

Pantheon Report

Generated at 2019-07-11 20:56:46 (UTC).
Data path: AWS Brazil 2 on `ens5` (*local*) → Colombia on `p4p1` (*remote*).
Repeated the test of 24 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against `gps.ntp.br` and have been applied to correct the timestamps in logs.

System info:

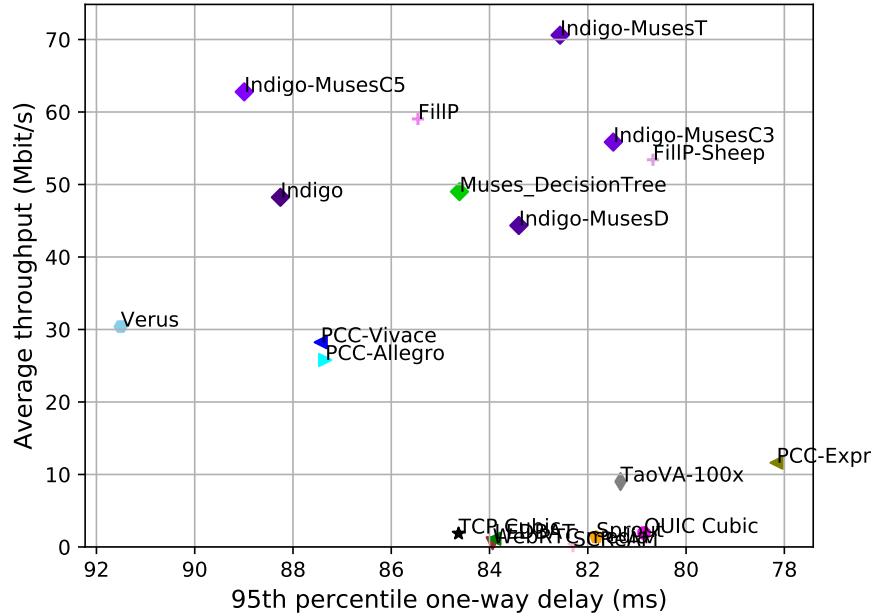
```
Linux 4.15.0-1041-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

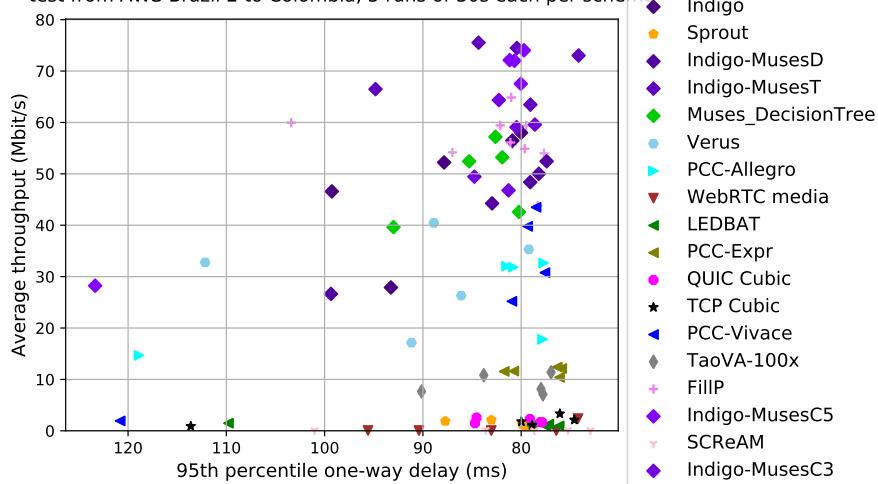
```
branch: muses @ 2076e1149a241f3edb4365d686df32342bf9561f
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 11c9498ecb1596b02ccd896791a02d03172af7ed
M helpers/_init_.pyc
M helpers/context.py
M helpers/utils.py
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
```

```
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from AWS Brazil 2 to Colombia, 5 runs of 30s each per scheme
(mean of all runs by scheme)



test from AWS Brazil 2 to Colombia, 5 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	0	N/A	N/A	N/A
Copa	0	N/A	N/A	N/A
TCP Cubic	5	1.85	84.63	1.43
FillP	5	59.04	85.46	11.41
FillP-Sheep	5	53.41	80.67	10.28
Indigo	5	48.23	88.26	24.38
Indigo-MusesC3	5	55.85	81.48	12.55
Indigo-MusesC5	5	62.78	88.99	23.99
Indigo-MusesD	5	44.34	83.40	10.79
Indigo-MusesT	5	70.59	82.56	26.30
LEDBAT	5	1.13	83.90	2.97
Muses_DecisionTree	5	49.01	84.61	57.63
Muses_DecisionTreeH0	0	N/A	N/A	N/A
Muses_DecisionTreeR0	0	N/A	N/A	N/A
PCC-Allegro	5	25.79	87.34	2.86
PCC-Expr	5	11.62	78.16	17.52
QUIC Cubic	5	1.94	80.86	1.75
SCReAM	5	0.12	82.30	2.69
Sprout	5	1.37	81.83	4.45
TaoVA-100x	5	9.02	81.33	17.69
TCP Vegas	0	N/A	N/A	N/A
Verus	5	30.40	91.51	86.37
PCC-Vivace	5	28.24	87.44	2.66
WebRTC media	5	0.51	83.94	0.31

Run 1: Statistics of TCP BBR

Start at: 2019-07-11 18:50:24

End at: 2019-07-11 18:50:54

Local clock offset: -7.229 ms

Remote clock offset: -5.83 ms

Run 1: Report of TCP BBR — Data Link

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Run 2: Statistics of TCP BBR

Start at: 2019-07-11 19:18:17
End at: 2019-07-11 19:18:47
Local clock offset: -6.38 ms
Remote clock offset: -6.316 ms

Run 2: Report of TCP BBR — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of TCP BBR

Start at: 2019-07-11 19:45:58

End at: 2019-07-11 19:46:28

Local clock offset: -7.14 ms

Remote clock offset: -8.62 ms

Run 3: Report of TCP BBR — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of TCP BBR

Start at: 2019-07-11 20:13:46

End at: 2019-07-11 20:14:16

Local clock offset: -7.736 ms

Remote clock offset: -8.772 ms

Run 4: Report of TCP BBR — Data Link

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Figure is missing

Run 5: Statistics of TCP BBR

Start at: 2019-07-11 20:42:05

End at: 2019-07-11 20:42:35

Local clock offset: -6.92 ms

Remote clock offset: -9.062 ms

Run 5: Report of TCP BBR — Data Link

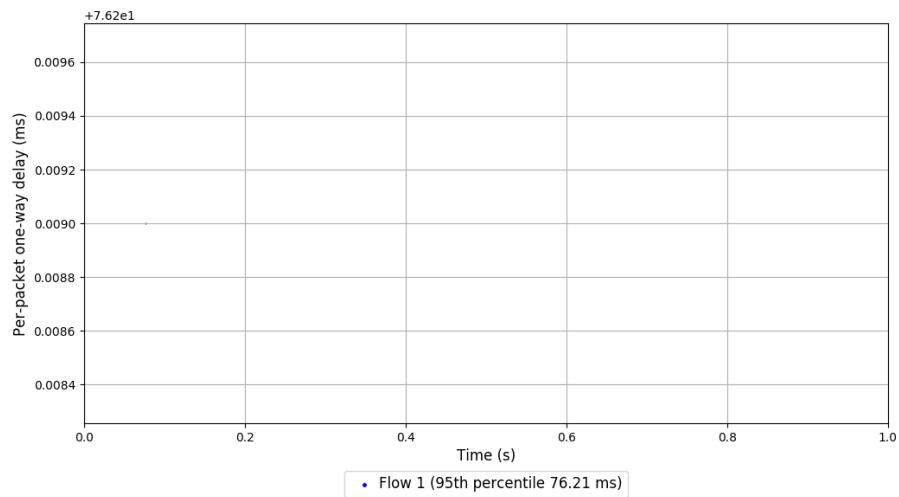
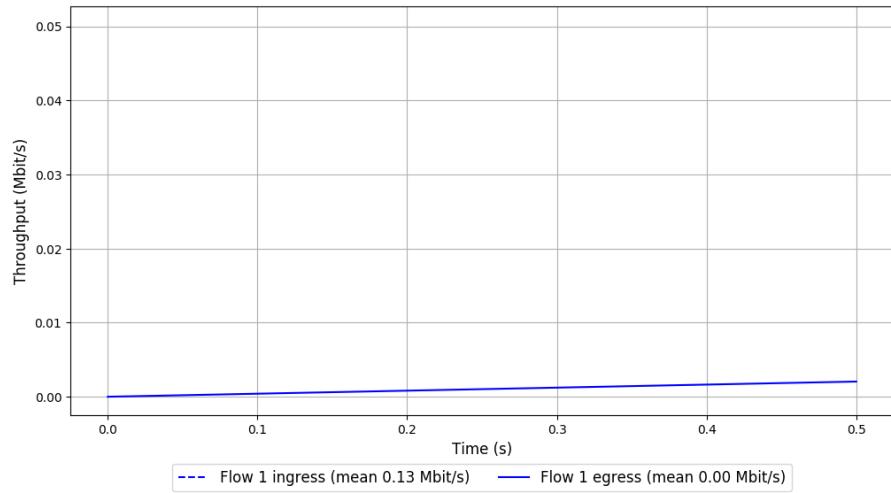
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Run 1: Statistics of Copa

Start at: 2019-07-11 18:34:01
End at: 2019-07-11 18:34:31
Local clock offset: -6.129 ms
Remote clock offset: -5.496 ms

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

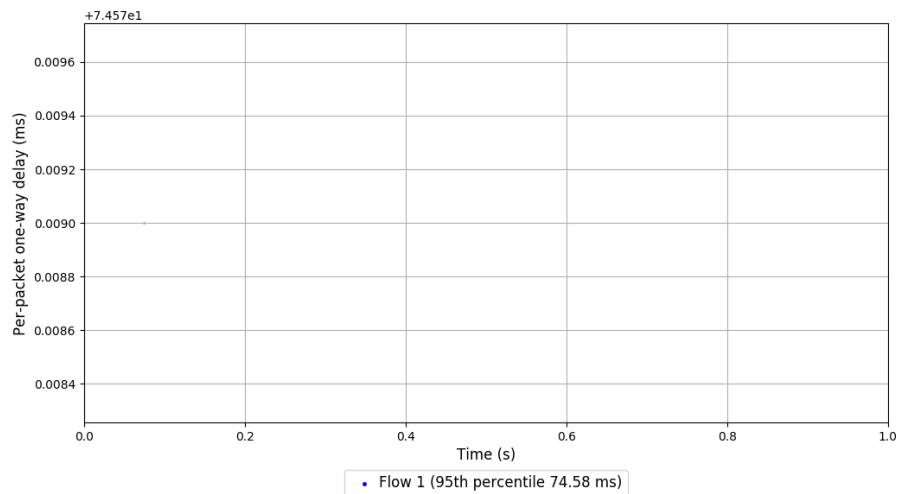
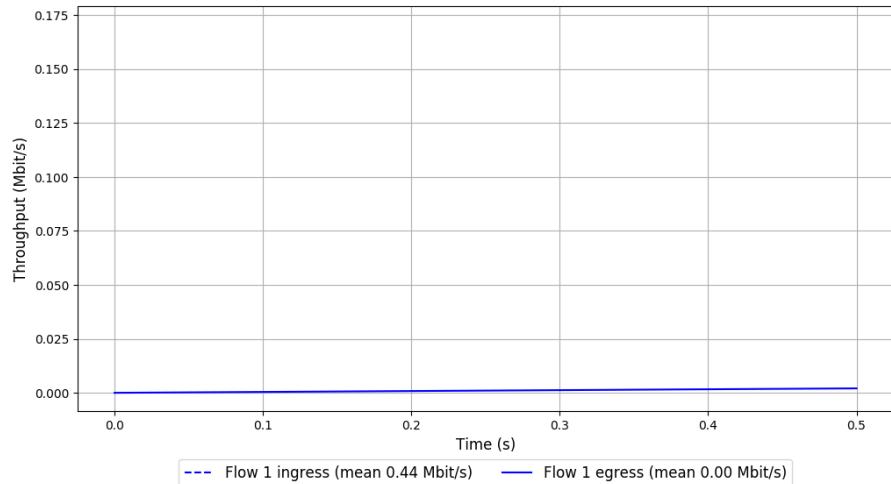
Start at: 2019-07-11 19:02:00

End at: 2019-07-11 19:02:30

Local clock offset: -6.68 ms

Remote clock offset: -7.934 ms

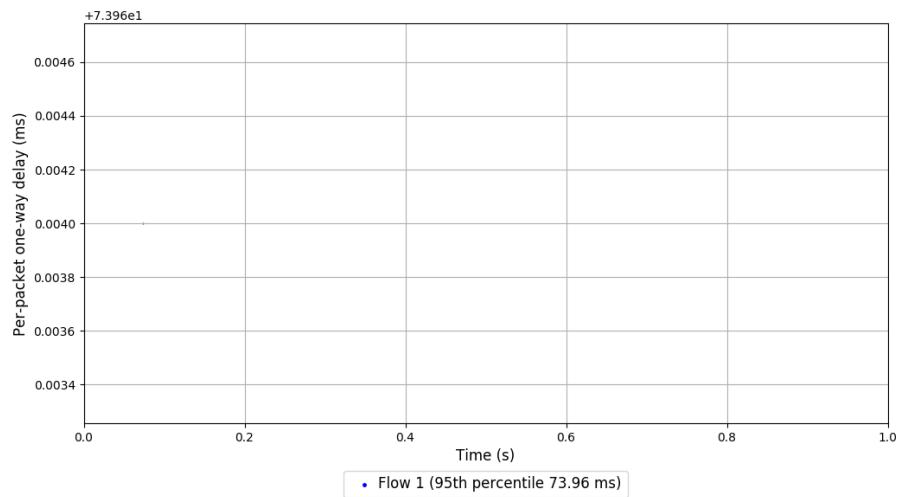
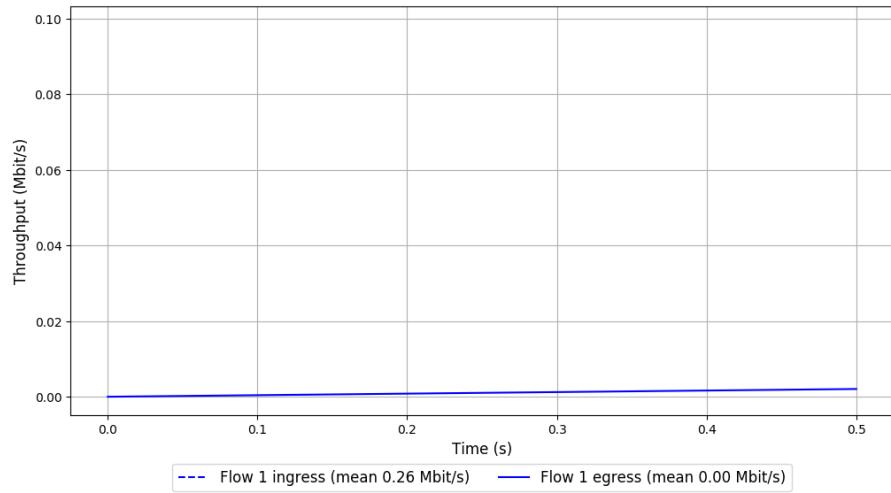
Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-07-11 19:29:43
End at: 2019-07-11 19:30:13
Local clock offset: -7.86 ms
Remote clock offset: -7.892 ms

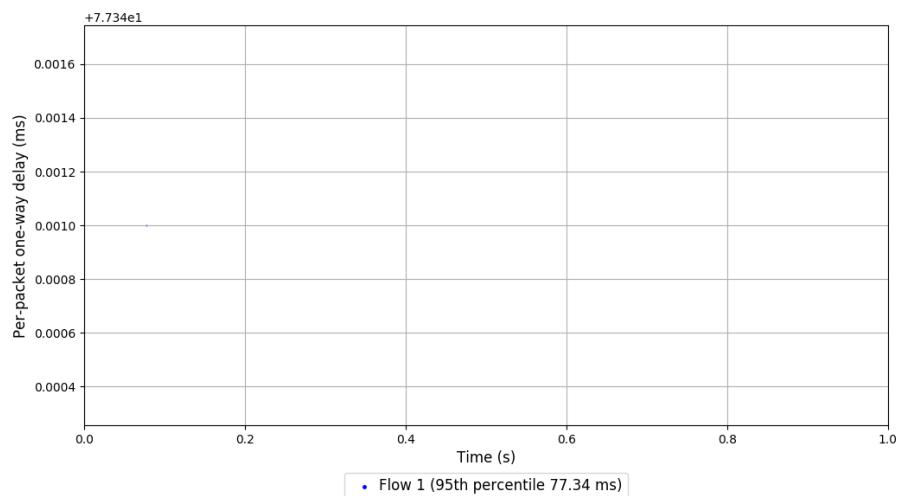
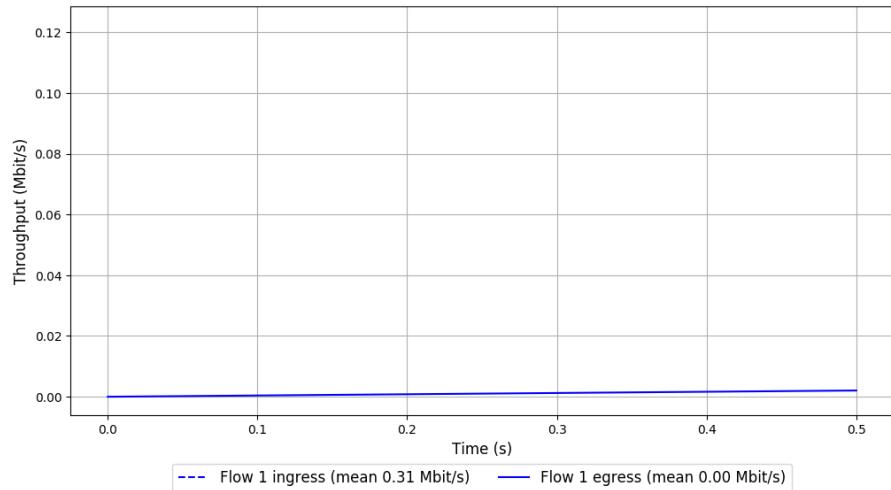
Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-07-11 19:57:30
End at: 2019-07-11 19:58:00
Local clock offset: -7.431 ms
Remote clock offset: -7.726 ms

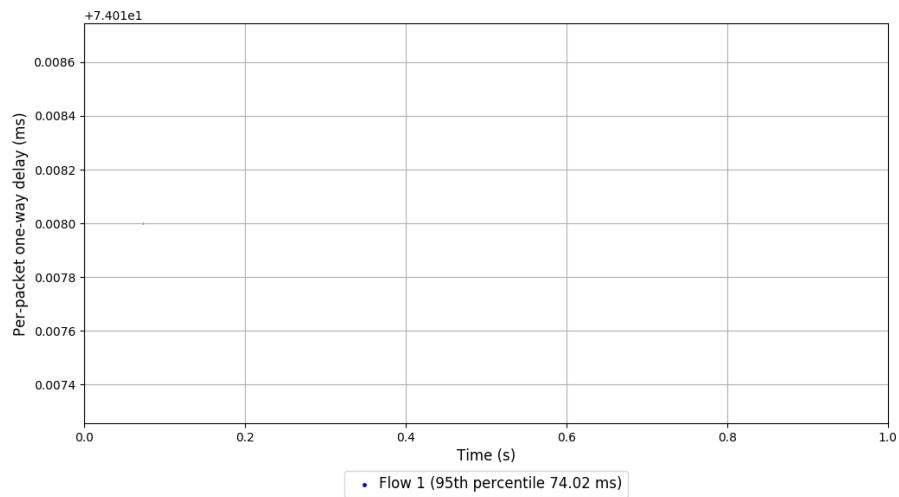
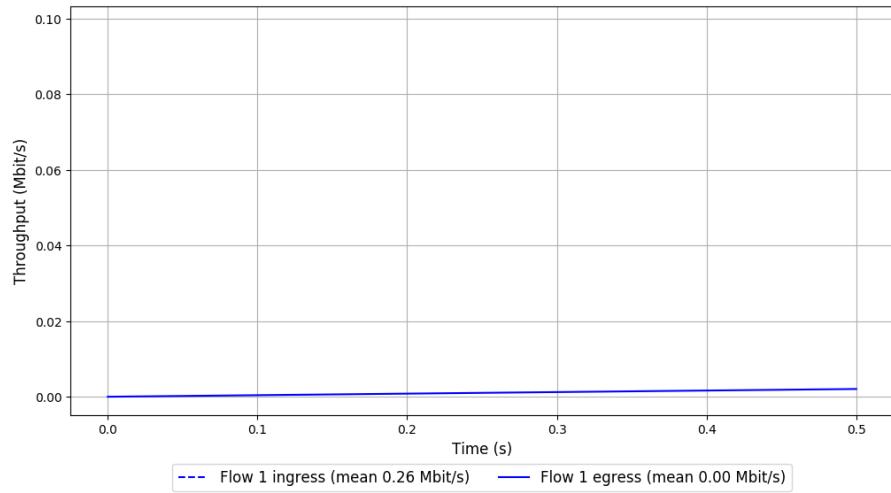
Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-07-11 20:25:11
End at: 2019-07-11 20:25:41
Local clock offset: -7.297 ms
Remote clock offset: -9.039 ms

Run 5: Report of Copa — Data Link

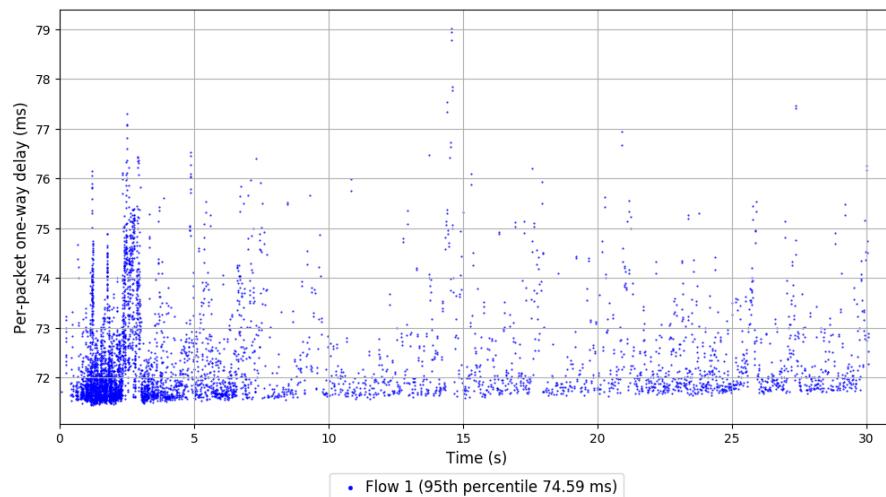
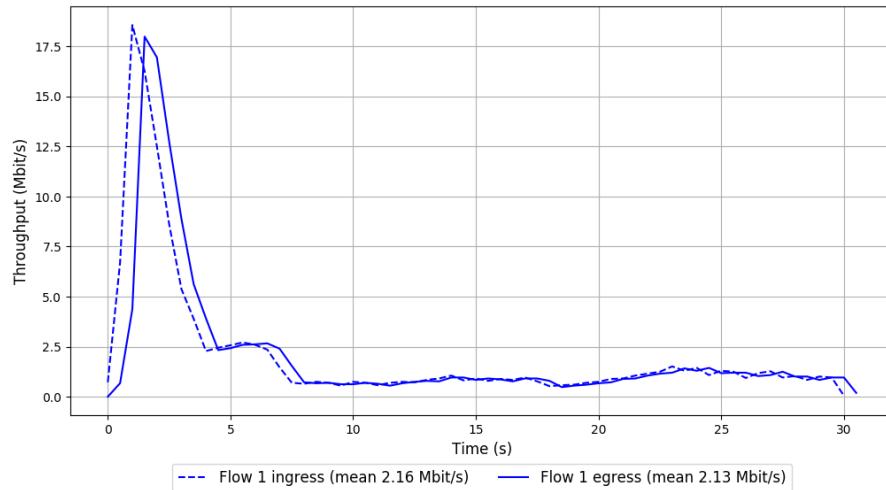


Run 1: Statistics of TCP Cubic

```
Start at: 2019-07-11 18:47:00
End at: 2019-07-11 18:47:30
Local clock offset: -7.081 ms
Remote clock offset: -7.182 ms

# Below is generated by plot.py at 2019-07-11 20:51:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 74.591 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 74.591 ms
Loss rate: 1.33%
```

Run 1: Report of TCP Cubic — Data Link

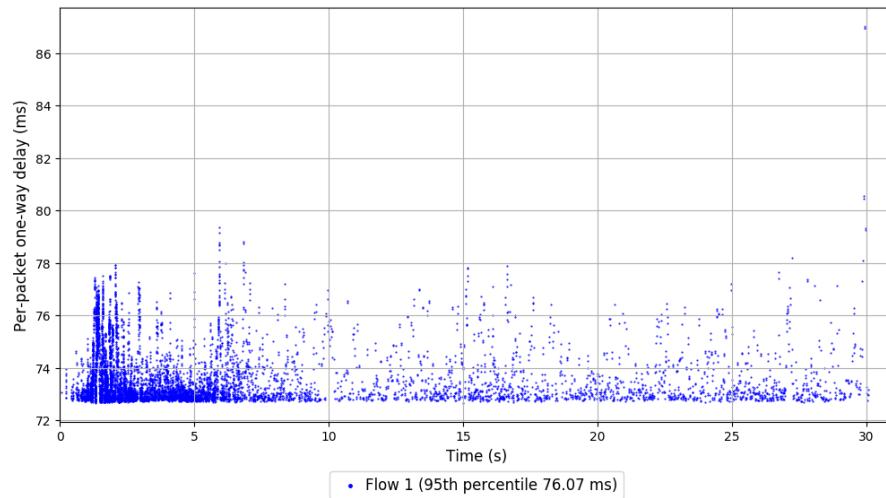
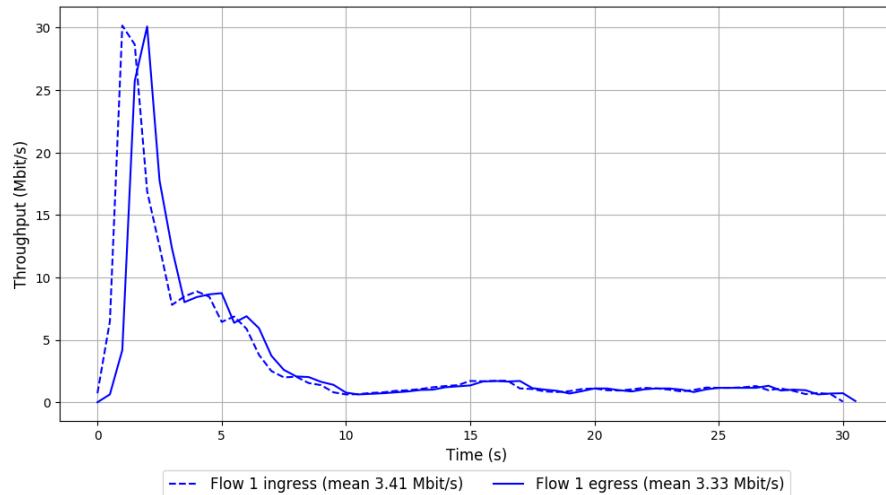


Run 2: Statistics of TCP Cubic

```
Start at: 2019-07-11 19:14:53
End at: 2019-07-11 19:15:23
Local clock offset: -6.262 ms
Remote clock offset: -7.327 ms

# Below is generated by plot.py at 2019-07-11 20:51:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.33 Mbit/s
95th percentile per-packet one-way delay: 76.066 ms
Loss rate: 2.33%
-- Flow 1:
Average throughput: 3.33 Mbit/s
95th percentile per-packet one-way delay: 76.066 ms
Loss rate: 2.33%
```

Run 2: Report of TCP Cubic — Data Link

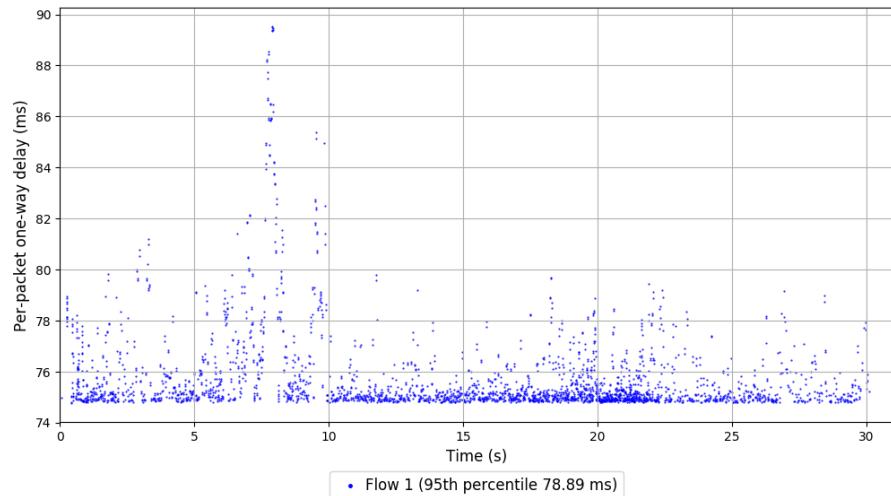
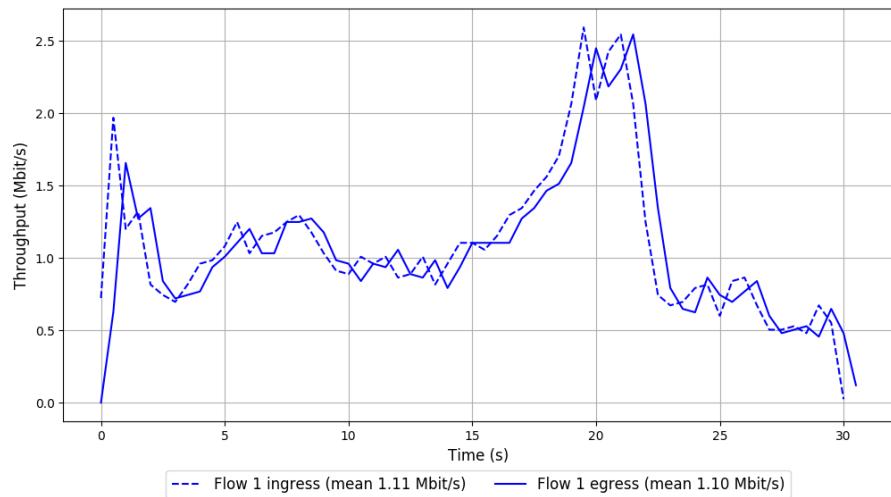


Run 3: Statistics of TCP Cubic

```
Start at: 2019-07-11 19:42:33
End at: 2019-07-11 19:43:03
Local clock offset: -6.381 ms
Remote clock offset: -6.677 ms

# Below is generated by plot.py at 2019-07-11 20:51:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.10 Mbit/s
95th percentile per-packet one-way delay: 78.891 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 1.10 Mbit/s
95th percentile per-packet one-way delay: 78.891 ms
Loss rate: 1.40%
```

Run 3: Report of TCP Cubic — Data Link

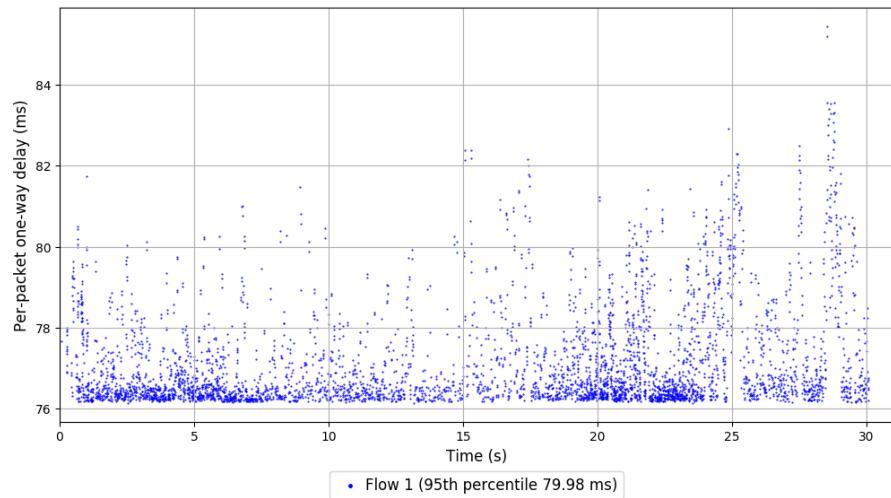
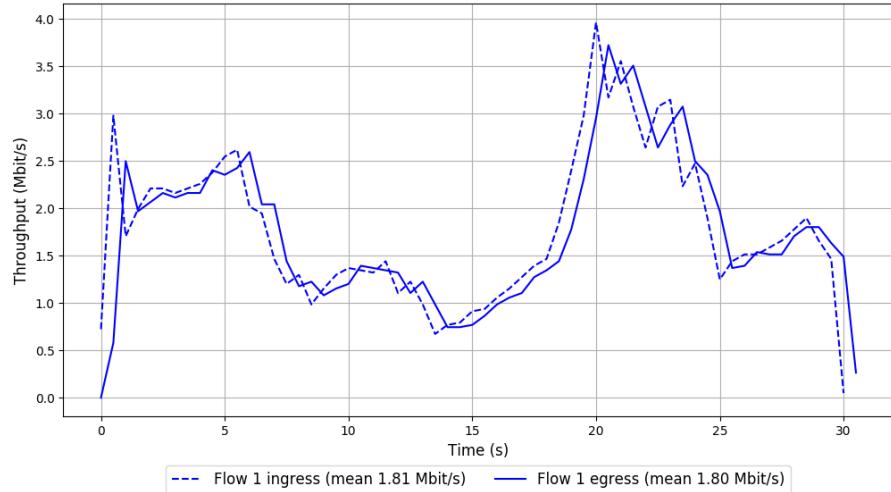


Run 4: Statistics of TCP Cubic

```
Start at: 2019-07-11 20:10:21
End at: 2019-07-11 20:10:51
Local clock offset: -6.862 ms
Remote clock offset: -7.881 ms

# Below is generated by plot.py at 2019-07-11 20:51:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 79.983 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 79.983 ms
Loss rate: 0.75%
```

Run 4: Report of TCP Cubic — Data Link

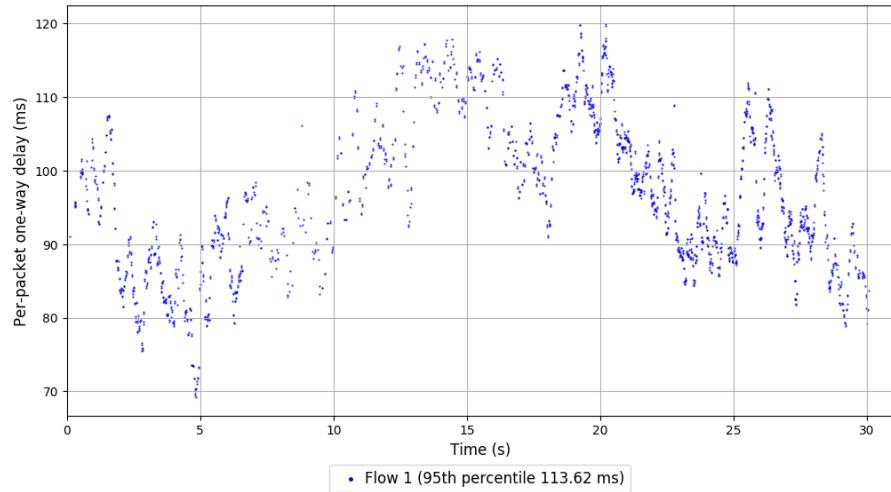
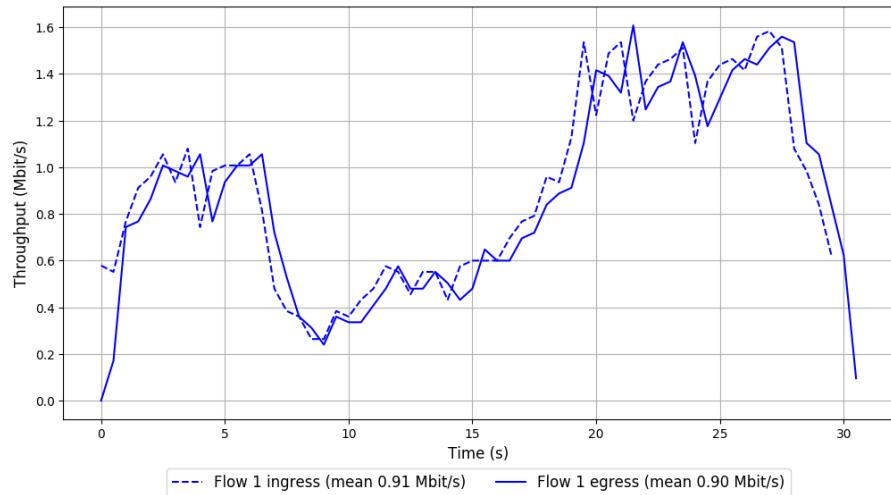


Run 5: Statistics of TCP Cubic

```
Start at: 2019-07-11 20:38:34
End at: 2019-07-11 20:39:04
Local clock offset: -7.024 ms
Remote clock offset: -24.29 ms

# Below is generated by plot.py at 2019-07-11 20:51:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 113.619 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 113.619 ms
Loss rate: 1.32%
```

Run 5: Report of TCP Cubic — Data Link

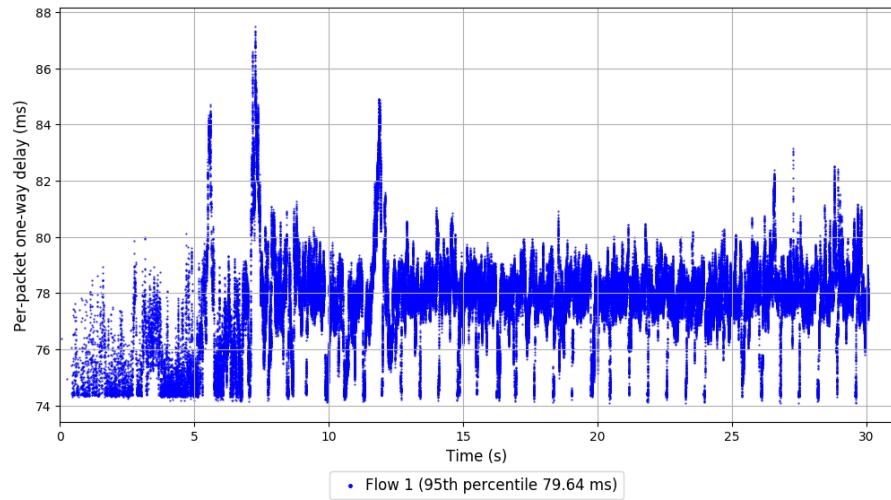
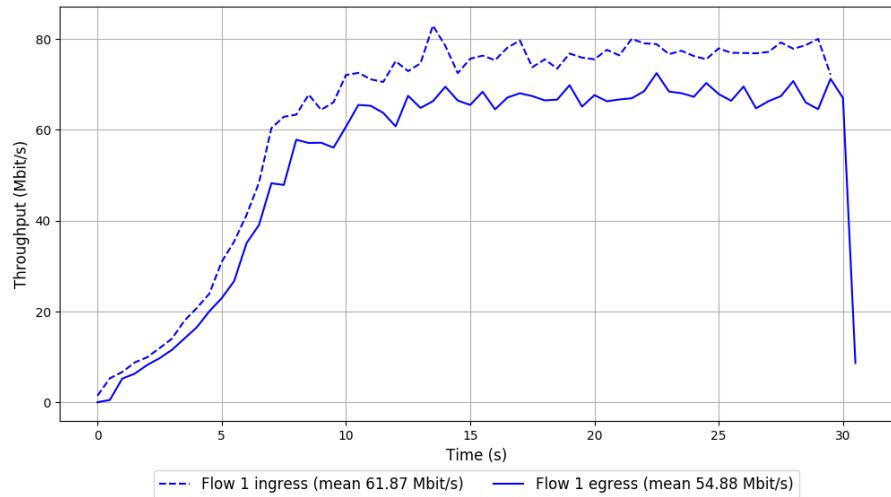


Run 1: Statistics of FillP

```
Start at: 2019-07-11 18:42:19
End at: 2019-07-11 18:42:49
Local clock offset: -6.924 ms
Remote clock offset: -5.603 ms

# Below is generated by plot.py at 2019-07-11 20:52:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.88 Mbit/s
95th percentile per-packet one-way delay: 79.643 ms
Loss rate: 11.30%
-- Flow 1:
Average throughput: 54.88 Mbit/s
95th percentile per-packet one-way delay: 79.643 ms
Loss rate: 11.30%
```

Run 1: Report of FillP — Data Link

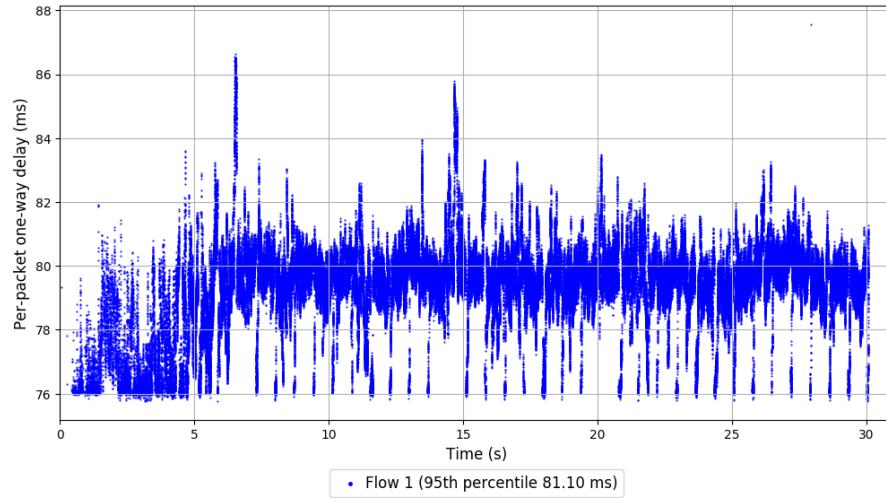
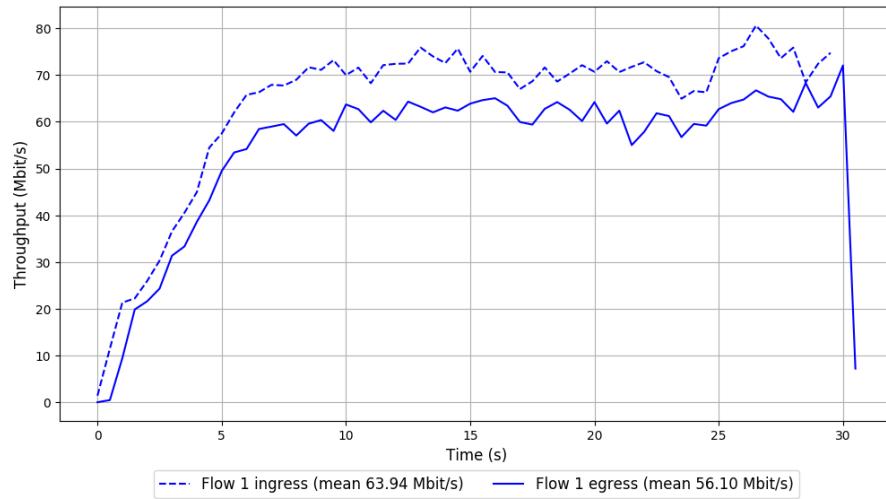


Run 2: Statistics of FillP

```
Start at: 2019-07-11 19:10:11
End at: 2019-07-11 19:10:41
Local clock offset: -6.818 ms
Remote clock offset: -6.135 ms

# Below is generated by plot.py at 2019-07-11 20:52:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.10 Mbit/s
95th percentile per-packet one-way delay: 81.098 ms
Loss rate: 12.27%
-- Flow 1:
Average throughput: 56.10 Mbit/s
95th percentile per-packet one-way delay: 81.098 ms
Loss rate: 12.27%
```

Run 2: Report of FillP — Data Link

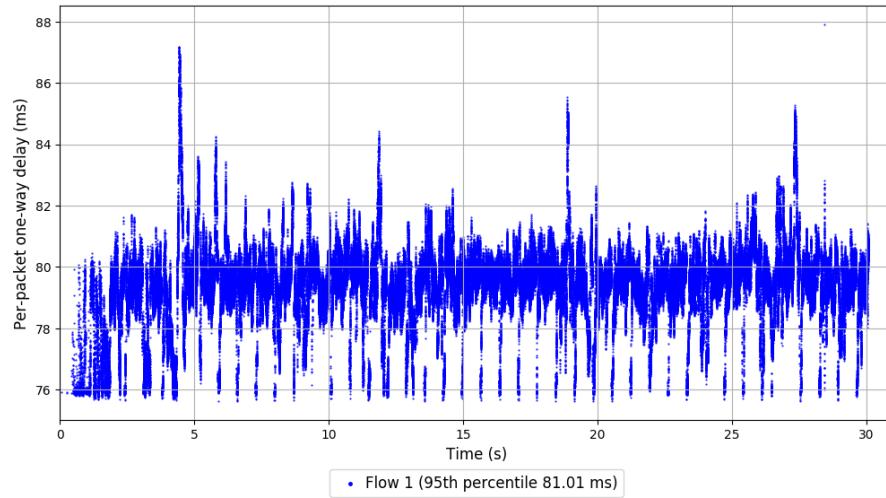
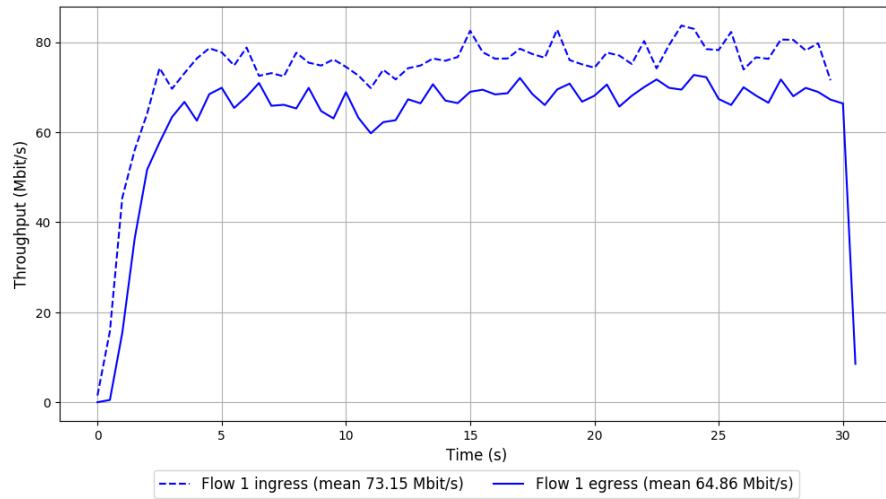


Run 3: Statistics of FillP

```
Start at: 2019-07-11 19:37:51
End at: 2019-07-11 19:38:21
Local clock offset: -7.396 ms
Remote clock offset: -6.896 ms

# Below is generated by plot.py at 2019-07-11 20:52:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.86 Mbit/s
95th percentile per-packet one-way delay: 81.014 ms
Loss rate: 11.31%
-- Flow 1:
Average throughput: 64.86 Mbit/s
95th percentile per-packet one-way delay: 81.014 ms
Loss rate: 11.31%
```

Run 3: Report of FillP — Data Link

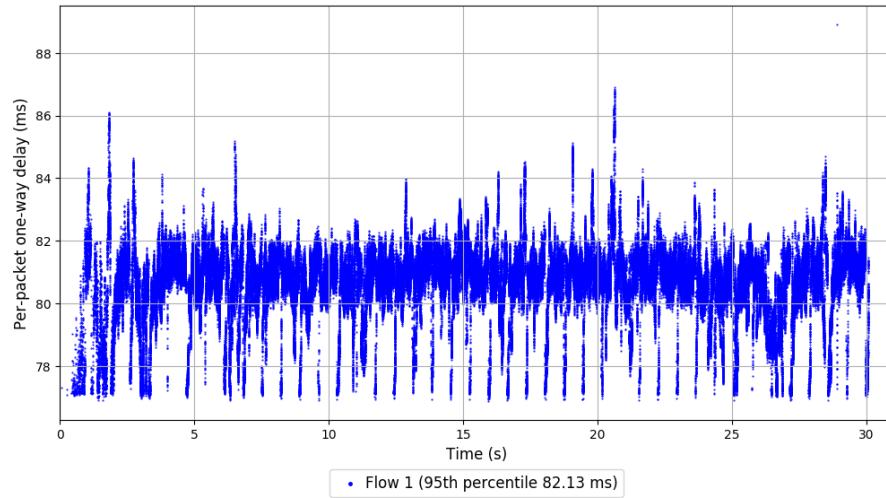
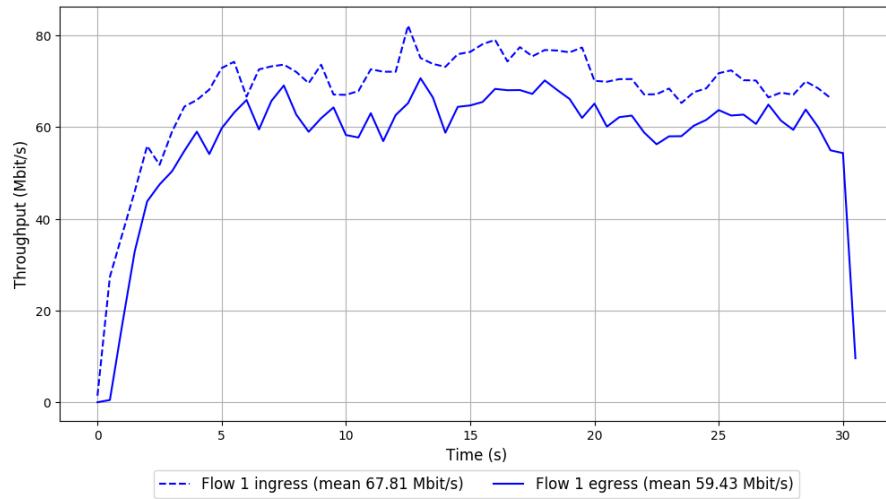


Run 4: Statistics of FillP

```
Start at: 2019-07-11 20:05:40
End at: 2019-07-11 20:06:10
Local clock offset: -7.756 ms
Remote clock offset: -7.813 ms

# Below is generated by plot.py at 2019-07-11 20:52:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.43 Mbit/s
95th percentile per-packet one-way delay: 82.130 ms
Loss rate: 12.36%
-- Flow 1:
Average throughput: 59.43 Mbit/s
95th percentile per-packet one-way delay: 82.130 ms
Loss rate: 12.36%
```

Run 4: Report of FillP — Data Link

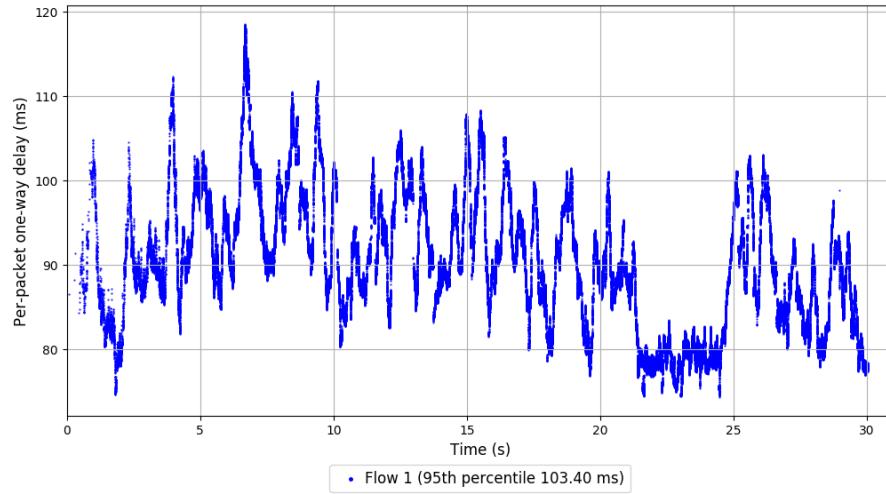
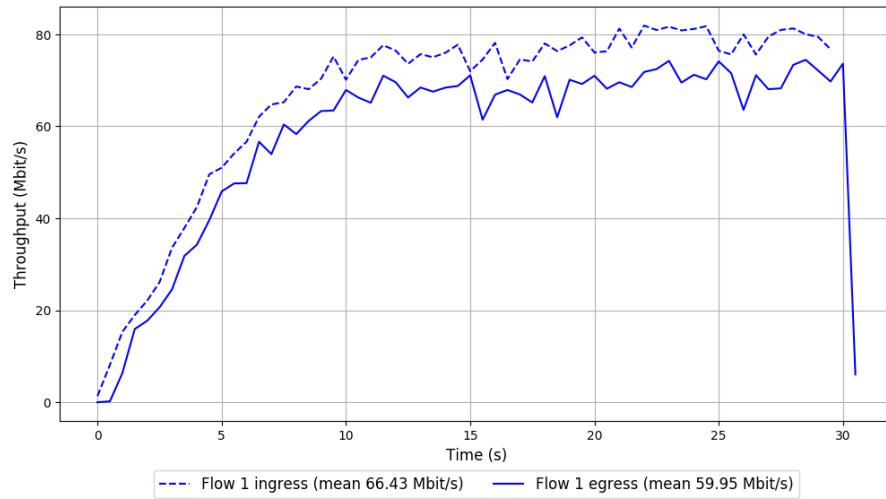


Run 5: Statistics of FillP

```
Start at: 2019-07-11 20:33:55
End at: 2019-07-11 20:34:25
Local clock offset: -7.876 ms
Remote clock offset: -8.846 ms

# Below is generated by plot.py at 2019-07-11 20:52:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.95 Mbit/s
95th percentile per-packet one-way delay: 103.397 ms
Loss rate: 9.79%
-- Flow 1:
Average throughput: 59.95 Mbit/s
95th percentile per-packet one-way delay: 103.397 ms
Loss rate: 9.79%
```

Run 5: Report of FillP — Data Link

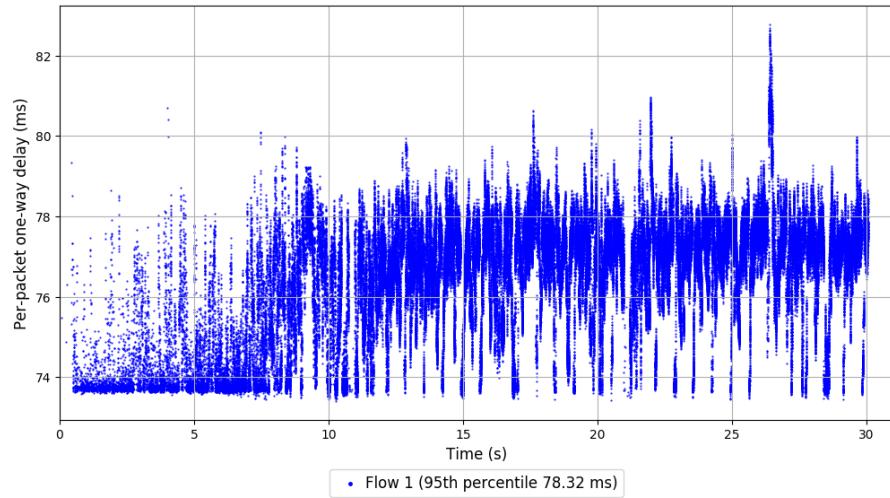
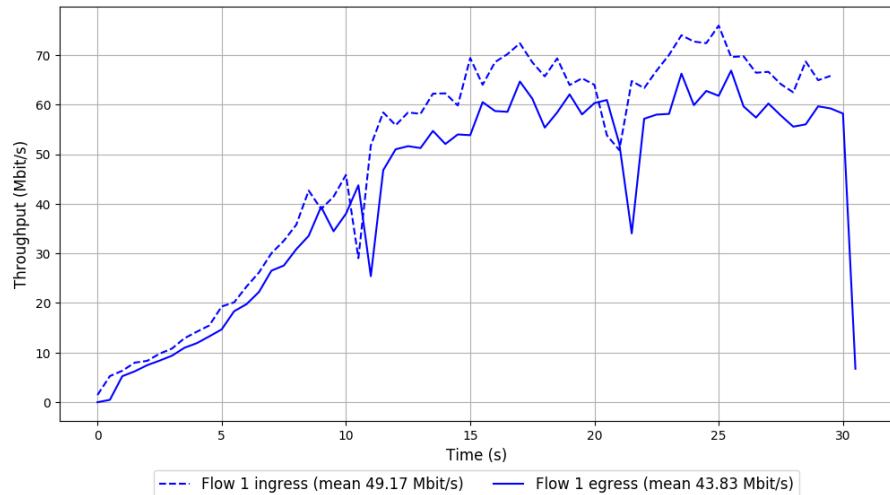


Run 1: Statistics of FillP-Sheep

```
Start at: 2019-07-11 18:39:58
End at: 2019-07-11 18:40:28
Local clock offset: -6.73 ms
Remote clock offset: -5.624 ms

# Below is generated by plot.py at 2019-07-11 20:52:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.83 Mbit/s
95th percentile per-packet one-way delay: 78.322 ms
Loss rate: 10.84%
-- Flow 1:
Average throughput: 43.83 Mbit/s
95th percentile per-packet one-way delay: 78.322 ms
Loss rate: 10.84%
```

Run 1: Report of FillP-Sheep — Data Link

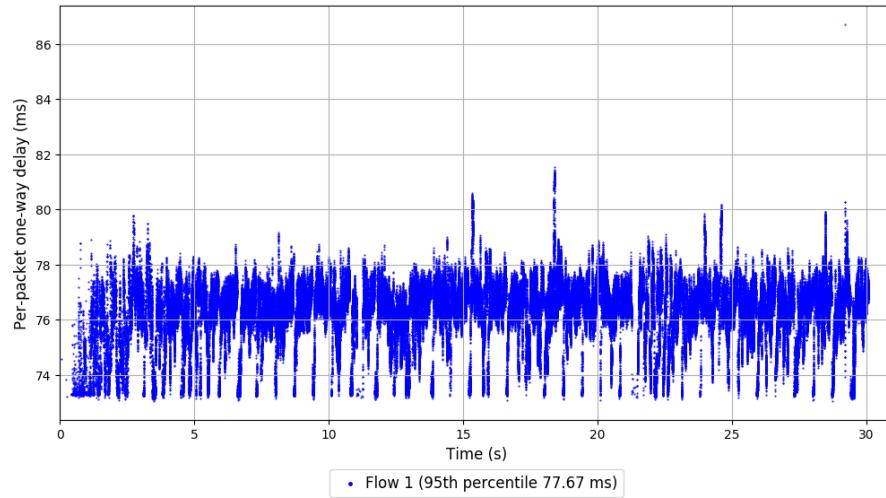
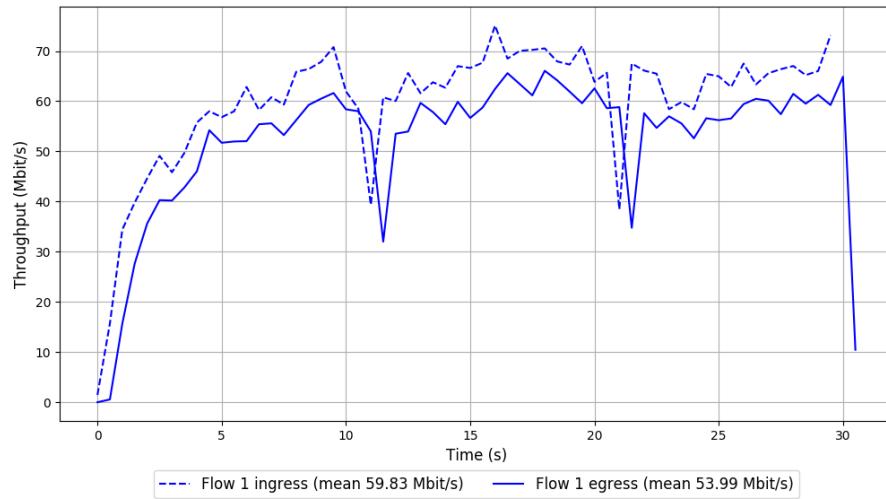


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-07-11 19:07:50
End at: 2019-07-11 19:08:20
Local clock offset: -6.75 ms
Remote clock offset: -8.067 ms

# Below is generated by plot.py at 2019-07-11 20:52:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.99 Mbit/s
95th percentile per-packet one-way delay: 77.675 ms
Loss rate: 9.75%
-- Flow 1:
Average throughput: 53.99 Mbit/s
95th percentile per-packet one-way delay: 77.675 ms
Loss rate: 9.75%
```

Run 2: Report of FillP-Sheep — Data Link

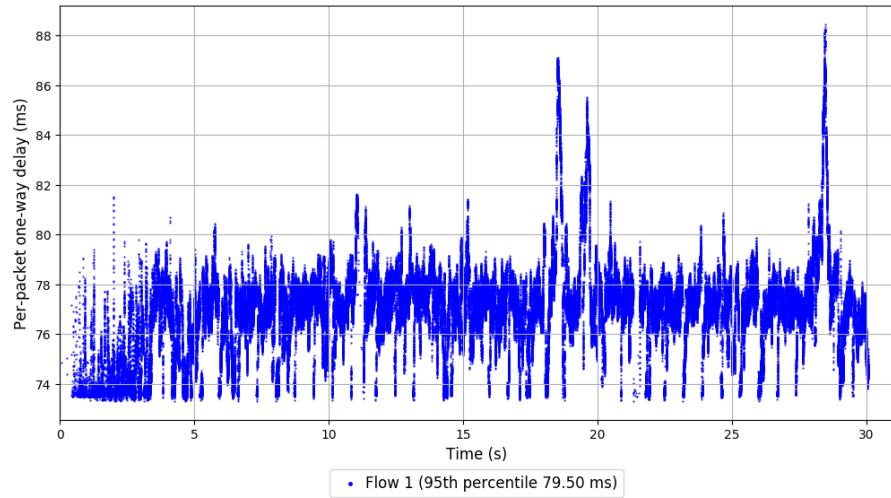
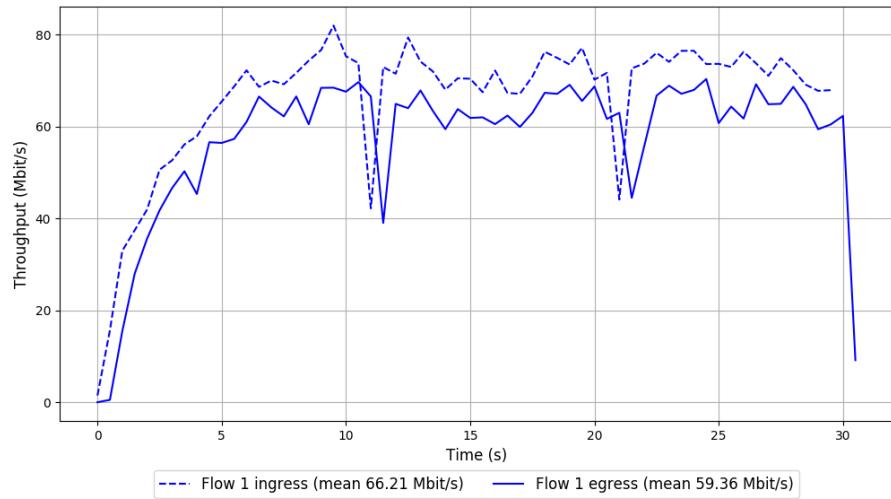


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-07-11 19:35:30
End at: 2019-07-11 19:36:00
Local clock offset: -6.676 ms
Remote clock offset: -7.728 ms

# Below is generated by plot.py at 2019-07-11 20:52:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.36 Mbit/s
95th percentile per-packet one-way delay: 79.496 ms
Loss rate: 10.36%
-- Flow 1:
Average throughput: 59.36 Mbit/s
95th percentile per-packet one-way delay: 79.496 ms
Loss rate: 10.36%
```

Run 3: Report of FillP-Sheep — Data Link

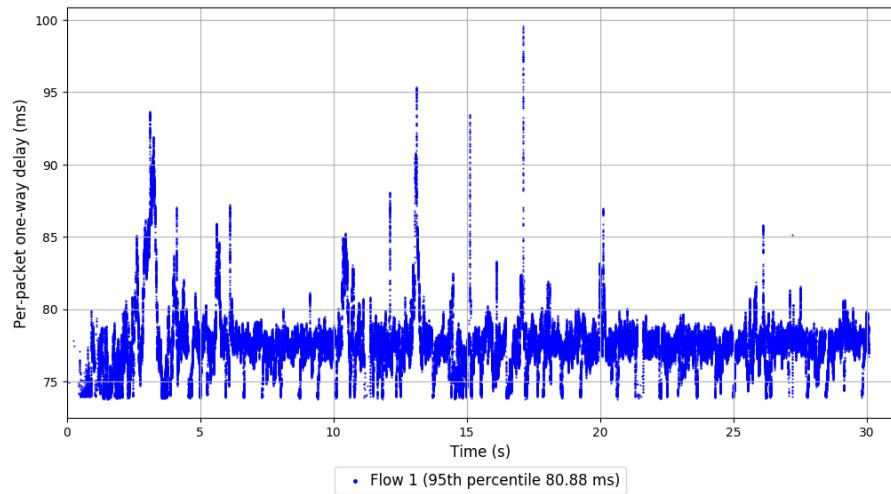
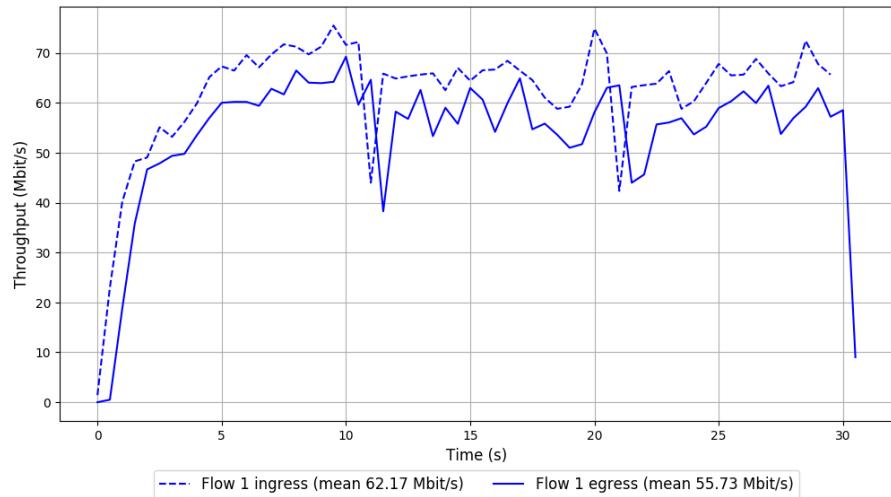


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-07-11 20:03:19
End at: 2019-07-11 20:03:49
Local clock offset: -7.808 ms
Remote clock offset: -7.659 ms

# Below is generated by plot.py at 2019-07-11 20:52:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.73 Mbit/s
95th percentile per-packet one-way delay: 80.880 ms
Loss rate: 10.36%
-- Flow 1:
Average throughput: 55.73 Mbit/s
95th percentile per-packet one-way delay: 80.880 ms
Loss rate: 10.36%
```

Run 4: Report of FillP-Sheep — Data Link

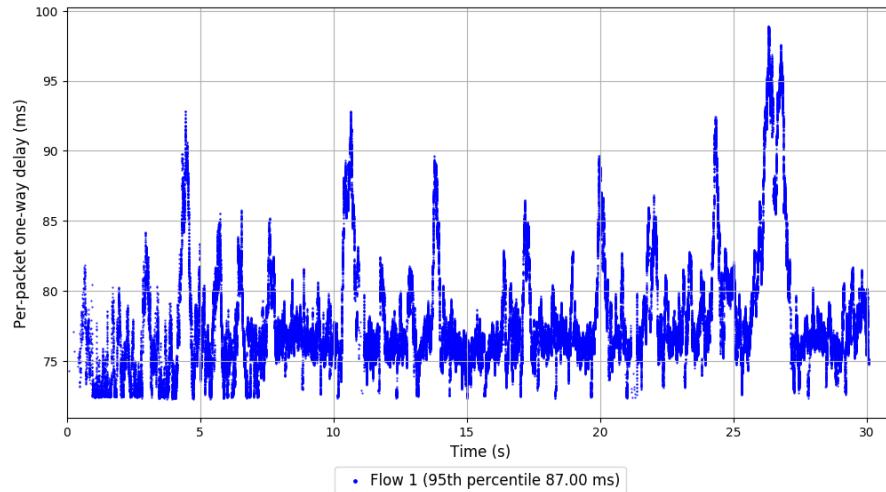
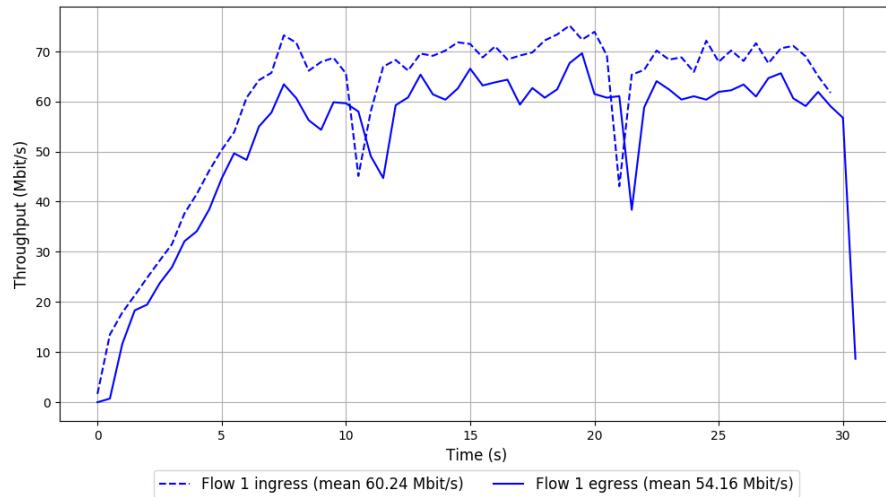


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-07-11 20:31:33
End at: 2019-07-11 20:32:03
Local clock offset: -7.525 ms
Remote clock offset: -10.515 ms

# Below is generated by plot.py at 2019-07-11 20:53:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.16 Mbit/s
95th percentile per-packet one-way delay: 86.998 ms
Loss rate: 10.08%
-- Flow 1:
Average throughput: 54.16 Mbit/s
95th percentile per-packet one-way delay: 86.998 ms
Loss rate: 10.08%
```

Run 5: Report of FillP-Sheep — Data Link

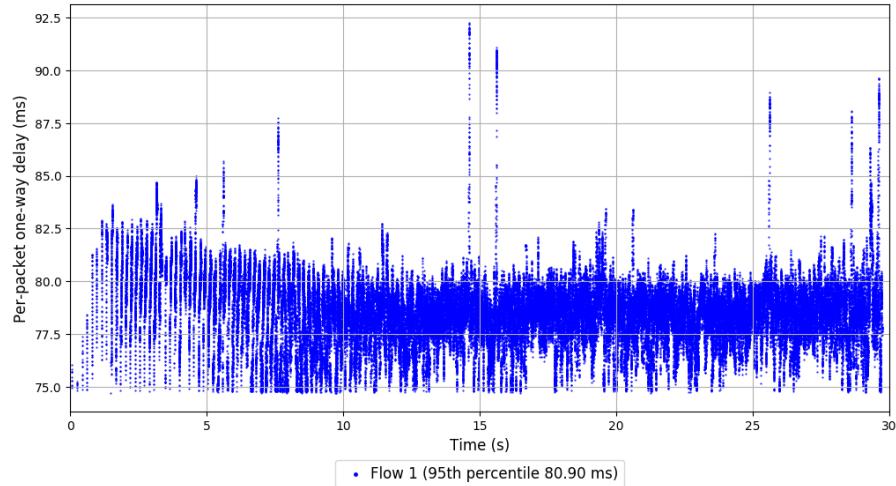
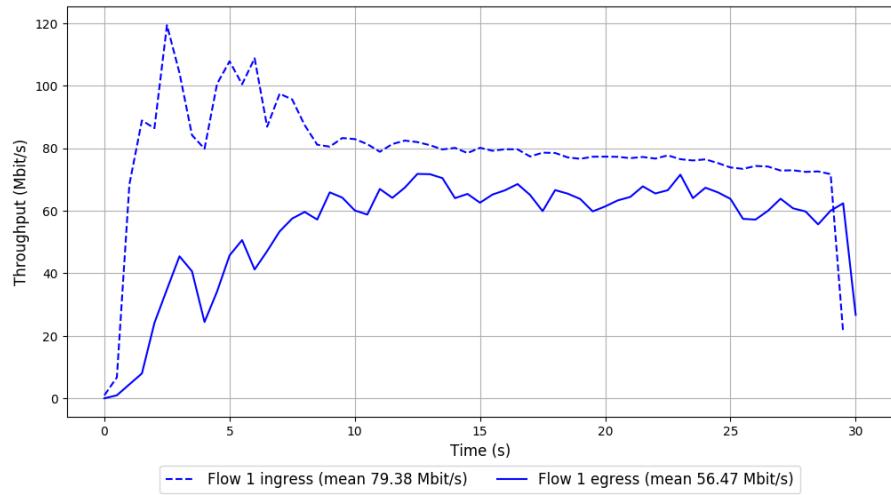


Run 1: Statistics of Indigo

```
Start at: 2019-07-11 18:56:11
End at: 2019-07-11 18:56:41
Local clock offset: -6.95 ms
Remote clock offset: -6.078 ms

# Below is generated by plot.py at 2019-07-11 20:53:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.47 Mbit/s
95th percentile per-packet one-way delay: 80.900 ms
Loss rate: 28.86%
-- Flow 1:
Average throughput: 56.47 Mbit/s
95th percentile per-packet one-way delay: 80.900 ms
Loss rate: 28.86%
```

Run 1: Report of Indigo — Data Link

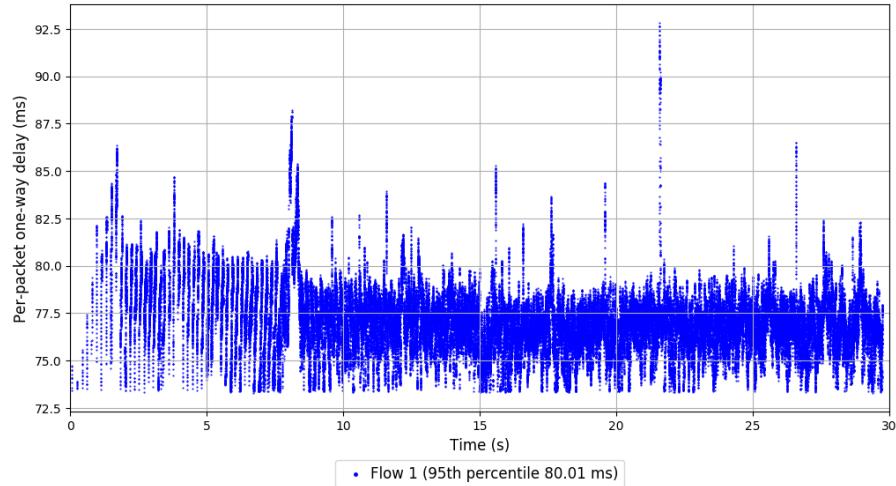
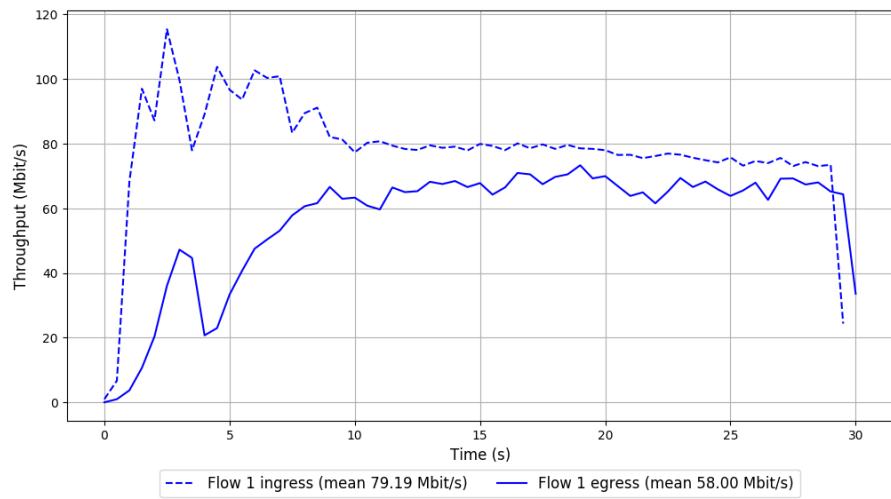


Run 2: Statistics of Indigo

```
Start at: 2019-07-11 19:23:59
End at: 2019-07-11 19:24:29
Local clock offset: -7.438 ms
Remote clock offset: -6.533 ms

# Below is generated by plot.py at 2019-07-11 20:53:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.00 Mbit/s
95th percentile per-packet one-way delay: 80.013 ms
Loss rate: 26.75%
-- Flow 1:
Average throughput: 58.00 Mbit/s
95th percentile per-packet one-way delay: 80.013 ms
Loss rate: 26.75%
```

Run 2: Report of Indigo — Data Link

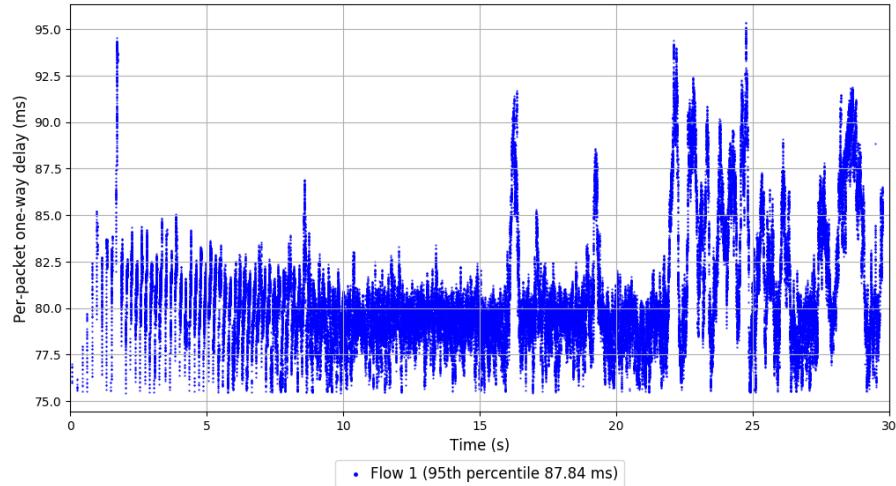
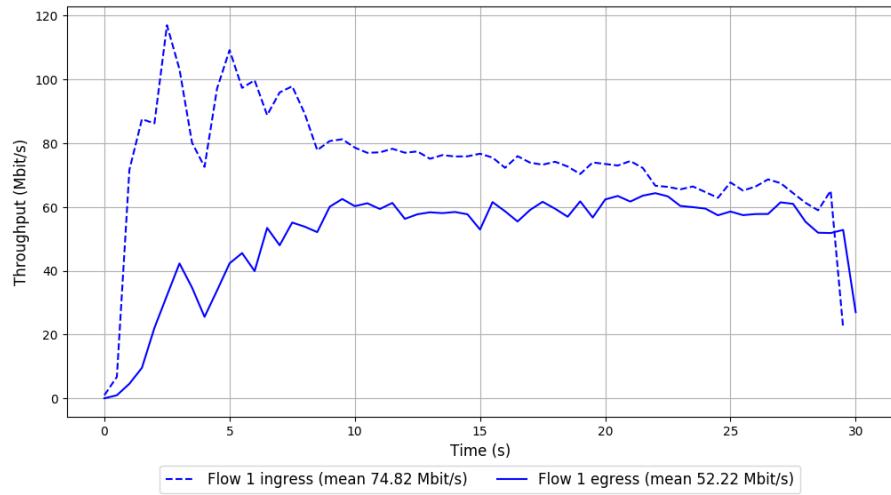


Run 3: Statistics of Indigo

```
Start at: 2019-07-11 19:51:45
End at: 2019-07-11 19:52:15
Local clock offset: -7.257 ms
Remote clock offset: -7.205 ms

# Below is generated by plot.py at 2019-07-11 20:53:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.22 Mbit/s
95th percentile per-packet one-way delay: 87.844 ms
Loss rate: 30.19%
-- Flow 1:
Average throughput: 52.22 Mbit/s
95th percentile per-packet one-way delay: 87.844 ms
Loss rate: 30.19%
```

Run 3: Report of Indigo — Data Link

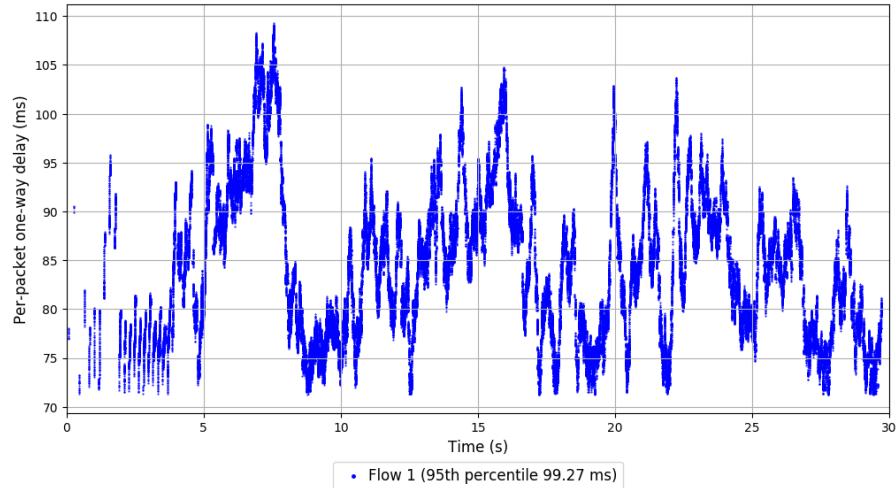
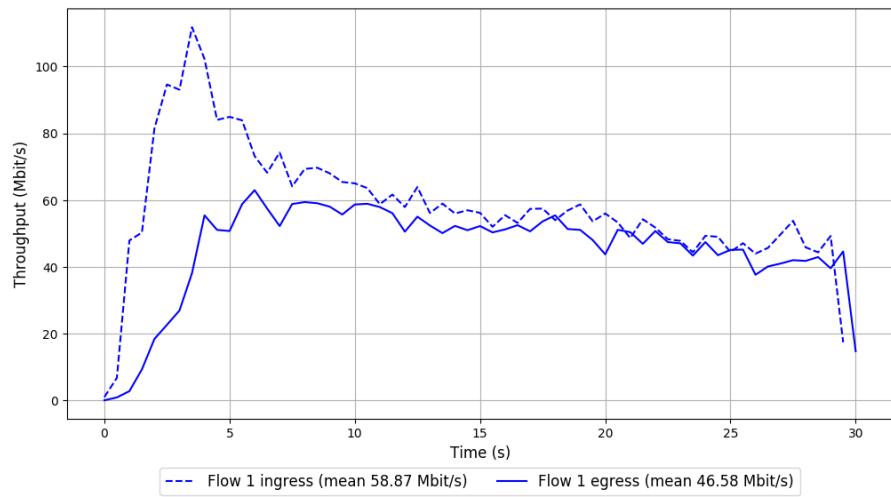


Run 4: Statistics of Indigo

```
Start at: 2019-07-11 20:19:27
End at: 2019-07-11 20:19:57
Local clock offset: -7.145 ms
Remote clock offset: -11.412 ms

# Below is generated by plot.py at 2019-07-11 20:53:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.58 Mbit/s
95th percentile per-packet one-way delay: 99.269 ms
Loss rate: 20.85%
-- Flow 1:
Average throughput: 46.58 Mbit/s
95th percentile per-packet one-way delay: 99.269 ms
Loss rate: 20.85%
```

Run 4: Report of Indigo — Data Link

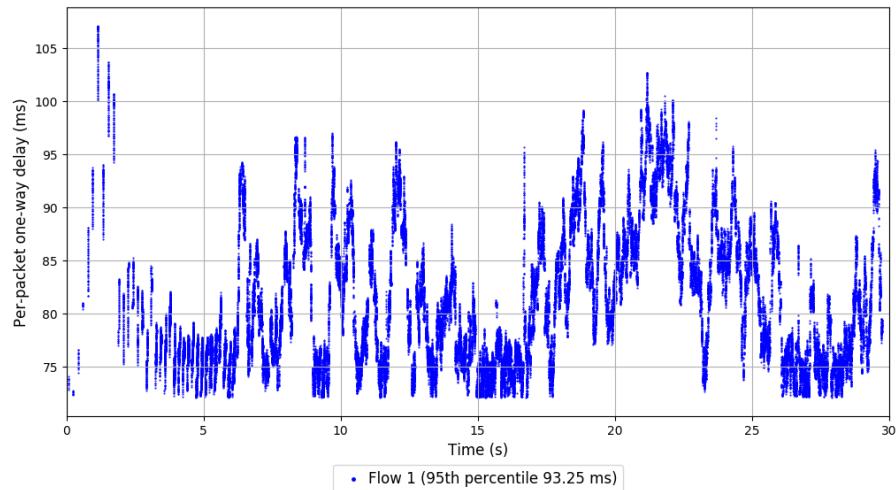
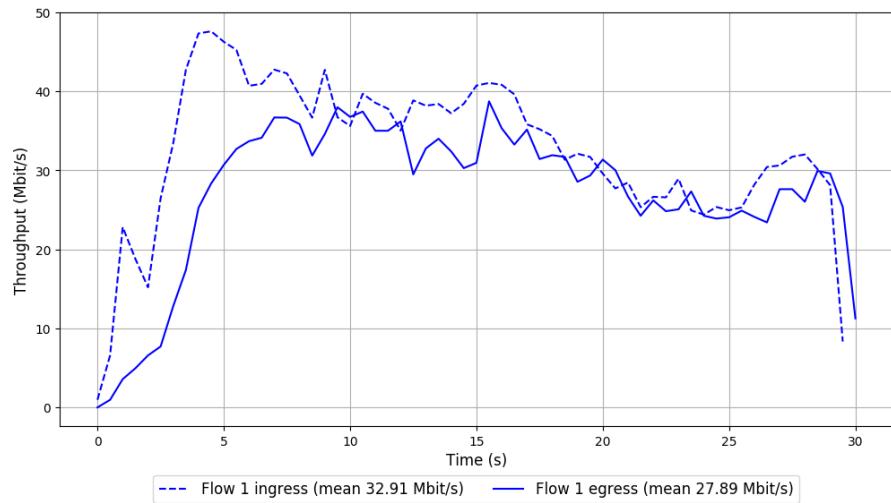


Run 5: Statistics of Indigo

```
Start at: 2019-07-11 20:47:46
End at: 2019-07-11 20:48:16
Local clock offset: -7.155 ms
Remote clock offset: -9.498 ms

# Below is generated by plot.py at 2019-07-11 20:53:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.89 Mbit/s
95th percentile per-packet one-way delay: 93.255 ms
Loss rate: 15.25%
-- Flow 1:
Average throughput: 27.89 Mbit/s
95th percentile per-packet one-way delay: 93.255 ms
Loss rate: 15.25%
```

Run 5: Report of Indigo — Data Link

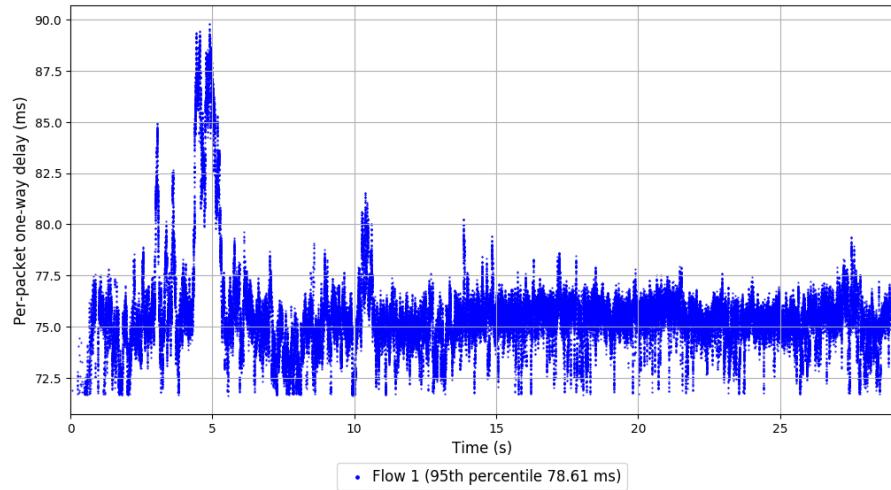
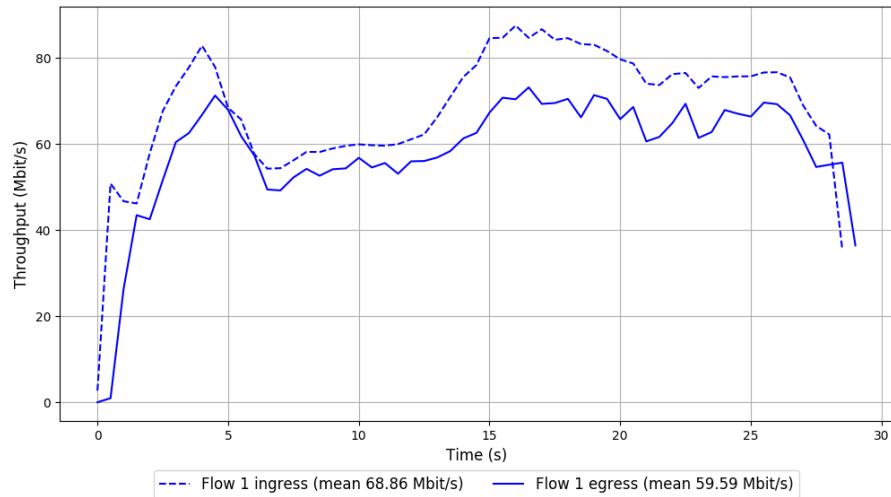


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-07-11 18:51:32
End at: 2019-07-11 18:52:02
Local clock offset: -6.088 ms
Remote clock offset: -7.105 ms

# Below is generated by plot.py at 2019-07-11 20:53:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.59 Mbit/s
95th percentile per-packet one-way delay: 78.608 ms
Loss rate: 13.45%
-- Flow 1:
Average throughput: 59.59 Mbit/s
95th percentile per-packet one-way delay: 78.608 ms
Loss rate: 13.45%
```

Run 1: Report of Indigo-MusesC3 — Data Link

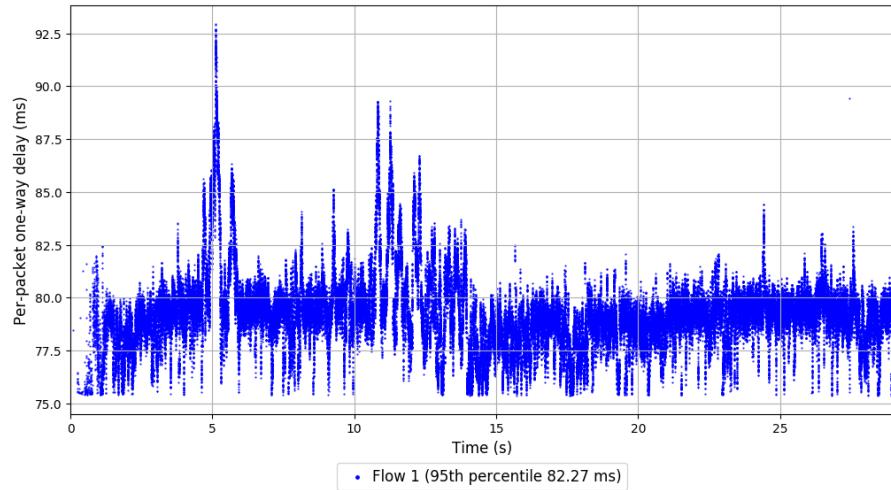
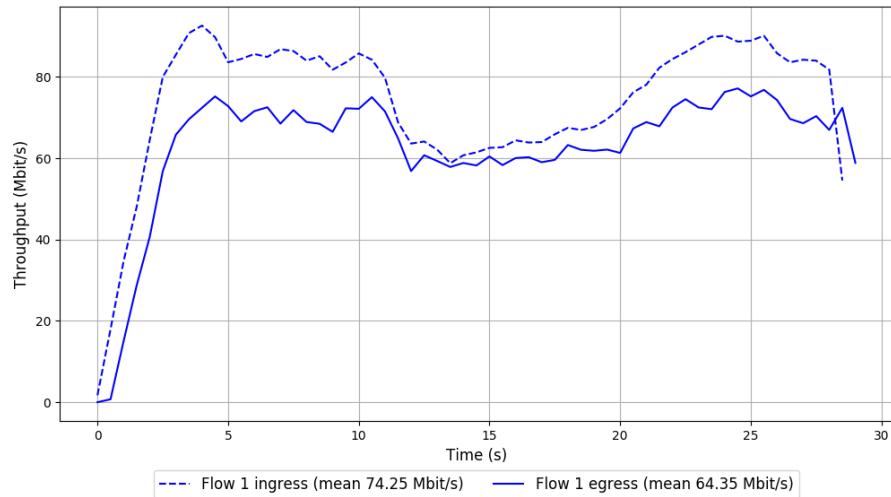


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-07-11 19:19:25
End at: 2019-07-11 19:19:55
Local clock offset: -7.423 ms
Remote clock offset: -6.362 ms

# Below is generated by plot.py at 2019-07-11 20:53:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.35 Mbit/s
95th percentile per-packet one-way delay: 82.273 ms
Loss rate: 13.34%
-- Flow 1:
Average throughput: 64.35 Mbit/s
95th percentile per-packet one-way delay: 82.273 ms
Loss rate: 13.34%
```

Run 2: Report of Indigo-MusesC3 — Data Link

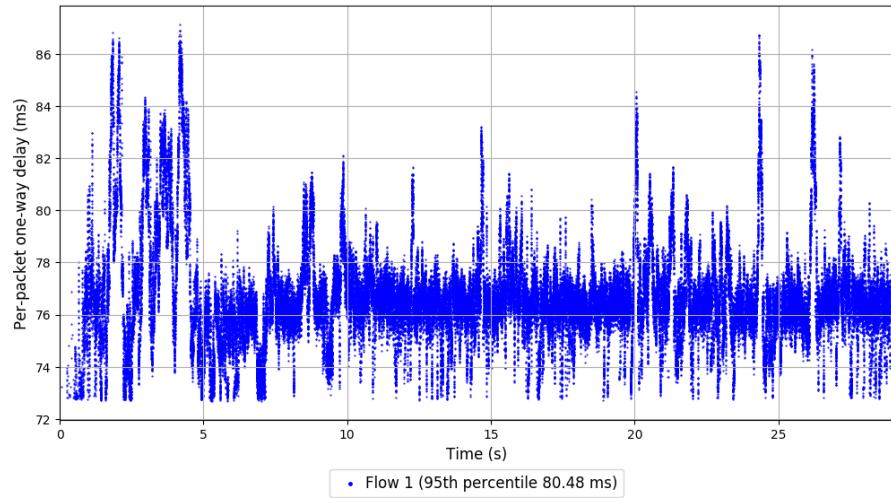
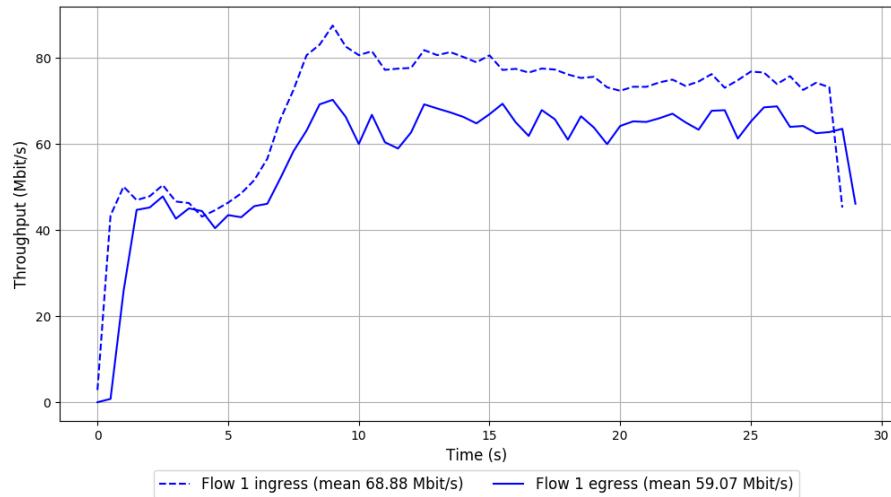


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-07-11 19:47:05
End at: 2019-07-11 19:47:35
Local clock offset: -7.169 ms
Remote clock offset: -8.281 ms

# Below is generated by plot.py at 2019-07-11 20:53:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.07 Mbit/s
95th percentile per-packet one-way delay: 80.476 ms
Loss rate: 14.24%
-- Flow 1:
Average throughput: 59.07 Mbit/s
95th percentile per-packet one-way delay: 80.476 ms
Loss rate: 14.24%
```

Run 3: Report of Indigo-MusesC3 — Data Link

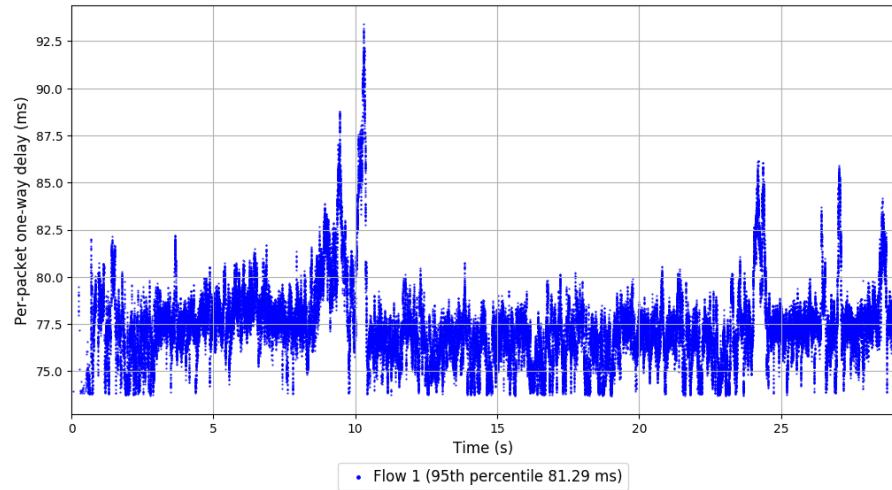
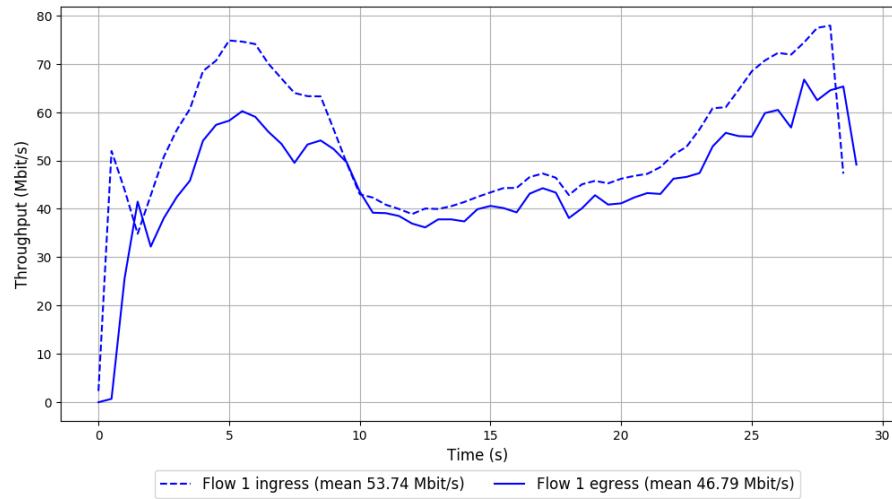


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-07-11 20:14:53
End at: 2019-07-11 20:15:23
Local clock offset: -7.04 ms
Remote clock offset: -8.903 ms

# Below is generated by plot.py at 2019-07-11 20:53:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.79 Mbit/s
95th percentile per-packet one-way delay: 81.288 ms
Loss rate: 12.92%
-- Flow 1:
Average throughput: 46.79 Mbit/s
95th percentile per-packet one-way delay: 81.288 ms
Loss rate: 12.92%
```

Run 4: Report of Indigo-MusesC3 — Data Link

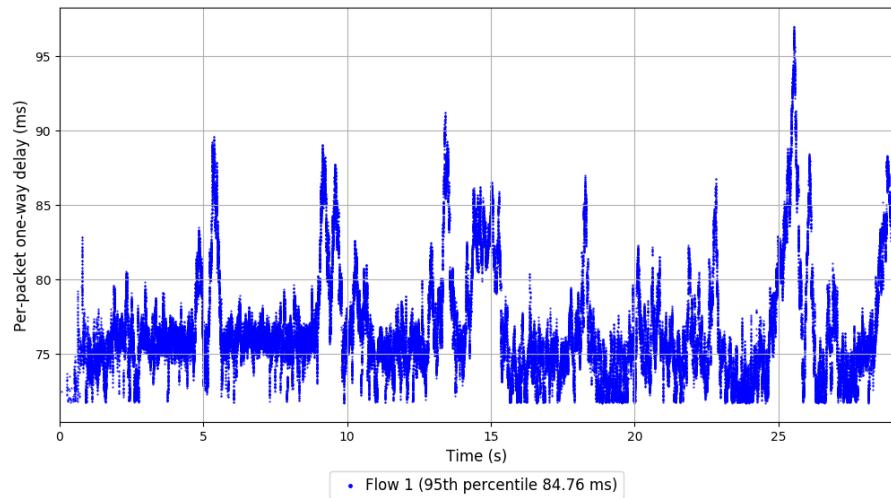
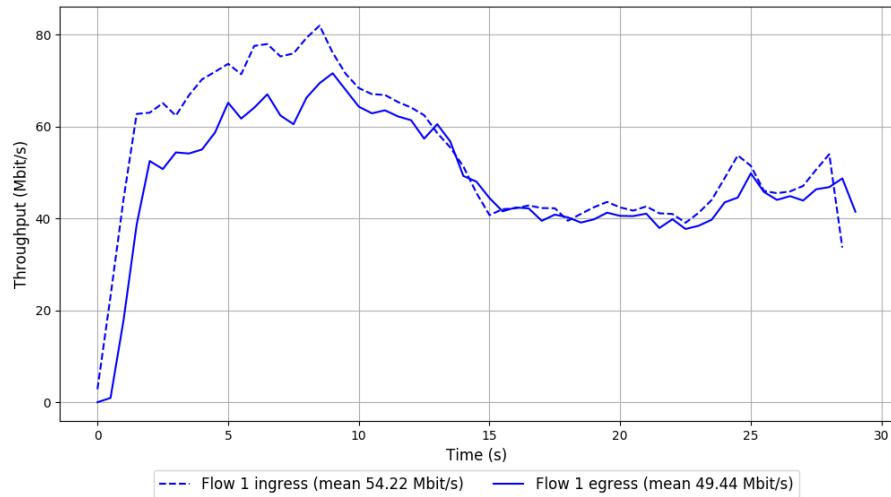


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-07-11 20:43:12
End at: 2019-07-11 20:43:42
Local clock offset: -6.902 ms
Remote clock offset: -9.642 ms

# Below is generated by plot.py at 2019-07-11 20:53:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.44 Mbit/s
95th percentile per-packet one-way delay: 84.762 ms
Loss rate: 8.78%
-- Flow 1:
Average throughput: 49.44 Mbit/s
95th percentile per-packet one-way delay: 84.762 ms
Loss rate: 8.78%
```

Run 5: Report of Indigo-MusesC3 — Data Link

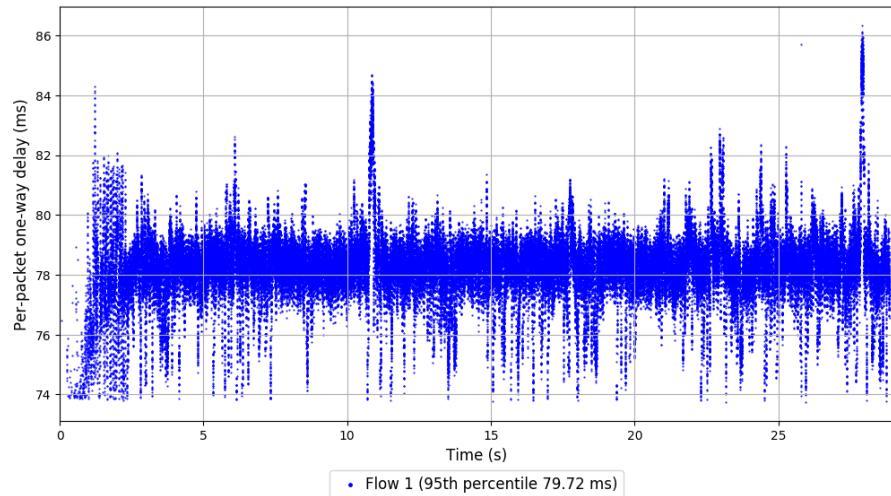
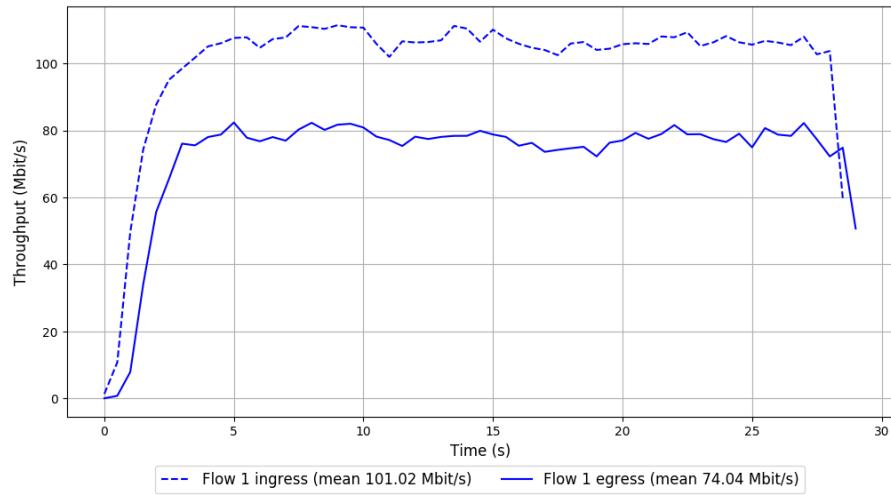


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-07-11 18:43:30
End at: 2019-07-11 18:44:00
Local clock offset: -8.068 ms
Remote clock offset: -5.934 ms

# Below is generated by plot.py at 2019-07-11 20:53:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.04 Mbit/s
95th percentile per-packet one-way delay: 79.720 ms
Loss rate: 26.71%
-- Flow 1:
Average throughput: 74.04 Mbit/s
95th percentile per-packet one-way delay: 79.720 ms
Loss rate: 26.71%
```

Run 1: Report of Indigo-MusesC5 — Data Link

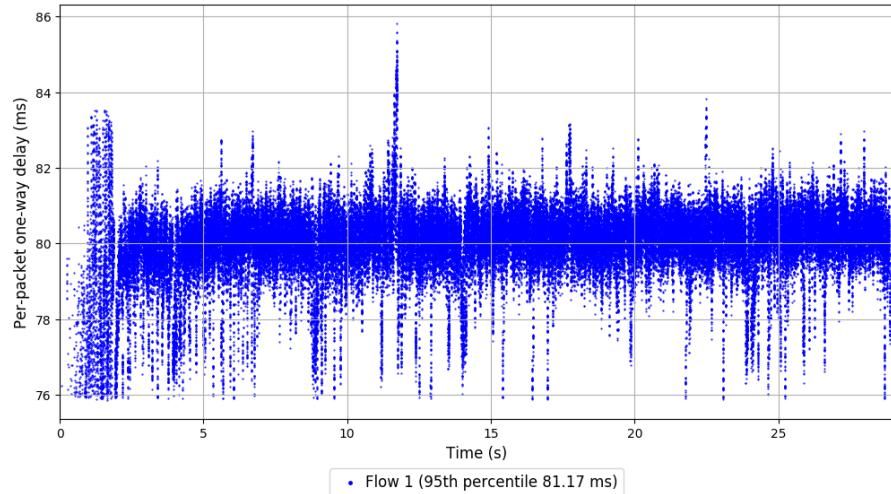
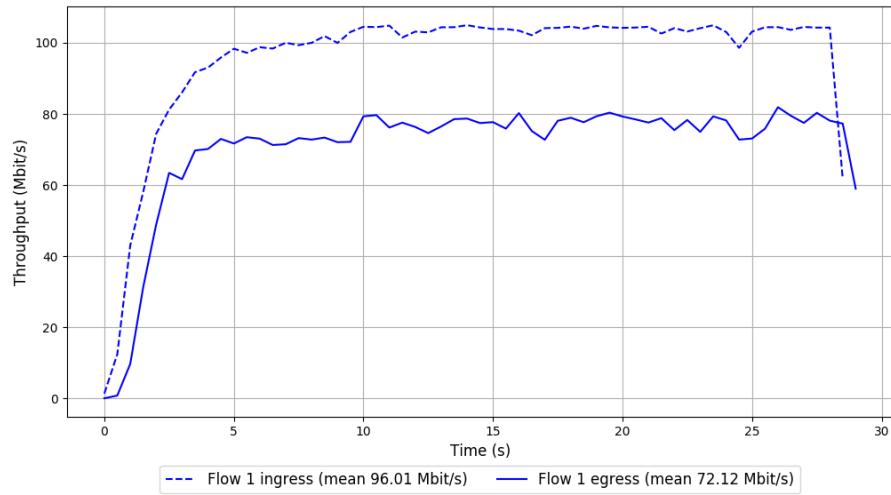


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-07-11 19:11:23
End at: 2019-07-11 19:11:53
Local clock offset: -7.162 ms
Remote clock offset: -6.228 ms

# Below is generated by plot.py at 2019-07-11 20:53:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.12 Mbit/s
95th percentile per-packet one-way delay: 81.167 ms
Loss rate: 24.88%
-- Flow 1:
Average throughput: 72.12 Mbit/s
95th percentile per-packet one-way delay: 81.167 ms
Loss rate: 24.88%
```

Run 2: Report of Indigo-MusesC5 — Data Link

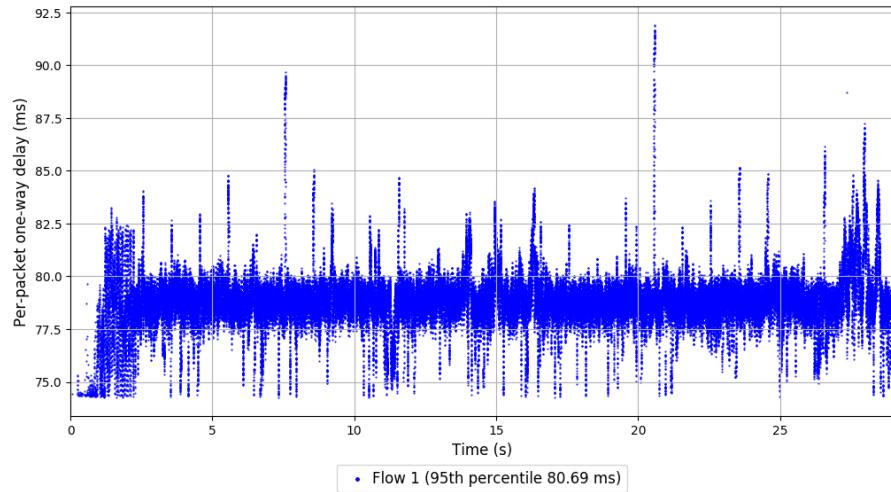
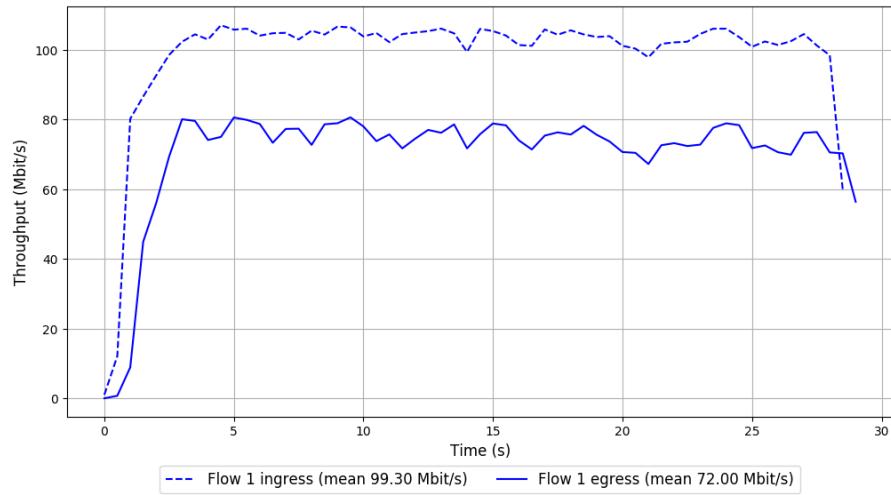


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-07-11 19:39:03
End at: 2019-07-11 19:39:33
Local clock offset: -7.205 ms
Remote clock offset: -6.579 ms

# Below is generated by plot.py at 2019-07-11 20:53:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.00 Mbit/s
95th percentile per-packet one-way delay: 80.687 ms
Loss rate: 27.49%
-- Flow 1:
Average throughput: 72.00 Mbit/s
95th percentile per-packet one-way delay: 80.687 ms
Loss rate: 27.49%
```

Run 3: Report of Indigo-MusesC5 — Data Link

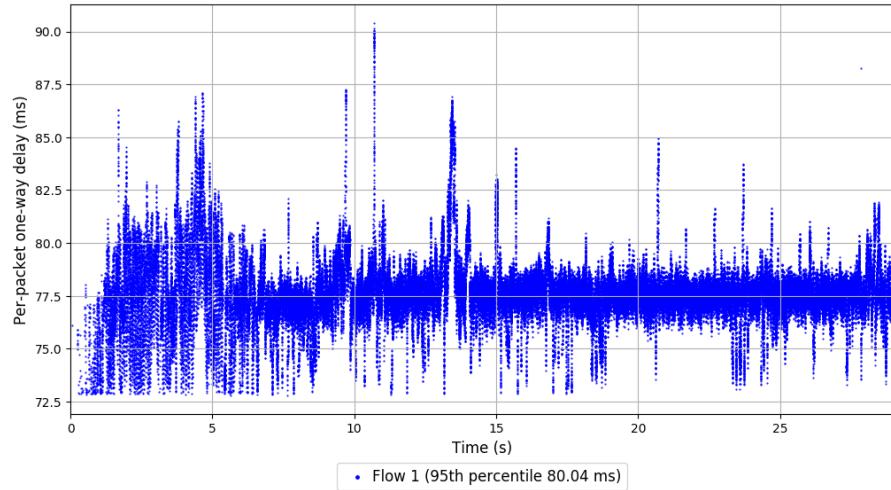
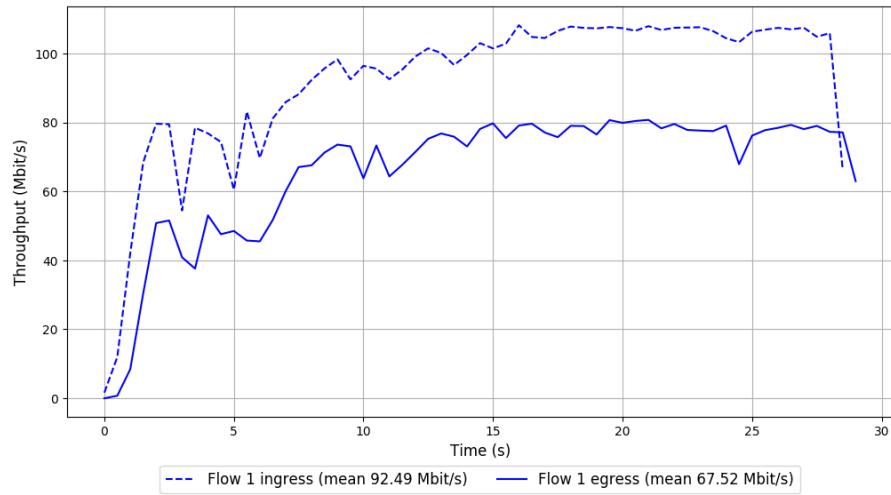


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-07-11 20:06:52
End at: 2019-07-11 20:07:22
Local clock offset: -7.56 ms
Remote clock offset: -8.818 ms

# Below is generated by plot.py at 2019-07-11 20:54:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.52 Mbit/s
95th percentile per-packet one-way delay: 80.039 ms
Loss rate: 26.99%
-- Flow 1:
Average throughput: 67.52 Mbit/s
95th percentile per-packet one-way delay: 80.039 ms
Loss rate: 26.99%
```

Run 4: Report of Indigo-MusesC5 — Data Link

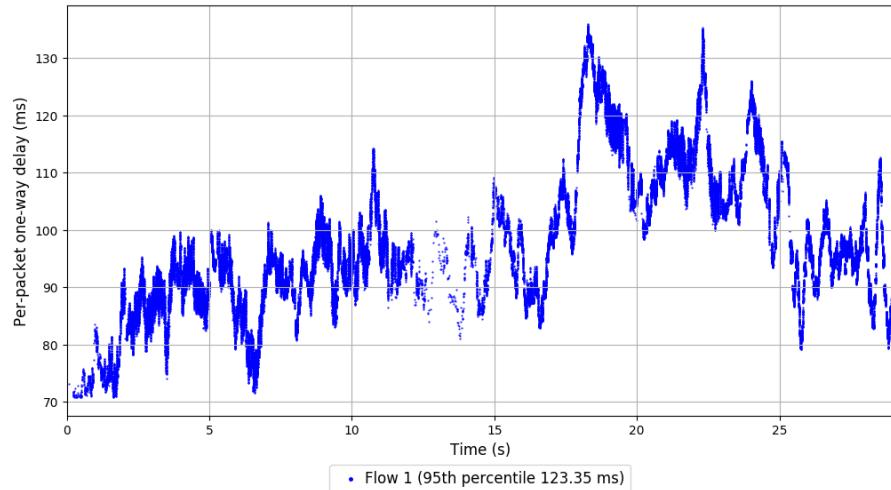
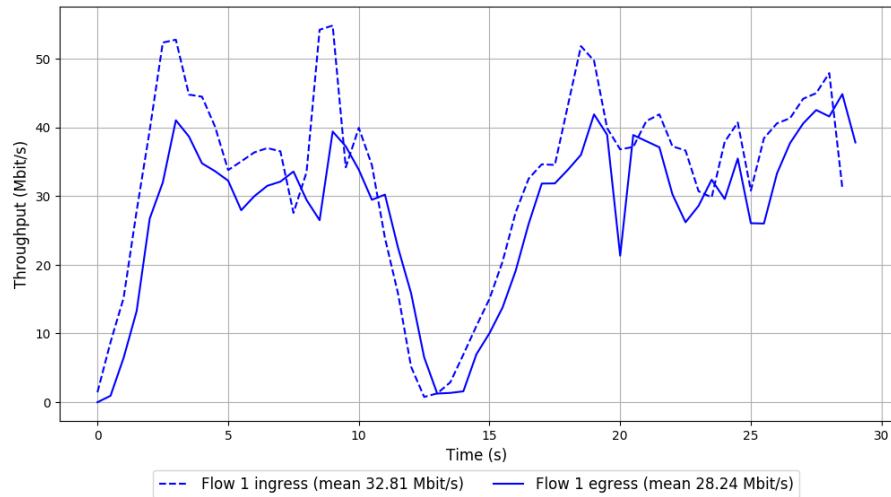


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-07-11 20:35:06
End at: 2019-07-11 20:35:36
Local clock offset: -7.046 ms
Remote clock offset: -10.0 ms

# Below is generated by plot.py at 2019-07-11 20:54:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.24 Mbit/s
95th percentile per-packet one-way delay: 123.349 ms
Loss rate: 13.89%
-- Flow 1:
Average throughput: 28.24 Mbit/s
95th percentile per-packet one-way delay: 123.349 ms
Loss rate: 13.89%
```

Run 5: Report of Indigo-MusesC5 — Data Link

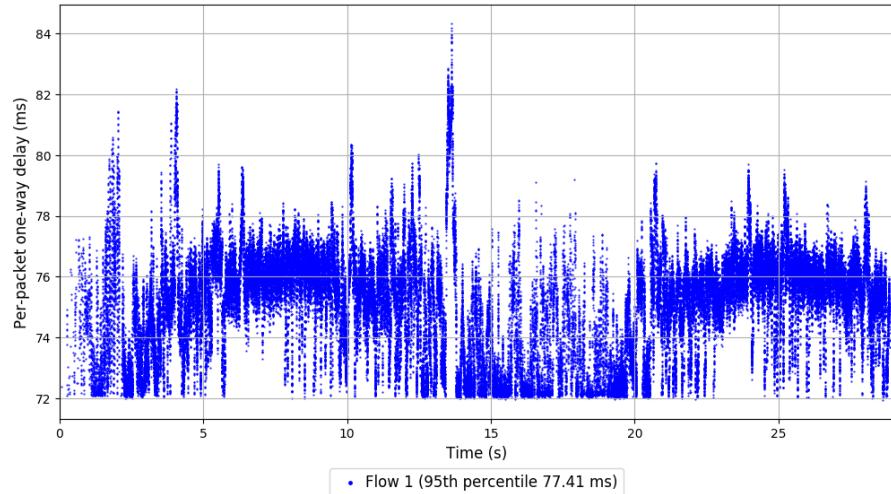
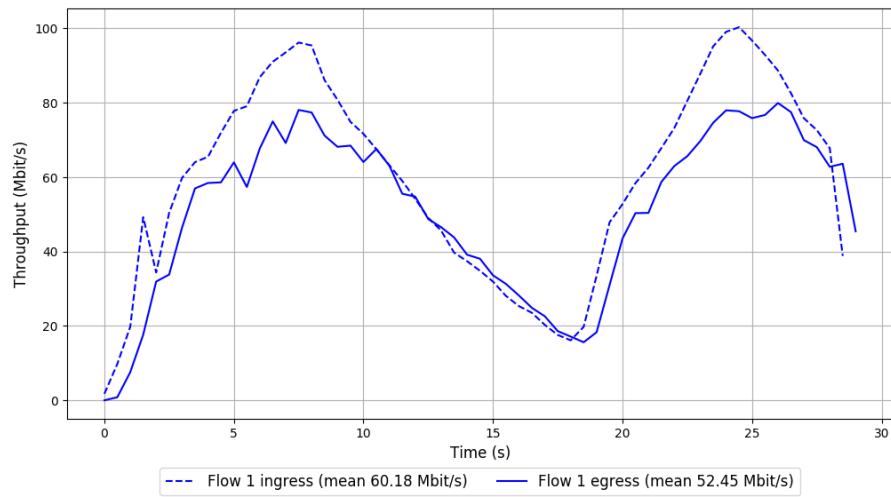


```
Run 1: Statistics of Indigo-MusesD
```

```
Start at: 2019-07-11 18:41:08
End at: 2019-07-11 18:41:38
Local clock offset: -7.463 ms
Remote clock offset: -6.829 ms

# Below is generated by plot.py at 2019-07-11 20:54:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.45 Mbit/s
95th percentile per-packet one-way delay: 77.410 ms
Loss rate: 12.84%
-- Flow 1:
Average throughput: 52.45 Mbit/s
95th percentile per-packet one-way delay: 77.410 ms
Loss rate: 12.84%
```

Run 1: Report of Indigo-MusesD — Data Link

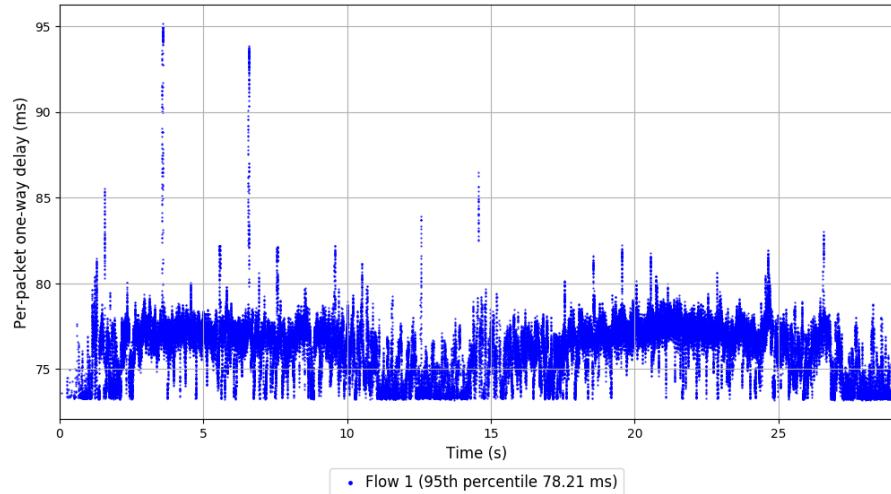
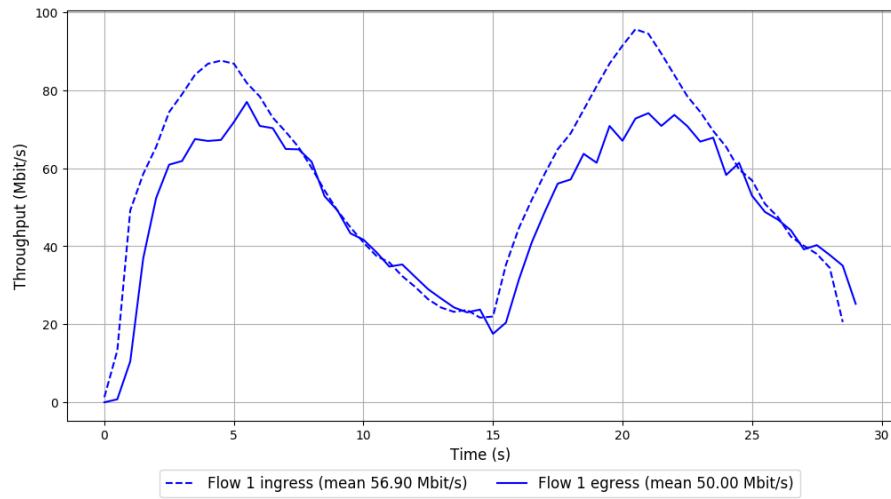


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-07-11 19:09:01
End at: 2019-07-11 19:09:31
Local clock offset: -6.845 ms
Remote clock offset: -6.436 ms

# Below is generated by plot.py at 2019-07-11 20:54:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.00 Mbit/s
95th percentile per-packet one-way delay: 78.209 ms
Loss rate: 12.12%
-- Flow 1:
Average throughput: 50.00 Mbit/s
95th percentile per-packet one-way delay: 78.209 ms
Loss rate: 12.12%
```

Run 2: Report of Indigo-MusesD — Data Link

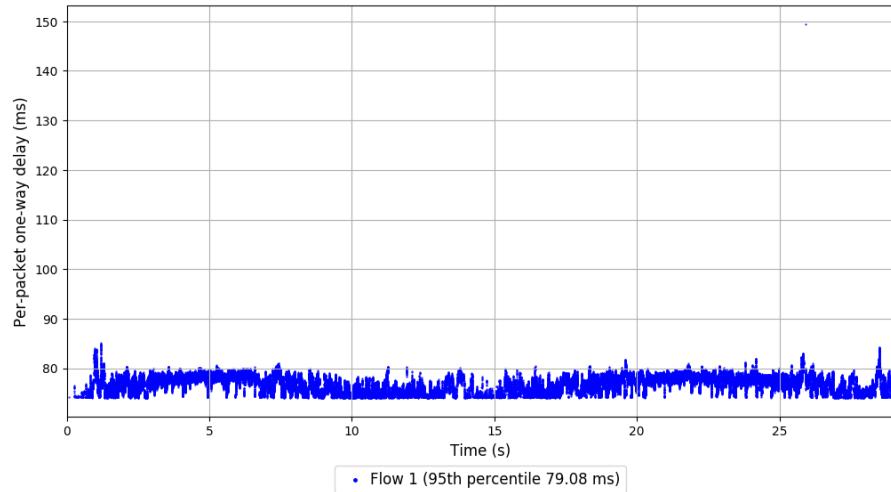
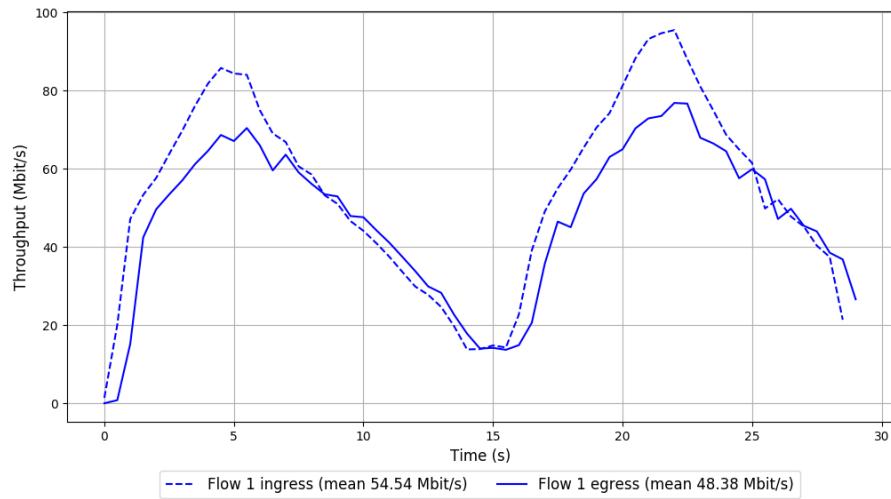


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-07-11 19:36:41
End at: 2019-07-11 19:37:11
Local clock offset: -7.199 ms
Remote clock offset: -7.058 ms

# Below is generated by plot.py at 2019-07-11 20:54:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.38 Mbit/s
95th percentile per-packet one-way delay: 79.080 ms
Loss rate: 11.31%
-- Flow 1:
Average throughput: 48.38 Mbit/s
95th percentile per-packet one-way delay: 79.080 ms
Loss rate: 11.31%
```

Run 3: Report of Indigo-MusesD — Data Link

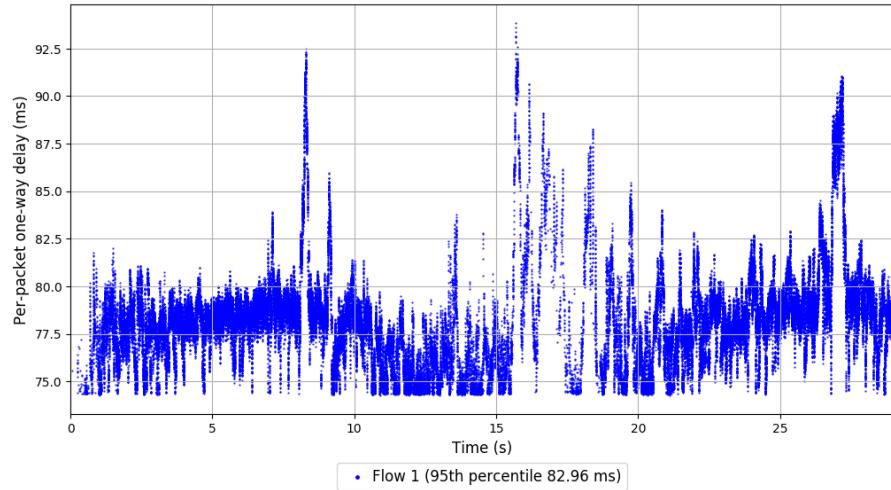
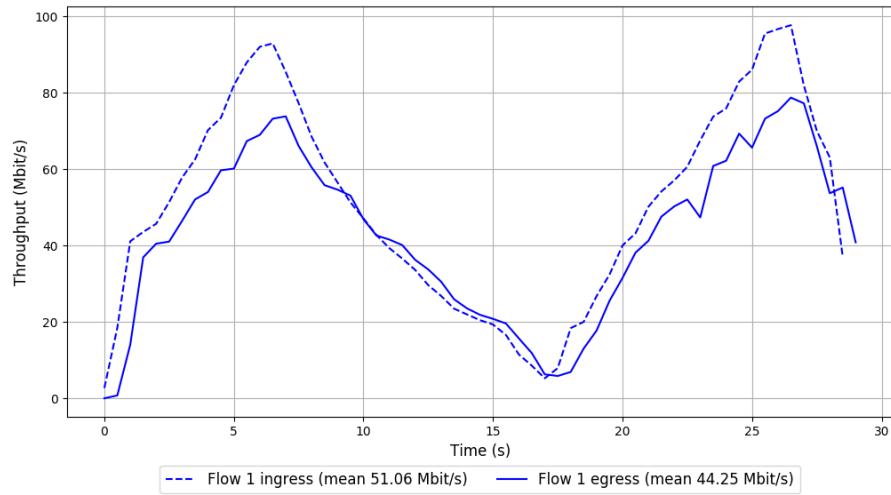


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-07-11 20:04:29
End at: 2019-07-11 20:04:59
Local clock offset: -7.745 ms
Remote clock offset: -8.793 ms

# Below is generated by plot.py at 2019-07-11 20:54:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.25 Mbit/s
95th percentile per-packet one-way delay: 82.962 ms
Loss rate: 13.34%
-- Flow 1:
Average throughput: 44.25 Mbit/s
95th percentile per-packet one-way delay: 82.962 ms
Loss rate: 13.34%
```

Run 4: Report of Indigo-MusesD — Data Link

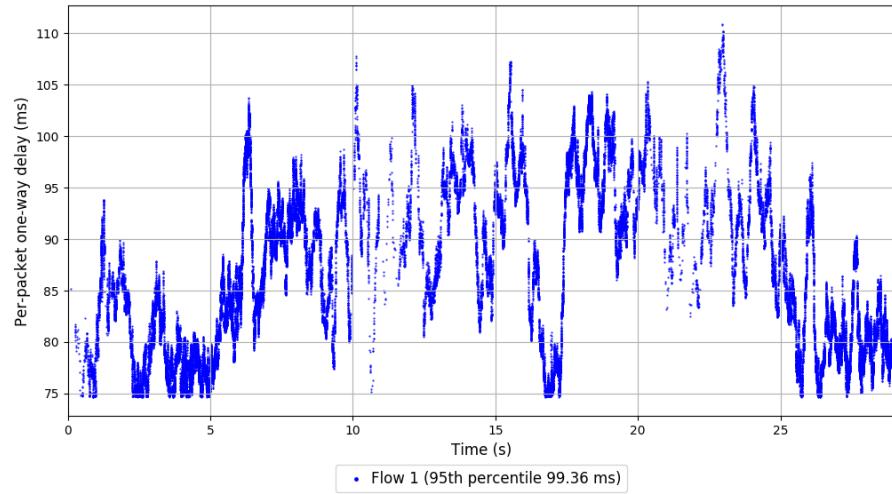
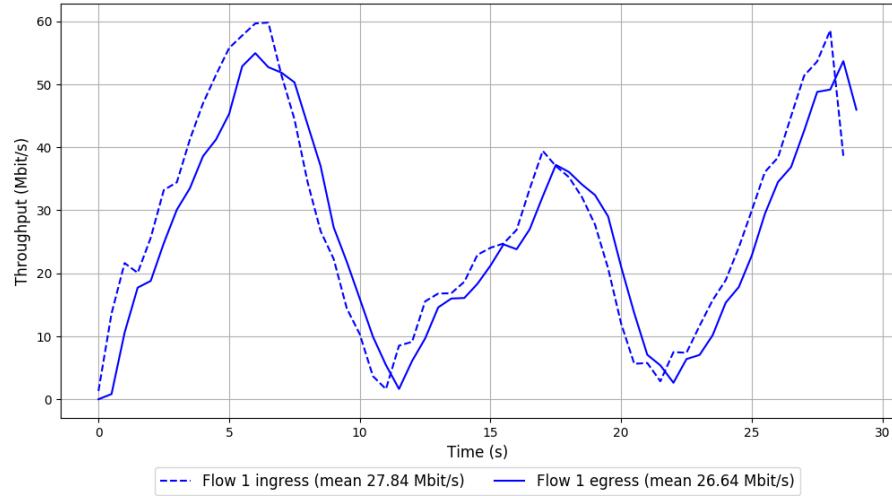


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-07-11 20:32:45
End at: 2019-07-11 20:33:15
Local clock offset: -8.156 ms
Remote clock offset: -9.555 ms

# Below is generated by plot.py at 2019-07-11 20:54:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.64 Mbit/s
95th percentile per-packet one-way delay: 99.357 ms
Loss rate: 4.32%
-- Flow 1:
Average throughput: 26.64 Mbit/s
95th percentile per-packet one-way delay: 99.357 ms
Loss rate: 4.32%
```

Run 5: Report of Indigo-MusesD — Data Link

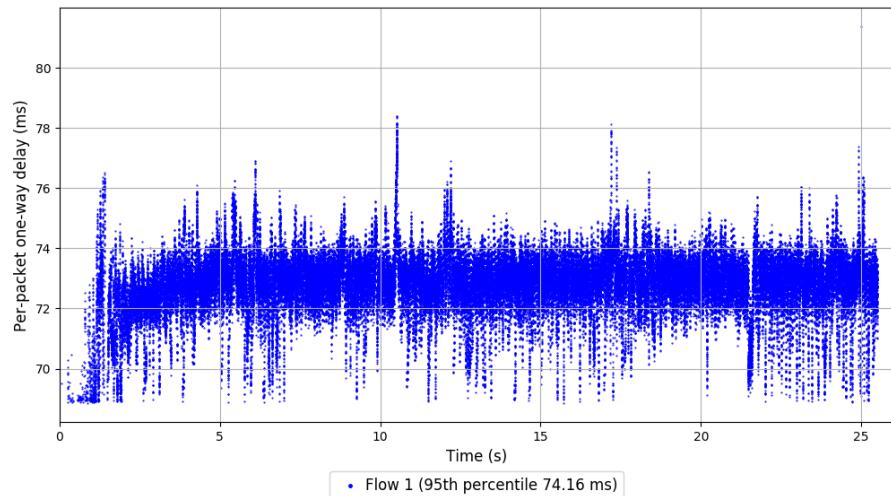
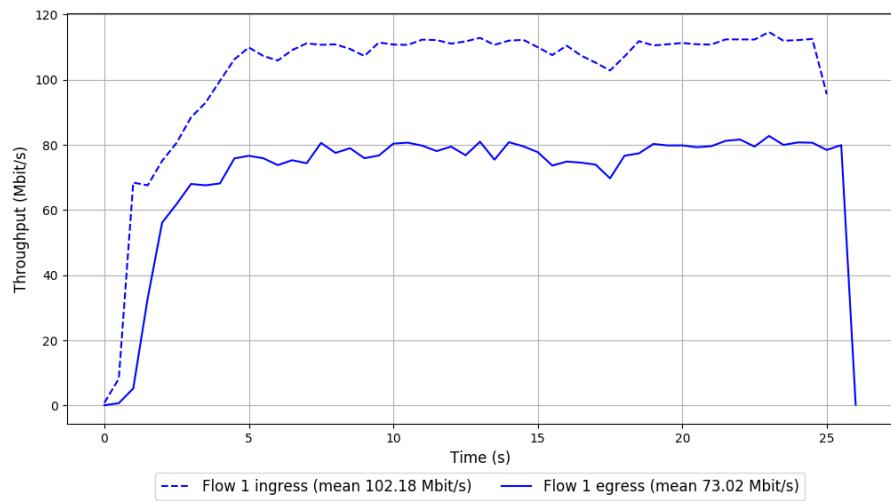


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-07-11 18:36:17
End at: 2019-07-11 18:36:47
Local clock offset: -5.797 ms
Remote clock offset: -9.446 ms

# Below is generated by plot.py at 2019-07-11 20:54:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.02 Mbit/s
95th percentile per-packet one-way delay: 74.159 ms
Loss rate: 28.52%
-- Flow 1:
Average throughput: 73.02 Mbit/s
95th percentile per-packet one-way delay: 74.159 ms
Loss rate: 28.52%
```

Run 1: Report of Indigo-MusesT — Data Link

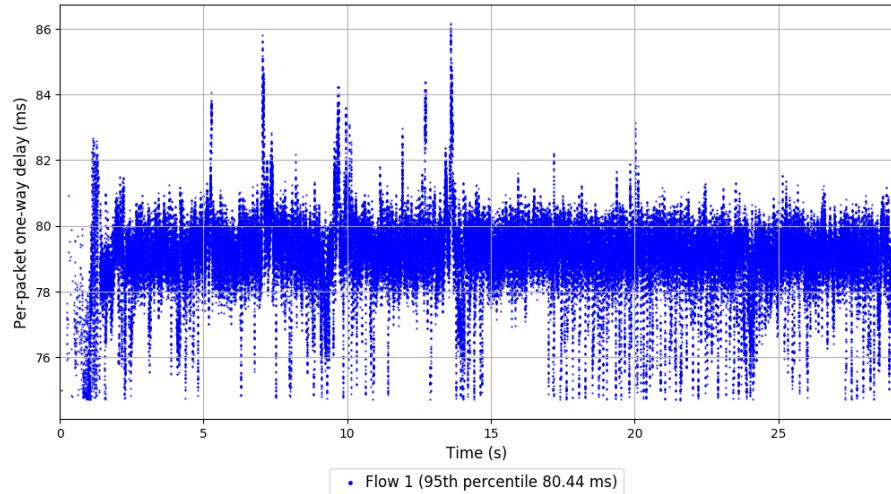
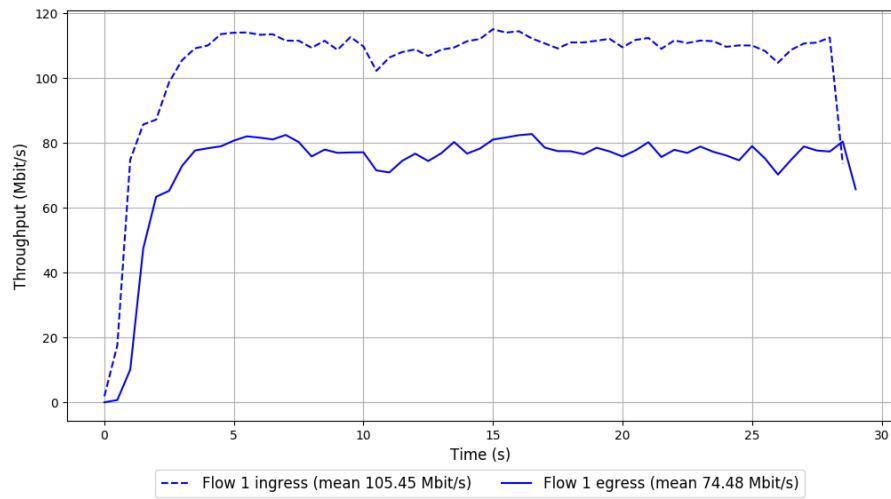


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-07-11 19:04:17
End at: 2019-07-11 19:04:47
Local clock offset: -5.984 ms
Remote clock offset: -7.762 ms

# Below is generated by plot.py at 2019-07-11 20:54:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.48 Mbit/s
95th percentile per-packet one-way delay: 80.438 ms
Loss rate: 29.37%
-- Flow 1:
Average throughput: 74.48 Mbit/s
95th percentile per-packet one-way delay: 80.438 ms
Loss rate: 29.37%
```

Run 2: Report of Indigo-MusesT — Data Link

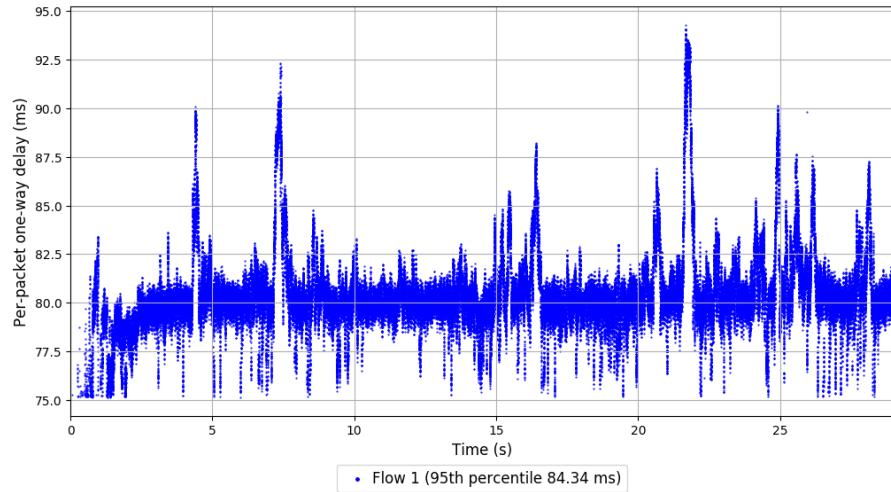
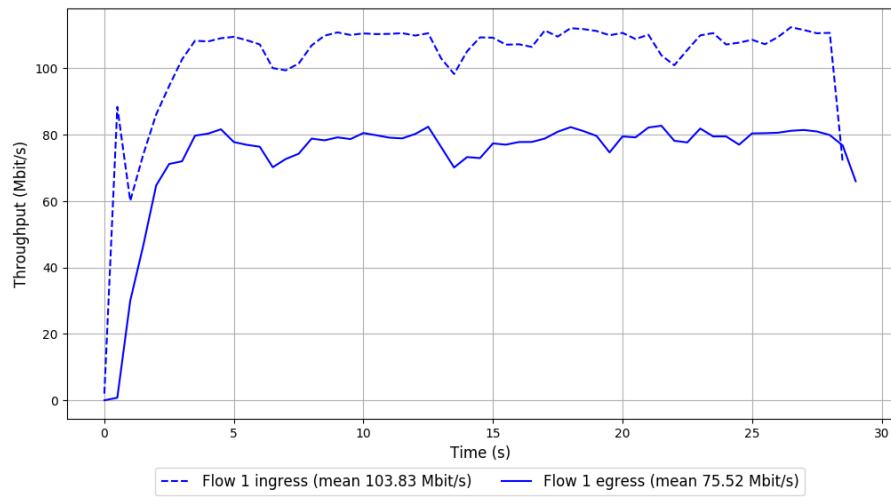


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-07-11 19:31:59
End at: 2019-07-11 19:32:29
Local clock offset: -6.721 ms
Remote clock offset: -7.765 ms

# Below is generated by plot.py at 2019-07-11 20:54:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.52 Mbit/s
95th percentile per-packet one-way delay: 84.338 ms
Loss rate: 27.26%
-- Flow 1:
Average throughput: 75.52 Mbit/s
95th percentile per-packet one-way delay: 84.338 ms
Loss rate: 27.26%
```

Run 3: Report of Indigo-MusesT — Data Link

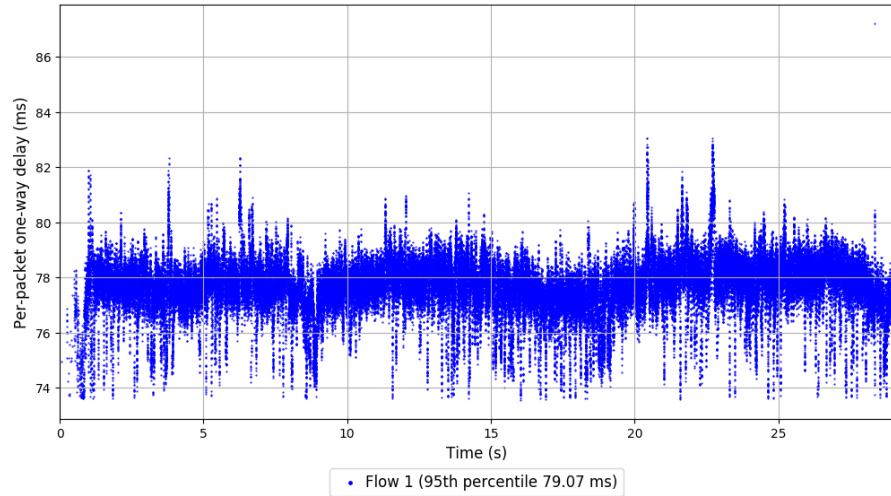
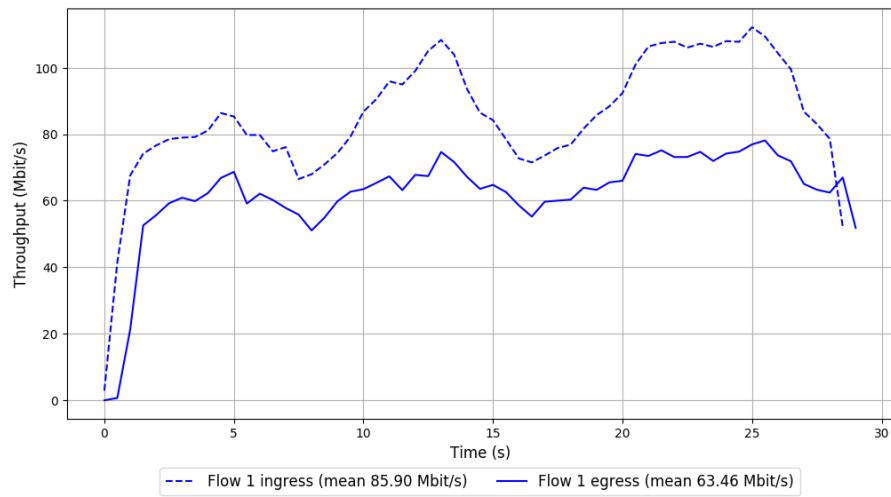


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-07-11 19:59:46
End at: 2019-07-11 20:00:16
Local clock offset: -6.92 ms
Remote clock offset: -9.053 ms

# Below is generated by plot.py at 2019-07-11 20:54:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.46 Mbit/s
95th percentile per-packet one-way delay: 79.066 ms
Loss rate: 26.12%
-- Flow 1:
Average throughput: 63.46 Mbit/s
95th percentile per-packet one-way delay: 79.066 ms
Loss rate: 26.12%
```

Run 4: Report of Indigo-MusesT — Data Link

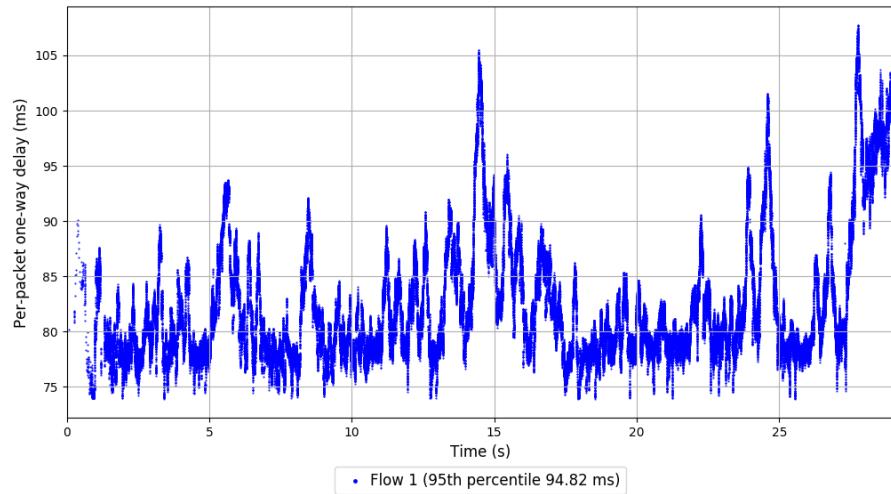
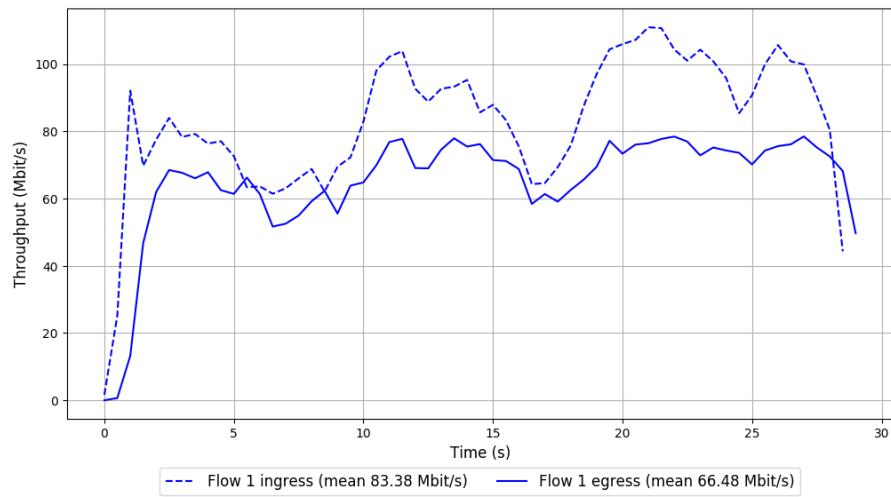


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-07-11 20:27:28
End at: 2019-07-11 20:27:58
Local clock offset: -8.387 ms
Remote clock offset: -7.988 ms

# Below is generated by plot.py at 2019-07-11 20:55:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.48 Mbit/s
95th percentile per-packet one-way delay: 94.823 ms
Loss rate: 20.21%
-- Flow 1:
Average throughput: 66.48 Mbit/s
95th percentile per-packet one-way delay: 94.823 ms
Loss rate: 20.21%
```

Run 5: Report of Indigo-MusesT — Data Link

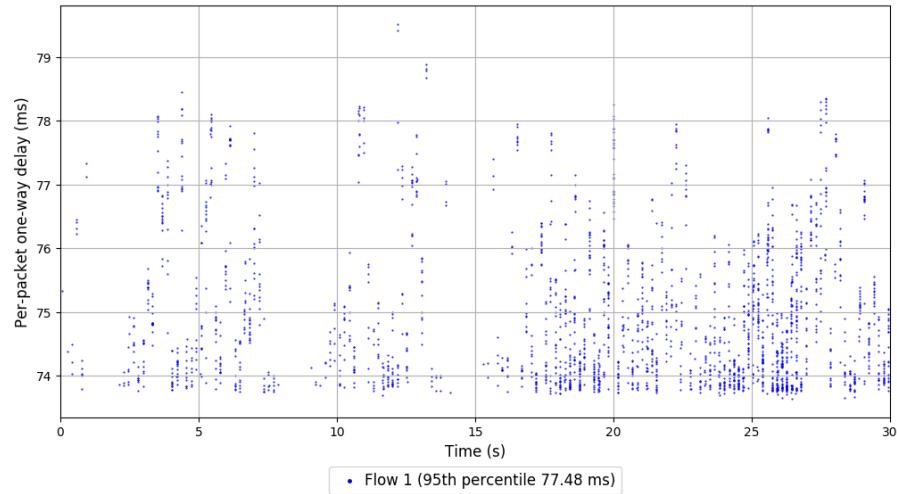
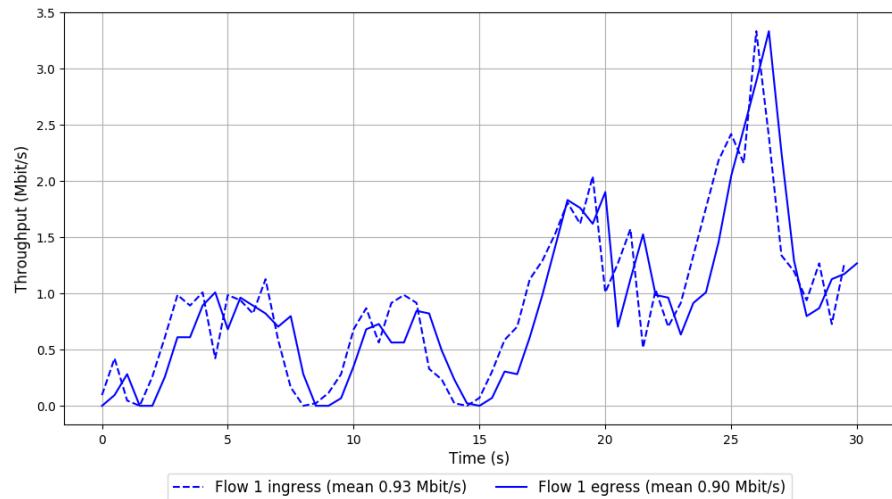


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-07-11 18:44:42
End at: 2019-07-11 18:45:12
Local clock offset: -8.024 ms
Remote clock offset: -5.861 ms

# Below is generated by plot.py at 2019-07-11 20:55:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 77.478 ms
Loss rate: 3.33%
-- Flow 1:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 77.478 ms
Loss rate: 3.33%
```

Run 1: Report of LEDBAT — Data Link

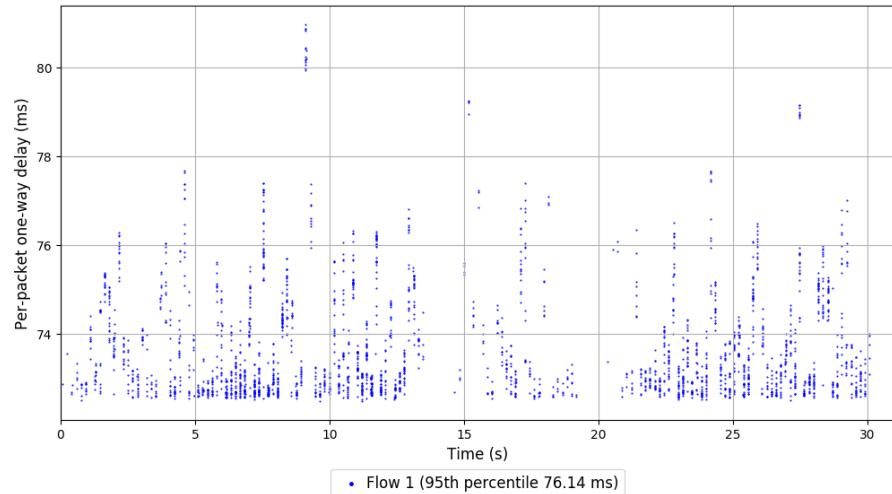
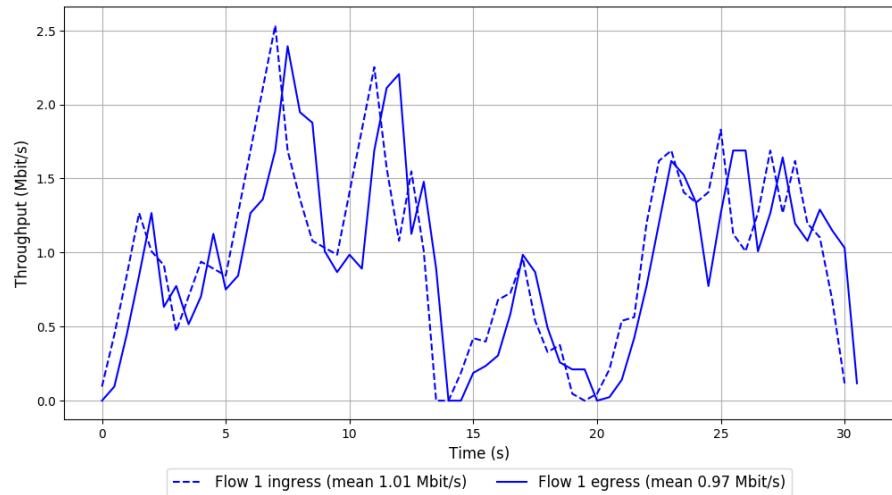


Run 2: Statistics of LEDBAT

```
Start at: 2019-07-11 19:12:35
End at: 2019-07-11 19:13:05
Local clock offset: -6.913 ms
Remote clock offset: -7.364 ms

# Below is generated by plot.py at 2019-07-11 20:55:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.97 Mbit/s
95th percentile per-packet one-way delay: 76.138 ms
Loss rate: 3.45%
-- Flow 1:
Average throughput: 0.97 Mbit/s
95th percentile per-packet one-way delay: 76.138 ms
Loss rate: 3.45%
```

Run 2: Report of LEDBAT — Data Link

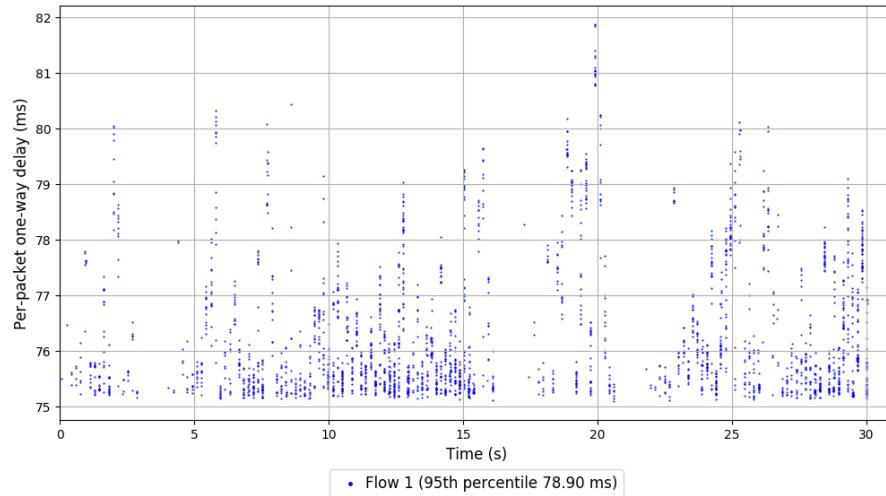
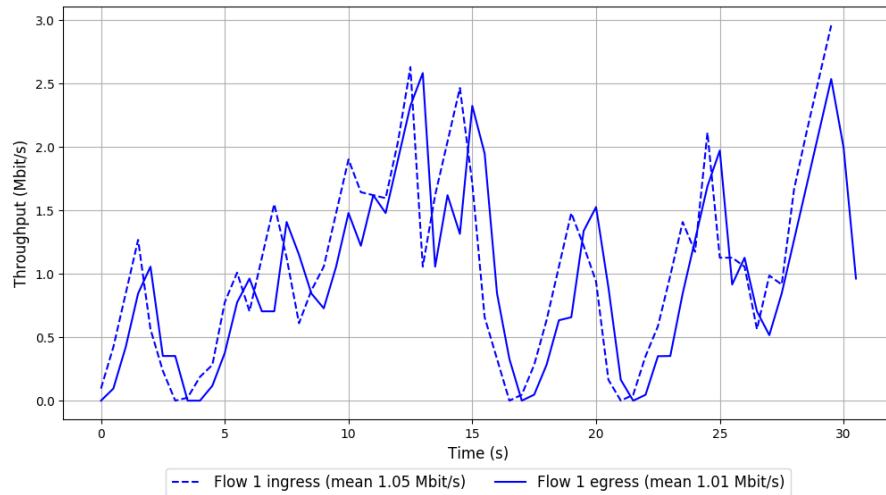


Run 3: Statistics of LEDBAT

```
Start at: 2019-07-11 19:40:15
End at: 2019-07-11 19:40:45
Local clock offset: -7.182 ms
Remote clock offset: -6.728 ms

# Below is generated by plot.py at 2019-07-11 20:55:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.01 Mbit/s
95th percentile per-packet one-way delay: 78.904 ms
Loss rate: 3.72%
-- Flow 1:
Average throughput: 1.01 Mbit/s
95th percentile per-packet one-way delay: 78.904 ms
Loss rate: 3.72%
```

Run 3: Report of LEDBAT — Data Link

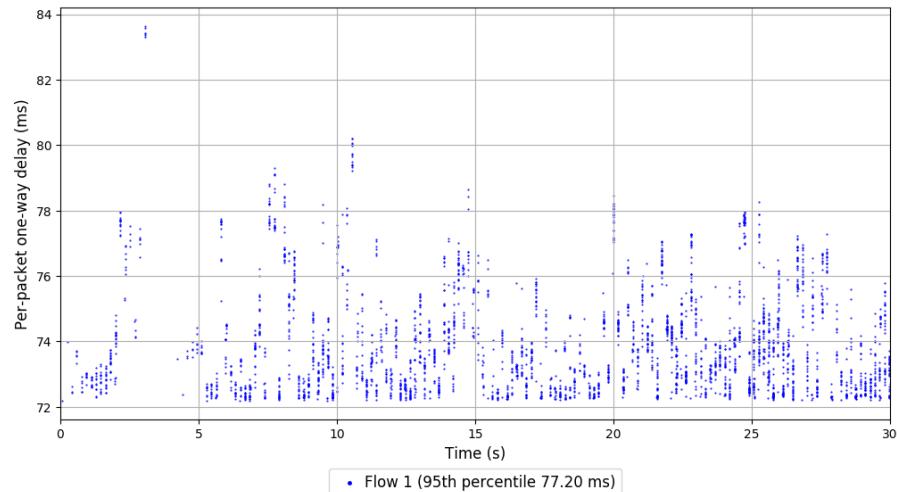
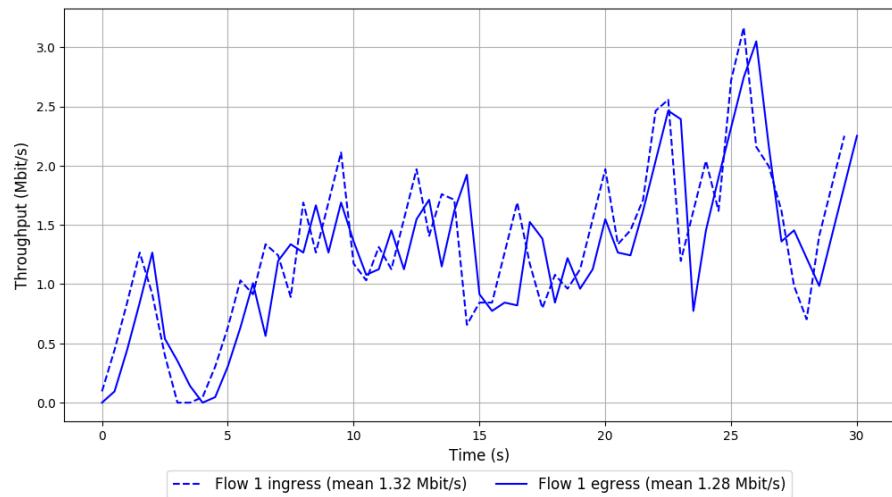


Run 4: Statistics of LEDBAT

```
Start at: 2019-07-11 20:08:03
End at: 2019-07-11 20:08:33
Local clock offset: -7.028 ms
Remote clock offset: -10.16 ms

# Below is generated by plot.py at 2019-07-11 20:55:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 77.198 ms
Loss rate: 2.91%
-- Flow 1:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 77.198 ms
Loss rate: 2.91%
```

Run 4: Report of LEDBAT — Data Link

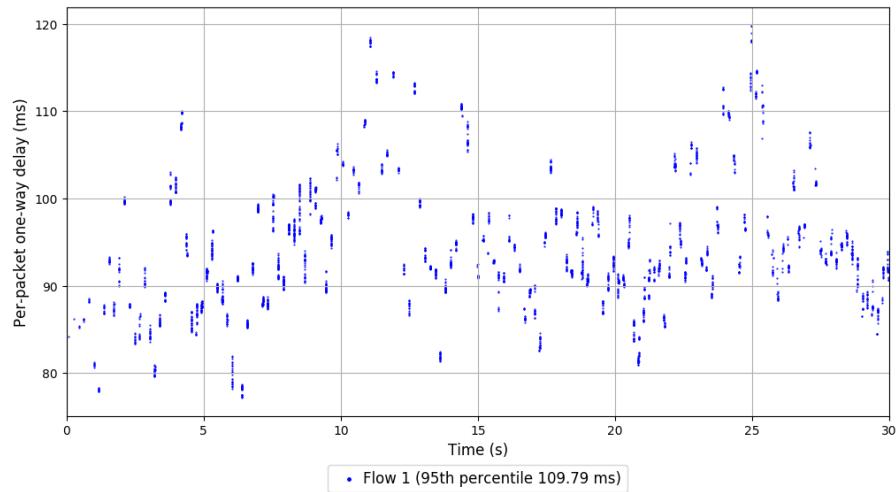
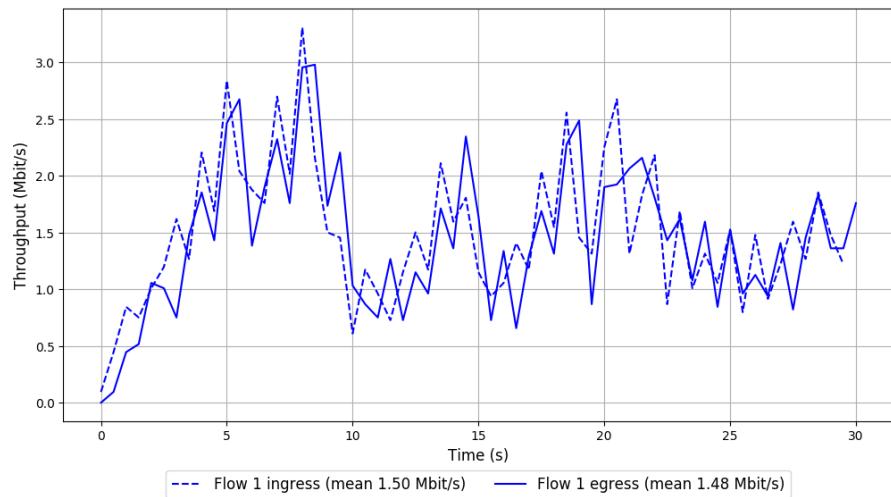


Run 5: Statistics of LEDBAT

```
Start at: 2019-07-11 20:36:16
End at: 2019-07-11 20:36:46
Local clock offset: -8.065 ms
Remote clock offset: -13.486 ms

# Below is generated by plot.py at 2019-07-11 20:55:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: 109.791 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: 109.791 ms
Loss rate: 1.46%
```

Run 5: Report of LEDBAT — Data Link

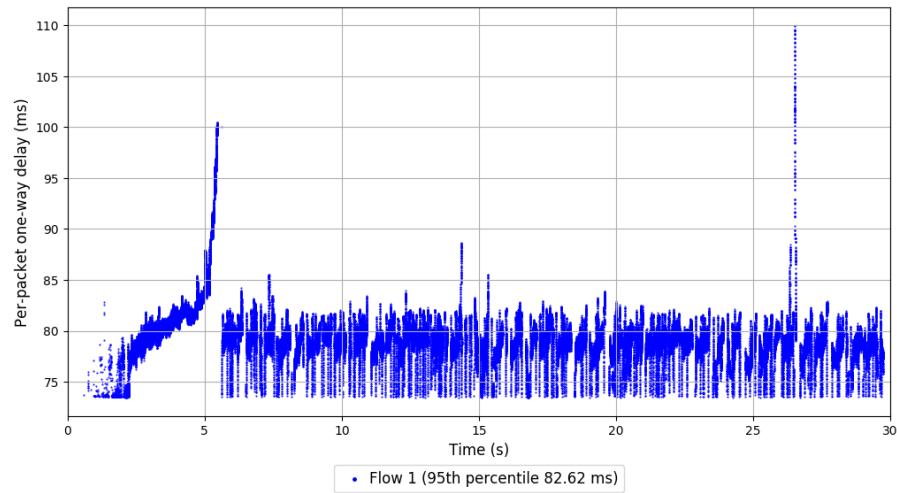
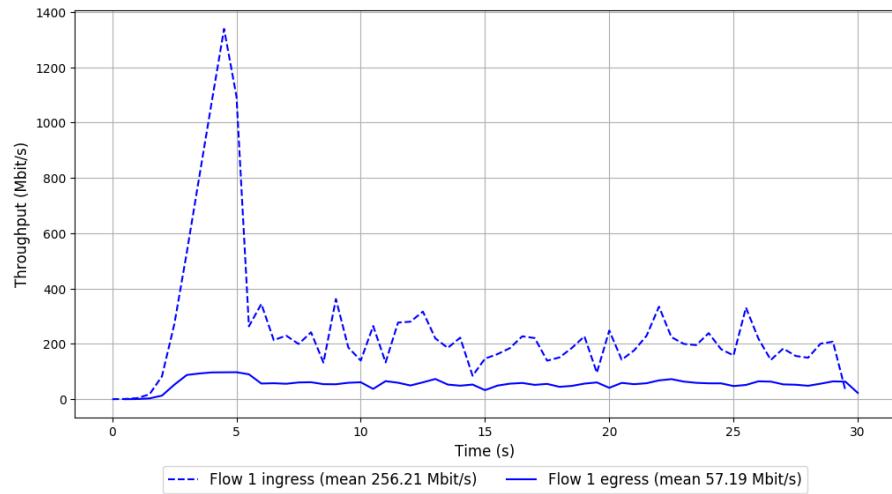


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-07-11 18:58:31
End at: 2019-07-11 18:59:01
Local clock offset: -6.748 ms
Remote clock offset: -7.386 ms

# Below is generated by plot.py at 2019-07-11 20:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.19 Mbit/s
95th percentile per-packet one-way delay: 82.618 ms
Loss rate: 78.05%
-- Flow 1:
Average throughput: 57.19 Mbit/s
95th percentile per-packet one-way delay: 82.618 ms
Loss rate: 78.05%
```

Run 1: Report of Muses_DecisionTree — Data Link

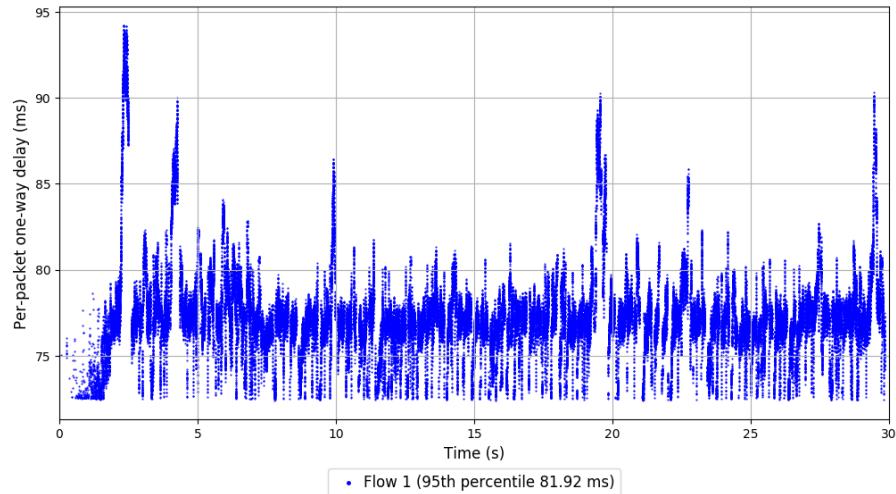
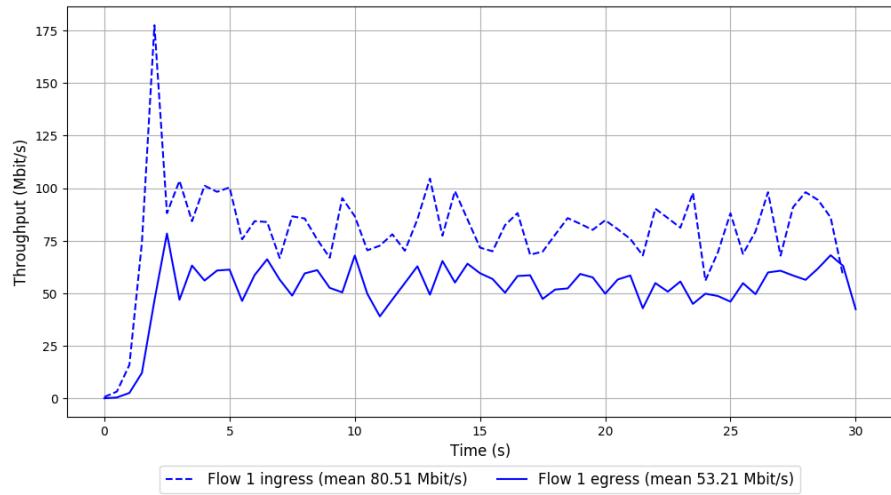


```
Run 2: Statistics of Muses\_DecisionTree

Start at: 2019-07-11 19:26:18
End at: 2019-07-11 19:26:48
Local clock offset: -7.563 ms
Remote clock offset: -10.027 ms

# Below is generated by plot.py at 2019-07-11 20:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.21 Mbit/s
95th percentile per-packet one-way delay: 81.923 ms
Loss rate: 33.90%
-- Flow 1:
Average throughput: 53.21 Mbit/s
95th percentile per-packet one-way delay: 81.923 ms
Loss rate: 33.90%
```

Run 2: Report of Muses_DecisionTree — Data Link

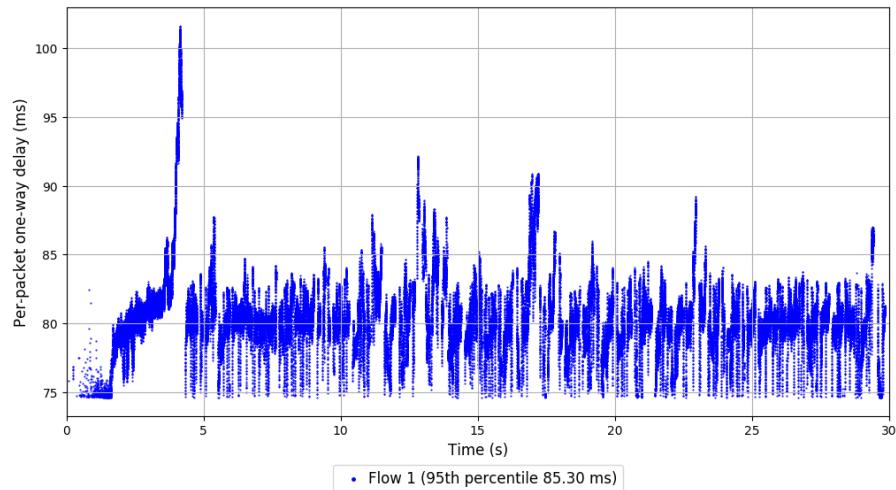
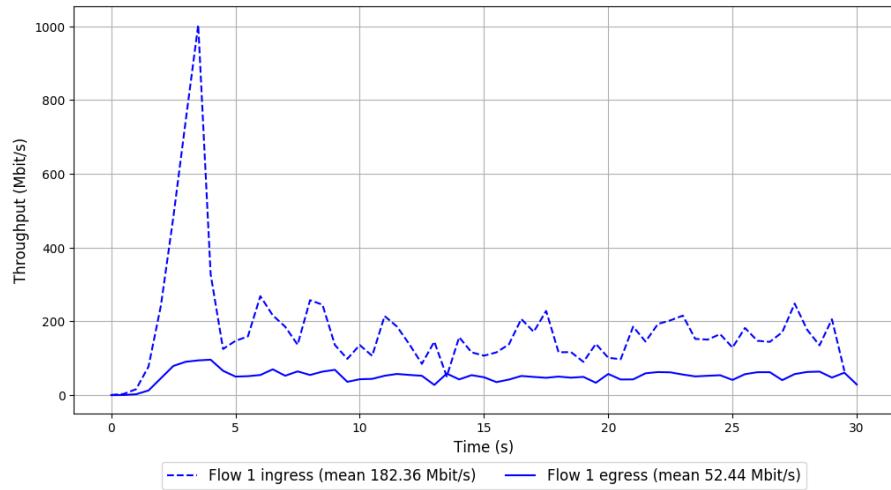


```
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-07-11 19:54:04
End at: 2019-07-11 19:54:34
Local clock offset: -7.617 ms
Remote clock offset: -8.169 ms

# Below is generated by plot.py at 2019-07-11 20:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.44 Mbit/s
95th percentile per-packet one-way delay: 85.296 ms
Loss rate: 71.24%
-- Flow 1:
Average throughput: 52.44 Mbit/s
95th percentile per-packet one-way delay: 85.296 ms
Loss rate: 71.24%
```

Run 3: Report of Muses_DecisionTree — Data Link

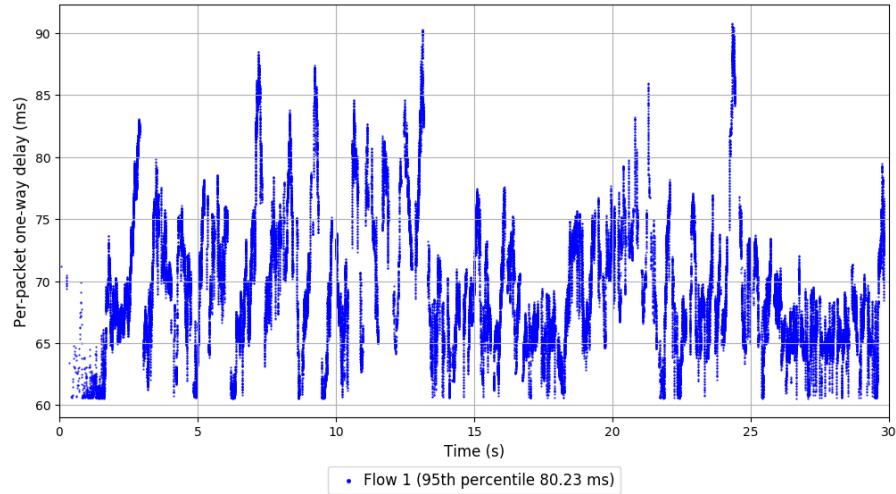
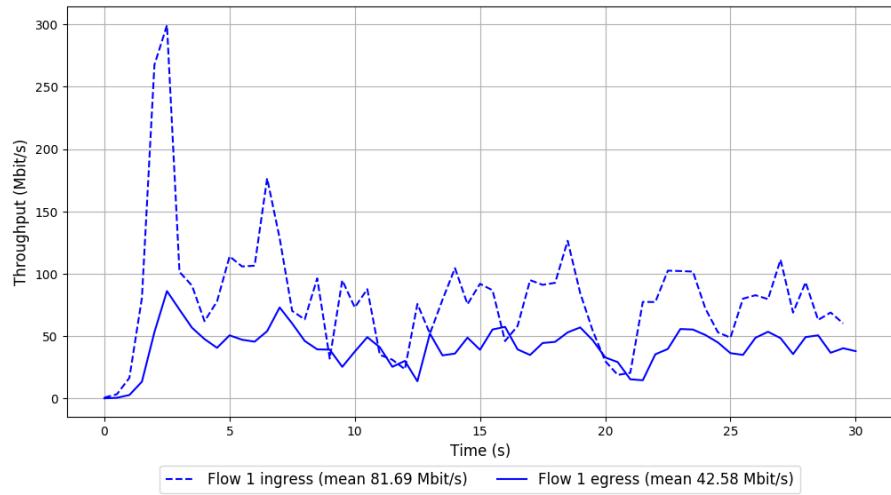


```
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-07-11 20:21:46
End at: 2019-07-11 20:22:16
Local clock offset: -7.988 ms
Remote clock offset: -21.492 ms

# Below is generated by plot.py at 2019-07-11 20:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.58 Mbit/s
95th percentile per-packet one-way delay: 80.228 ms
Loss rate: 47.87%
-- Flow 1:
Average throughput: 42.58 Mbit/s
95th percentile per-packet one-way delay: 80.228 ms
Loss rate: 47.87%
```

Run 4: Report of Muses_DecisionTree — Data Link

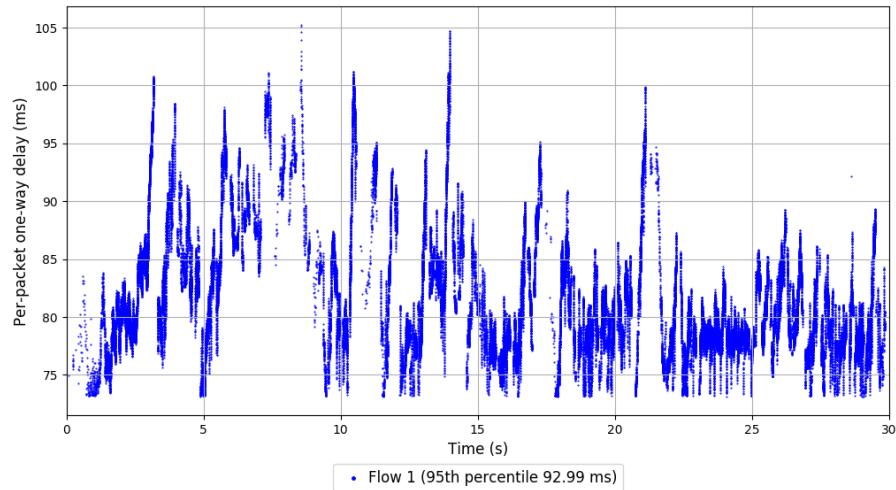
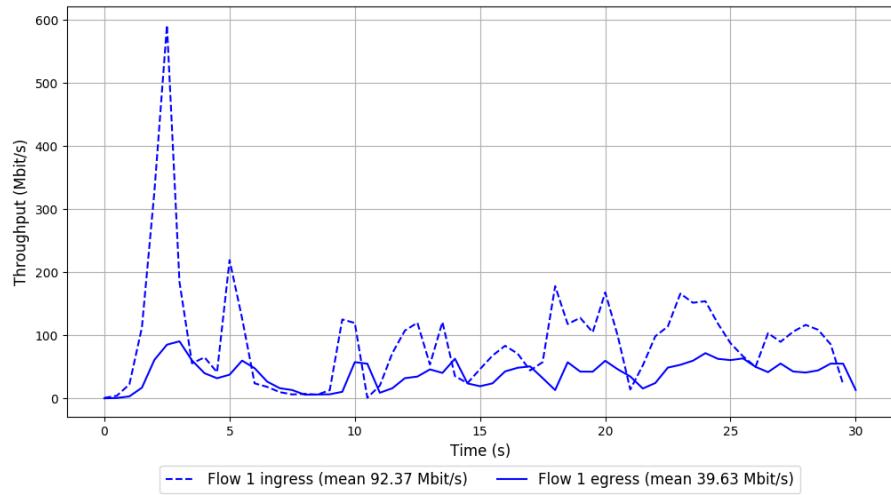


```
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-07-11 20:50:03
End at: 2019-07-11 20:50:33
Local clock offset: -7.751 ms
Remote clock offset: -8.114 ms

# Below is generated by plot.py at 2019-07-11 20:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 39.63 Mbit/s
95th percentile per-packet one-way delay: 92.994 ms
Loss rate: 57.08%
-- Flow 1:
Average throughput: 39.63 Mbit/s
95th percentile per-packet one-way delay: 92.994 ms
Loss rate: 57.08%
```

Run 5: Report of Muses_DecisionTree — Data Link



Run 1: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-11 18:31:40
End at: 2019-07-11 18:32:11
Local clock offset: -6.293 ms
Remote clock offset: -4.882 ms

Run 1: Report of Muses_DecisionTreeH0 — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-11 18:59:45
End at: 2019-07-11 19:00:15
Local clock offset: -6.779 ms
Remote clock offset: -6.515 ms

Run 2: Report of Muses_DecisionTreeH0 — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-11 19:27:29
End at: 2019-07-11 19:27:59
Local clock offset: -6.848 ms
Remote clock offset: -6.511 ms

Run 3: Report of Muses_DecisionTreeH0 — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-11 19:55:16
End at: 2019-07-11 19:55:46
Local clock offset: -6.793 ms
Remote clock offset: -7.708 ms

Run 4: Report of Muses_DecisionTreeH0 — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-11 20:22:56
End at: 2019-07-11 20:23:27
Local clock offset: -7.314 ms
Remote clock offset: -8.312 ms

Run 5: Report of Muses_DecisionTreeH0 — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-11 18:49:17
End at: 2019-07-11 18:49:47
Local clock offset: -6.414 ms
Remote clock offset: -6.511 ms

Run 1: Report of Muses_DecisionTreeR0 — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-11 19:17:10
End at: 2019-07-11 19:17:40
Local clock offset: -6.388 ms
Remote clock offset: -11.701 ms

Run 2: Report of Muses_DecisionTreeR0 — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-11 19:44:51
End at: 2019-07-11 19:45:21
Local clock offset: -6.63 ms
Remote clock offset: -10.405 ms

Run 3: Report of Muses_DecisionTreeR0 — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-11 20:12:38
End at: 2019-07-11 20:13:08
Local clock offset: -6.94 ms
Remote clock offset: -8.086 ms

Run 4: Report of Muses_DecisionTreeR0 — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-11 20:40:57
End at: 2019-07-11 20:41:27
Local clock offset: -7.213 ms
Remote clock offset: -13.499 ms

Run 5: Report of Muses_DecisionTreeR0 — Data Link

Figure is missing

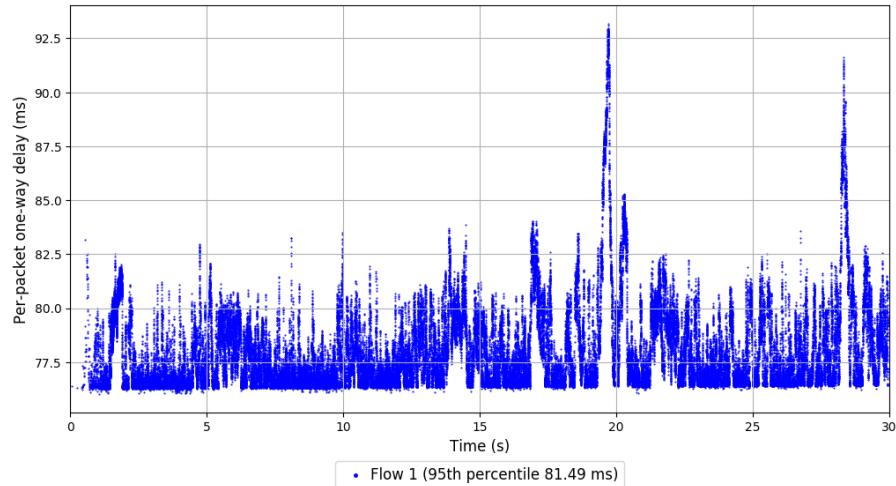
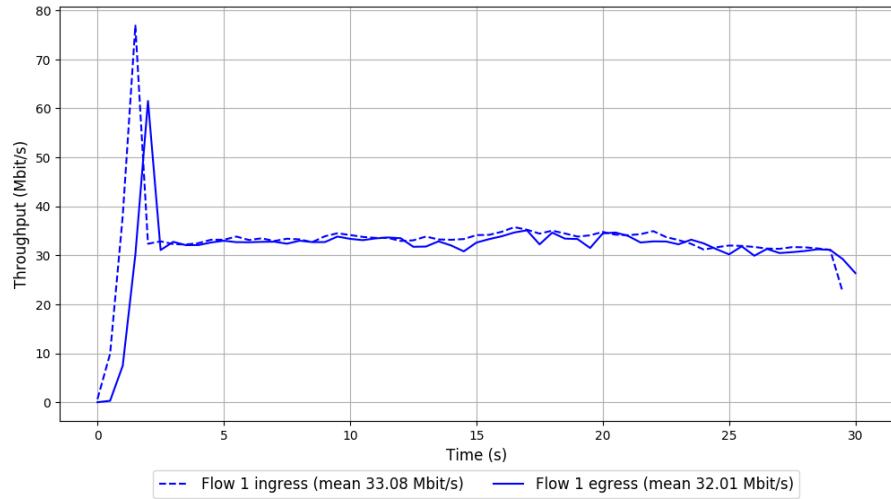
Figure is missing

```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-07-11 18:48:08
End at: 2019-07-11 18:48:38
Local clock offset: -7.505 ms
Remote clock offset: -5.772 ms

# Below is generated by plot.py at 2019-07-11 20:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.01 Mbit/s
95th percentile per-packet one-way delay: 81.488 ms
Loss rate: 3.21%
-- Flow 1:
Average throughput: 32.01 Mbit/s
95th percentile per-packet one-way delay: 81.488 ms
Loss rate: 3.21%
```

Run 1: Report of PCC-Allegro — Data Link

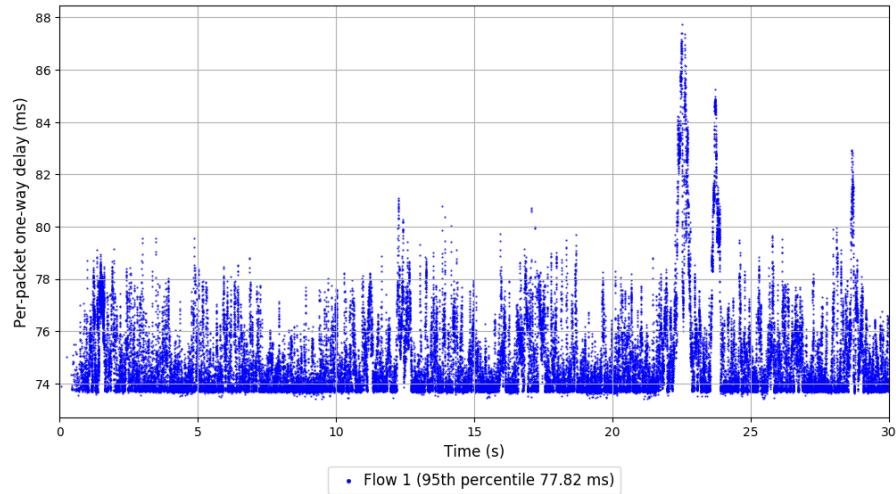
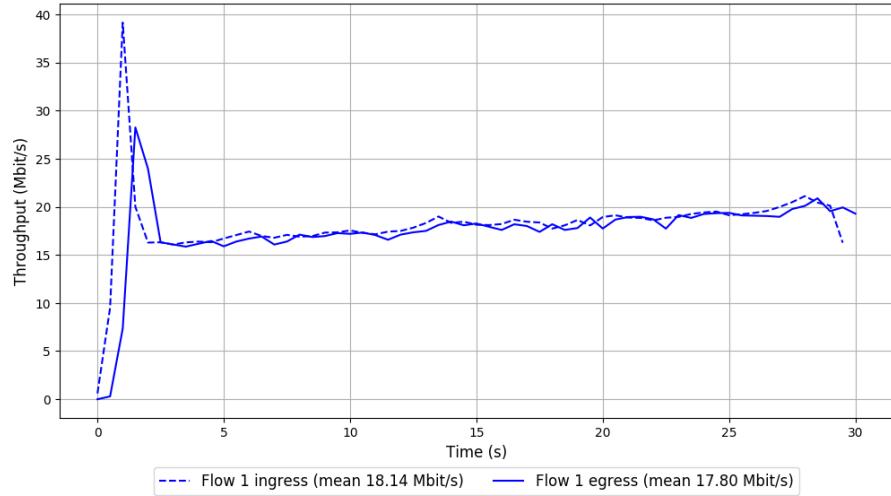


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-07-11 19:16:01
End at: 2019-07-11 19:16:31
Local clock offset: -6.264 ms
Remote clock offset: -8.239 ms

# Below is generated by plot.py at 2019-07-11 20:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 17.80 Mbit/s
95th percentile per-packet one-way delay: 77.823 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 17.80 Mbit/s
95th percentile per-packet one-way delay: 77.823 ms
Loss rate: 1.89%
```

Run 2: Report of PCC-Allegro — Data Link

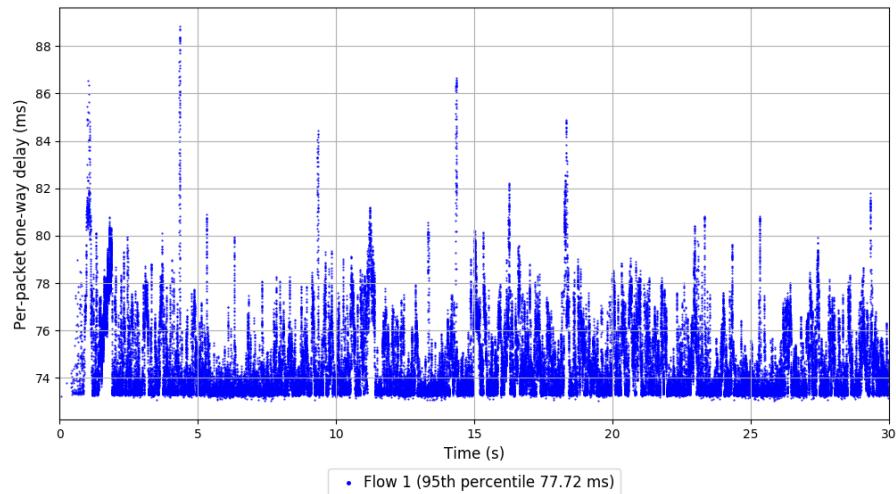
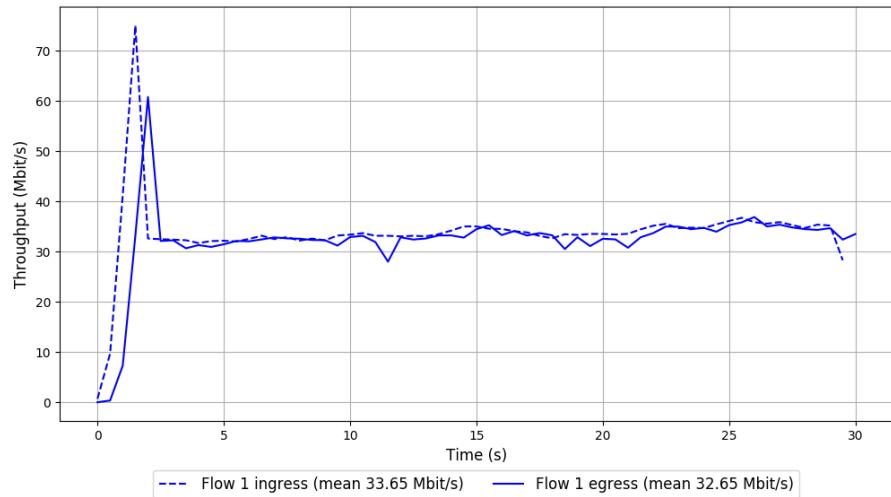


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-07-11 19:43:41
End at: 2019-07-11 19:44:11
Local clock offset: -6.415 ms
Remote clock offset: -6.627 ms

# Below is generated by plot.py at 2019-07-11 20:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.65 Mbit/s
95th percentile per-packet one-way delay: 77.717 ms
Loss rate: 2.96%
-- Flow 1:
Average throughput: 32.65 Mbit/s
95th percentile per-packet one-way delay: 77.717 ms
Loss rate: 2.96%
```

Run 3: Report of PCC-Allegro — Data Link

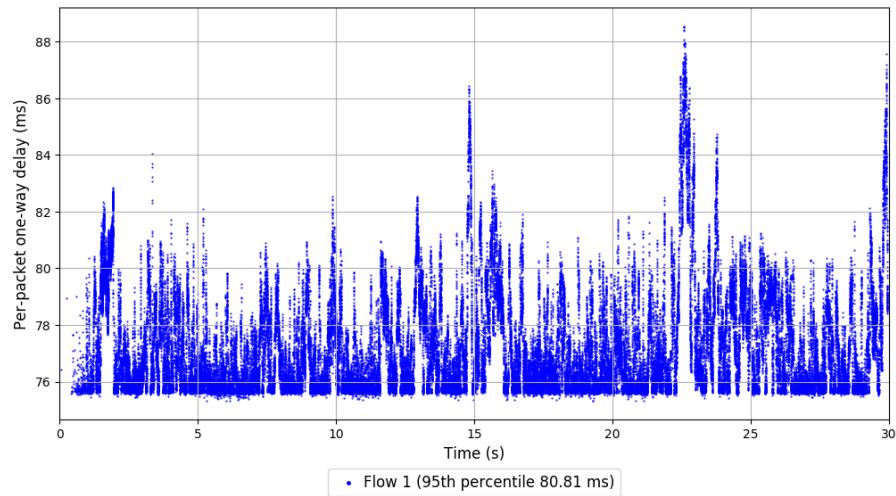
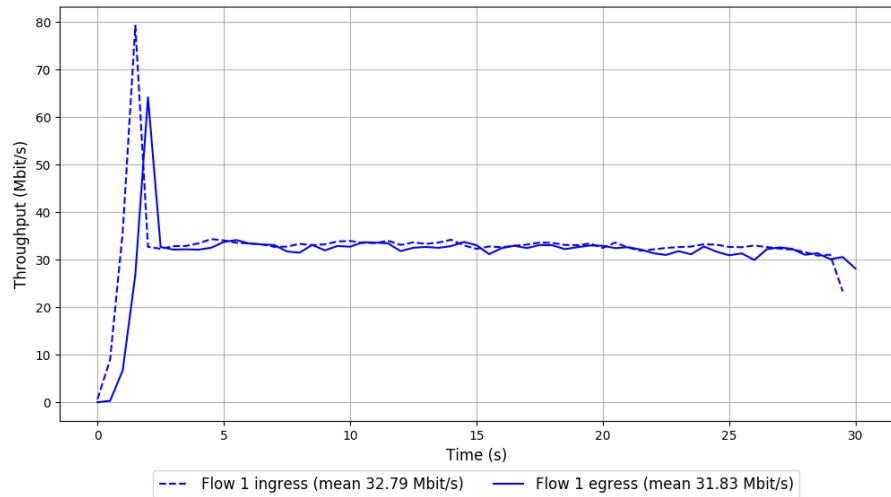


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-07-11 20:11:29
End at: 2019-07-11 20:11:59
Local clock offset: -7.735 ms
Remote clock offset: -7.961 ms

# Below is generated by plot.py at 2019-07-11 20:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.83 Mbit/s
95th percentile per-packet one-way delay: 80.810 ms
Loss rate: 2.94%
-- Flow 1:
Average throughput: 31.83 Mbit/s
95th percentile per-packet one-way delay: 80.810 ms
Loss rate: 2.94%
```

Run 4: Report of PCC-Allegro — Data Link

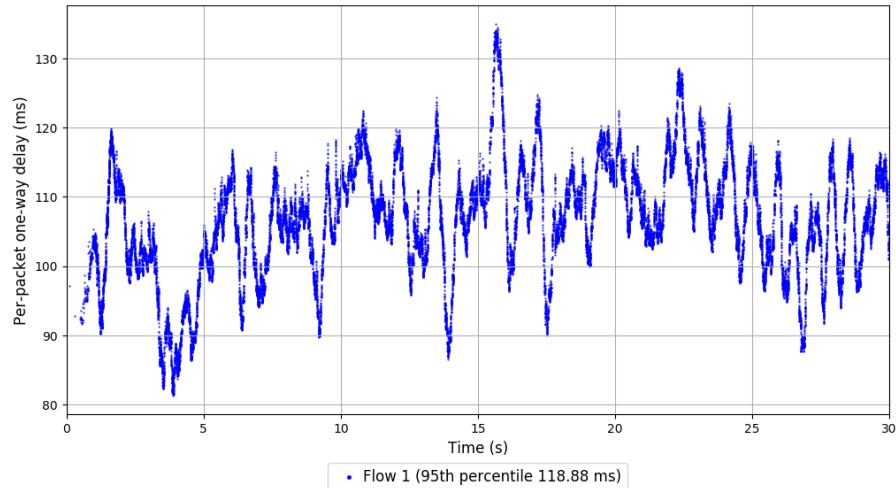
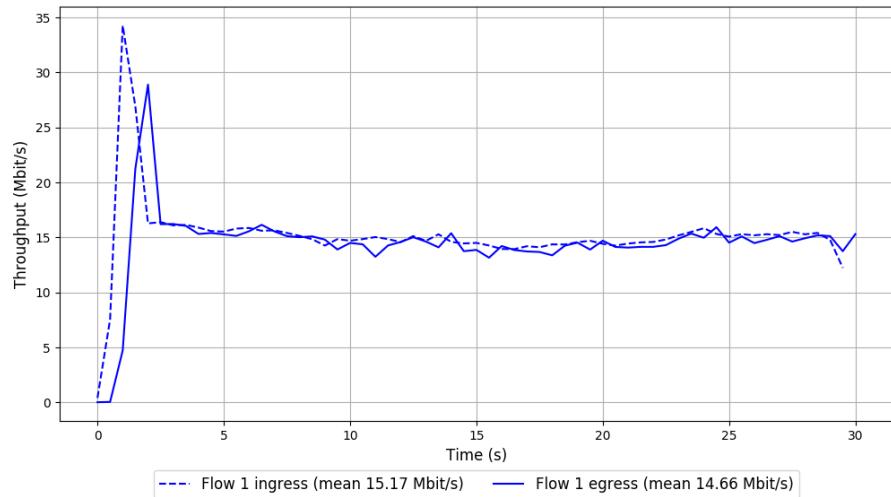


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-07-11 20:39:48
End at: 2019-07-11 20:40:18
Local clock offset: -6.924 ms
Remote clock offset: -25.922 ms

# Below is generated by plot.py at 2019-07-11 20:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.66 Mbit/s
95th percentile per-packet one-way delay: 118.884 ms
Loss rate: 3.32%
-- Flow 1:
Average throughput: 14.66 Mbit/s
95th percentile per-packet one-way delay: 118.884 ms
Loss rate: 3.32%
```

Run 5: Report of PCC-Allegro — Data Link

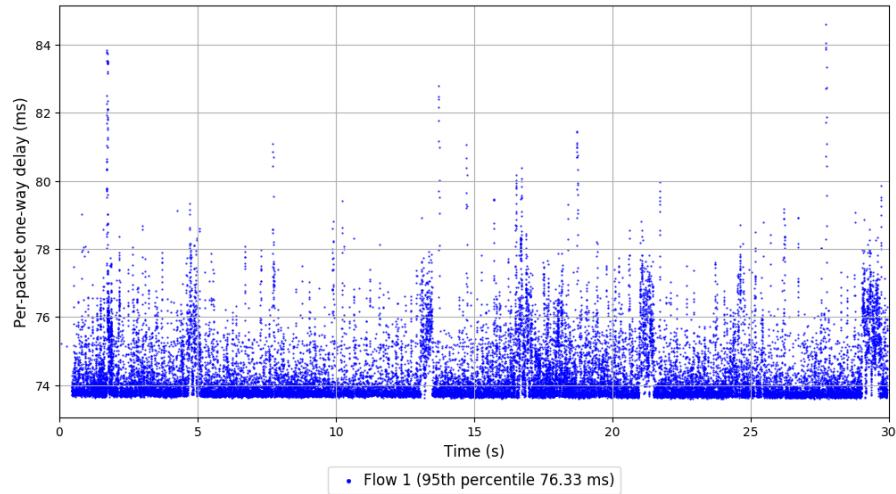
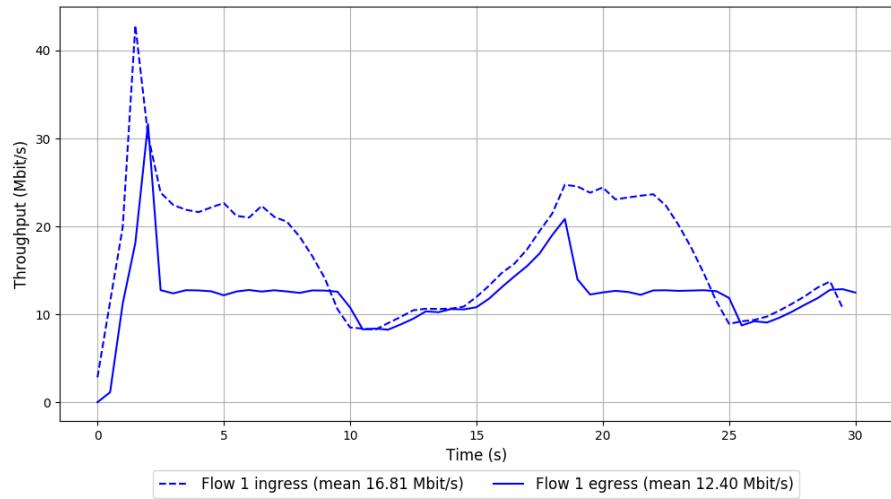


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-07-11 18:38:49
End at: 2019-07-11 18:39:19
Local clock offset: -6.391 ms
Remote clock offset: -5.131 ms

# Below is generated by plot.py at 2019-07-11 20:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.40 Mbit/s
95th percentile per-packet one-way delay: 76.333 ms
Loss rate: 26.23%
-- Flow 1:
Average throughput: 12.40 Mbit/s
95th percentile per-packet one-way delay: 76.333 ms
Loss rate: 26.23%
```

Run 1: Report of PCC-Expr — Data Link

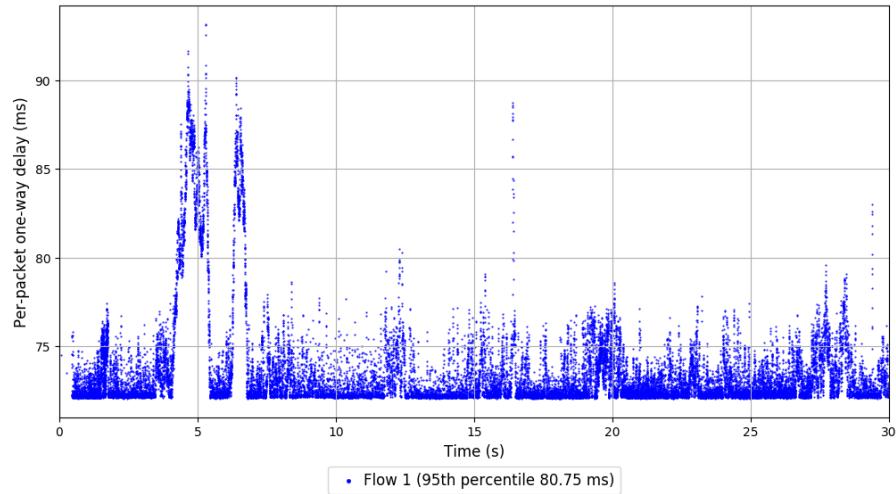
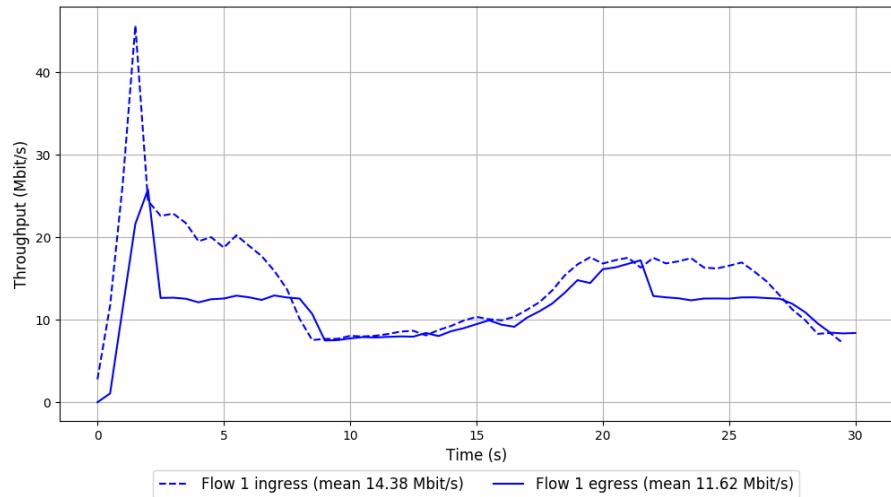


Run 2: Statistics of PCC-Expr

```
Start at: 2019-07-11 19:06:41
End at: 2019-07-11 19:07:11
Local clock offset: -5.939 ms
Remote clock offset: -7.551 ms

# Below is generated by plot.py at 2019-07-11 20:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.62 Mbit/s
95th percentile per-packet one-way delay: 80.751 ms
Loss rate: 19.22%
-- Flow 1:
Average throughput: 11.62 Mbit/s
95th percentile per-packet one-way delay: 80.751 ms
Loss rate: 19.22%
```

Run 2: Report of PCC-Expr — Data Link

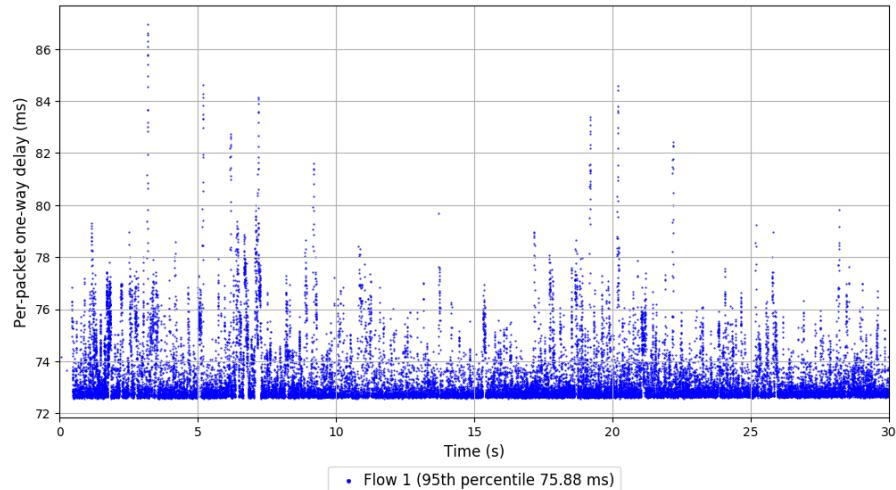
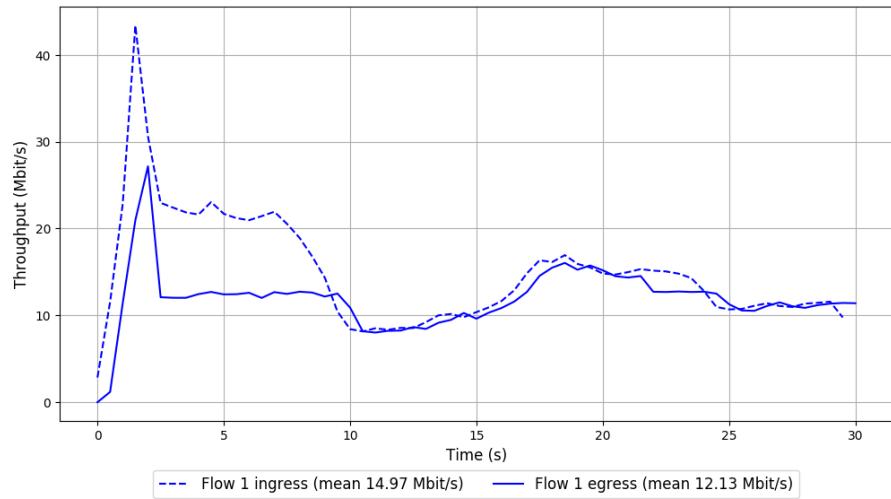


Run 3: Statistics of PCC-Expr

```
Start at: 2019-07-11 19:34:21
End at: 2019-07-11 19:34:51
Local clock offset: -6.718 ms
Remote clock offset: -7.694 ms

# Below is generated by plot.py at 2019-07-11 20:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.13 Mbit/s
95th percentile per-packet one-way delay: 75.877 ms
Loss rate: 19.02%
-- Flow 1:
Average throughput: 12.13 Mbit/s
95th percentile per-packet one-way delay: 75.877 ms
Loss rate: 19.02%
```

Run 3: Report of PCC-Expr — Data Link

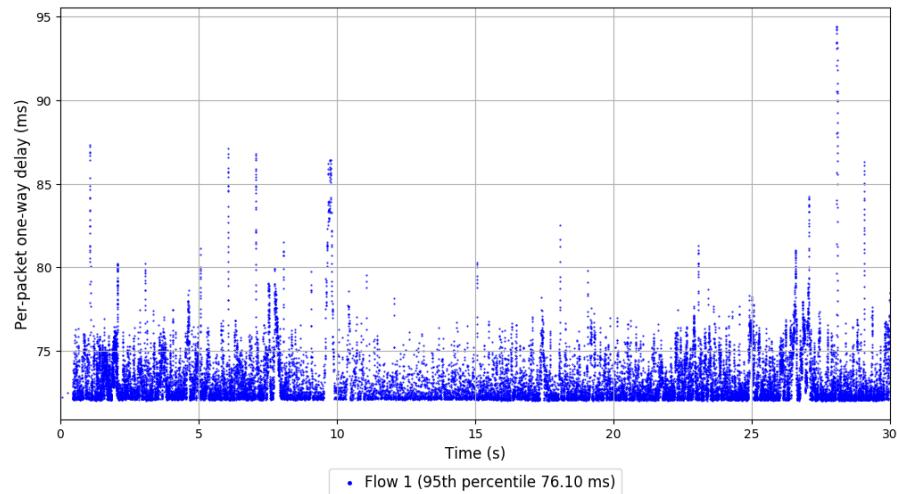
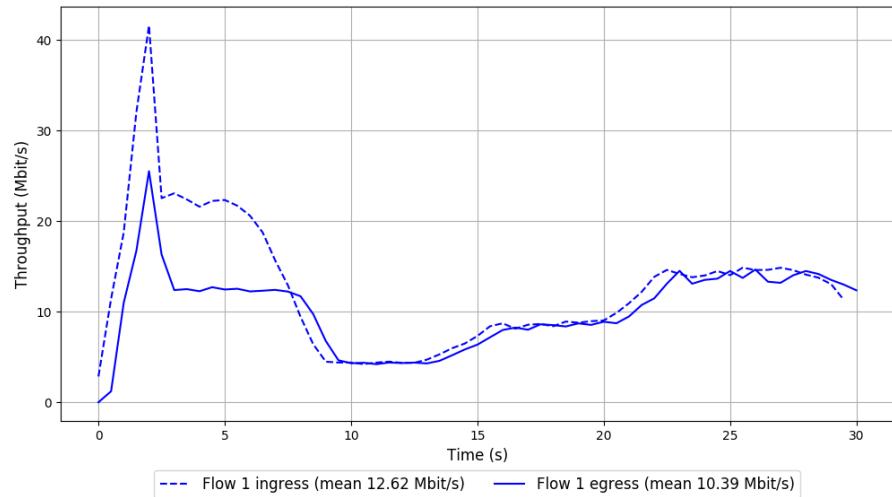


Run 4: Statistics of PCC-Expr

```
Start at: 2019-07-11 20:02:09
End at: 2019-07-11 20:02:40
Local clock offset: -6.701 ms
Remote clock offset: -8.534 ms

# Below is generated by plot.py at 2019-07-11 20:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.39 Mbit/s
95th percentile per-packet one-way delay: 76.104 ms
Loss rate: 17.64%
-- Flow 1:
Average throughput: 10.39 Mbit/s
95th percentile per-packet one-way delay: 76.104 ms
Loss rate: 17.64%
```

Run 4: Report of PCC-Expr — Data Link

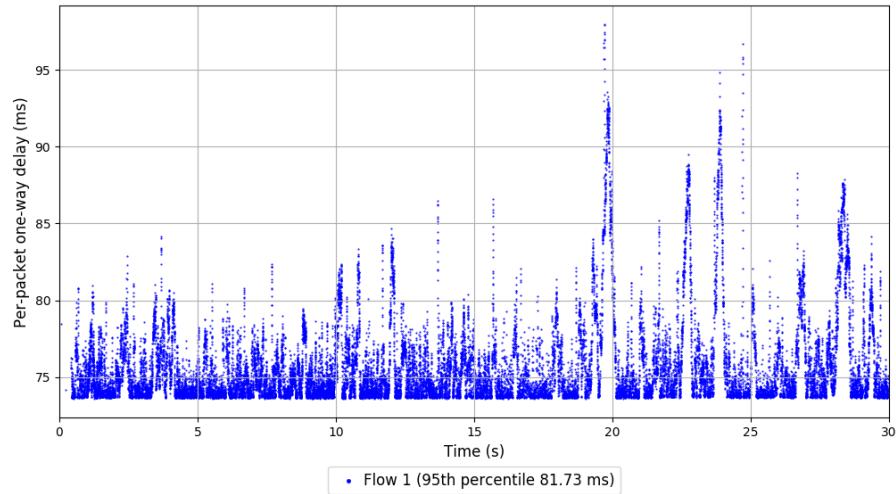
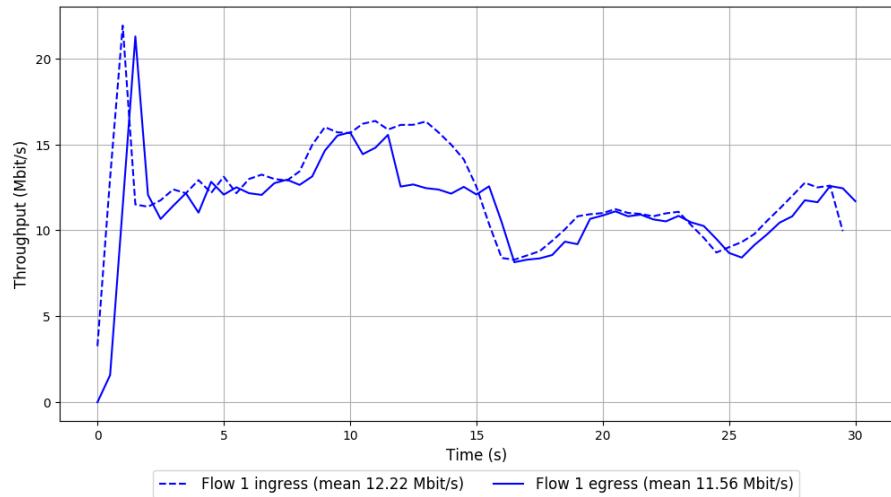


Run 5: Statistics of PCC-Expr

```
Start at: 2019-07-11 20:30:19
End at: 2019-07-11 20:30:49
Local clock offset: -8.403 ms
Remote clock offset: -8.252 ms

# Below is generated by plot.py at 2019-07-11 20:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.56 Mbit/s
95th percentile per-packet one-way delay: 81.728 ms
Loss rate: 5.47%
-- Flow 1:
Average throughput: 11.56 Mbit/s
95th percentile per-packet one-way delay: 81.728 ms
Loss rate: 5.47%
```

Run 5: Report of PCC-Expr — Data Link

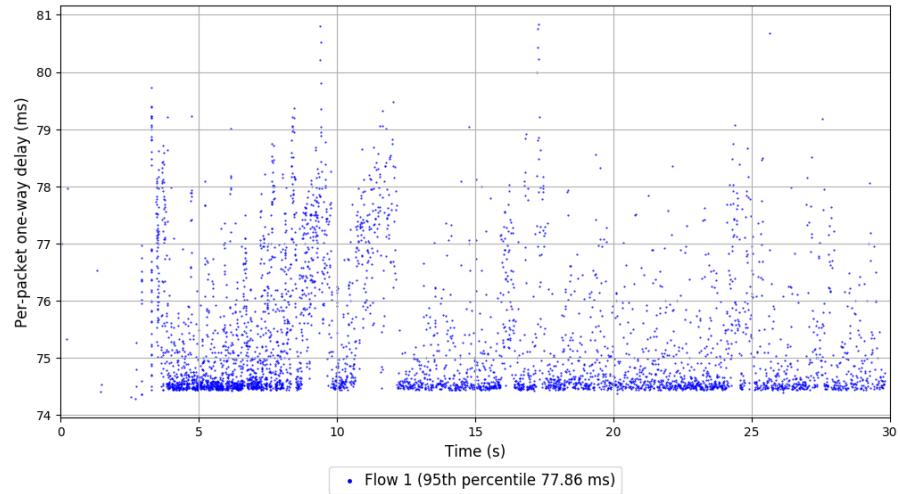
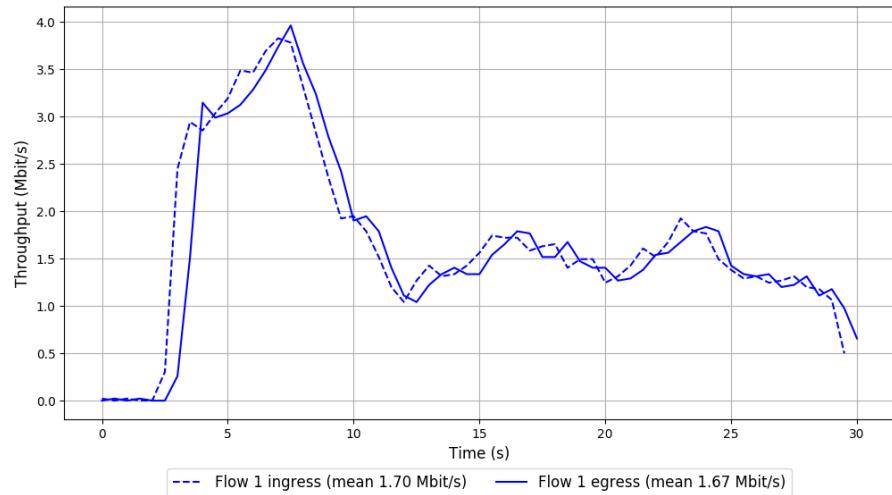


Run 1: Statistics of QUIC Cubic

```
Start at: 2019-07-11 18:55:03
End at: 2019-07-11 18:55:33
Local clock offset: -6.885 ms
Remote clock offset: -7.521 ms

# Below is generated by plot.py at 2019-07-11 20:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.67 Mbit/s
95th percentile per-packet one-way delay: 77.857 ms
Loss rate: 1.90%
-- Flow 1:
Average throughput: 1.67 Mbit/s
95th percentile per-packet one-way delay: 77.857 ms
Loss rate: 1.90%
```

Run 1: Report of QUIC Cubic — Data Link

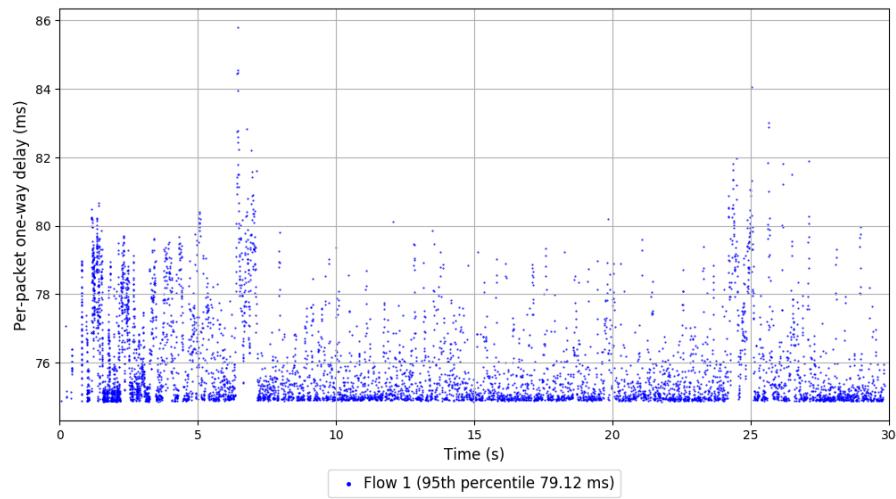
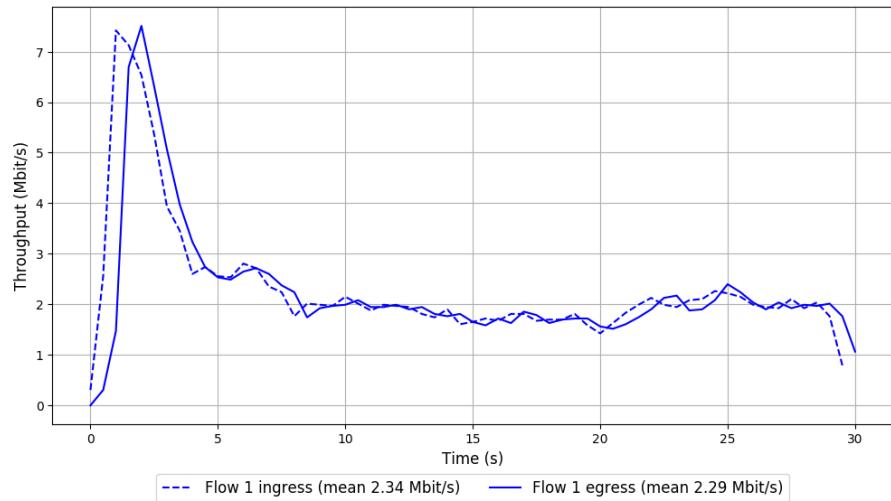


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-07-11 19:22:51
End at: 2019-07-11 19:23:21
Local clock offset: -7.363 ms
Remote clock offset: -7.736 ms

# Below is generated by plot.py at 2019-07-11 20:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 79.118 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 79.118 ms
Loss rate: 2.01%
```

Run 2: Report of QUIC Cubic — Data Link

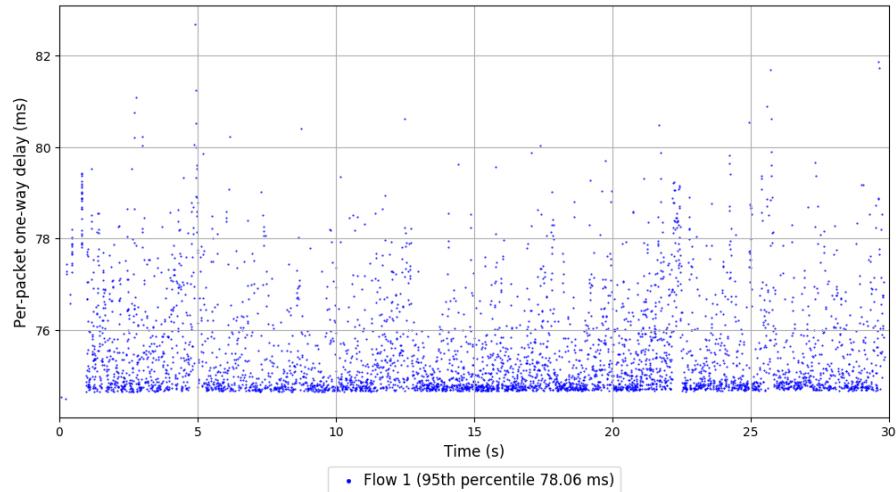
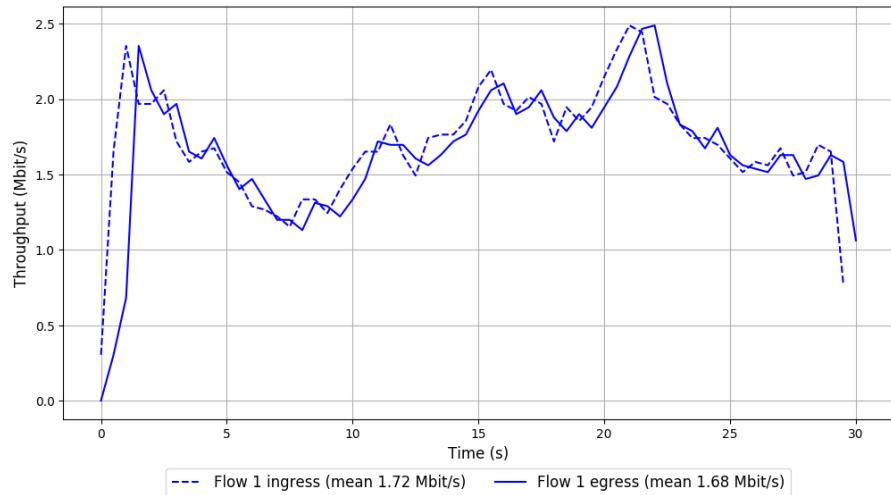


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-07-11 19:50:37
End at: 2019-07-11 19:51:07
Local clock offset: -6.534 ms
Remote clock offset: -7.657 ms

# Below is generated by plot.py at 2019-07-11 20:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.68 Mbit/s
95th percentile per-packet one-way delay: 78.060 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 1.68 Mbit/s
95th percentile per-packet one-way delay: 78.060 ms
Loss rate: 1.95%
```

Run 3: Report of QUIC Cubic — Data Link

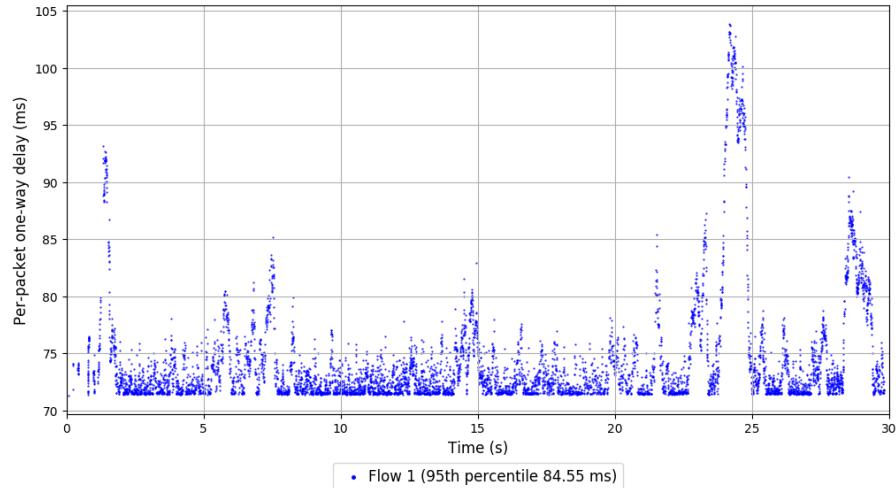
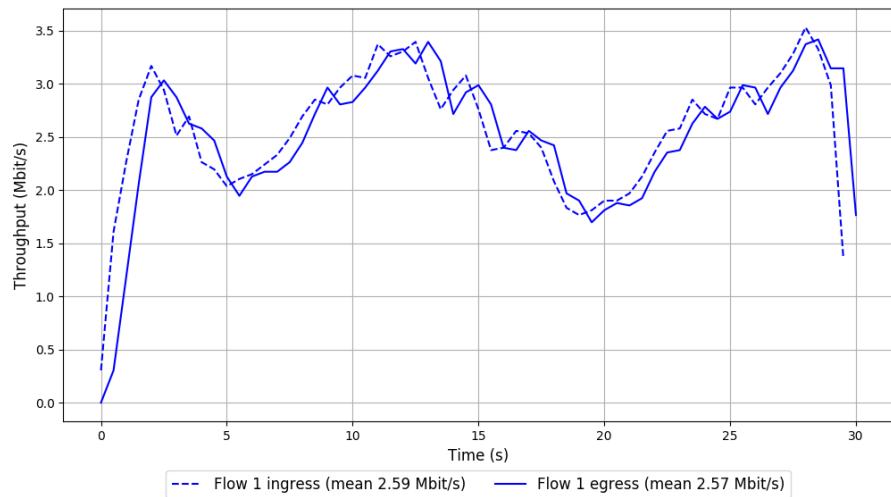


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-07-11 20:18:19
End at: 2019-07-11 20:18:49
Local clock offset: -7.097 ms
Remote clock offset: -9.224 ms

# Below is generated by plot.py at 2019-07-11 20:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.57 Mbit/s
95th percentile per-packet one-way delay: 84.548 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 2.57 Mbit/s
95th percentile per-packet one-way delay: 84.548 ms
Loss rate: 0.72%
```

Run 4: Report of QUIC Cubic — Data Link

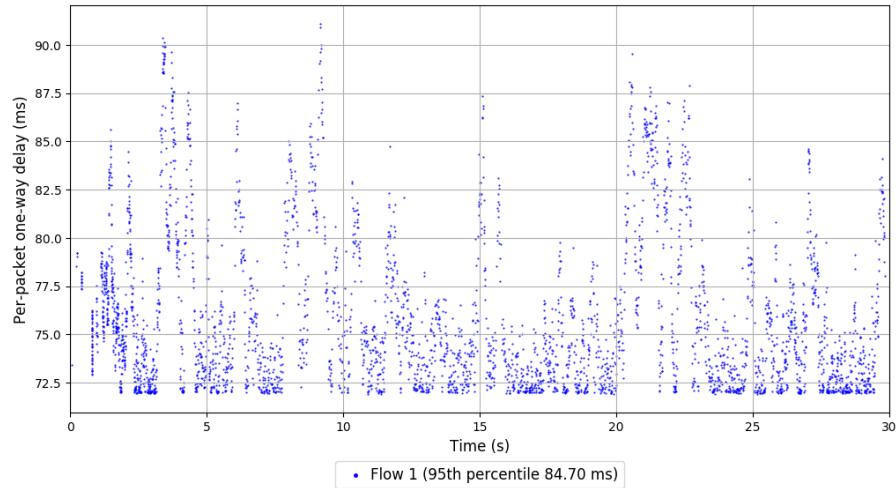
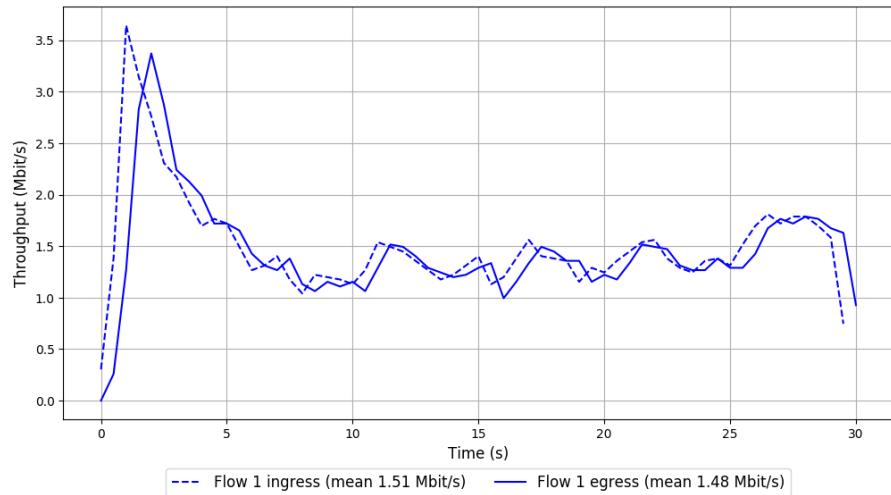


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-07-11 20:46:38
End at: 2019-07-11 20:47:08
Local clock offset: -7.722 ms
Remote clock offset: -9.844 ms

# Below is generated by plot.py at 2019-07-11 20:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: 84.700 ms
Loss rate: 2.19%
-- Flow 1:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: 84.700 ms
Loss rate: 2.19%
```

Run 5: Report of QUIC Cubic — Data Link

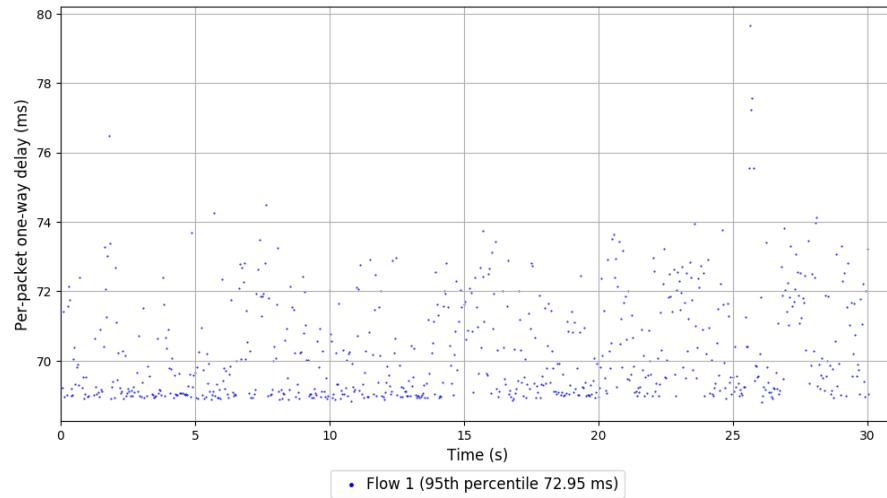
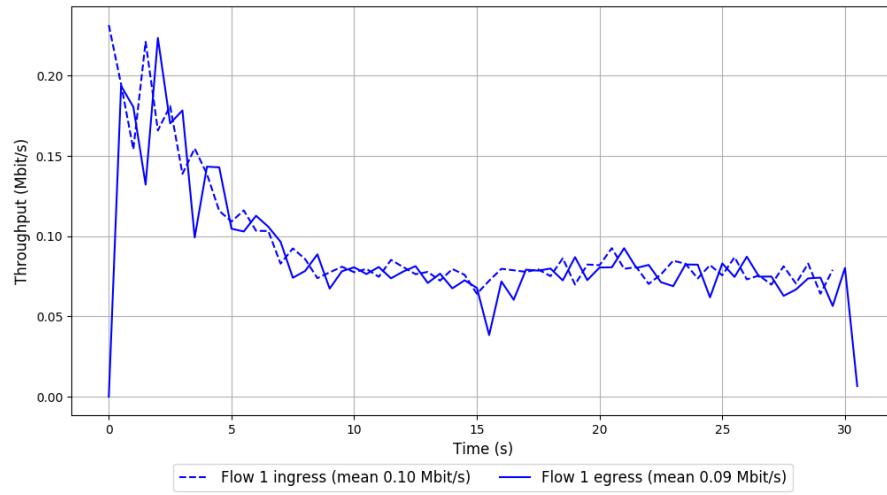


Run 1: Statistics of SCReAM

```
Start at: 2019-07-11 18:52:42
End at: 2019-07-11 18:53:12
Local clock offset: -6.747 ms
Remote clock offset: -11.36 ms

# Below is generated by plot.py at 2019-07-11 20:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 72.952 ms
Loss rate: 5.11%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 72.952 ms
Loss rate: 5.11%
```

Run 1: Report of SCReAM — Data Link

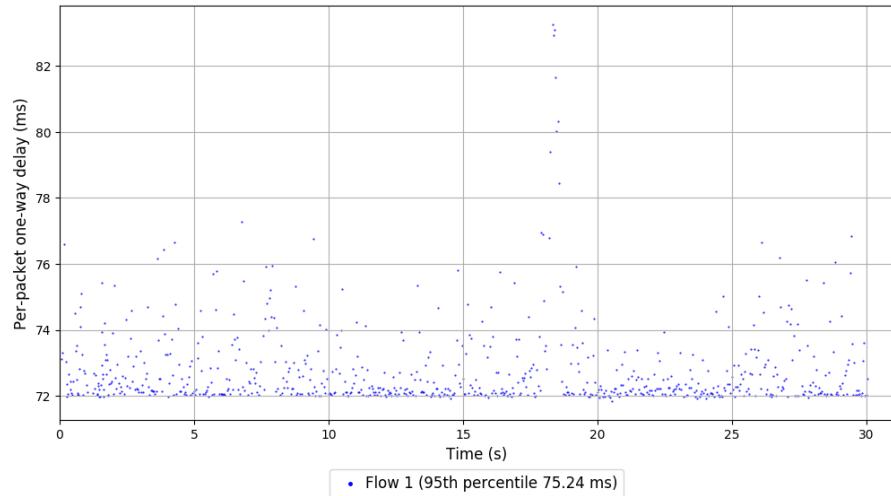
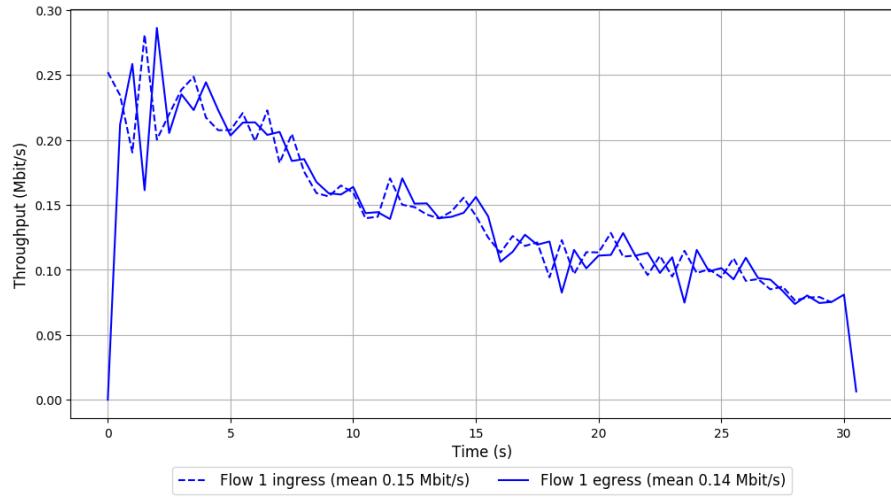


Run 2: Statistics of SCReAM

```
Start at: 2019-07-11 19:20:36
End at: 2019-07-11 19:21:06
Local clock offset: -7.269 ms
Remote clock offset: -8.378 ms

# Below is generated by plot.py at 2019-07-11 20:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 75.240 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 75.240 ms
Loss rate: 1.62%
```

Run 2: Report of SCReAM — Data Link

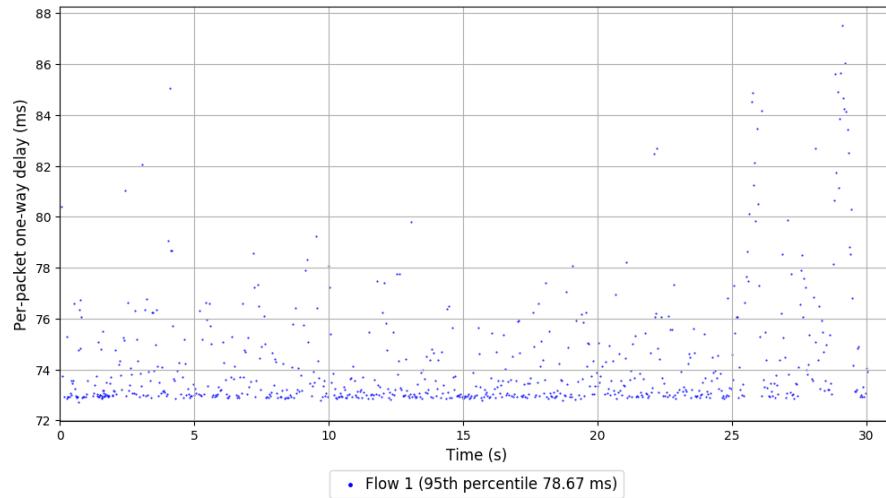
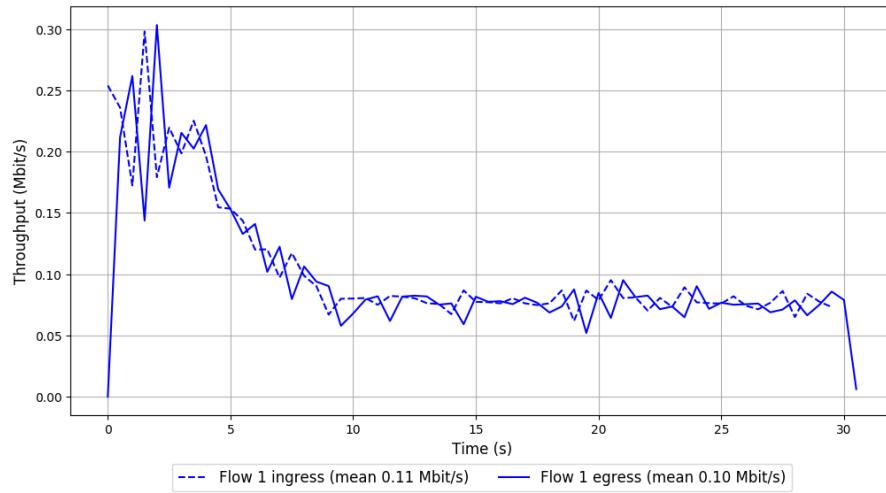


Run 3: Statistics of SCReAM

```
Start at: 2019-07-11 19:48:17
End at: 2019-07-11 19:48:47
Local clock offset: -7.419 ms
Remote clock offset: -8.489 ms

# Below is generated by plot.py at 2019-07-11 20:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 78.671 ms
Loss rate: 4.06%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 78.671 ms
Loss rate: 4.06%
```

Run 3: Report of SCReAM — Data Link

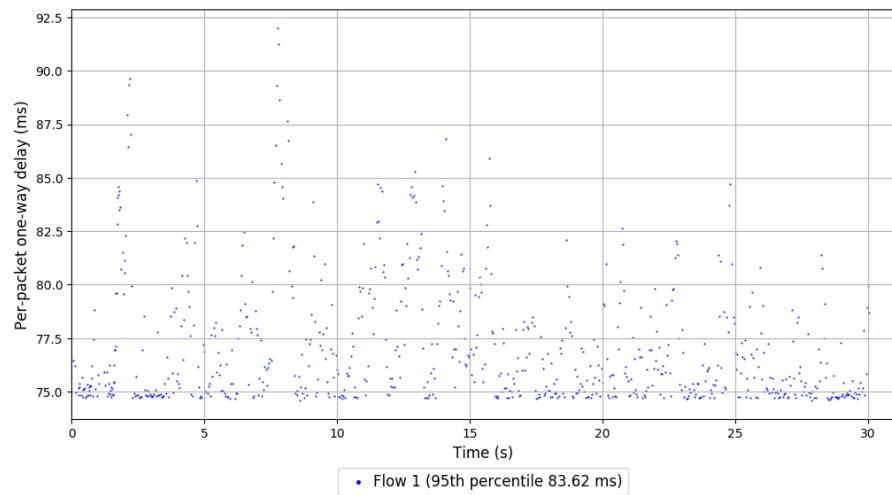
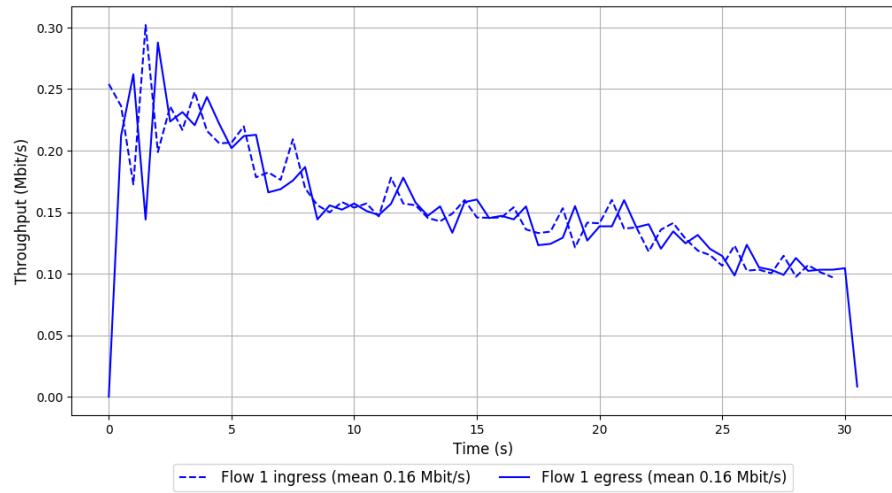


Run 4: Statistics of SCReAM

```
Start at: 2019-07-11 20:16:03
End at: 2019-07-11 20:16:33
Local clock offset: -7.092 ms
Remote clock offset: -8.165 ms

# Below is generated by plot.py at 2019-07-11 20:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 83.621 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 83.621 ms
Loss rate: 1.42%
```

Run 4: Report of SCReAM — Data Link

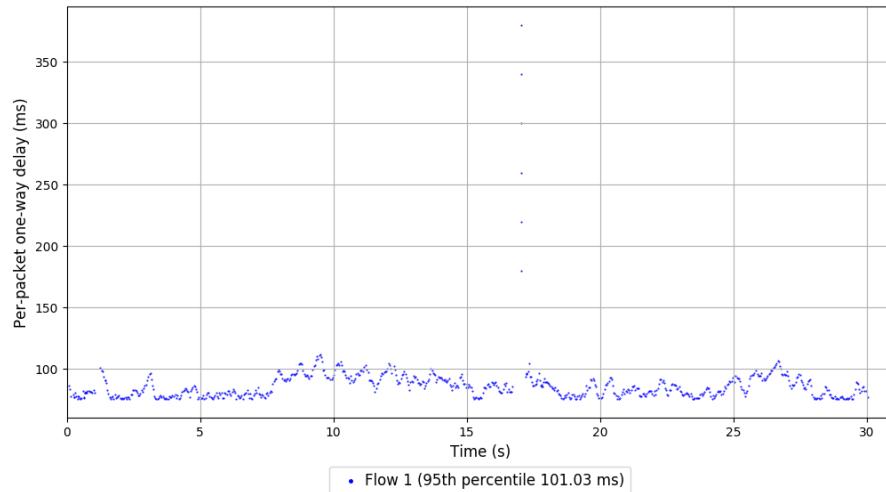
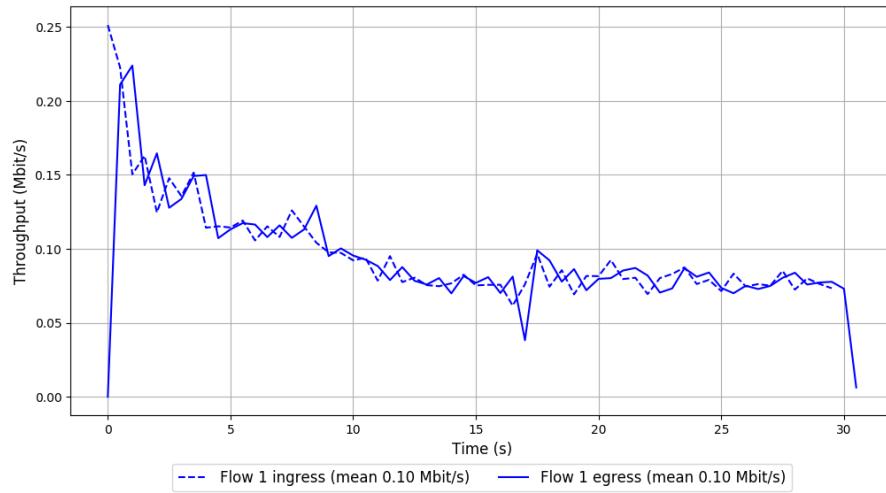


Run 5: Statistics of SCReAM

```
Start at: 2019-07-11 20:44:22
End at: 2019-07-11 20:44:52
Local clock offset: -7.772 ms
Remote clock offset: -7.679 ms

# Below is generated by plot.py at 2019-07-11 20:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 101.025 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 101.025 ms
Loss rate: 1.26%
```

Run 5: Report of SCReAM — Data Link

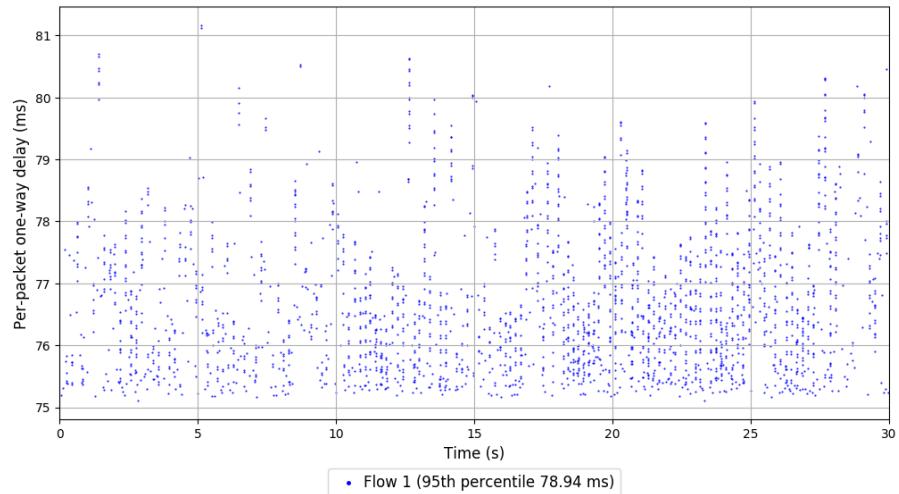
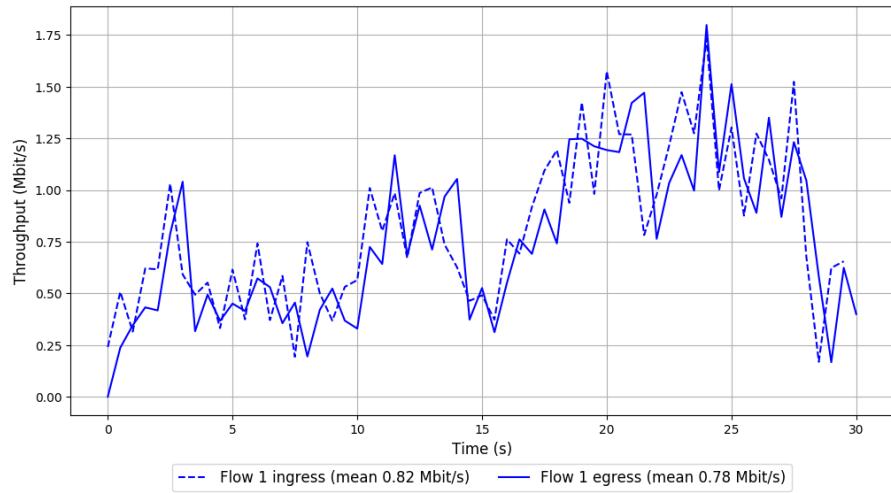


Run 1: Statistics of Sprout

```
Start at: 2019-07-11 18:53:50
End at: 2019-07-11 18:54:20
Local clock offset: -6.712 ms
Remote clock offset: -6.47 ms

# Below is generated by plot.py at 2019-07-11 20:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 78.944 ms
Loss rate: 5.06%
-- Flow 1:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 78.944 ms
Loss rate: 5.06%
```

Run 1: Report of Sprout — Data Link

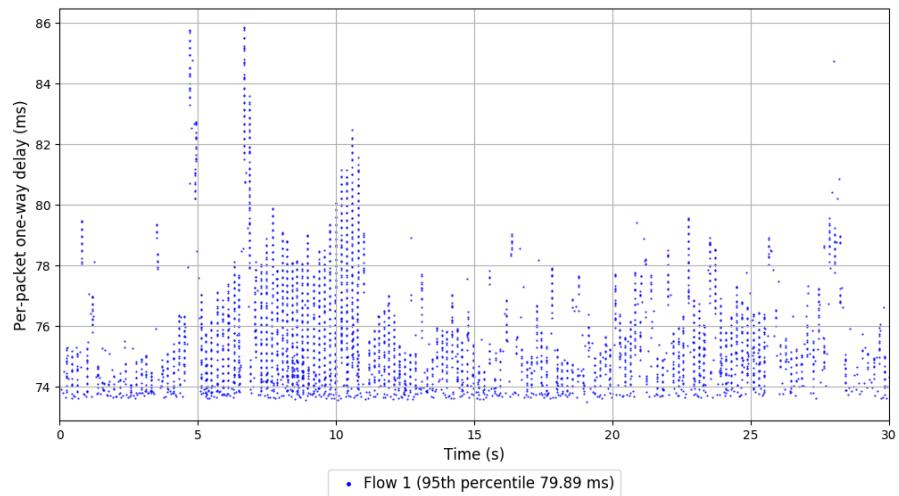
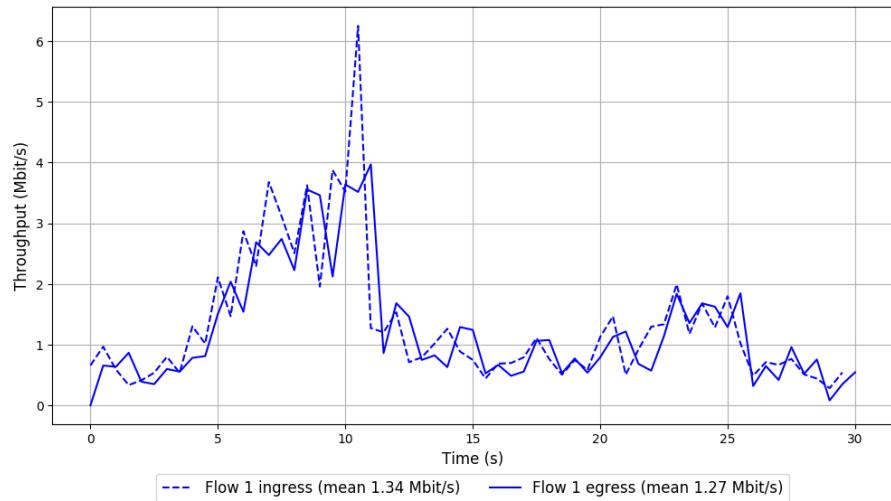


Run 2: Statistics of Sprout

```
Start at: 2019-07-11 19:21:43
End at: 2019-07-11 19:22:13
Local clock offset: -7.319 ms
Remote clock offset: -6.379 ms

# Below is generated by plot.py at 2019-07-11 20:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.27 Mbit/s
95th percentile per-packet one-way delay: 79.890 ms
Loss rate: 5.43%
-- Flow 1:
Average throughput: 1.27 Mbit/s
95th percentile per-packet one-way delay: 79.890 ms
Loss rate: 5.43%
```

Run 2: Report of Sprout — Data Link

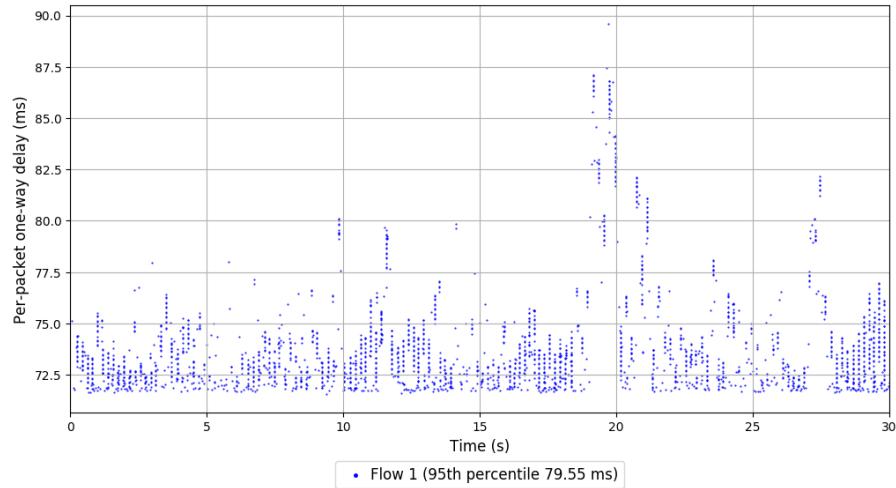
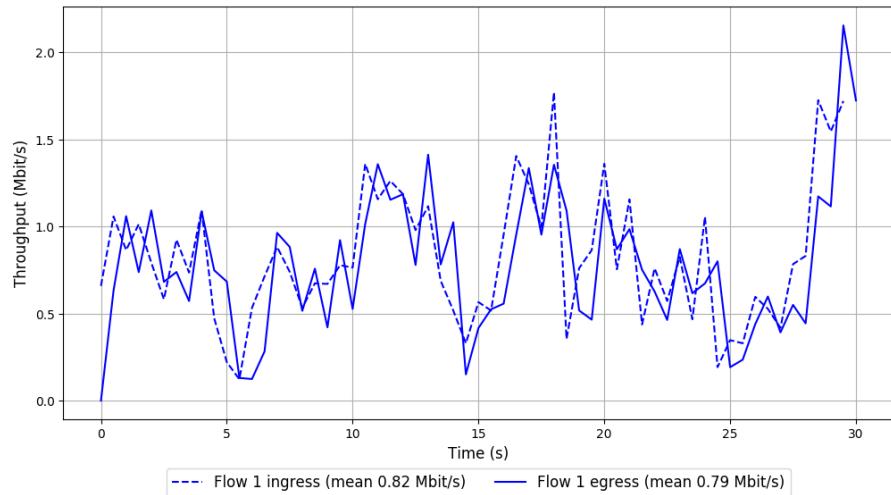


Run 3: Statistics of Sprout

```
Start at: 2019-07-11 19:49:29
End at: 2019-07-11 19:49:59
Local clock offset: -6.501 ms
Remote clock offset: -8.26 ms

# Below is generated by plot.py at 2019-07-11 20:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.79 Mbit/s
95th percentile per-packet one-way delay: 79.554 ms
Loss rate: 3.72%
-- Flow 1:
Average throughput: 0.79 Mbit/s
95th percentile per-packet one-way delay: 79.554 ms
Loss rate: 3.72%
```

Run 3: Report of Sprout — Data Link

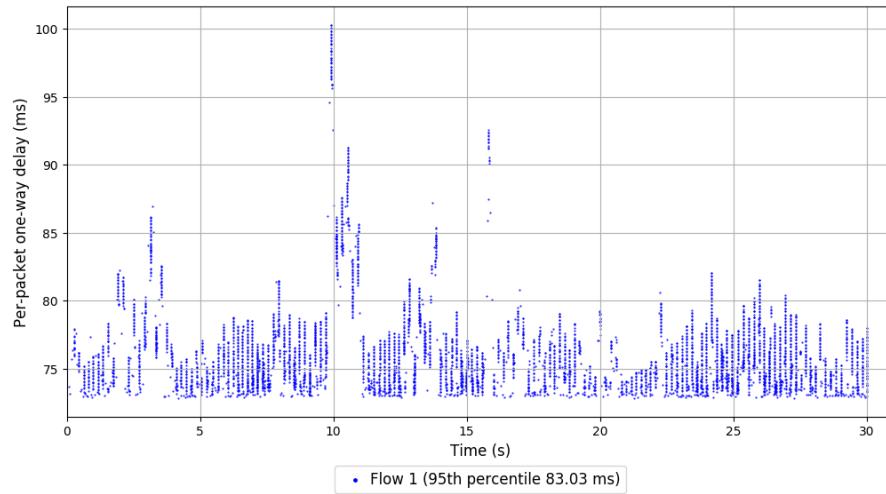
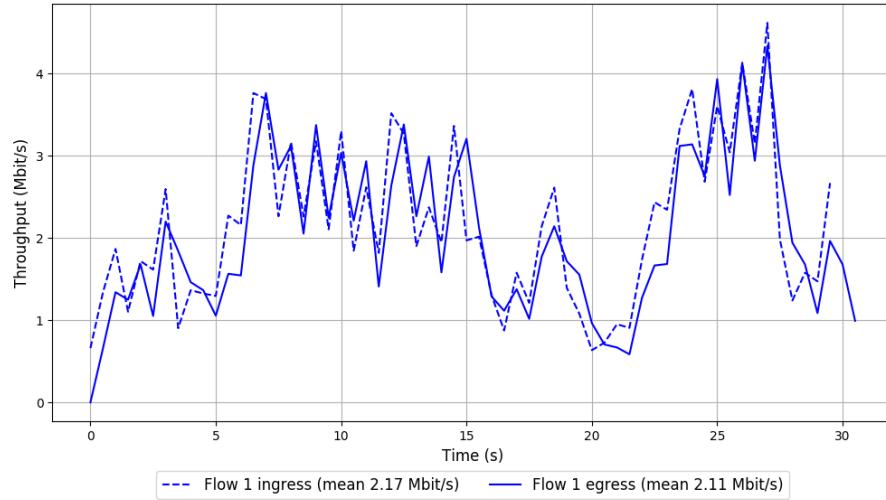


Run 4: Statistics of Sprout

```
Start at: 2019-07-11 20:17:11
End at: 2019-07-11 20:17:41
Local clock offset: -7.261 ms
Remote clock offset: -8.067 ms

# Below is generated by plot.py at 2019-07-11 20:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 83.032 ms
Loss rate: 2.62%
-- Flow 1:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 83.032 ms
Loss rate: 2.62%
```

Run 4: Report of Sprout — Data Link

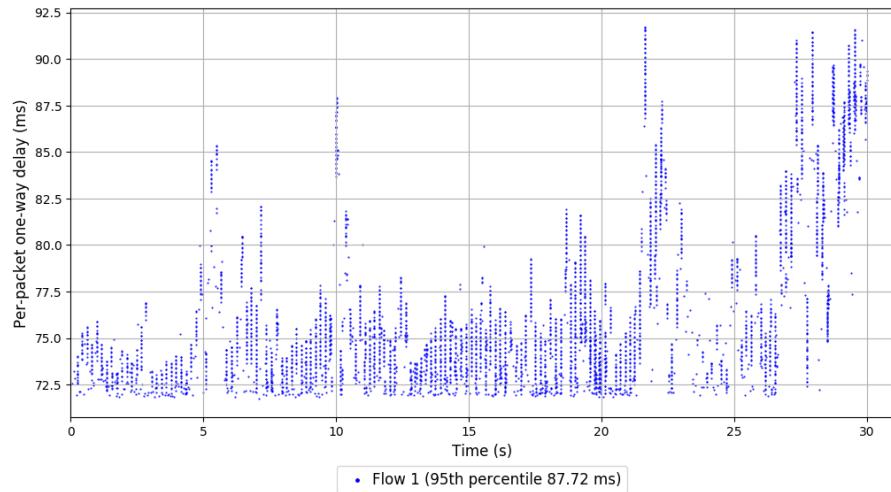
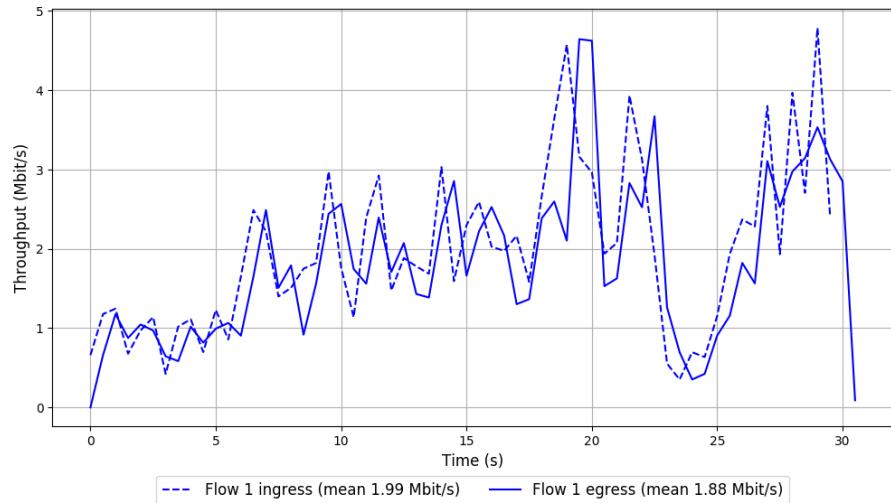


Run 5: Statistics of Sprout

```
Start at: 2019-07-11 20:45:30
End at: 2019-07-11 20:46:00
Local clock offset: -7.71 ms
Remote clock offset: -9.51 ms

# Below is generated by plot.py at 2019-07-11 20:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 87.719 ms
Loss rate: 5.43%
-- Flow 1:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 87.719 ms
Loss rate: 5.43%
```

Run 5: Report of Sprout — Data Link

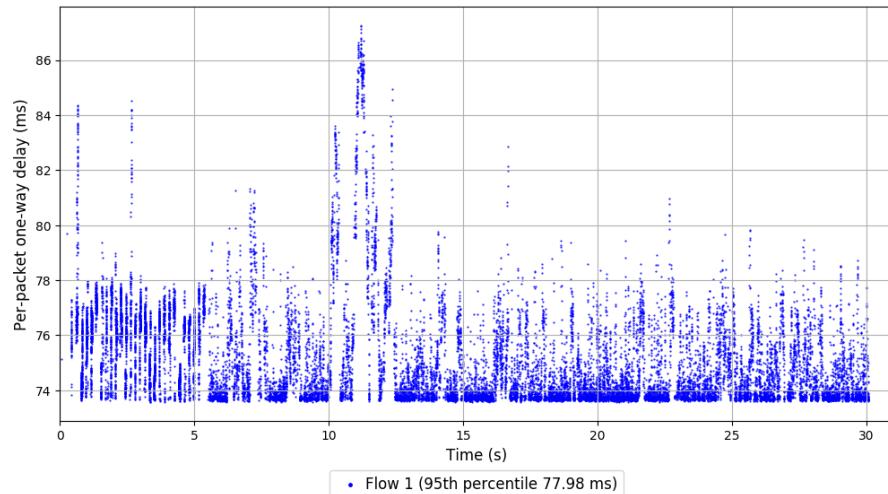
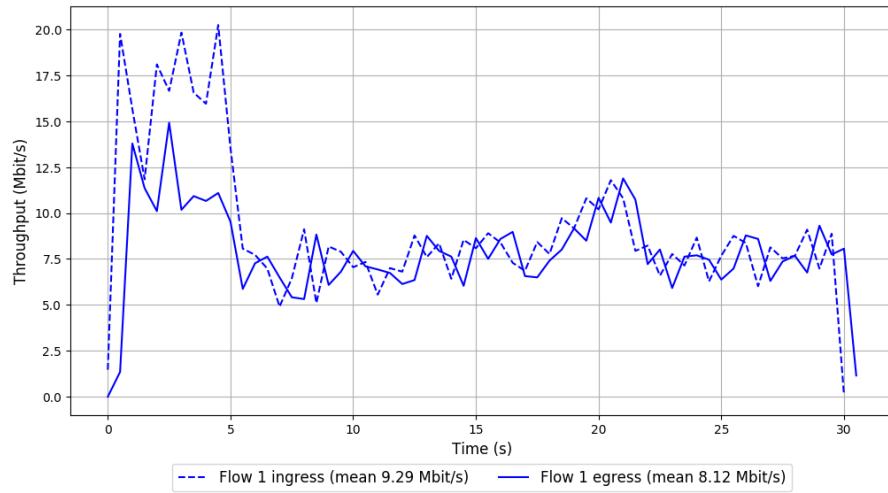


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-07-11 18:35:08
End at: 2019-07-11 18:35:38
Local clock offset: -6.832 ms
Remote clock offset: -5.838 ms

# Below is generated by plot.py at 2019-07-11 20:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.12 Mbit/s
95th percentile per-packet one-way delay: 77.982 ms
Loss rate: 12.64%
-- Flow 1:
Average throughput: 8.12 Mbit/s
95th percentile per-packet one-way delay: 77.982 ms
Loss rate: 12.64%
```

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

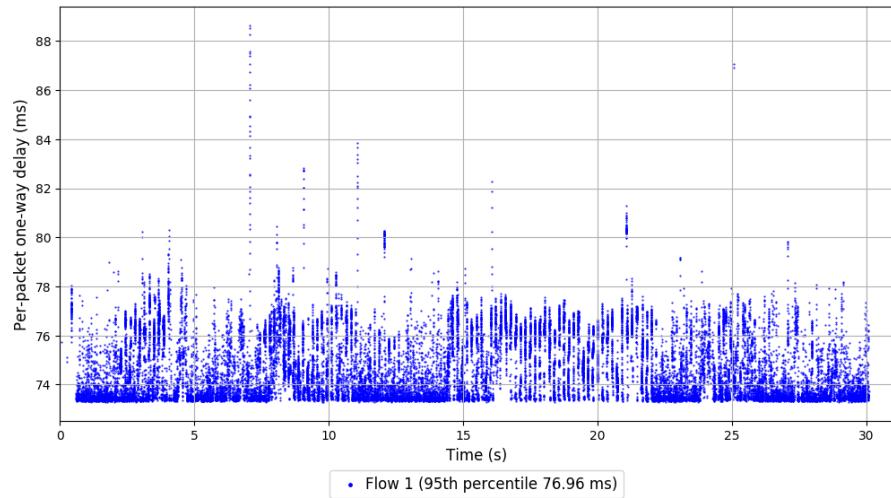
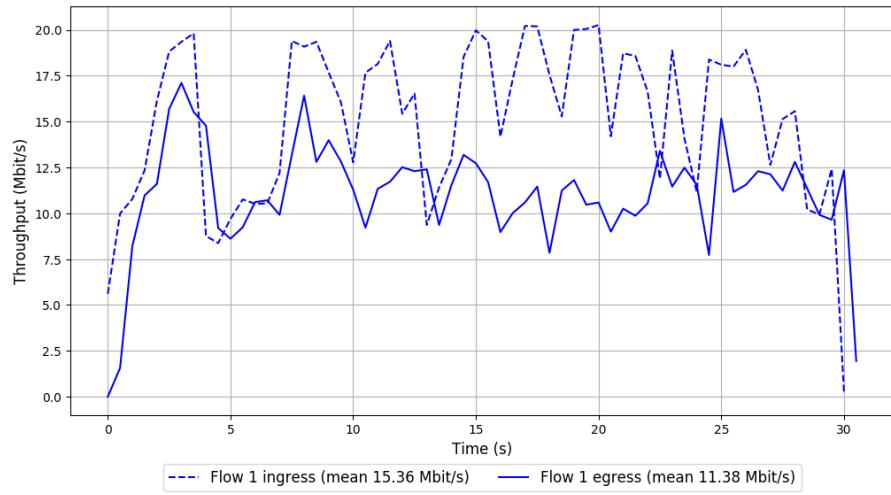


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-07-11 19:03:08
End at: 2019-07-11 19:03:38
Local clock offset: -6.917 ms
Remote clock offset: -7.308 ms

# Below is generated by plot.py at 2019-07-11 20:55:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.38 Mbit/s
95th percentile per-packet one-way delay: 76.958 ms
Loss rate: 25.93%
-- Flow 1:
Average throughput: 11.38 Mbit/s
95th percentile per-packet one-way delay: 76.958 ms
Loss rate: 25.93%
```

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

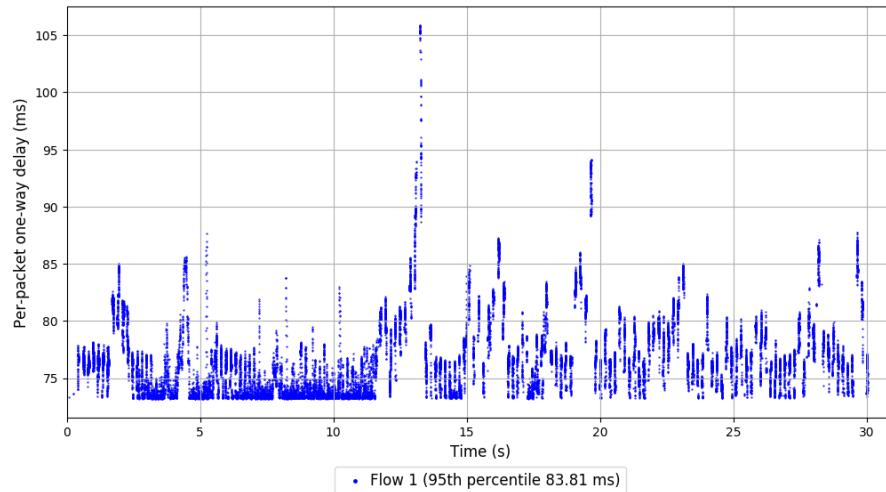
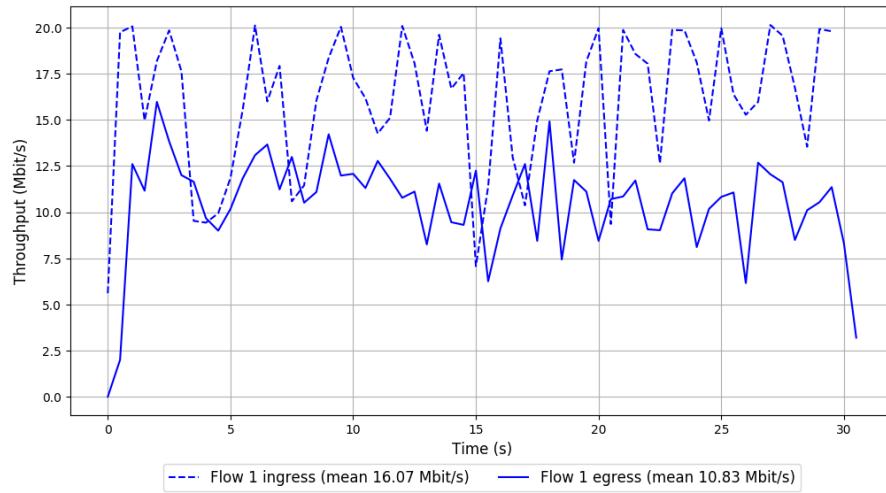


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-07-11 19:30:50
End at: 2019-07-11 19:31:20
Local clock offset: -6.725 ms
Remote clock offset: -6.817 ms

# Below is generated by plot.py at 2019-07-11 20:56:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.83 Mbit/s
95th percentile per-packet one-way delay: 83.808 ms
Loss rate: 32.59%
-- Flow 1:
Average throughput: 10.83 Mbit/s
95th percentile per-packet one-way delay: 83.808 ms
Loss rate: 32.59%
```

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

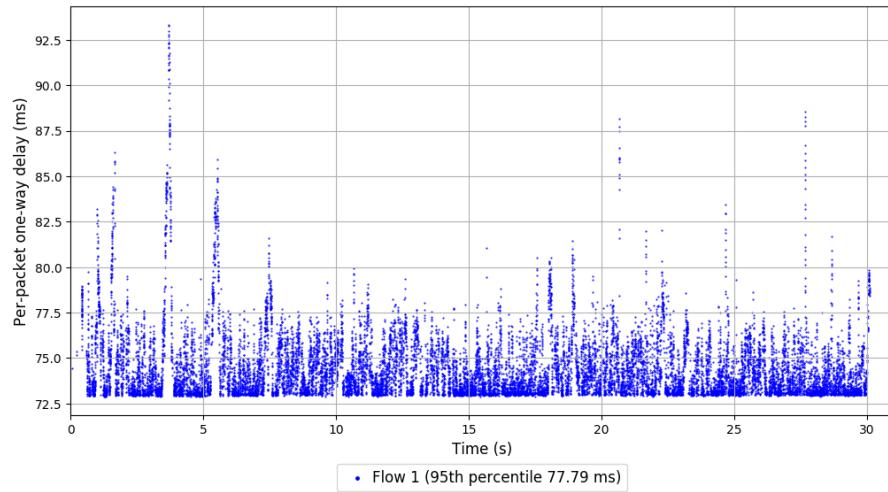
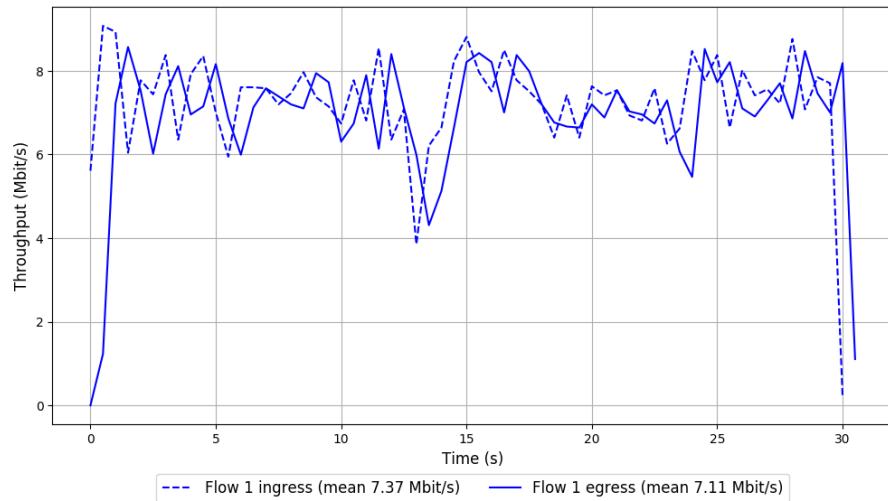


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-07-11 19:58:38
End at: 2019-07-11 19:59:08
Local clock offset: -7.699 ms
Remote clock offset: -8.566 ms

# Below is generated by plot.py at 2019-07-11 20:56:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.11 Mbit/s
95th percentile per-packet one-way delay: 77.786 ms
Loss rate: 3.43%
-- Flow 1:
Average throughput: 7.11 Mbit/s
95th percentile per-packet one-way delay: 77.786 ms
Loss rate: 3.43%
```

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

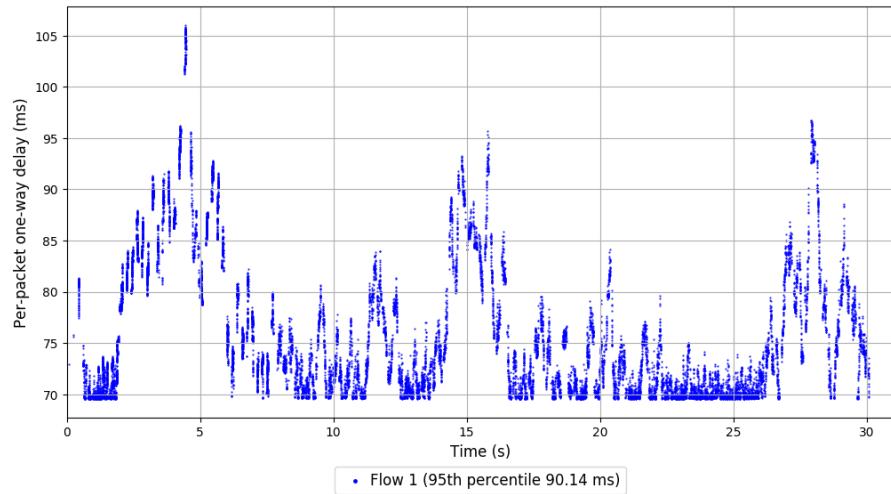
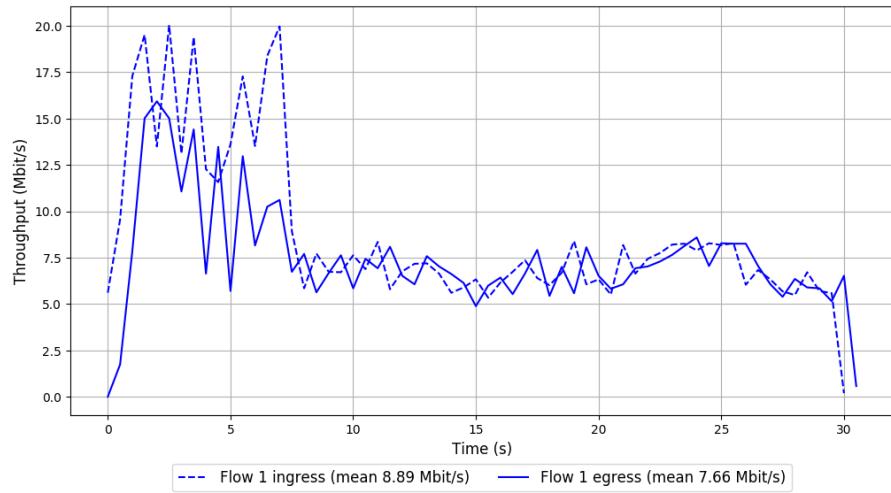


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-07-11 20:26:19
End at: 2019-07-11 20:26:49
Local clock offset: -7.355 ms
Remote clock offset: -12.612 ms

# Below is generated by plot.py at 2019-07-11 20:56:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.66 Mbit/s
95th percentile per-packet one-way delay: 90.139 ms
Loss rate: 13.85%
-- Flow 1:
Average throughput: 7.66 Mbit/s
95th percentile per-packet one-way delay: 90.139 ms
Loss rate: 13.85%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2019-07-11 18:32:53

End at: 2019-07-11 18:33:23

Local clock offset: -6.707 ms

Remote clock offset: -7.484 ms

Run 1: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of TCP Vegas

Start at: 2019-07-11 19:00:53

End at: 2019-07-11 19:01:23

Local clock offset: -5.892 ms

Remote clock offset: -8.458 ms

Run 2: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of TCP Vegas

Start at: 2019-07-11 19:28:36

End at: 2019-07-11 19:29:06

Local clock offset: -6.893 ms

Remote clock offset: -9.02 ms

Run 3: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of TCP Vegas

Start at: 2019-07-11 19:56:23

End at: 2019-07-11 19:56:53

Local clock offset: -7.477 ms

Remote clock offset: -7.422 ms

Run 4: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of TCP Vegas

Start at: 2019-07-11 20:24:04
End at: 2019-07-11 20:24:34
Local clock offset: -8.066 ms
Remote clock offset: -12.457 ms

Run 5: Report of TCP Vegas — Data Link

Figure is missing

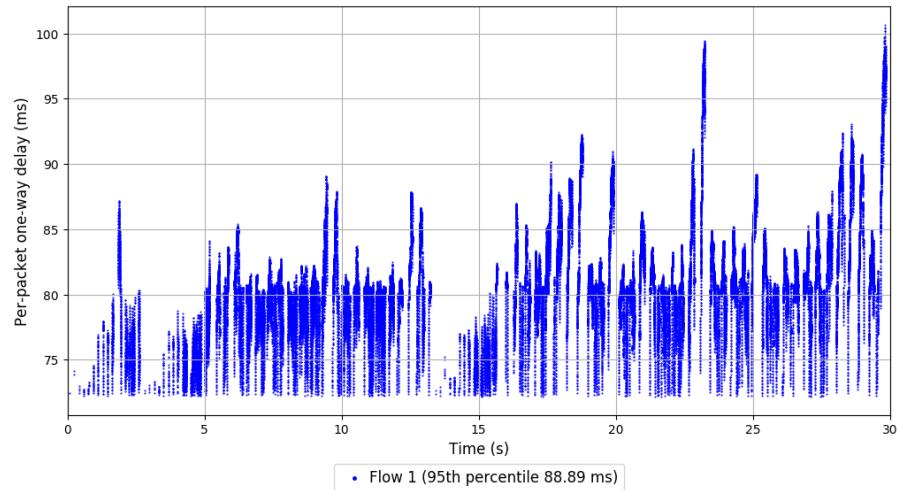
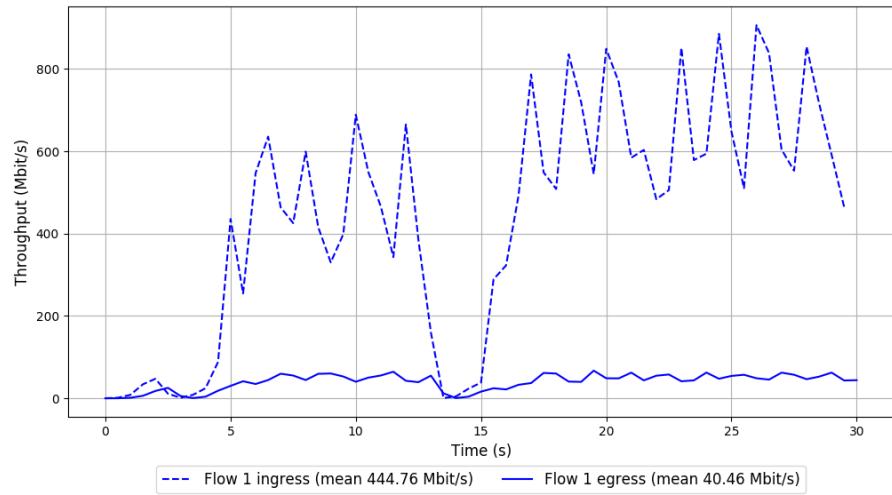
Figure is missing

Run 1: Statistics of Verus

```
Start at: 2019-07-11 18:37:33
End at: 2019-07-11 18:38:03
Local clock offset: -5.954 ms
Remote clock offset: -6.174 ms

# Below is generated by plot.py at 2019-07-11 20:56:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.46 Mbit/s
95th percentile per-packet one-way delay: 88.888 ms
Loss rate: 90.90%
-- Flow 1:
Average throughput: 40.46 Mbit/s
95th percentile per-packet one-way delay: 88.888 ms
Loss rate: 90.90%
```

Run 1: Report of Verus — Data Link

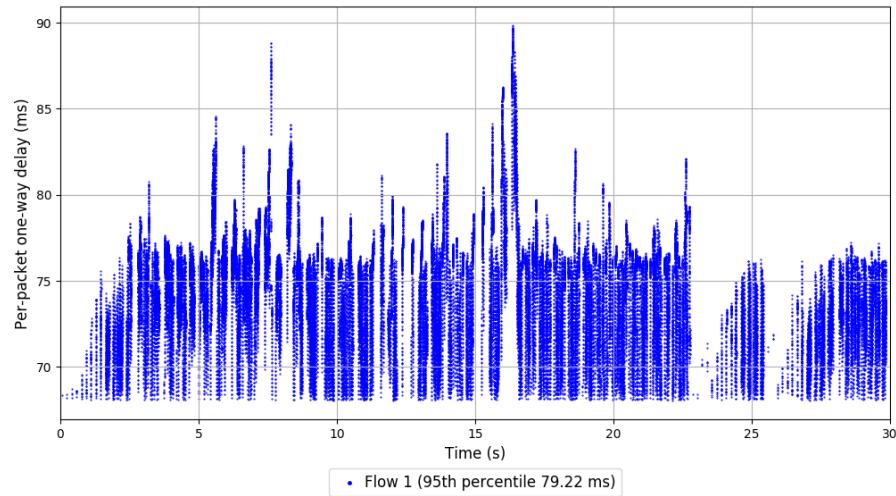
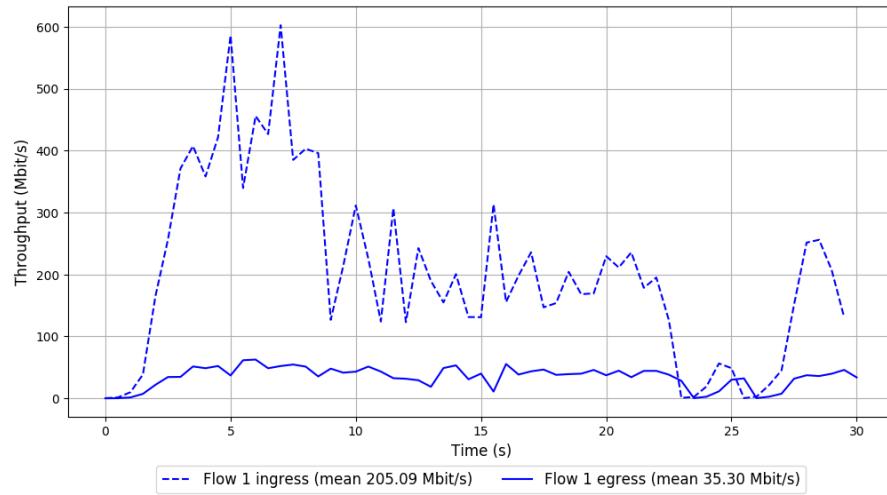


Run 2: Statistics of Verus

```
Start at: 2019-07-11 19:05:29
End at: 2019-07-11 19:05:59
Local clock offset: -6.218 ms
Remote clock offset: -11.523 ms

# Below is generated by plot.py at 2019-07-11 20:56:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.30 Mbit/s
95th percentile per-packet one-way delay: 79.222 ms
Loss rate: 82.78%
-- Flow 1:
Average throughput: 35.30 Mbit/s
95th percentile per-packet one-way delay: 79.222 ms
Loss rate: 82.78%
```

Run 2: Report of Verus — Data Link

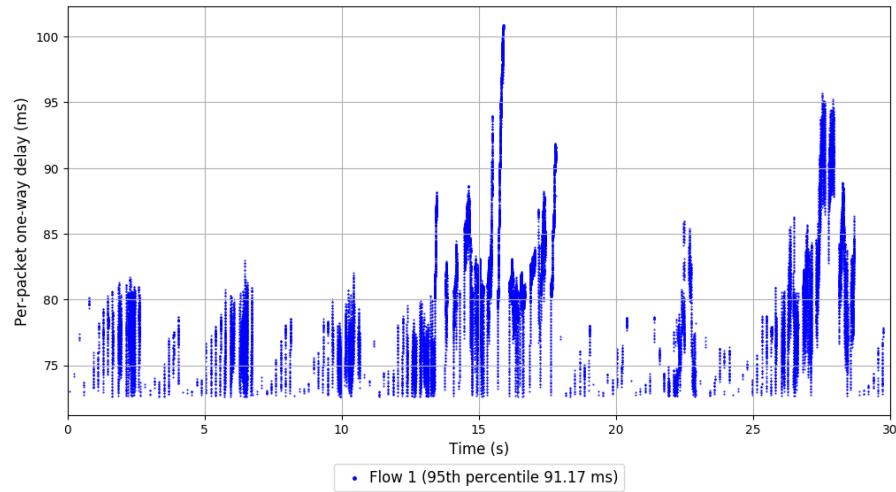
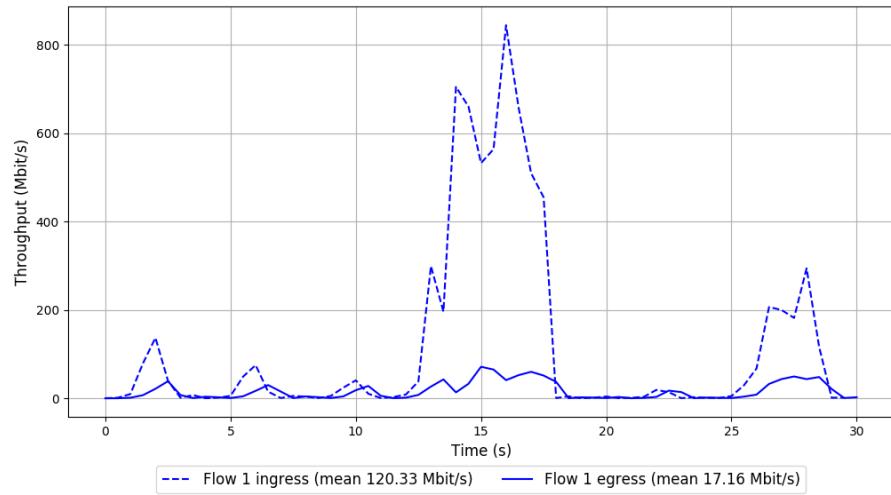


Run 3: Statistics of Verus

```
Start at: 2019-07-11 19:33:11
End at: 2019-07-11 19:38:41
Local clock offset: -6.559 ms
Remote clock offset: -6.629 ms

# Below is generated by plot.py at 2019-07-11 20:56:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 17.16 Mbit/s
95th percentile per-packet one-way delay: 91.165 ms
Loss rate: 85.74%
-- Flow 1:
Average throughput: 17.16 Mbit/s
95th percentile per-packet one-way delay: 91.165 ms
Loss rate: 85.74%
```

Run 3: Report of Verus — Data Link

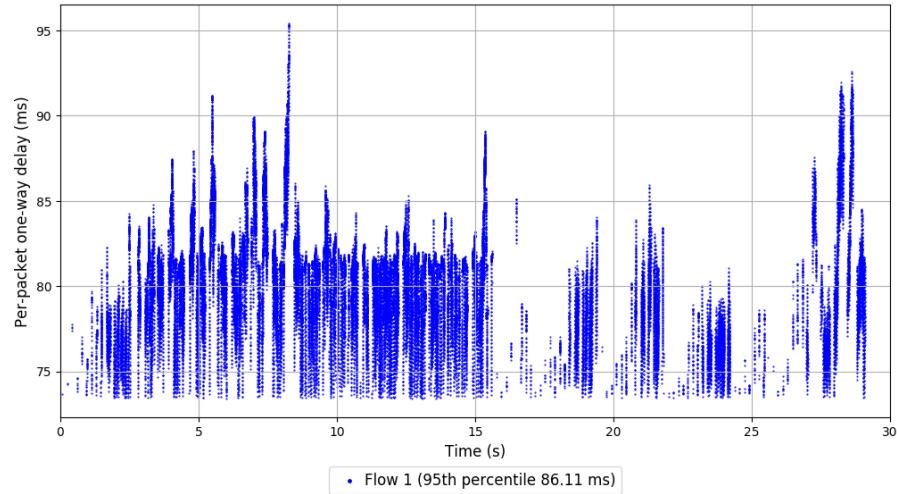
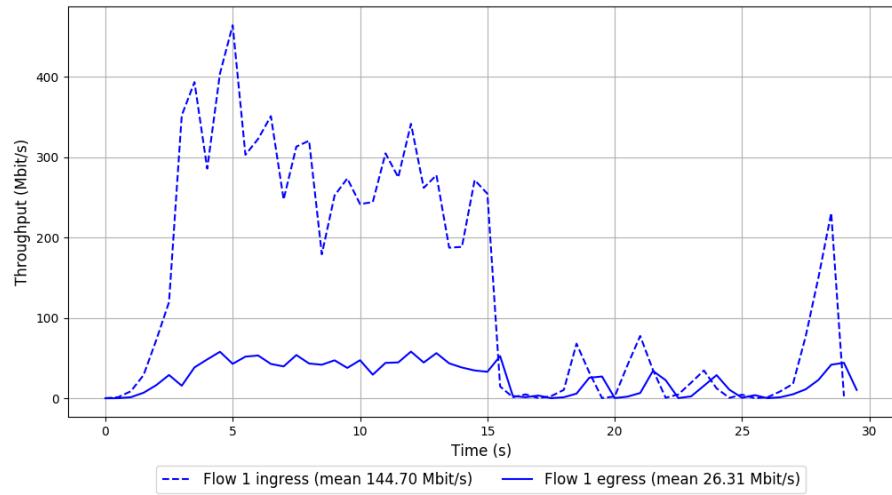


Run 4: Statistics of Verus

```
Start at: 2019-07-11 20:00:58
End at: 2019-07-11 20:01:28
Local clock offset: -6.74 ms
Remote clock offset: -8.658 ms

# Below is generated by plot.py at 2019-07-11 20:56:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.31 Mbit/s
95th percentile per-packet one-way delay: 86.105 ms
Loss rate: 81.82%
-- Flow 1:
Average throughput: 26.31 Mbit/s
95th percentile per-packet one-way delay: 86.105 ms
Loss rate: 81.82%
```

Run 4: Report of Verus — Data Link

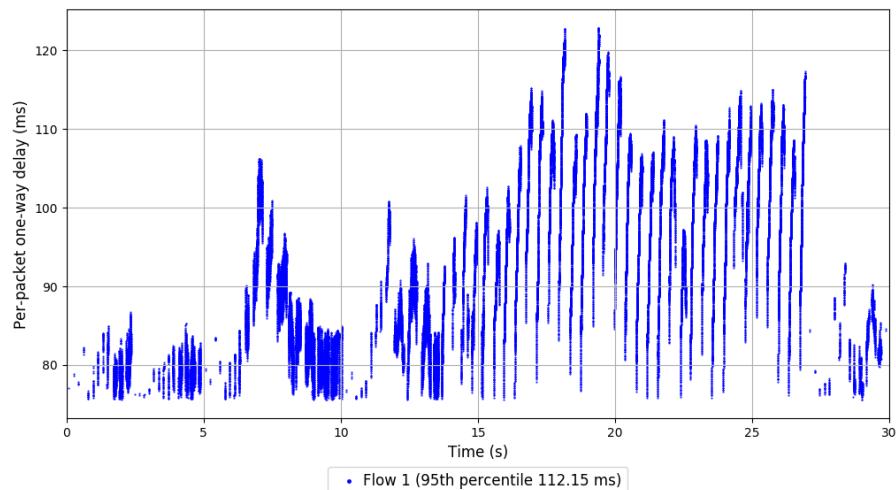
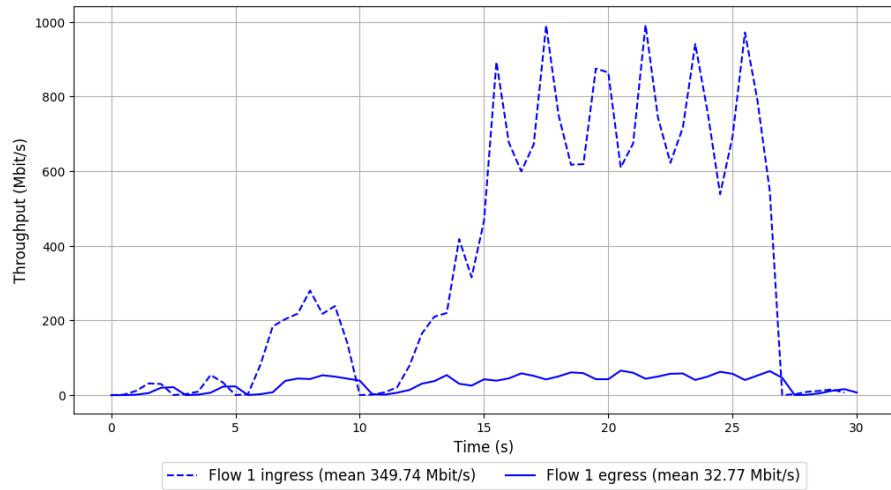


Run 5: Statistics of Verus

```
Start at: 2019-07-11 20:28:40
End at: 2019-07-11 20:29:10
Local clock offset: -8.287 ms
Remote clock offset: -7.781 ms

# Below is generated by plot.py at 2019-07-11 20:56:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.77 Mbit/s
95th percentile per-packet one-way delay: 112.151 ms
Loss rate: 90.63%
-- Flow 1:
Average throughput: 32.77 Mbit/s
95th percentile per-packet one-way delay: 112.151 ms
Loss rate: 90.63%
```

Run 5: Report of Verus — Data Link

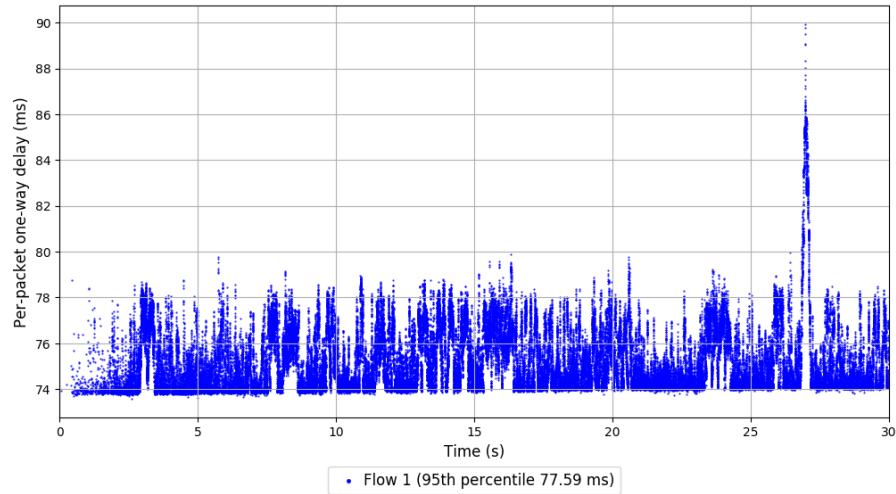
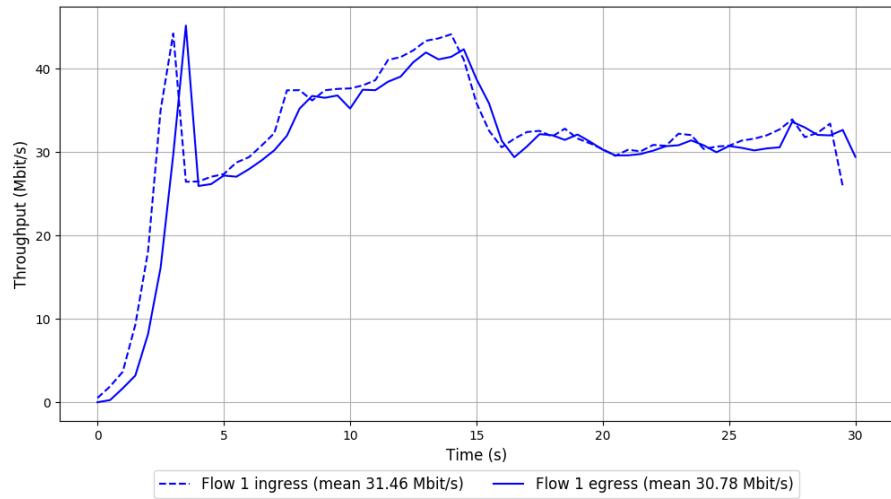


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-07-11 18:45:50
End at: 2019-07-11 18:46:20
Local clock offset: -8.463 ms
Remote clock offset: -5.938 ms

# Below is generated by plot.py at 2019-07-11 20:56:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 30.78 Mbit/s
95th percentile per-packet one-way delay: 77.587 ms
Loss rate: 2.16%
-- Flow 1:
Average throughput: 30.78 Mbit/s
95th percentile per-packet one-way delay: 77.587 ms
Loss rate: 2.16%
```

Run 1: Report of PCC-Vivace — Data Link

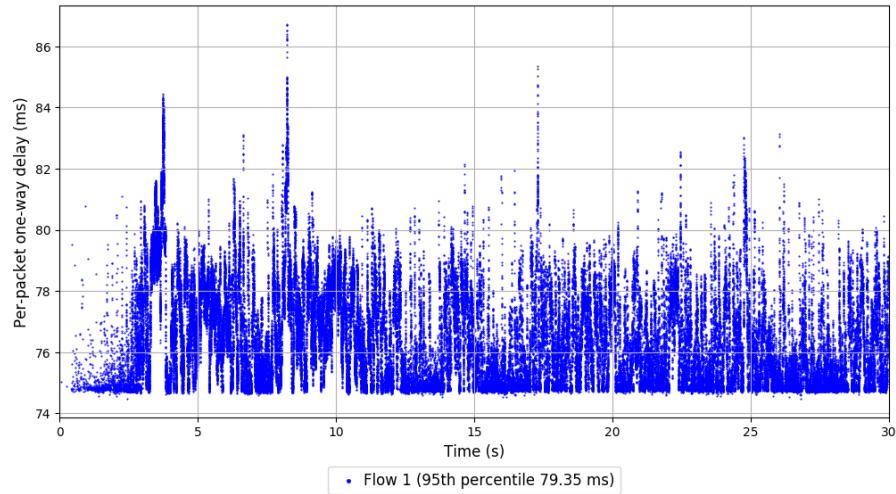
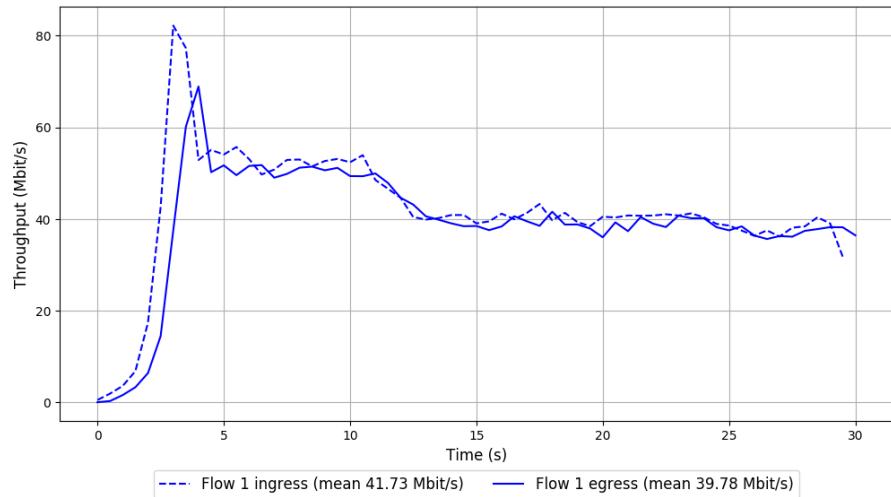


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-07-11 19:13:42
End at: 2019-07-11 19:14:12
Local clock offset: -6.158 ms
Remote clock offset: -6.379 ms

# Below is generated by plot.py at 2019-07-11 20:56:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 39.78 Mbit/s
95th percentile per-packet one-way delay: 79.347 ms
Loss rate: 4.65%
-- Flow 1:
Average throughput: 39.78 Mbit/s
95th percentile per-packet one-way delay: 79.347 ms
Loss rate: 4.65%
```

Run 2: Report of PCC-Vivace — Data Link

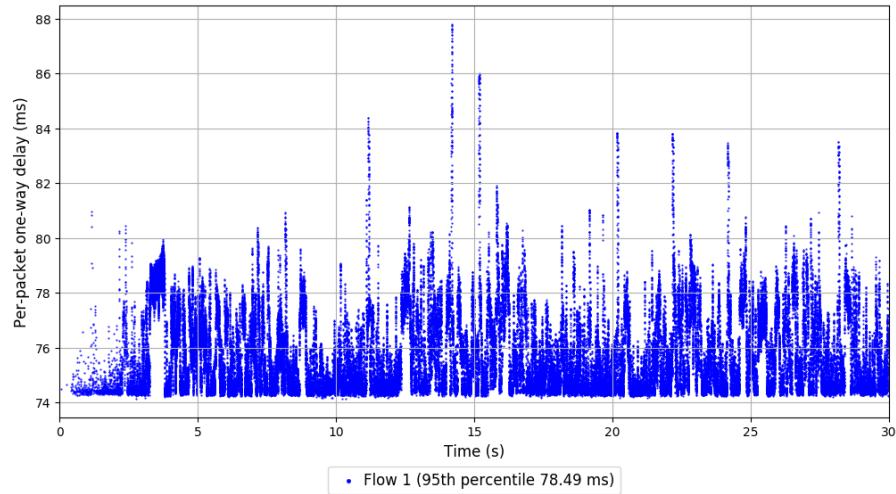
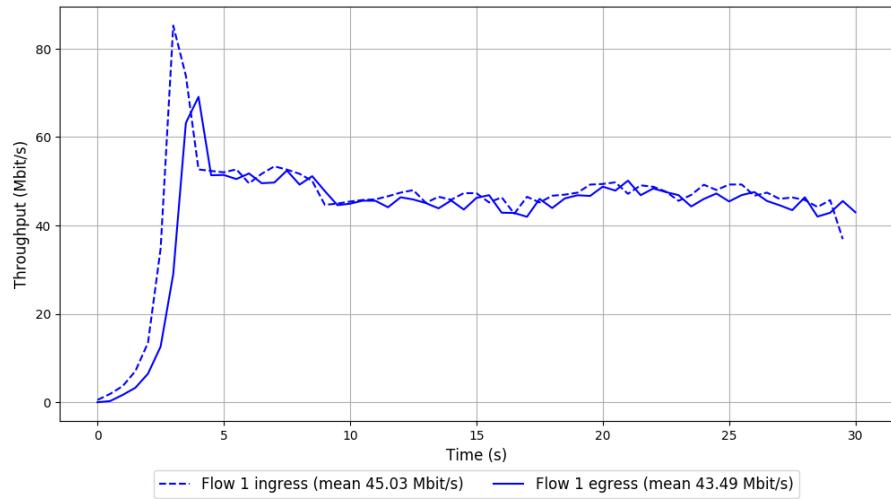


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-07-11 19:41:22
End at: 2019-07-11 19:41:52
Local clock offset: -7.194 ms
Remote clock offset: -7.684 ms

# Below is generated by plot.py at 2019-07-11 20:56:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.49 Mbit/s
95th percentile per-packet one-way delay: 78.491 ms
Loss rate: 3.41%
-- Flow 1:
Average throughput: 43.49 Mbit/s
95th percentile per-packet one-way delay: 78.491 ms
Loss rate: 3.41%
```

Run 3: Report of PCC-Vivace — Data Link

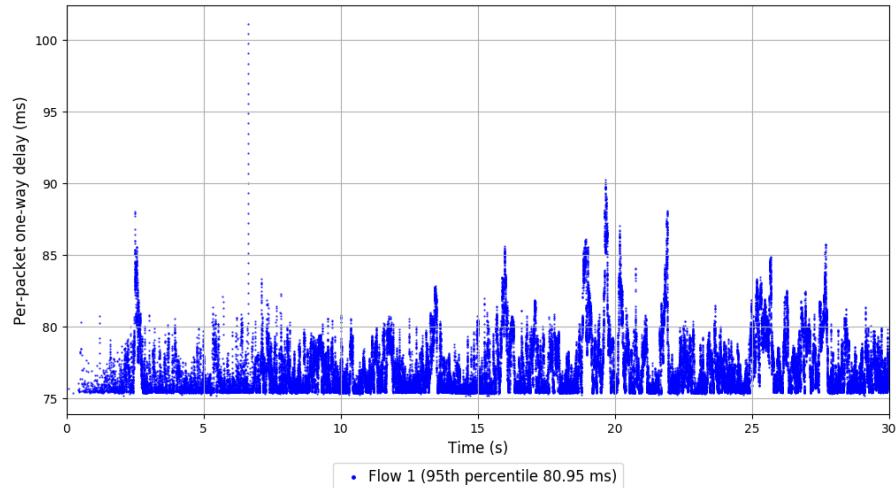
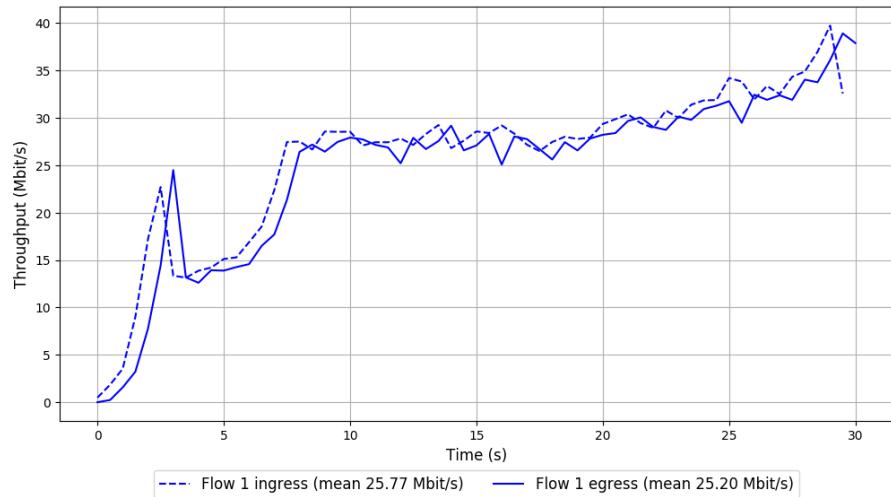


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-07-11 20:09:11
End at: 2019-07-11 20:09:41
Local clock offset: -6.83 ms
Remote clock offset: -8.589 ms

# Below is generated by plot.py at 2019-07-11 20:56:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 25.20 Mbit/s
95th percentile per-packet one-way delay: 80.950 ms
Loss rate: 2.21%
-- Flow 1:
Average throughput: 25.20 Mbit/s
95th percentile per-packet one-way delay: 80.950 ms
Loss rate: 2.21%
```

Run 4: Report of PCC-Vivace — Data Link

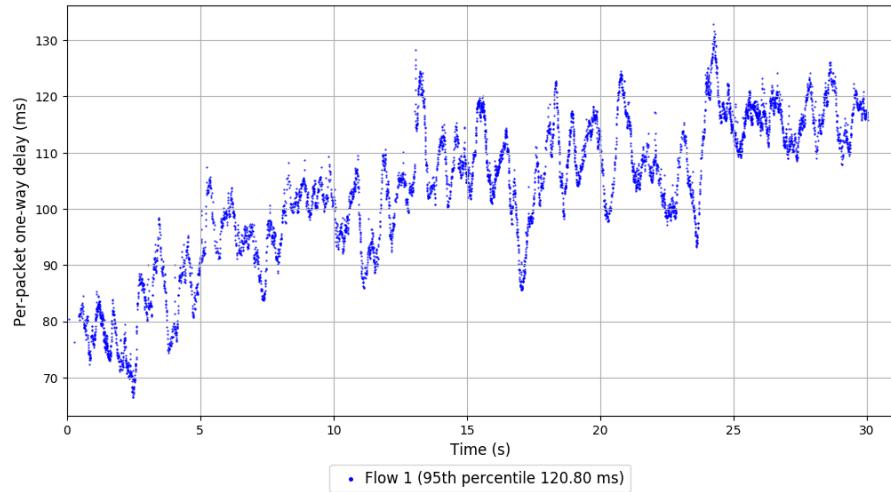
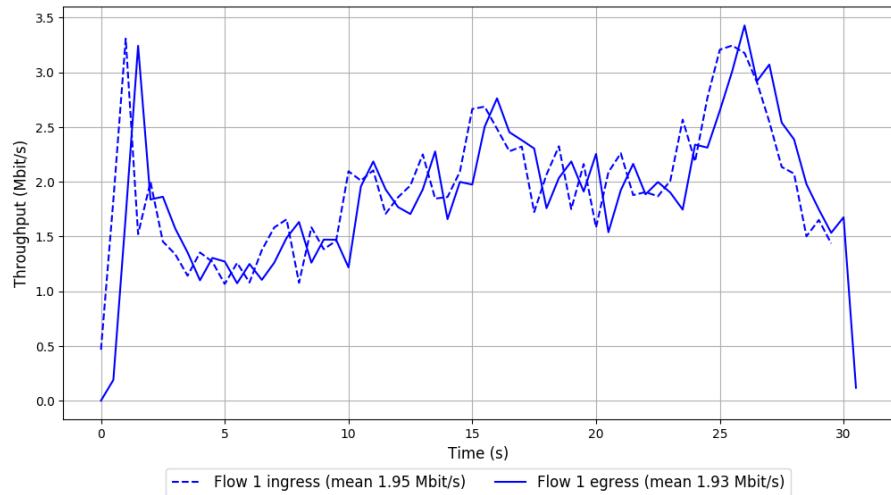


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-07-11 20:37:25
End at: 2019-07-11 20:37:55
Local clock offset: -6.967 ms
Remote clock offset: -18.638 ms

# Below is generated by plot.py at 2019-07-11 20:56:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 120.804 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 120.804 ms
Loss rate: 0.87%
```

Run 5: Report of PCC-Vivace — Data Link

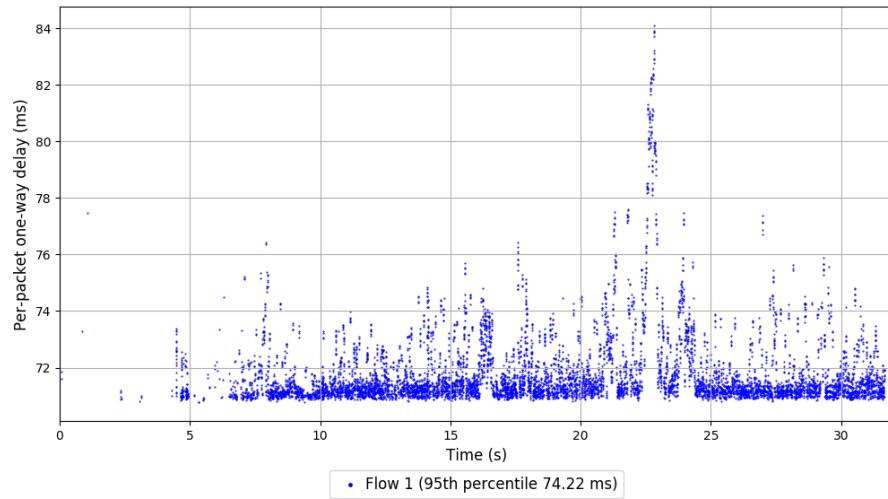
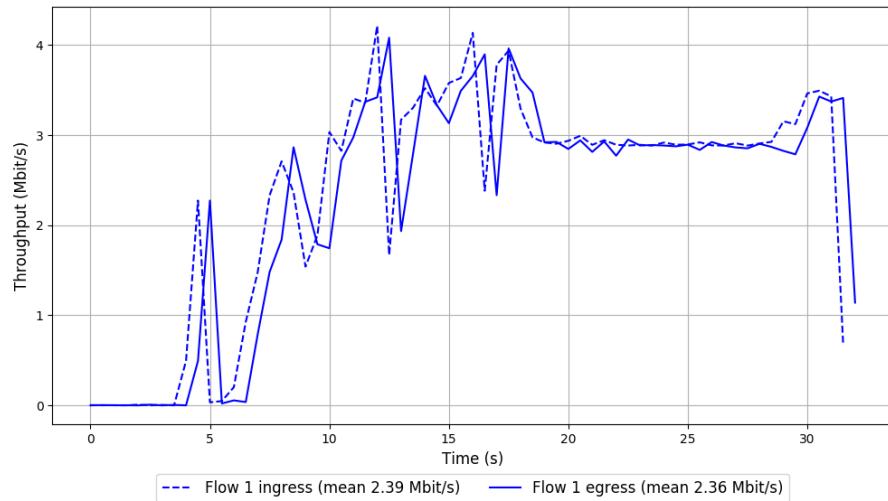


```
Run 1: Statistics of WebRTC media

Start at: 2019-07-11 18:57:23
End at: 2019-07-11 18:57:53
Local clock offset: -6.901 ms
Remote clock offset: -10.698 ms

# Below is generated by plot.py at 2019-07-11 20:56:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 74.222 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 74.222 ms
Loss rate: 1.39%
```

Run 1: Report of WebRTC media — Data Link

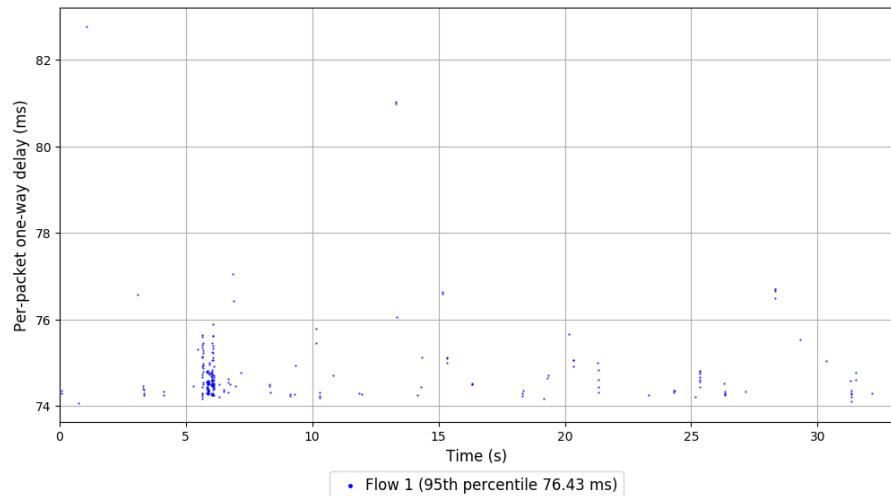
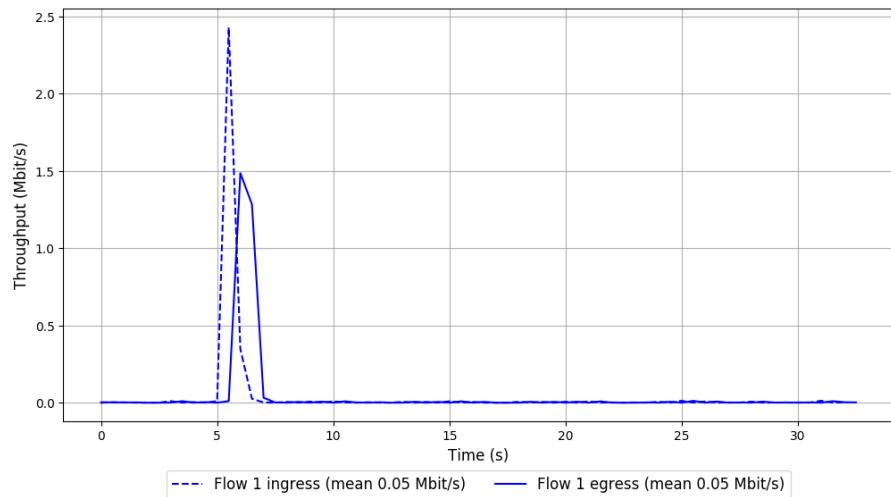


Run 2: Statistics of WebRTC media

```
Start at: 2019-07-11 19:25:10
End at: 2019-07-11 19:25:40
Local clock offset: -6.795 ms
Remote clock offset: -7.918 ms

# Below is generated by plot.py at 2019-07-11 20:56:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 76.430 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 76.430 ms
Loss rate: 0.05%
```

Run 2: Report of WebRTC media — Data Link

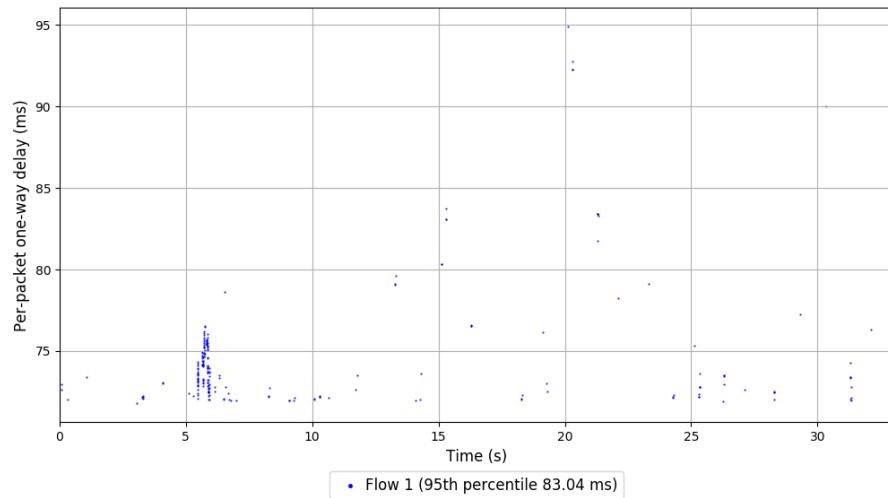
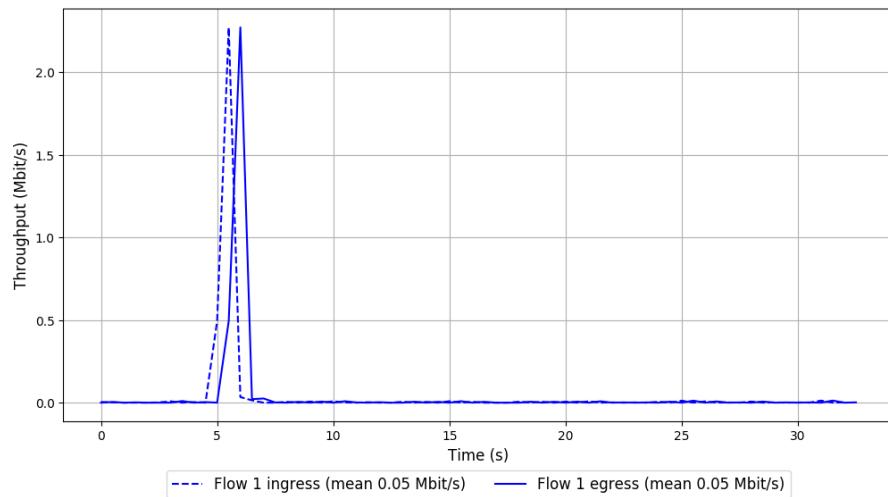


Run 3: Statistics of WebRTC media

```
Start at: 2019-07-11 19:52:56
End at: 2019-07-11 19:53:27
Local clock offset: -6.509 ms
Remote clock offset: -8.452 ms

# Below is generated by plot.py at 2019-07-11 20:56:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 83.042 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 83.042 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

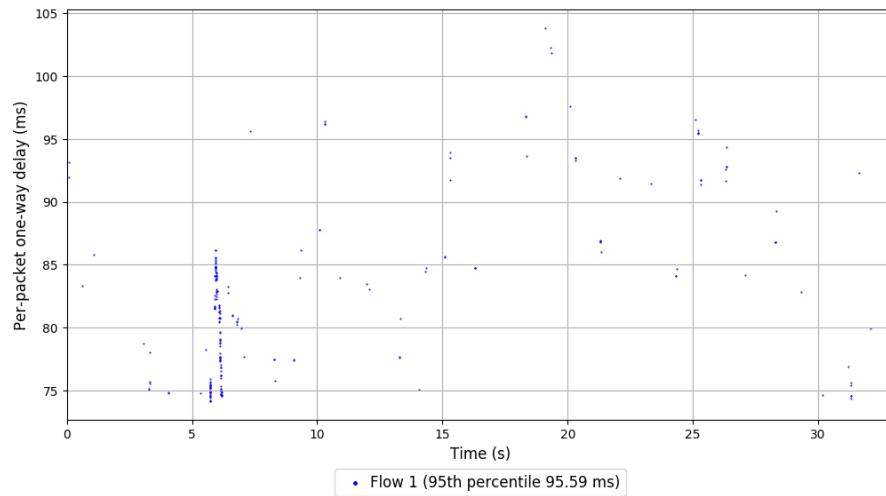
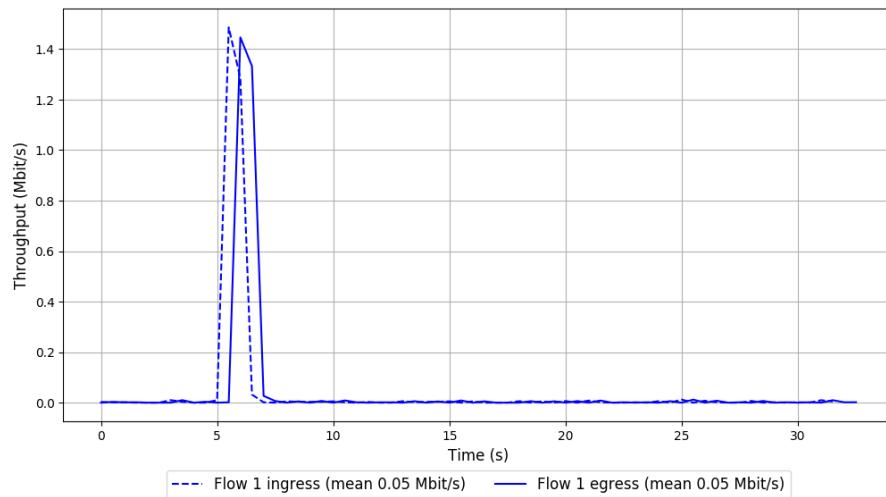


Run 4: Statistics of WebRTC media

```
Start at: 2019-07-11 20:20:38
End at: 2019-07-11 20:21:08
Local clock offset: -7.958 ms
Remote clock offset: -9.489 ms

# Below is generated by plot.py at 2019-07-11 20:56:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 95.587 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 95.587 ms
Loss rate: 0.05%
```

Run 4: Report of WebRTC media — Data Link



```
Run 5: Statistics of WebRTC media

Start at: 2019-07-11 20:48:56
End at: 2019-07-11 20:49:26
Local clock offset: -7.954 ms
Remote clock offset: -9.768 ms

# Below is generated by plot.py at 2019-07-11 20:56:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 90.401 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 90.401 ms
Loss rate: 0.05%
```

Run 5: Report of WebRTC media — Data Link

