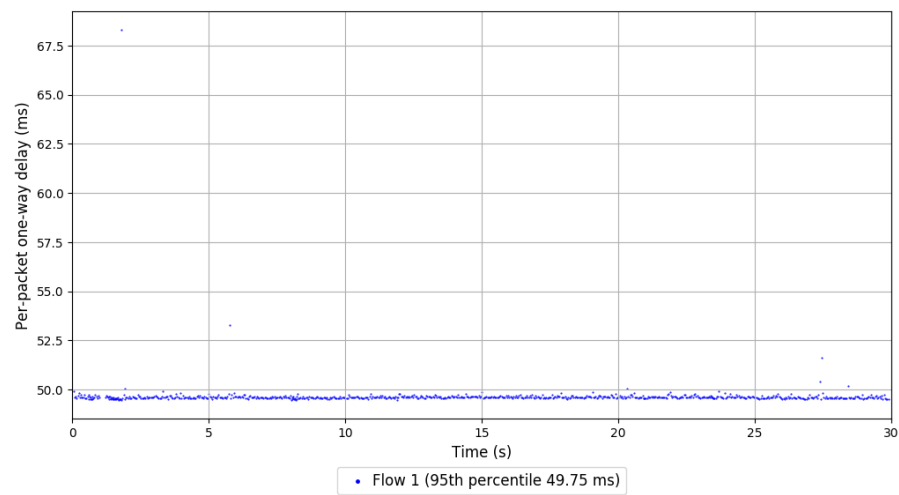
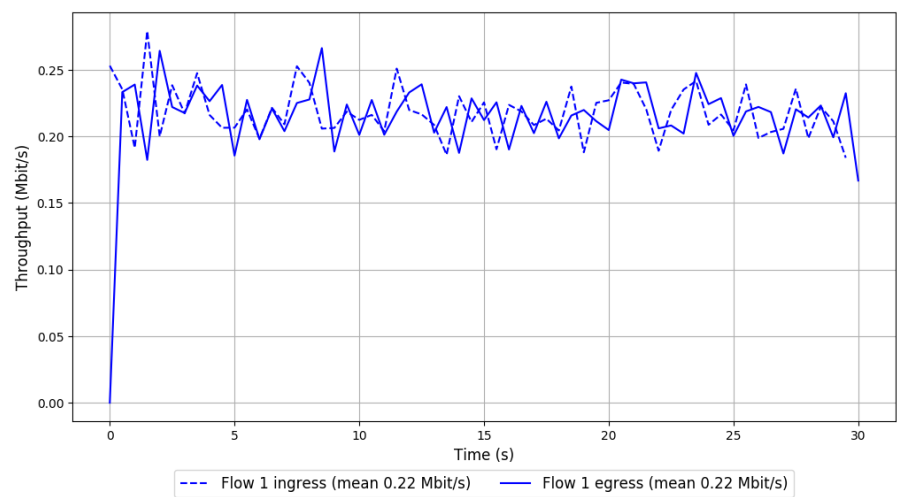


Run 4: Statistics of SCReAM

Start at: 2019-06-28 16:37:16
End at: 2019-06-28 16:37:46
Local clock offset: 0.072 ms
Remote clock offset: -0.073 ms

Below is generated by plot.py at 2019-06-28 19:09:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.746 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.746 ms
Loss rate: 0.26%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-06-28 17:08:20

End at: 2019-06-28 17:08:50

Local clock offset: 0.041 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2019-06-28 19:09:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 46.775 ms

Loss rate: 0.26%

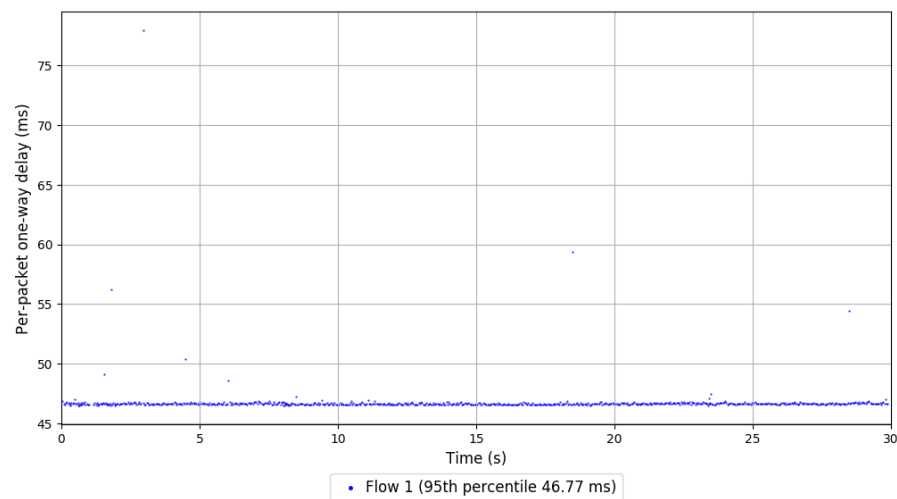
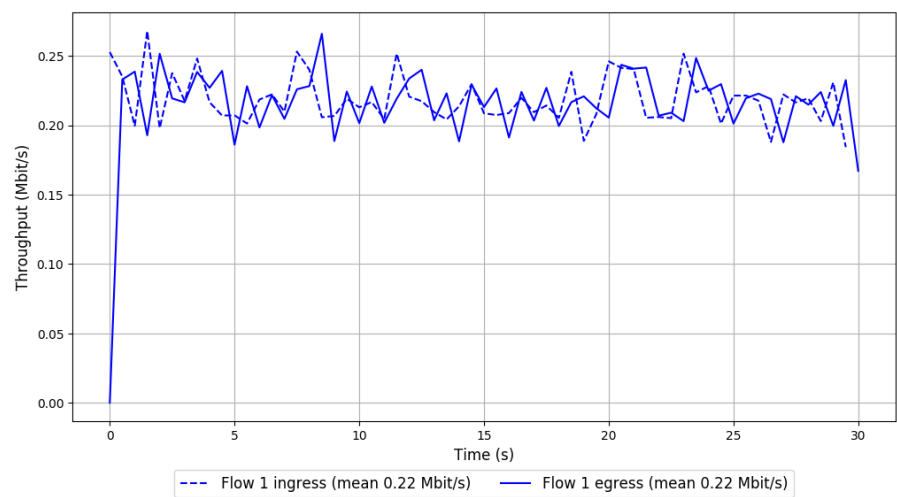
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 46.775 ms

Loss rate: 0.26%

Run 5: Report of SReAM — Data Link

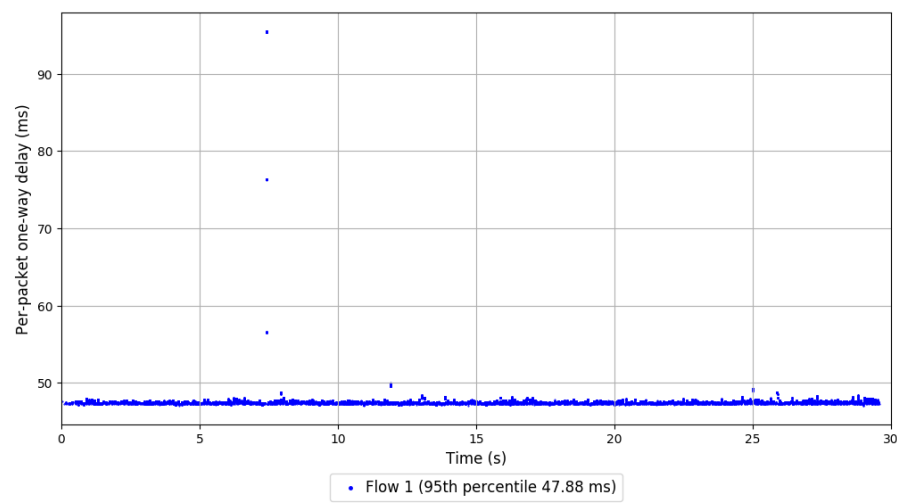
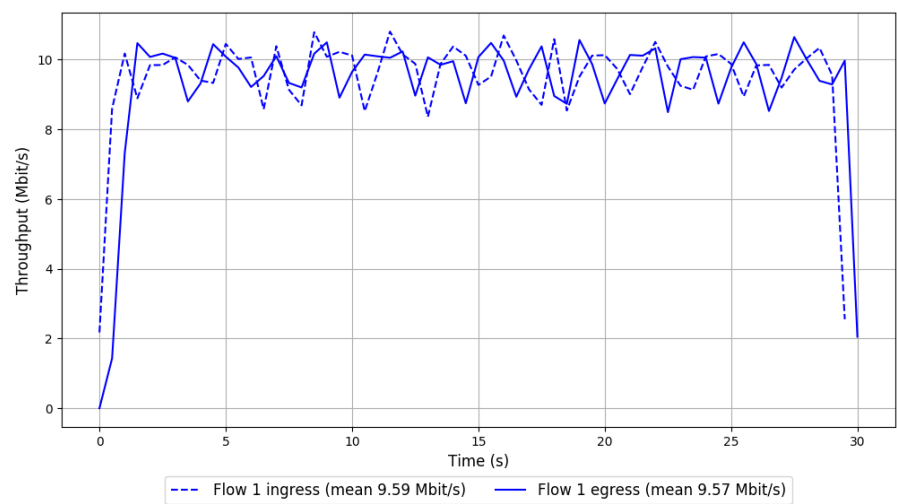


Run 1: Statistics of Sprout

Start at: 2019-06-28 15:16:46
End at: 2019-06-28 15:17:16
Local clock offset: -0.075 ms
Remote clock offset: -0.123 ms

Below is generated by plot.py at 2019-06-28 19:09:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.57 Mbit/s
95th percentile per-packet one-way delay: 47.876 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 9.57 Mbit/s
95th percentile per-packet one-way delay: 47.876 ms
Loss rate: 0.35%

Run 1: Report of Sprout — Data Link

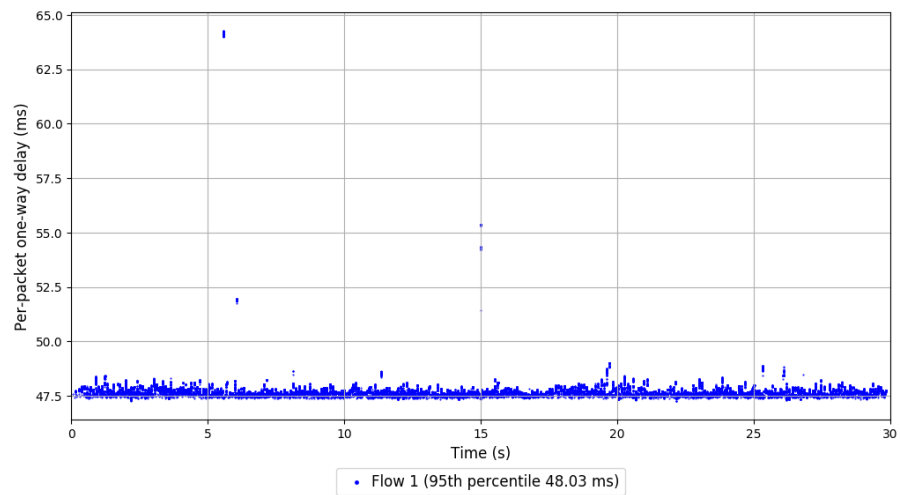
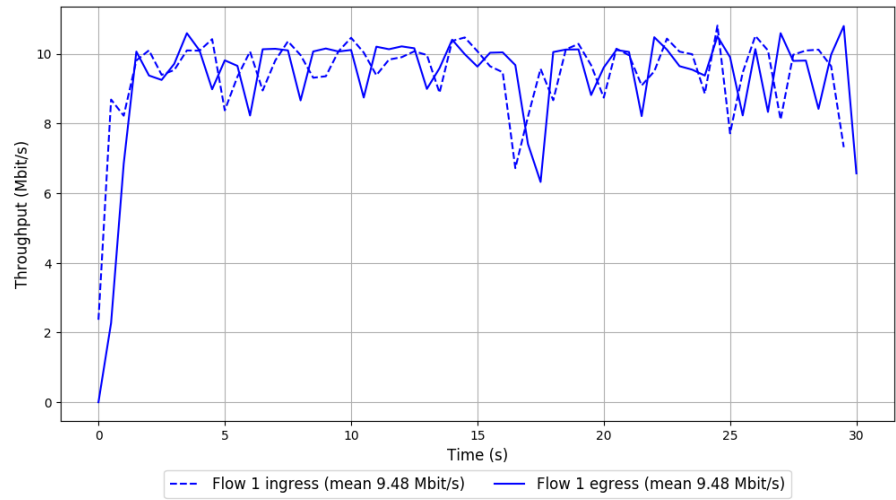


Run 2: Statistics of Sprout

Start at: 2019-06-28 15:48:18
End at: 2019-06-28 15:48:48
Local clock offset: -0.008 ms
Remote clock offset: -0.073 ms

Below is generated by plot.py at 2019-06-28 19:09:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.48 Mbit/s
95th percentile per-packet one-way delay: 48.027 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 9.48 Mbit/s
95th percentile per-packet one-way delay: 48.027 ms
Loss rate: 0.28%

Run 2: Report of Sprout — Data Link

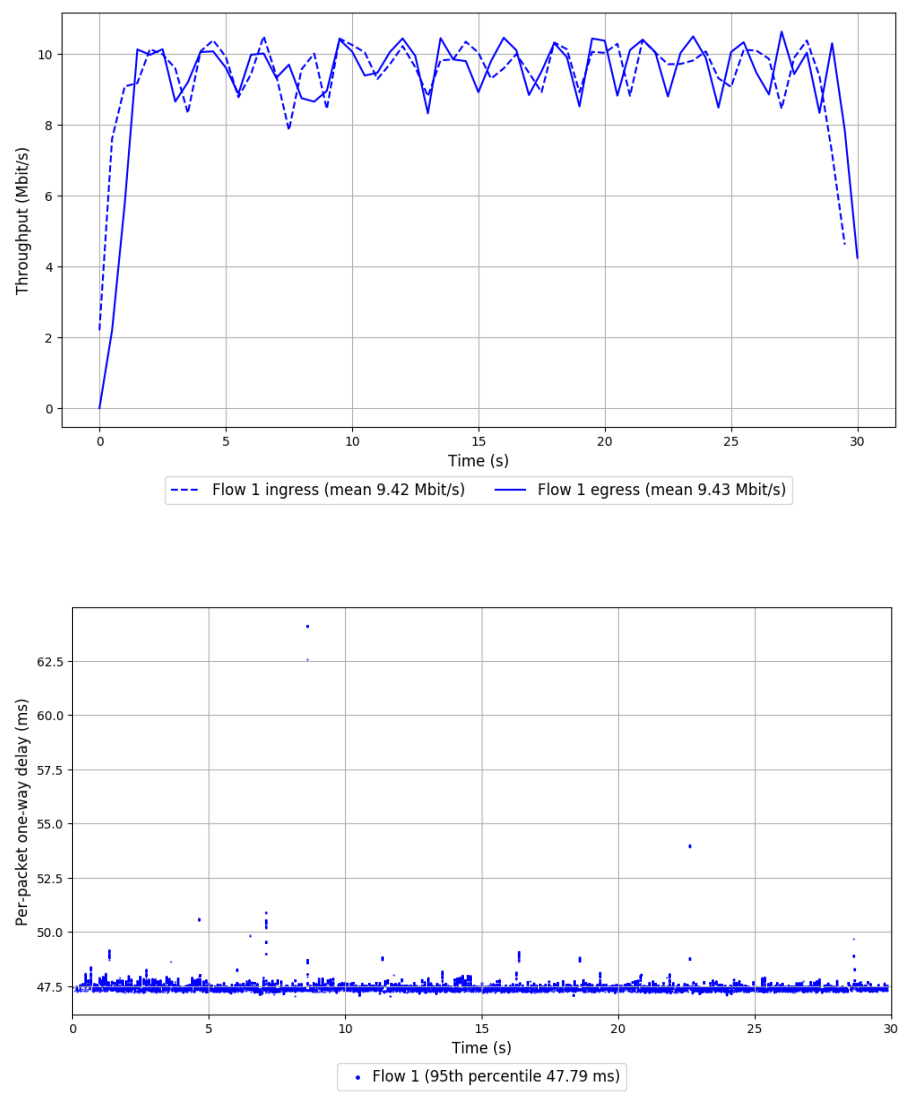


Run 3: Statistics of Sprout

Start at: 2019-06-28 16:20:00
End at: 2019-06-28 16:20:30
Local clock offset: 0.09 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2019-06-28 19:09:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.43 Mbit/s
95th percentile per-packet one-way delay: 47.789 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 9.43 Mbit/s
95th percentile per-packet one-way delay: 47.789 ms
Loss rate: 0.15%

Run 3: Report of Sprout — Data Link

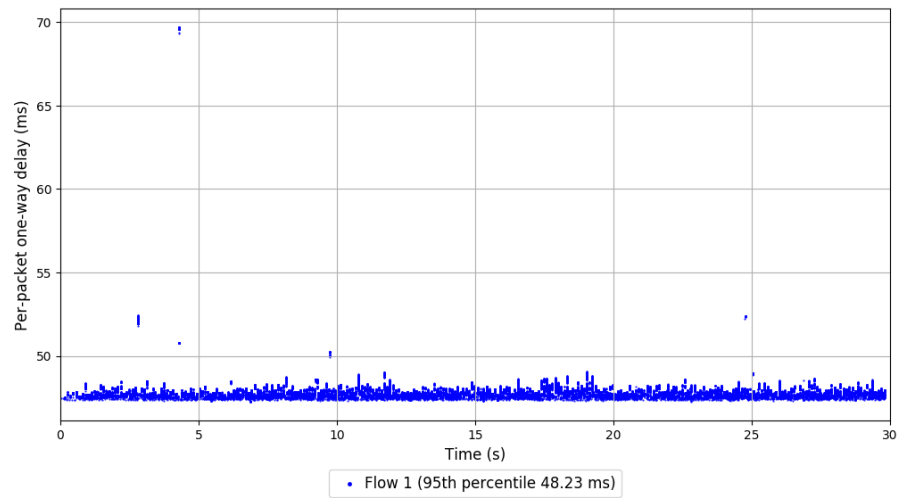
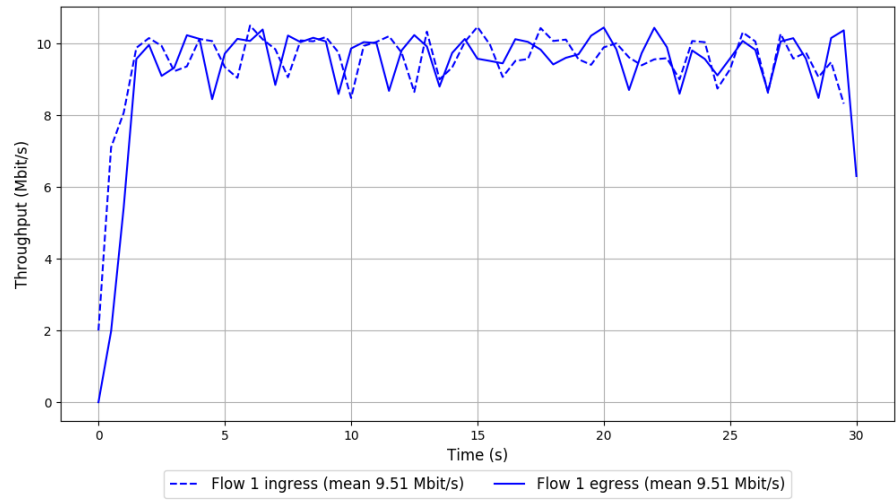


Run 4: Statistics of Sprout

Start at: 2019-06-28 16:51:19
End at: 2019-06-28 16:51:49
Local clock offset: 0.074 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2019-06-28 19:09:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.51 Mbit/s
95th percentile per-packet one-way delay: 48.227 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 9.51 Mbit/s
95th percentile per-packet one-way delay: 48.227 ms
Loss rate: 0.36%

Run 4: Report of Sprout — Data Link

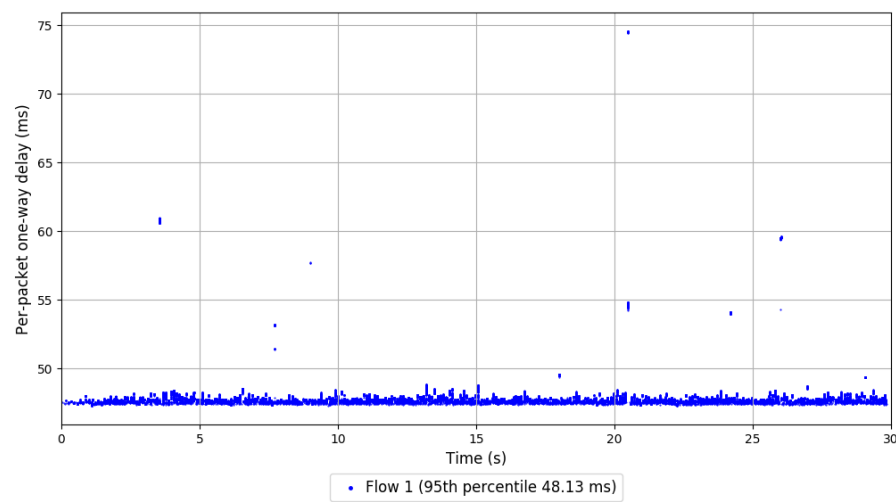
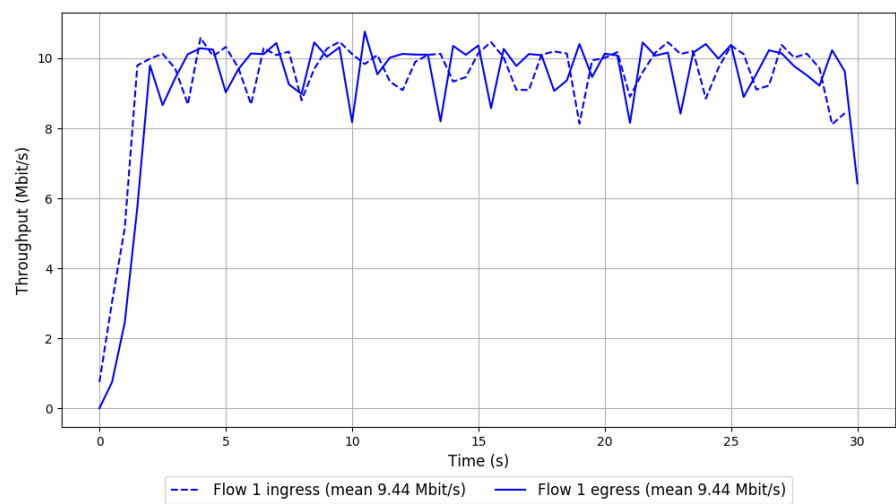


Run 5: Statistics of Sprout

Start at: 2019-06-28 17:22:33
End at: 2019-06-28 17:23:03
Local clock offset: 0.016 ms
Remote clock offset: -0.058 ms

Below is generated by plot.py at 2019-06-28 19:09:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.44 Mbit/s
95th percentile per-packet one-way delay: 48.129 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 9.44 Mbit/s
95th percentile per-packet one-way delay: 48.129 ms
Loss rate: 0.36%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-06-28 14:50:57

End at: 2019-06-28 14:51:27

Local clock offset: -0.06 ms

Remote clock offset: -0.113 ms

Below is generated by plot.py at 2019-06-28 19:13:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 238.07 Mbit/s

95th percentile per-packet one-way delay: 48.181 ms

Loss rate: 0.36%

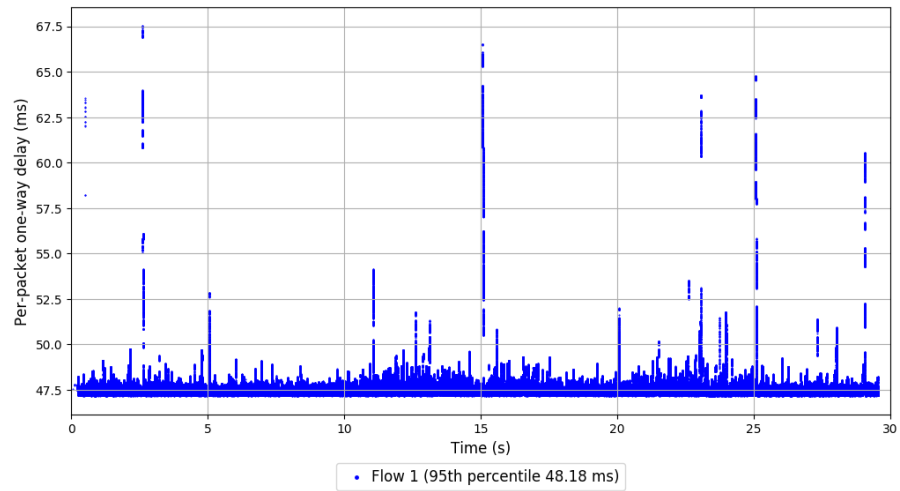
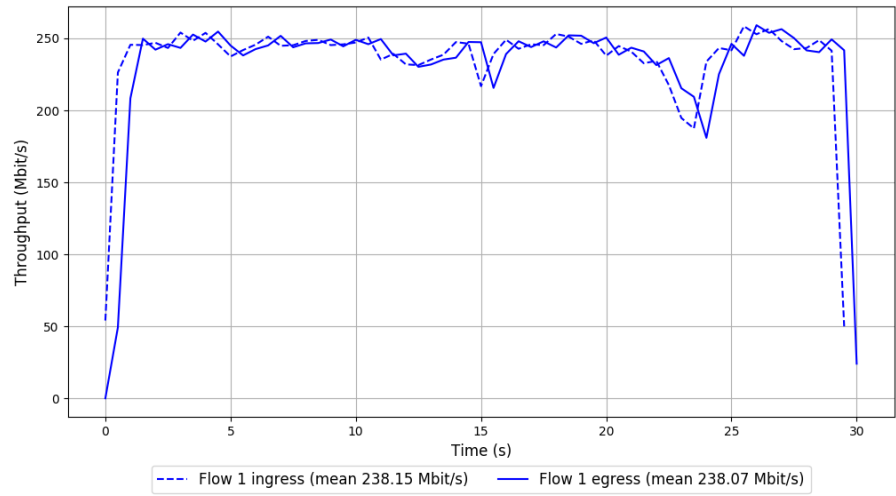
-- Flow 1:

Average throughput: 238.07 Mbit/s

95th percentile per-packet one-way delay: 48.181 ms

Loss rate: 0.36%

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

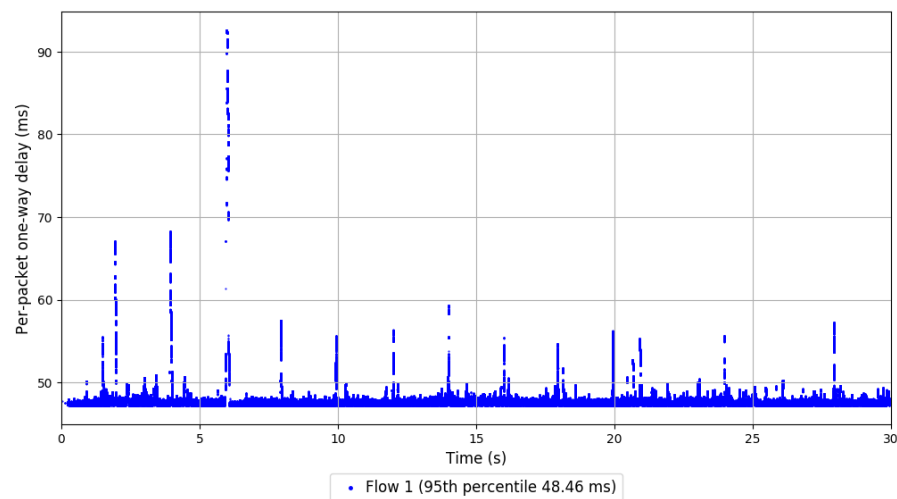
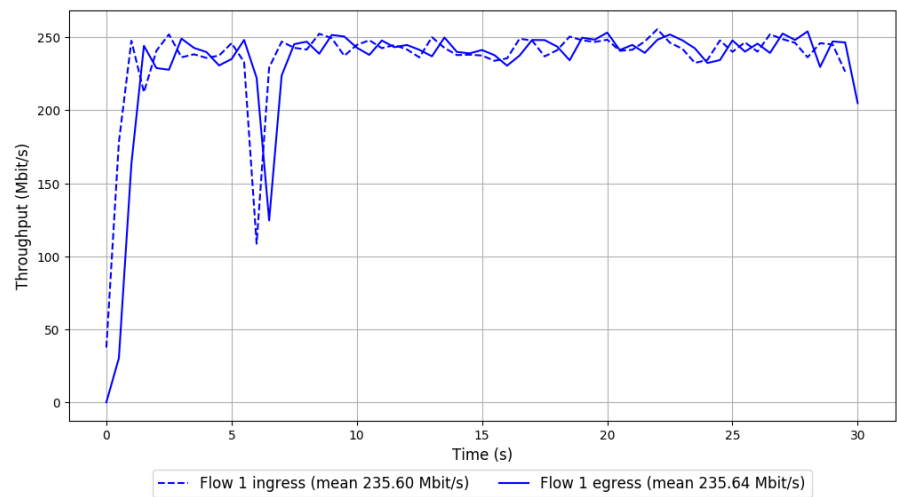


Run 2: Statistics of TaoVA-100x

Start at: 2019-06-28 15:22:25
End at: 2019-06-28 15:22:55
Local clock offset: -0.034 ms
Remote clock offset: -0.163 ms

Below is generated by plot.py at 2019-06-28 19:13:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 235.64 Mbit/s
95th percentile per-packet one-way delay: 48.456 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 235.64 Mbit/s
95th percentile per-packet one-way delay: 48.456 ms
Loss rate: 0.30%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-06-28 15:53:56

End at: 2019-06-28 15:54:26

Local clock offset: 0.022 ms

Remote clock offset: -0.036 ms

Below is generated by plot.py at 2019-06-28 19:13:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.92 Mbit/s

95th percentile per-packet one-way delay: 47.828 ms

Loss rate: 0.36%

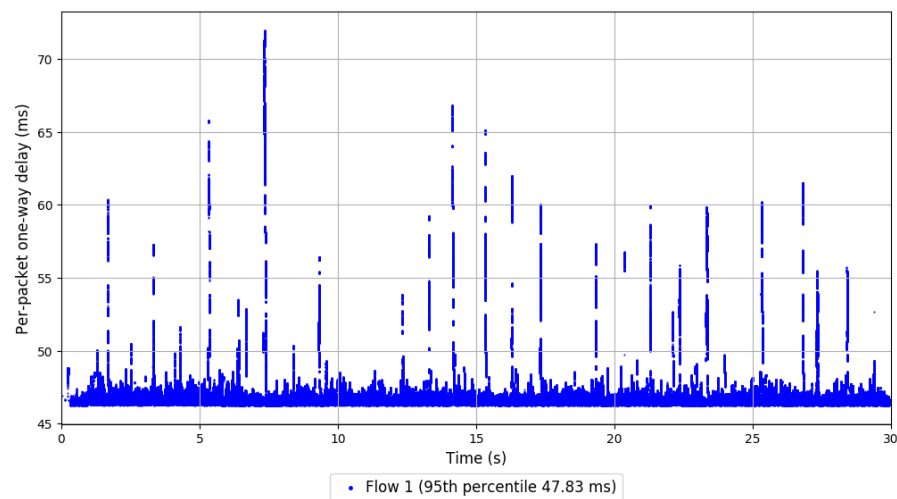
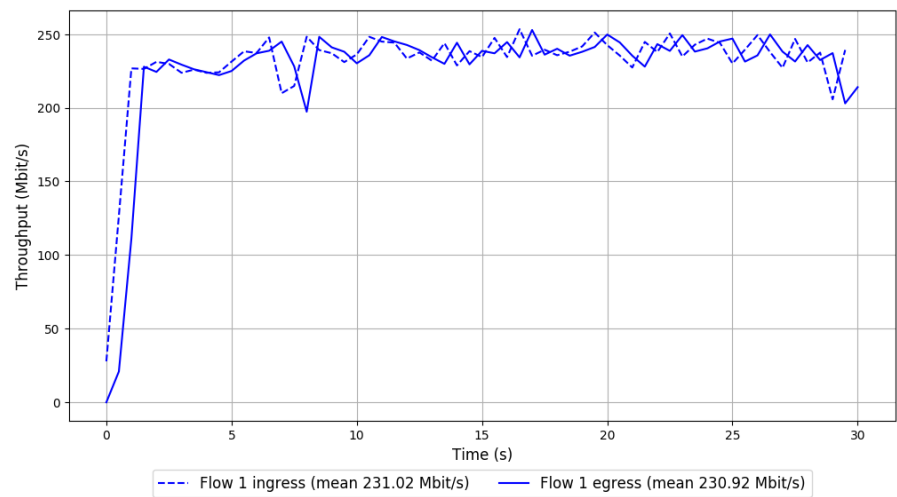
-- Flow 1:

Average throughput: 230.92 Mbit/s

95th percentile per-packet one-way delay: 47.828 ms

Loss rate: 0.36%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-06-28 16:25:40

End at: 2019-06-28 16:26:10

Local clock offset: 0.067 ms

Remote clock offset: -0.089 ms

Below is generated by plot.py at 2019-06-28 19:13:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.41 Mbit/s

95th percentile per-packet one-way delay: 48.960 ms

Loss rate: 0.35%

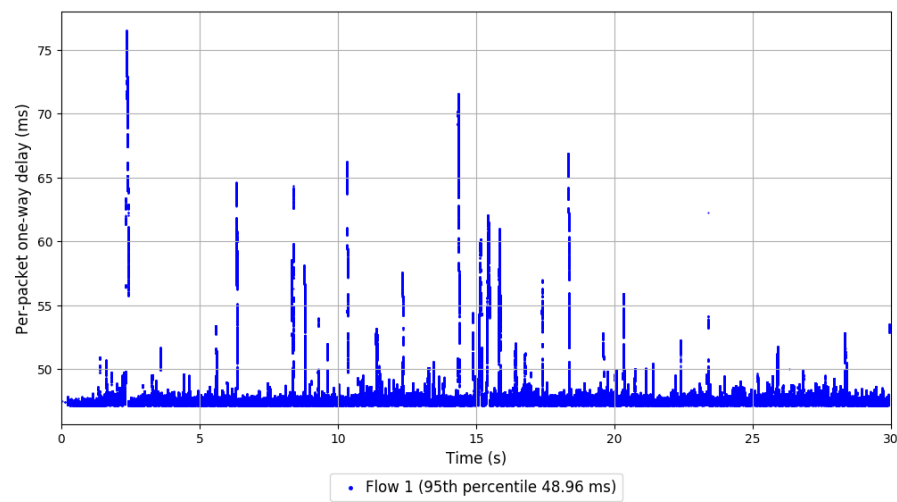
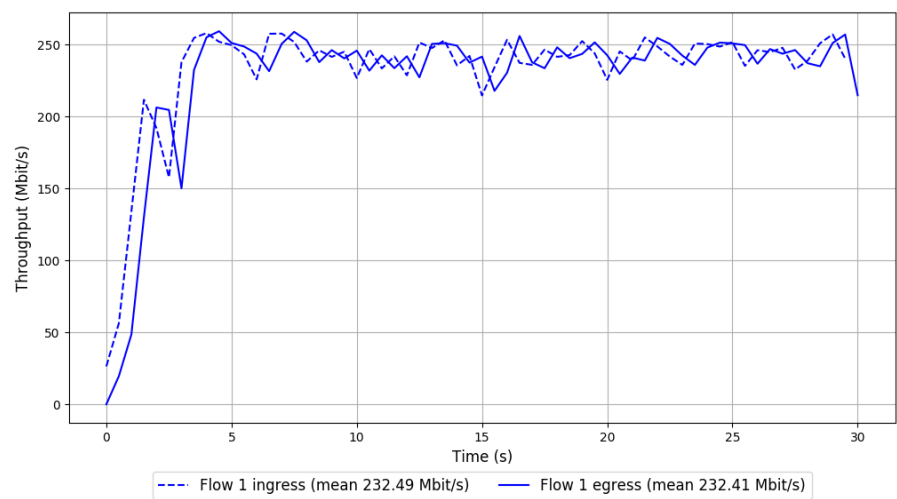
-- Flow 1:

Average throughput: 232.41 Mbit/s

95th percentile per-packet one-way delay: 48.960 ms

Loss rate: 0.35%

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

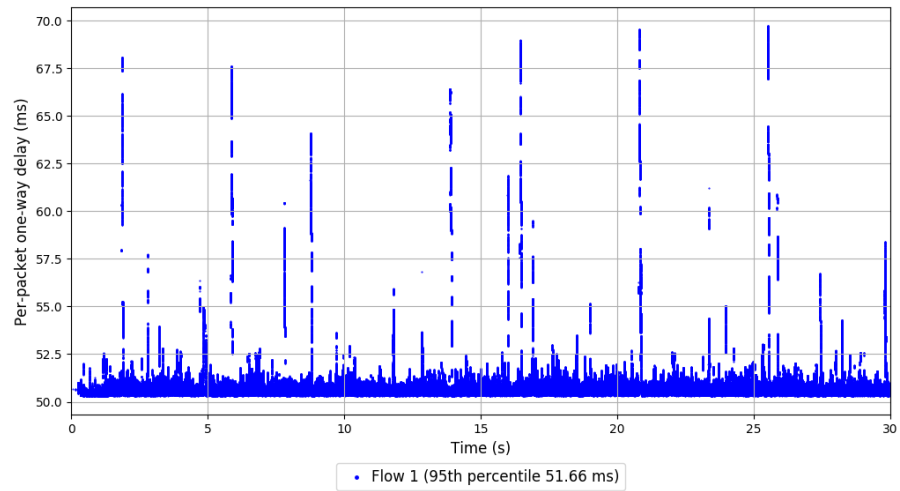
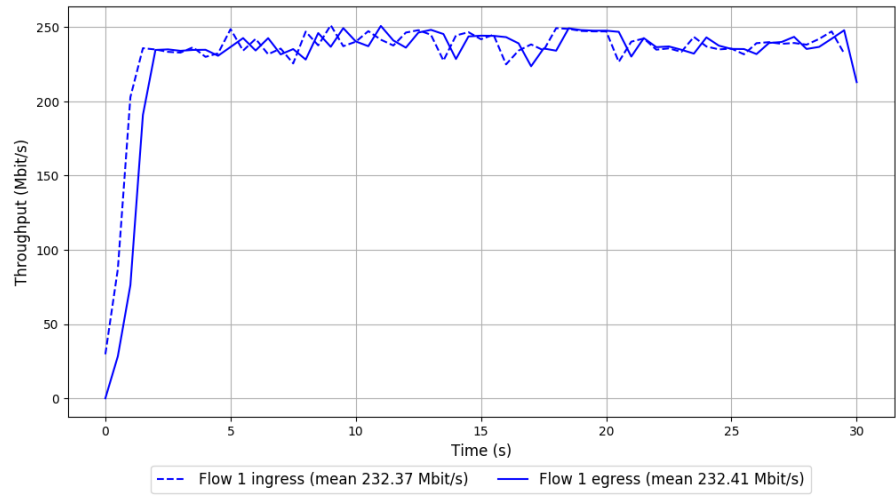


Run 5: Statistics of TaoVA-100x

Start at: 2019-06-28 16:56:41
End at: 2019-06-28 16:57:11
Local clock offset: 0.411 ms
Remote clock offset: -0.045 ms

Below is generated by plot.py at 2019-06-28 19:14:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 232.41 Mbit/s
95th percentile per-packet one-way delay: 51.661 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 232.41 Mbit/s
95th percentile per-packet one-way delay: 51.661 ms
Loss rate: 0.31%

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

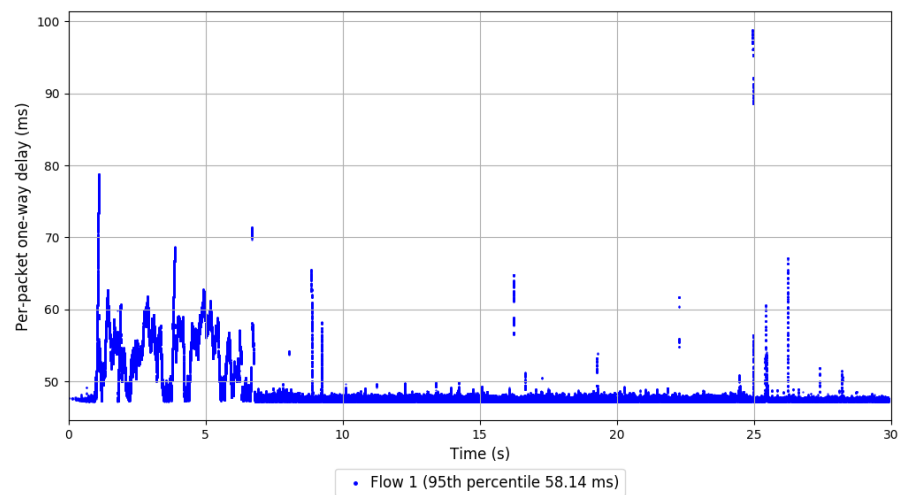
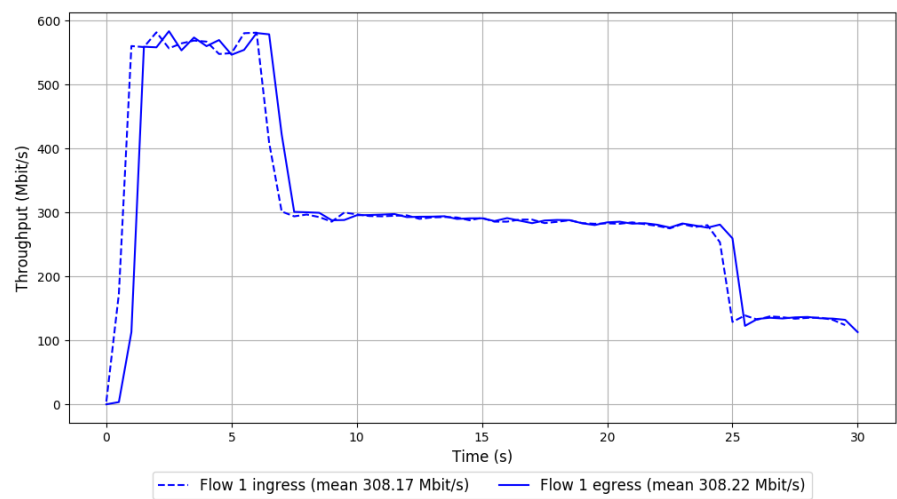


Run 1: Statistics of TCP Vegas

Start at: 2019-06-28 15:10:46
End at: 2019-06-28 15:11:17
Local clock offset: -0.076 ms
Remote clock offset: -0.115 ms

Below is generated by plot.py at 2019-06-28 19:14:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 308.22 Mbit/s
95th percentile per-packet one-way delay: 58.142 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 308.22 Mbit/s
95th percentile per-packet one-way delay: 58.142 ms
Loss rate: 0.30%

Run 1: Report of TCP Vegas — Data Link

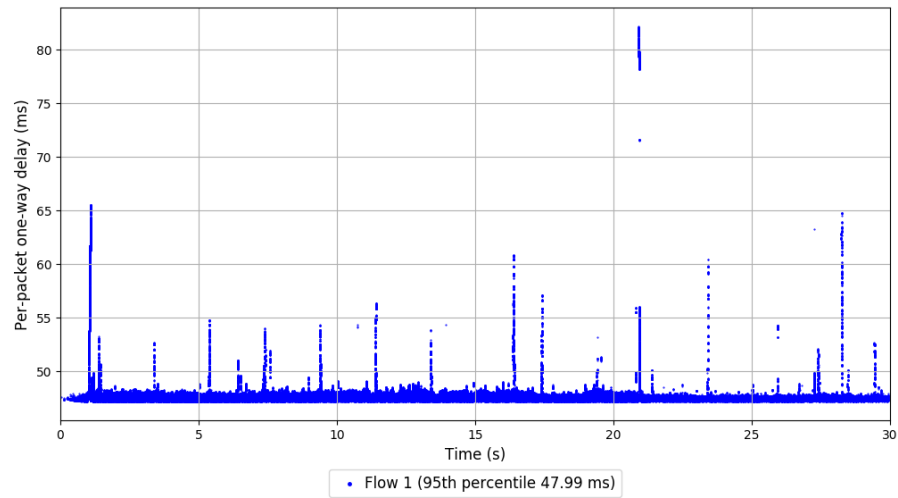
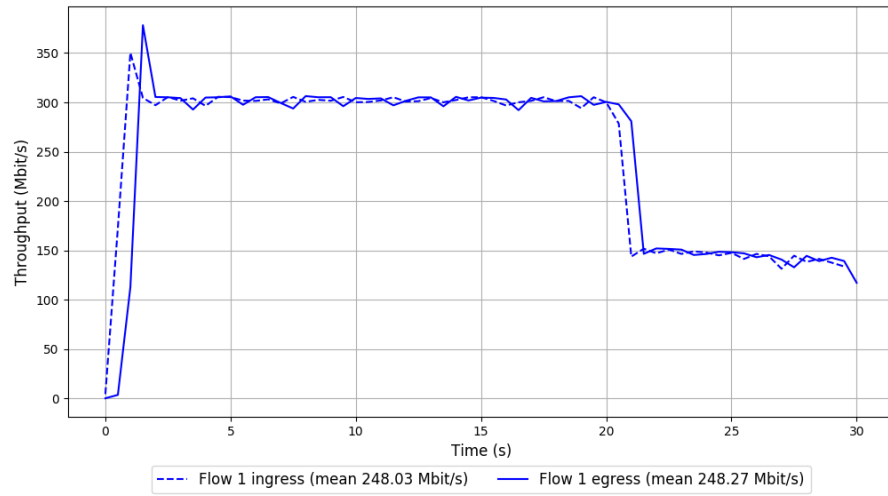


Run 2: Statistics of TCP Vegas

Start at: 2019-06-28 15:42:32
End at: 2019-06-28 15:43:02
Local clock offset: -0.035 ms
Remote clock offset: -0.142 ms

Below is generated by plot.py at 2019-06-28 19:14:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 248.27 Mbit/s
95th percentile per-packet one-way delay: 47.986 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 248.27 Mbit/s
95th percentile per-packet one-way delay: 47.986 ms
Loss rate: 0.22%

Run 2: Report of TCP Vegas — Data Link

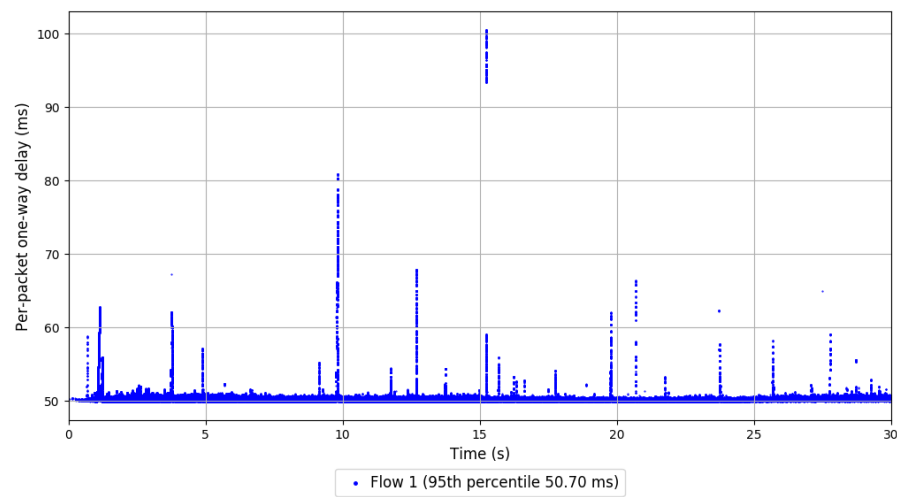
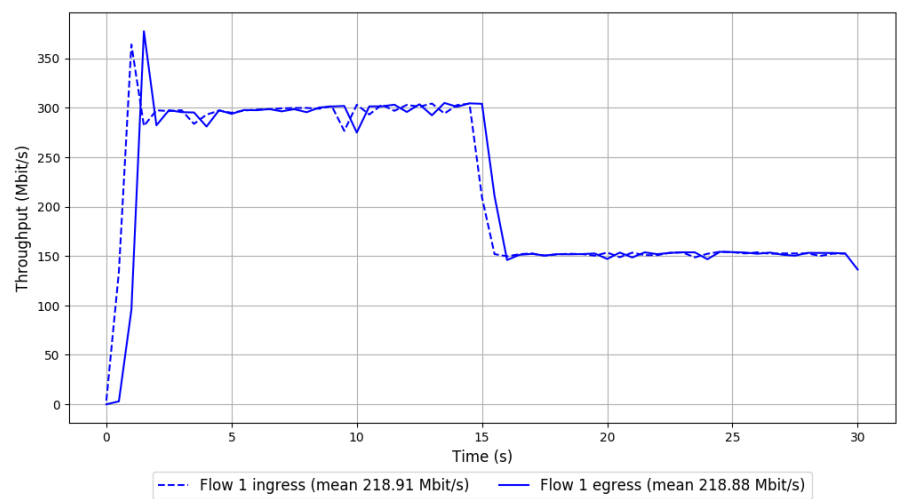


Run 3: Statistics of TCP Vegas

Start at: 2019-06-28 16:14:08
End at: 2019-06-28 16:14:38
Local clock offset: 0.038 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2019-06-28 19:14:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 218.88 Mbit/s
95th percentile per-packet one-way delay: 50.696 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 218.88 Mbit/s
95th percentile per-packet one-way delay: 50.696 ms
Loss rate: 0.34%

Run 3: Report of TCP Vegas — Data Link

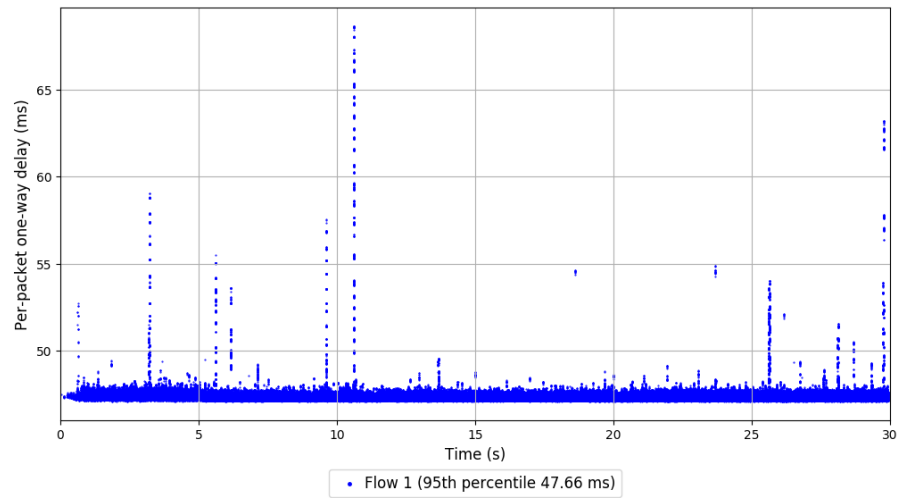
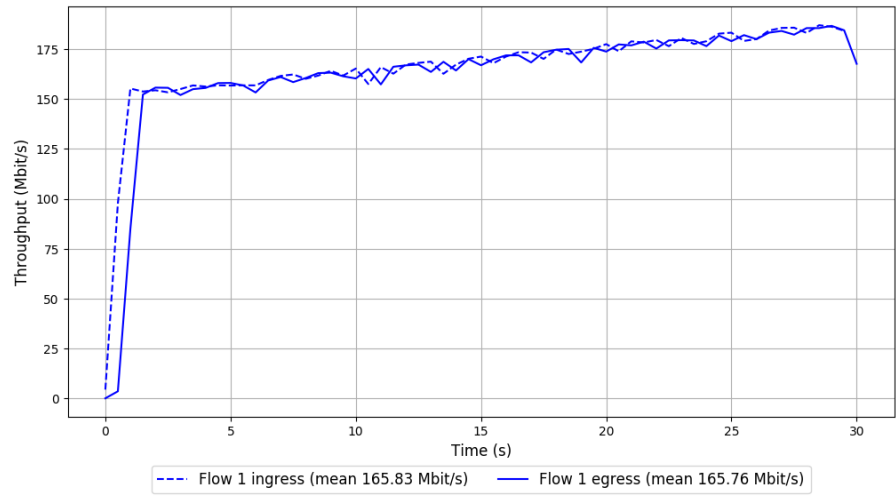


Run 4: Statistics of TCP Vegas

Start at: 2019-06-28 16:45:28
End at: 2019-06-28 16:45:58
Local clock offset: 0.134 ms
Remote clock offset: -0.104 ms

Below is generated by plot.py at 2019-06-28 19:14:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 165.76 Mbit/s
95th percentile per-packet one-way delay: 47.657 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 165.76 Mbit/s
95th percentile per-packet one-way delay: 47.657 ms
Loss rate: 0.36%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-06-28 17:16:39

End at: 2019-06-28 17:17:09

Local clock offset: 0.079 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2019-06-28 19:15:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.63 Mbit/s

95th percentile per-packet one-way delay: 47.926 ms

Loss rate: 0.25%

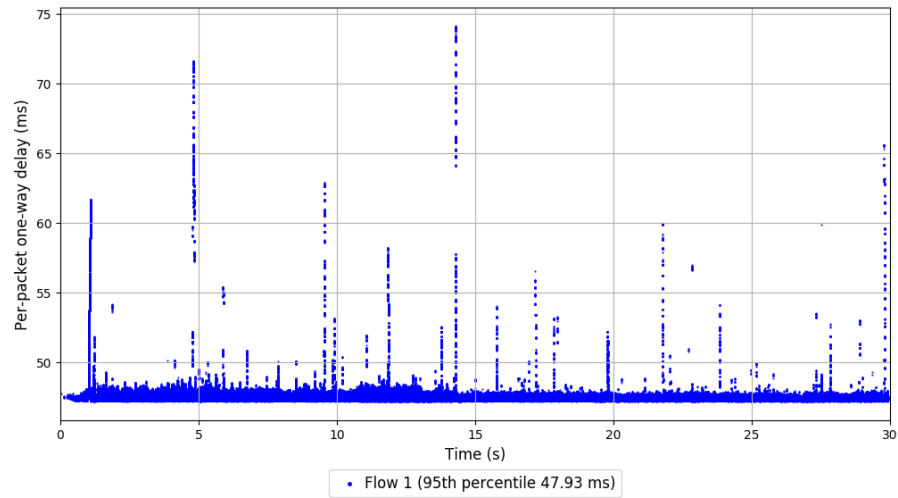
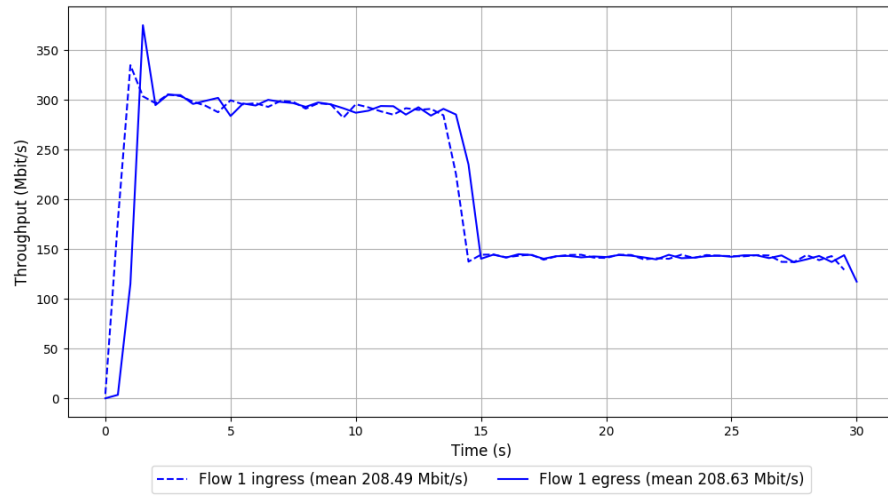
-- Flow 1:

Average throughput: 208.63 Mbit/s

95th percentile per-packet one-way delay: 47.926 ms

Loss rate: 0.25%

Run 5: Report of TCP Vegas — Data Link

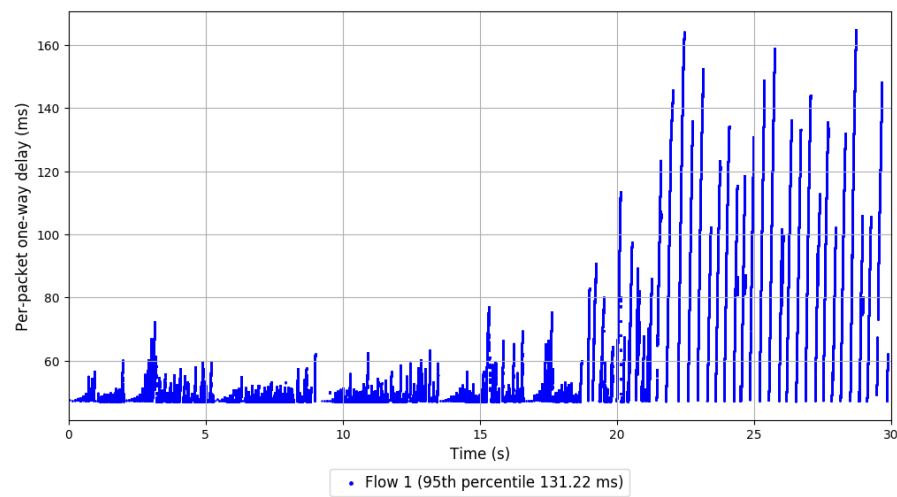
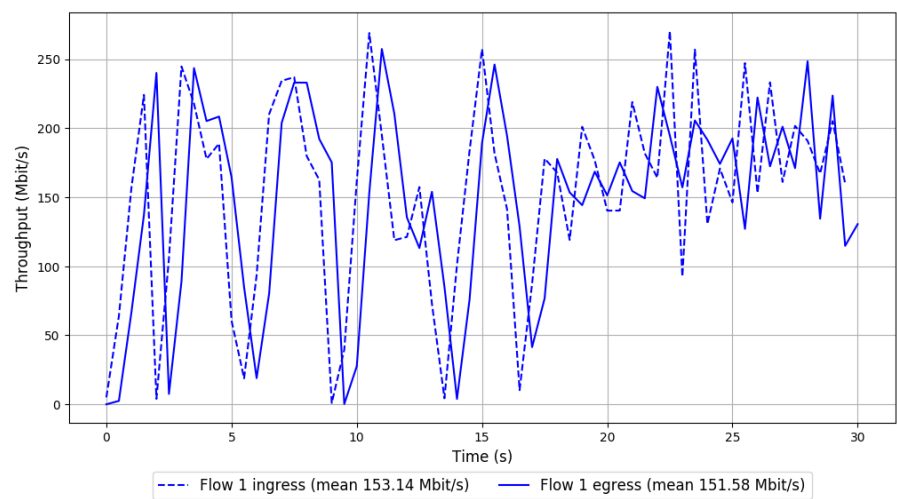


Run 1: Statistics of Verus

Start at: 2019-06-28 15:12:09
End at: 2019-06-28 15:12:39
Local clock offset: -0.092 ms
Remote clock offset: -0.142 ms

Below is generated by plot.py at 2019-06-28 19:19:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 151.58 Mbit/s
95th percentile per-packet one-way delay: 131.225 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 151.58 Mbit/s
95th percentile per-packet one-way delay: 131.225 ms
Loss rate: 1.31%

Run 1: Report of Verus — Data Link

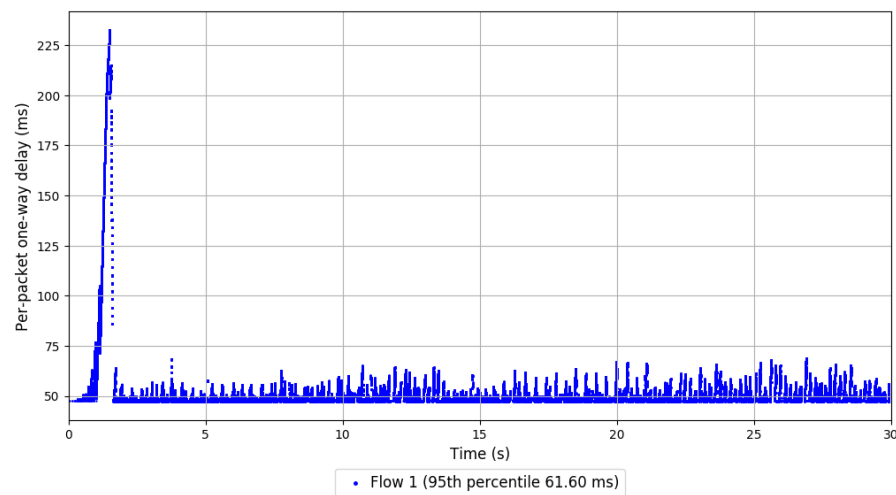
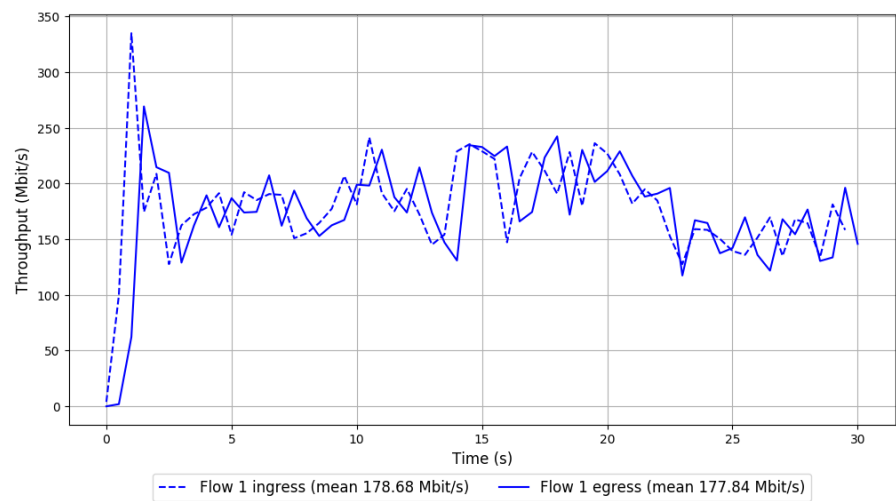


Run 2: Statistics of Verus

Start at: 2019-06-28 15:43:52
End at: 2019-06-28 15:44:22
Local clock offset: 0.005 ms
Remote clock offset: -0.112 ms

Below is generated by plot.py at 2019-06-28 19:20:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 177.84 Mbit/s
95th percentile per-packet one-way delay: 61.597 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 177.84 Mbit/s
95th percentile per-packet one-way delay: 61.597 ms
Loss rate: 0.73%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-06-28 16:15:26

End at: 2019-06-28 16:15:56

Local clock offset: 0.074 ms

Remote clock offset: 0.0 ms

Below is generated by plot.py at 2019-06-28 19:20:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.59 Mbit/s

95th percentile per-packet one-way delay: 151.182 ms

Loss rate: 0.10%

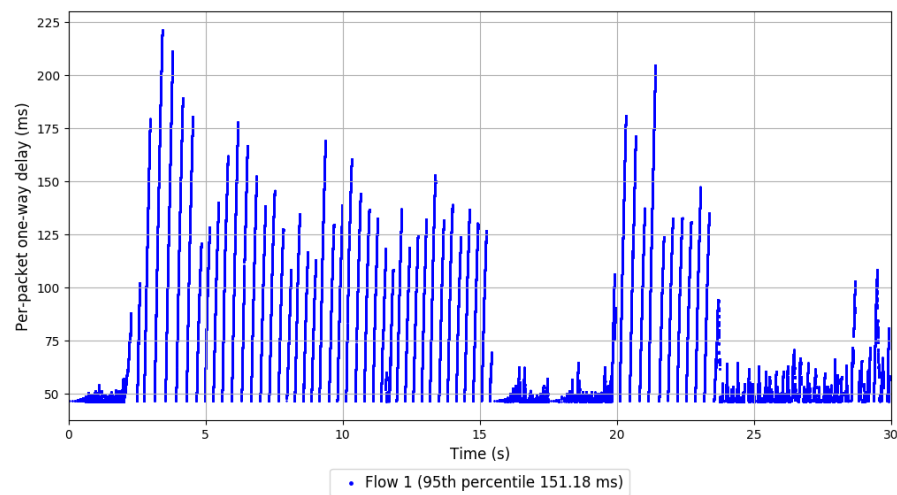
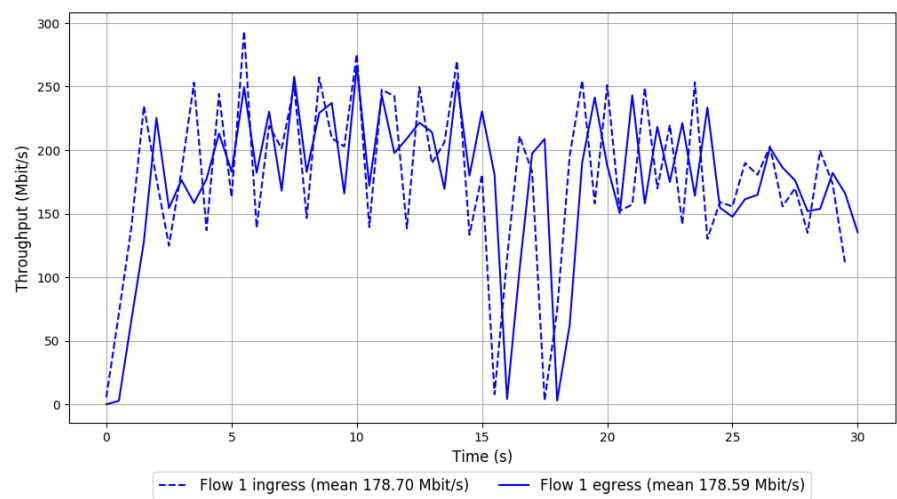
-- Flow 1:

Average throughput: 178.59 Mbit/s

95th percentile per-packet one-way delay: 151.182 ms

Loss rate: 0.10%

Run 3: Report of Verus — Data Link

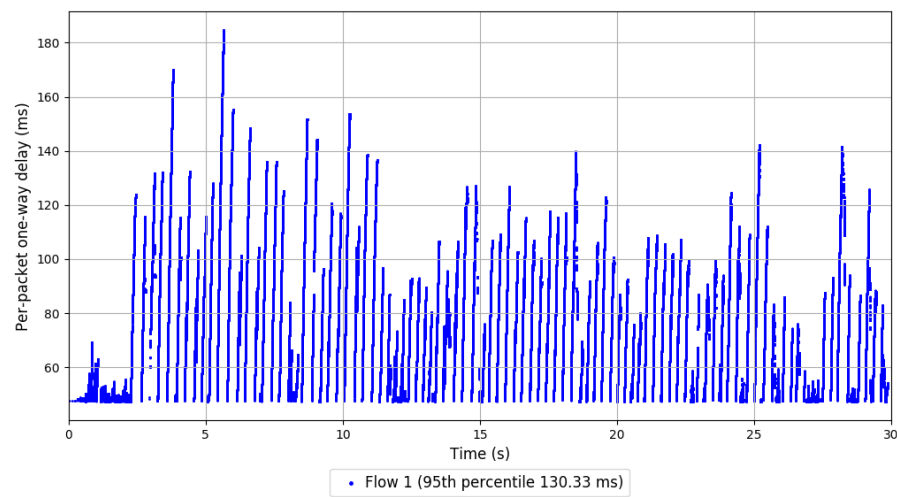
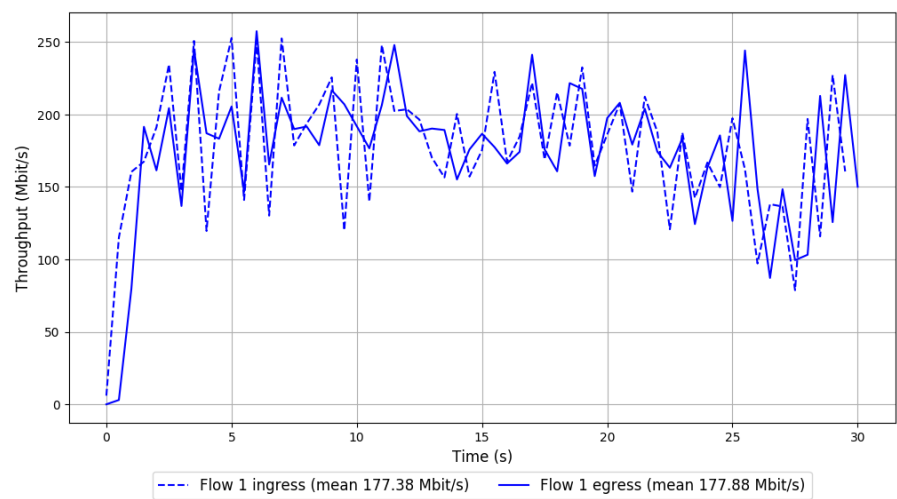


Run 4: Statistics of Verus

Start at: 2019-06-28 16:46:44
End at: 2019-06-28 16:47:14
Local clock offset: 0.12 ms
Remote clock offset: -0.024 ms

Below is generated by plot.py at 2019-06-28 19:20:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 177.88 Mbit/s
95th percentile per-packet one-way delay: 130.334 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 177.88 Mbit/s
95th percentile per-packet one-way delay: 130.334 ms
Loss rate: 0.10%

Run 4: Report of Verus — Data Link

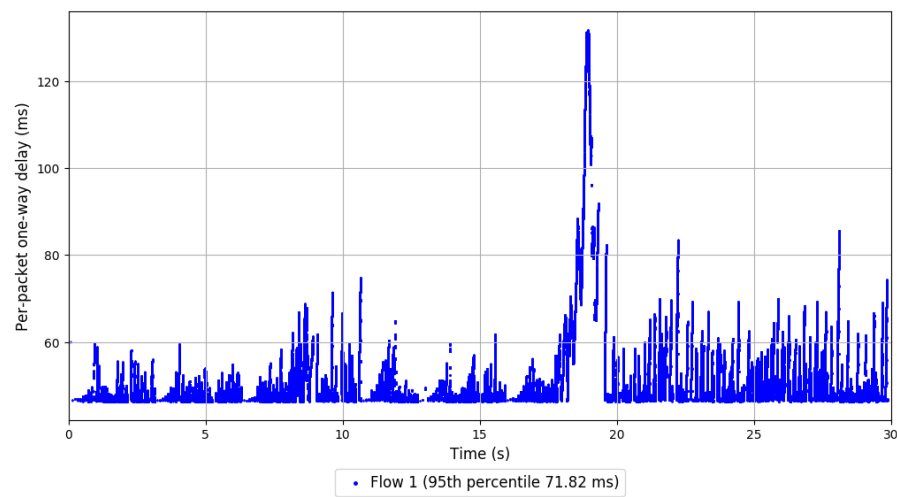
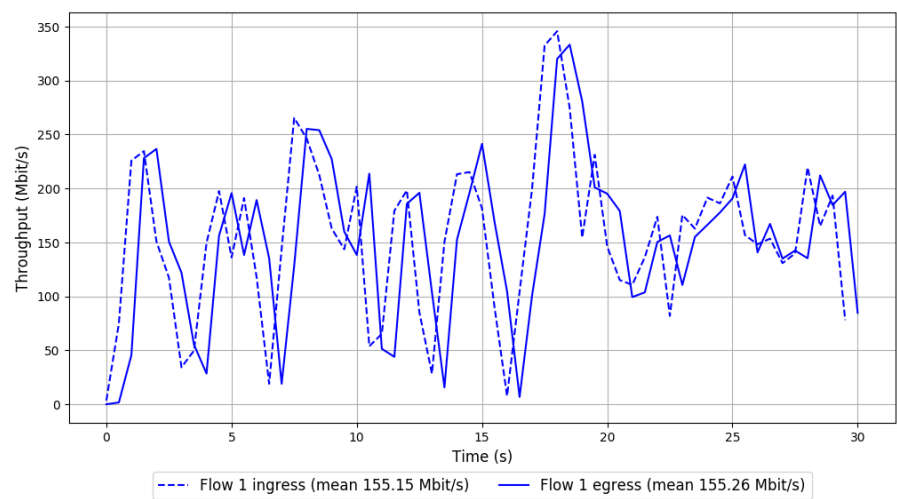


Run 5: Statistics of Verus

Start at: 2019-06-28 17:17:57
End at: 2019-06-28 17:18:27
Local clock offset: 0.001 ms
Remote clock offset: -0.054 ms

Below is generated by plot.py at 2019-06-28 19:20:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 155.26 Mbit/s
95th percentile per-packet one-way delay: 71.819 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 155.26 Mbit/s
95th percentile per-packet one-way delay: 71.819 ms
Loss rate: 0.01%

Run 5: Report of Verus — Data Link

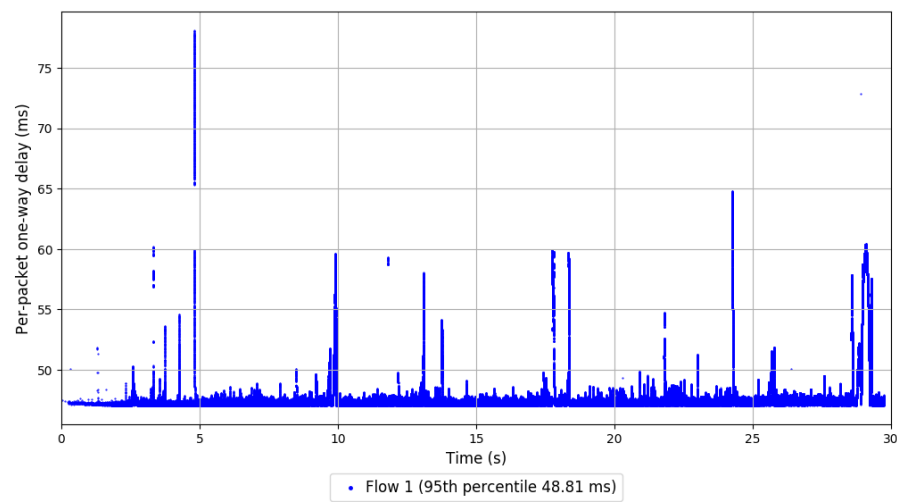
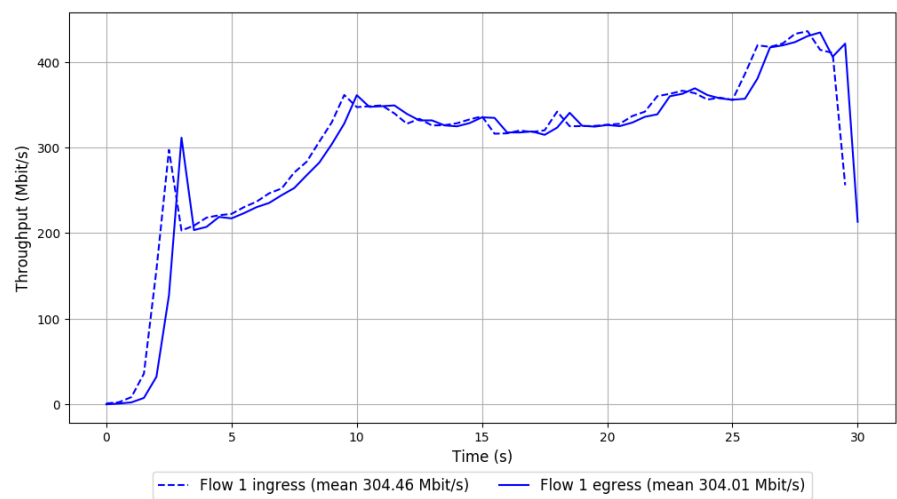


Run 1: Statistics of PCC-Vivace

Start at: 2019-06-28 15:07:48
End at: 2019-06-28 15:08:18
Local clock offset: -0.027 ms
Remote clock offset: -0.098 ms

Below is generated by plot.py at 2019-06-28 19:20:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 304.01 Mbit/s
95th percentile per-packet one-way delay: 48.813 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 304.01 Mbit/s
95th percentile per-packet one-way delay: 48.813 ms
Loss rate: 0.47%

Run 1: Report of PCC-Vivace — Data Link

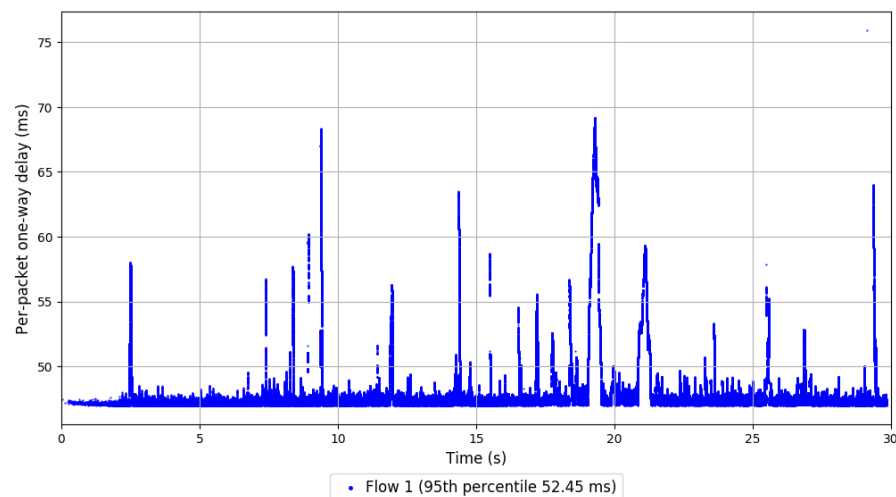
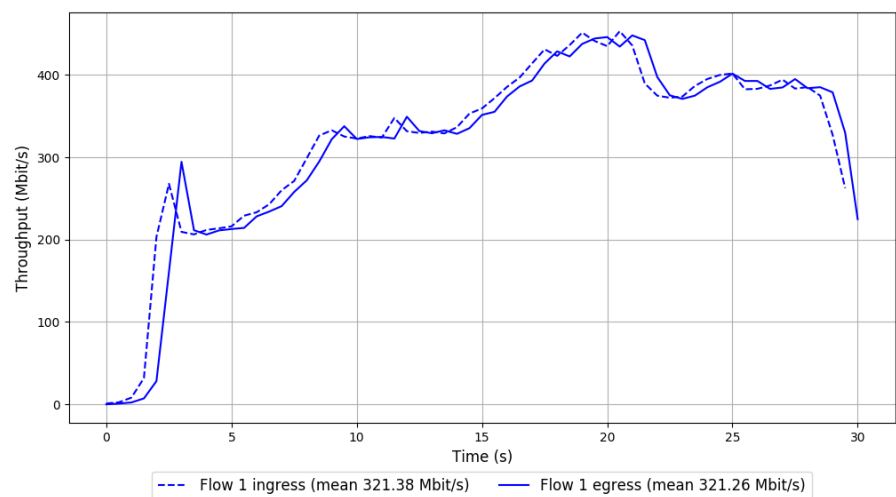


Run 2: Statistics of PCC-Vivace

Start at: 2019-06-28 15:39:29
End at: 2019-06-28 15:39:59
Local clock offset: -0.085 ms
Remote clock offset: -0.133 ms

Below is generated by plot.py at 2019-06-28 19:20:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 321.26 Mbit/s
95th percentile per-packet one-way delay: 52.449 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 321.26 Mbit/s
95th percentile per-packet one-way delay: 52.449 ms
Loss rate: 0.36%

Run 2: Report of PCC-Vivace — Data Link

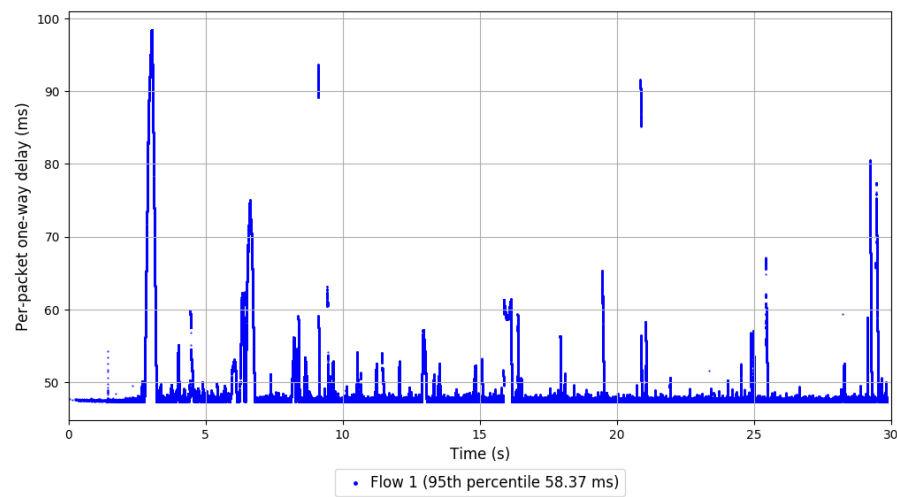
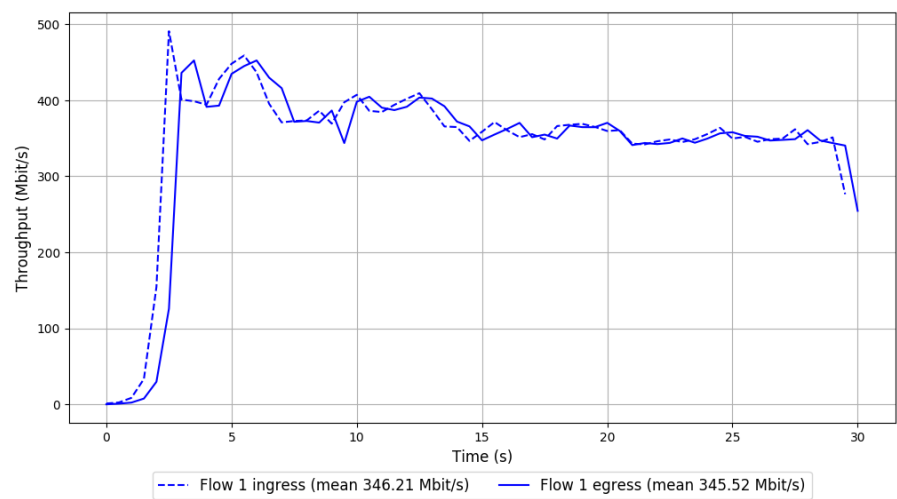


Run 3: Statistics of PCC-Vivace

Start at: 2019-06-28 16:11:02
End at: 2019-06-28 16:11:32
Local clock offset: 0.389 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2019-06-28 19:21:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 345.52 Mbit/s
95th percentile per-packet one-way delay: 58.365 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 345.52 Mbit/s
95th percentile per-packet one-way delay: 58.365 ms
Loss rate: 0.52%

Run 3: Report of PCC-Vivace — Data Link

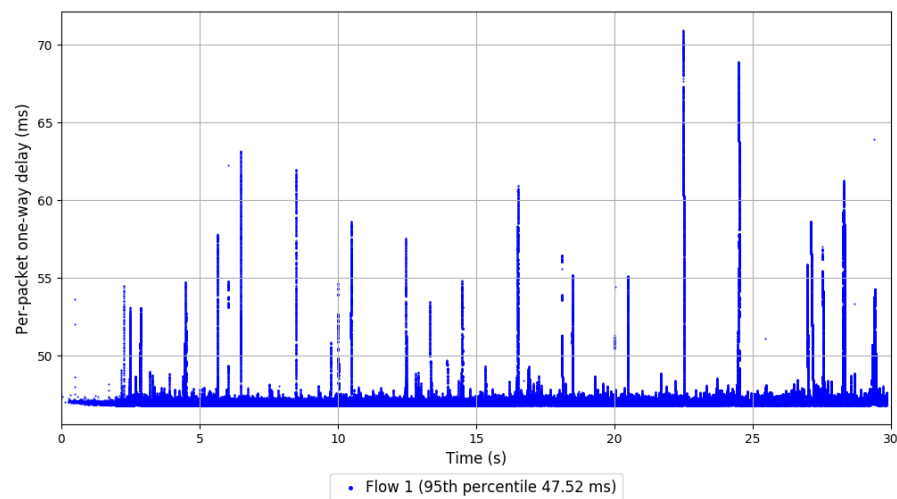
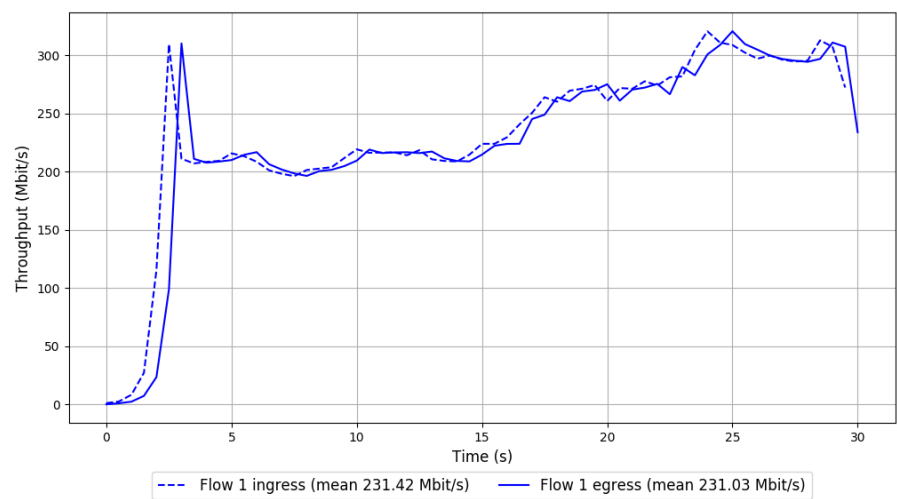


Run 4: Statistics of PCC-Vivace

Start at: 2019-06-28 16:42:34
End at: 2019-06-28 16:43:04
Local clock offset: -0.268 ms
Remote clock offset: -0.068 ms

Below is generated by plot.py at 2019-06-28 19:21:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 231.03 Mbit/s
95th percentile per-packet one-way delay: 47.523 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 231.03 Mbit/s
95th percentile per-packet one-way delay: 47.523 ms
Loss rate: 0.49%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-06-28 17:13:36

End at: 2019-06-28 17:14:06

Local clock offset: 0.049 ms

Remote clock offset: -0.053 ms

Below is generated by plot.py at 2019-06-28 19:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 328.14 Mbit/s

95th percentile per-packet one-way delay: 52.571 ms

Loss rate: 0.43%

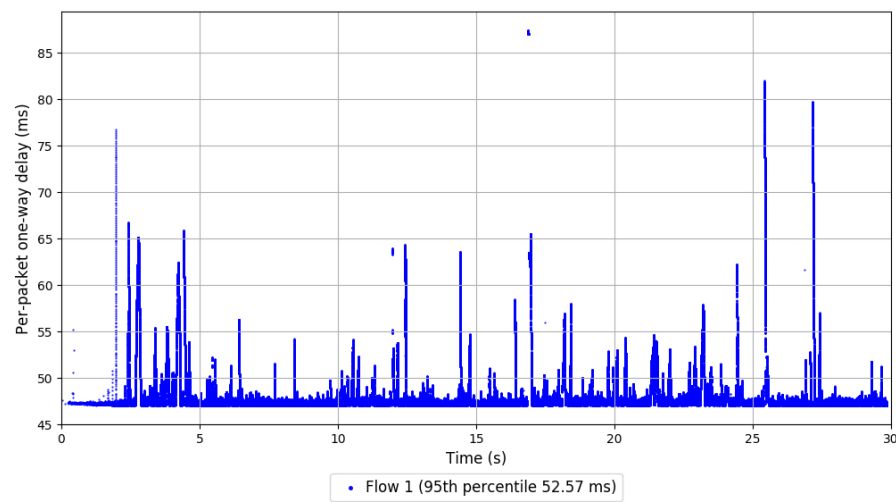
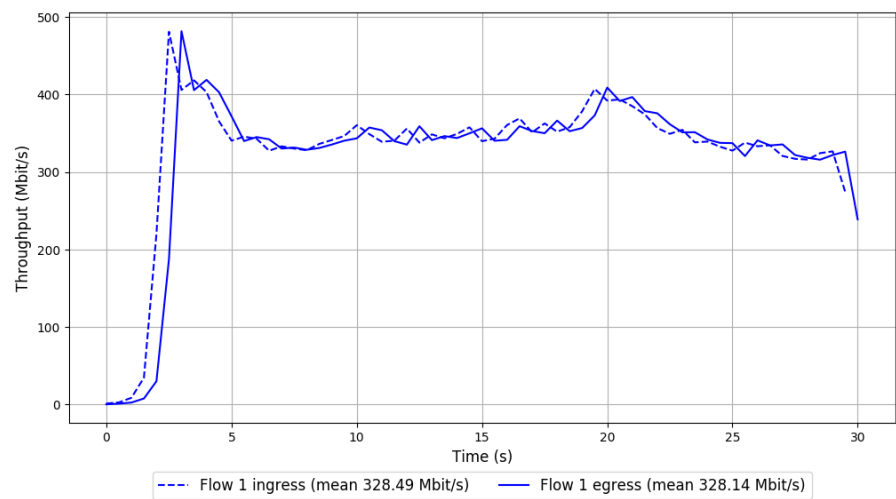
-- Flow 1:

Average throughput: 328.14 Mbit/s

95th percentile per-packet one-way delay: 52.571 ms

Loss rate: 0.43%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

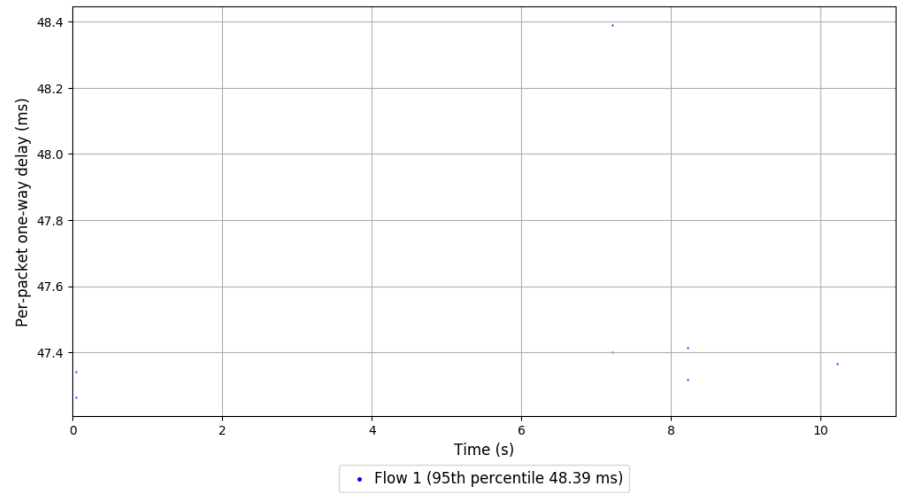
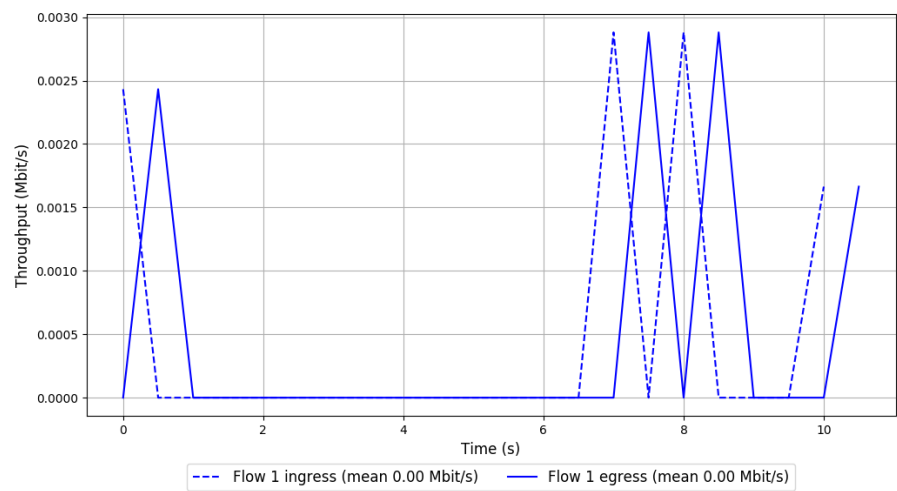
Start at: 2019-06-28 14:58:47

End at: 2019-06-28 14:59:17

Local clock offset: -0.143 ms

Remote clock offset: -0.129 ms

Run 1: Report of WebRTC media — Data Link

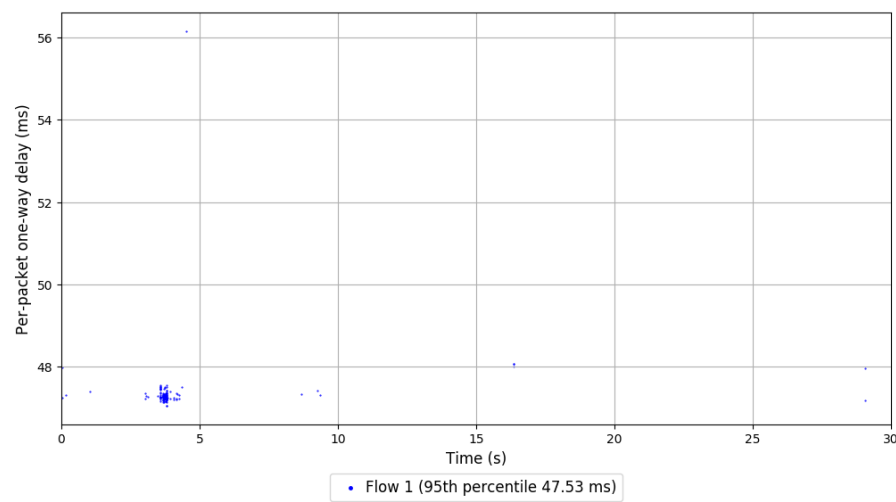
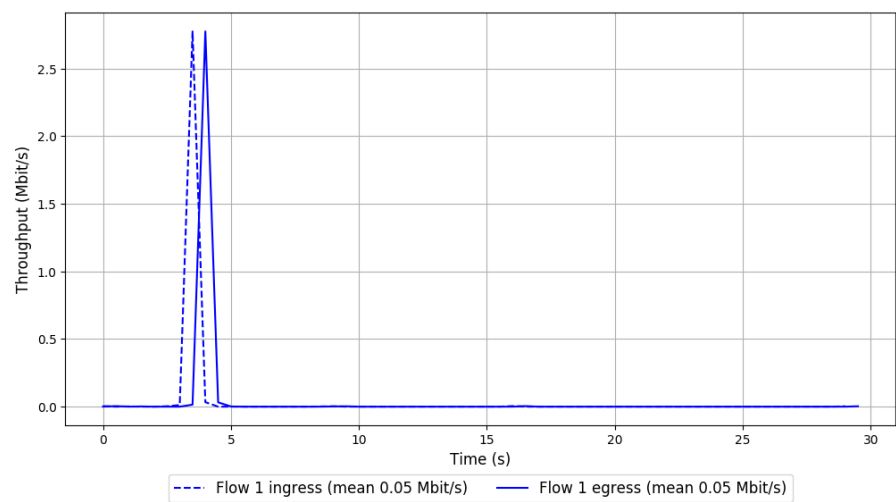


Run 2: Statistics of WebRTC media

Start at: 2019-06-28 15:30:21
End at: 2019-06-28 15:30:51
Local clock offset: -0.056 ms
Remote clock offset: -0.169 ms

Below is generated by plot.py at 2019-06-28 19:21:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.530 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.530 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-06-28 16:01:48

End at: 2019-06-28 16:02:18

Local clock offset: 0.033 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2019-06-28 19:21:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 47.656 ms

Loss rate: 0.00%

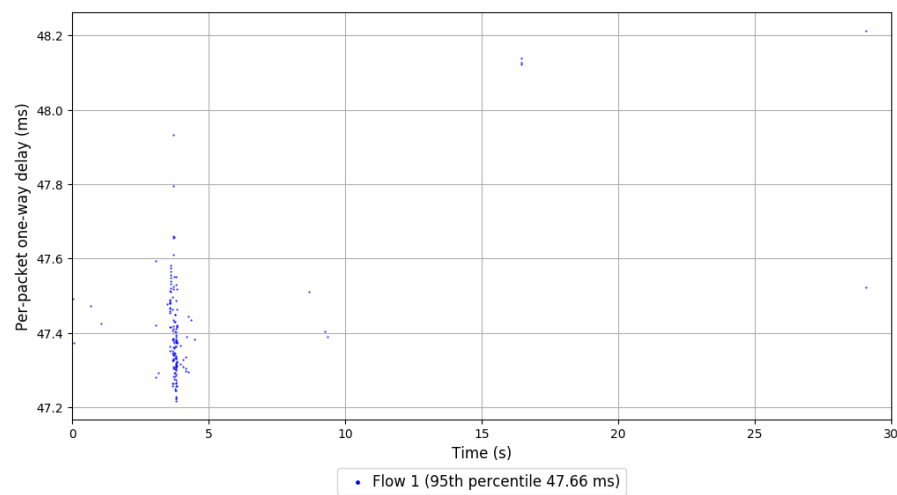
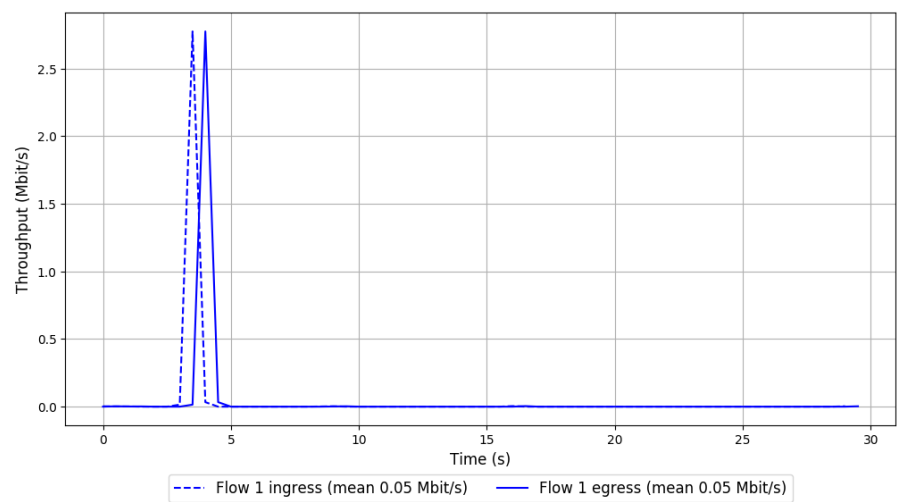
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 47.656 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

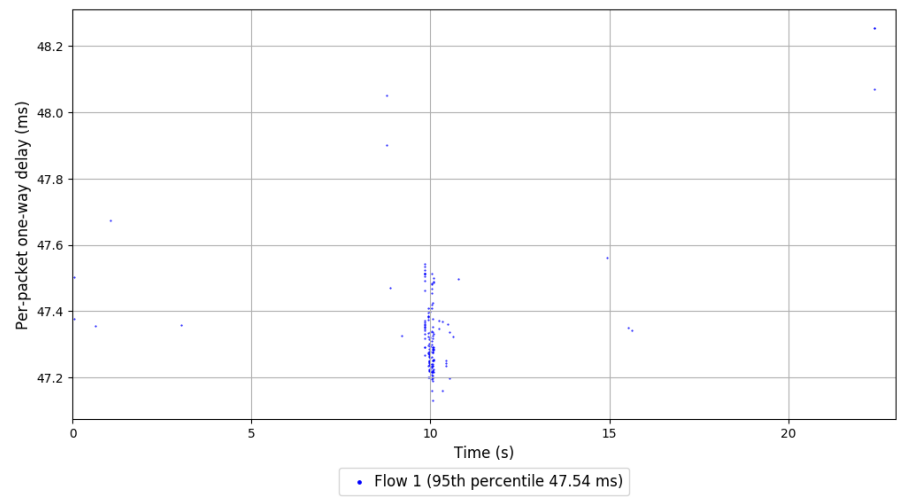
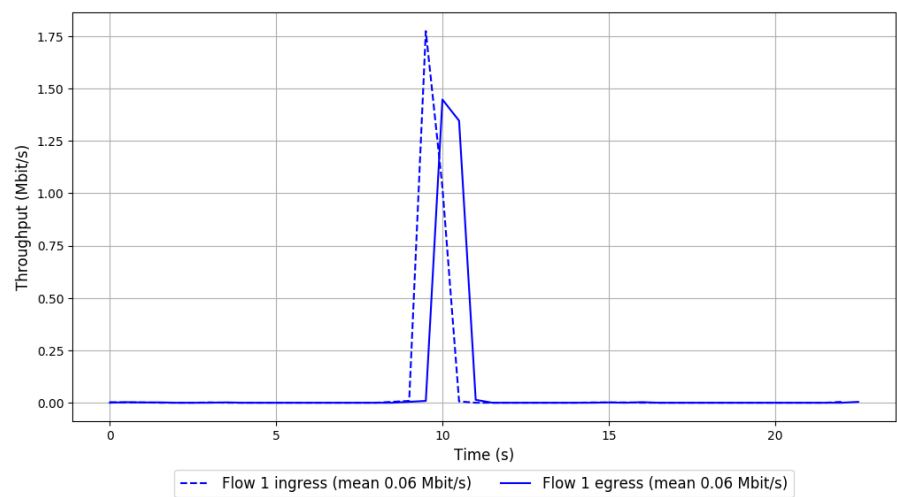
Start at: 2019-06-28 16:33:25

End at: 2019-06-28 16:33:55

Local clock offset: 0.063 ms

Remote clock offset: -0.034 ms

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-06-28 17:04:30
End at: 2019-06-28 17:05:00
Local clock offset: 0.058 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2019-06-28 19:21:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.476 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.476 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

