

Pantheon Report

Generated at 2019-09-19 03:35:03 (UTC).

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

Repeated the test of 24 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

System info:

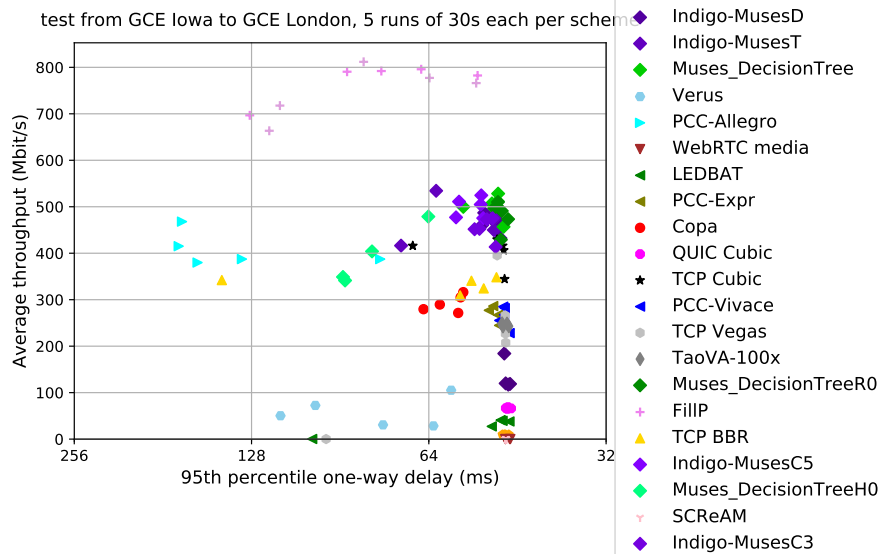
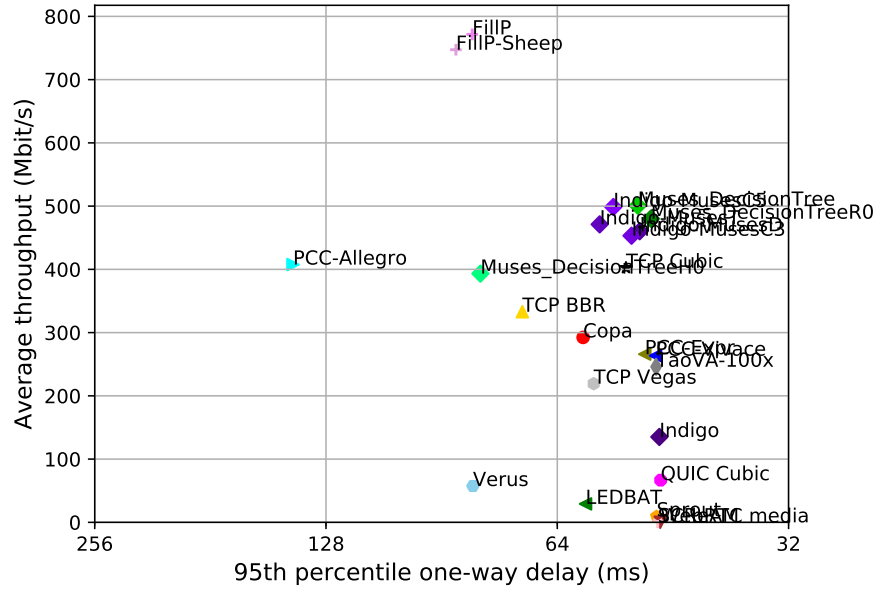
```
Linux 4.15.0-1040-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

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

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

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



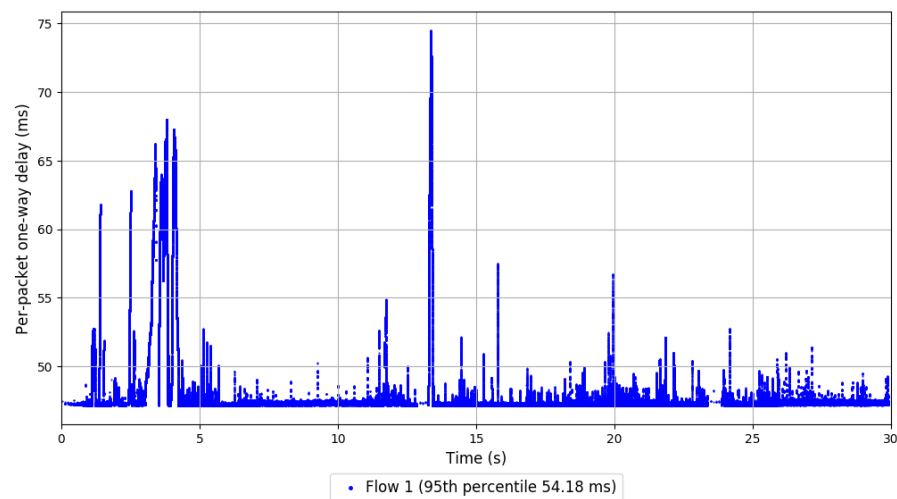
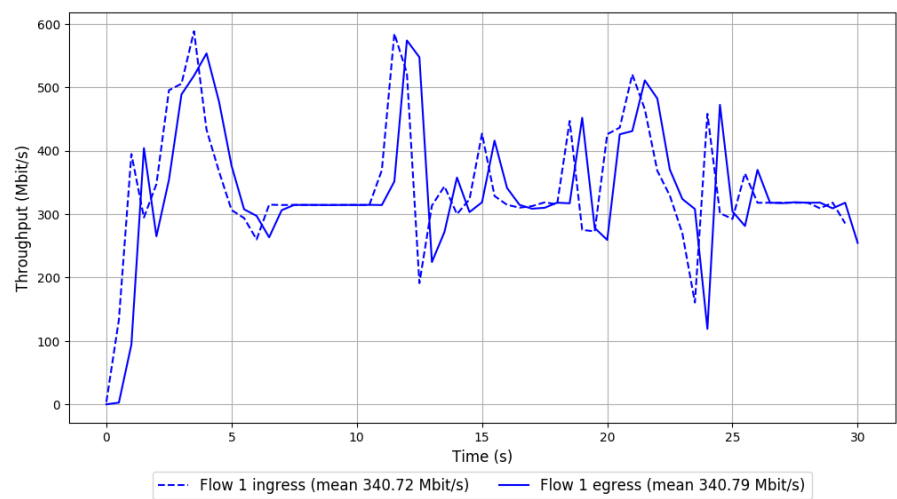
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	332.98	71.07	0.32
Copa	5	292.40	59.23	0.34
TCP Cubic	5	402.50	52.09	0.32
FillP	5	771.52	82.58	0.60
FillP-Sheep	5	747.26	86.72	0.60
Indigo	4	135.03	47.14	0.34
Indigo-MusesC3	5	453.18	51.24	0.34
Indigo-MusesC5	5	498.61	54.10	0.39
Indigo-MusesD	5	460.27	50.00	0.35
Indigo-MusesT	5	471.13	56.36	0.52
LEDBAT	5	29.16	58.81	2.06
Muses_DecisionTree	5	500.74	50.28	0.34
Muses_DecisionTreeH0	4	393.25	80.59	0.34
Muses_DecisionTreeR0	5	480.09	48.35	0.35
PCC-Allegro	5	407.55	141.30	2.49
PCC-Expr	5	265.92	49.24	0.32
QUIC Cubic	4	66.67	46.95	0.32
SCReAM	5	0.22	47.37	0.28
Sprout	5	9.41	47.53	0.34
TaoVA-100x	5	246.00	47.60	0.33
TCP Vegas	5	219.21	57.39	4.01
Verus	5	57.43	82.41	0.01
PCC-Vivace	5	263.54	47.67	0.37
WebRTC media	4	0.05	47.01	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-09-18 22:58:52
End at: 2019-09-18 22:59:22
Local clock offset: -0.119 ms
Remote clock offset: -0.004 ms

Below is generated by plot.py at 2019-09-19 01:56:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 340.79 Mbit/s
95th percentile per-packet one-way delay: 54.179 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 340.79 Mbit/s
95th percentile per-packet one-way delay: 54.179 ms
Loss rate: 0.30%

Run 1: Report of TCP BBR — Data Link

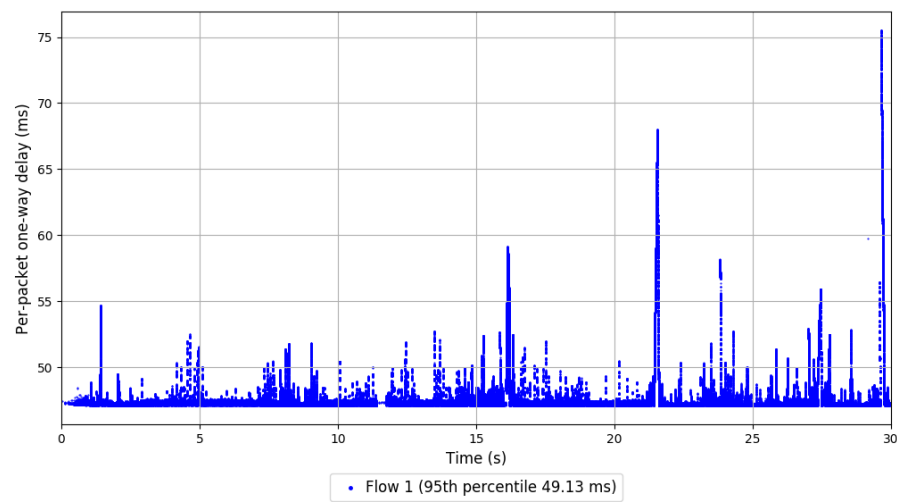
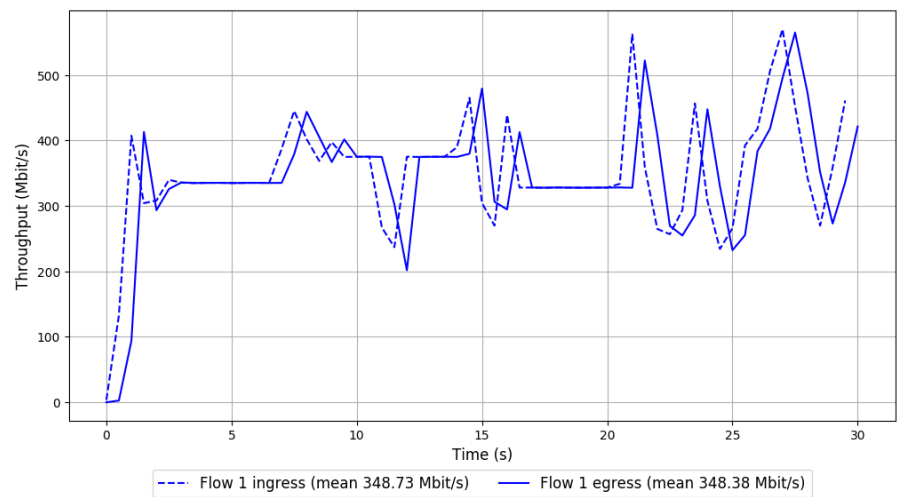


Run 2: Statistics of TCP BBR

Start at: 2019-09-18 23:31:58
End at: 2019-09-18 23:32:28
Local clock offset: -0.108 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2019-09-19 01:56:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 348.38 Mbit/s
95th percentile per-packet one-way delay: 49.126 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 348.38 Mbit/s
95th percentile per-packet one-way delay: 49.126 ms
Loss rate: 0.42%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-09-19 00:05:34

End at: 2019-09-19 00:06:04

Local clock offset: -0.117 ms

Remote clock offset: -0.075 ms

Below is generated by plot.py at 2019-09-19 01:56:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 309.19 Mbit/s

95th percentile per-packet one-way delay: 56.620 ms

Loss rate: 0.23%

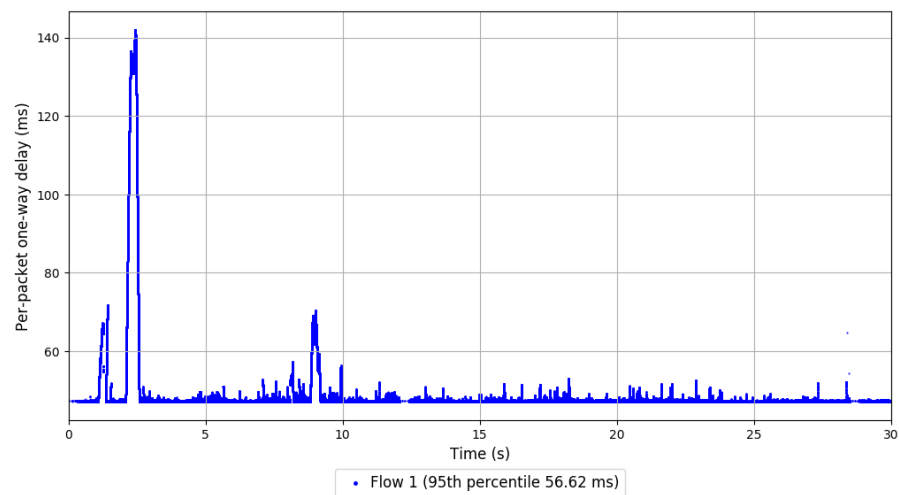
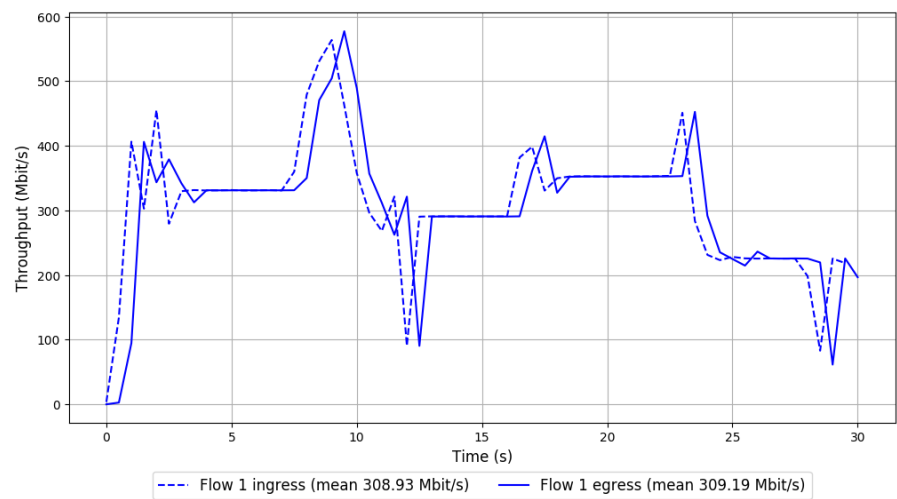
-- Flow 1:

Average throughput: 309.19 Mbit/s

95th percentile per-packet one-way delay: 56.620 ms

Loss rate: 0.23%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-09-19 00:38:53

End at: 2019-09-19 00:39:23

Local clock offset: -0.188 ms

Remote clock offset: -0.01 ms

Below is generated by plot.py at 2019-09-19 01:56:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 342.18 Mbit/s

95th percentile per-packet one-way delay: 143.768 ms

Loss rate: 0.45%

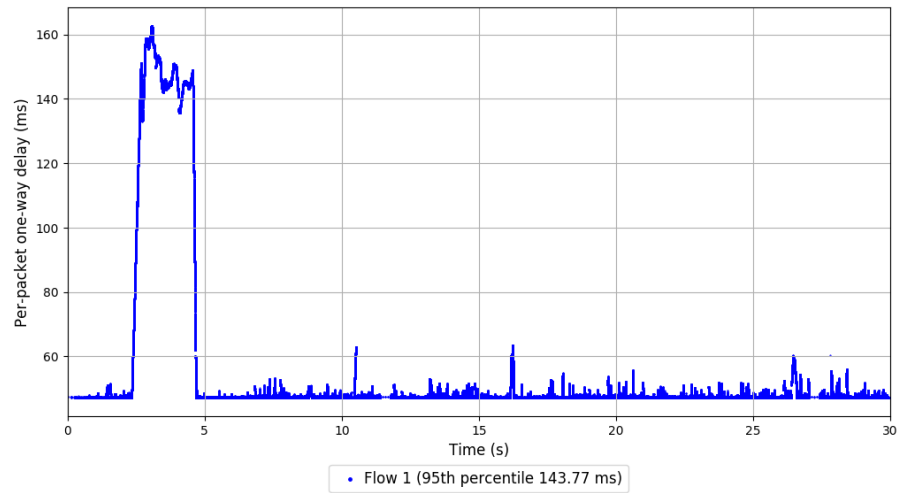
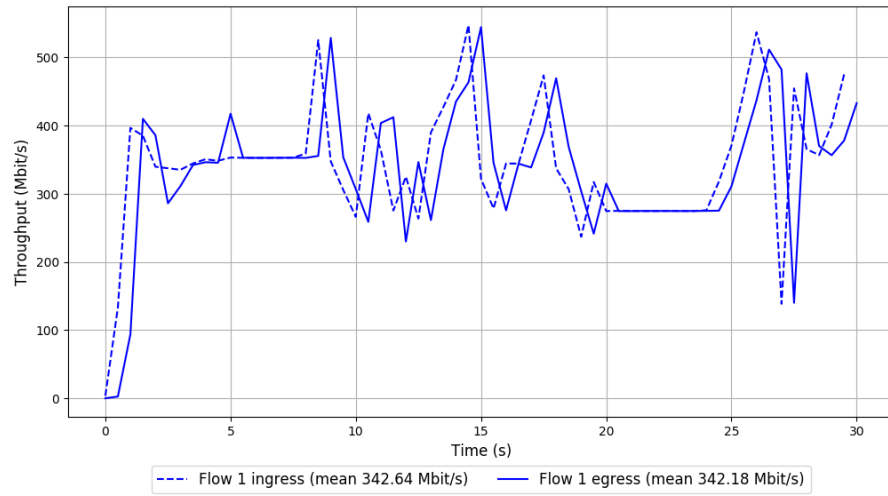
-- Flow 1:

Average throughput: 342.18 Mbit/s

95th percentile per-packet one-way delay: 143.768 ms

Loss rate: 0.45%

Run 4: Report of TCP BBR — Data Link

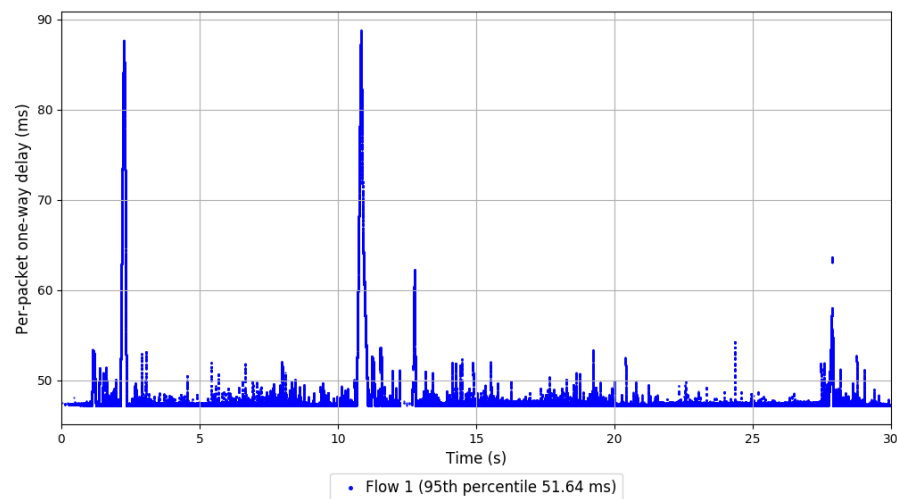
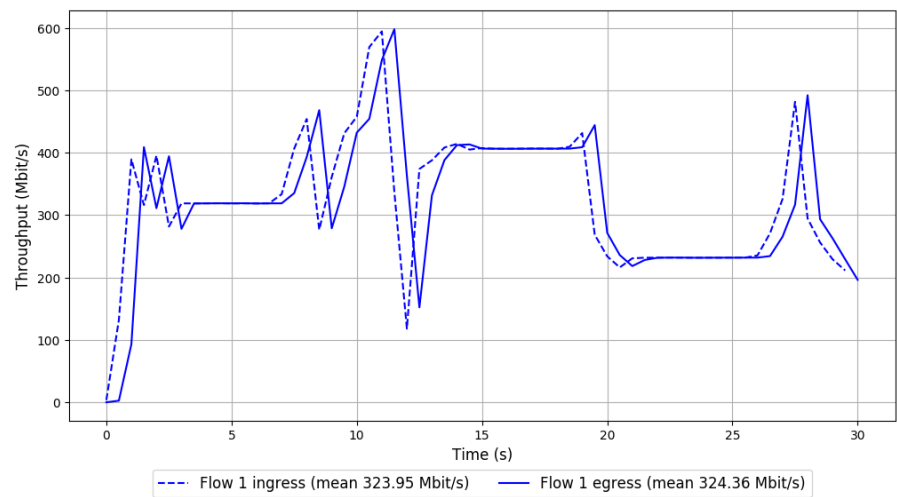


Run 5: Statistics of TCP BBR

Start at: 2019-09-19 01:12:26
End at: 2019-09-19 01:12:56
Local clock offset: -0.182 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2019-09-19 01:56:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 324.36 Mbit/s
95th percentile per-packet one-way delay: 51.643 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 324.36 Mbit/s
95th percentile per-packet one-way delay: 51.643 ms
Loss rate: 0.19%

Run 5: Report of TCP BBR — Data Link

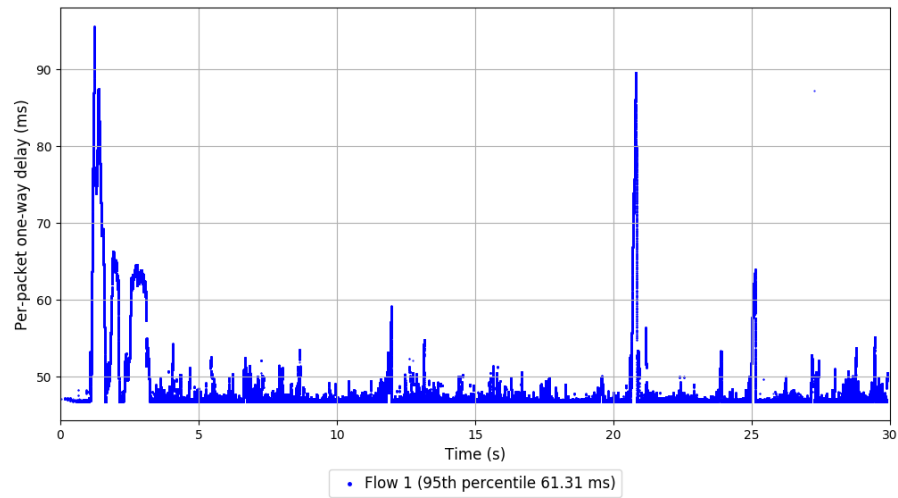
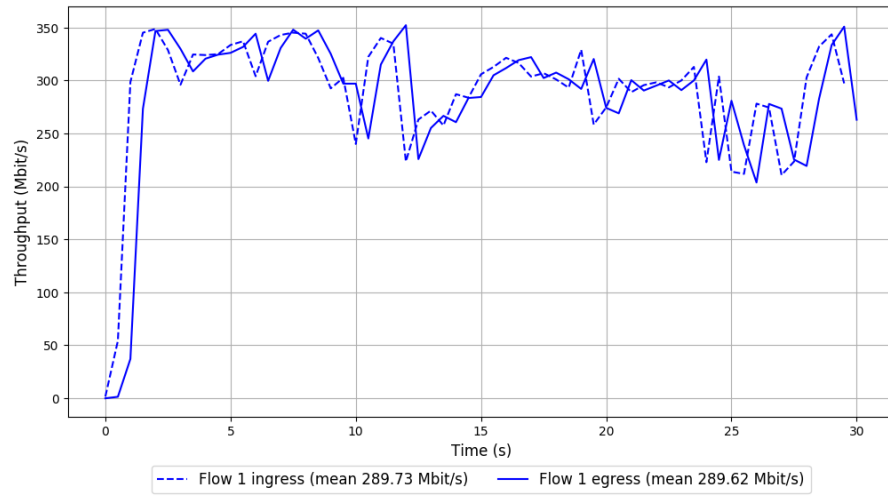


Run 1: Statistics of Copa

Start at: 2019-09-18 23:22:24
End at: 2019-09-18 23:22:54
Local clock offset: -0.495 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2019-09-19 01:59:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 289.62 Mbit/s
95th percentile per-packet one-way delay: 61.308 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 289.62 Mbit/s
95th percentile per-packet one-way delay: 61.308 ms
Loss rate: 0.36%

Run 1: Report of Copa — Data Link

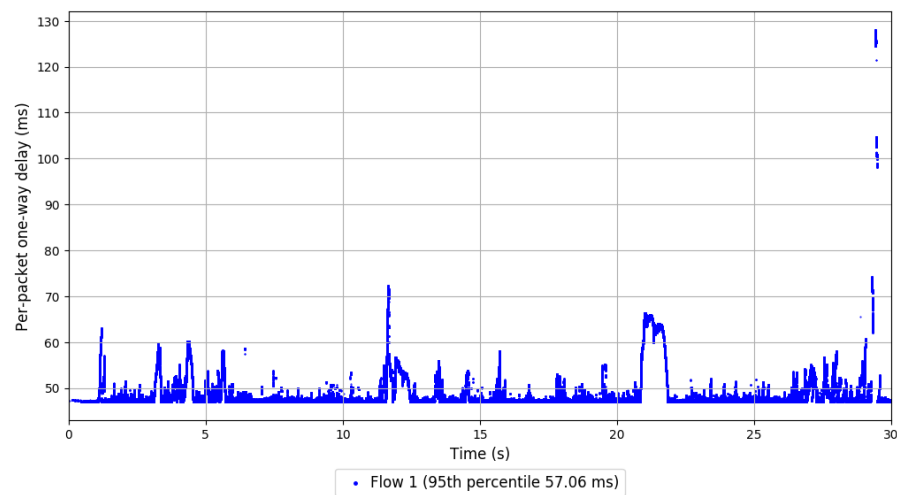
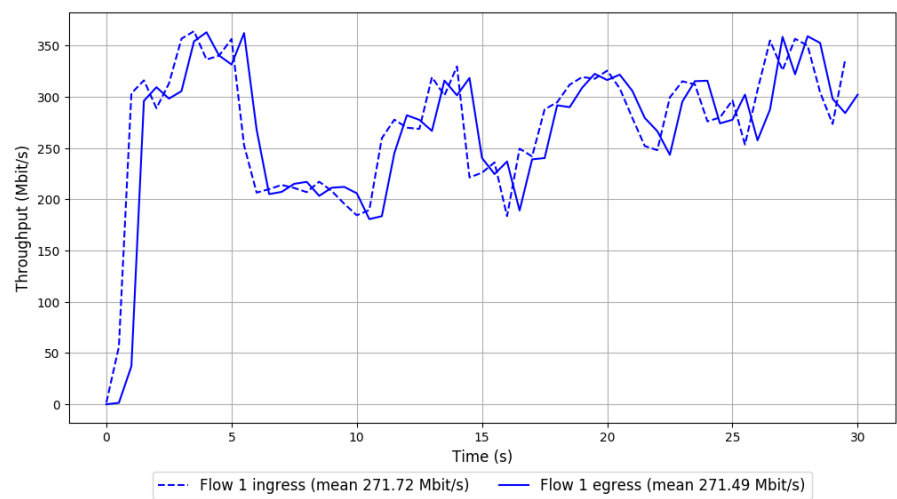


Run 2: Statistics of Copa

Start at: 2019-09-18 23:56:00
End at: 2019-09-18 23:56:30
Local clock offset: -0.122 ms
Remote clock offset: -0.086 ms

Below is generated by plot.py at 2019-09-19 01:59:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 271.49 Mbit/s
95th percentile per-packet one-way delay: 57.059 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 271.49 Mbit/s
95th percentile per-packet one-way delay: 57.059 ms
Loss rate: 0.40%

Run 2: Report of Copa — Data Link

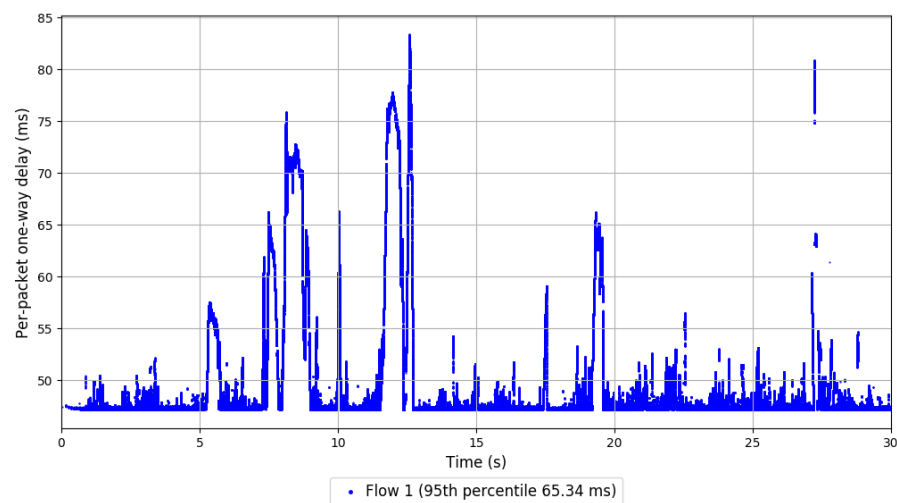
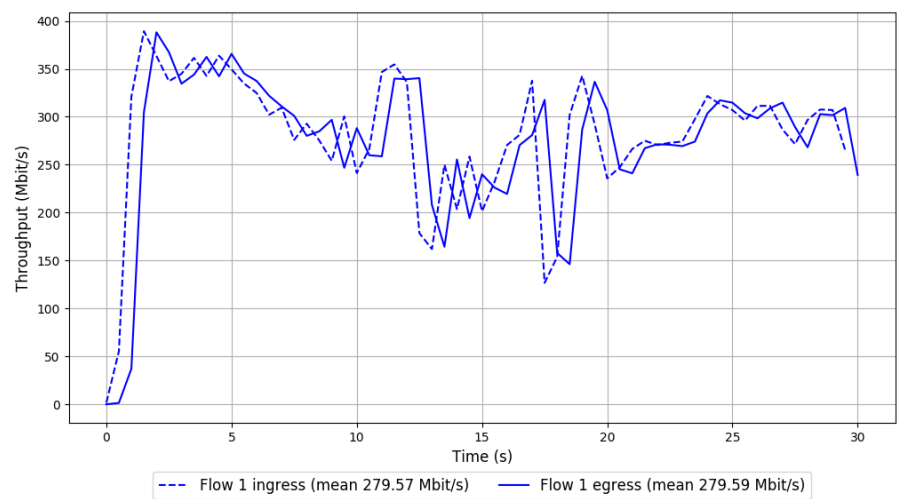


Run 3: Statistics of Copa

Start at: 2019-09-19 00:29:20
End at: 2019-09-19 00:29:50
Local clock offset: -0.174 ms
Remote clock offset: -0.058 ms

Below is generated by plot.py at 2019-09-19 01:59:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 279.59 Mbit/s
95th percentile per-packet one-way delay: 65.343 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 279.59 Mbit/s
95th percentile per-packet one-way delay: 65.343 ms
Loss rate: 0.31%

Run 3: Report of Copa — Data Link

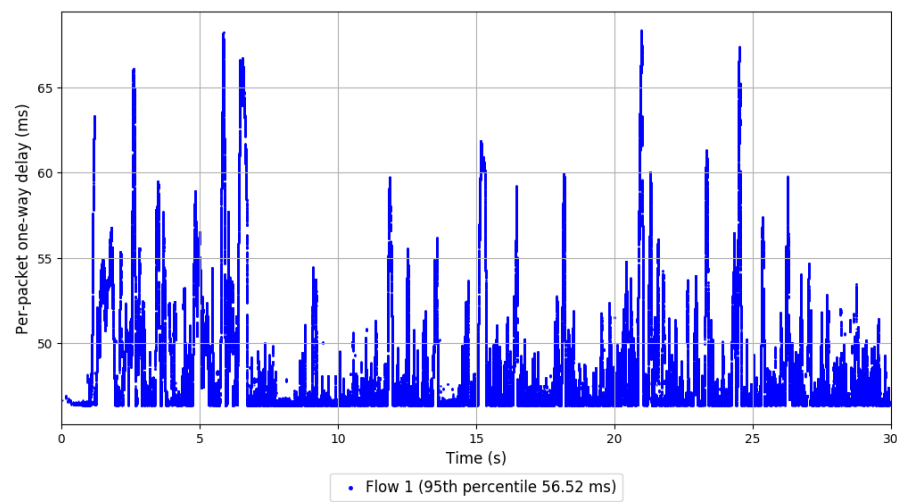
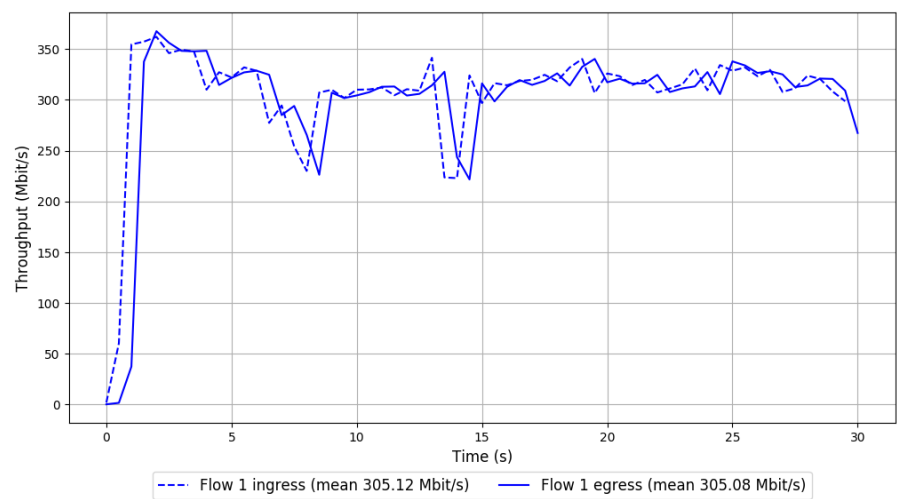


Run 4: Statistics of Copa

Start at: 2019-09-19 01:02:57
End at: 2019-09-19 01:03:27
Local clock offset: -0.144 ms
Remote clock offset: -0.001 ms

Below is generated by plot.py at 2019-09-19 02:06:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 305.08 Mbit/s
95th percentile per-packet one-way delay: 56.517 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 305.08 Mbit/s
95th percentile per-packet one-way delay: 56.517 ms
Loss rate: 0.33%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-09-19 01:37:07

End at: 2019-09-19 01:37:37

Local clock offset: -0.158 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2019-09-19 02:06:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 316.20 Mbit/s

95th percentile per-packet one-way delay: 55.935 ms

Loss rate: 0.28%

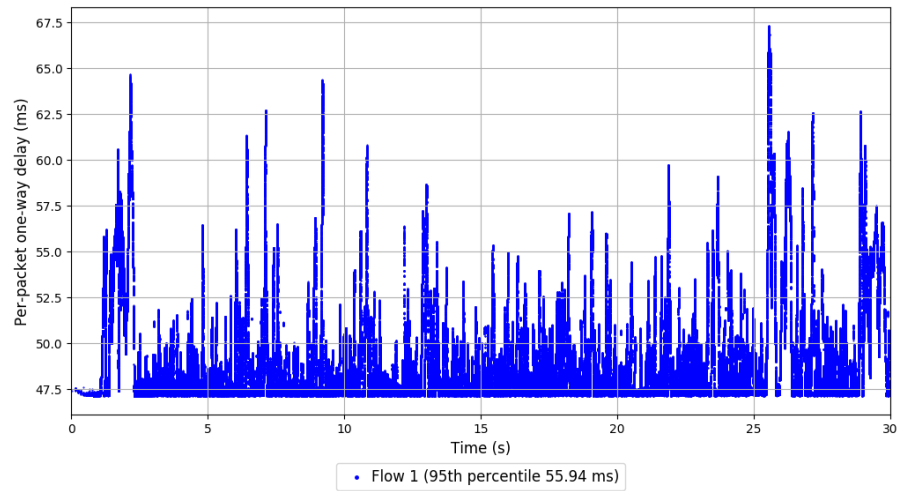
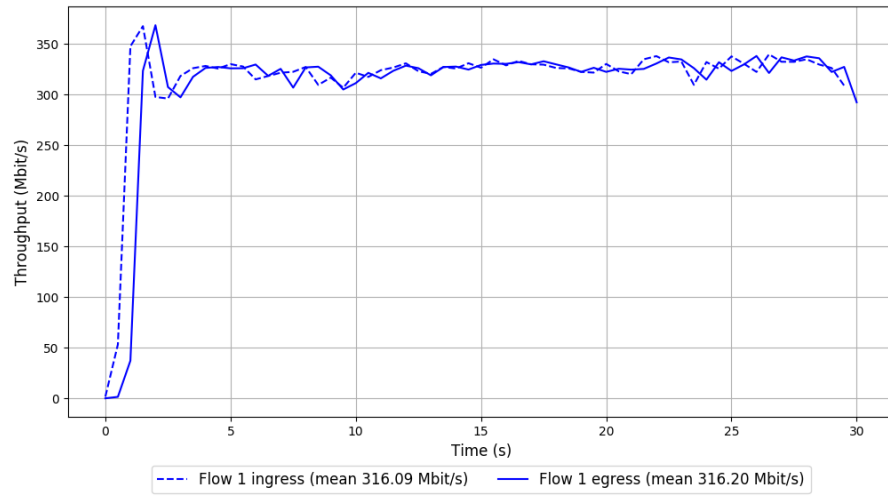
-- Flow 1:

Average throughput: 316.20 Mbit/s

95th percentile per-packet one-way delay: 55.935 ms

Loss rate: 0.28%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-09-18 22:54:29

End at: 2019-09-18 22:54:59

Local clock offset: -0.137 ms

Remote clock offset: 0.007 ms

Below is generated by plot.py at 2019-09-19 02:06:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 429.49 Mbit/s

95th percentile per-packet one-way delay: 48.991 ms

Loss rate: 0.32%

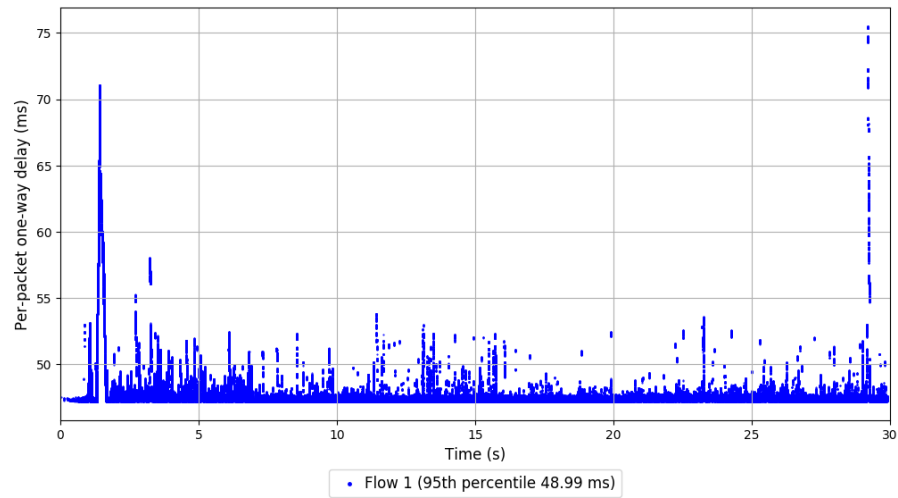
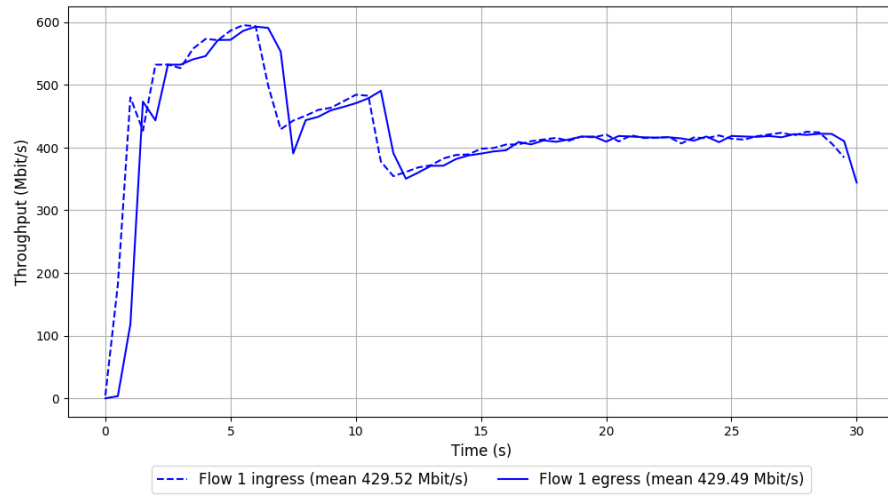
-- Flow 1:

Average throughput: 429.49 Mbit/s

95th percentile per-packet one-way delay: 48.991 ms

Loss rate: 0.32%

Run 1: Report of TCP Cubic — Data Link

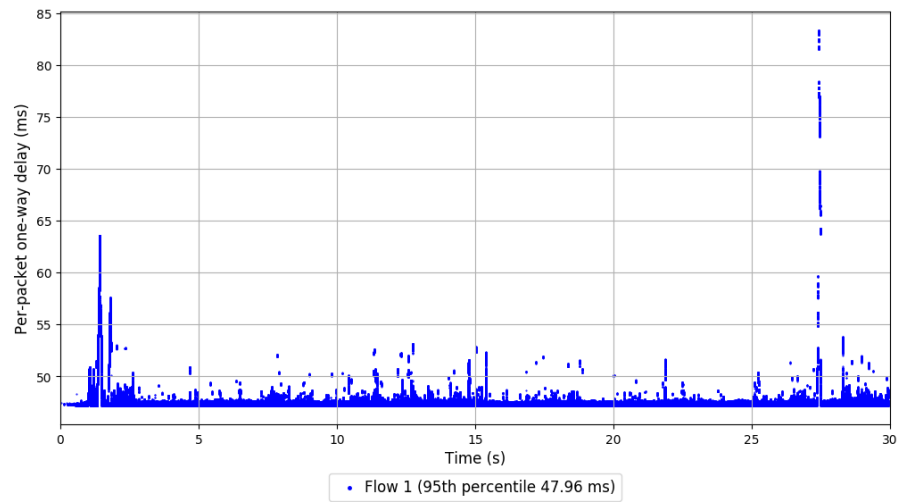
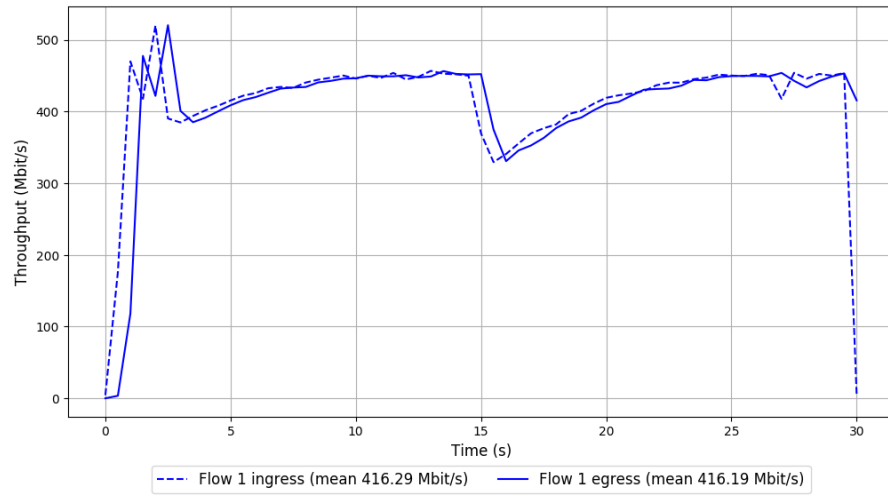


Run 2: Statistics of TCP Cubic

Start at: 2019-09-18 23:27:42
End at: 2019-09-18 23:28:12
Local clock offset: -0.125 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2019-09-19 02:06:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 416.19 Mbit/s
95th percentile per-packet one-way delay: 47.962 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 416.19 Mbit/s
95th percentile per-packet one-way delay: 47.962 ms
Loss rate: 0.34%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-09-19 00:01:20

End at: 2019-09-19 00:01:50

Local clock offset: -0.116 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2019-09-19 02:06:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 406.31 Mbit/s

95th percentile per-packet one-way delay: 47.770 ms

Loss rate: 0.25%

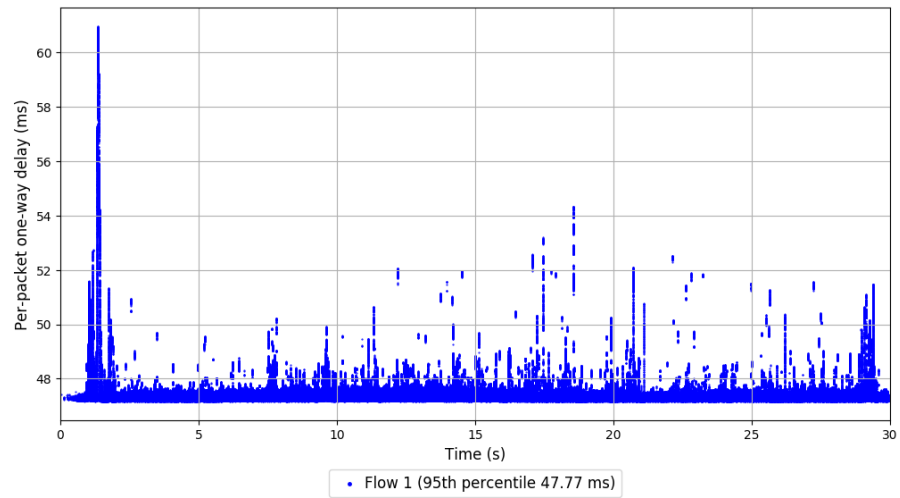
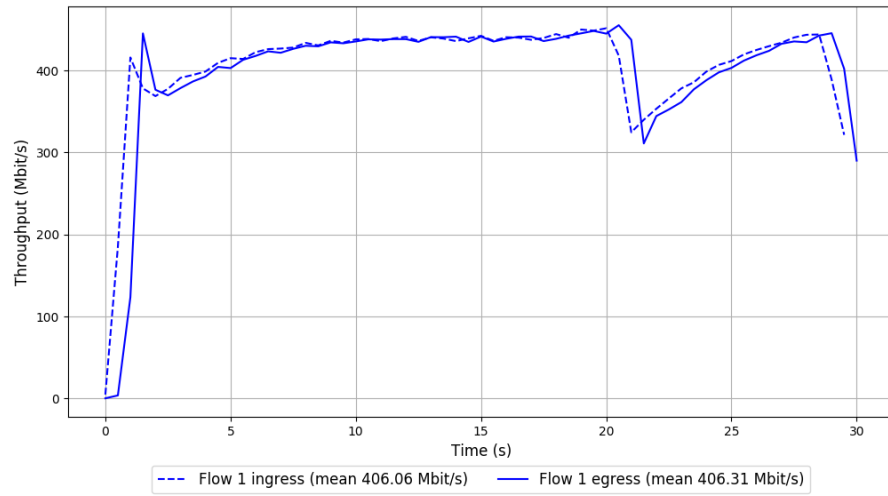
-- Flow 1:

Average throughput: 406.31 Mbit/s

95th percentile per-packet one-way delay: 47.770 ms

Loss rate: 0.25%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-09-19 00:34:39

End at: 2019-09-19 00:35:09

Local clock offset: -0.187 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2019-09-19 02:06:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 416.00 Mbit/s

95th percentile per-packet one-way delay: 68.155 ms

Loss rate: 0.32%

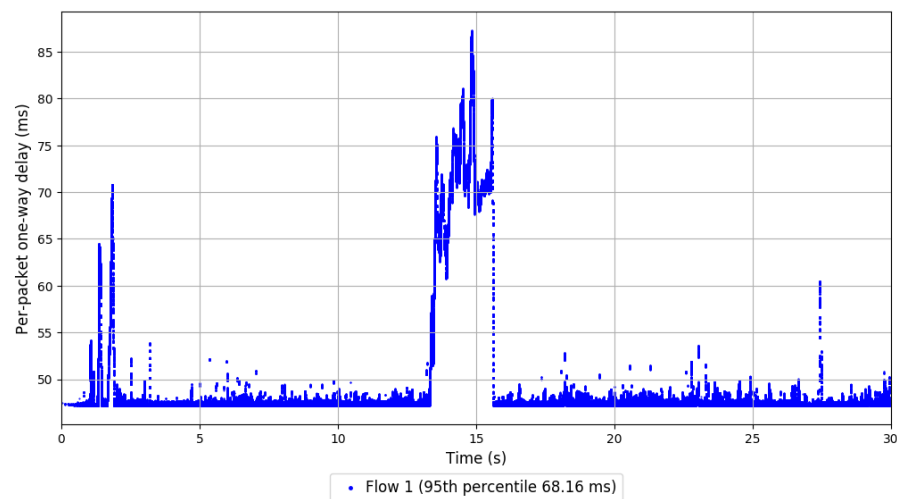
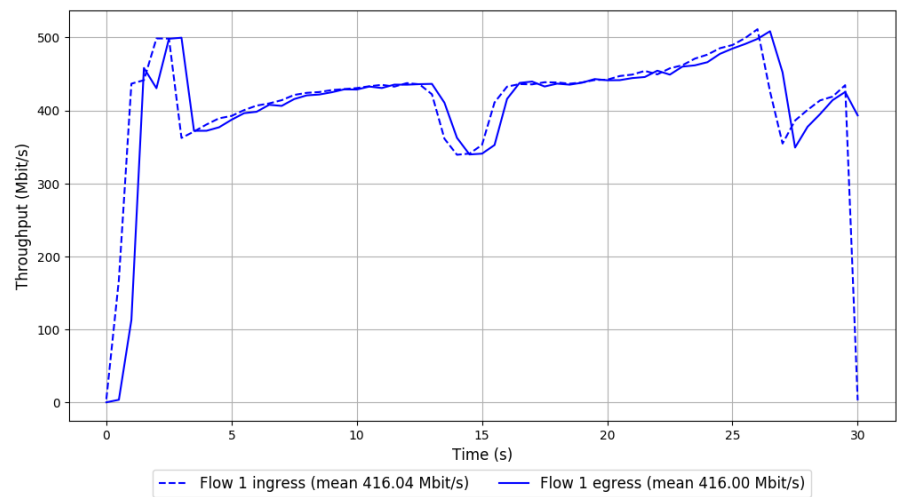
-- Flow 1:

Average throughput: 416.00 Mbit/s

95th percentile per-packet one-way delay: 68.155 ms

Loss rate: 0.32%

Run 4: Report of TCP Cubic — Data Link

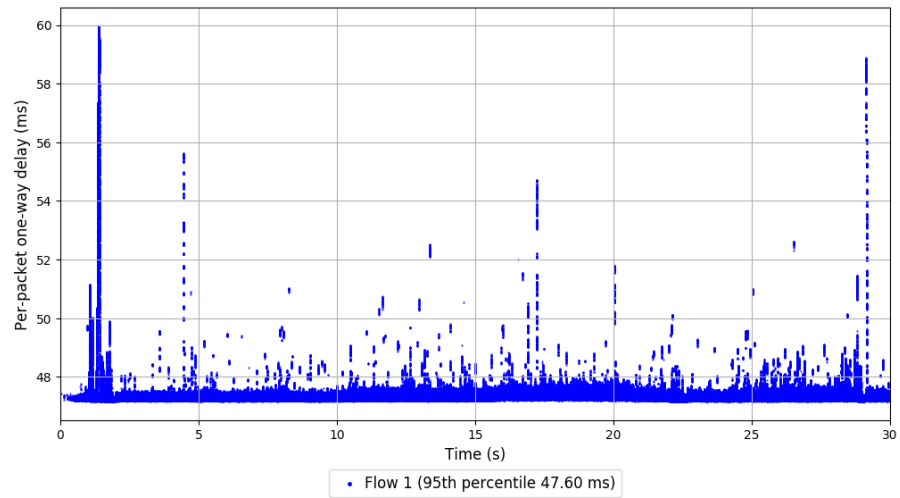
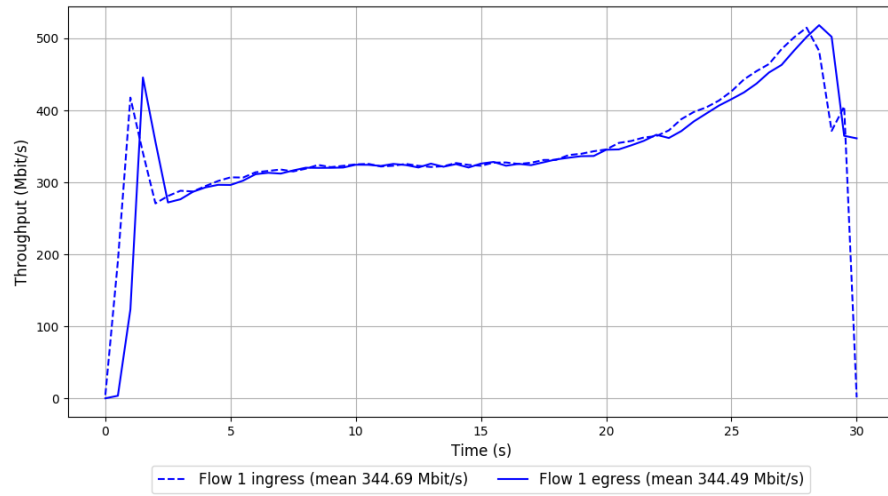


Run 5: Statistics of TCP Cubic

Start at: 2019-09-19 01:08:23
End at: 2019-09-19 01:08:53
Local clock offset: -0.203 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2019-09-19 02:06:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 344.49 Mbit/s
95th percentile per-packet one-way delay: 47.596 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 344.49 Mbit/s
95th percentile per-packet one-way delay: 47.596 ms
Loss rate: 0.38%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-09-18 23:18:29

End at: 2019-09-18 23:18:59

Local clock offset: -0.499 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2019-09-19 02:17:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 795.84 Mbit/s

95th percentile per-packet one-way delay: 65.938 ms

Loss rate: 0.34%

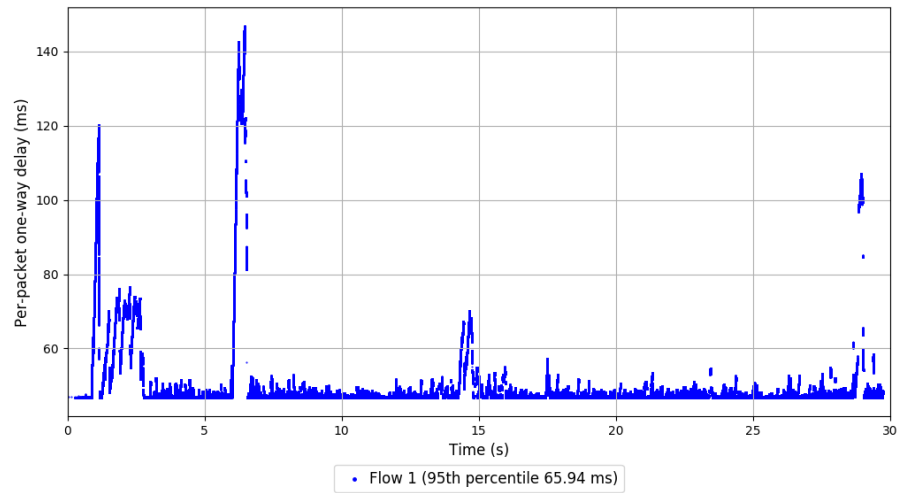
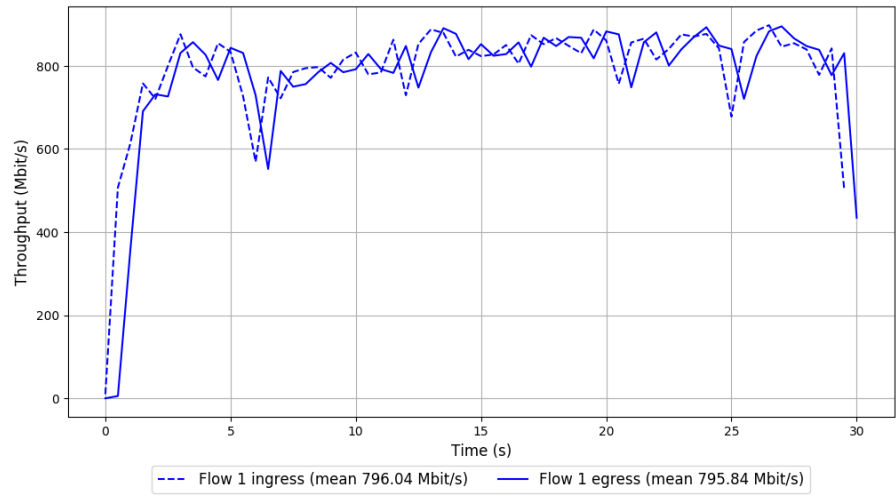
-- Flow 1:

Average throughput: 795.84 Mbit/s

95th percentile per-packet one-way delay: 65.938 ms

Loss rate: 0.34%

Run 1: Report of FillP — Data Link

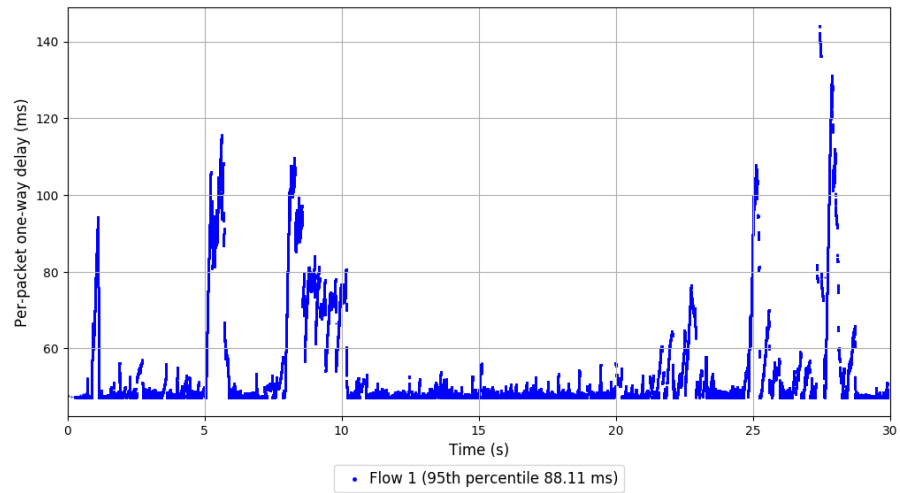
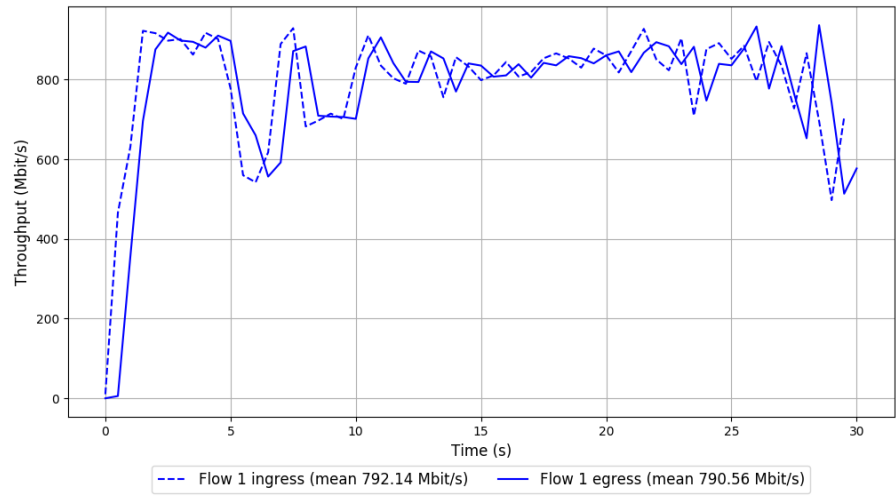


Run 2: Statistics of FillP

Start at: 2019-09-18 23:52:05
End at: 2019-09-18 23:52:35
Local clock offset: -0.117 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2019-09-19 02:22:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 790.56 Mbit/s
95th percentile per-packet one-way delay: 88.105 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 790.56 Mbit/s
95th percentile per-packet one-way delay: 88.105 ms
Loss rate: 0.52%

Run 2: Report of FillP — Data Link

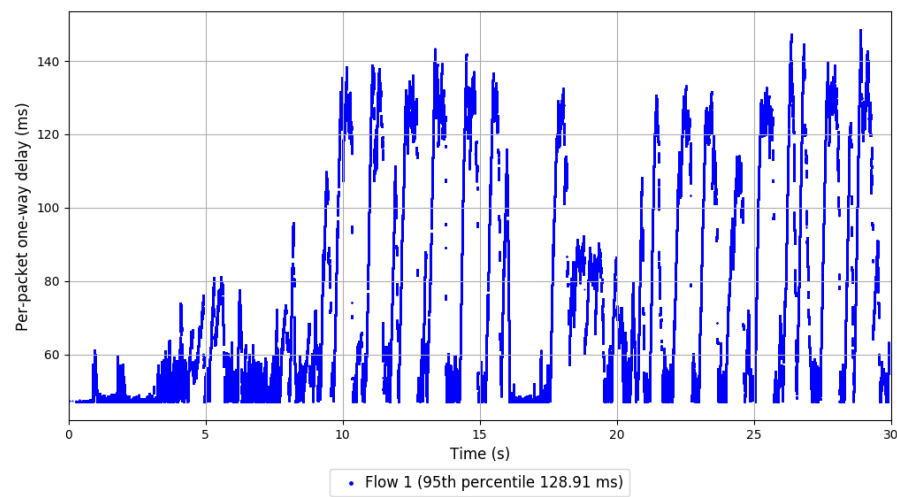
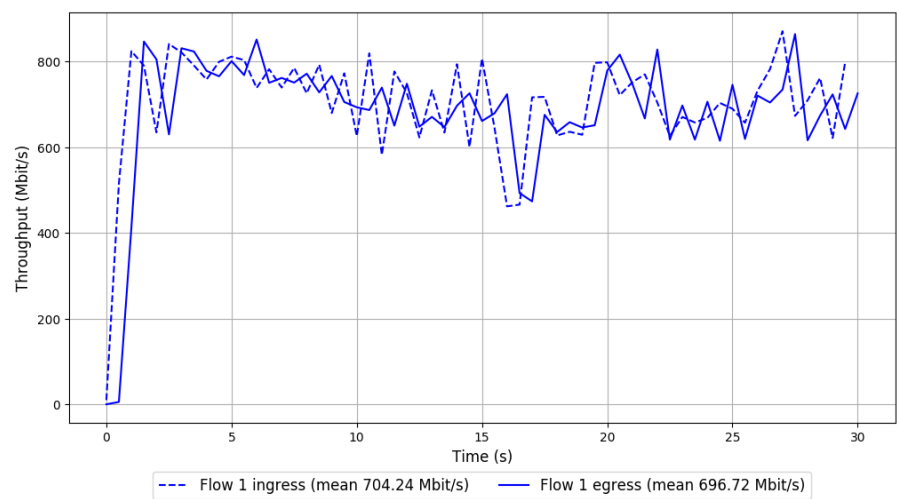


Run 3: Statistics of FillP

Start at: 2019-09-19 00:25:30
End at: 2019-09-19 00:26:00
Local clock offset: -0.181 ms
Remote clock offset: -0.097 ms

Below is generated by plot.py at 2019-09-19 02:22:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 696.72 Mbit/s
95th percentile per-packet one-way delay: 128.906 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 696.72 Mbit/s
95th percentile per-packet one-way delay: 128.906 ms
Loss rate: 1.38%

Run 3: Report of FillP — Data Link

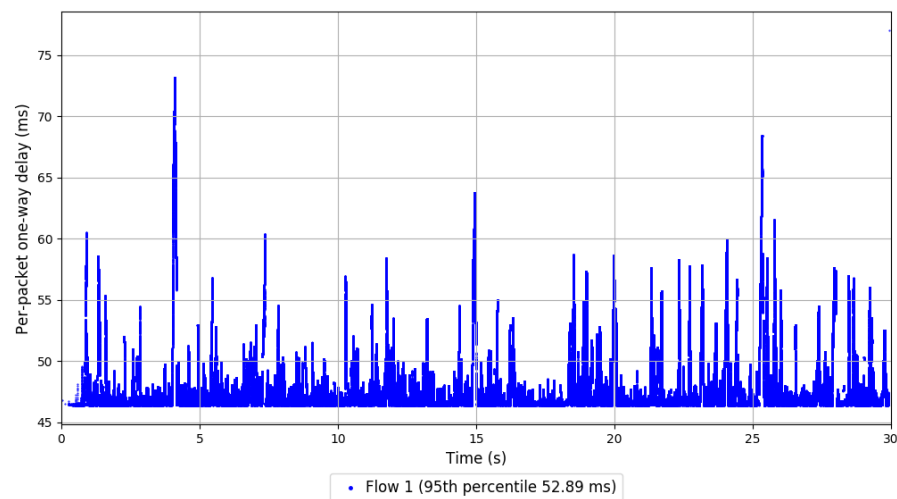
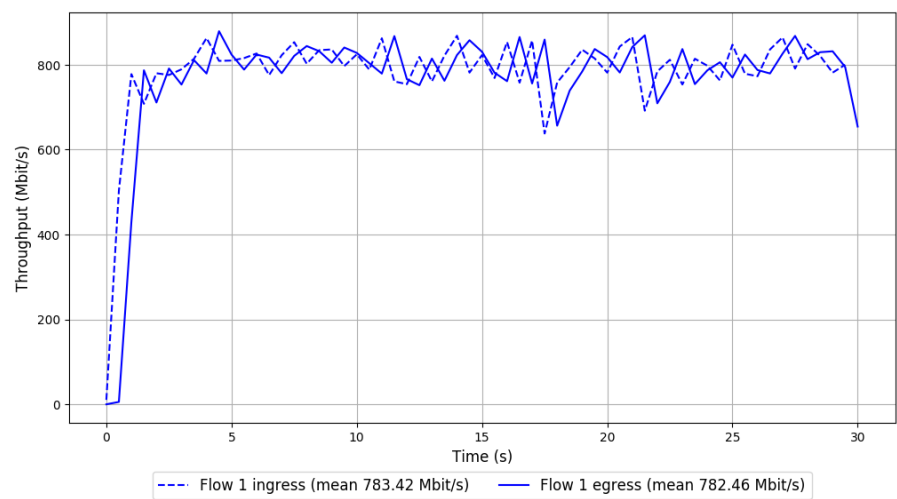


Run 4: Statistics of FillP

Start at: 2019-09-19 00:59:01
End at: 2019-09-19 00:59:31
Local clock offset: -0.183 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2019-09-19 02:22:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 782.46 Mbit/s
95th percentile per-packet one-way delay: 52.890 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 782.46 Mbit/s
95th percentile per-packet one-way delay: 52.890 ms
Loss rate: 0.43%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-09-19 01:33:13

End at: 2019-09-19 01:33:43

Local clock offset: -0.143 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2019-09-19 02:23:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 792.03 Mbit/s

95th percentile per-packet one-way delay: 77.059 ms

Loss rate: 0.33%

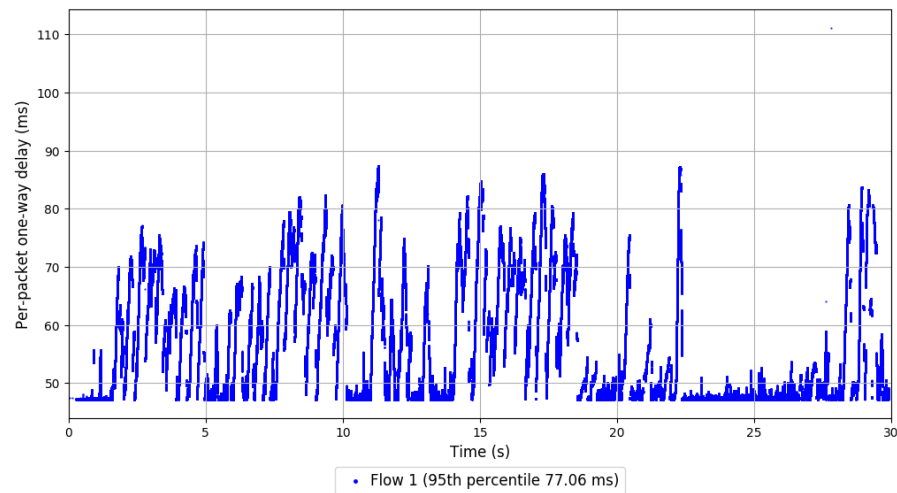
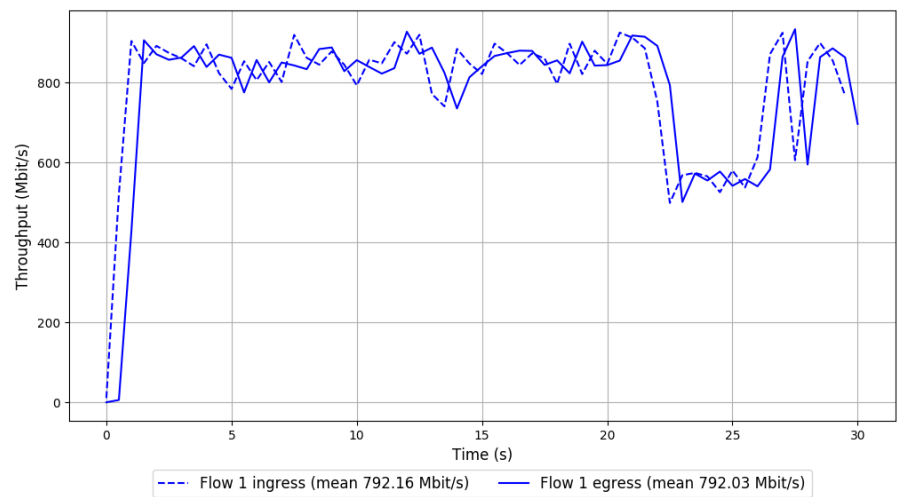
-- Flow 1:

Average throughput: 792.03 Mbit/s

95th percentile per-packet one-way delay: 77.059 ms

Loss rate: 0.33%

Run 5: Report of FillP — Data Link

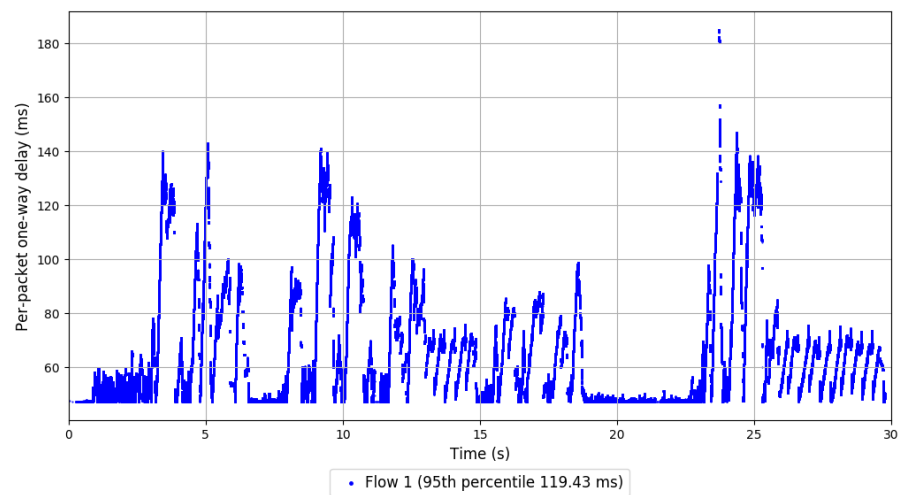
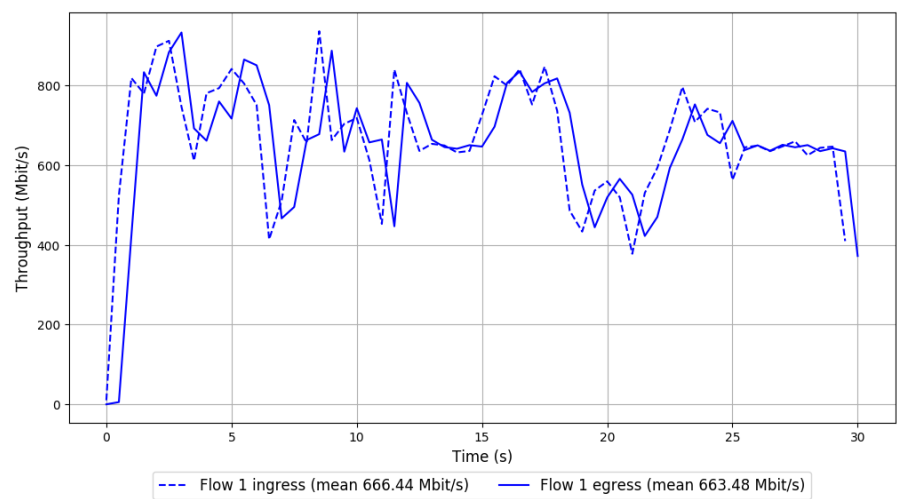


Run 1: Statistics of FillP-Sheep

Start at: 2019-09-18 23:12:32
End at: 2019-09-18 23:13:02
Local clock offset: -0.112 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2019-09-19 02:23:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 663.48 Mbit/s
95th percentile per-packet one-way delay: 119.432 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 663.48 Mbit/s
95th percentile per-packet one-way delay: 119.432 ms
Loss rate: 0.76%

Run 1: Report of FillP-Sheep — Data Link

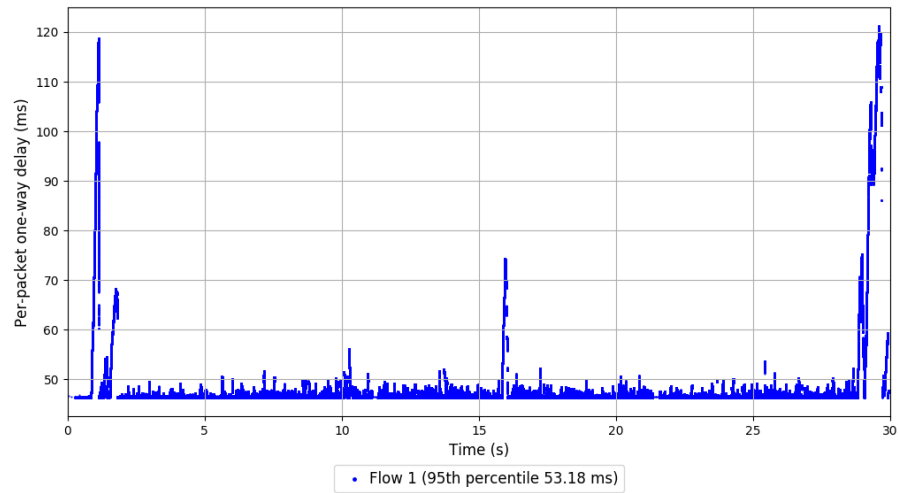
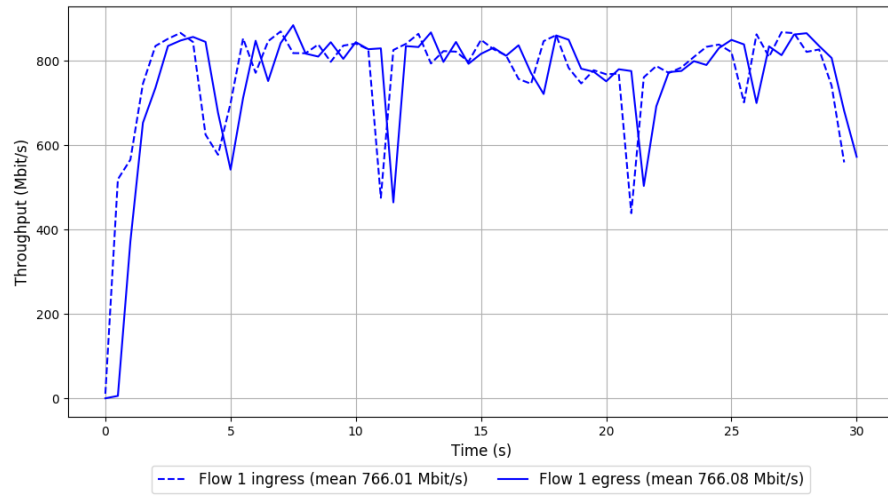


Run 2: Statistics of FillP-Sheep

Start at: 2019-09-18 23:46:04
End at: 2019-09-18 23:46:34
Local clock offset: -0.109 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2019-09-19 02:23:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 766.08 Mbit/s
95th percentile per-packet one-way delay: 53.179 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 766.08 Mbit/s
95th percentile per-packet one-way delay: 53.179 ms
Loss rate: 0.31%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-09-19 00:19:34

End at: 2019-09-19 00:20:04

Local clock offset: -0.2 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2019-09-19 02:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 811.82 Mbit/s

95th percentile per-packet one-way delay: 82.580 ms

Loss rate: 0.40%

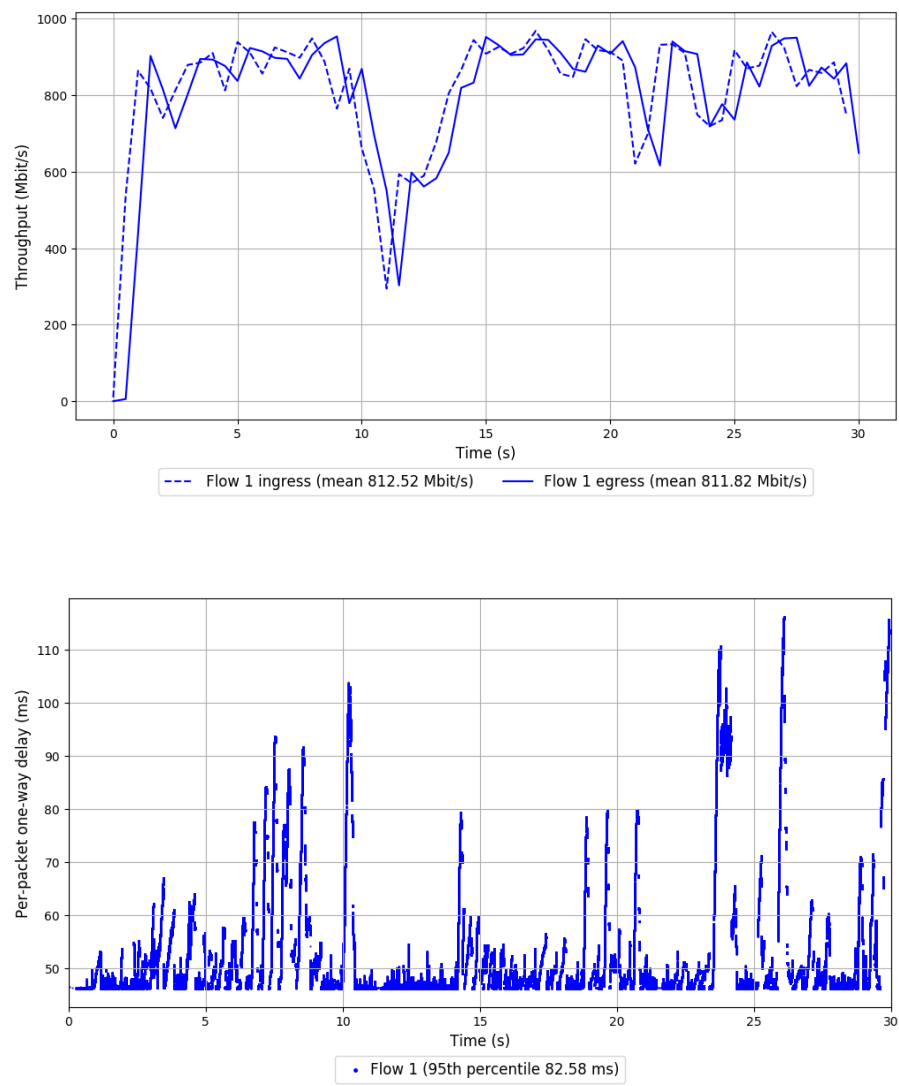
-- Flow 1:

Average throughput: 811.82 Mbit/s

95th percentile per-packet one-way delay: 82.580 ms

Loss rate: 0.40%

Run 3: Report of FillP-Sheep — Data Link

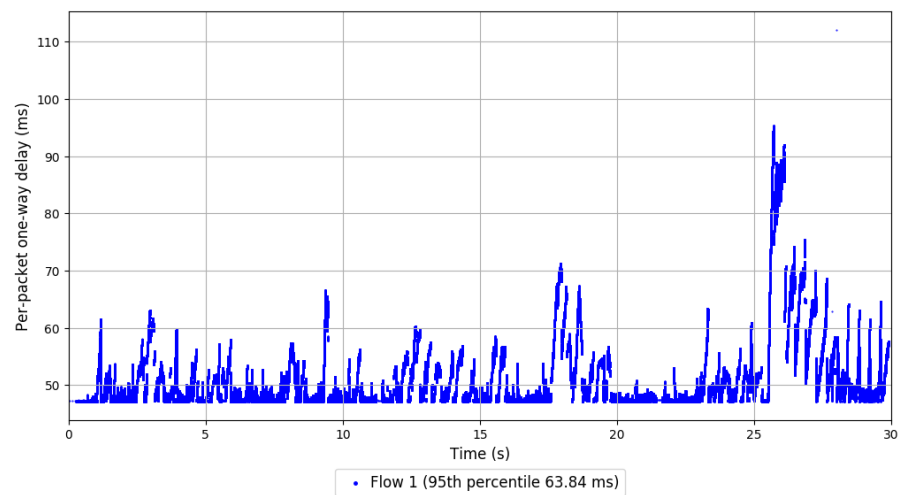
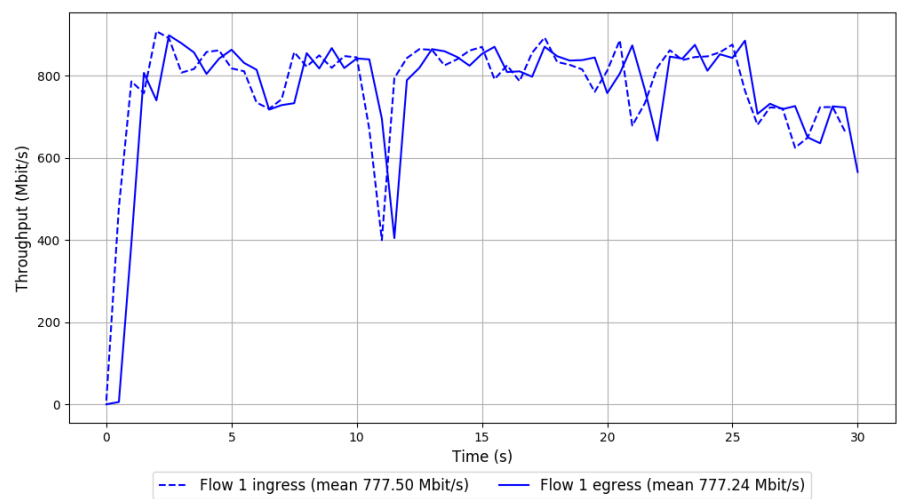


Run 4: Statistics of FillP-Sheep

Start at: 2019-09-19 00:53:03
End at: 2019-09-19 00:53:33
Local clock offset: -0.224 ms
Remote clock offset: 0.008 ms

Below is generated by plot.py at 2019-09-19 02:34:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 777.24 Mbit/s
95th percentile per-packet one-way delay: 63.838 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 777.24 Mbit/s
95th percentile per-packet one-way delay: 63.838 ms
Loss rate: 0.36%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-09-19 01:27:14

End at: 2019-09-19 01:27:44

Local clock offset: -0.149 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2019-09-19 02:35:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 717.68 Mbit/s

95th percentile per-packet one-way delay: 114.569 ms

Loss rate: 1.19%

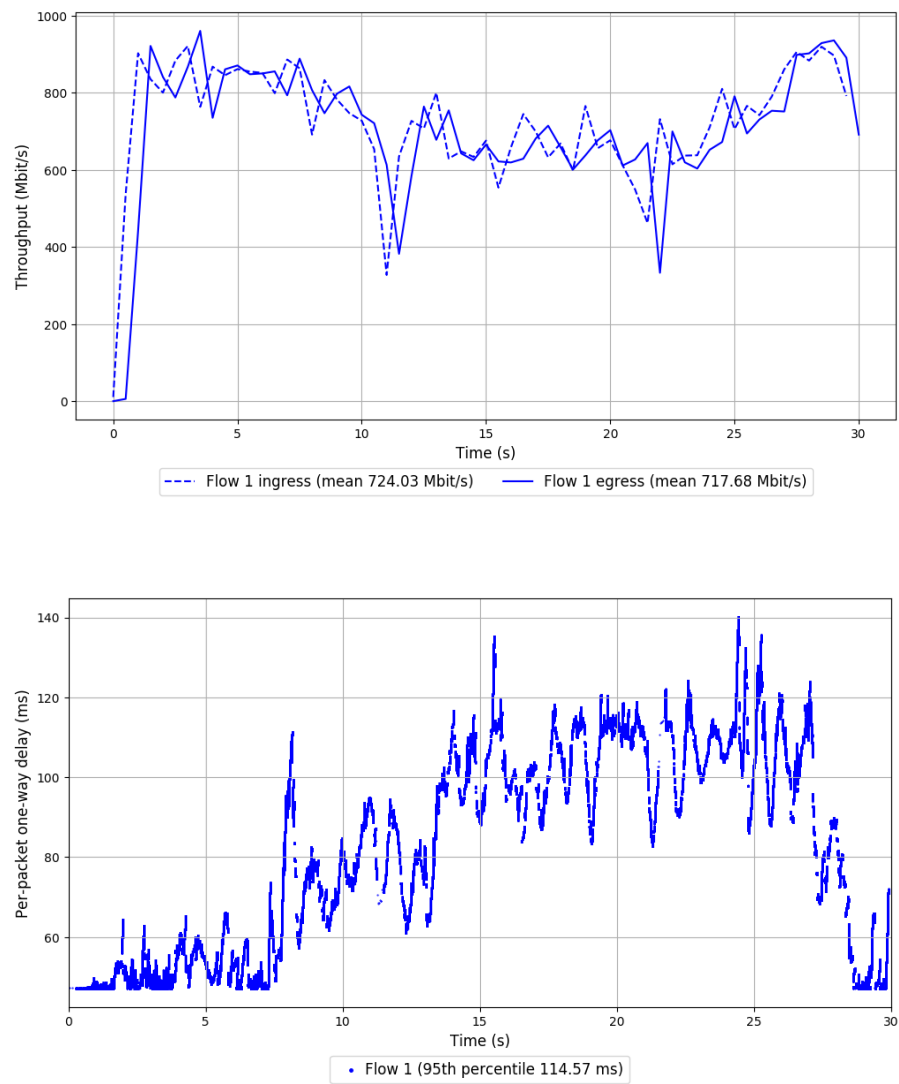
-- Flow 1:

Average throughput: 717.68 Mbit/s

95th percentile per-packet one-way delay: 114.569 ms

Loss rate: 1.19%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

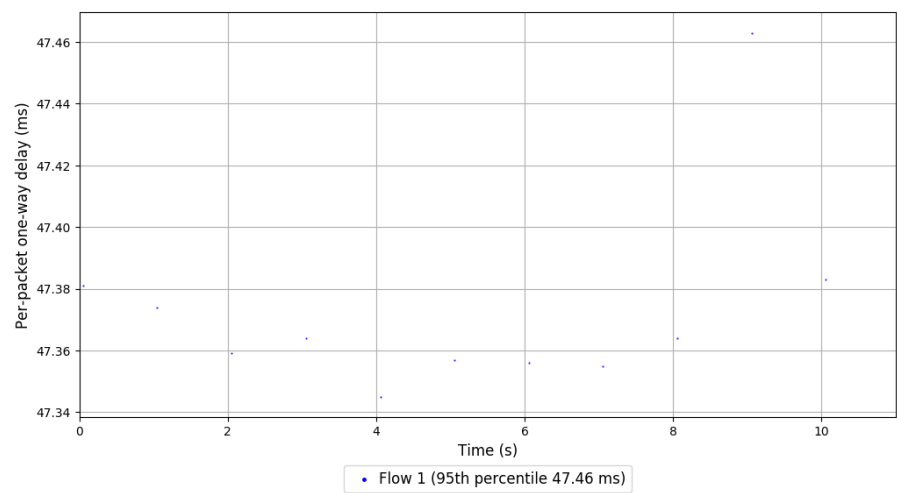
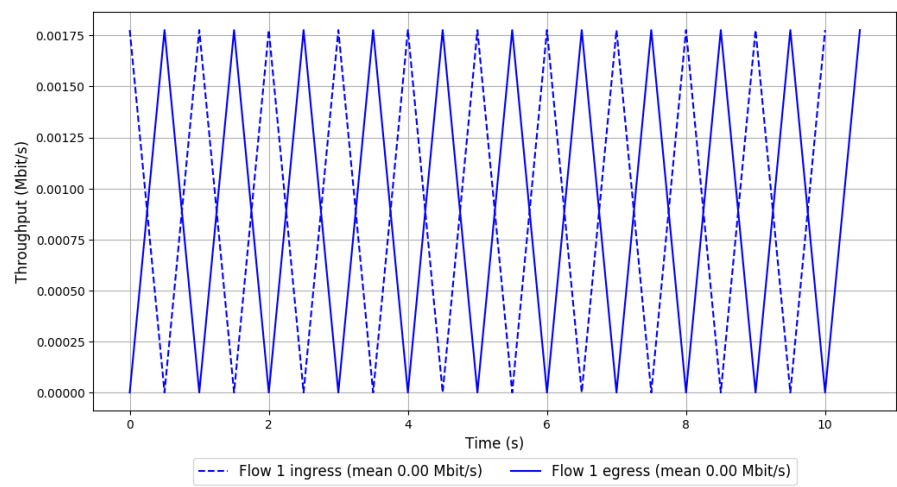
Start at: 2019-09-18 23:01:42

End at: 2019-09-18 23:02:12

Local clock offset: -0.148 ms

Remote clock offset: -0.014 ms

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-09-18 23:34:53

End at: 2019-09-18 23:35:23

Local clock offset: -0.48 ms

Remote clock offset: -0.077 ms

Below is generated by plot.py at 2019-09-19 02:35:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 117.27 Mbit/s

95th percentile per-packet one-way delay: 46.915 ms

Loss rate: 0.31%

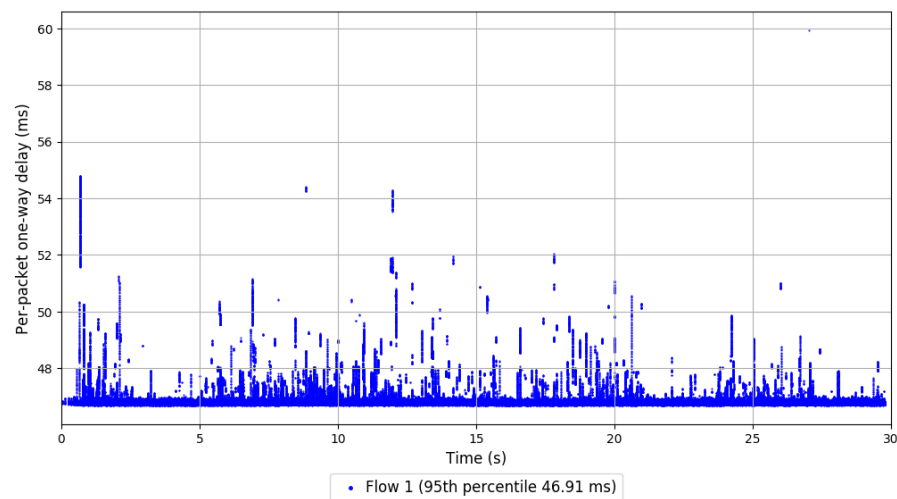
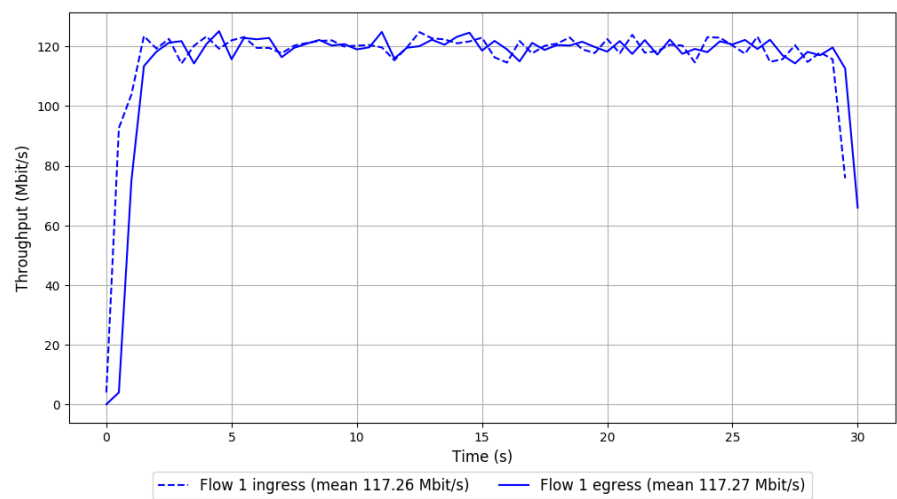
-- Flow 1:

Average throughput: 117.27 Mbit/s

95th percentile per-packet one-way delay: 46.915 ms

Loss rate: 0.31%

Run 2: Report of Indigo — Data Link

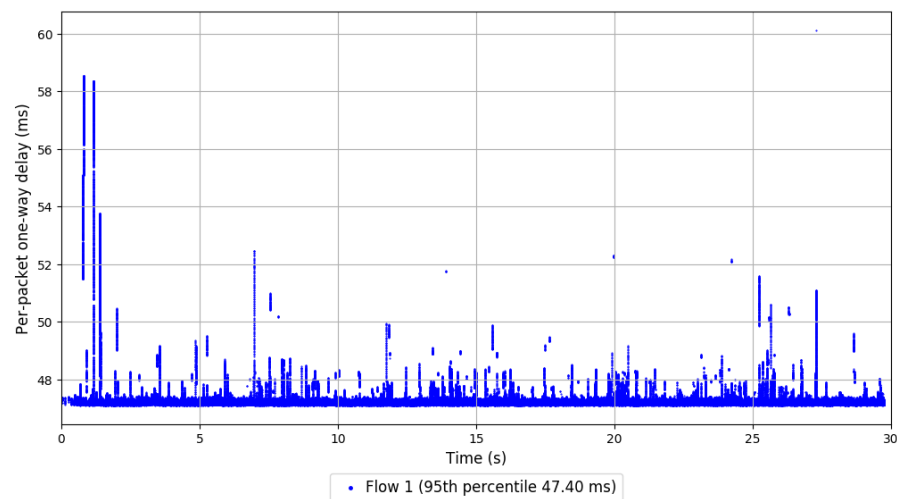
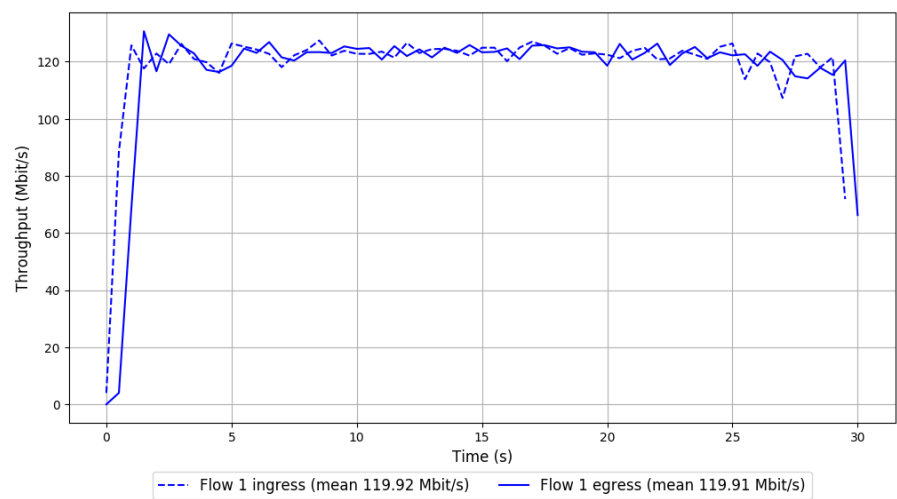


Run 3: Statistics of Indigo

Start at: 2019-09-19 00:08:20
End at: 2019-09-19 00:08:50
Local clock offset: -0.155 ms
Remote clock offset: -0.065 ms

Below is generated by plot.py at 2019-09-19 02:35:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 119.91 Mbit/s
95th percentile per-packet one-way delay: 47.395 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 119.91 Mbit/s
95th percentile per-packet one-way delay: 47.395 ms
Loss rate: 0.33%

Run 3: Report of Indigo — Data Link

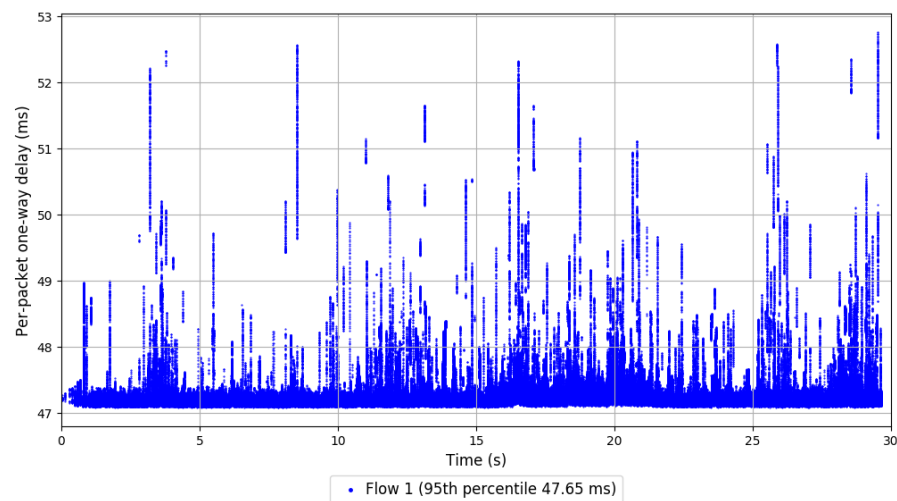
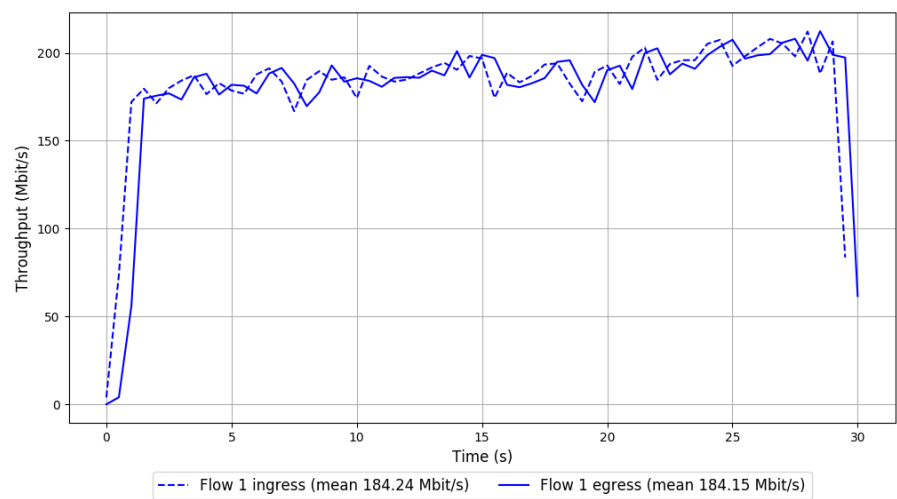


Run 4: Statistics of Indigo

Start at: 2019-09-19 00:41:45
End at: 2019-09-19 00:42:15
Local clock offset: -0.236 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2019-09-19 02:35:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 184.15 Mbit/s
95th percentile per-packet one-way delay: 47.646 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 184.15 Mbit/s
95th percentile per-packet one-way delay: 47.646 ms
Loss rate: 0.38%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-09-19 01:15:29

End at: 2019-09-19 01:15:59

Local clock offset: -0.164 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2019-09-19 02:35:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.77 Mbit/s

95th percentile per-packet one-way delay: 46.587 ms

Loss rate: 0.32%

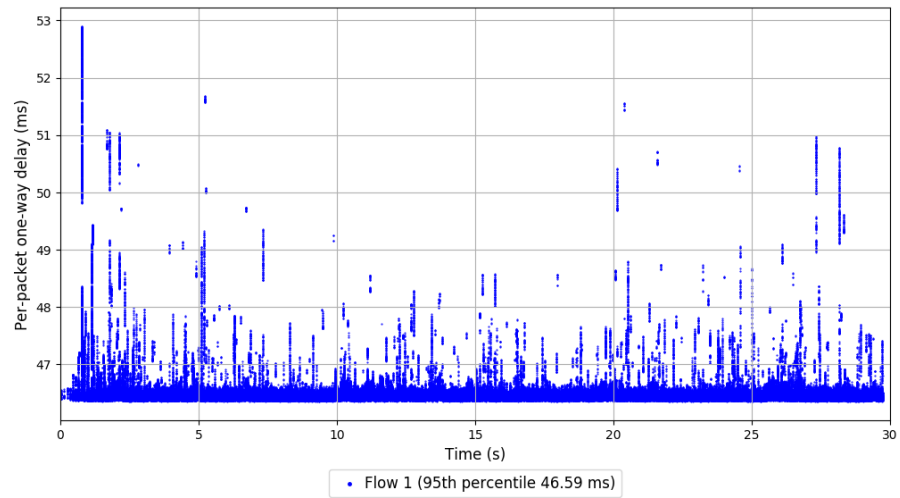
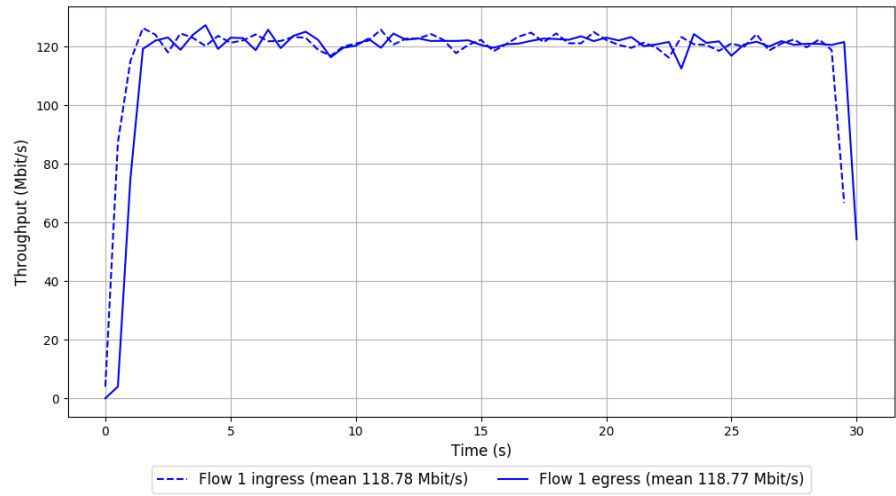
-- Flow 1:

Average throughput: 118.77 Mbit/s

95th percentile per-packet one-way delay: 46.587 ms

Loss rate: 0.32%

Run 5: Report of Indigo — Data Link

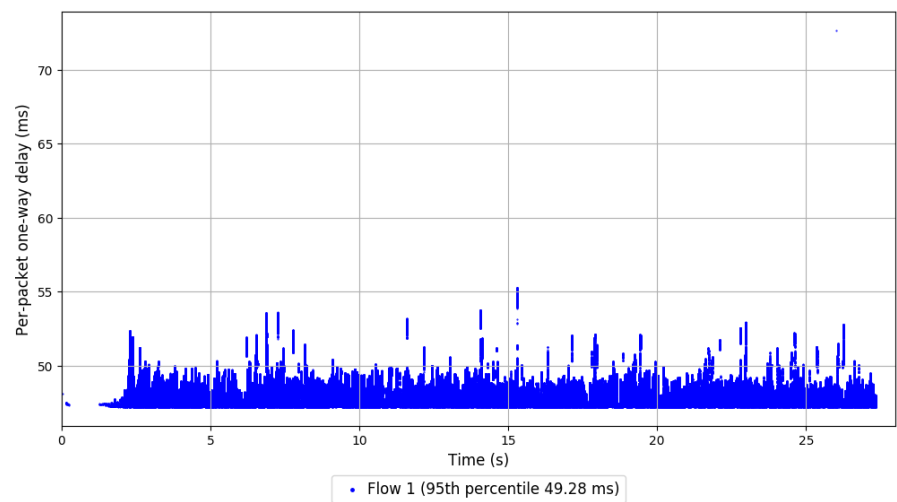
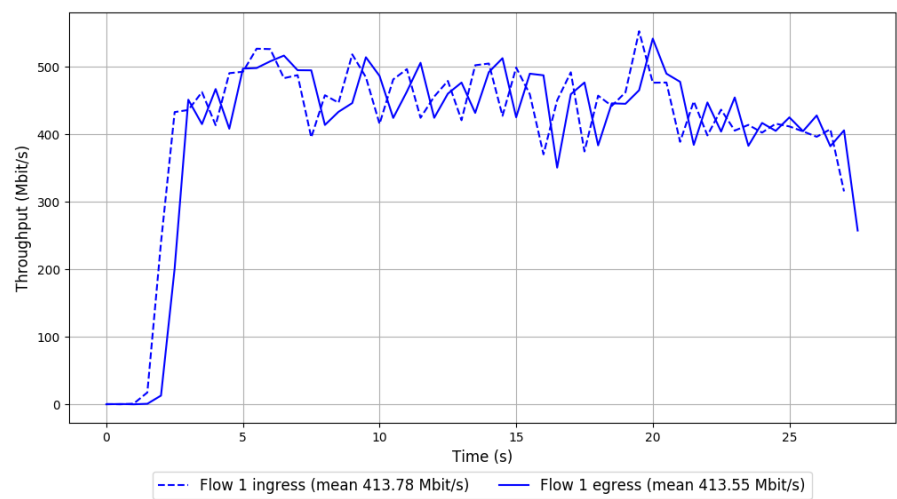


```
Run 1: Statistics of Indigo-MusesC3

Start at: 2019-09-18 23:04:00
End at: 2019-09-18 23:04:30
Local clock offset: -0.161 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2019-09-19 02:35:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 413.55 Mbit/s
95th percentile per-packet one-way delay: 49.282 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 413.55 Mbit/s
95th percentile per-packet one-way delay: 49.282 ms
Loss rate: 0.40%
```

Run 1: Report of Indigo-MusesC3 — Data Link

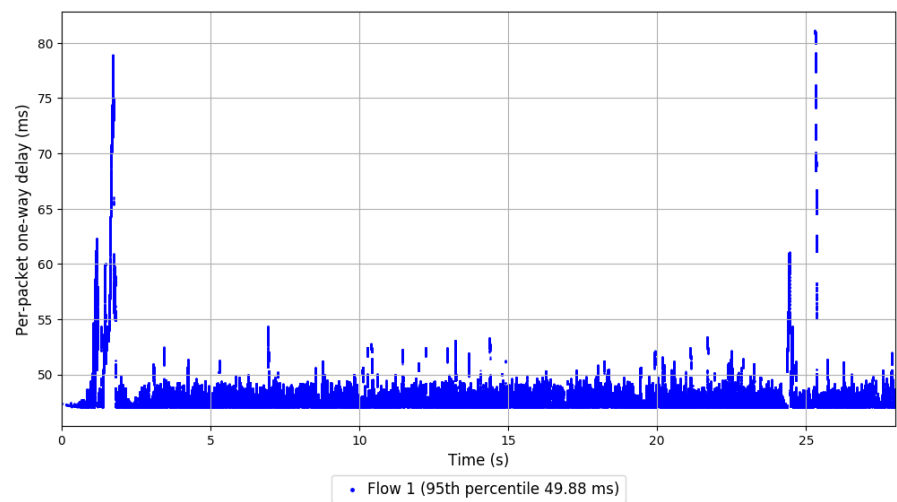
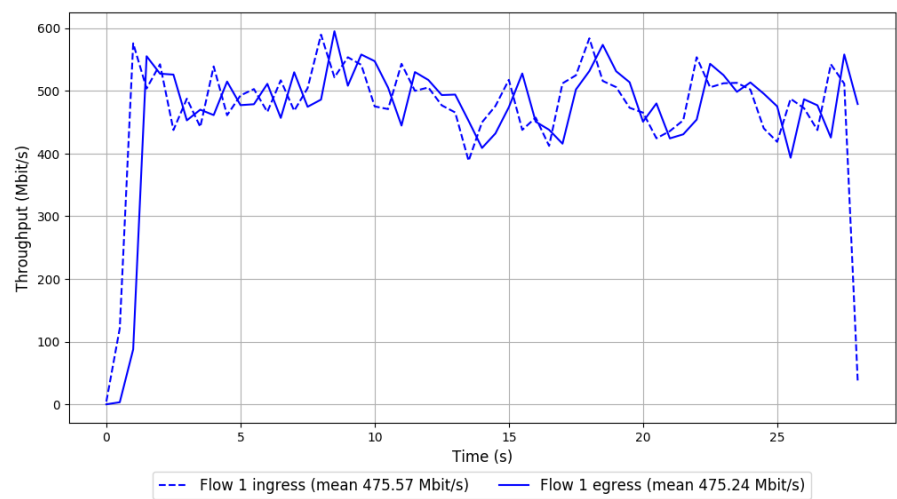


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-09-18 23:37:25
End at: 2019-09-18 23:37:55
Local clock offset: -0.113 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2019-09-19 02:35:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 475.24 Mbit/s
95th percentile per-packet one-way delay: 49.885 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 475.24 Mbit/s
95th percentile per-packet one-way delay: 49.885 ms
Loss rate: 0.41%

Run 2: Report of Indigo-MusesC3 — Data Link

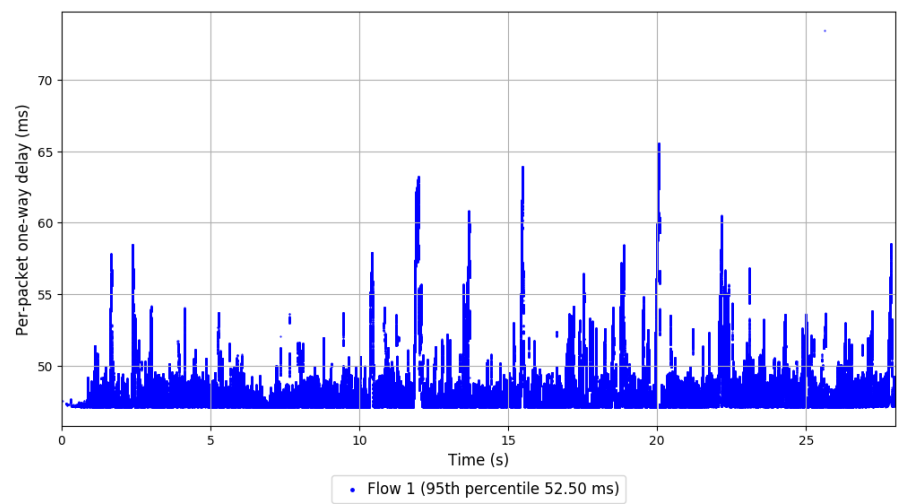
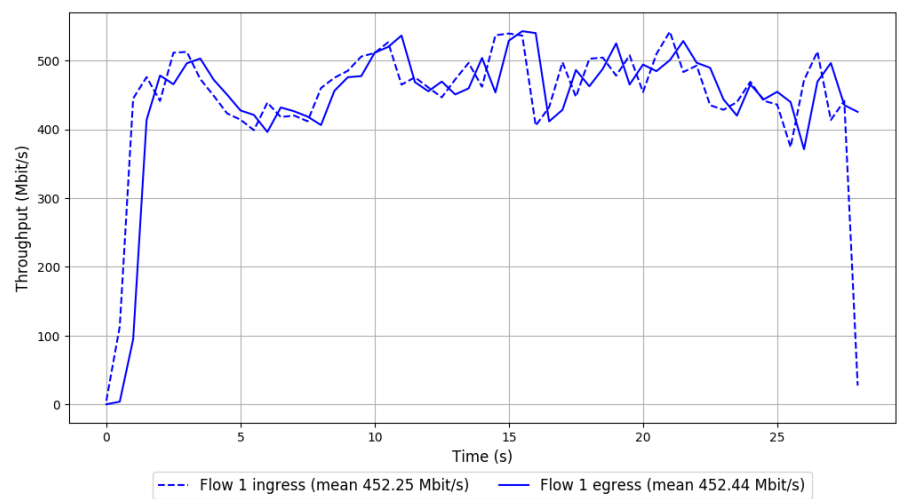


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-09-19 00:10:54
End at: 2019-09-19 00:11:24
Local clock offset: -0.155 ms
Remote clock offset: -0.067 ms

Below is generated by plot.py at 2019-09-19 02:35:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 452.44 Mbit/s
95th percentile per-packet one-way delay: 52.501 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 452.44 Mbit/s
95th percentile per-packet one-way delay: 52.501 ms
Loss rate: 0.29%

Run 3: Report of Indigo-MusesC3 — Data Link

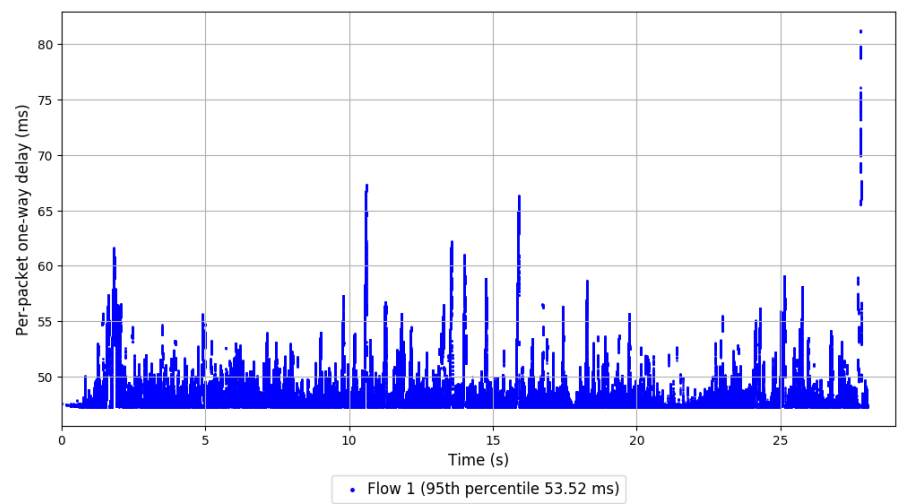
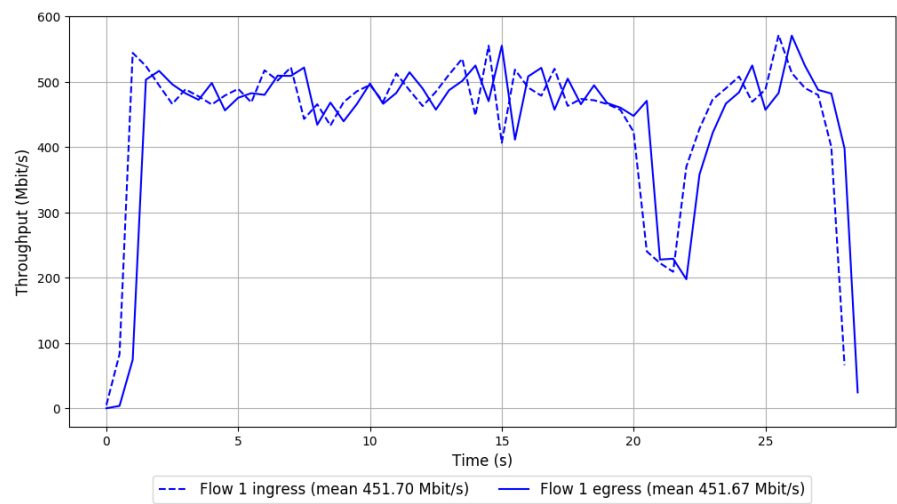


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-09-19 00:44:20
End at: 2019-09-19 00:44:50
Local clock offset: -0.156 ms
Remote clock offset: -0.019 ms

Below is generated by plot.py at 2019-09-19 02:35:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 451.67 Mbit/s
95th percentile per-packet one-way delay: 53.519 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 451.67 Mbit/s
95th percentile per-packet one-way delay: 53.519 ms
Loss rate: 0.36%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-09-19 01:17:57

End at: 2019-09-19 01:18:27

Local clock offset: -0.213 ms

Remote clock offset: 0.029 ms

Below is generated by plot.py at 2019-09-19 02:36:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 473.01 Mbit/s

95th percentile per-packet one-way delay: 50.993 ms

Loss rate: 0.25%

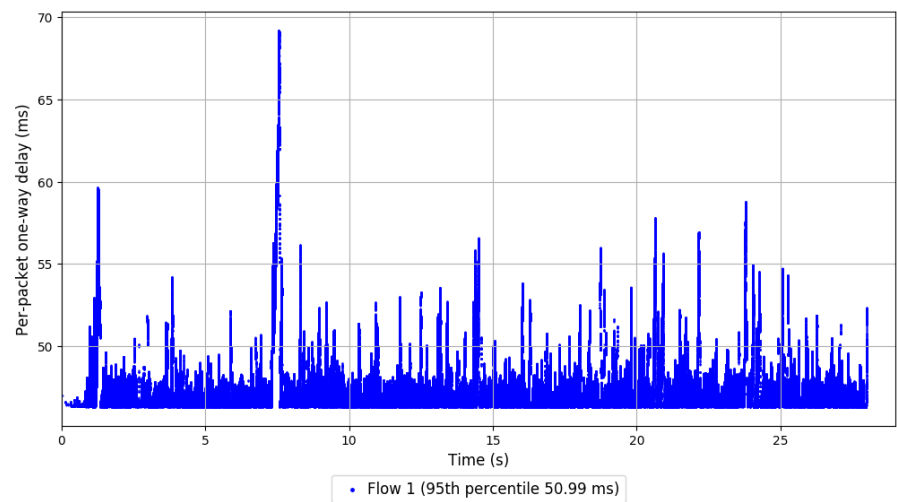
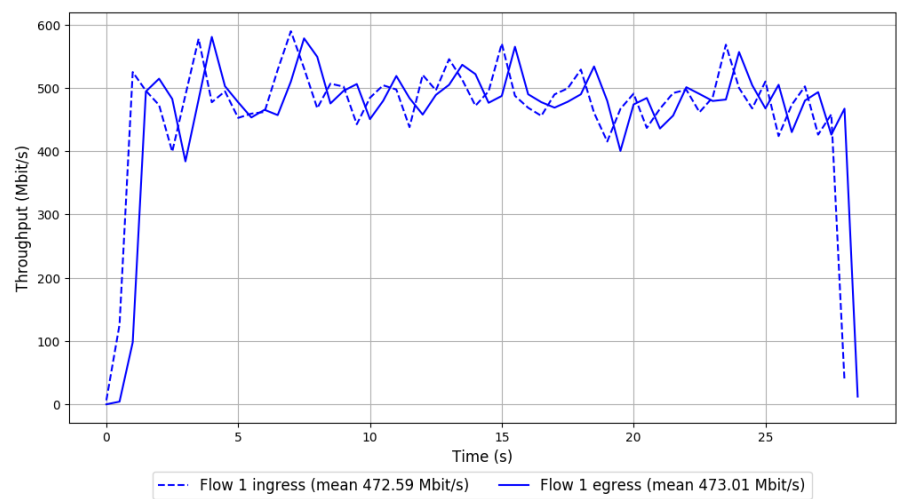
-- Flow 1:

Average throughput: 473.01 Mbit/s

95th percentile per-packet one-way delay: 50.993 ms

Loss rate: 0.25%

Run 5: Report of Indigo-MusesC3 — Data Link

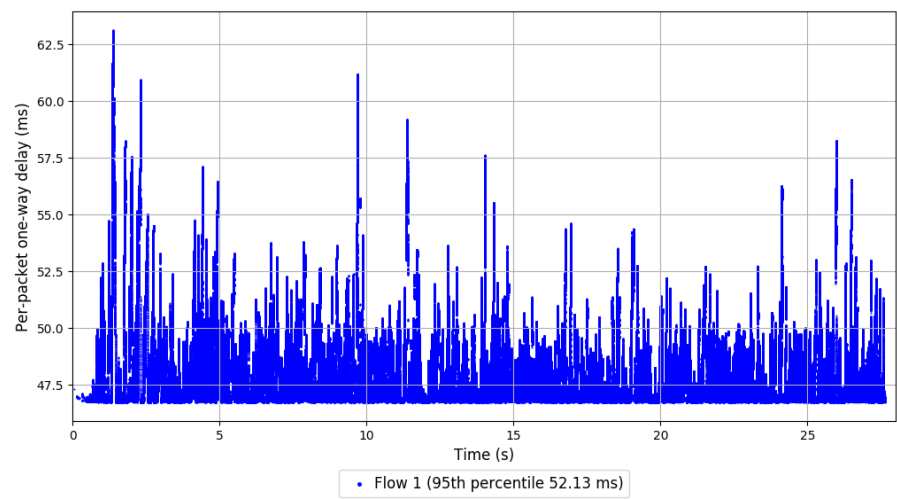
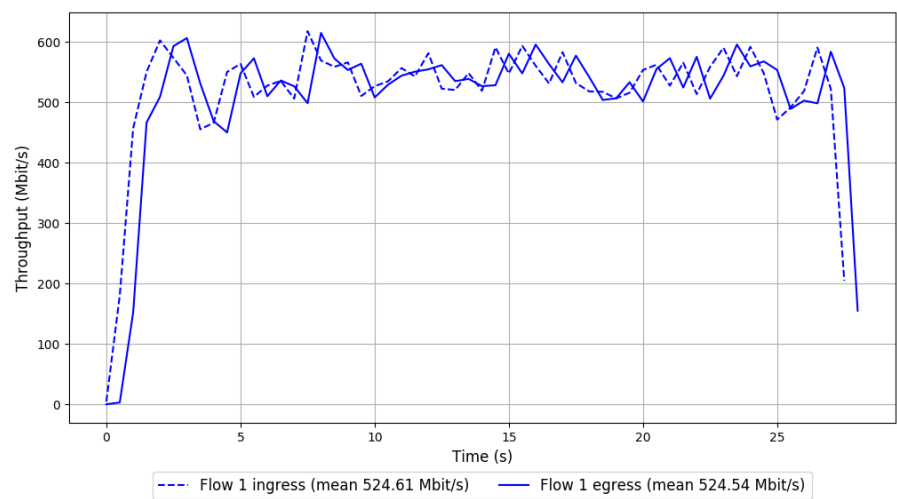


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-09-18 23:16:59
End at: 2019-09-18 23:17:29
Local clock offset: -0.513 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2019-09-19 02:37:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 524.54 Mbit/s
95th percentile per-packet one-way delay: 52.131 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 524.54 Mbit/s
95th percentile per-packet one-way delay: 52.131 ms
Loss rate: 0.37%

Run 1: Report of Indigo-MusesC5 — Data Link

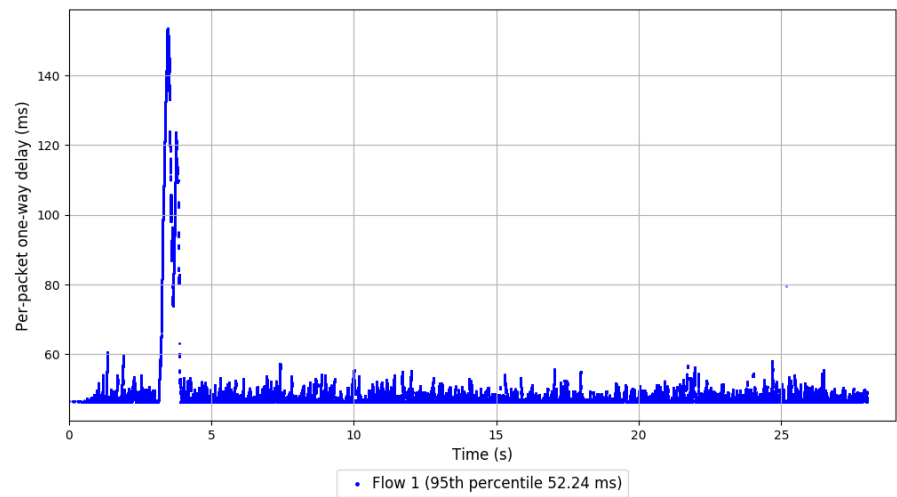
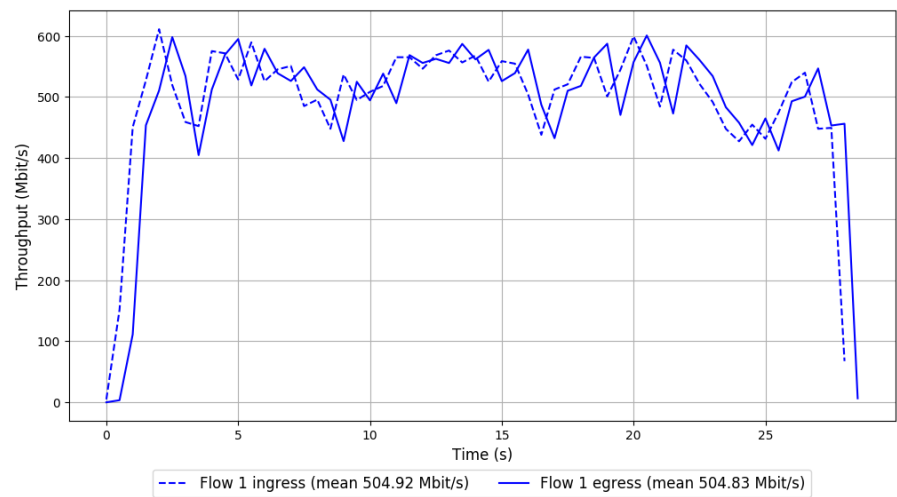


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-09-18 23:50:34
End at: 2019-09-18 23:51:04
Local clock offset: -0.125 ms
Remote clock offset: -0.072 ms

Below is generated by plot.py at 2019-09-19 02:39:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 504.83 Mbit/s
95th percentile per-packet one-way delay: 52.243 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 504.83 Mbit/s
95th percentile per-packet one-way delay: 52.243 ms
Loss rate: 0.37%

Run 2: Report of Indigo-MusesC5 — Data Link

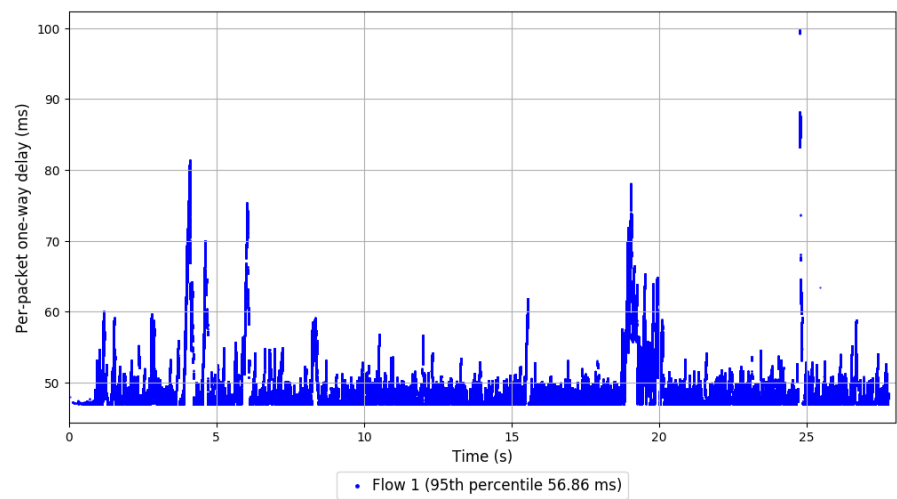
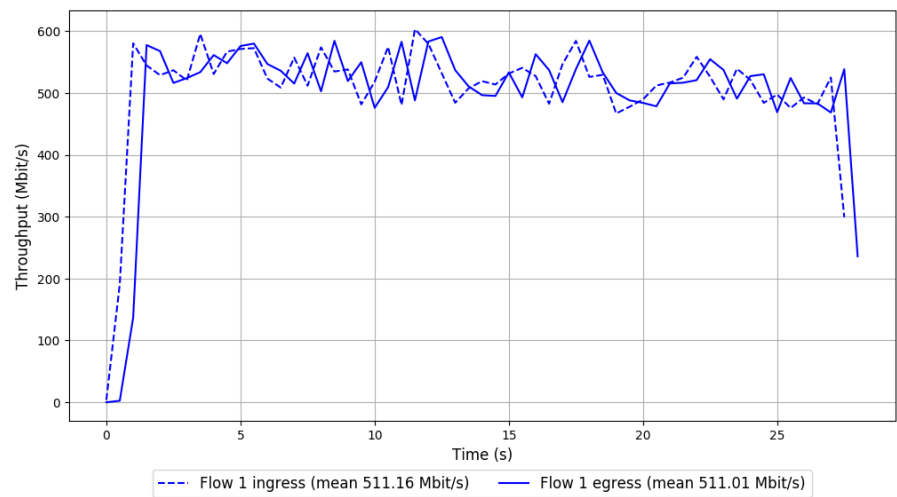


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-09-19 00:24:01
End at: 2019-09-19 00:24:31
Local clock offset: -0.171 ms
Remote clock offset: -0.065 ms

Below is generated by plot.py at 2019-09-19 02:42:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 511.01 Mbit/s
95th percentile per-packet one-way delay: 56.863 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 511.01 Mbit/s
95th percentile per-packet one-way delay: 56.863 ms
Loss rate: 0.37%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-09-19 00:57:32

End at: 2019-09-19 00:58:02

Local clock offset: -0.187 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2019-09-19 02:42:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 475.52 Mbit/s

95th percentile per-packet one-way delay: 51.738 ms

Loss rate: 0.42%

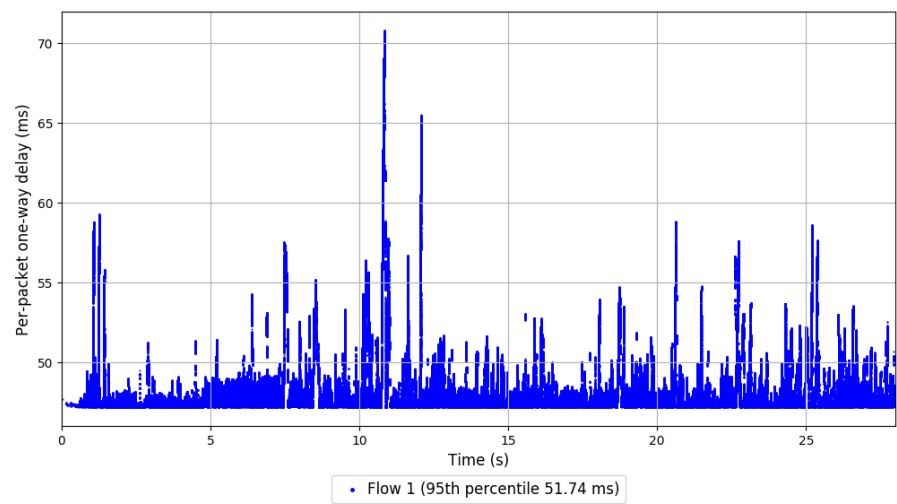
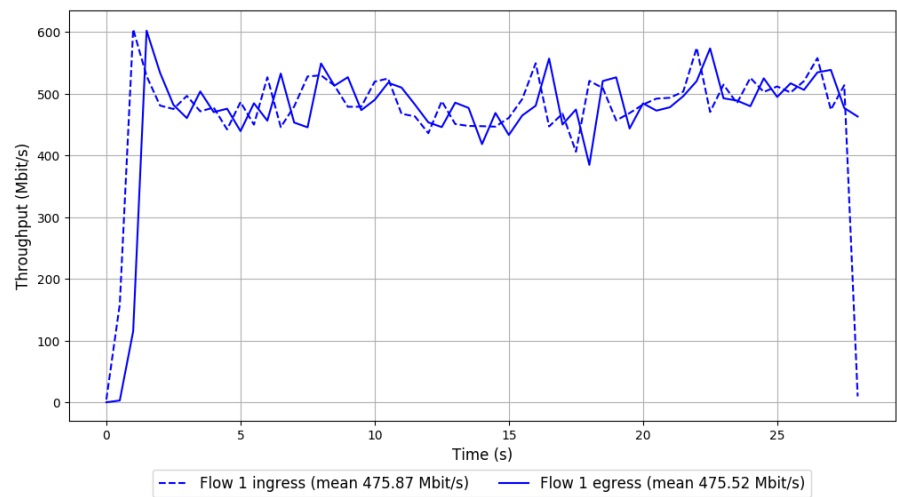
-- Flow 1:

Average throughput: 475.52 Mbit/s

95th percentile per-packet one-way delay: 51.738 ms

Loss rate: 0.42%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-09-19 01:31:44

End at: 2019-09-19 01:32:14

Local clock offset: -0.168 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2019-09-19 02:42:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 477.16 Mbit/s

95th percentile per-packet one-way delay: 57.540 ms

Loss rate: 0.40%

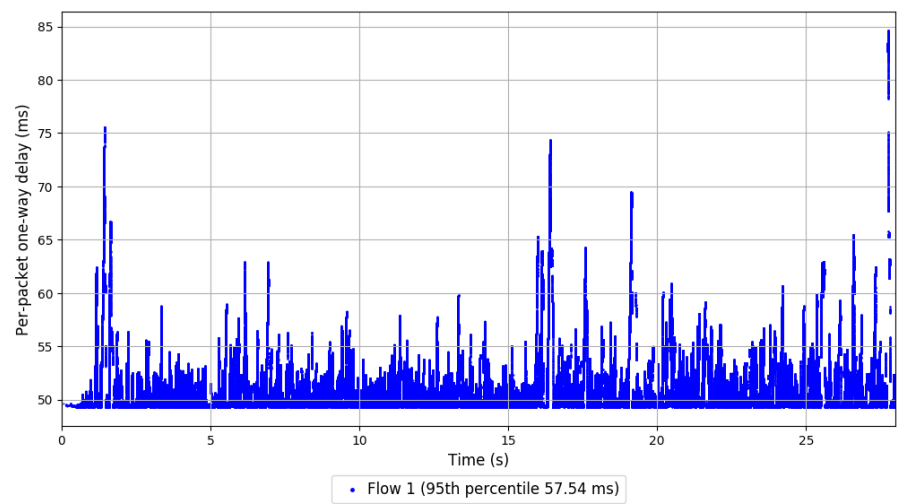
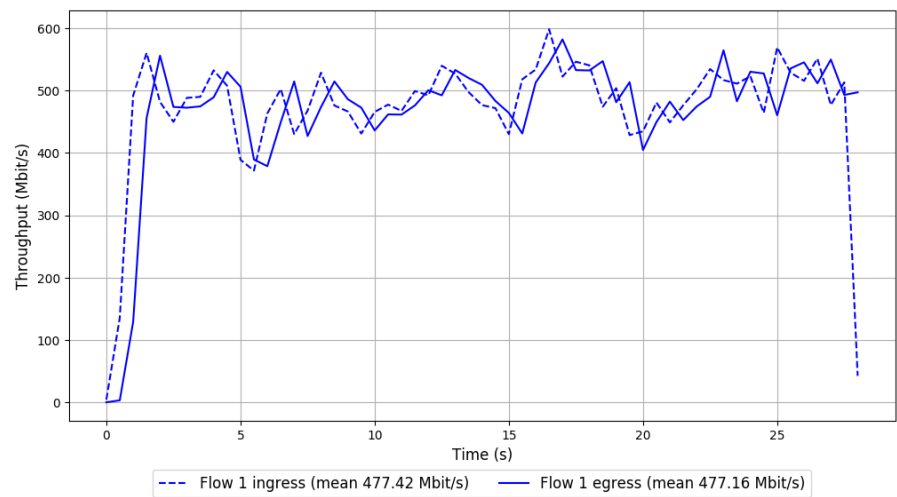
-- Flow 1:

Average throughput: 477.16 Mbit/s

95th percentile per-packet one-way delay: 57.540 ms

Loss rate: 0.40%

Run 5: Report of Indigo-MusesC5 — Data Link

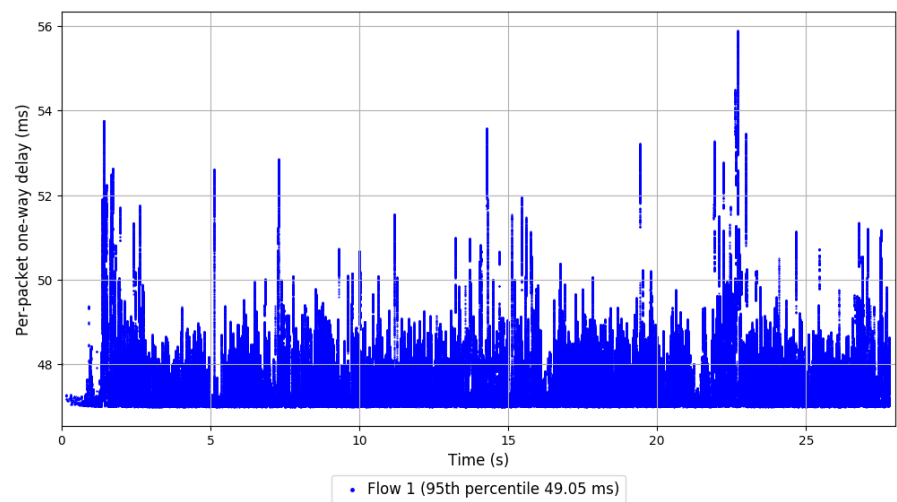
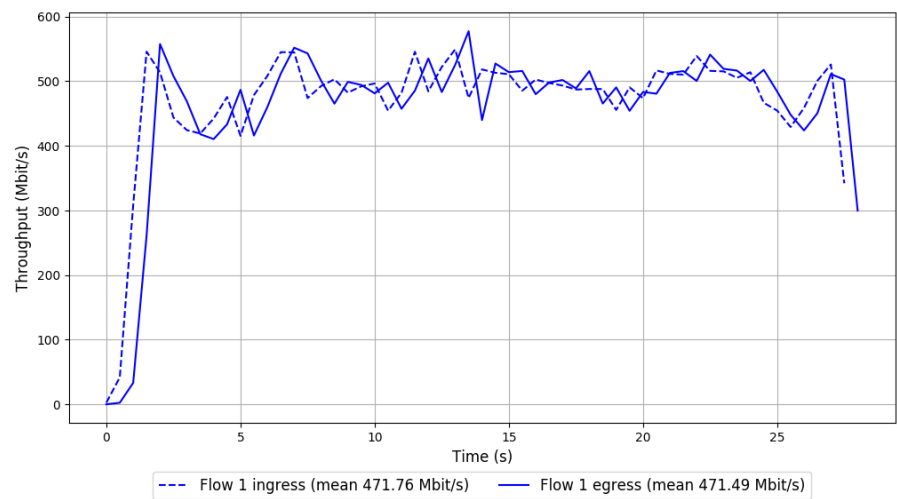


Run 1: Statistics of Indigo-MusesD

Start at: 2019-09-18 23:15:31
End at: 2019-09-18 23:16:01
Local clock offset: -0.157 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2019-09-19 02:43:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 471.49 Mbit/s
95th percentile per-packet one-way delay: 49.045 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 471.49 Mbit/s
95th percentile per-packet one-way delay: 49.045 ms
Loss rate: 0.40%

Run 1: Report of Indigo-MusesD — Data Link

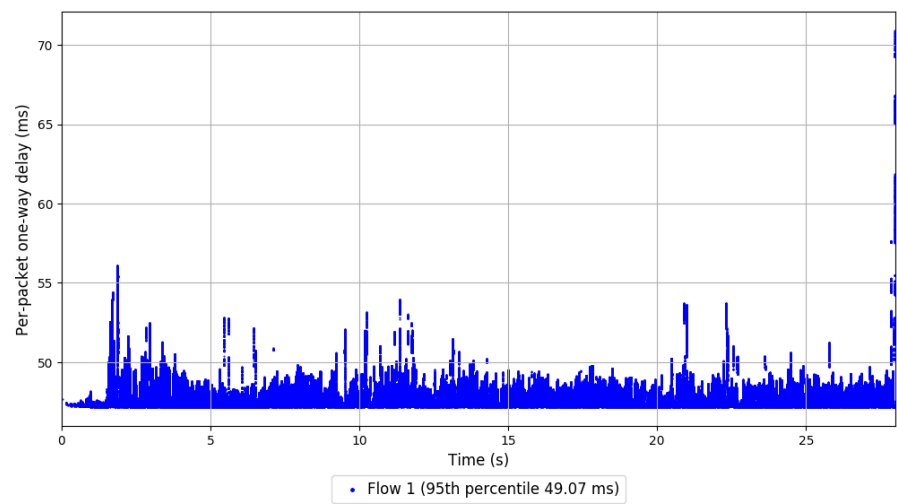
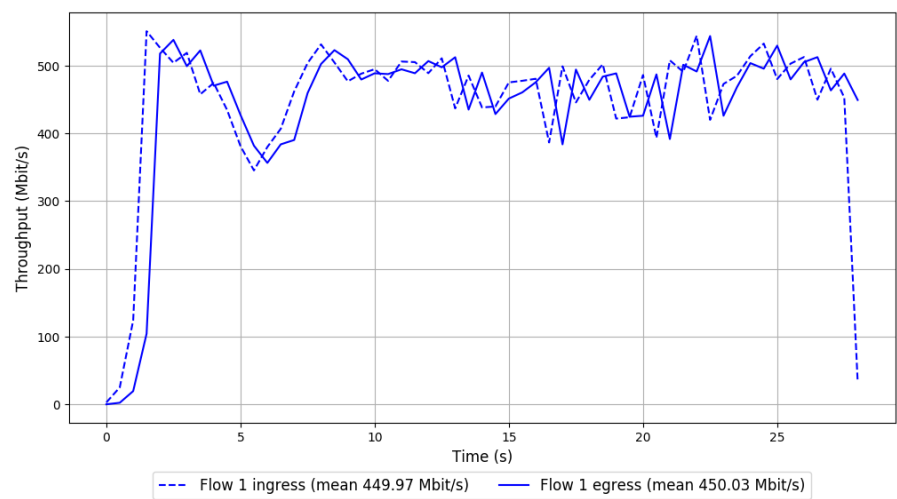


Run 2: Statistics of Indigo-MusesD

Start at: 2019-09-18 23:49:07
End at: 2019-09-18 23:49:37
Local clock offset: -0.147 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2019-09-19 02:43:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 450.03 Mbit/s
95th percentile per-packet one-way delay: 49.067 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 450.03 Mbit/s
95th percentile per-packet one-way delay: 49.067 ms
Loss rate: 0.33%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-09-19 00:22:34

End at: 2019-09-19 00:23:04

Local clock offset: -0.139 ms

Remote clock offset: -0.028 ms

Below is generated by plot.py at 2019-09-19 02:43:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 432.33 Mbit/s

95th percentile per-packet one-way delay: 48.376 ms

Loss rate: 0.36%

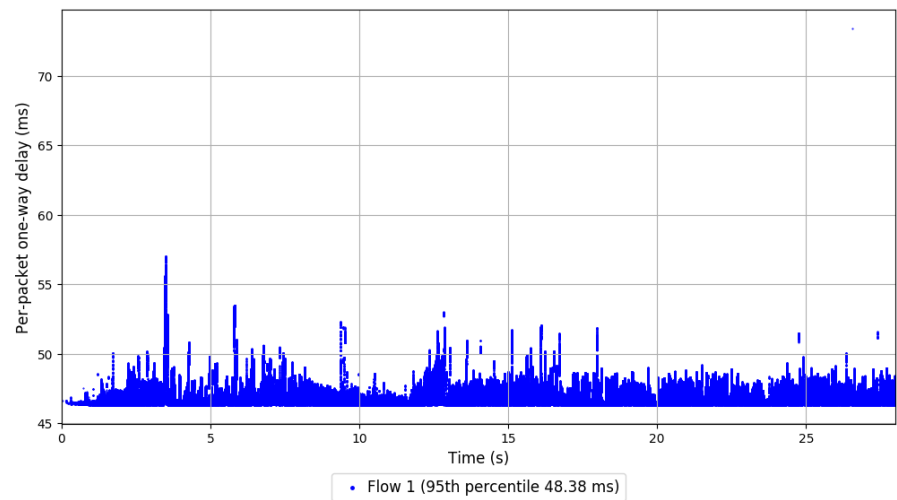
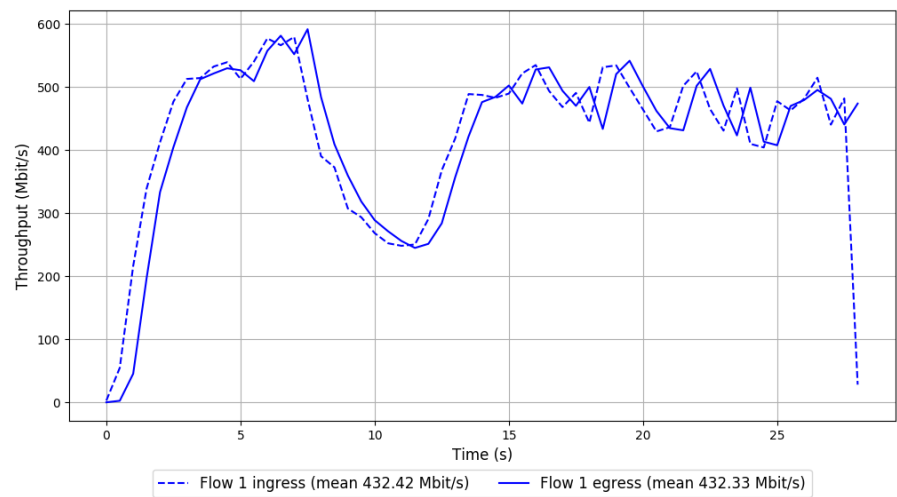
-- Flow 1:

Average throughput: 432.33 Mbit/s

95th percentile per-packet one-way delay: 48.376 ms

Loss rate: 0.36%

Run 3: Report of Indigo-MusesD — Data Link

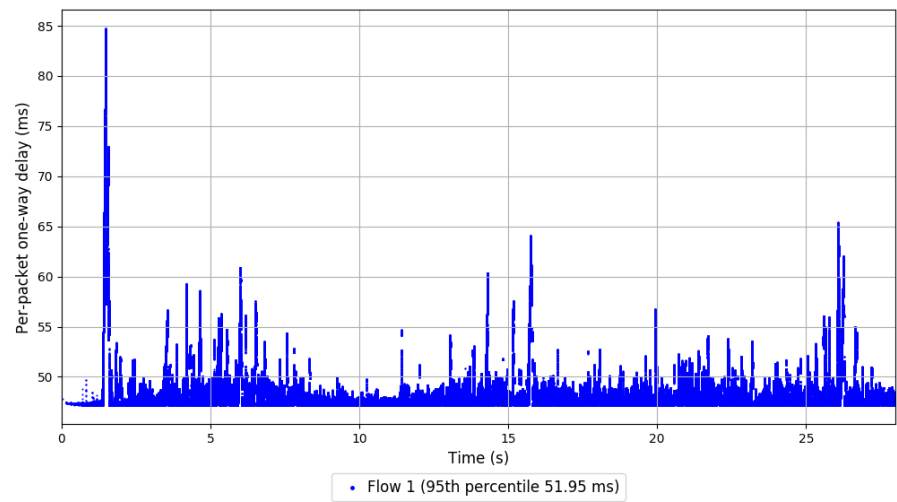
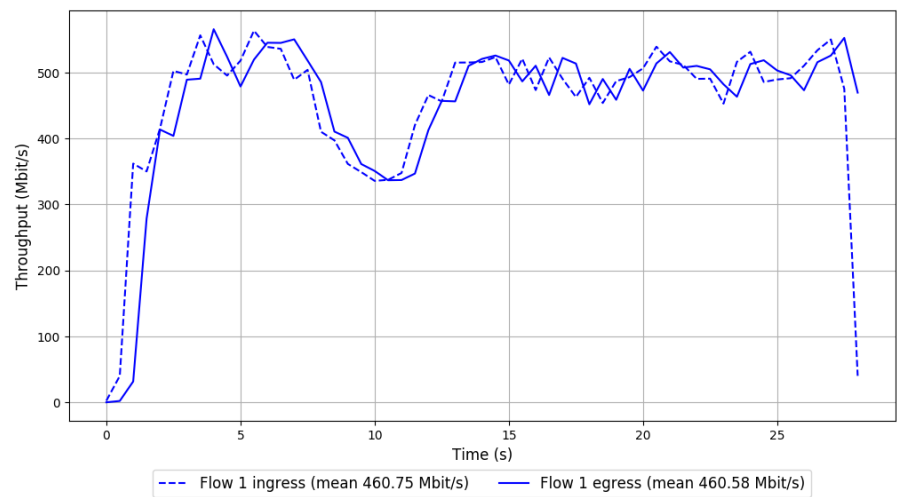


Run 4: Statistics of Indigo-MusesD

Start at: 2019-09-19 00:56:04
End at: 2019-09-19 00:56:34
Local clock offset: -0.181 ms
Remote clock offset: -0.019 ms

Below is generated by plot.py at 2019-09-19 02:45:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 460.58 Mbit/s
95th percentile per-packet one-way delay: 51.951 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 460.58 Mbit/s
95th percentile per-packet one-way delay: 51.951 ms
Loss rate: 0.39%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-09-19 01:30:15

End at: 2019-09-19 01:30:45

Local clock offset: -0.13 ms

Remote clock offset: 0.035 ms

Below is generated by plot.py at 2019-09-19 02:48:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 486.93 Mbit/s

95th percentile per-packet one-way delay: 51.540 ms

Loss rate: 0.28%

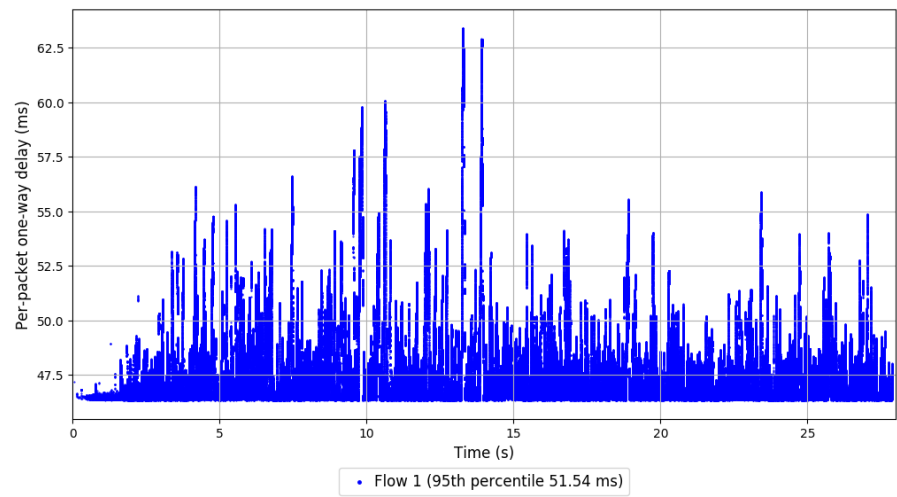
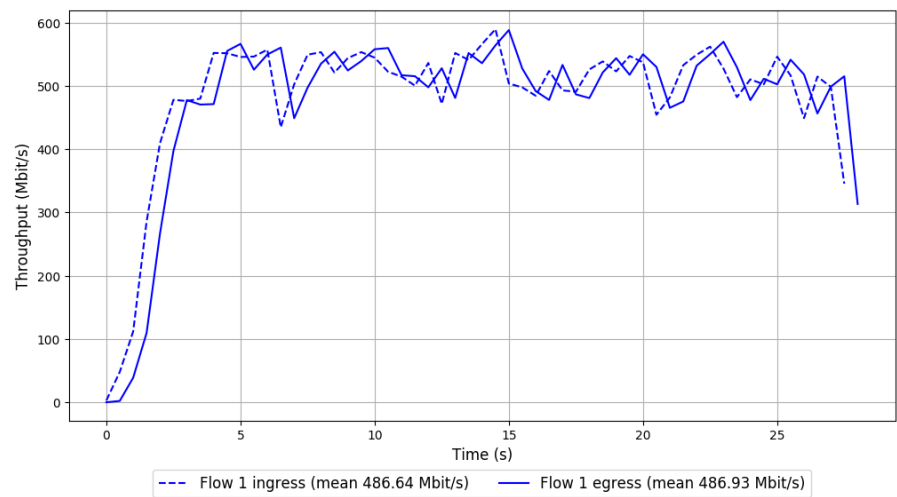
-- Flow 1:

Average throughput: 486.93 Mbit/s

95th percentile per-packet one-way delay: 51.540 ms

Loss rate: 0.28%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-09-18 23:09:34

End at: 2019-09-18 23:10:04

Local clock offset: -0.16 ms

Remote clock offset: -0.01 ms

Below is generated by plot.py at 2019-09-19 02:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 449.93 Mbit/s

95th percentile per-packet one-way delay: 49.627 ms

Loss rate: 0.45%

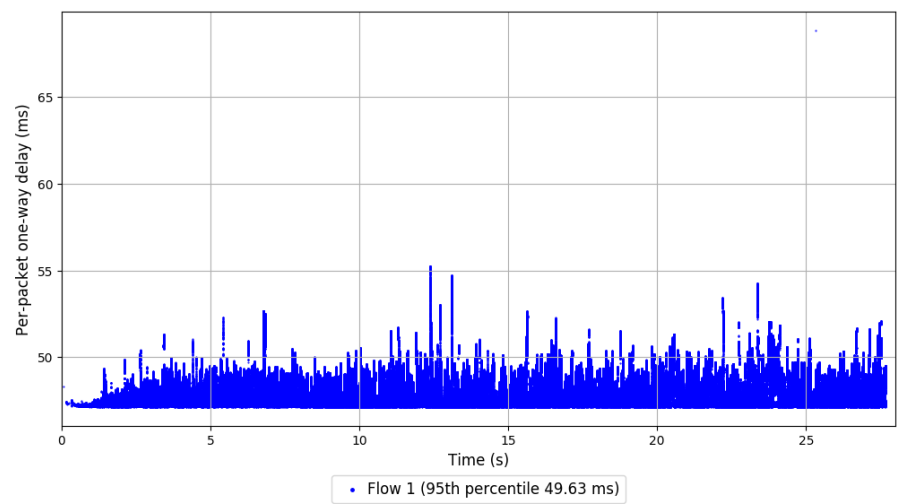
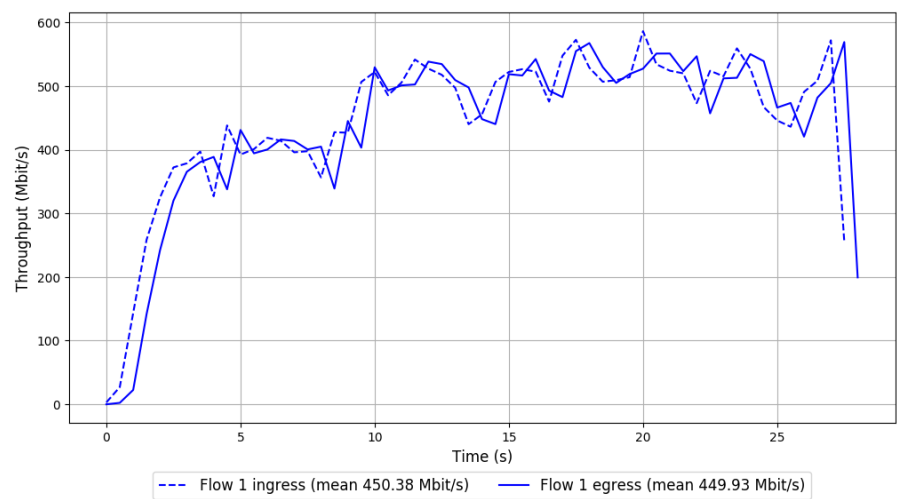
-- Flow 1:

Average throughput: 449.93 Mbit/s

95th percentile per-packet one-way delay: 49.627 ms

Loss rate: 0.45%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-09-18 23:43:03

End at: 2019-09-18 23:43:33

Local clock offset: -0.127 ms

Remote clock offset: -0.046 ms

Below is generated by plot.py at 2019-09-19 02:50:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 483.90 Mbit/s

95th percentile per-packet one-way delay: 48.824 ms

Loss rate: 0.31%

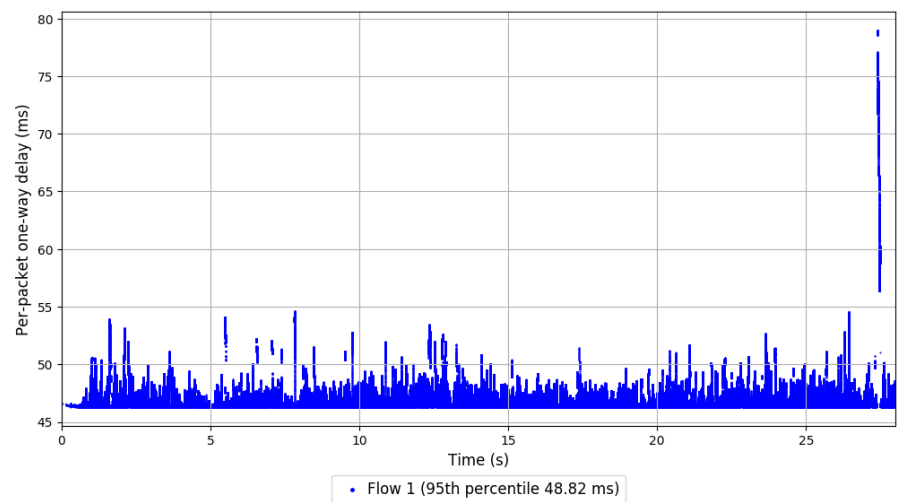
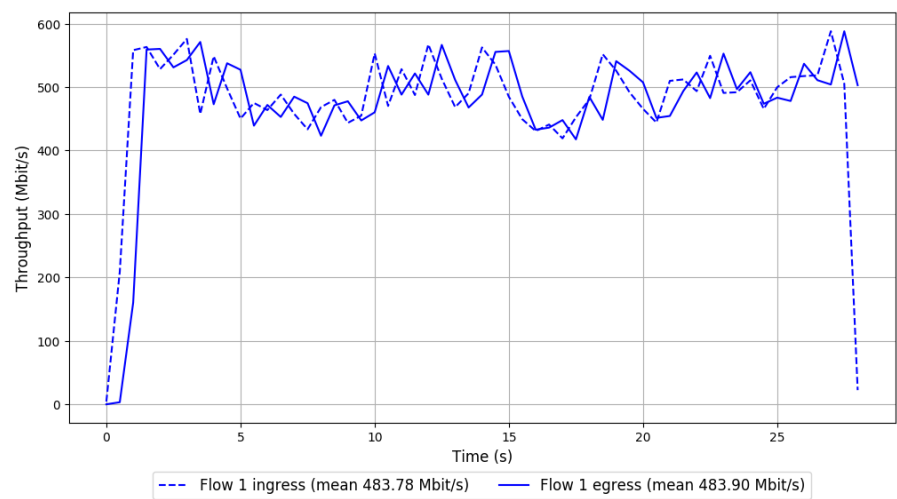
-- Flow 1:

Average throughput: 483.90 Mbit/s

95th percentile per-packet one-way delay: 48.824 ms

Loss rate: 0.31%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-09-19 00:16:29

End at: 2019-09-19 00:16:59

Local clock offset: -0.156 ms

Remote clock offset: -0.06 ms

Below is generated by plot.py at 2019-09-19 02:50:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 471.14 Mbit/s

95th percentile per-packet one-way delay: 49.834 ms

Loss rate: 0.37%

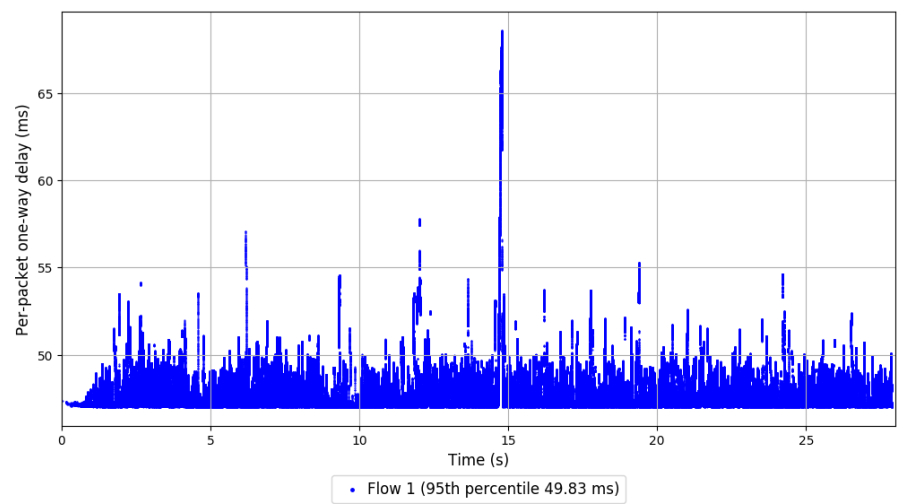
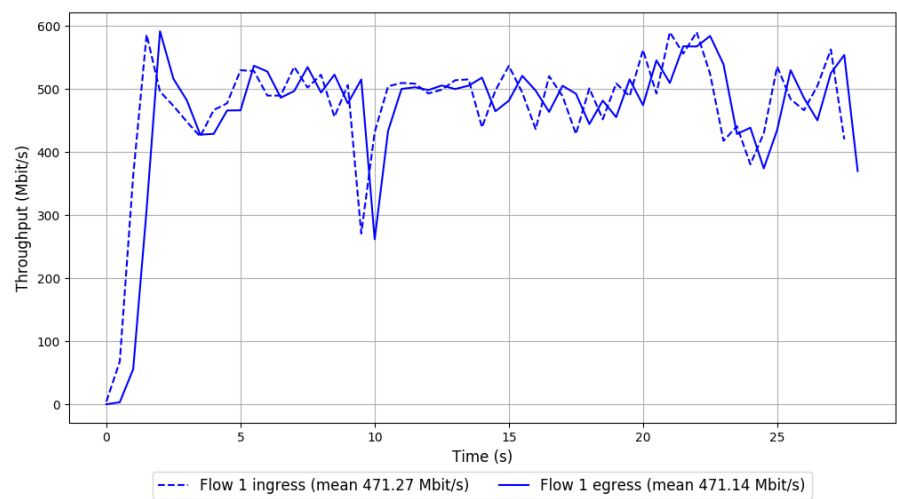
-- Flow 1:

Average throughput: 471.14 Mbit/s

95th percentile per-packet one-way delay: 49.834 ms

Loss rate: 0.37%

Run 3: Report of Indigo-MusesT — Data Link

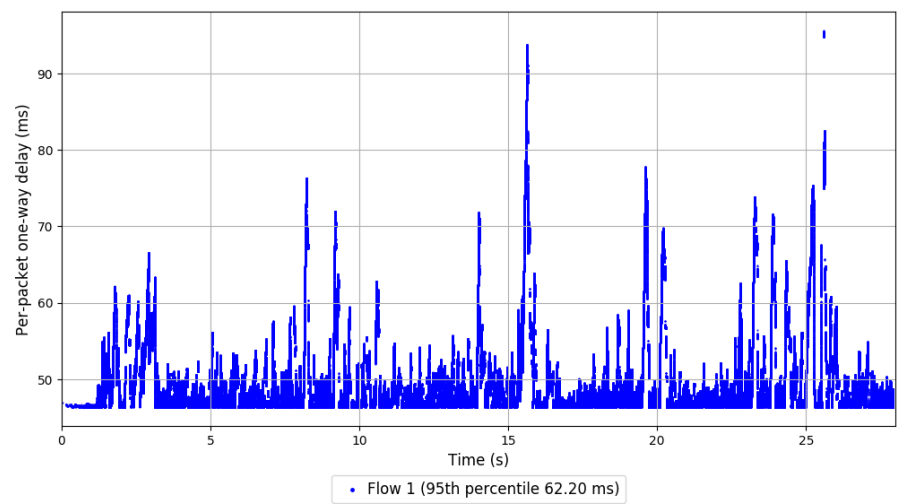
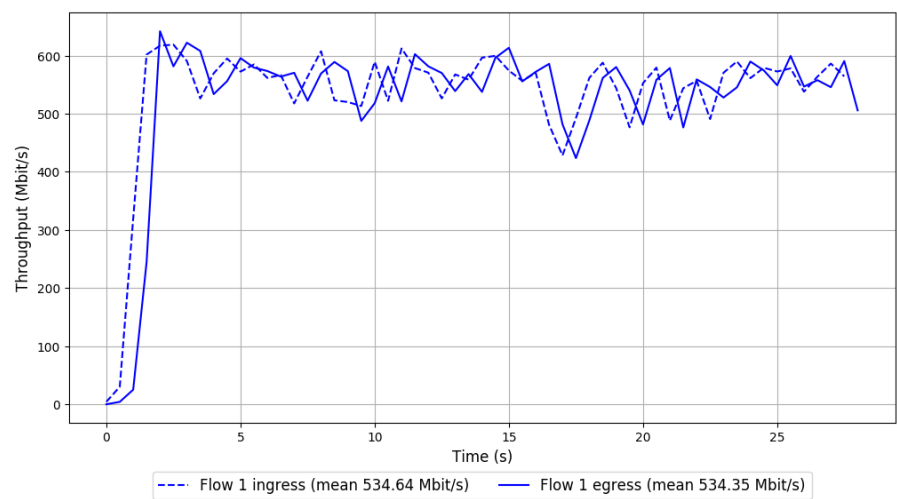


Run 4: Statistics of Indigo-MusesT

Start at: 2019-09-19 00:49:58
End at: 2019-09-19 00:50:28
Local clock offset: -0.173 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2019-09-19 02:52:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 534.35 Mbit/s
95th percentile per-packet one-way delay: 62.198 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 534.35 Mbit/s
95th percentile per-packet one-way delay: 62.198 ms
Loss rate: 0.40%

Run 4: Report of Indigo-MusesT — Data Link

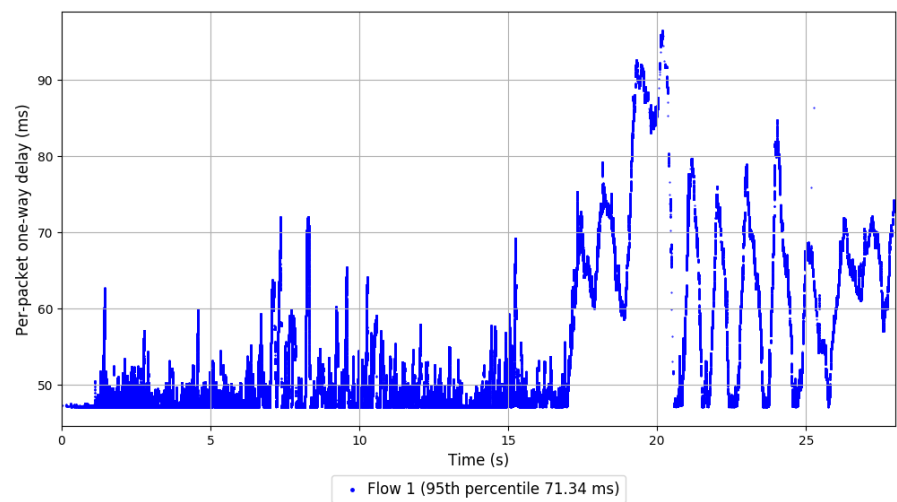
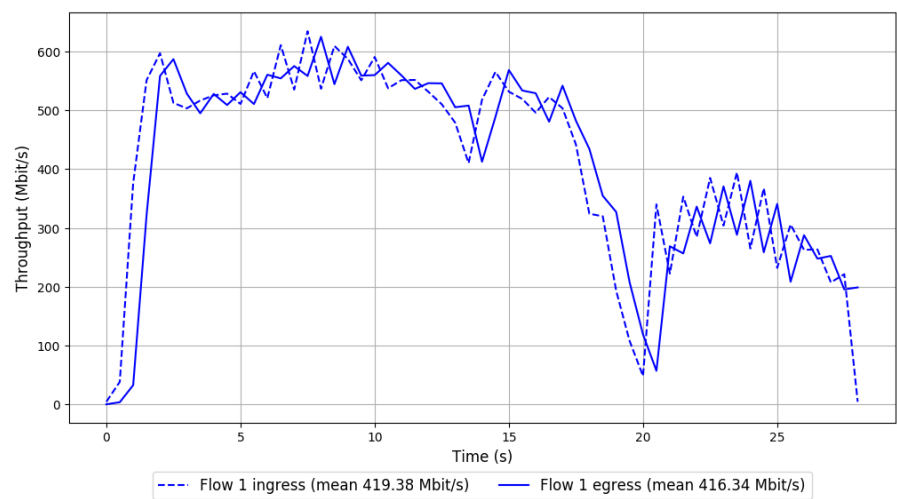


Run 5: Statistics of Indigo-MusesT

Start at: 2019-09-19 01:23:37
End at: 2019-09-19 01:24:07
Local clock offset: -0.195 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2019-09-19 02:52:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 416.34 Mbit/s
95th percentile per-packet one-way delay: 71.338 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 416.34 Mbit/s
95th percentile per-packet one-way delay: 71.338 ms
Loss rate: 1.07%

Run 5: Report of Indigo-MusesT — Data Link

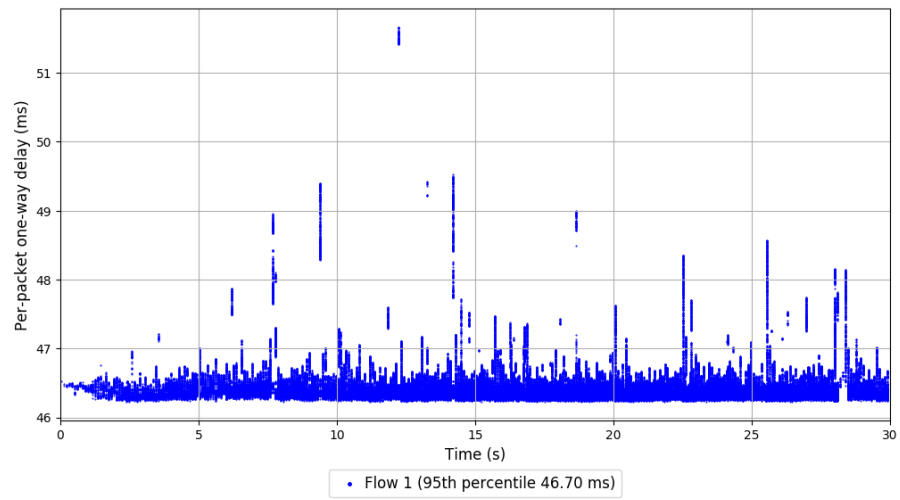
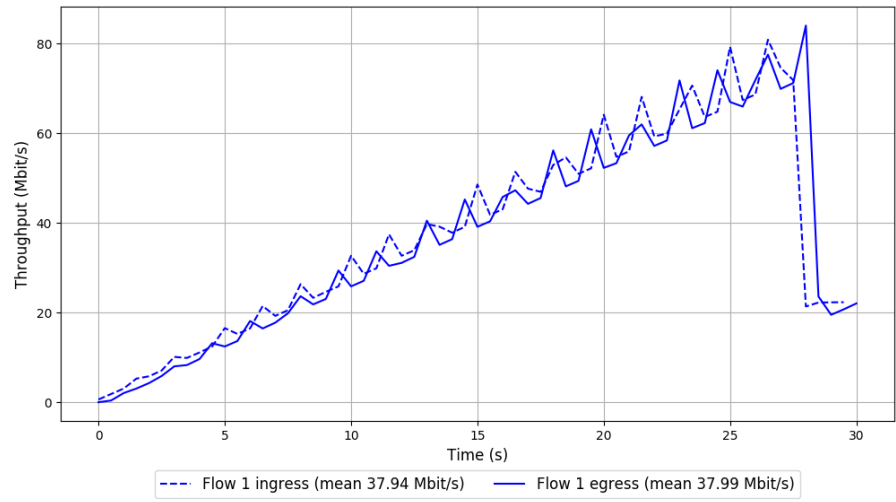


Run 1: Statistics of LEDBAT

Start at: 2019-09-18 23:06:56
End at: 2019-09-18 23:07:26
Local clock offset: -0.194 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2019-09-19 02:52:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 37.99 Mbit/s
95th percentile per-packet one-way delay: 46.696 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 37.99 Mbit/s
95th percentile per-packet one-way delay: 46.696 ms
Loss rate: 0.20%

Run 1: Report of LEDBAT — Data Link

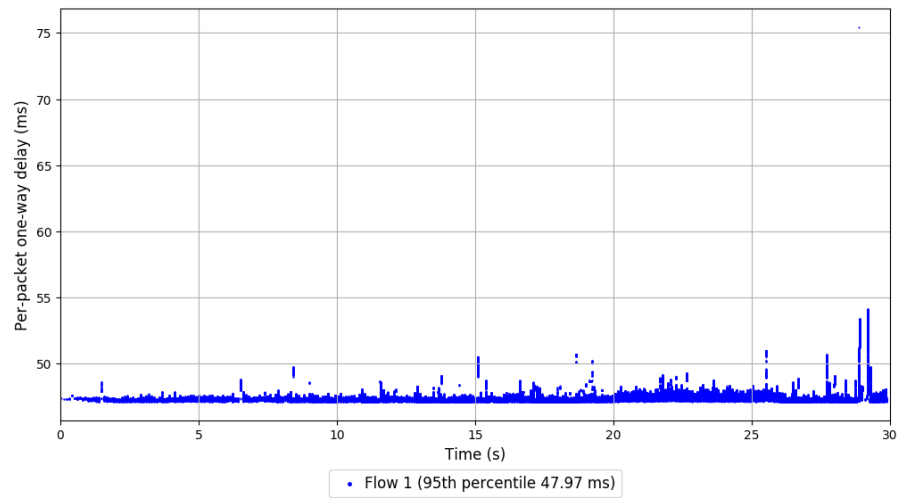
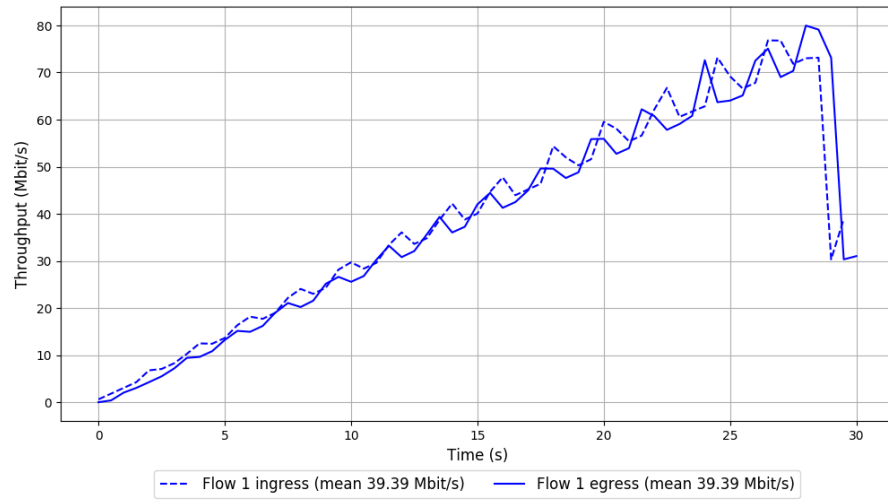


Run 2: Statistics of LEDBAT

Start at: 2019-09-18 23:40:25
End at: 2019-09-18 23:40:55
Local clock offset: -0.114 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2019-09-19 02:52:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 39.39 Mbit/s
95th percentile per-packet one-way delay: 47.973 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 39.39 Mbit/s
95th percentile per-packet one-way delay: 47.973 ms
Loss rate: 0.33%

Run 2: Report of LEDBAT — Data Link

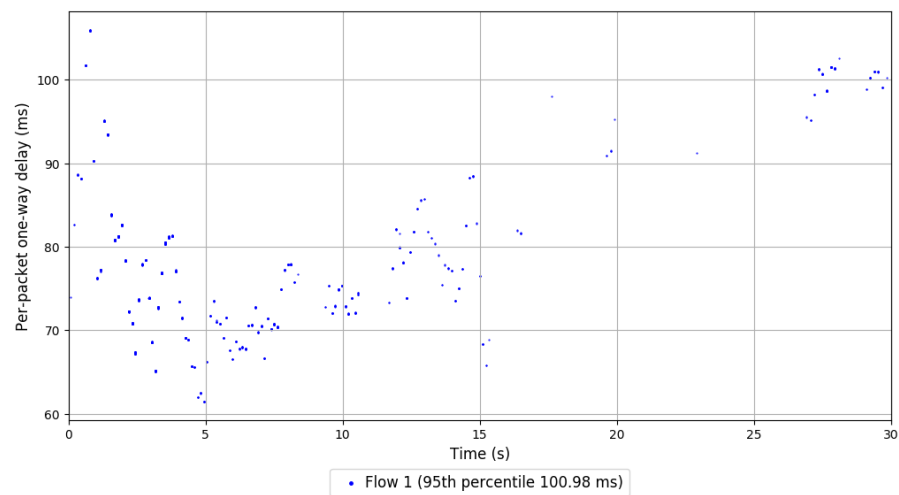
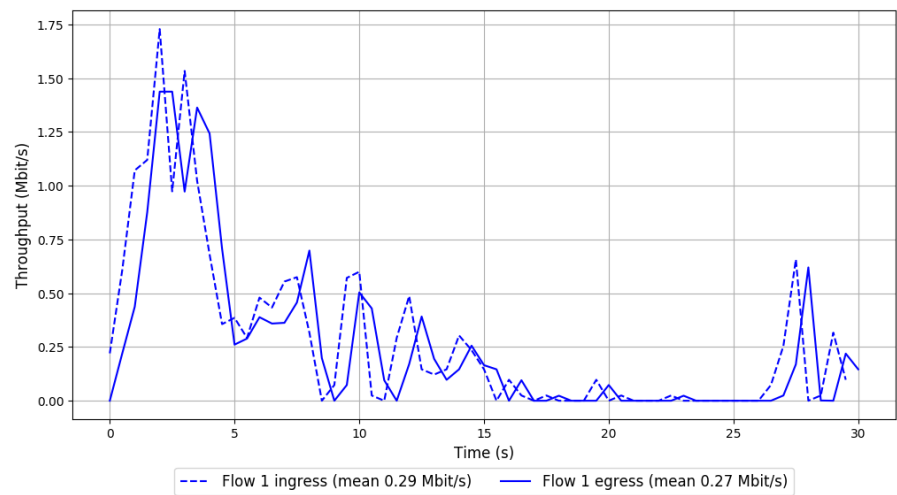


Run 3: Statistics of LEDBAT

Start at: 2019-09-19 00:13:52
End at: 2019-09-19 00:14:22
Local clock offset: -0.113 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2019-09-19 02:52:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 100.983 ms
Loss rate: 8.38%
-- Flow 1:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 100.983 ms
Loss rate: 8.38%

Run 3: Report of LEDBAT — Data Link

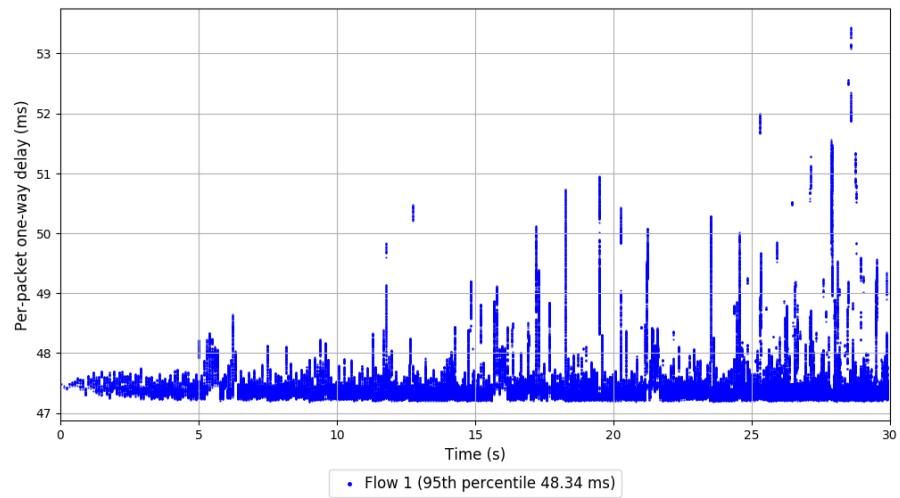
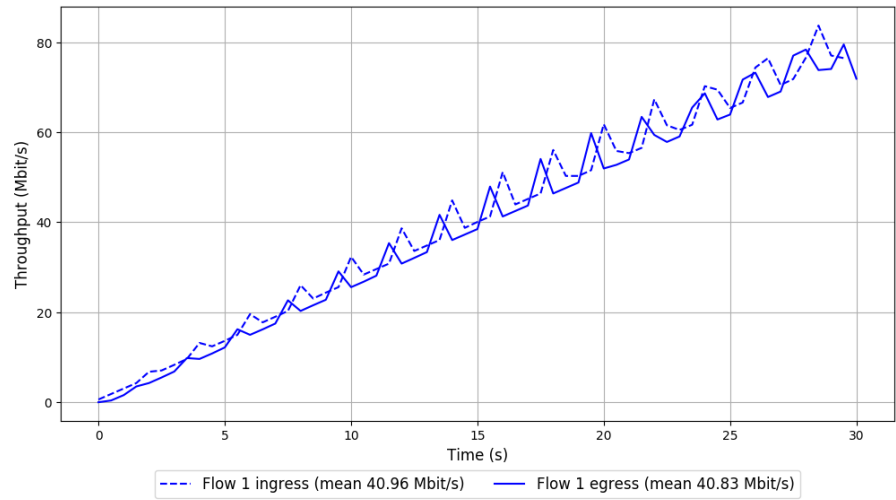


Run 4: Statistics of LEDBAT

Start at: 2019-09-19 00:47:17
End at: 2019-09-19 00:47:47
Local clock offset: -0.203 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2019-09-19 02:52:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 40.83 Mbit/s
95th percentile per-packet one-way delay: 48.339 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 40.83 Mbit/s
95th percentile per-packet one-way delay: 48.339 ms
Loss rate: 0.63%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-09-19 01:20:57

End at: 2019-09-19 01:21:27

Local clock offset: -0.201 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2019-09-19 02:52:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.34 Mbit/s

95th percentile per-packet one-way delay: 50.048 ms

Loss rate: 0.78%

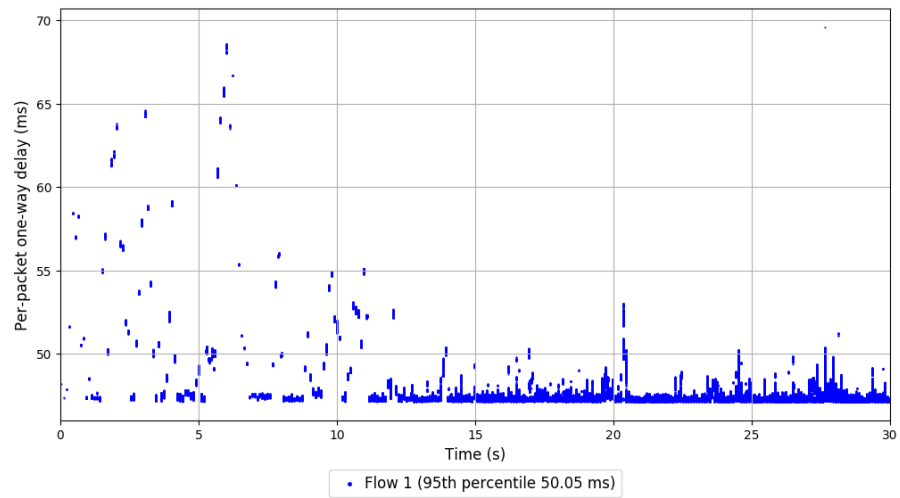
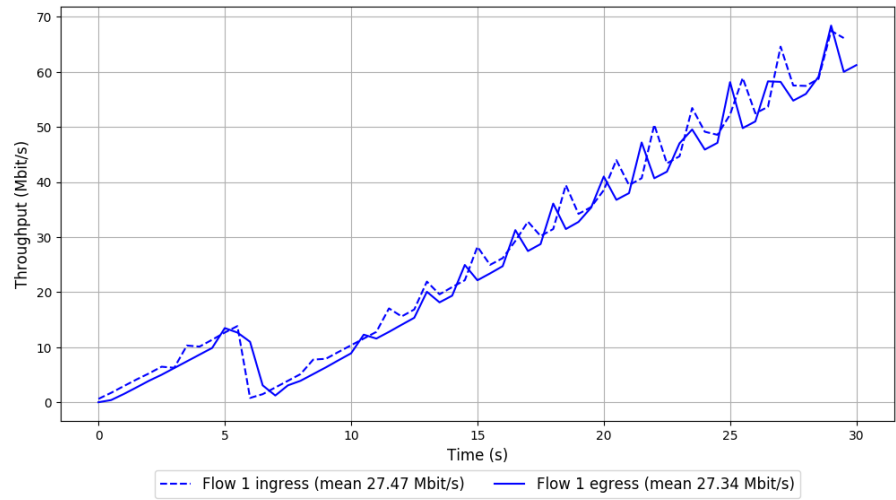
-- Flow 1:

Average throughput: 27.34 Mbit/s

95th percentile per-packet one-way delay: 50.048 ms

Loss rate: 0.78%

Run 5: Report of LEDBAT — Data Link

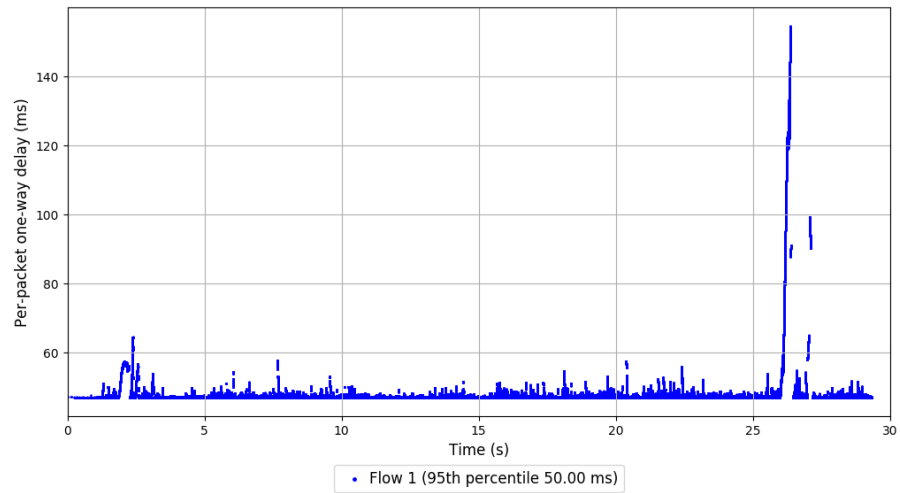
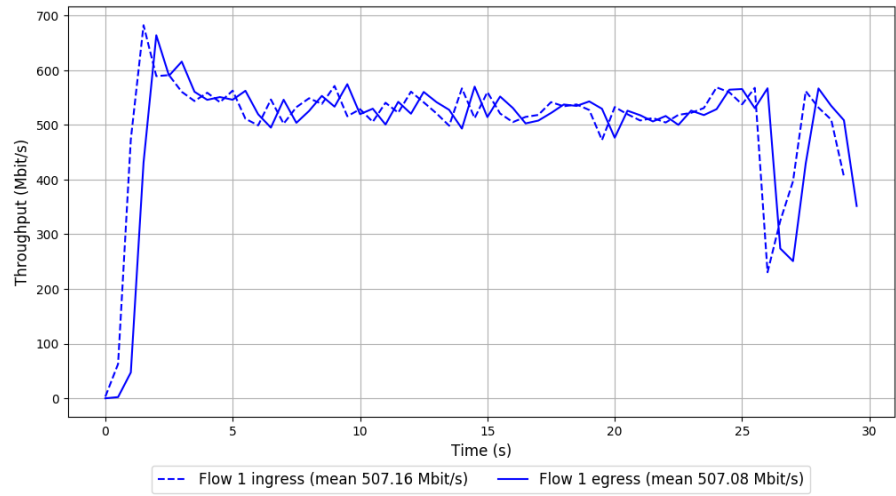


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-09-18 23:05:25
End at: 2019-09-18 23:05:55
Local clock offset: -0.165 ms
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2019-09-19 02:56:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 507.08 Mbit/s
95th percentile per-packet one-way delay: 49.999 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 507.08 Mbit/s
95th percentile per-packet one-way delay: 49.999 ms
Loss rate: 0.34%
```

Run 1: Report of Muses_DecisionTree — Data Link

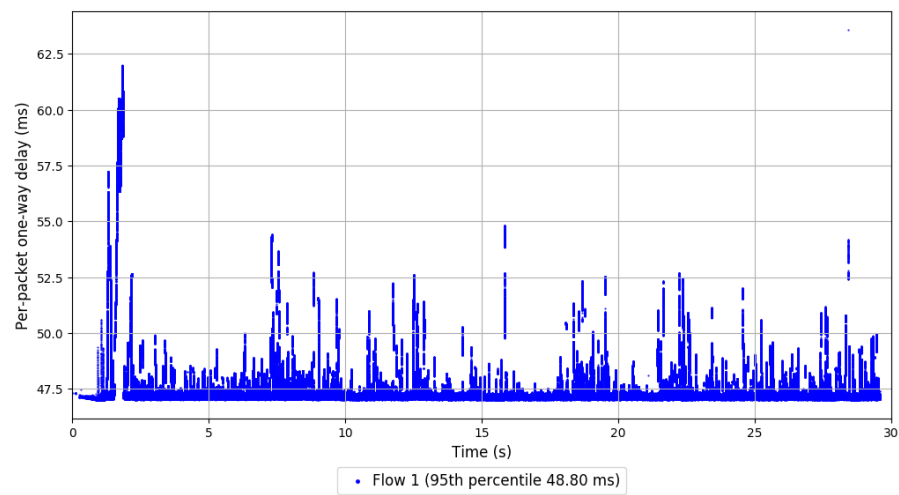
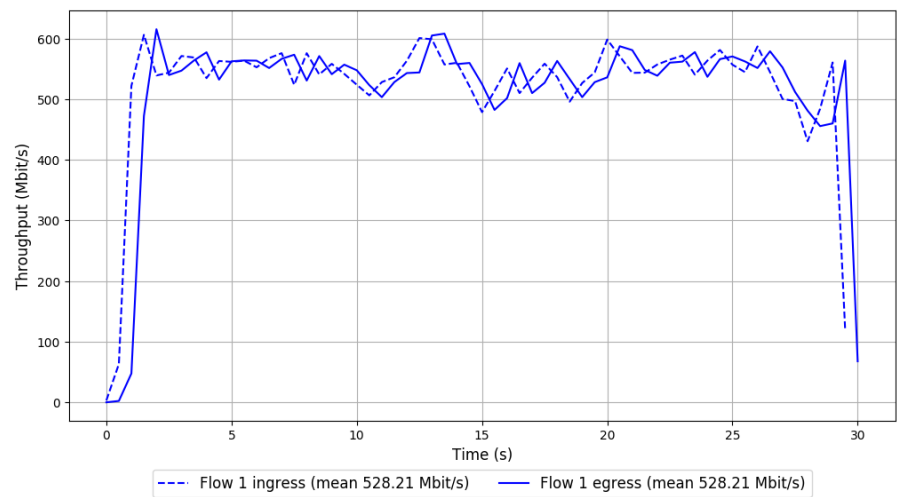


Run 2: Statistics of Muses_DecisionTree

Start at: 2019-09-18 23:38:53
End at: 2019-09-18 23:39:23
Local clock offset: -0.139 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2019-09-19 02:57:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 528.21 Mbit/s
95th percentile per-packet one-way delay: 48.804 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 528.21 Mbit/s
95th percentile per-packet one-way delay: 48.804 ms
Loss rate: 0.32%

Run 2: Report of Muses_DecisionTree — Data Link

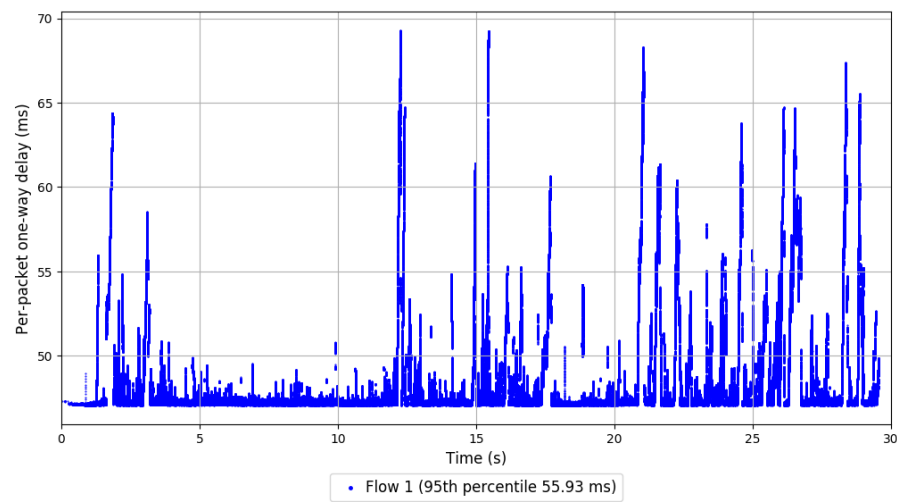
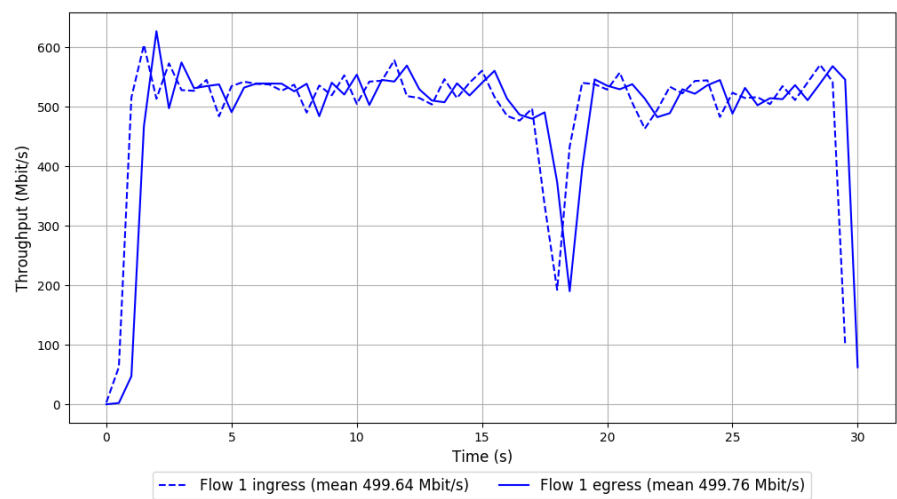


Run 3: Statistics of Muses_DecisionTree

Start at: 2019-09-19 00:12:22
End at: 2019-09-19 00:12:52
Local clock offset: -0.123 ms
Remote clock offset: -0.053 ms

Below is generated by plot.py at 2019-09-19 02:58:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 499.76 Mbit/s
95th percentile per-packet one-way delay: 55.934 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 499.76 Mbit/s
95th percentile per-packet one-way delay: 55.934 ms
Loss rate: 0.30%

Run 3: Report of Muses_DecisionTree — Data Link

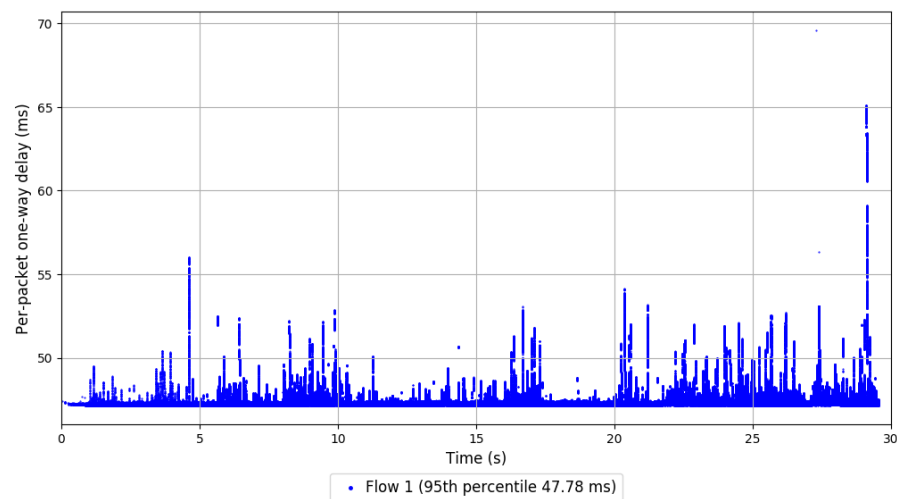
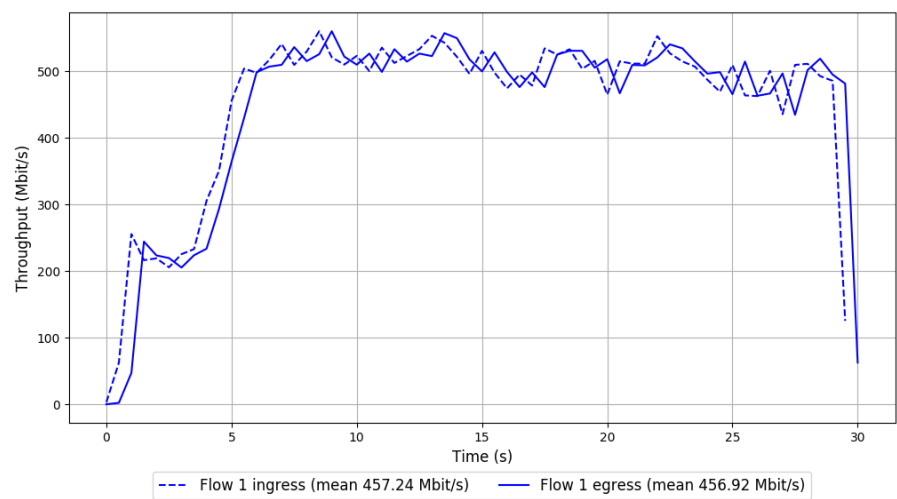


Run 4: Statistics of Muses_DecisionTree

Start at: 2019-09-19 00:45:48
End at: 2019-09-19 00:46:18
Local clock offset: -0.216 ms
Remote clock offset: -0.038 ms

Below is generated by plot.py at 2019-09-19 02:58:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 456.92 Mbit/s
95th percentile per-packet one-way delay: 47.781 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 456.92 Mbit/s
95th percentile per-packet one-way delay: 47.781 ms
Loss rate: 0.41%

Run 4: Report of Muses_DecisionTree — Data Link

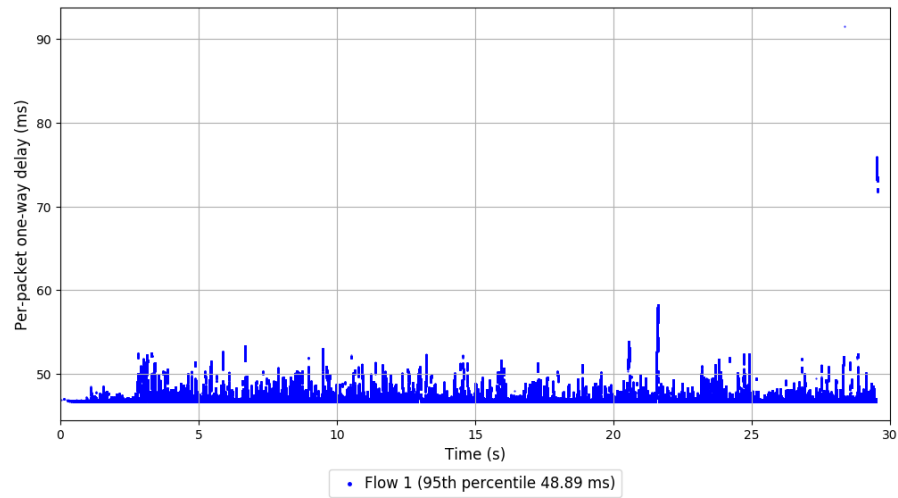
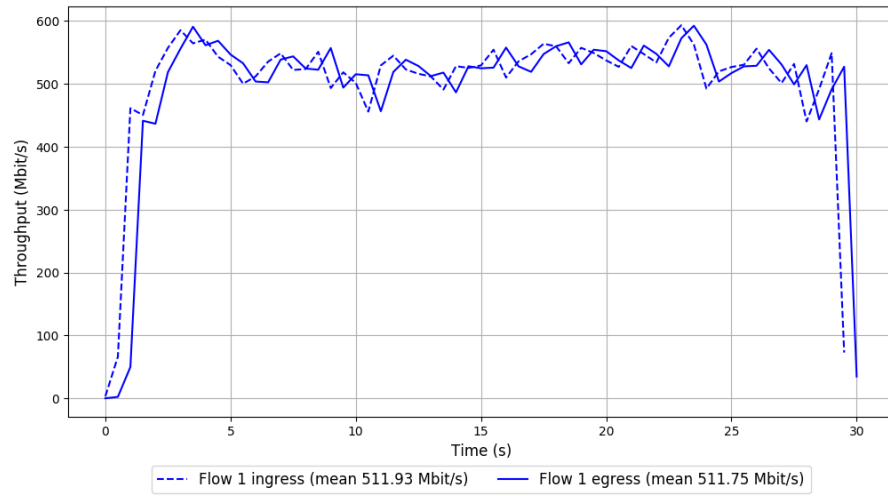


Run 5: Statistics of Muses_DecisionTree

Start at: 2019-09-19 01:19:25
End at: 2019-09-19 01:19:55
Local clock offset: 0.161 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2019-09-19 03:00:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 511.75 Mbit/s
95th percentile per-packet one-way delay: 48.894 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 511.75 Mbit/s
95th percentile per-packet one-way delay: 48.894 ms
Loss rate: 0.35%

Run 5: Report of Muses_DecisionTree — Data Link



Run 1: Statistics of Muses_DecisionTreeH0

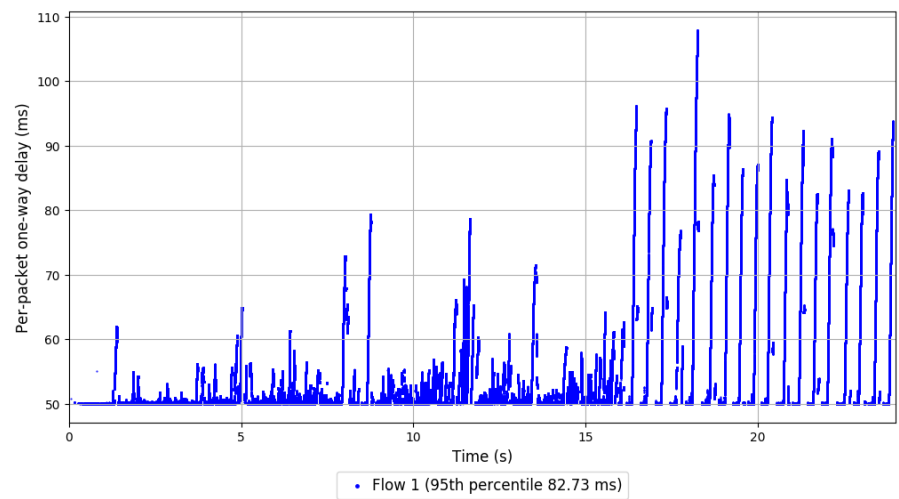
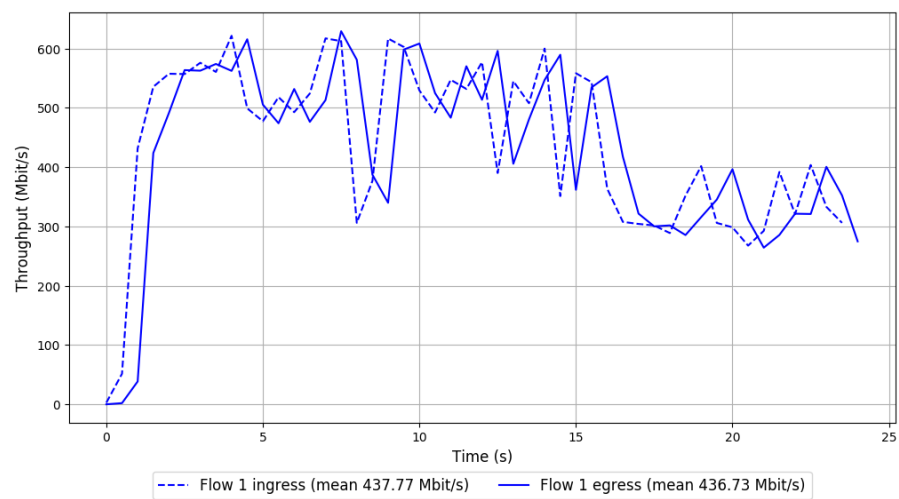
Start at: 2019-09-18 23:00:18

End at: 2019-09-18 23:00:48

Local clock offset: -0.201 ms

Remote clock offset: -0.042 ms

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-09-18 23:33:24

End at: 2019-09-18 23:33:54

Local clock offset: -0.09 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2019-09-19 03:00:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 478.83 Mbit/s

95th percentile per-packet one-way delay: 64.121 ms

Loss rate: 0.33%

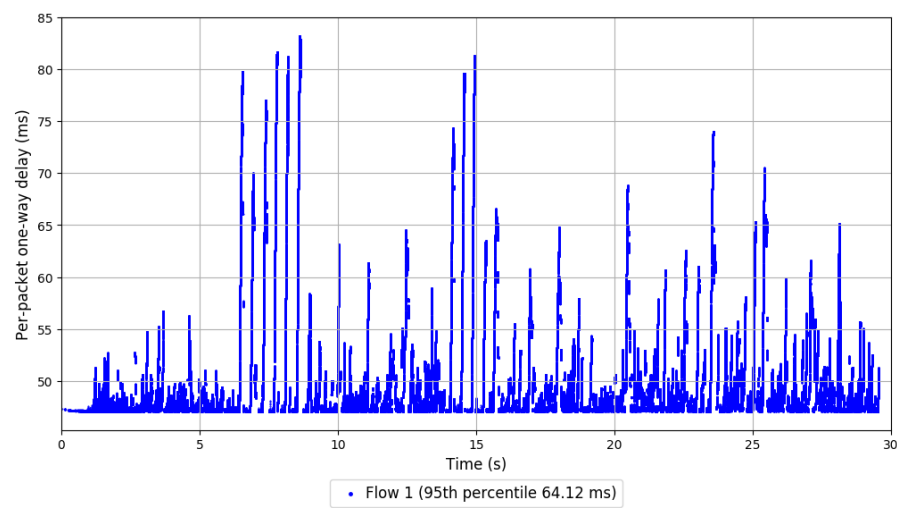
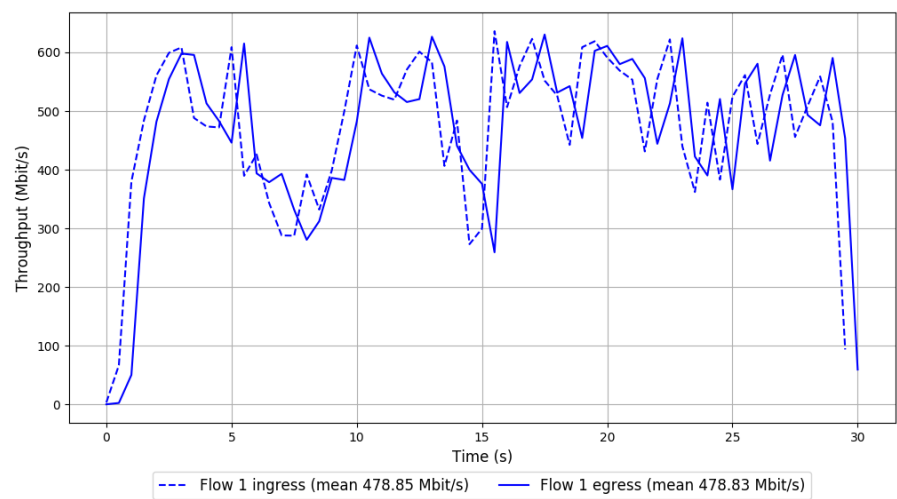
-- Flow 1:

Average throughput: 478.83 Mbit/s

95th percentile per-packet one-way delay: 64.121 ms

Loss rate: 0.33%

Run 2: Report of Muses_DecisionTreeH0 — Data Link

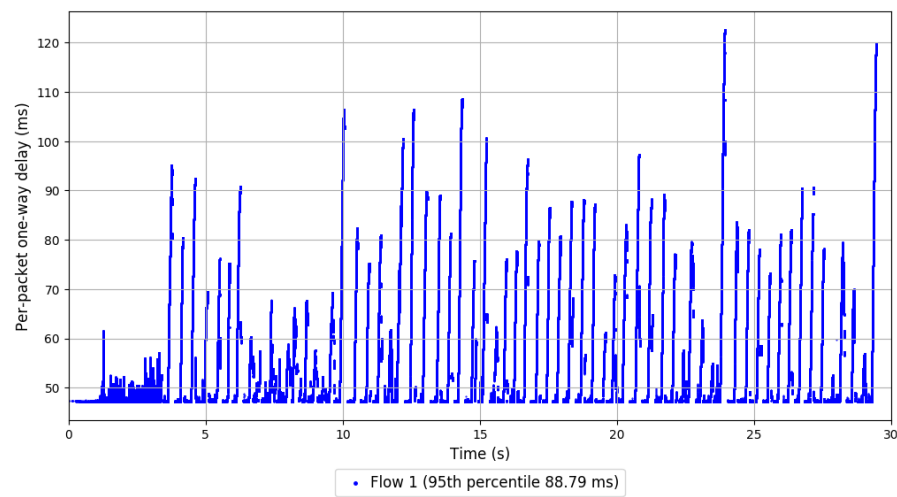
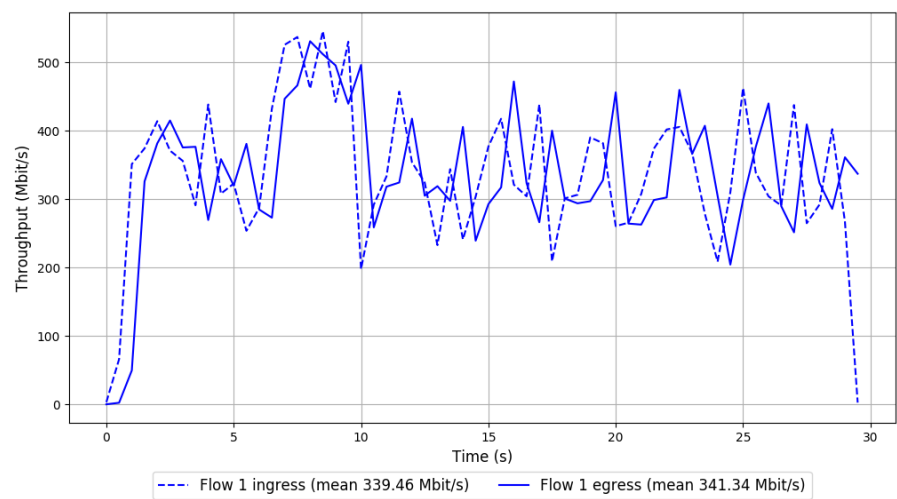


Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-09-19 00:06:57
End at: 2019-09-19 00:07:27
Local clock offset: -0.11 ms
Remote clock offset: -0.065 ms

Below is generated by plot.py at 2019-09-19 03:00:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 341.34 Mbit/s
95th percentile per-packet one-way delay: 88.793 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 341.34 Mbit/s
95th percentile per-packet one-way delay: 88.793 ms
Loss rate: 0.01%

Run 3: Report of Muses_DecisionTreeH0 — Data Link

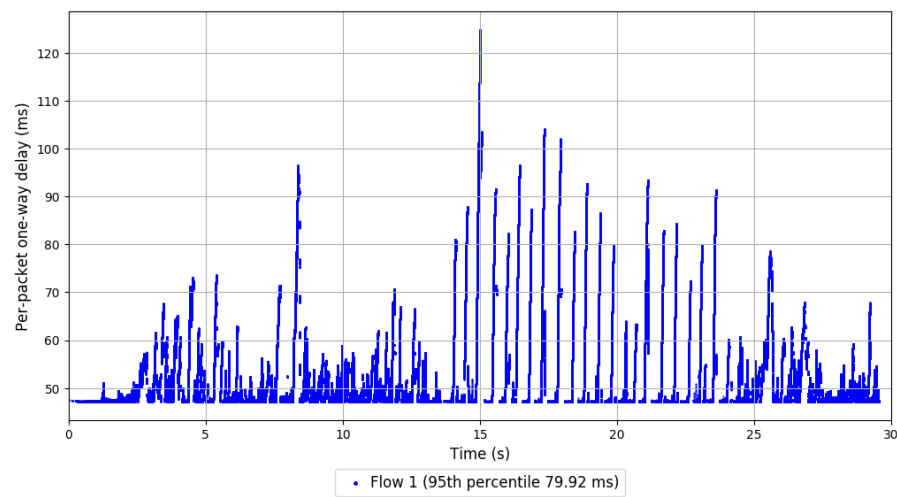
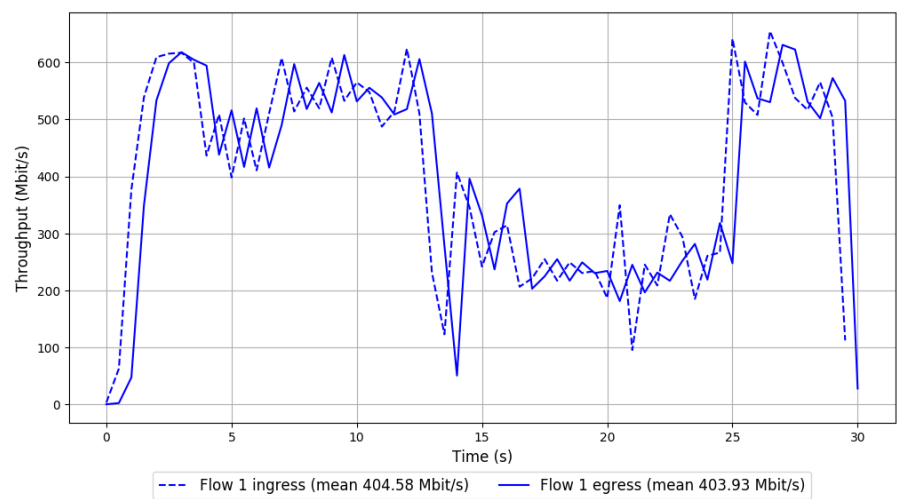


Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-09-19 00:40:18
End at: 2019-09-19 00:40:48
Local clock offset: -0.2 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2019-09-19 03:04:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 403.93 Mbit/s
95th percentile per-packet one-way delay: 79.915 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 403.93 Mbit/s
95th percentile per-packet one-way delay: 79.915 ms
Loss rate: 0.49%

Run 4: Report of Muses_DecisionTreeH0 — Data Link



Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-09-19 01:14:05

End at: 2019-09-19 01:14:35

Local clock offset: -0.581 ms

Remote clock offset: 0.029 ms

Below is generated by plot.py at 2019-09-19 03:04:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 348.90 Mbit/s

95th percentile per-packet one-way delay: 89.525 ms

Loss rate: 0.54%

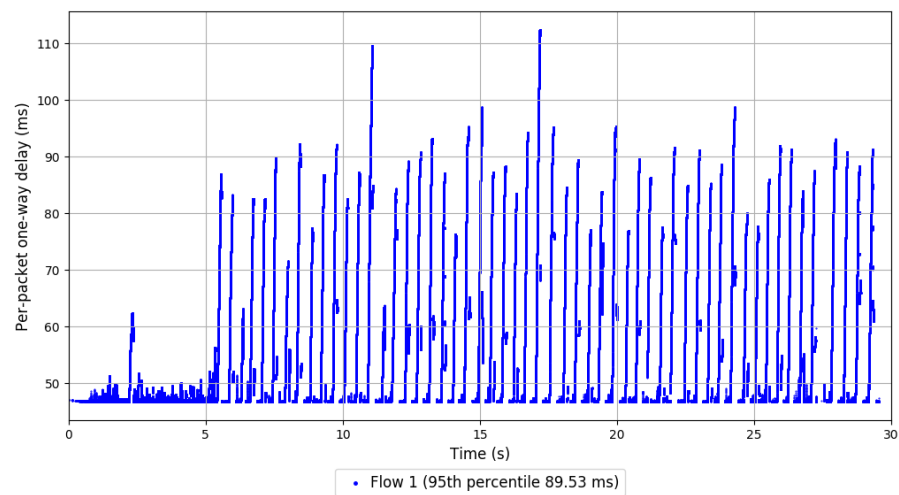
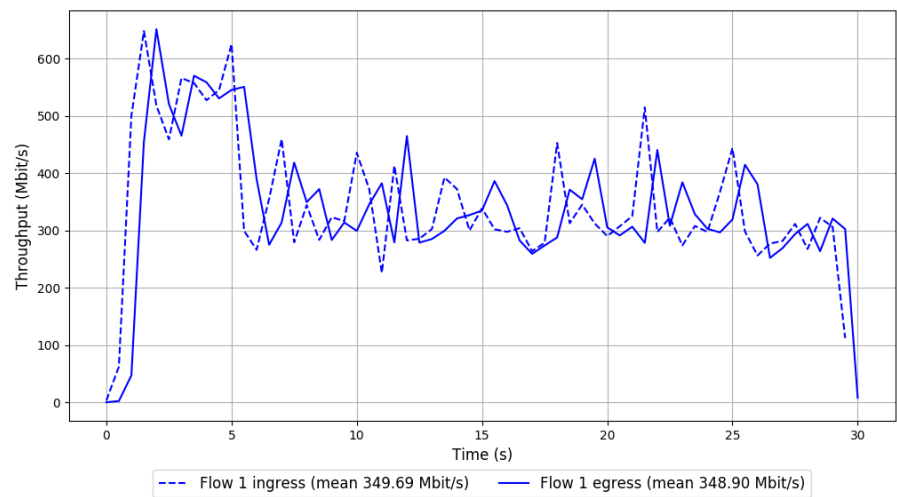
-- Flow 1:

Average throughput: 348.90 Mbit/s

95th percentile per-packet one-way delay: 89.525 ms

Loss rate: 0.54%

Run 5: Report of Muses_DecisionTreeH0 — Data Link

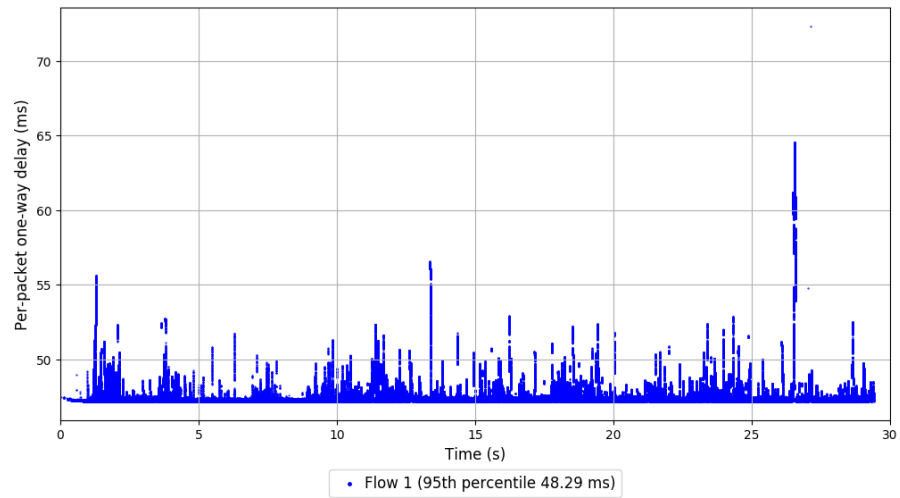
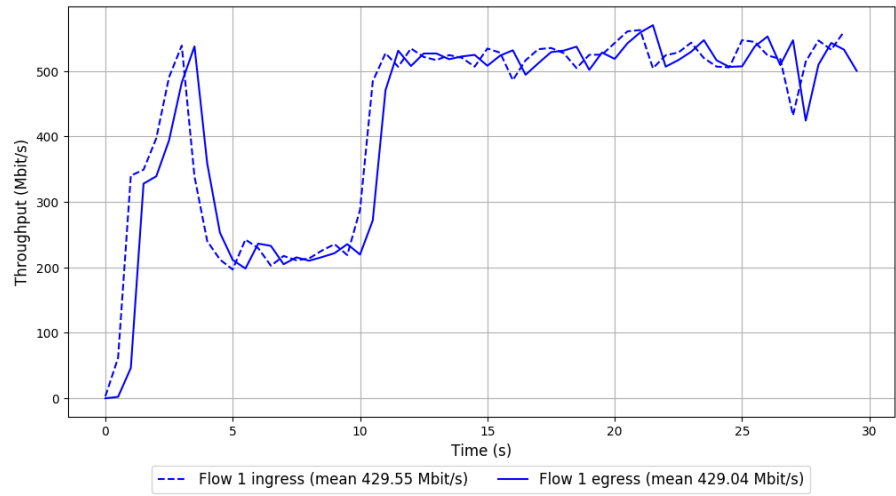


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-09-18 23:23:56
End at: 2019-09-18 23:24:26
Local clock offset: -0.132 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2019-09-19 03:05:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 429.04 Mbit/s
95th percentile per-packet one-way delay: 48.291 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 429.04 Mbit/s
95th percentile per-packet one-way delay: 48.291 ms
Loss rate: 0.44%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link

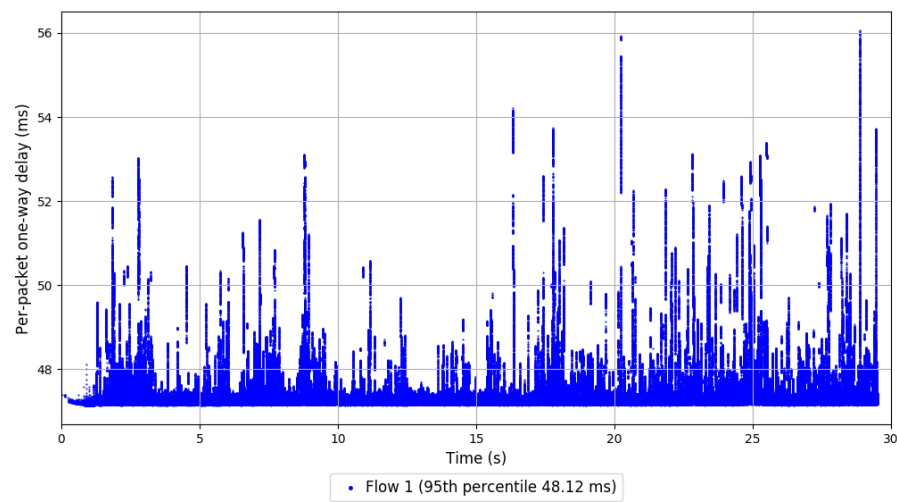
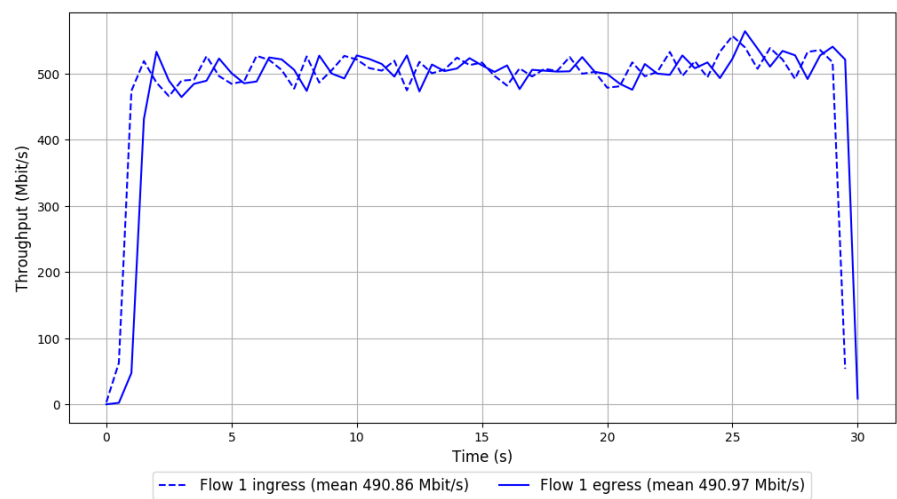


Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-09-18 23:57:31
End at: 2019-09-18 23:58:01
Local clock offset: -0.12 ms
Remote clock offset: -0.074 ms

Below is generated by plot.py at 2019-09-19 03:07:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 490.97 Mbit/s
95th percentile per-packet one-way delay: 48.115 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 490.97 Mbit/s
95th percentile per-packet one-way delay: 48.115 ms
Loss rate: 0.30%

Run 2: Report of Muses_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-09-19 00:30:52

End at: 2019-09-19 00:31:22

Local clock offset: -0.16 ms

Remote clock offset: -0.07 ms

Below is generated by plot.py at 2019-09-19 03:07:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 473.31 Mbit/s

95th percentile per-packet one-way delay: 46.946 ms

Loss rate: 0.31%

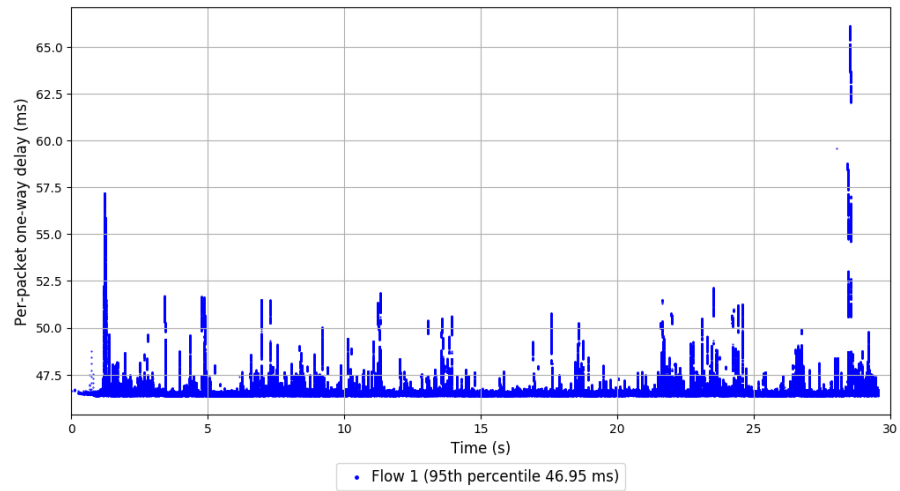
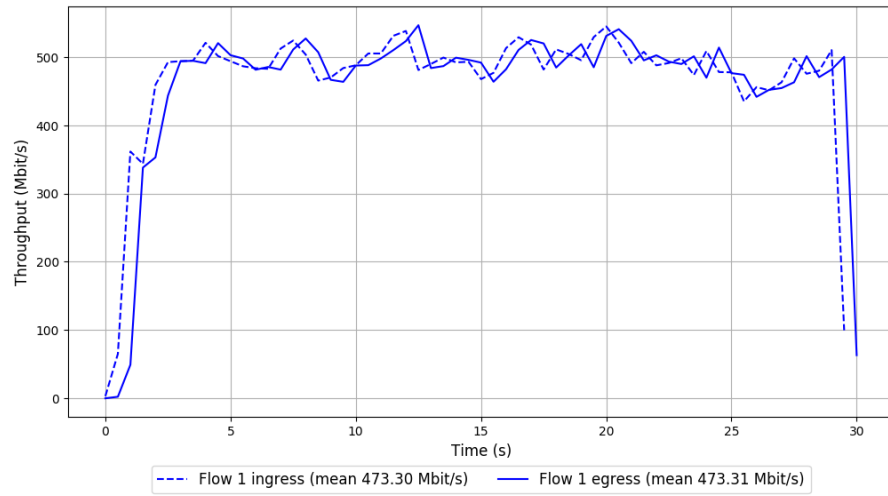
-- Flow 1:

Average throughput: 473.31 Mbit/s

95th percentile per-packet one-way delay: 46.946 ms

Loss rate: 0.31%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-09-19 01:04:31

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

Local clock offset: -0.217 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2019-09-19 03:08:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 510.21 Mbit/s

95th percentile per-packet one-way delay: 48.835 ms

Loss rate: 0.36%

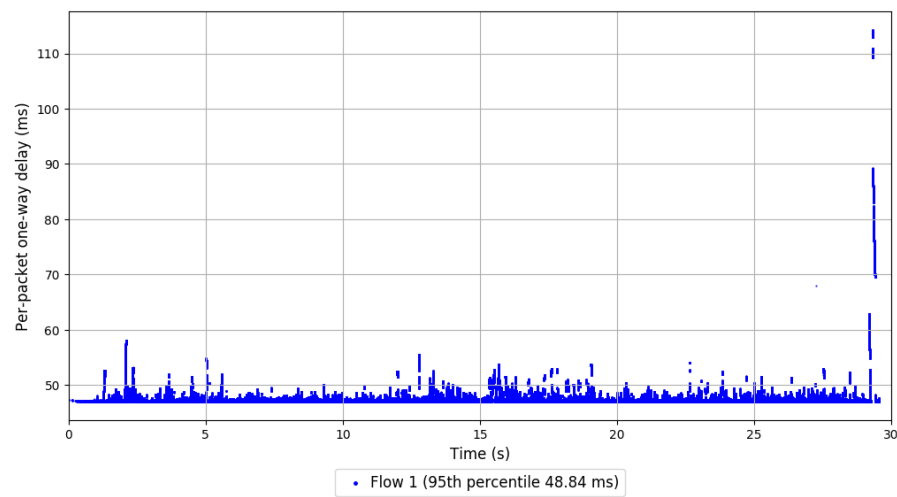
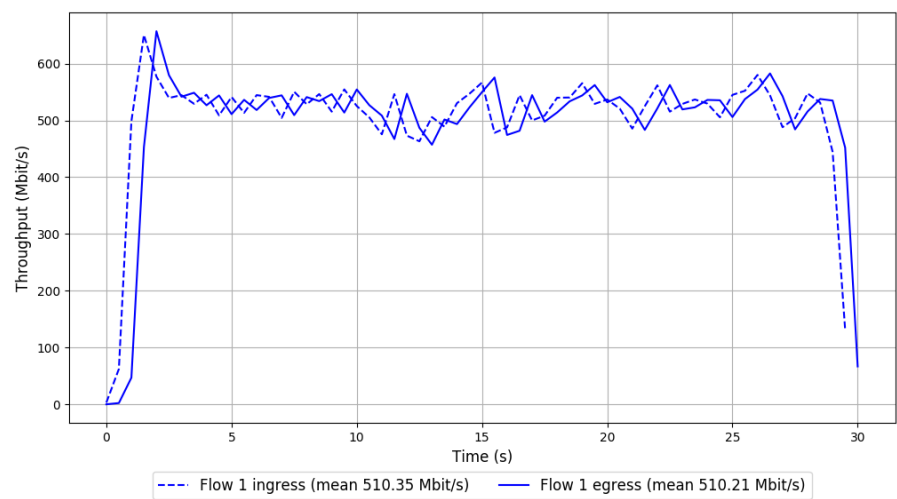
-- Flow 1:

Average throughput: 510.21 Mbit/s

95th percentile per-packet one-way delay: 48.835 ms

Loss rate: 0.36%

Run 4: Report of Muses_DecisionTreeR0 — Data Link

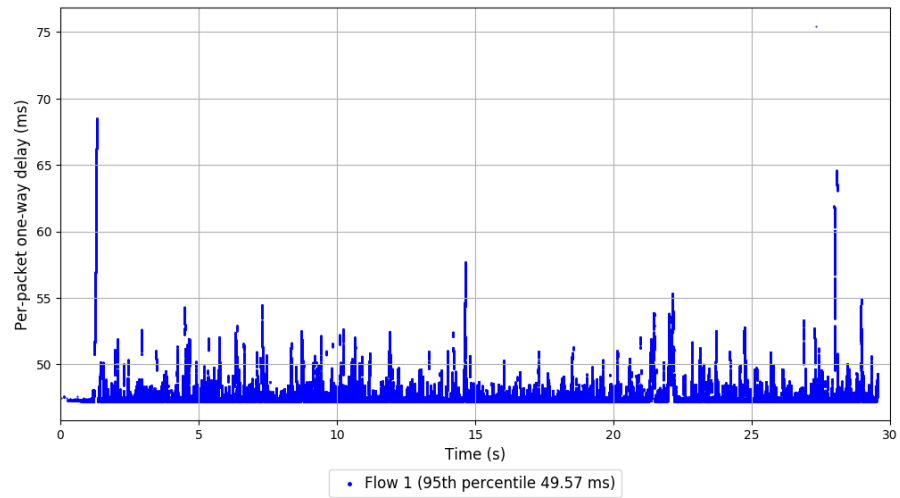
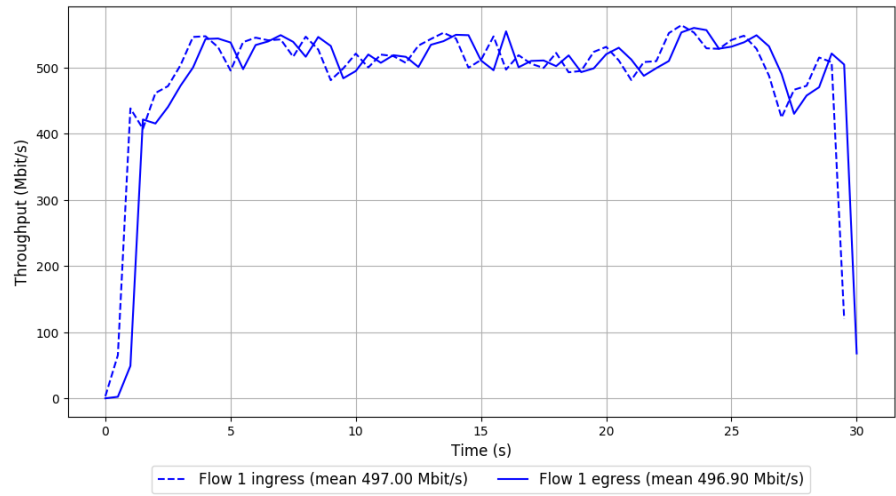


```
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2019-09-19 01:38:44
End at: 2019-09-19 01:39:14
Local clock offset: -0.149 ms
Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2019-09-19 03:09:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 496.90 Mbit/s
95th percentile per-packet one-way delay: 49.574 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 496.90 Mbit/s
95th percentile per-packet one-way delay: 49.574 ms
Loss rate: 0.34%
```

Run 5: Report of Muses_DecisionTreeR0 — Data Link

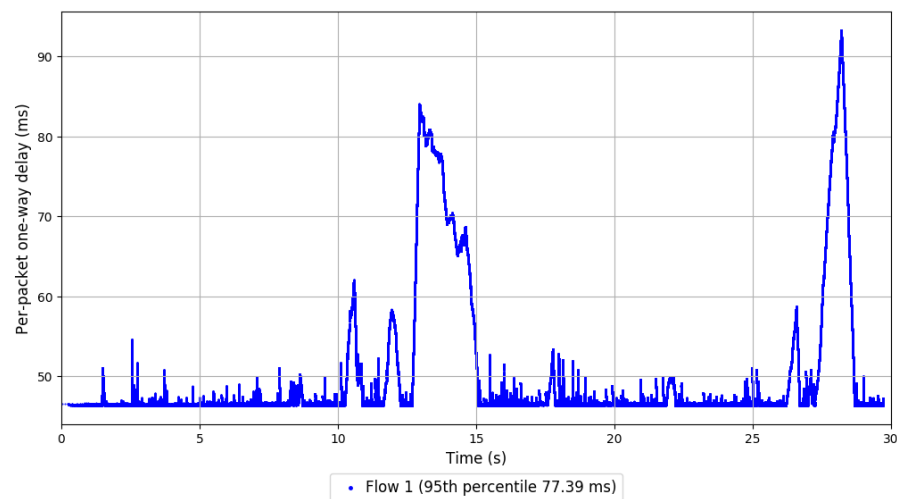
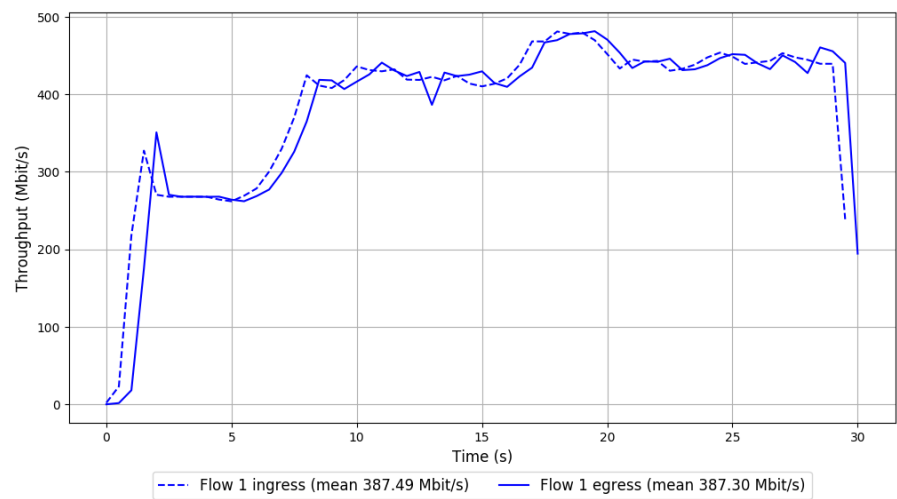


Run 1: Statistics of PCC-Allegro

Start at: 2019-09-18 23:11:01
End at: 2019-09-18 23:11:31
Local clock offset: -0.115 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2019-09-19 03:13:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 387.30 Mbit/s
95th percentile per-packet one-way delay: 77.395 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 387.30 Mbit/s
95th percentile per-packet one-way delay: 77.395 ms
Loss rate: 0.37%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-09-18 23:44:32

End at: 2019-09-18 23:45:02

Local clock offset: -0.147 ms

Remote clock offset: -0.074 ms

Below is generated by plot.py at 2019-09-19 03:18:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 387.40 Mbit/s

95th percentile per-packet one-way delay: 132.895 ms

Loss rate: 0.85%

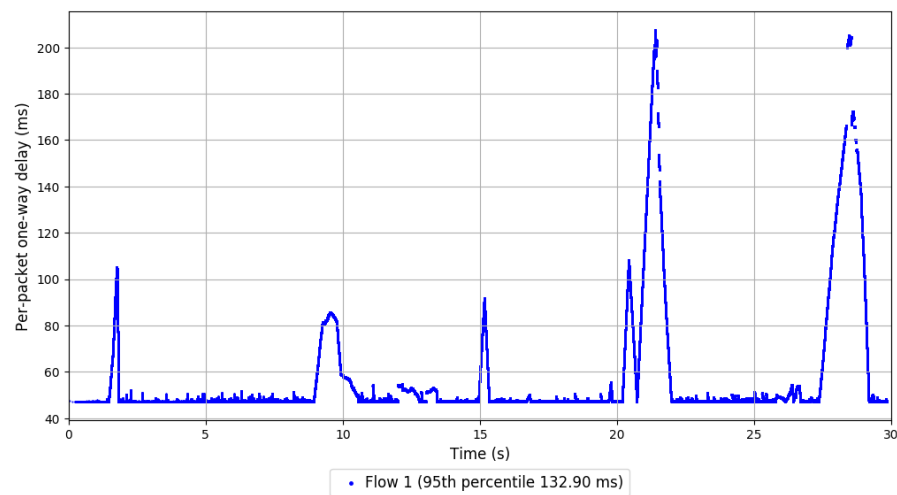
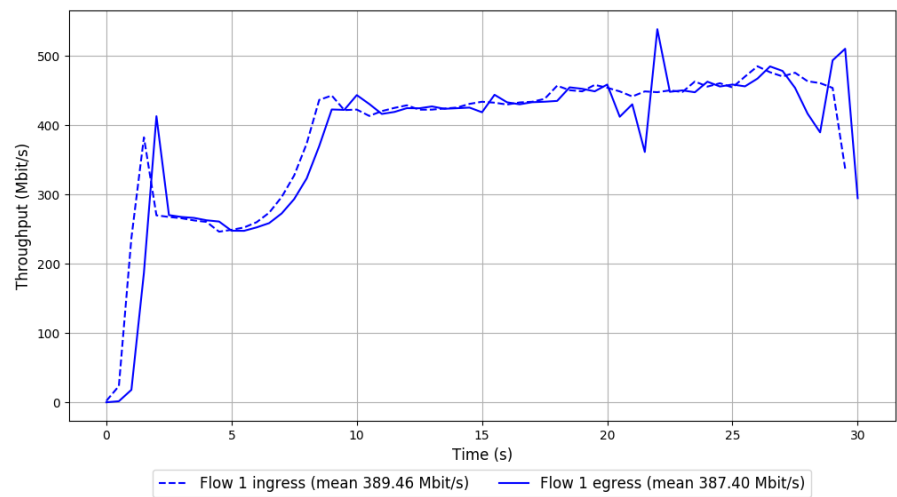
-- Flow 1:

Average throughput: 387.40 Mbit/s

95th percentile per-packet one-way delay: 132.895 ms

Loss rate: 0.85%

Run 2: Report of PCC-Allegro — Data Link

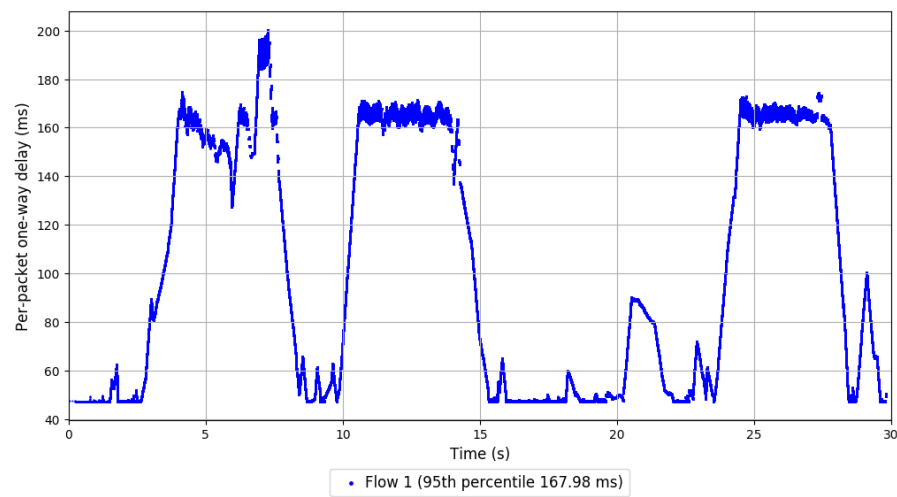
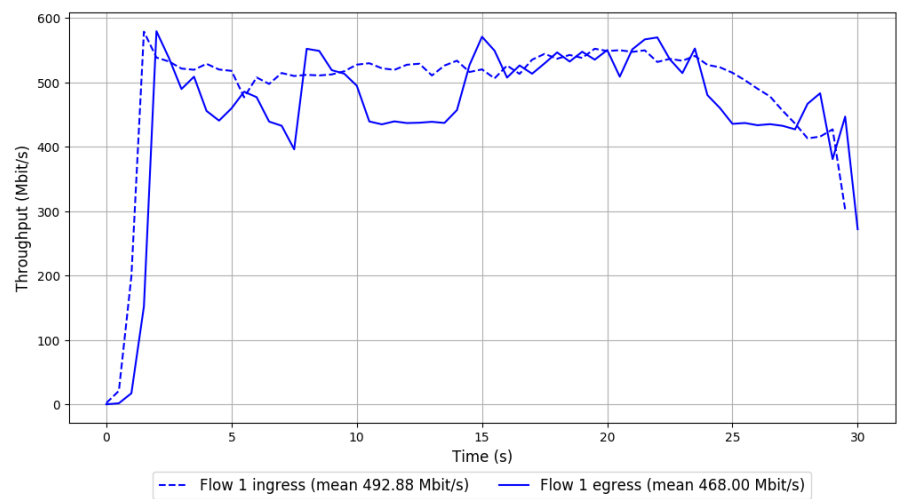


Run 3: Statistics of PCC-Allegro

Start at: 2019-09-19 00:17:57
End at: 2019-09-19 00:18:27
Local clock offset: -0.133 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2019-09-19 03:22:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 468.00 Mbit/s
95th percentile per-packet one-way delay: 167.979 ms
Loss rate: 5.35%
-- Flow 1:
Average throughput: 468.00 Mbit/s
95th percentile per-packet one-way delay: 167.979 ms
Loss rate: 5.35%

Run 3: Report of PCC-Allegro — Data Link

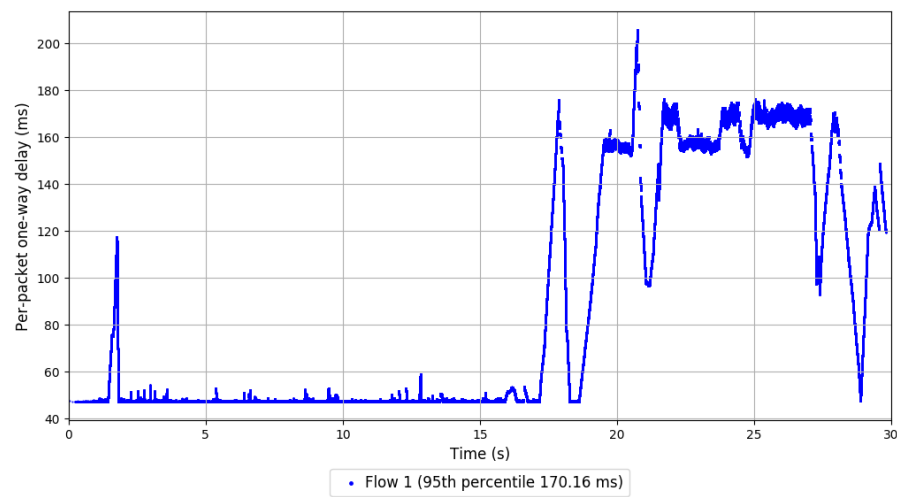
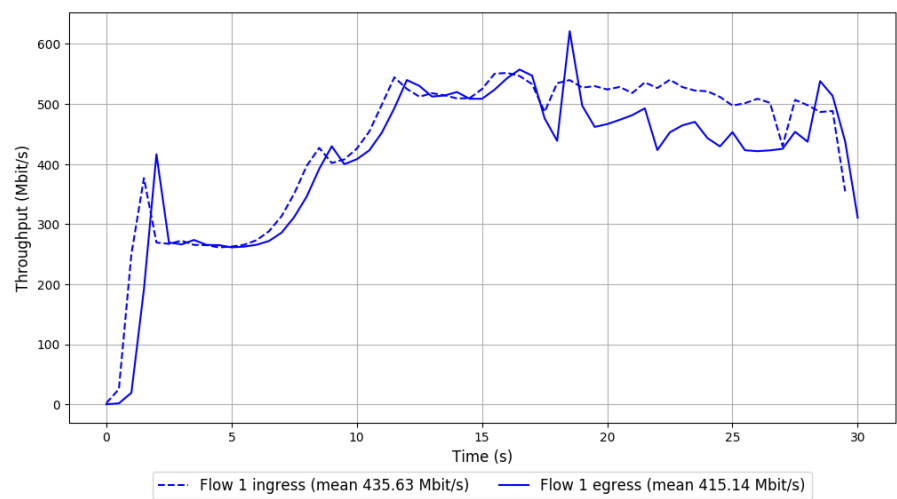


Run 4: Statistics of PCC-Allegro

Start at: 2019-09-19 00:51:29
End at: 2019-09-19 00:51:59
Local clock offset: -0.201 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2019-09-19 03:22:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 415.14 Mbit/s
95th percentile per-packet one-way delay: 170.164 ms
Loss rate: 5.02%
-- Flow 1:
Average throughput: 415.14 Mbit/s
95th percentile per-packet one-way delay: 170.164 ms
Loss rate: 5.02%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-09-19 01:25:42

End at: 2019-09-19 01:26:12

Local clock offset: -0.564 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2019-09-19 03:22:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 379.91 Mbit/s

95th percentile per-packet one-way delay: 158.061 ms

Loss rate: 0.88%

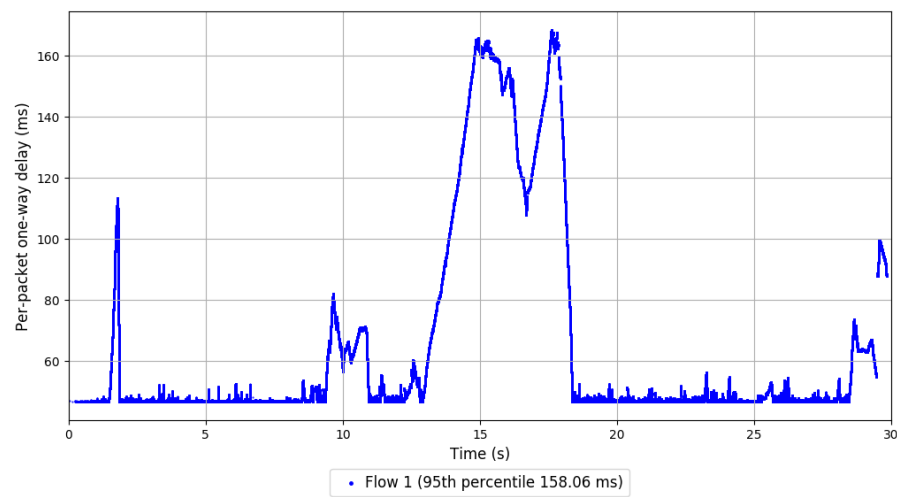
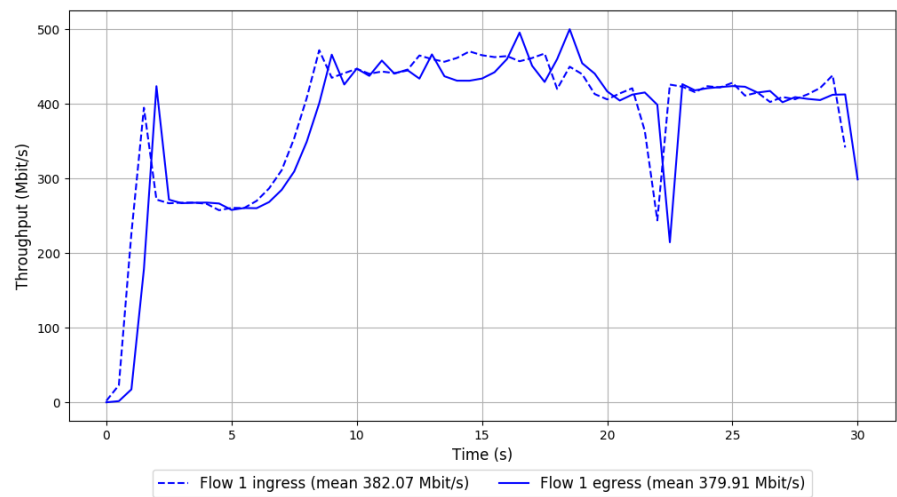
-- Flow 1:

Average throughput: 379.91 Mbit/s

95th percentile per-packet one-way delay: 158.061 ms

Loss rate: 0.88%

Run 5: Report of PCC-Allegro — Data Link

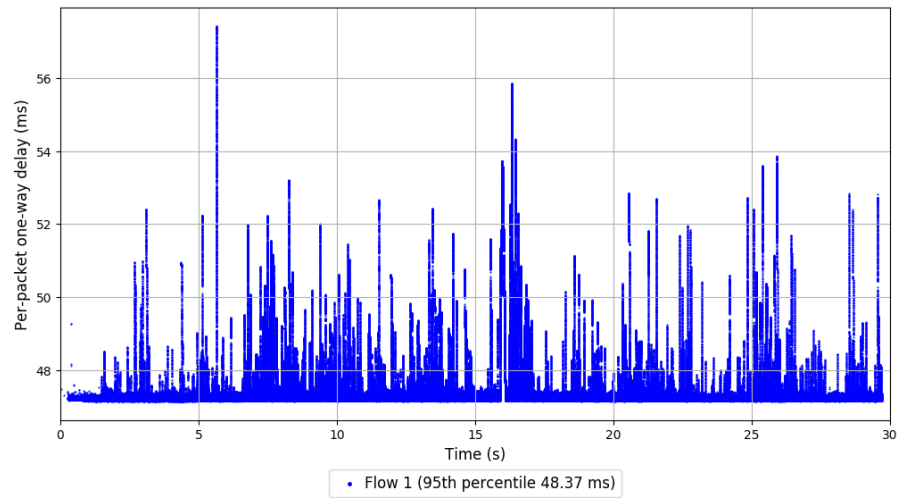
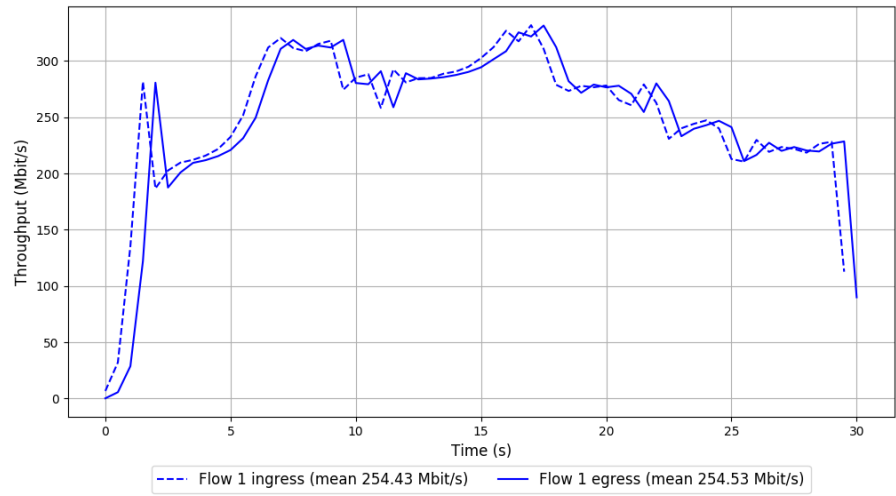


Run 1: Statistics of PCC-Expr

Start at: 2019-09-18 23:08:07
End at: 2019-09-18 23:08:37
Local clock offset: -0.134 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2019-09-19 03:22:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 254.53 Mbit/s
95th percentile per-packet one-way delay: 48.365 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 254.53 Mbit/s
95th percentile per-packet one-way delay: 48.365 ms
Loss rate: 0.28%

Run 1: Report of PCC-Expr — Data Link

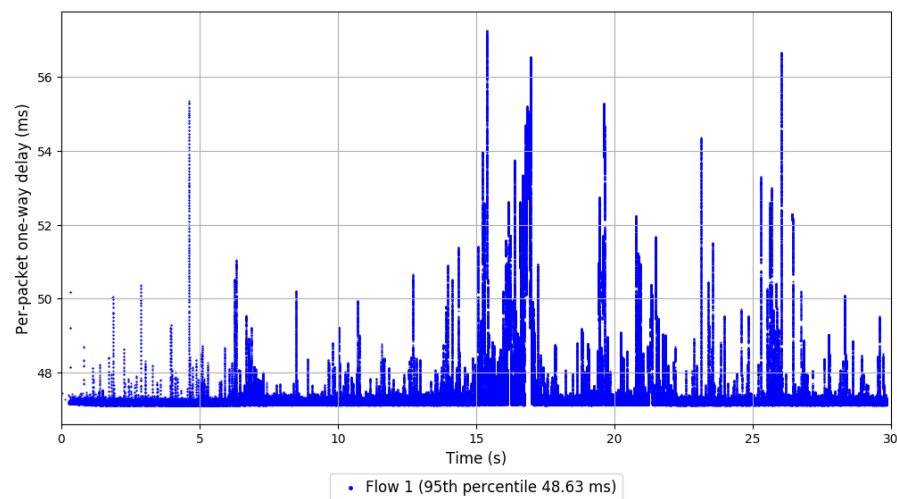
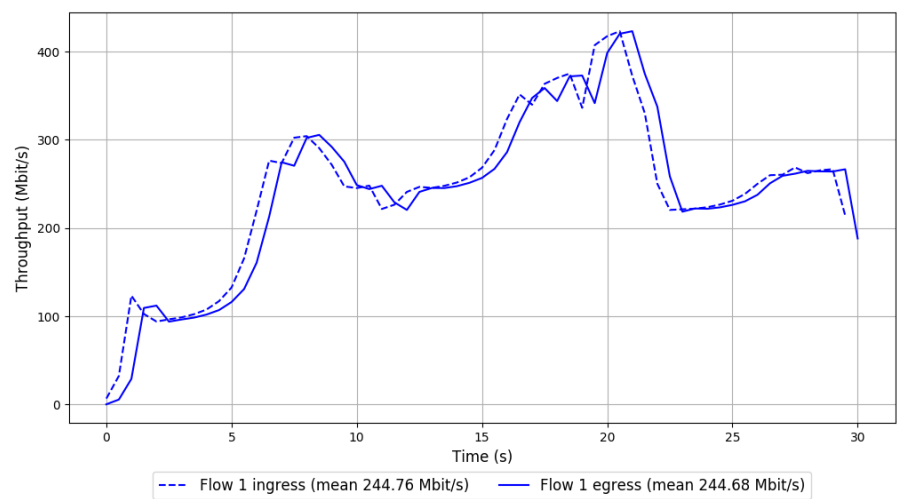


Run 2: Statistics of PCC-Expr

Start at: 2019-09-18 23:41:37
End at: 2019-09-18 23:42:07
Local clock offset: -0.147 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2019-09-19 03:22:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 244.68 Mbit/s
95th percentile per-packet one-way delay: 48.628 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 244.68 Mbit/s
95th percentile per-packet one-way delay: 48.628 ms
Loss rate: 0.35%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-09-19 00:15:00

End at: 2019-09-19 00:15:30

Local clock offset: -0.128 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2019-09-19 03:22:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 267.02 Mbit/s

95th percentile per-packet one-way delay: 48.842 ms

Loss rate: 0.25%

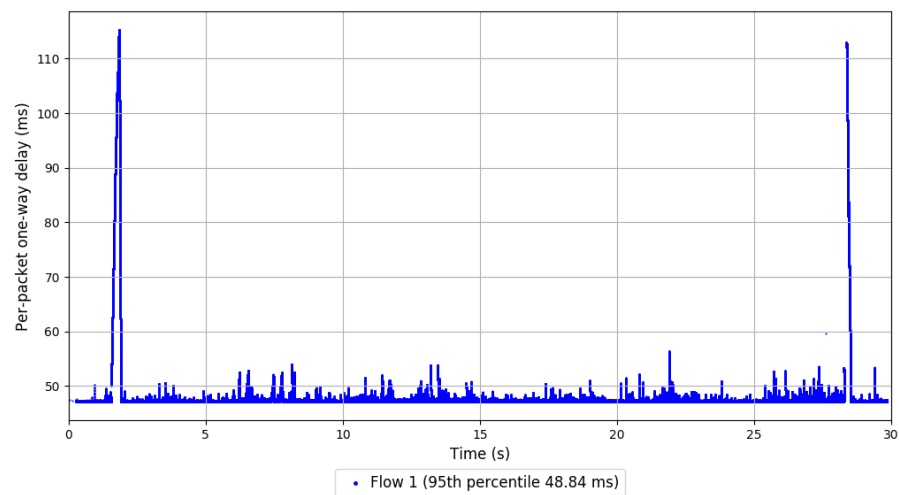
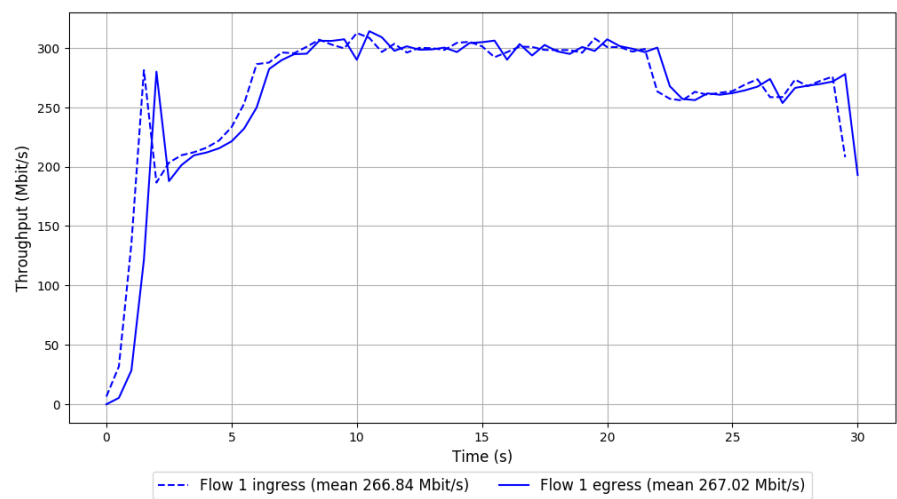
-- Flow 1:

Average throughput: 267.02 Mbit/s

95th percentile per-packet one-way delay: 48.842 ms

Loss rate: 0.25%

Run 3: Report of PCC-Expr — Data Link

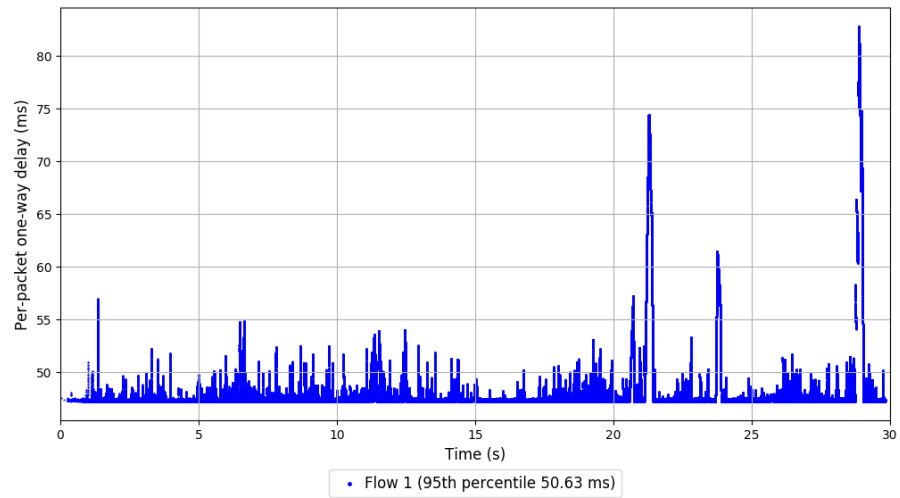
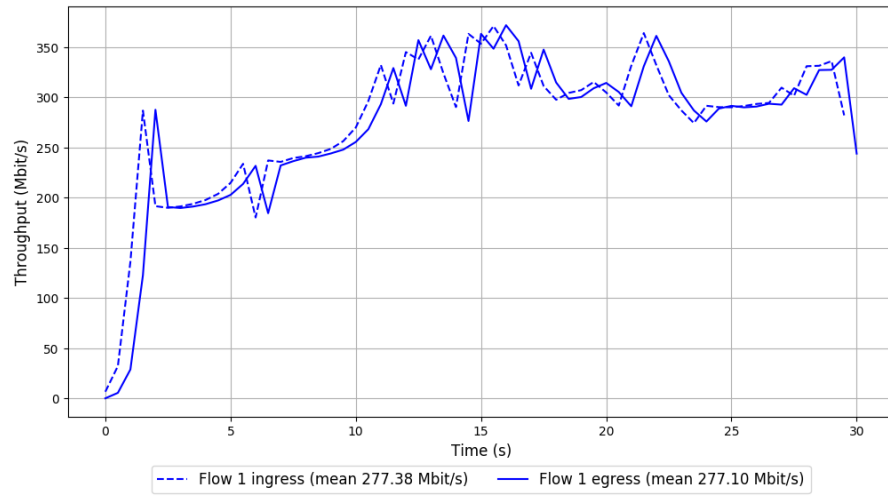


Run 4: Statistics of PCC-Expr

Start at: 2019-09-19 00:48:29
End at: 2019-09-19 00:48:59
Local clock offset: -0.194 ms
Remote clock offset: -0.001 ms

Below is generated by plot.py at 2019-09-19 03:24:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 277.10 Mbit/s
95th percentile per-packet one-way delay: 50.628 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 277.10 Mbit/s
95th percentile per-packet one-way delay: 50.628 ms
Loss rate: 0.43%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-09-19 01:22:07

End at: 2019-09-19 01:22:37

Local clock offset: -0.185 ms

Remote clock offset: 0.023 ms

Below is generated by plot.py at 2019-09-19 03:25:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 286.27 Mbit/s

95th percentile per-packet one-way delay: 49.759 ms

Loss rate: 0.29%

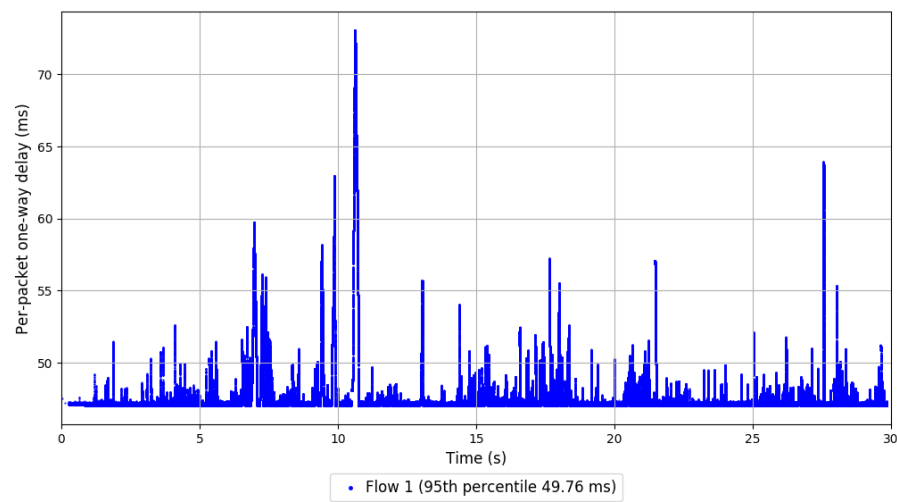
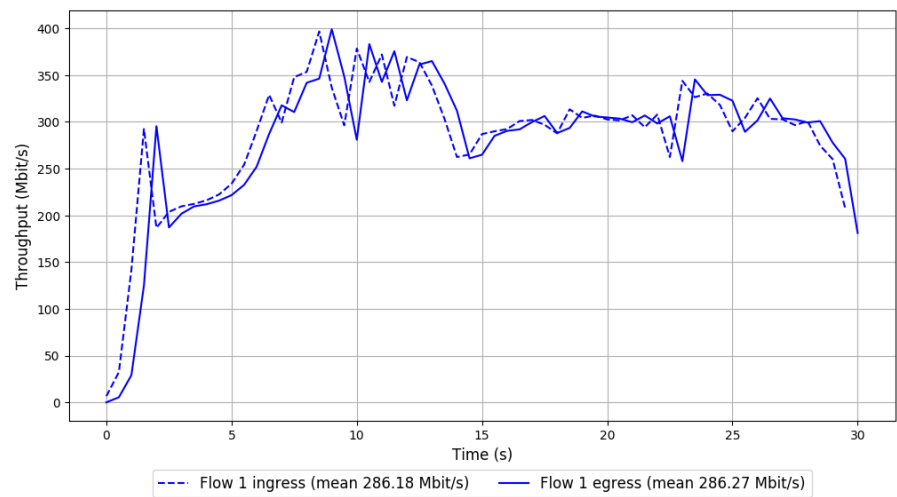
-- Flow 1:

Average throughput: 286.27 Mbit/s

95th percentile per-packet one-way delay: 49.759 ms

Loss rate: 0.29%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

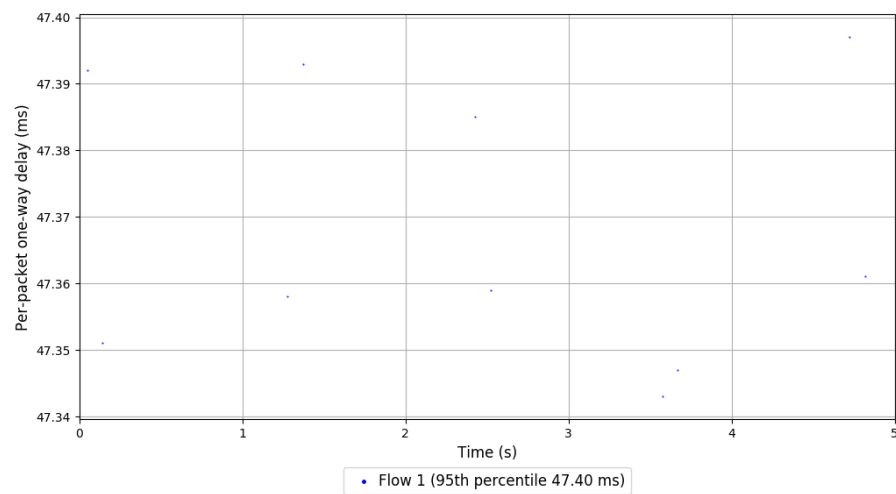
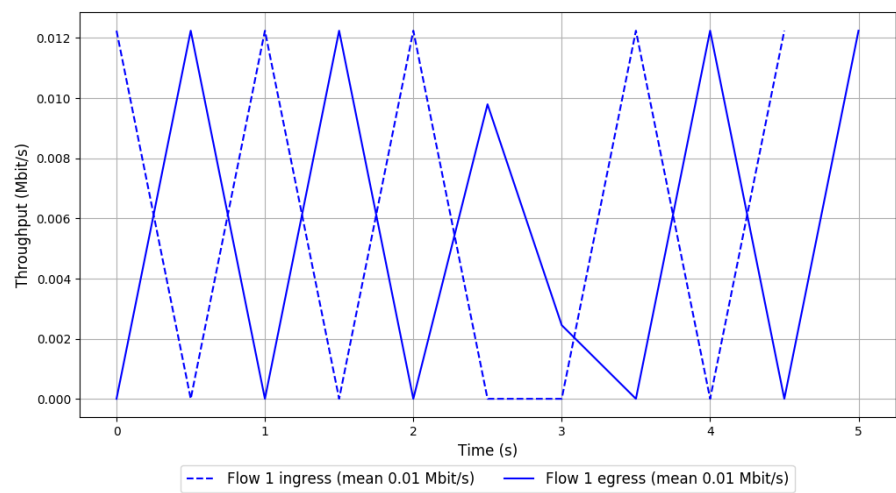
Start at: 2019-09-18 22:53:21

End at: 2019-09-18 22:53:51

Local clock offset: -0.17 ms

Remote clock offset: -0.048 ms

Run 1: Report of QUIC Cubic — Data Link

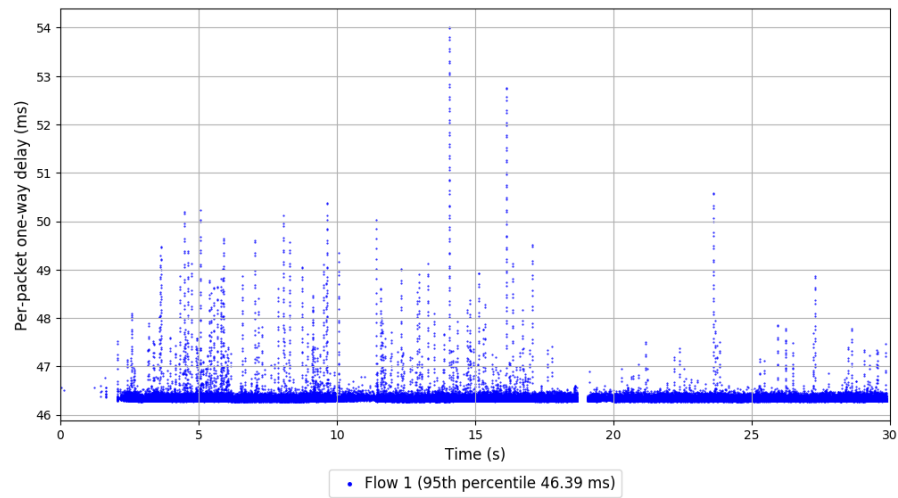
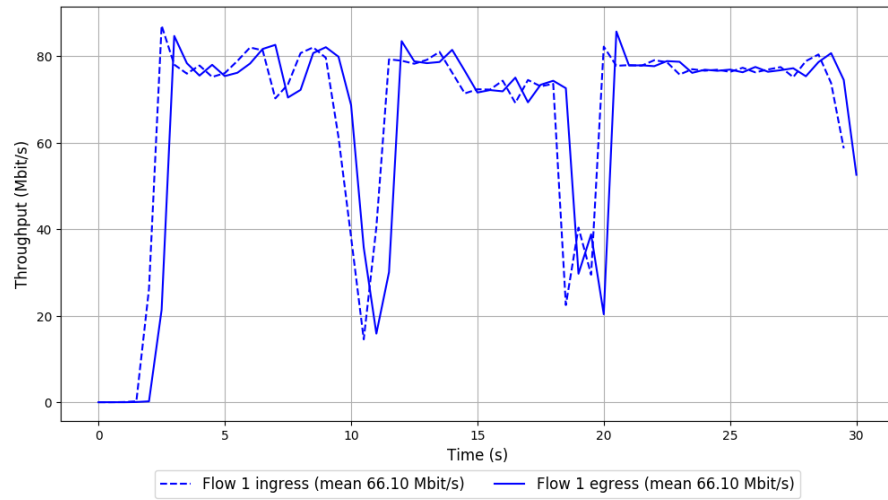


Run 2: Statistics of QUIC Cubic

Start at: 2019-09-18 23:26:31
End at: 2019-09-18 23:27:01
Local clock offset: -0.122 ms
Remote clock offset: -0.004 ms

Below is generated by plot.py at 2019-09-19 03:25:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 66.10 Mbit/s
95th percentile per-packet one-way delay: 46.391 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 66.10 Mbit/s
95th percentile per-packet one-way delay: 46.391 ms
Loss rate: 0.32%

Run 2: Report of QUIC Cubic — Data Link

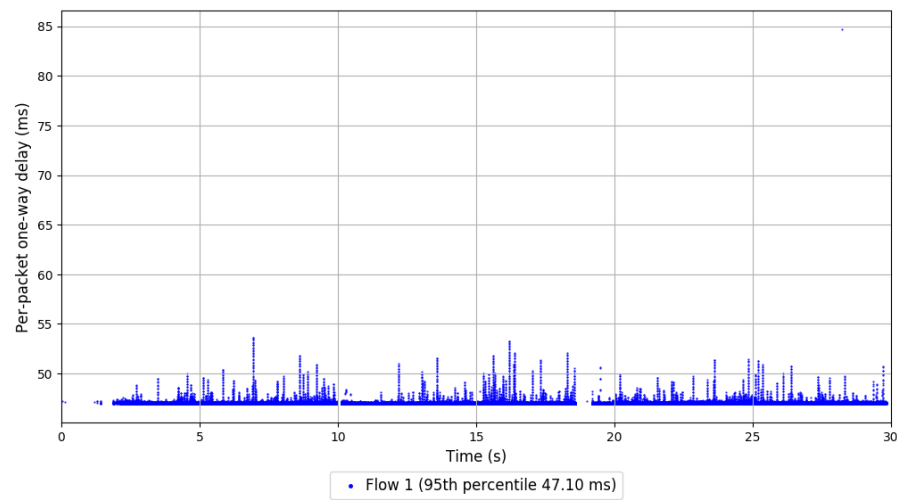
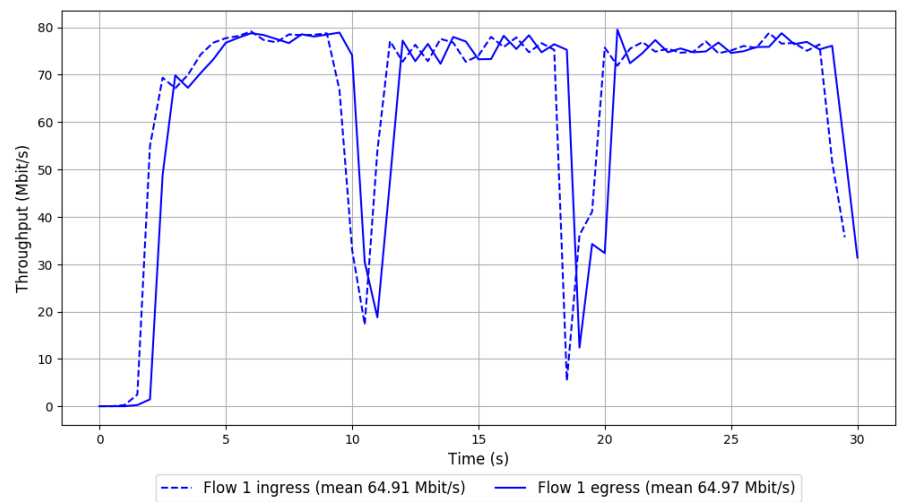


Run 3: Statistics of QUIC Cubic

Start at: 2019-09-19 00:00:09
End at: 2019-09-19 00:00:39
Local clock offset: -0.161 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2019-09-19 03:25:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 64.97 Mbit/s
95th percentile per-packet one-way delay: 47.096 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 64.97 Mbit/s
95th percentile per-packet one-way delay: 47.096 ms
Loss rate: 0.23%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-09-19 00:33:28

End at: 2019-09-19 00:33:58

Local clock offset: -0.568 ms

Remote clock offset: -0.072 ms

Below is generated by plot.py at 2019-09-19 03:25:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.89 Mbit/s

95th percentile per-packet one-way delay: 46.961 ms

Loss rate: 0.37%

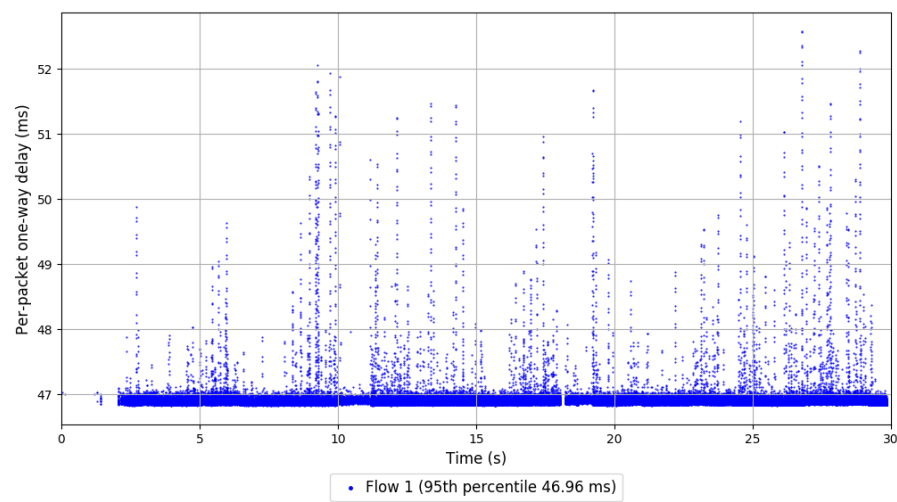
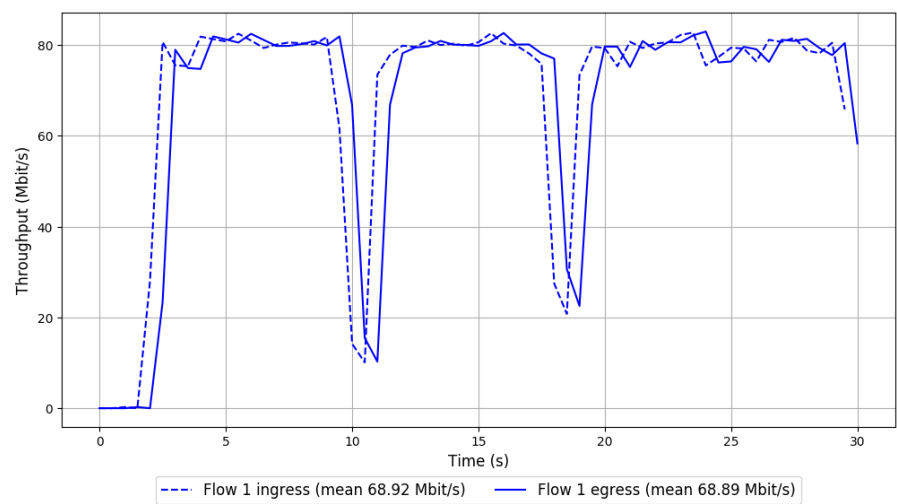
-- Flow 1:

Average throughput: 68.89 Mbit/s

95th percentile per-packet one-way delay: 46.961 ms

Loss rate: 0.37%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-09-19 01:07:12

End at: 2019-09-19 01:07:42

Local clock offset: -0.166 ms

Remote clock offset: -0.015 ms

Below is generated by plot.py at 2019-09-19 03:25:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.74 Mbit/s

95th percentile per-packet one-way delay: 47.367 ms

Loss rate: 0.35%

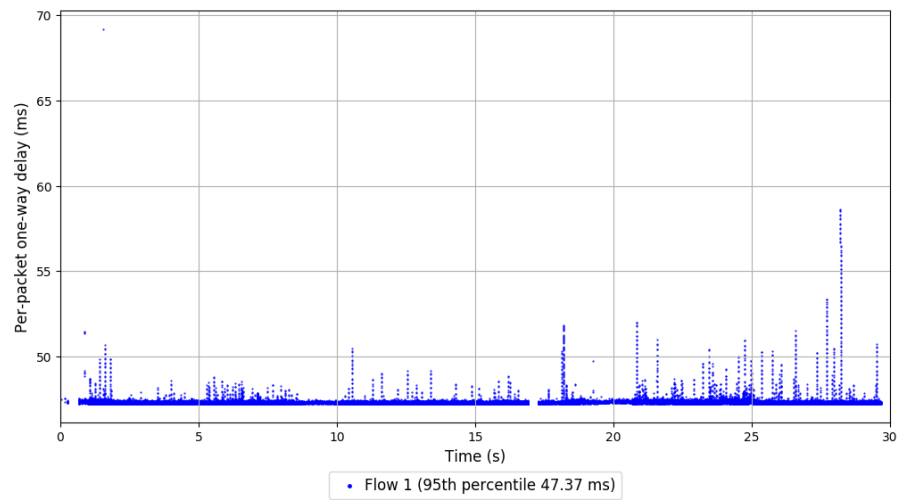
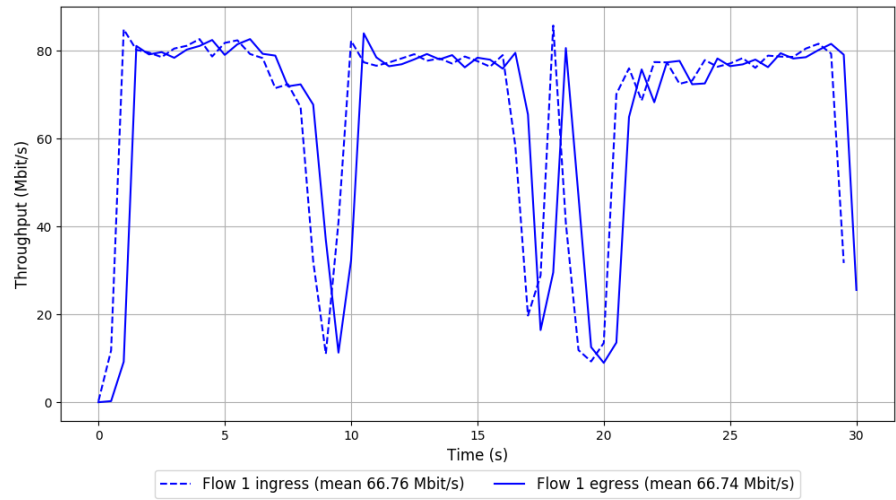
-- Flow 1:

Average throughput: 66.74 Mbit/s

95th percentile per-packet one-way delay: 47.367 ms

Loss rate: 0.35%

Run 5: Report of QUIC Cubic — Data Link

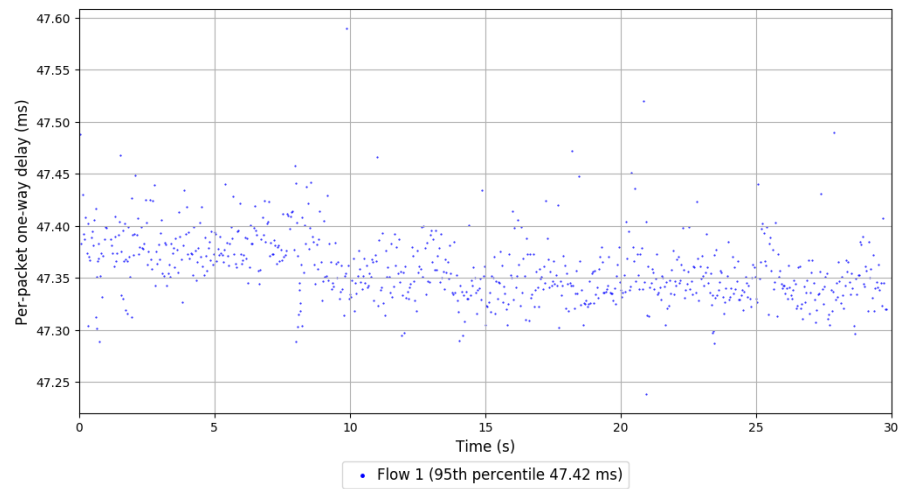
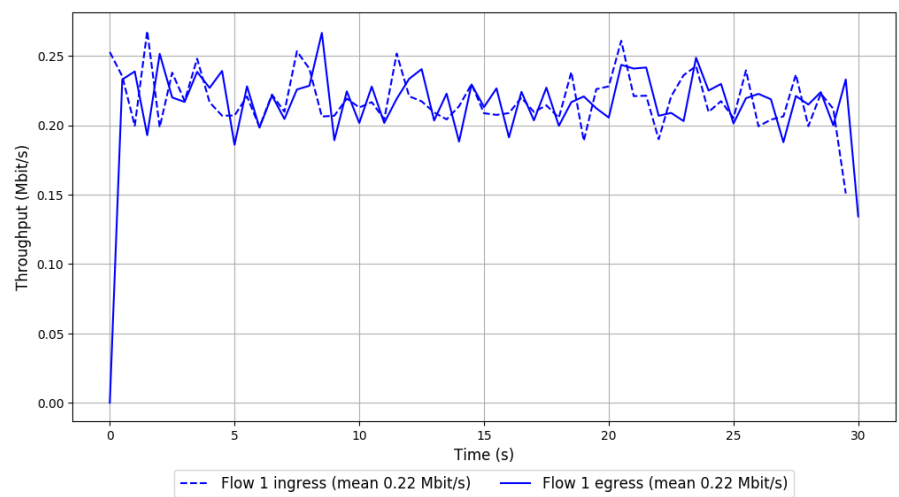


```
Run 1: Statistics of SCReAM

Start at: 2019-09-18 22:52:13
End at: 2019-09-18 22:52:43
Local clock offset: -0.175 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2019-09-19 03:25:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.417 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.417 ms
Loss rate: 0.25%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2019-09-18 23:25:24

End at: 2019-09-18 23:25:54

Local clock offset: -0.148 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2019-09-19 03:25:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.264 ms

Loss rate: 0.38%

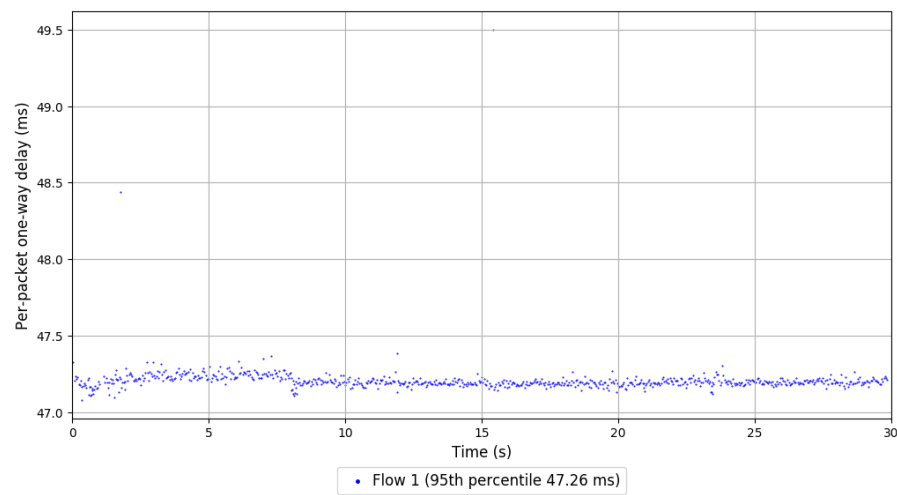
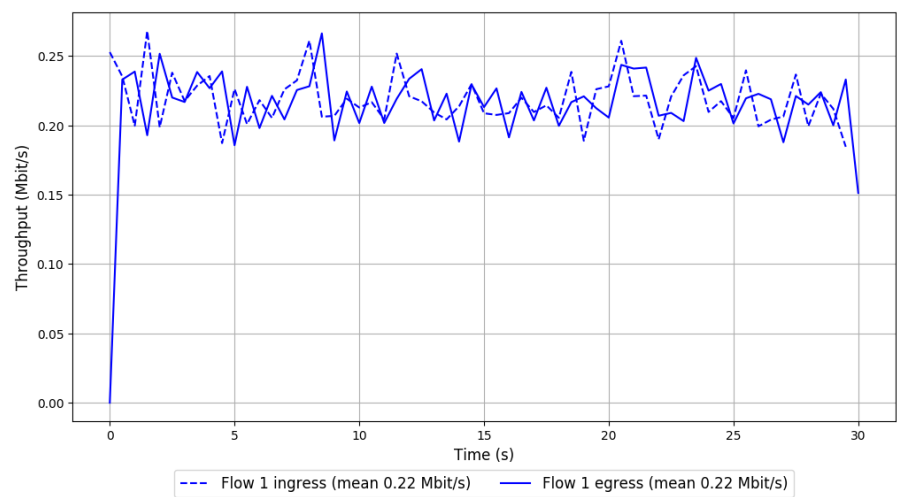
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.264 ms

Loss rate: 0.38%

Run 2: Report of SReAM — Data Link

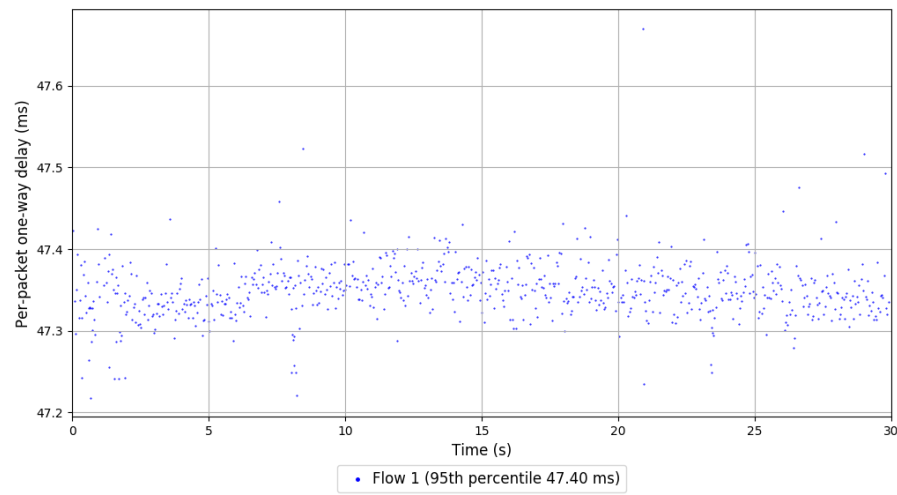
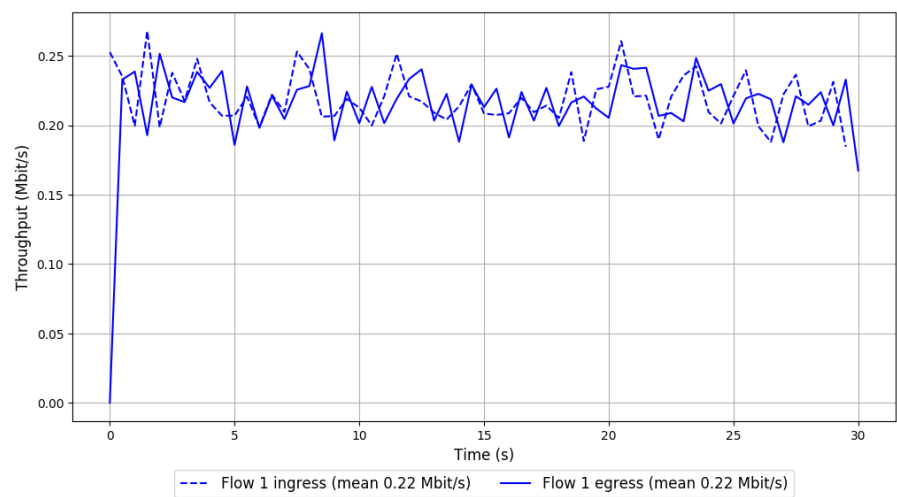


Run 3: Statistics of SCReAM

Start at: 2019-09-18 23:59:02
End at: 2019-09-18 23:59:32
Local clock offset: -0.114 ms
Remote clock offset: -0.048 ms

Below is generated by plot.py at 2019-09-19 03:25:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.400 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.400 ms
Loss rate: 0.26%

Run 3: Report of SReAM — Data Link

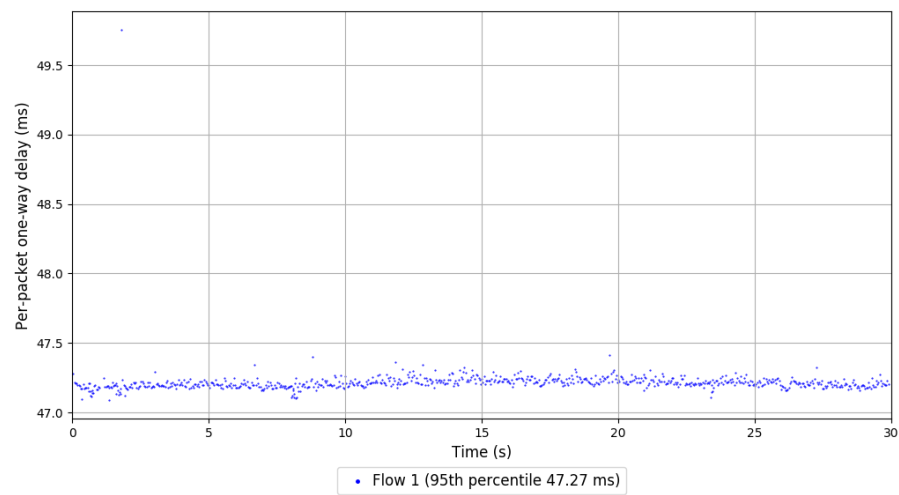
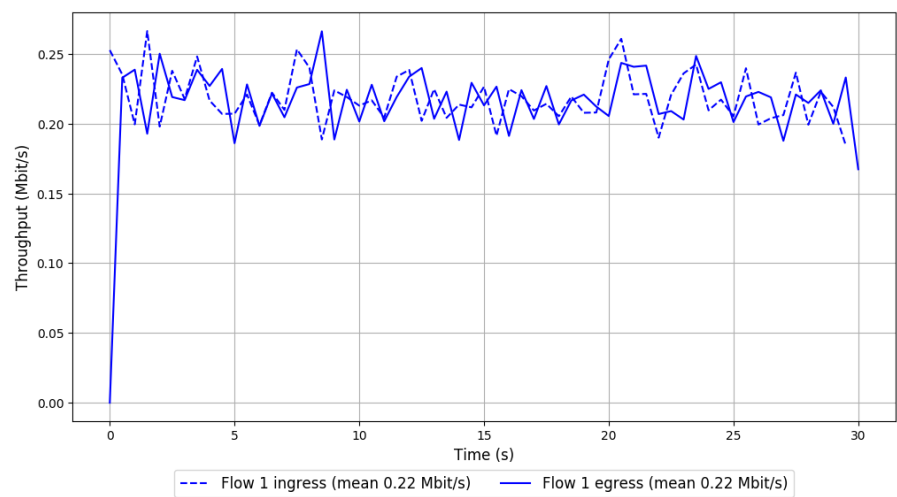


Run 4: Statistics of SCReAM

Start at: 2019-09-19 00:32:21
End at: 2019-09-19 00:32:51
Local clock offset: -0.197 ms
Remote clock offset: -0.065 ms

Below is generated by plot.py at 2019-09-19 03:25:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.273 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.273 ms
Loss rate: 0.26%

Run 4: Report of SReAM — Data Link

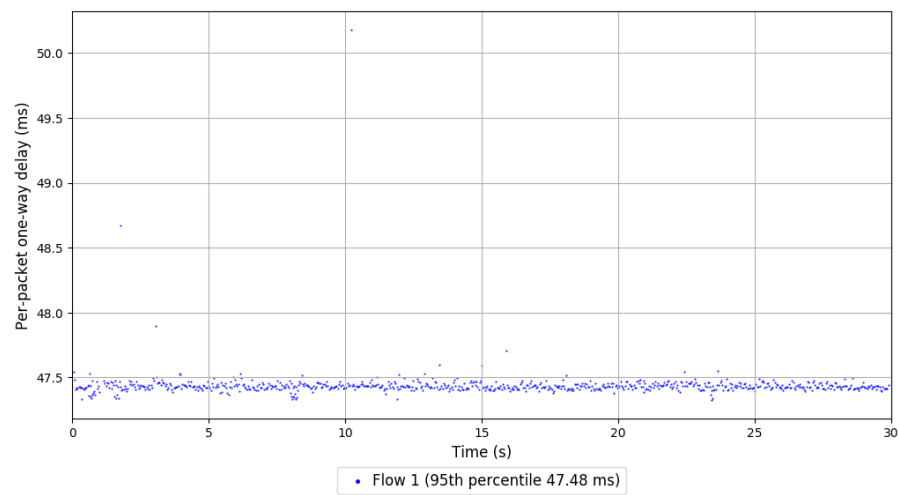
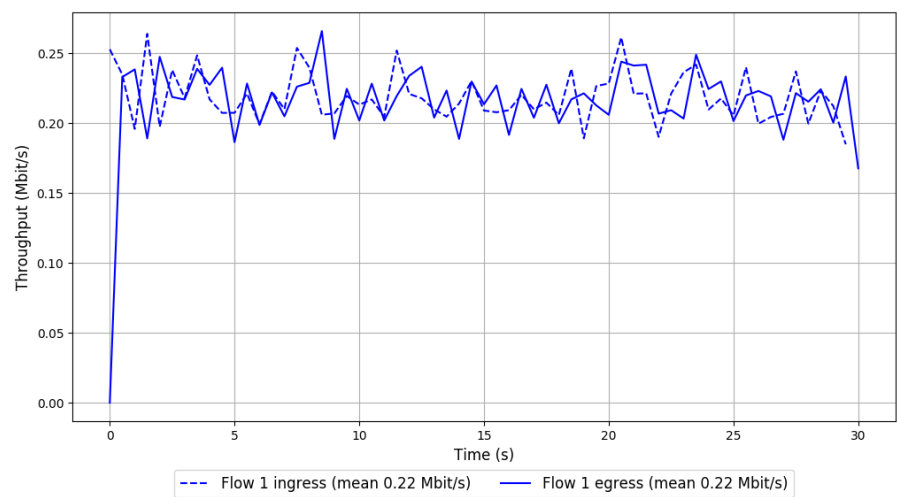


Run 5: Statistics of SCReAM

Start at: 2019-09-19 01:06:05
End at: 2019-09-19 01:06:35
Local clock offset: -0.181 ms
Remote clock offset: -0.004 ms

Below is generated by plot.py at 2019-09-19 03:25:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.481 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.481 ms
Loss rate: 0.26%

Run 5: Report of SReAM — Data Link

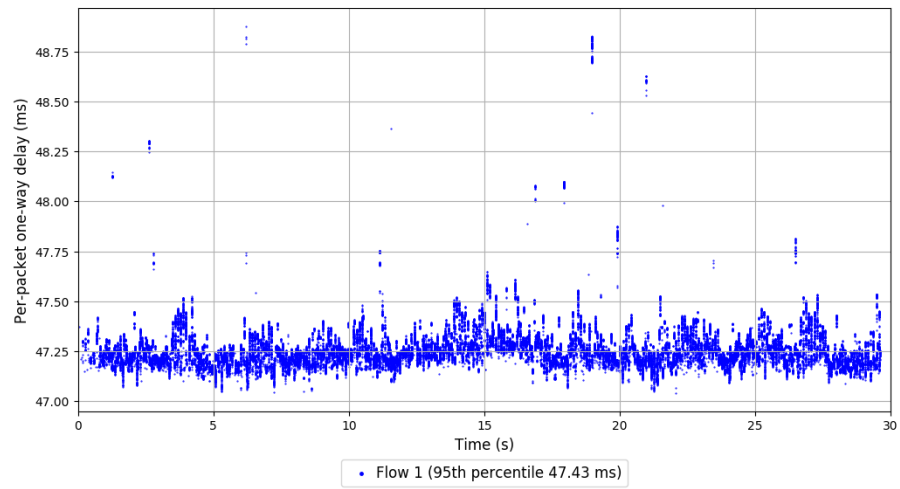
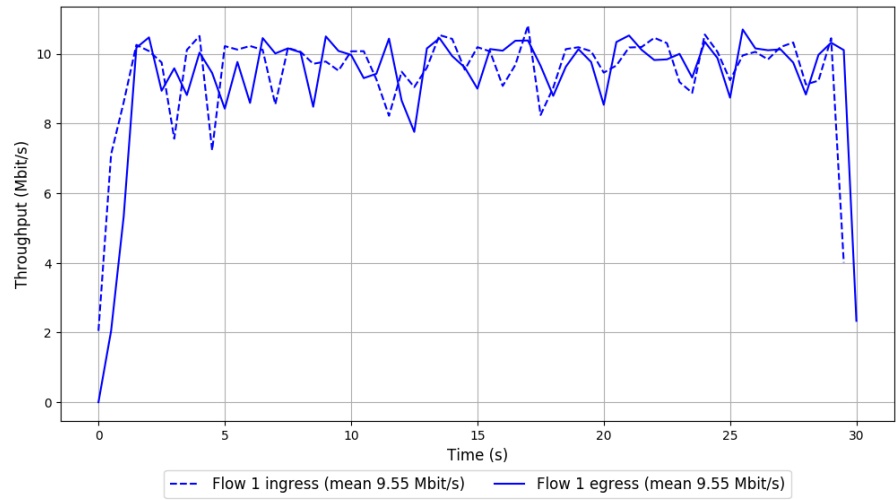


Run 1: Statistics of Sprout

Start at: 2019-09-18 23:20:08
End at: 2019-09-18 23:20:38
Local clock offset: -0.124 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2019-09-19 03:25:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.55 Mbit/s
95th percentile per-packet one-way delay: 47.430 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 9.55 Mbit/s
95th percentile per-packet one-way delay: 47.430 ms
Loss rate: 0.36%

Run 1: Report of Sprout — Data Link

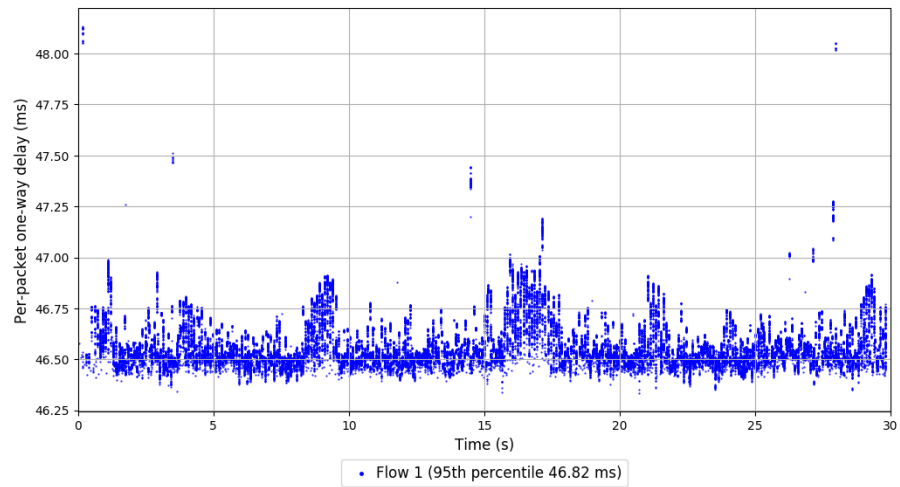
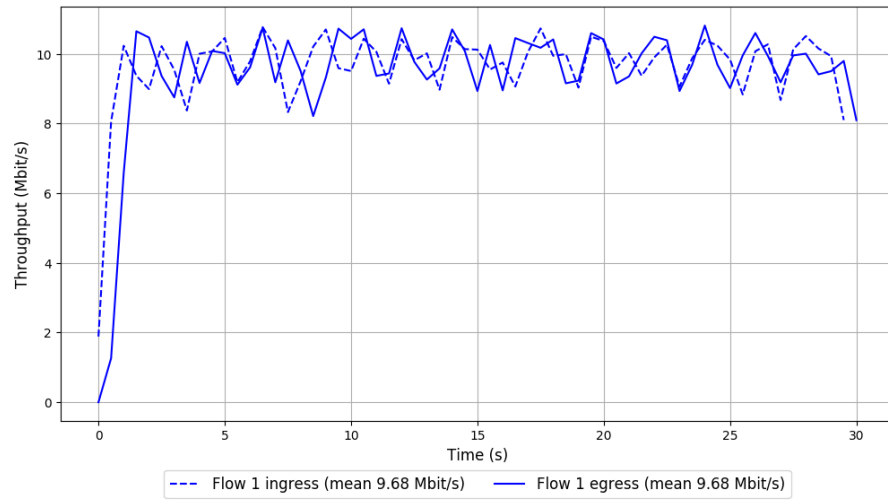


Run 2: Statistics of Sprout

Start at: 2019-09-18 23:53:45
End at: 2019-09-18 23:54:15
Local clock offset: -0.126 ms
Remote clock offset: -0.067 ms

Below is generated by plot.py at 2019-09-19 03:25:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.68 Mbit/s
95th percentile per-packet one-way delay: 46.816 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 9.68 Mbit/s
95th percentile per-packet one-way delay: 46.816 ms
Loss rate: 0.35%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-09-19 00:27:05

End at: 2019-09-19 00:27:35

Local clock offset: -0.177 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2019-09-19 03:25:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.74 Mbit/s

95th percentile per-packet one-way delay: 47.598 ms

Loss rate: 0.24%

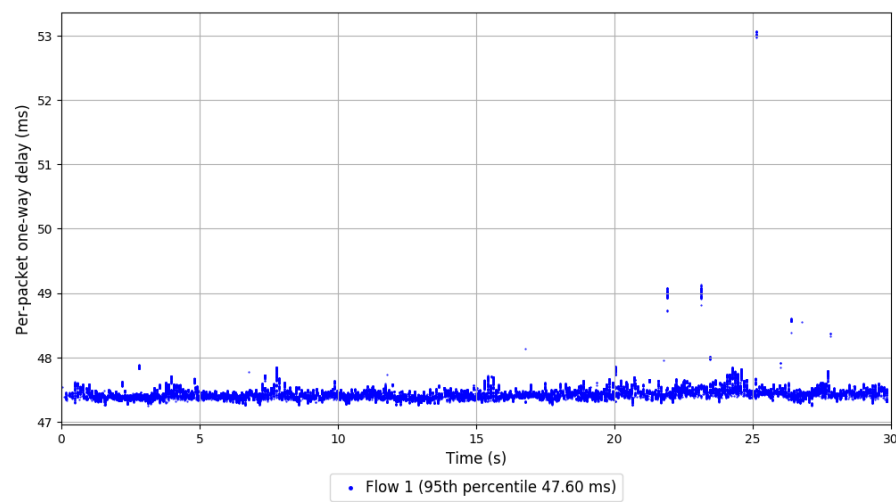
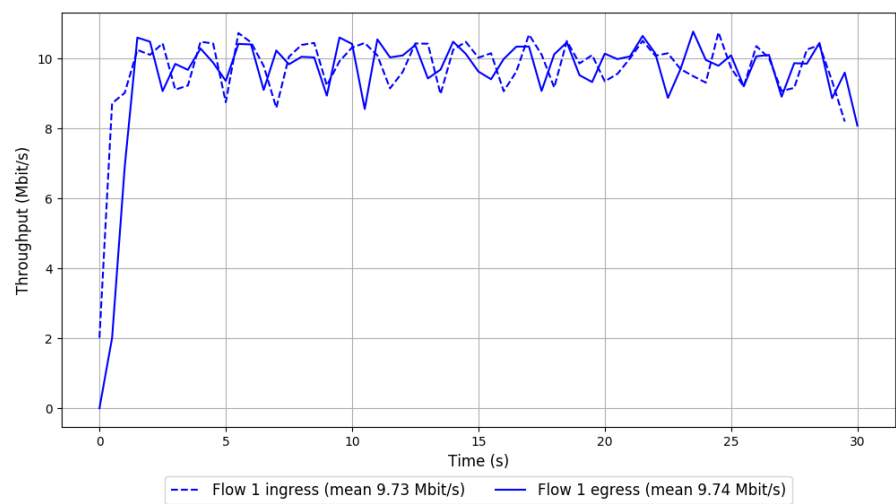
-- Flow 1:

Average throughput: 9.74 Mbit/s

95th percentile per-packet one-way delay: 47.598 ms

Loss rate: 0.24%

Run 3: Report of Sprout — Data Link

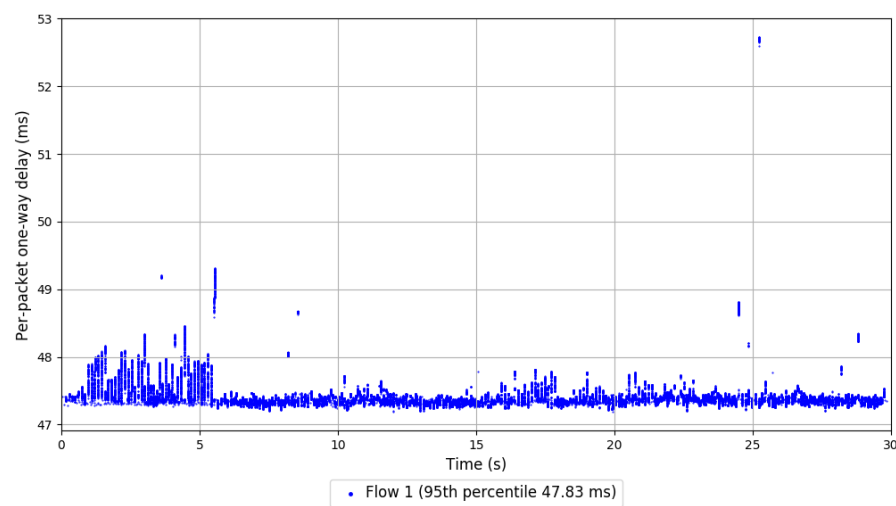
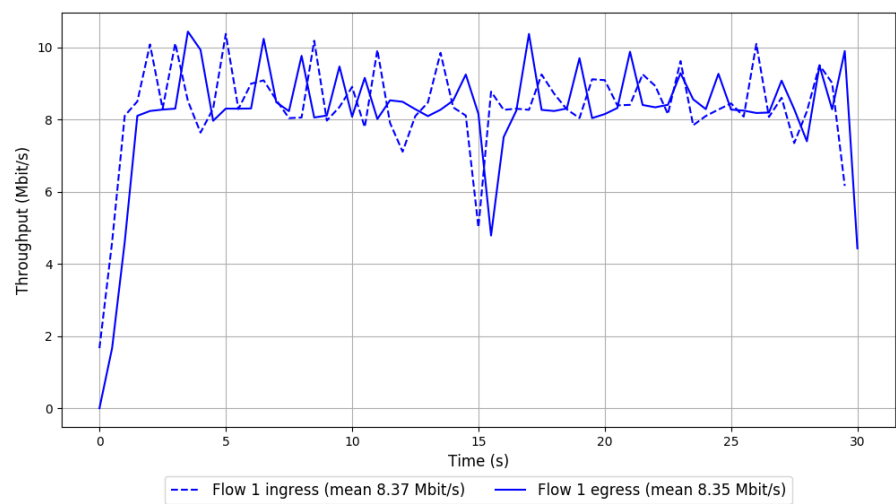


Run 4: Statistics of Sprout

Start at: 2019-09-19 01:00:41
End at: 2019-09-19 01:01:11
Local clock offset: -0.178 ms
Remote clock offset: 0.004 ms

Below is generated by plot.py at 2019-09-19 03:25:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 8.35 Mbit/s
95th percentile per-packet one-way delay: 47.826 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 8.35 Mbit/s
95th percentile per-packet one-way delay: 47.826 ms
Loss rate: 0.41%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-09-19 01:34:52

End at: 2019-09-19 01:35:22

Local clock offset: 0.208 ms

Remote clock offset: 0.019 ms

Below is generated by plot.py at 2019-09-19 03:25:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.73 Mbit/s

95th percentile per-packet one-way delay: 47.976 ms

Loss rate: 0.35%

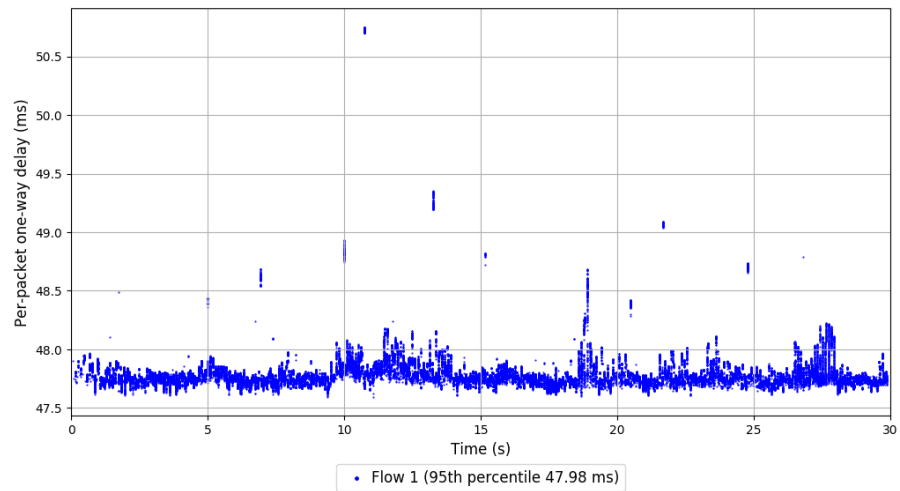
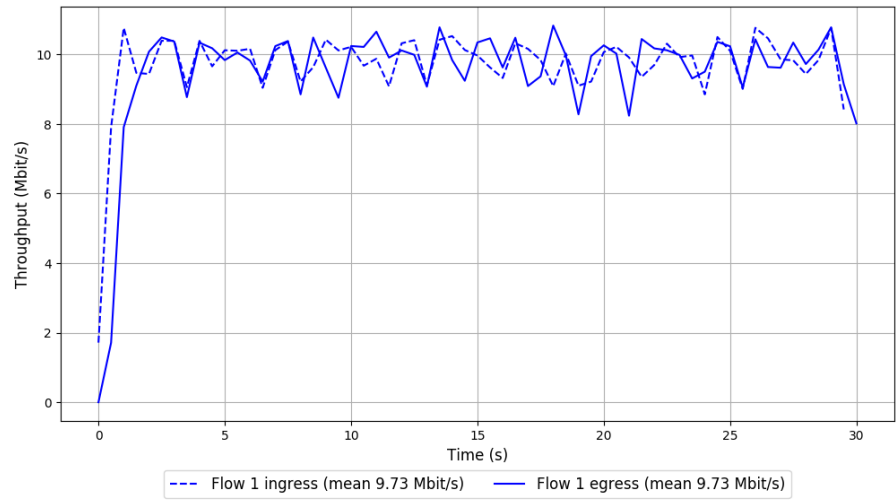
-- Flow 1:

Average throughput: 9.73 Mbit/s

95th percentile per-packet one-way delay: 47.976 ms

Loss rate: 0.35%

Run 5: Report of Sprout — Data Link

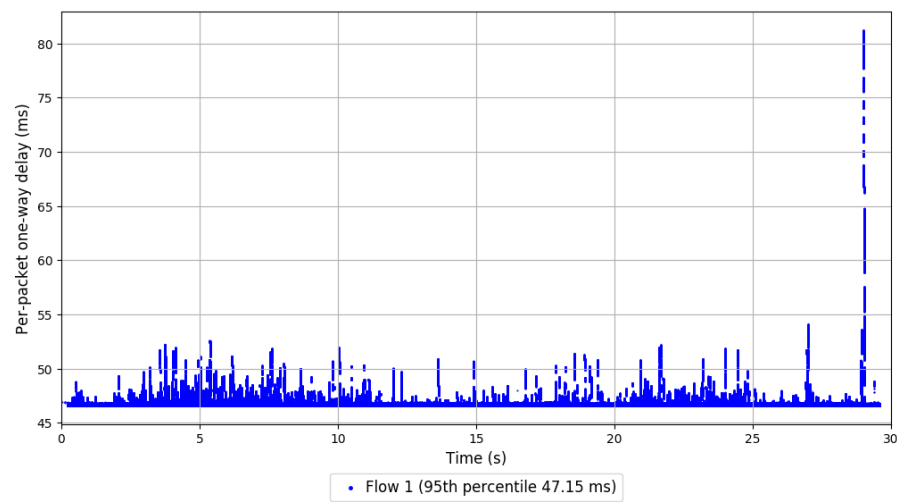
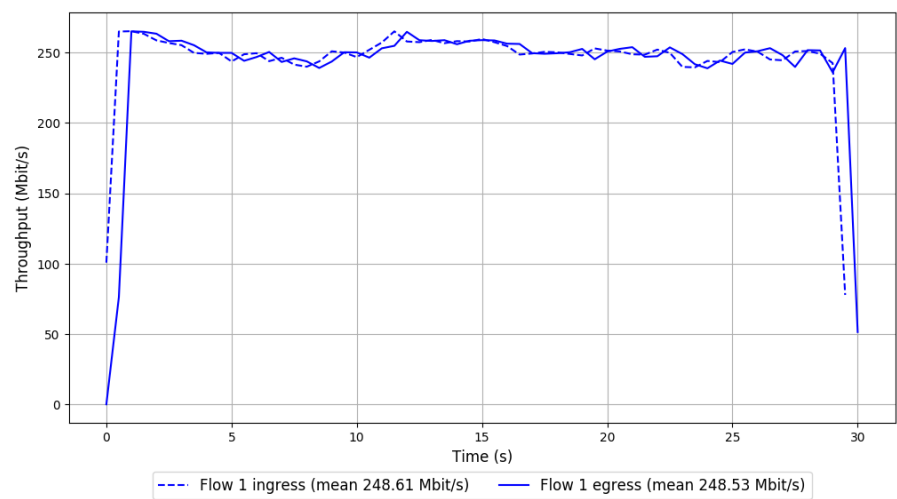


Run 1: Statistics of TaoVA-100x

Start at: 2019-09-18 22:55:57
End at: 2019-09-18 22:56:27
Local clock offset: -0.556 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2019-09-19 03:29:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 248.53 Mbit/s
95th percentile per-packet one-way delay: 47.148 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 248.53 Mbit/s
95th percentile per-packet one-way delay: 47.148 ms
Loss rate: 0.35%

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

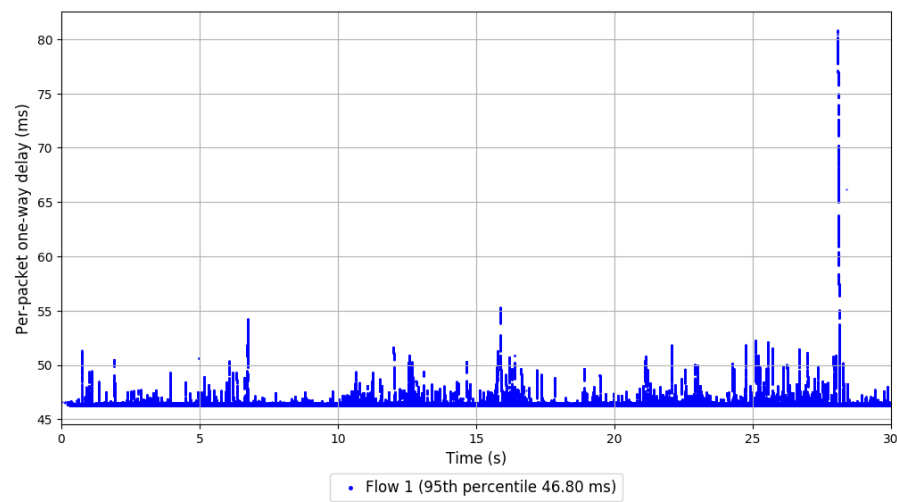
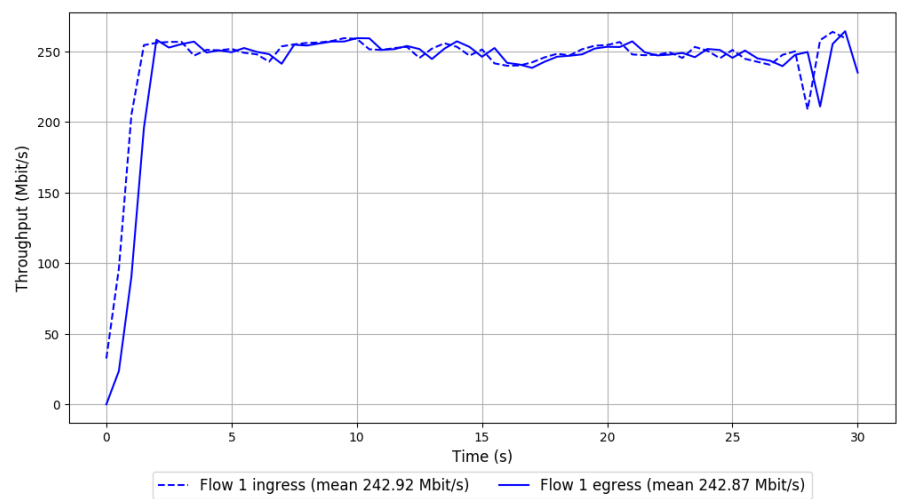


Run 2: Statistics of TaoVA-100x

Start at: 2019-09-18 23:29:09
End at: 2019-09-18 23:29:39
Local clock offset: -0.146 ms
Remote clock offset: -0.019 ms

Below is generated by plot.py at 2019-09-19 03:29:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 242.87 Mbit/s
95th percentile per-packet one-way delay: 46.804 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 242.87 Mbit/s
95th percentile per-packet one-way delay: 46.804 ms
Loss rate: 0.33%

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

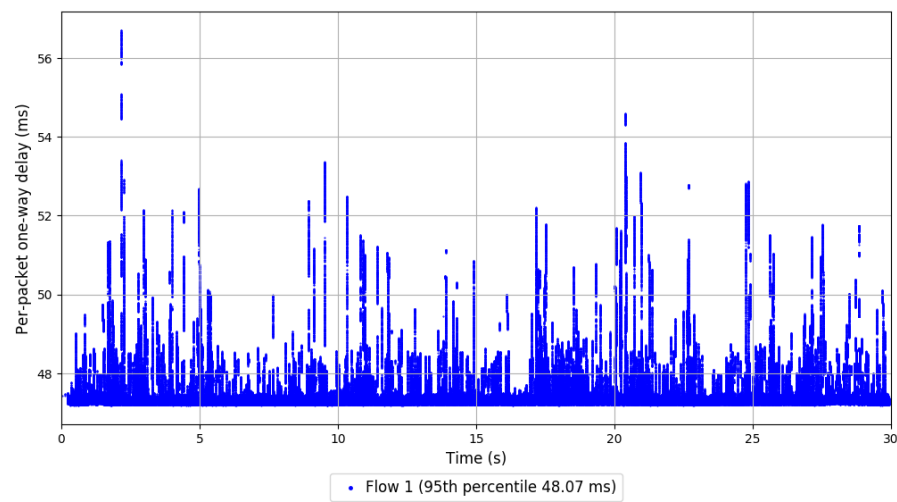
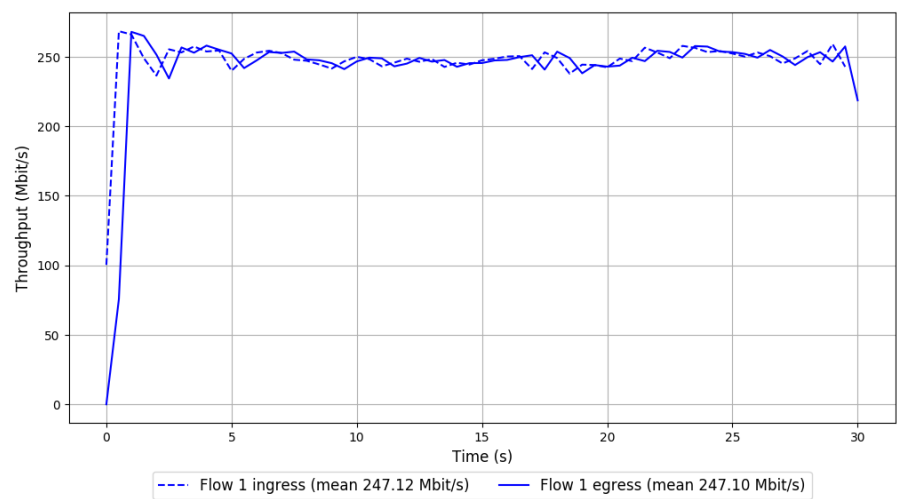


Run 3: Statistics of TaoVA-100x

Start at: 2019-09-19 00:02:47
End at: 2019-09-19 00:03:17
Local clock offset: -0.103 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2019-09-19 03:30:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 247.10 Mbit/s
95th percentile per-packet one-way delay: 48.070 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 247.10 Mbit/s
95th percentile per-packet one-way delay: 48.070 ms
Loss rate: 0.33%

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

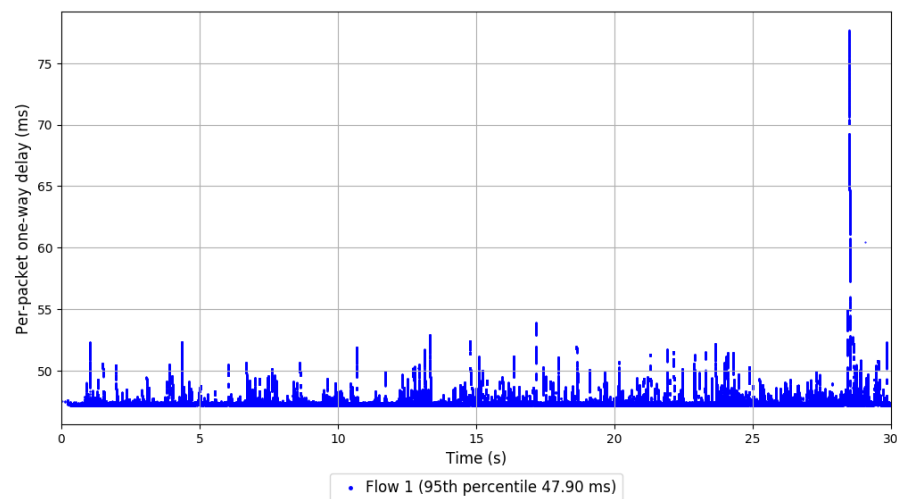
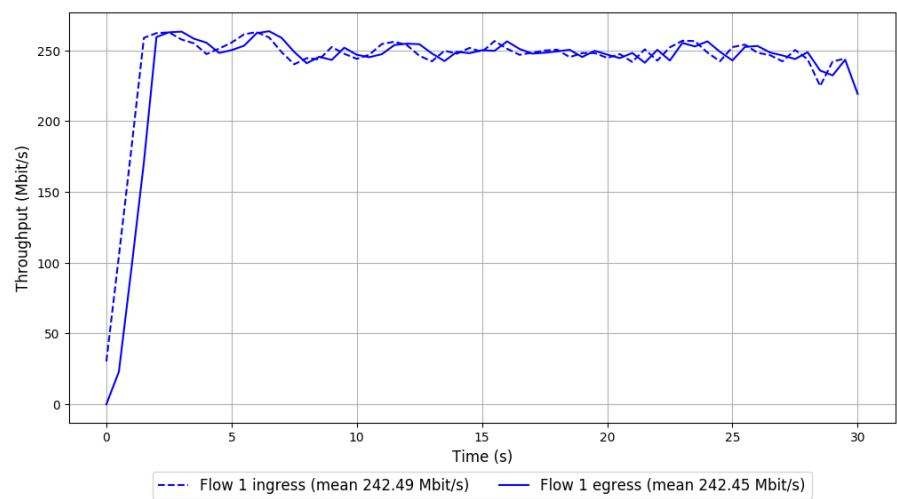


Run 4: Statistics of TaoVA-100x

Start at: 2019-09-19 00:36:06
End at: 2019-09-19 00:36:36
Local clock offset: -0.205 ms
Remote clock offset: -0.065 ms

Below is generated by plot.py at 2019-09-19 03:30:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 242.45 Mbit/s
95th percentile per-packet one-way delay: 47.904 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 242.45 Mbit/s
95th percentile per-packet one-way delay: 47.904 ms
Loss rate: 0.33%

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

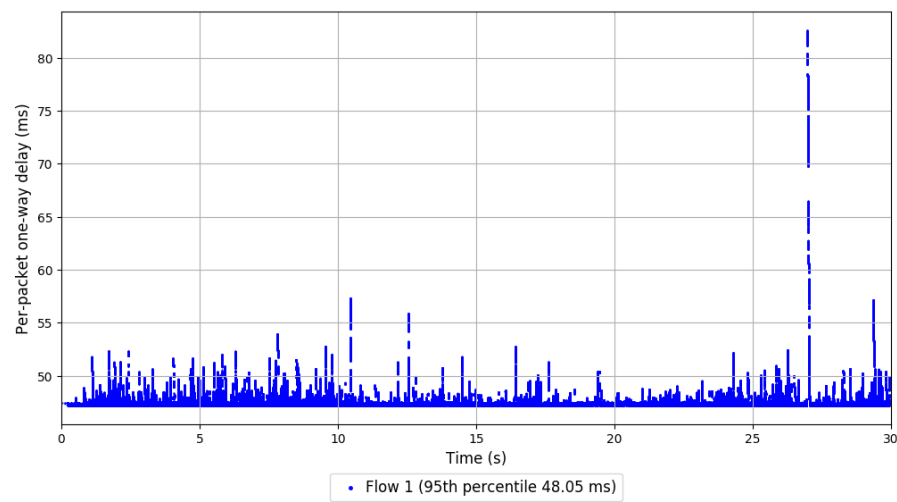
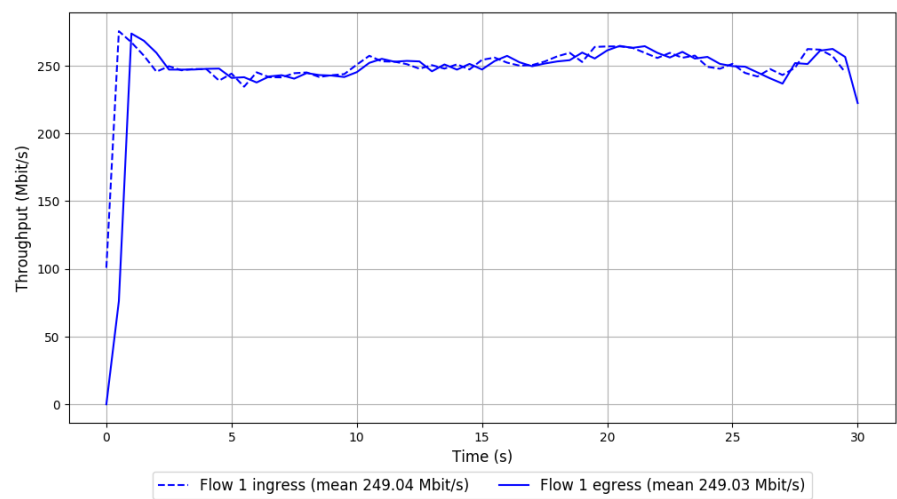


Run 5: Statistics of TaoVA-100x

Start at: 2019-09-19 01:09:48
End at: 2019-09-19 01:10:18
Local clock offset: -0.165 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2019-09-19 03:30:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 249.03 Mbit/s
95th percentile per-packet one-way delay: 48.054 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 249.03 Mbit/s
95th percentile per-packet one-way delay: 48.054 ms
Loss rate: 0.32%

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

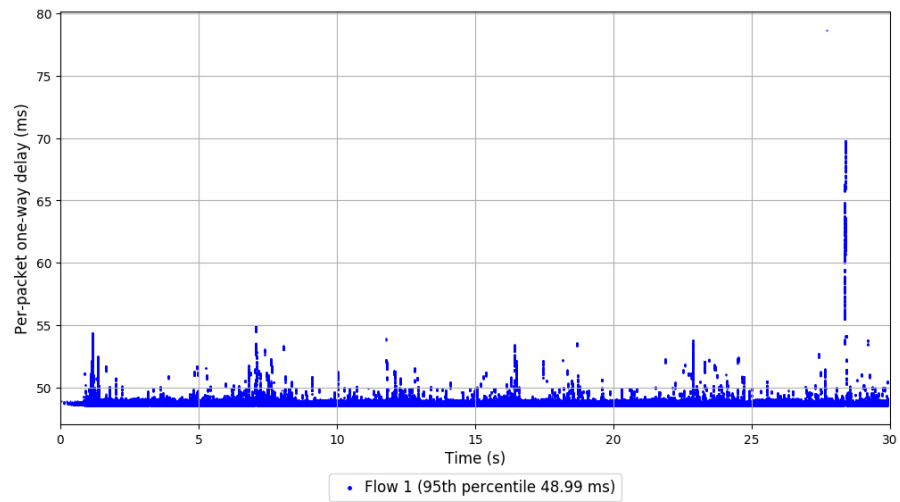
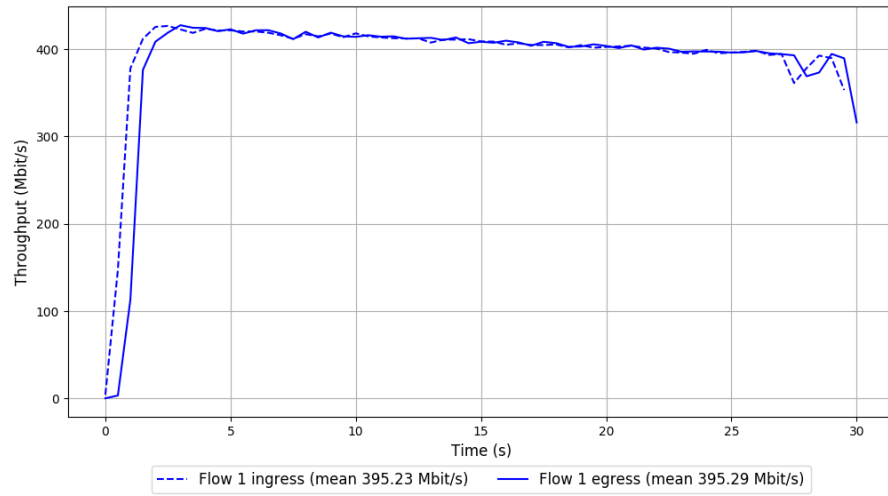


Run 1: Statistics of TCP Vegas

Start at: 2019-09-18 22:57:26
End at: 2019-09-18 22:57:56
Local clock offset: -0.172 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2019-09-19 03:30:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 395.29 Mbit/s
95th percentile per-packet one-way delay: 48.994 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 395.29 Mbit/s
95th percentile per-packet one-way delay: 48.994 ms
Loss rate: 0.31%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-09-18 23:30:38

End at: 2019-09-18 23:31:08

Local clock offset: -0.139 ms

Remote clock offset: -0.06 ms

Below is generated by plot.py at 2019-09-19 03:30:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 266.14 Mbit/s

95th percentile per-packet one-way delay: 47.493 ms

Loss rate: 0.16%

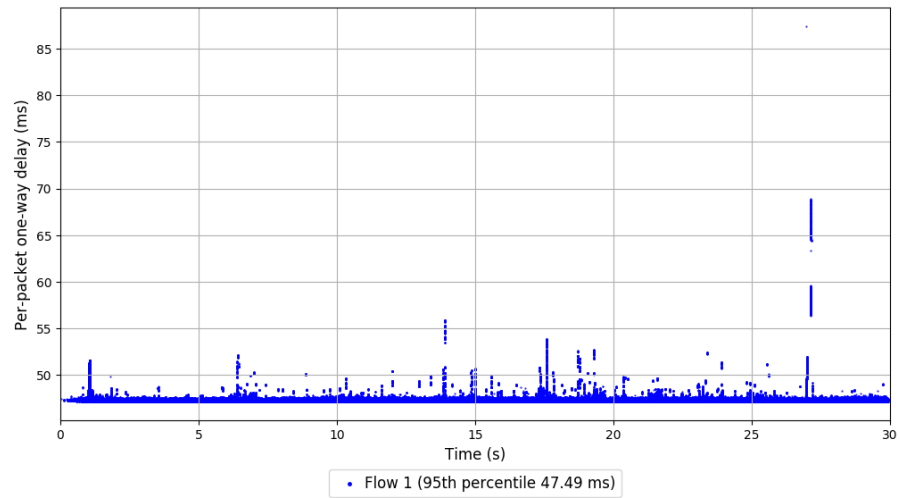
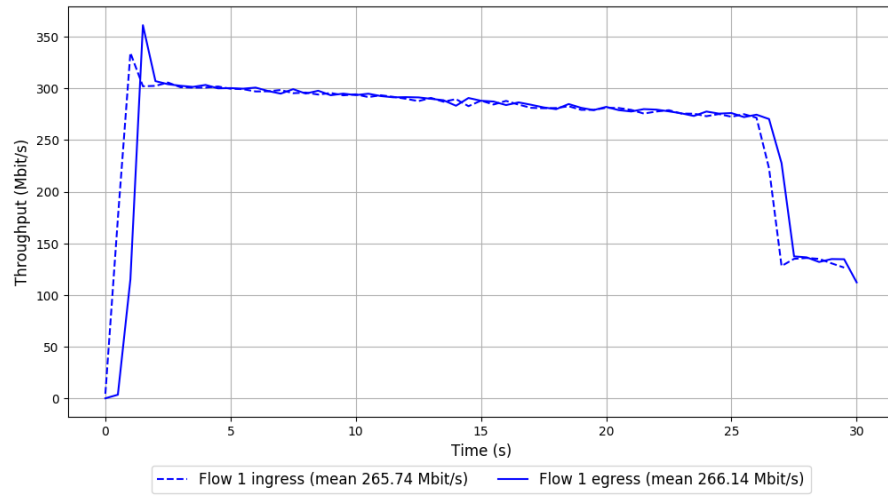
-- Flow 1:

Average throughput: 266.14 Mbit/s

95th percentile per-packet one-way delay: 47.493 ms

Loss rate: 0.16%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-09-19 00:04:16

End at: 2019-09-19 00:04:46

Local clock offset: -0.12 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2019-09-19 03:30:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.58 Mbit/s

95th percentile per-packet one-way delay: 47.380 ms

Loss rate: 0.29%

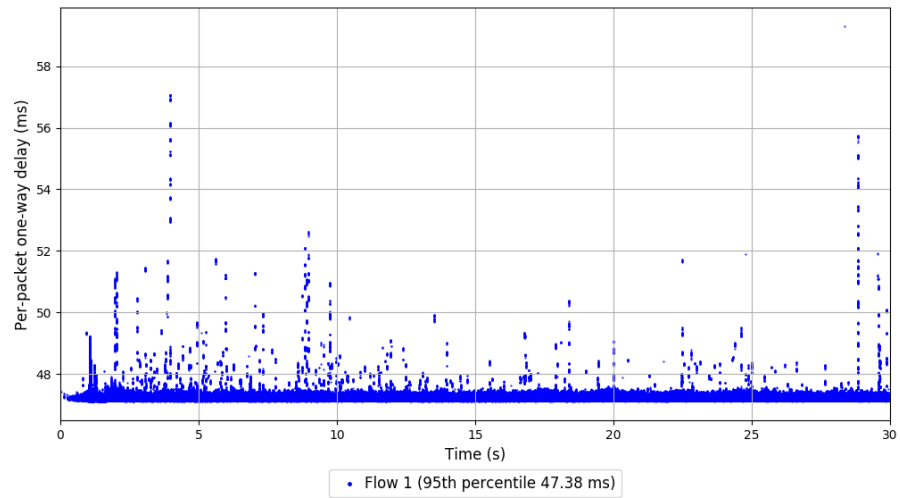
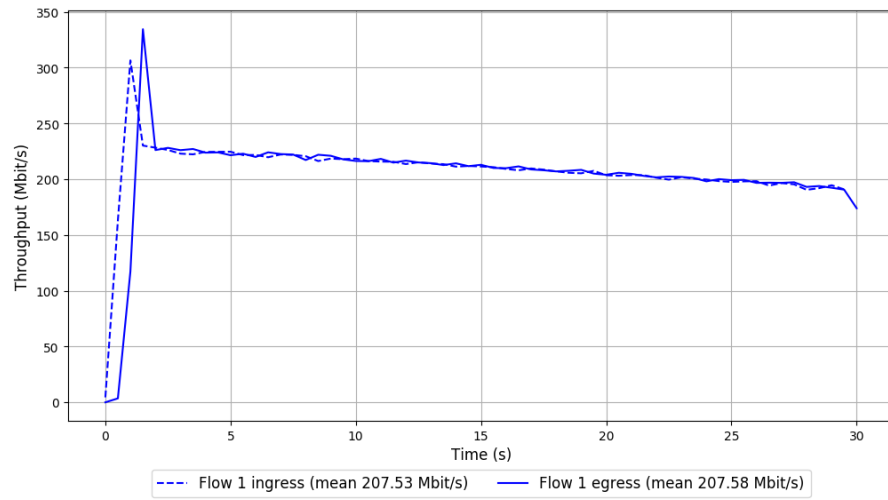
-- Flow 1:

Average throughput: 207.58 Mbit/s

95th percentile per-packet one-way delay: 47.380 ms

Loss rate: 0.29%

Run 3: Report of TCP Vegas — Data Link

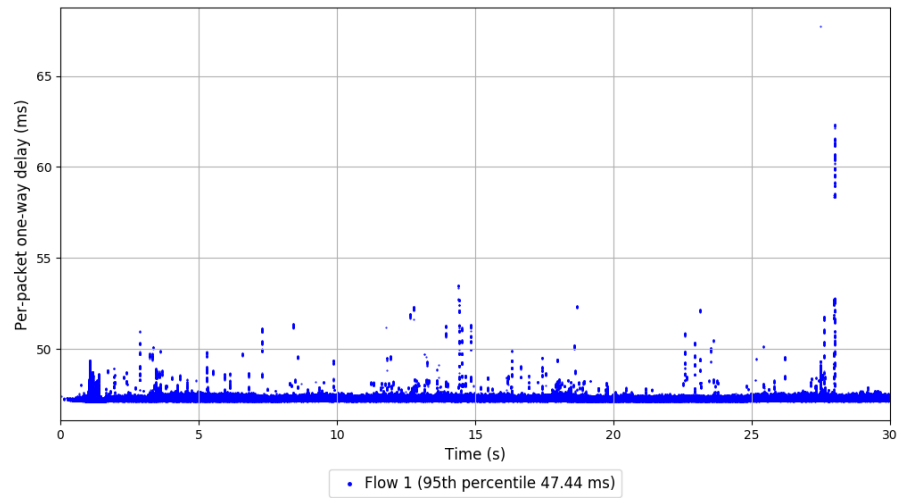
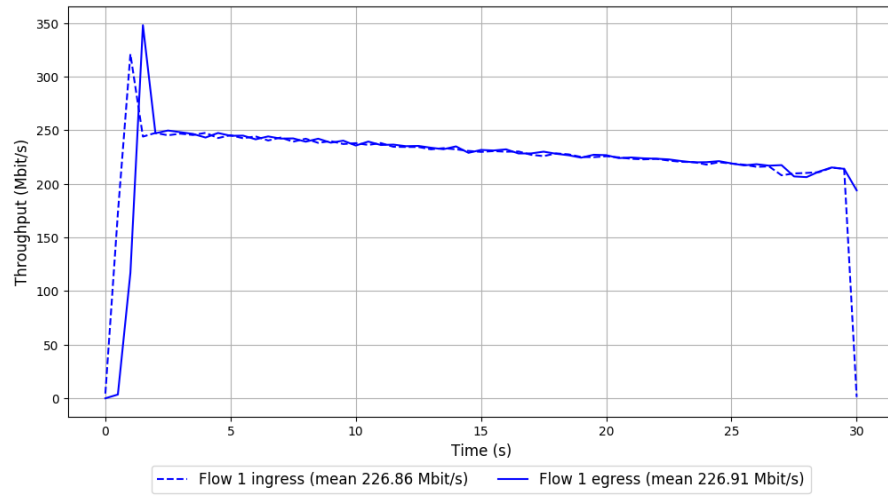


Run 4: Statistics of TCP Vegas

Start at: 2019-09-19 00:37:35
End at: 2019-09-19 00:38:05
Local clock offset: -0.203 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2019-09-19 03:33:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 226.91 Mbit/s
95th percentile per-packet one-way delay: 47.436 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 226.91 Mbit/s
95th percentile per-packet one-way delay: 47.436 ms
Loss rate: 0.29%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-09-19 01:11:18

End at: 2019-09-19 01:11:48

Local clock offset: -0.199 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2019-09-19 03:33:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 95.634 ms

Loss rate: 19.01%

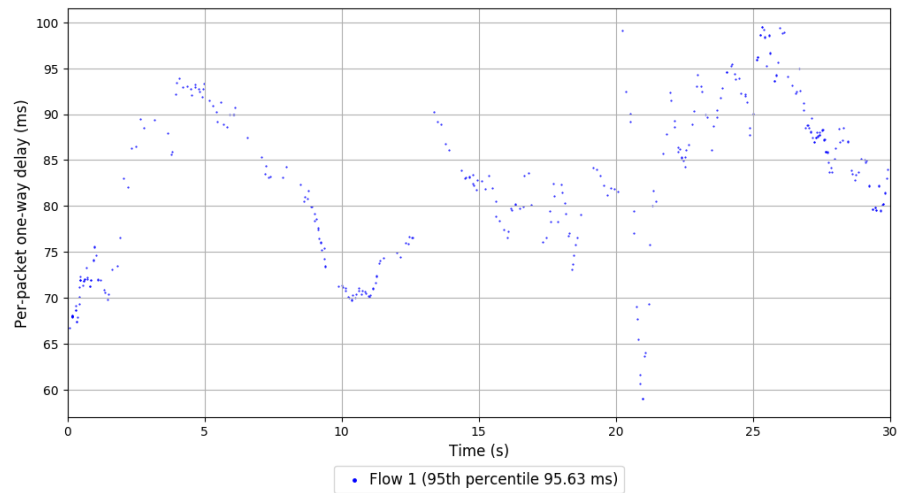
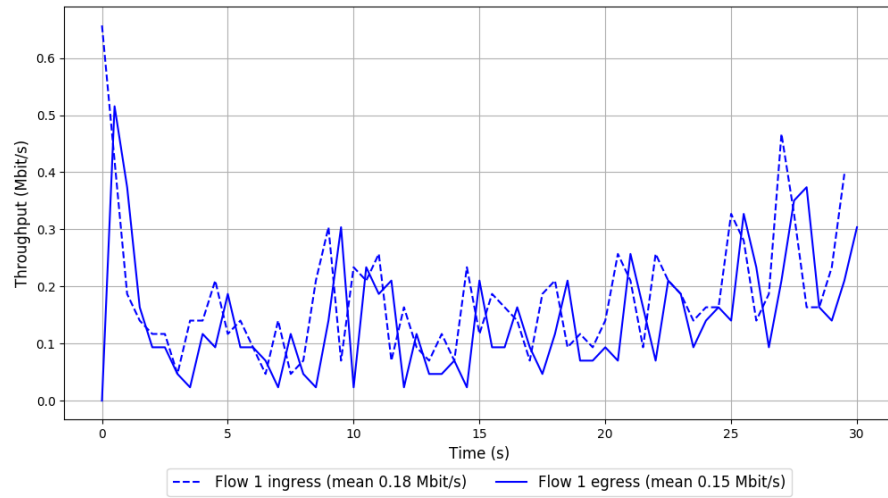
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 95.634 ms

Loss rate: 19.01%

Run 5: Report of TCP Vegas — Data Link

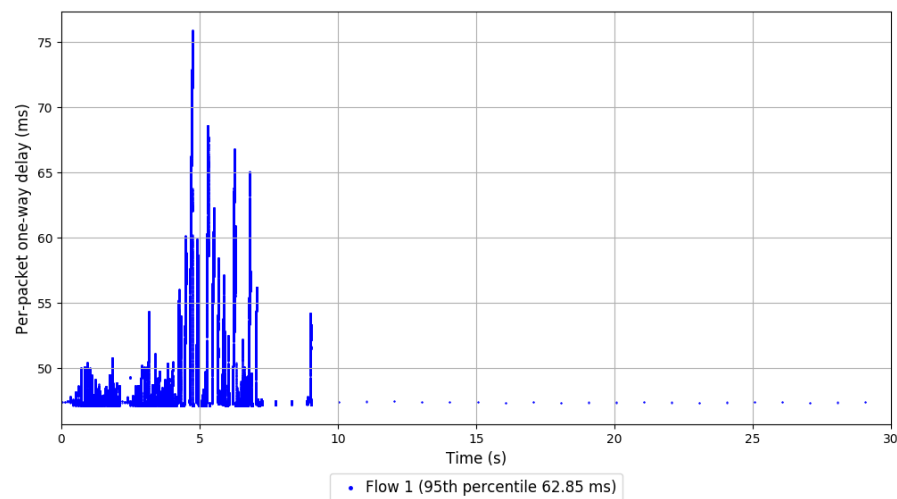
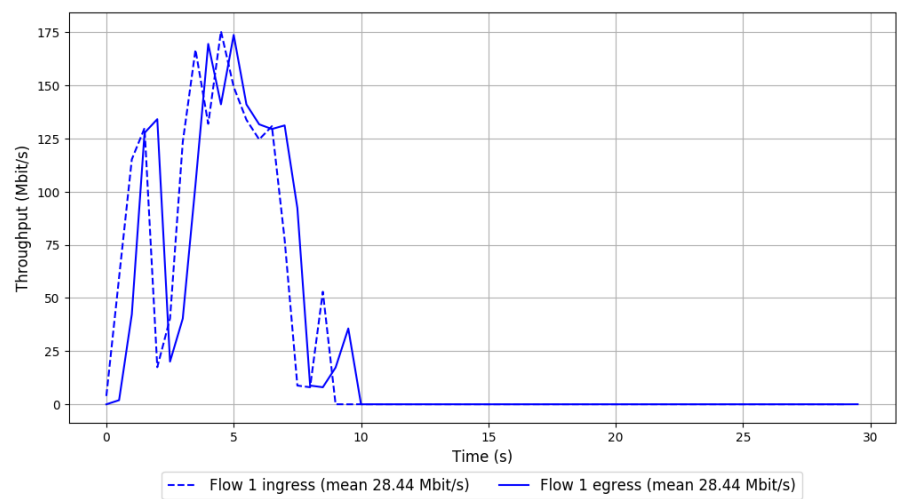


Run 1: Statistics of Verus

Start at: 2019-09-18 23:02:49
End at: 2019-09-18 23:03:19
Local clock offset: -0.138 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2019-09-19 03:33:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 28.44 Mbit/s
95th percentile per-packet one-way delay: 62.853 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.44 Mbit/s
95th percentile per-packet one-way delay: 62.853 ms
Loss rate: 0.00%

Run 1: Report of Verus — Data Link

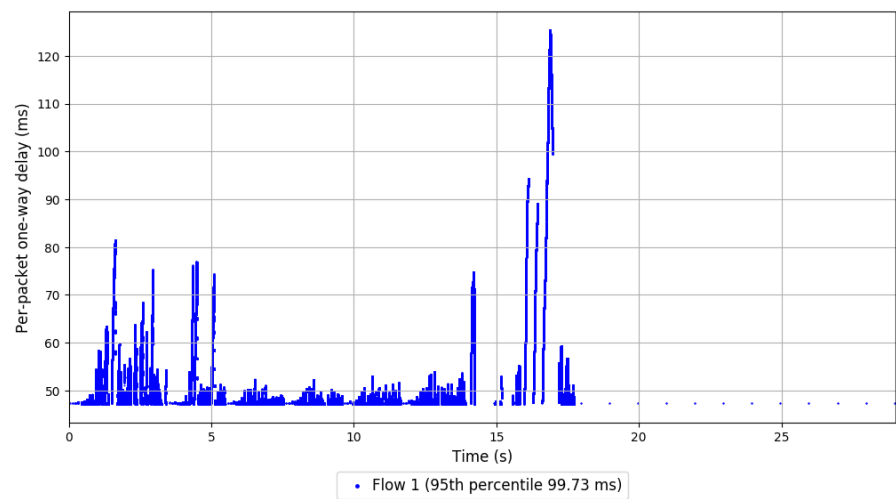
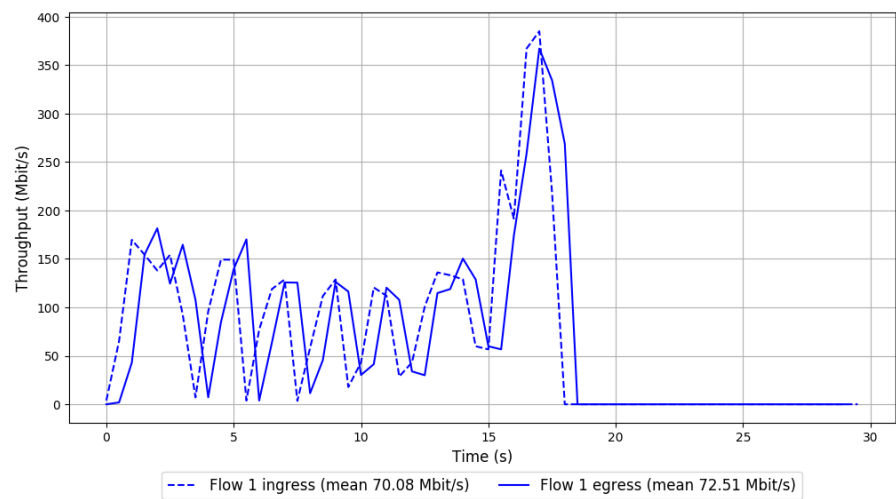


Run 2: Statistics of Verus

Start at: 2019-09-18 23:36:11
End at: 2019-09-18 23:36:41
Local clock offset: -0.11 ms
Remote clock offset: -0.067 ms

Below is generated by plot.py at 2019-09-19 03:33:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.51 Mbit/s
95th percentile per-packet one-way delay: 99.735 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 72.51 Mbit/s
95th percentile per-packet one-way delay: 99.735 ms
Loss rate: 0.00%

Run 2: Report of Verus — Data Link

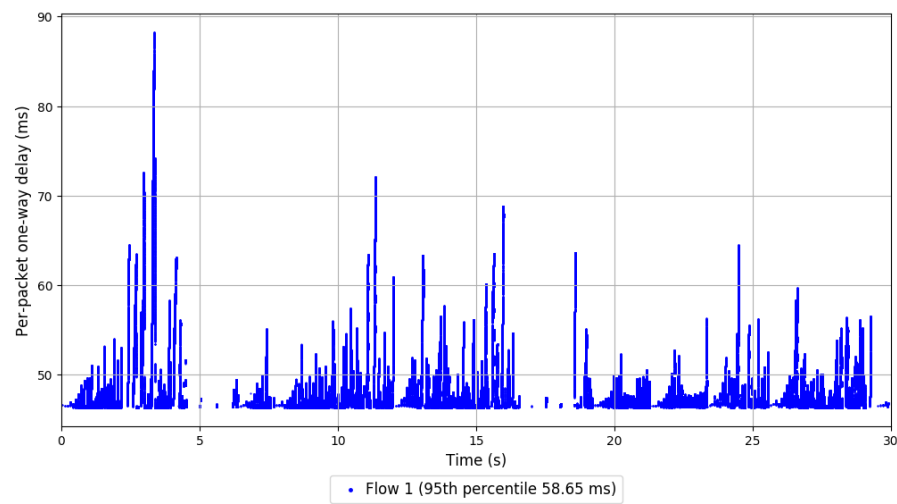
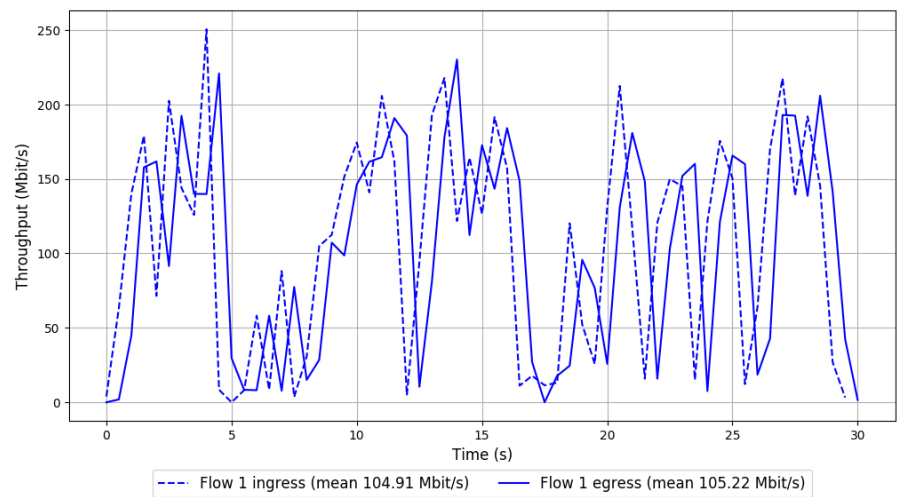


Run 3: Statistics of Verus

Start at: 2019-09-19 00:09:38
End at: 2019-09-19 00:10:08
Local clock offset: -0.091 ms
Remote clock offset: -0.065 ms

Below is generated by plot.py at 2019-09-19 03:33:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 105.22 Mbit/s
95th percentile per-packet one-way delay: 58.645 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 105.22 Mbit/s
95th percentile per-packet one-way delay: 58.645 ms
Loss rate: 0.03%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-09-19 00:43:09

End at: 2019-09-19 00:43:39

Local clock offset: -0.178 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2019-09-19 03:33:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.31 Mbit/s

95th percentile per-packet one-way delay: 114.297 ms

Loss rate: 0.00%

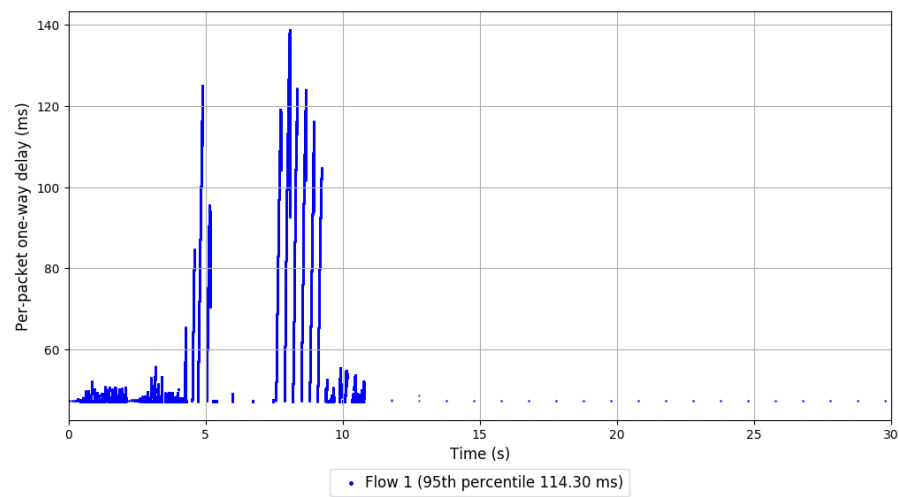
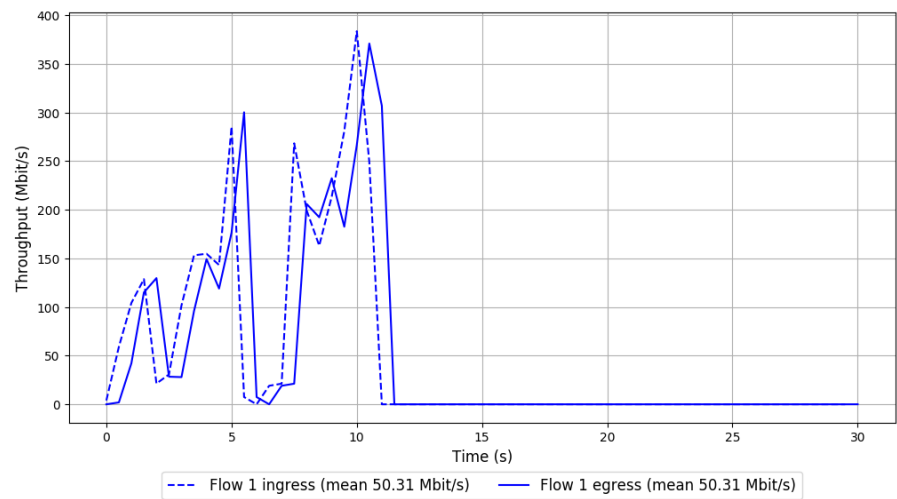
-- Flow 1:

Average throughput: 50.31 Mbit/s

95th percentile per-packet one-way delay: 114.297 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-09-19 01:16:47

End at: 2019-09-19 01:17:17

Local clock offset: -0.214 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2019-09-19 03:33:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.65 Mbit/s

95th percentile per-packet one-way delay: 76.544 ms

Loss rate: 0.00%

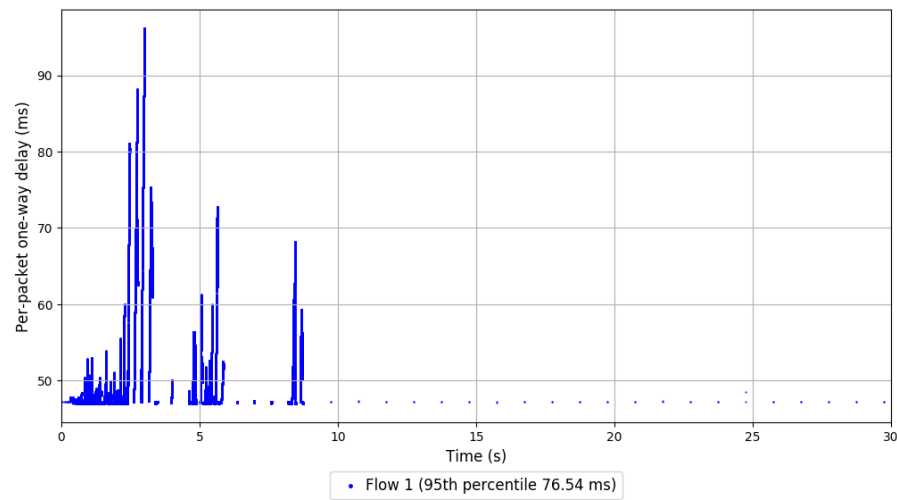
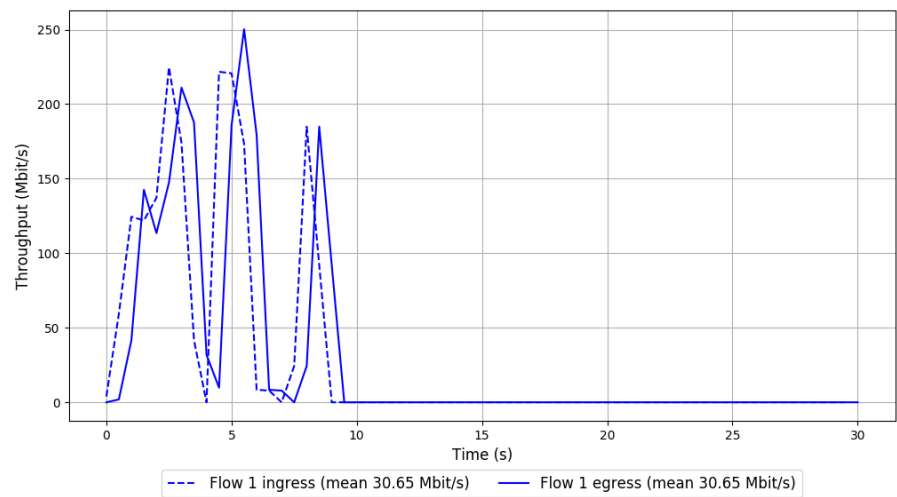
-- Flow 1:

Average throughput: 30.65 Mbit/s

95th percentile per-packet one-way delay: 76.544 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link

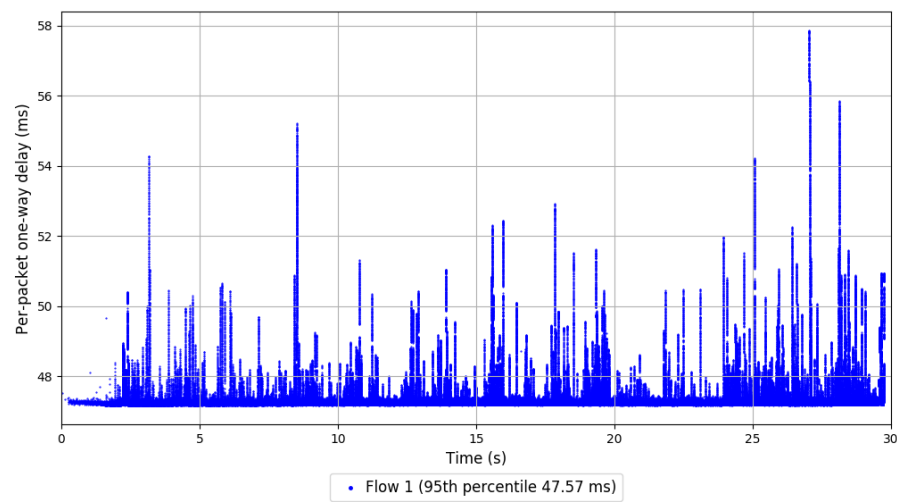
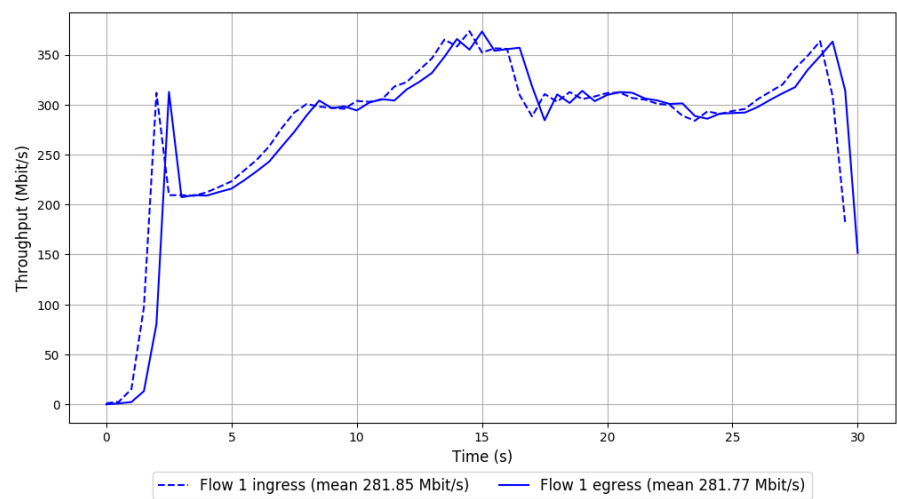


Run 1: Statistics of PCC-Vivace

Start at: 2019-09-18 23:14:05
End at: 2019-09-18 23:14:35
Local clock offset: -0.125 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2019-09-19 03:34:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 281.77 Mbit/s
95th percentile per-packet one-way delay: 47.568 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 281.77 Mbit/s
95th percentile per-packet one-way delay: 47.568 ms
Loss rate: 0.35%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-09-18 23:47:42

End at: 2019-09-18 23:48:12

Local clock offset: -0.147 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2019-09-19 03:34:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 267.40 Mbit/s

95th percentile per-packet one-way delay: 47.694 ms

Loss rate: 0.43%

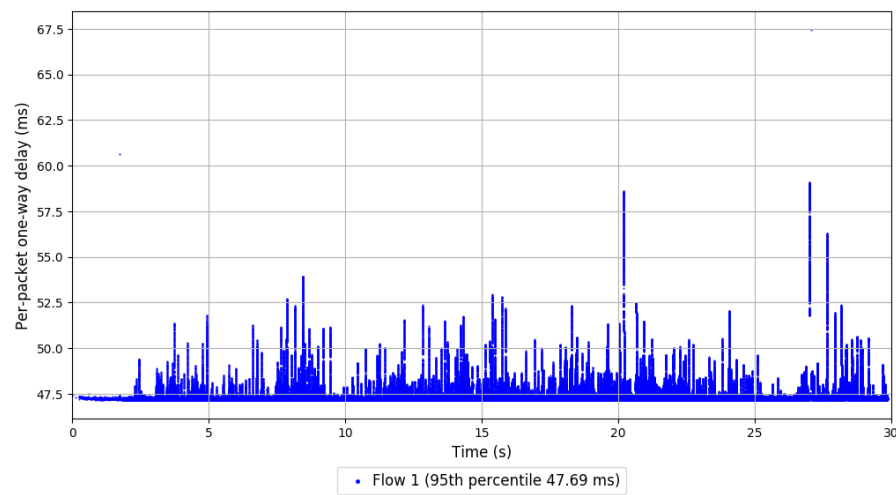
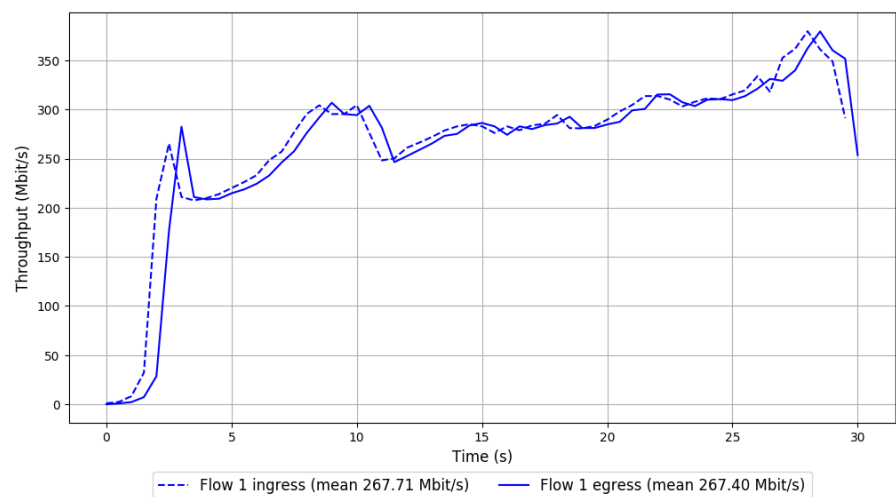
-- Flow 1:

Average throughput: 267.40 Mbit/s

95th percentile per-packet one-way delay: 47.694 ms

Loss rate: 0.43%

Run 2: Report of PCC-Vivace — Data Link

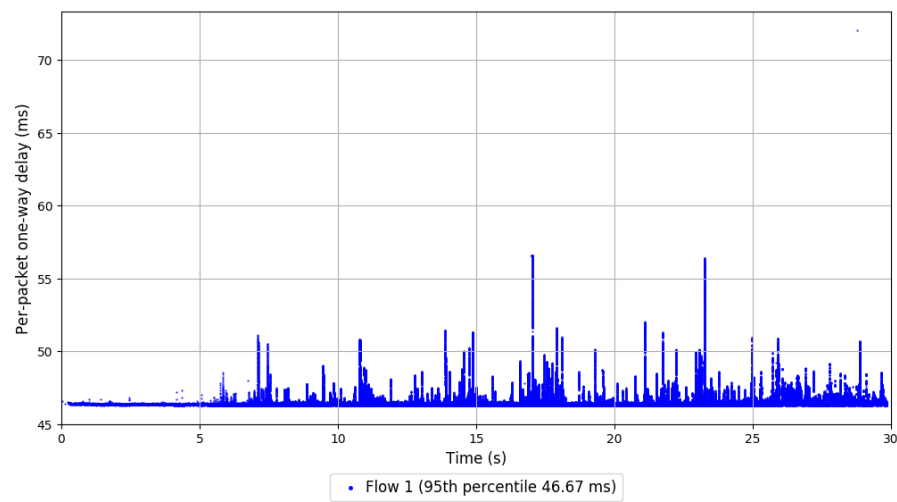
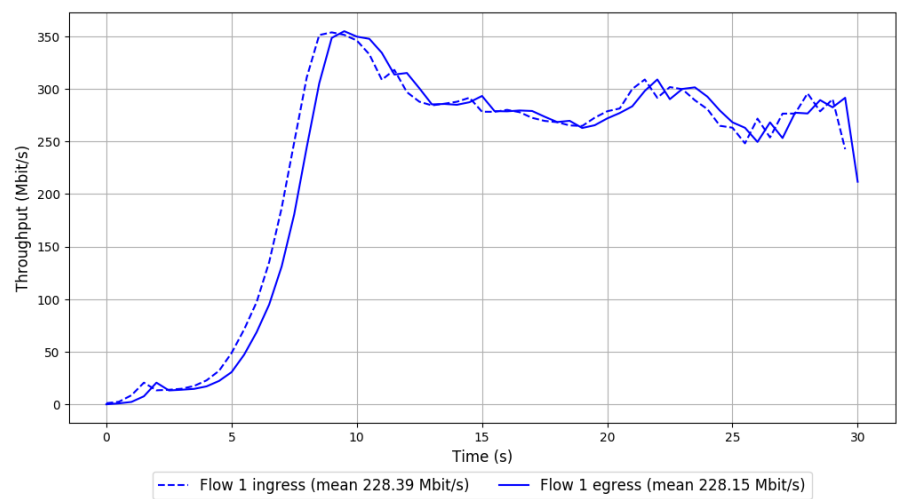


Run 3: Statistics of PCC-Vivace

Start at: 2019-09-19 00:21:12
End at: 2019-09-19 00:21:42
Local clock offset: -0.162 ms
Remote clock offset: -0.046 ms

Below is generated by plot.py at 2019-09-19 03:34:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 228.15 Mbit/s
95th percentile per-packet one-way delay: 46.668 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 228.15 Mbit/s
95th percentile per-packet one-way delay: 46.668 ms
Loss rate: 0.42%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-09-19 00:54:40

End at: 2019-09-19 00:55:10

Local clock offset: -0.198 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2019-09-19 03:34:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 255.38 Mbit/s

95th percentile per-packet one-way delay: 48.602 ms

Loss rate: 0.34%

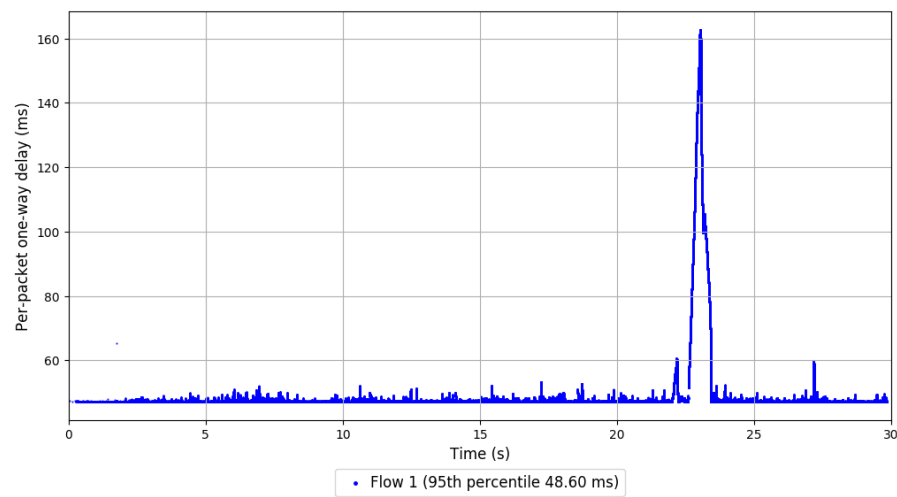
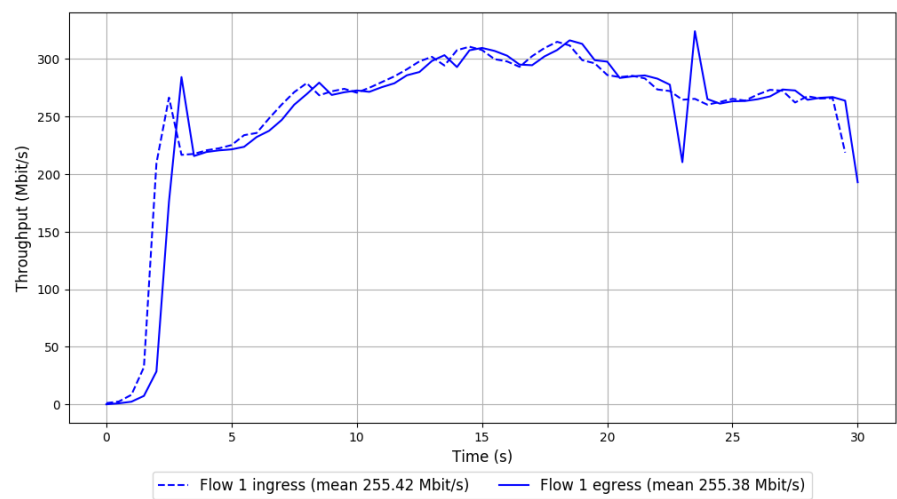
-- Flow 1:

Average throughput: 255.38 Mbit/s

95th percentile per-packet one-way delay: 48.602 ms

Loss rate: 0.34%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-09-19 01:28:50

End at: 2019-09-19 01:29:20

Local clock offset: -0.161 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2019-09-19 03:35:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 285.01 Mbit/s

95th percentile per-packet one-way delay: 47.841 ms

Loss rate: 0.32%

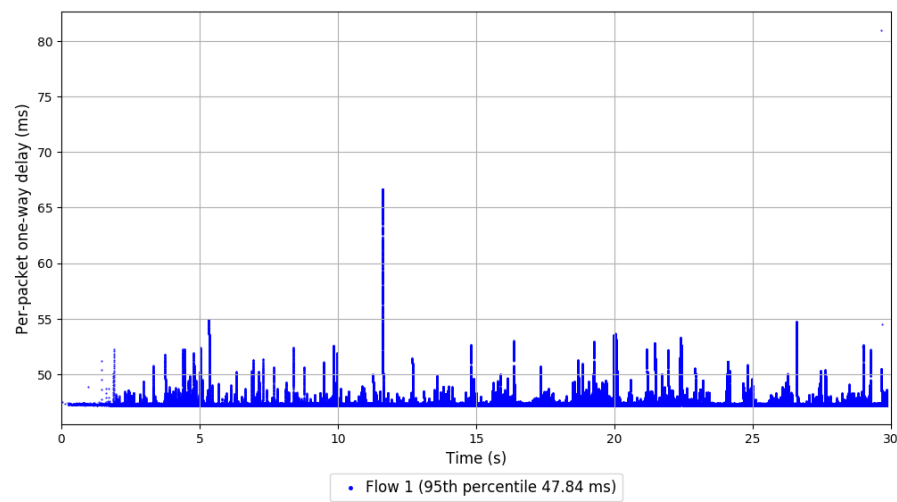
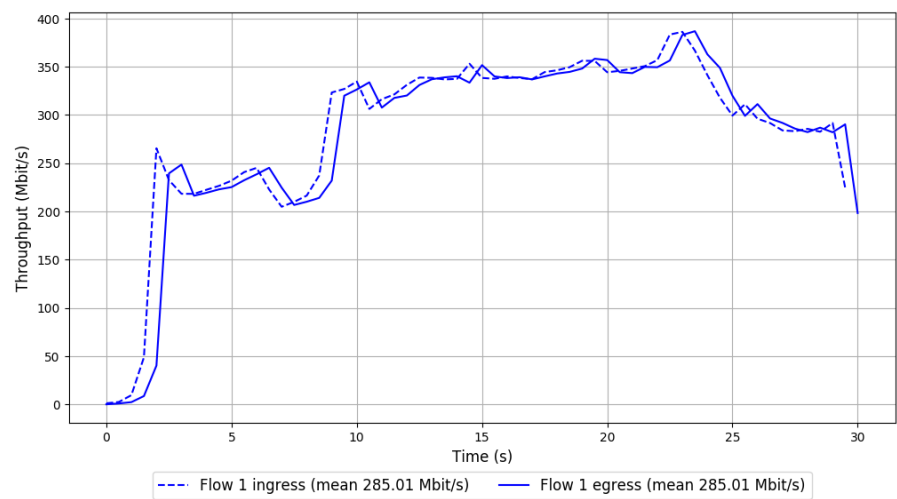
-- Flow 1:

Average throughput: 285.01 Mbit/s

95th percentile per-packet one-way delay: 47.841 ms

Loss rate: 0.32%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

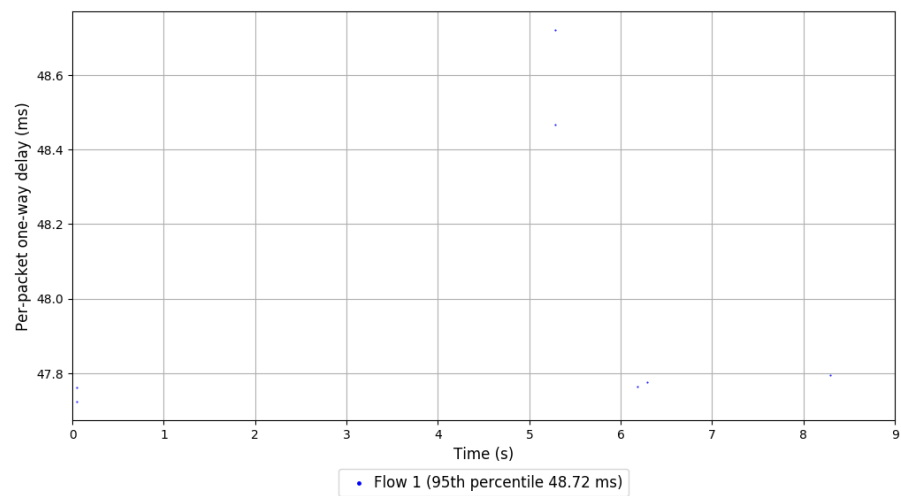
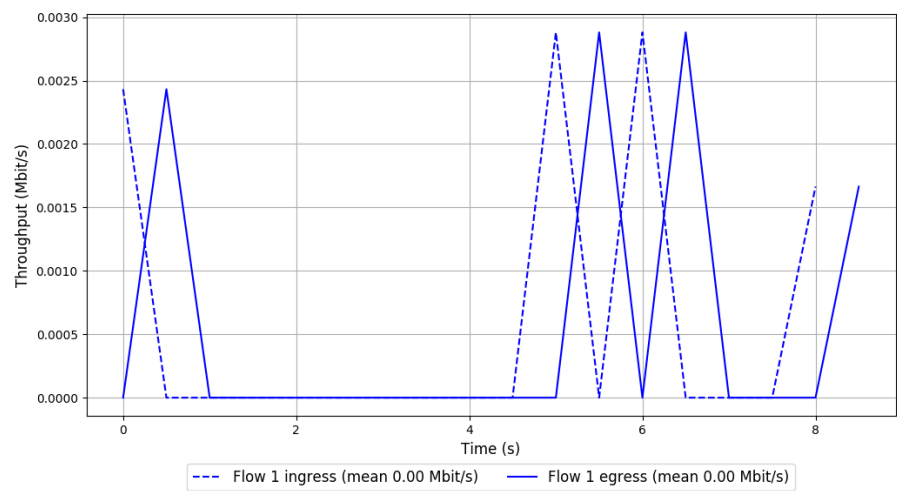
Start at: 2019-09-18 23:21:17

End at: 2019-09-18 23:21:47

Local clock offset: 0.231 ms

Remote clock offset: -0.004 ms

Run 1: Report of WebRTC media — Data Link

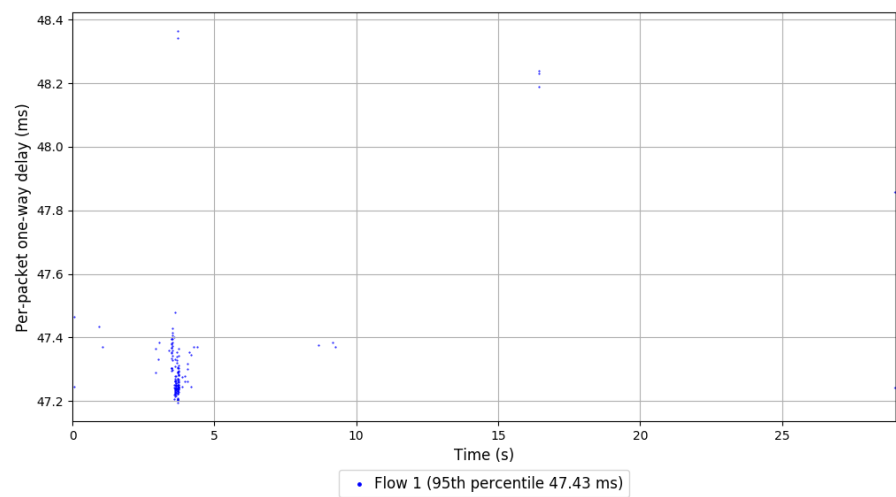
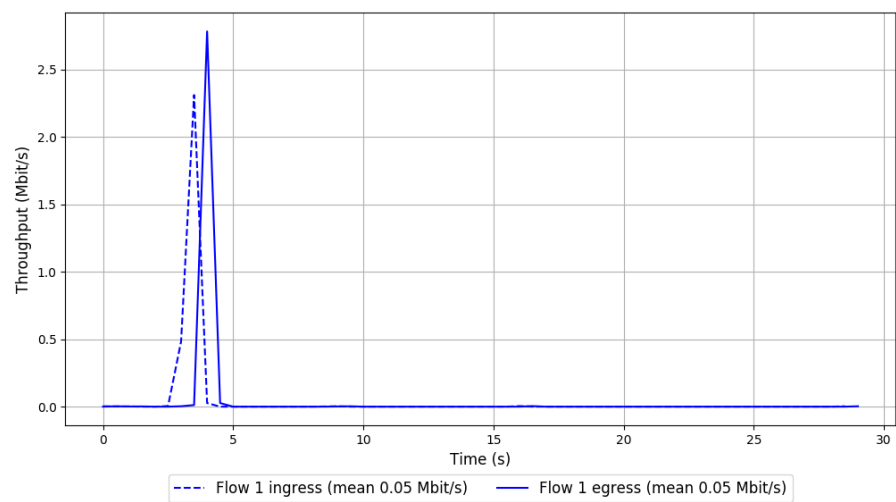


Run 2: Statistics of WebRTC media

Start at: 2019-09-18 23:54:53
End at: 2019-09-18 23:55:23
Local clock offset: -0.101 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2019-09-19 03:35:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.434 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.434 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

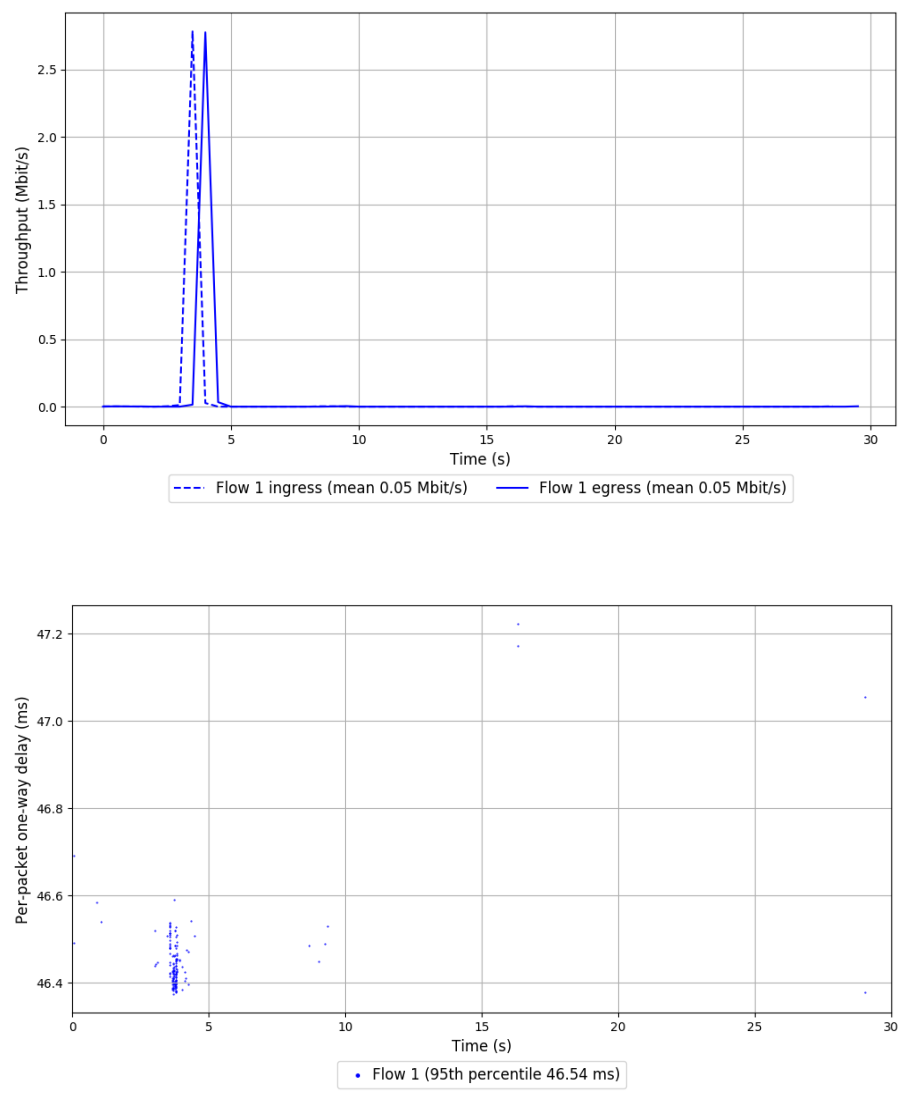


Run 3: Statistics of WebRTC media

Start at: 2019-09-19 00:28:13
End at: 2019-09-19 00:28:43
Local clock offset: -0.187 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2019-09-19 03:35:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 46.538 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 46.538 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-09-19 01:01:49

End at: 2019-09-19 01:02:19

Local clock offset: -0.19 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2019-09-19 03:35:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 46.640 ms

Loss rate: 0.00%

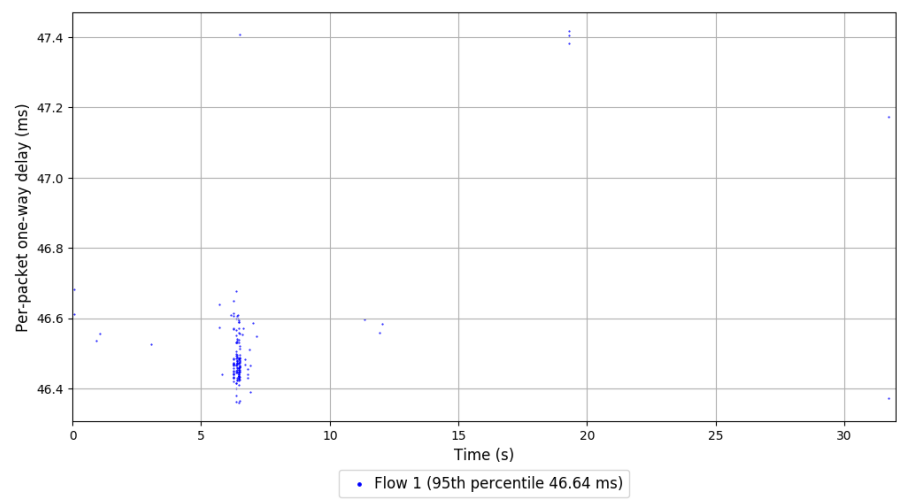
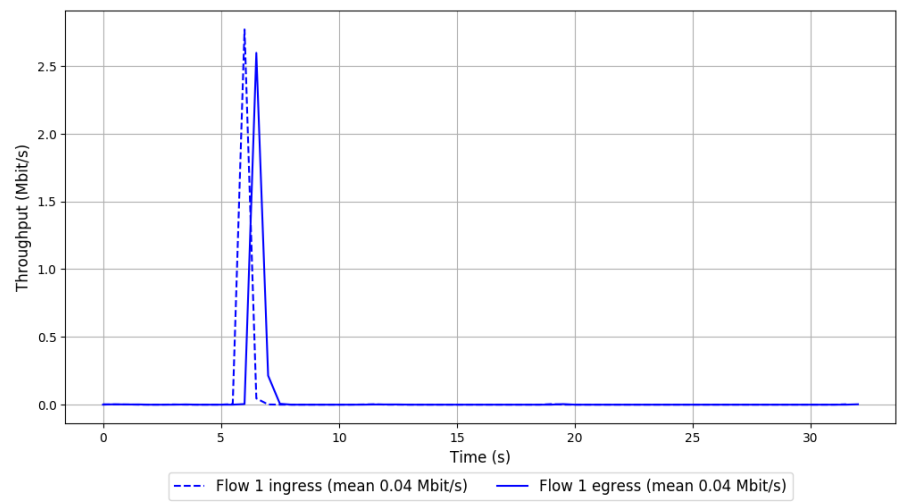
-- Flow 1:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 46.640 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-09-19 01:36:00

End at: 2019-09-19 01:36:30

Local clock offset: -0.176 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2019-09-19 03:35:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 47.447 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 47.447 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

