

Pantheon Report

Generated at 2019-01-21 23:15:22 (UTC).
Data path: Brazil on p4p1 (*remote*) → AWS Brazil 1 on ens5 (*local*).
Repeated the test of 21 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against gps.ntp.br and have been applied to correct the timestamps in logs.

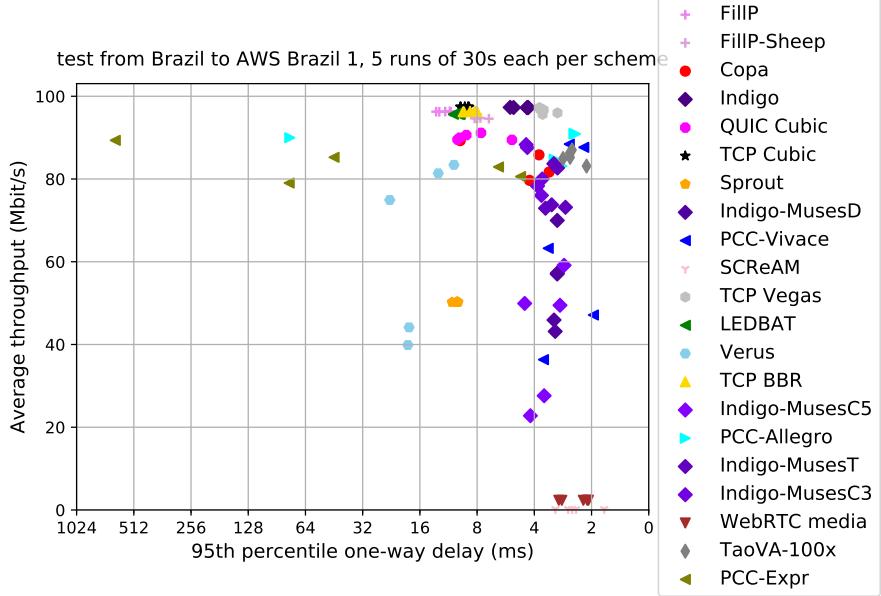
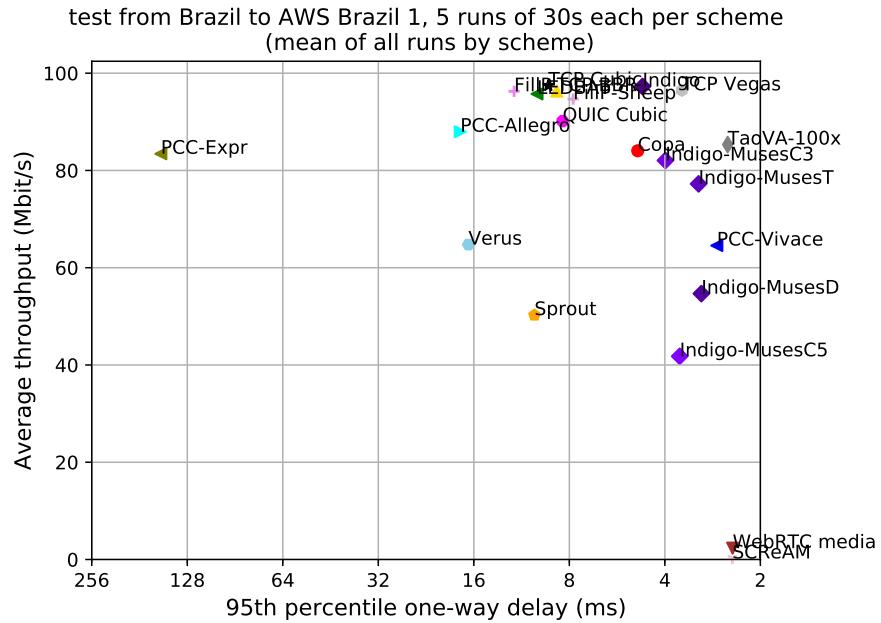
System info:

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

Git summary:

```
branch: muses @ 89d24e57783e7fbfec537a619071de937b639e38
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 1ddcff131048c6962f123bcd22b4d166a422adde
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



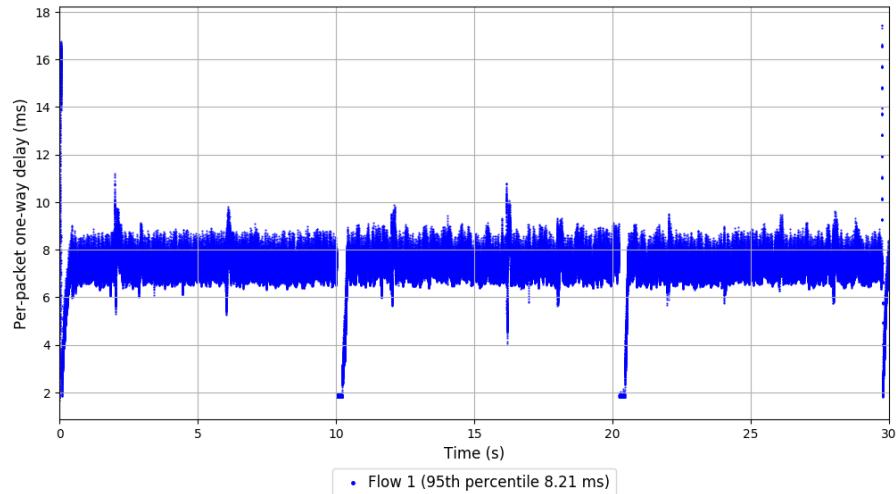
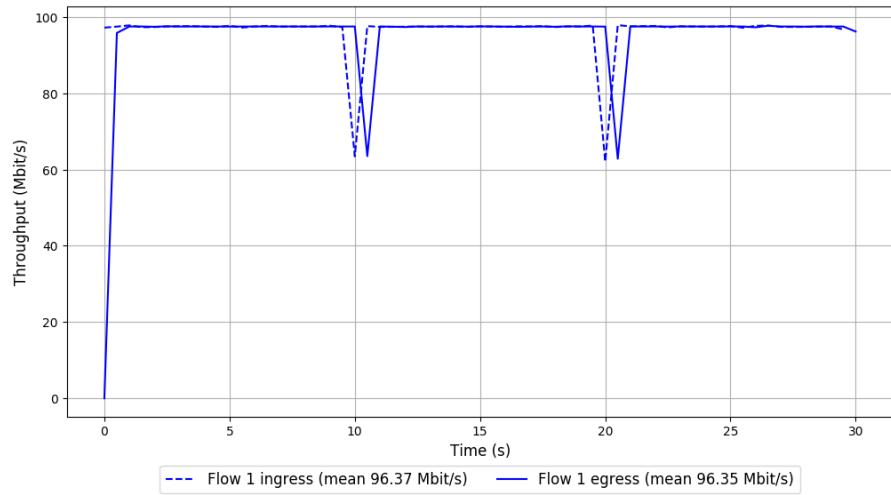
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	96.31	8.76	0.09
Copa	5	84.05	4.87	0.02
TCP Cubic	5	97.45	9.32	0.05
FillP	5	96.28	11.94	0.05
FillP-Sheep	5	94.68	7.78	0.03
Indigo	5	97.27	4.70	0.02
Indigo-MusesC3	5	82.05	3.98	0.02
Indigo-MusesC5	5	41.79	3.59	0.01
Indigo-MusesD	5	54.67	3.07	0.02
Indigo-MusesT	5	77.24	3.13	0.02
LEDBAT	5	95.73	10.12	0.08
PCC-Allegro	5	87.96	17.65	0.04
PCC-Expr	5	83.42	155.07	0.99
QUIC Cubic	5	90.15	8.40	0.03
SCReAM	5	0.22	2.45	0.00
Sprout	5	50.25	10.31	0.01
TaoVA-100x	5	85.33	2.54	0.02
TCP Vegas	5	96.47	3.54	0.01
Verus	5	64.75	16.64	0.06
PCC-Vivace	5	64.56	2.74	0.02
WebRTC media	5	2.34	2.45	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-01-21 21:25:10
End at: 2019-01-21 21:25:40
Local clock offset: -5.537 ms
Remote clock offset: 0.485 ms

# Below is generated by plot.py at 2019-01-21 23:03:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 8.214 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 8.214 ms
Loss rate: 0.03%
```

Run 1: Report of TCP BBR — Data Link

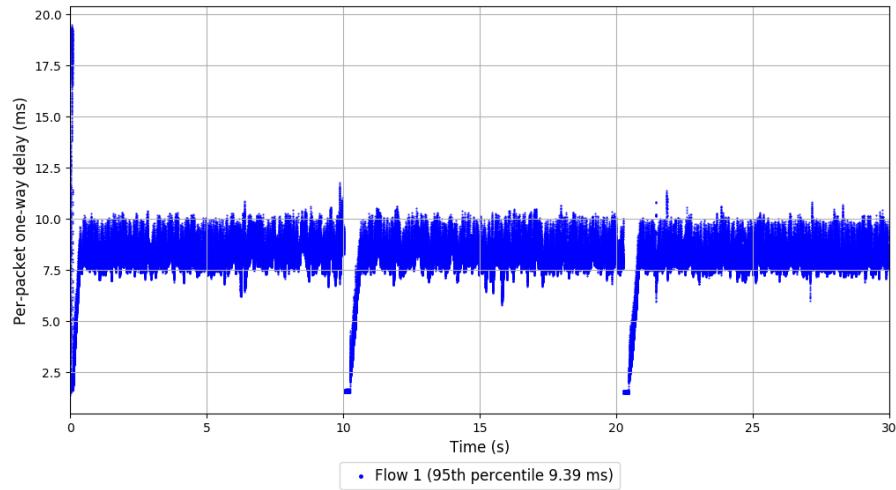
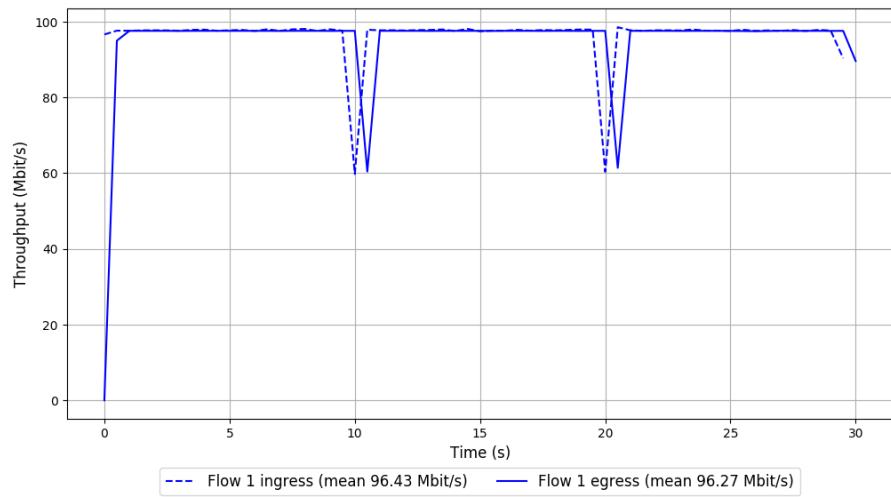


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-21 21:48:52
End at: 2019-01-21 21:49:22
Local clock offset: -5.359 ms
Remote clock offset: 0.862 ms

# Below is generated by plot.py at 2019-01-21 23:03:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 9.390 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 9.390 ms
Loss rate: 0.18%
```

Run 2: Report of TCP BBR — Data Link

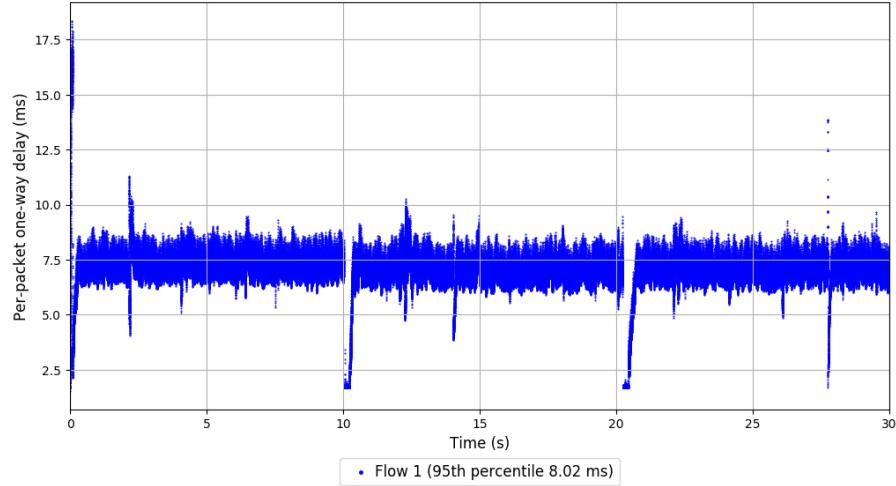
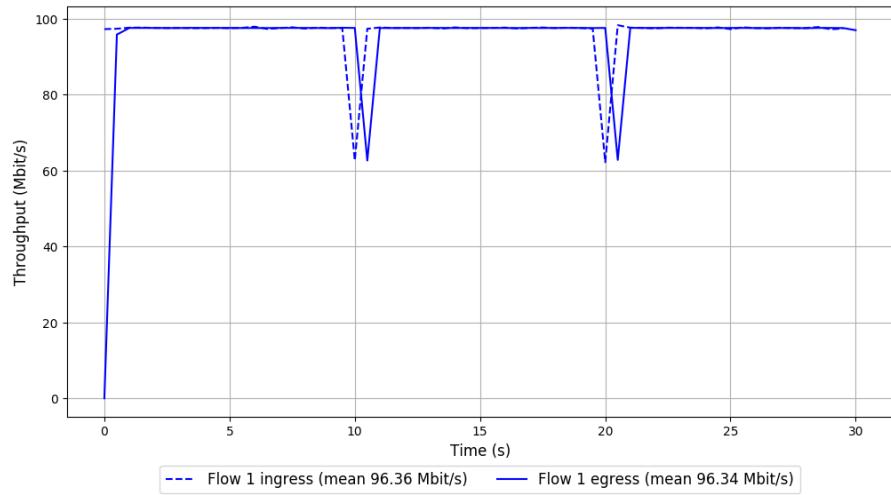


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-21 22:12:34
End at: 2019-01-21 22:13:04
Local clock offset: -4.015 ms
Remote clock offset: 1.013 ms

# Below is generated by plot.py at 2019-01-21 23:03:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.34 Mbit/s
95th percentile per-packet one-way delay: 8.021 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 96.34 Mbit/s
95th percentile per-packet one-way delay: 8.021 ms
Loss rate: 0.03%
```

Run 3: Report of TCP BBR — Data Link

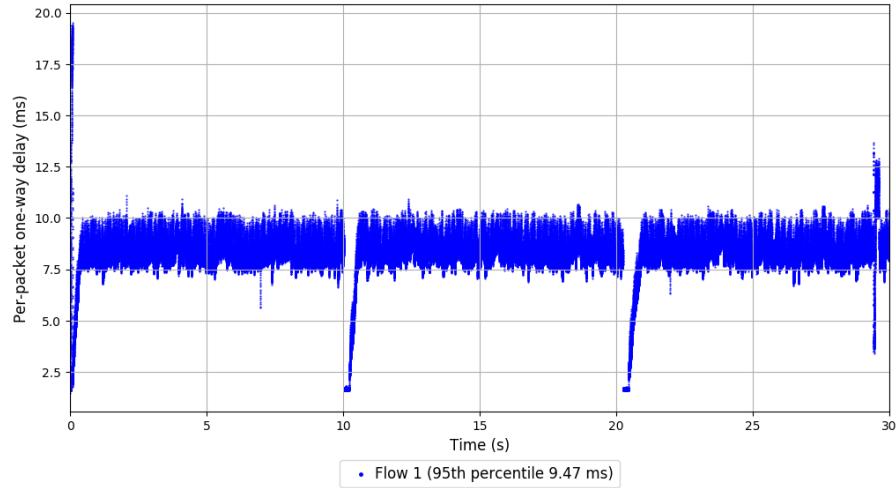
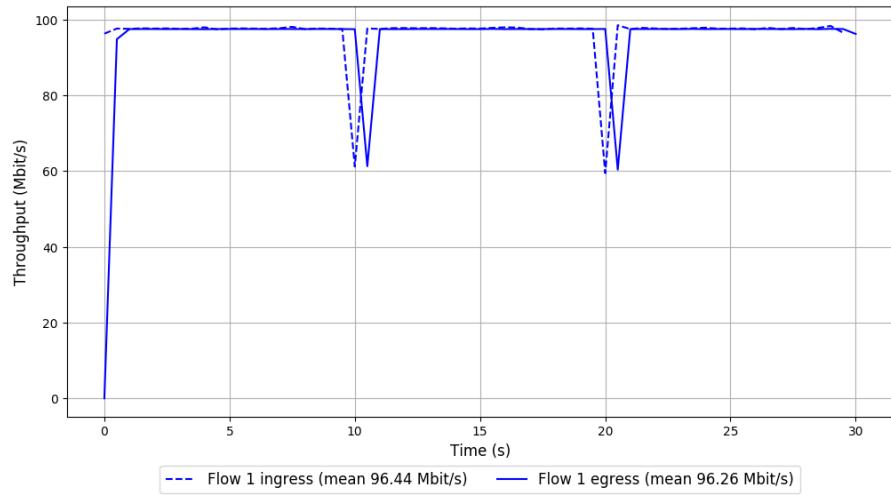


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-21 22:36:17
End at: 2019-01-21 22:36:47
Local clock offset: -5.163 ms
Remote clock offset: 1.078 ms

# Below is generated by plot.py at 2019-01-21 23:03:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 9.471 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 9.471 ms
Loss rate: 0.20%
```

Run 4: Report of TCP BBR — Data Link

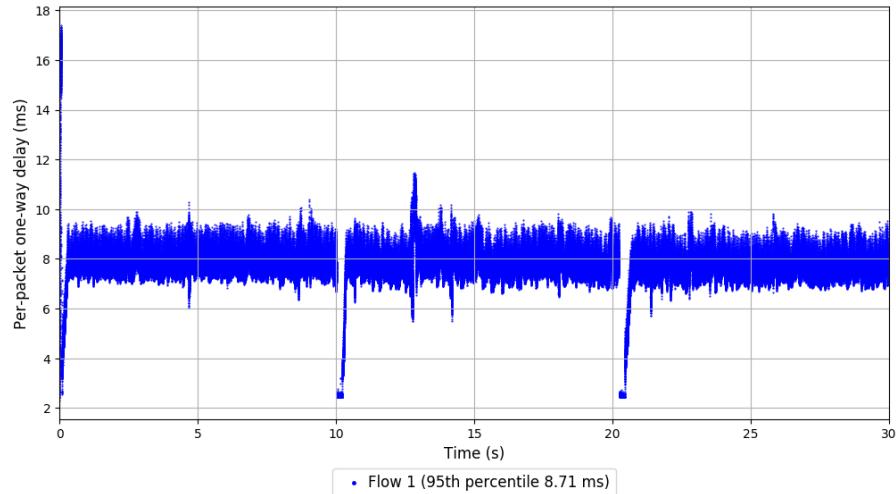
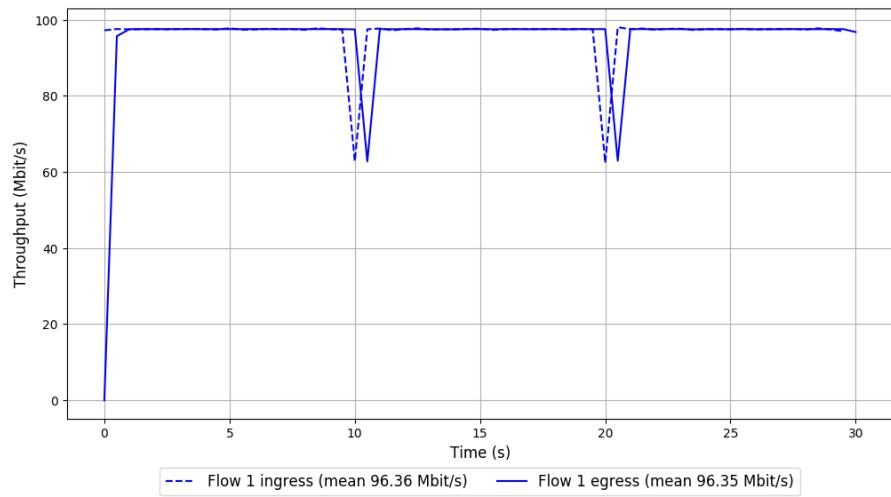


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-21 22:59:57
End at: 2019-01-21 23:00:27
Local clock offset: -4.857 ms
Remote clock offset: 0.847 ms

# Below is generated by plot.py at 2019-01-21 23:03:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 8.711 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 8.711 ms
Loss rate: 0.03%
```

Run 5: Report of TCP BBR — Data Link

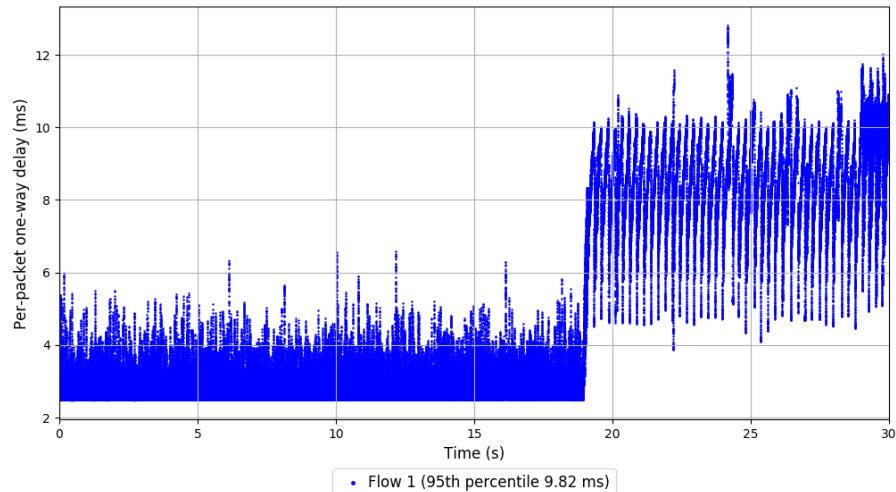
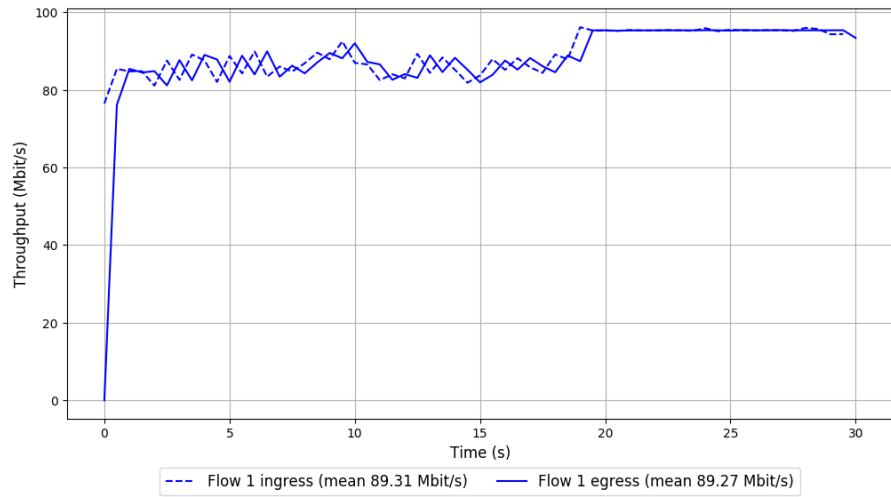


Run 1: Statistics of Copa

```
Start at: 2019-01-21 21:07:04
End at: 2019-01-21 21:07:34
Local clock offset: -4.508 ms
Remote clock offset: 0.301 ms

# Below is generated by plot.py at 2019-01-21 23:04:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.27 Mbit/s
95th percentile per-packet one-way delay: 9.823 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 89.27 Mbit/s
95th percentile per-packet one-way delay: 9.823 ms
Loss rate: 0.05%
```

Run 1: Report of Copa — Data Link

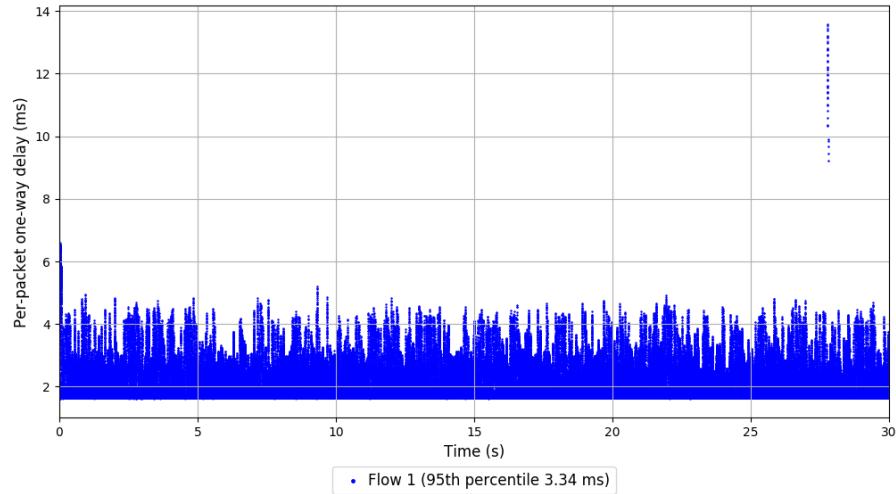
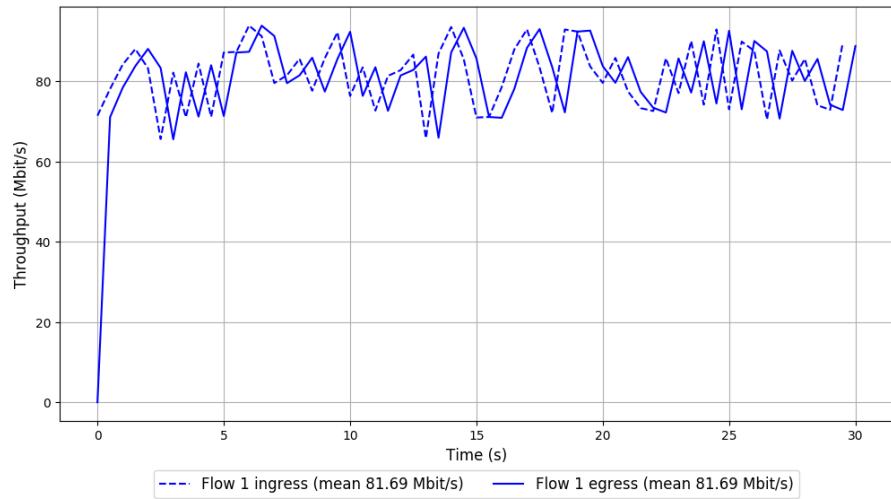


Run 2: Statistics of Copa

```
Start at: 2019-01-21 21:30:45
End at: 2019-01-21 21:31:15
Local clock offset: -5.674 ms
Remote clock offset: 0.636 ms

# Below is generated by plot.py at 2019-01-21 23:04:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.69 Mbit/s
95th percentile per-packet one-way delay: 3.343 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 81.69 Mbit/s
95th percentile per-packet one-way delay: 3.343 ms
Loss rate: 0.02%
```

Run 2: Report of Copa — Data Link

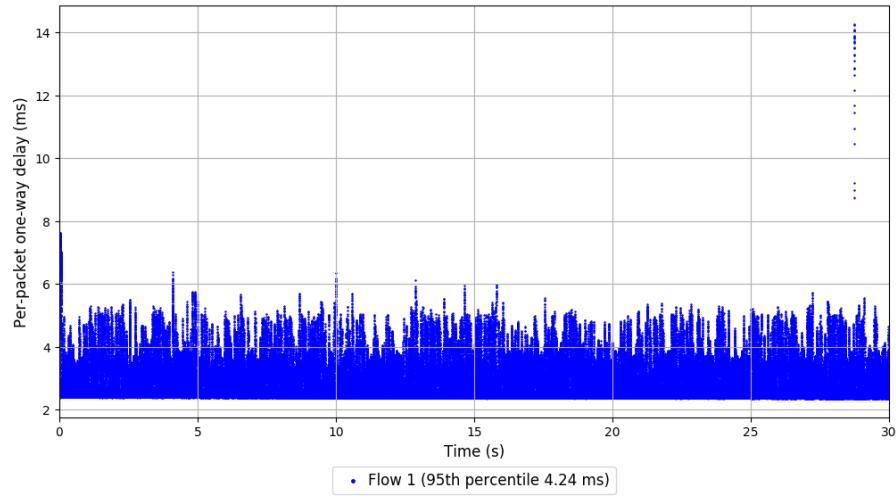
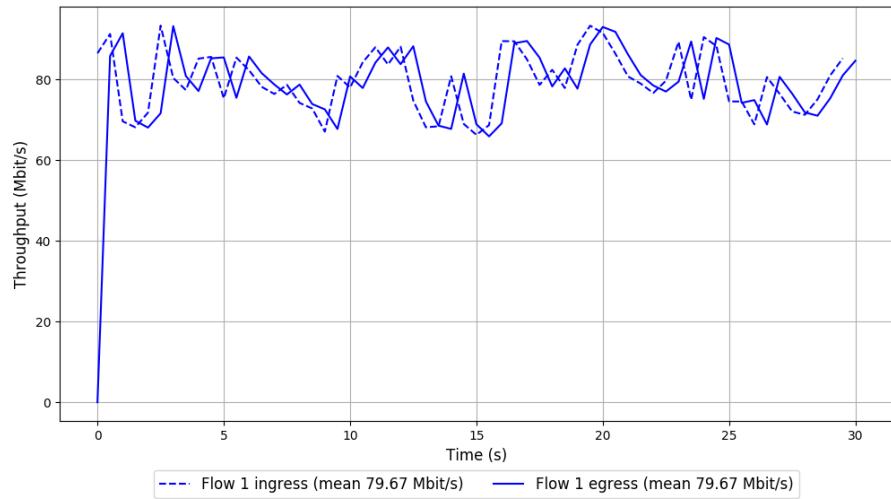


Run 3: Statistics of Copa

```
Start at: 2019-01-21 21:54:27
End at: 2019-01-21 21:54:57
Local clock offset: -3.908 ms
Remote clock offset: 0.809 ms

# Below is generated by plot.py at 2019-01-21 23:04:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.67 Mbit/s
95th percentile per-packet one-way delay: 4.239 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 79.67 Mbit/s
95th percentile per-packet one-way delay: 4.239 ms
Loss rate: 0.02%
```

Run 3: Report of Copa — Data Link

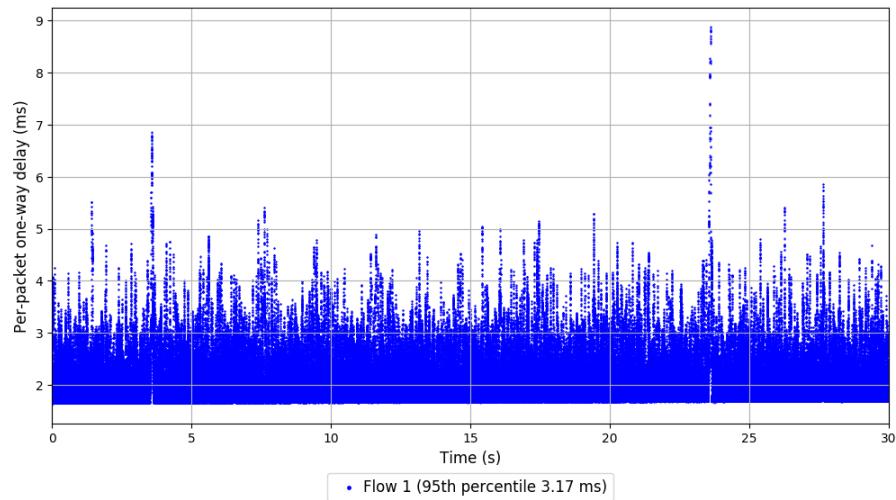
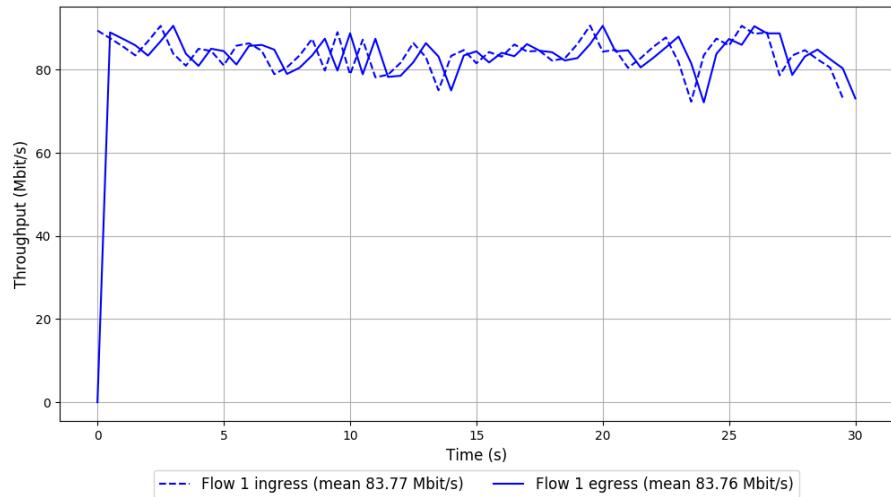


Run 4: Statistics of Copa

```
Start at: 2019-01-21 22:18:09
End at: 2019-01-21 22:18:39
Local clock offset: -4.233 ms
Remote clock offset: 1.119 ms

# Below is generated by plot.py at 2019-01-21 23:05:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.76 Mbit/s
95th percentile per-packet one-way delay: 3.168 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 83.76 Mbit/s
95th percentile per-packet one-way delay: 3.168 ms
Loss rate: 0.01%
```

Run 4: Report of Copa — Data Link

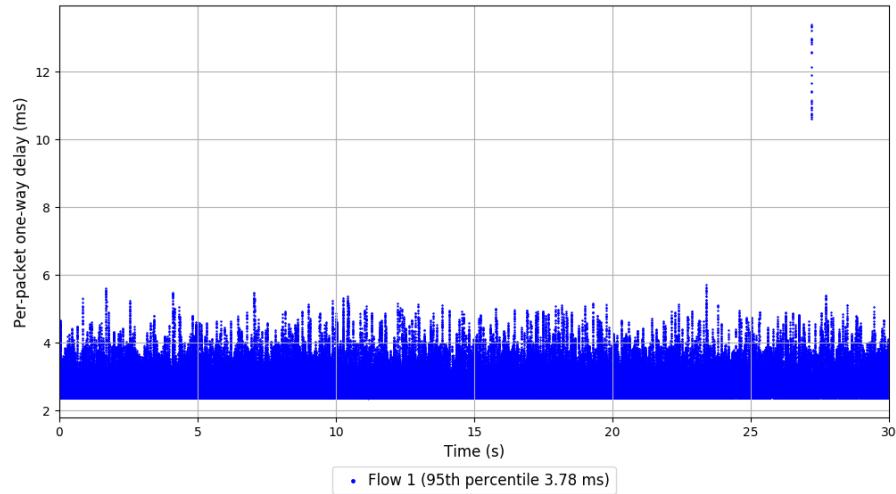
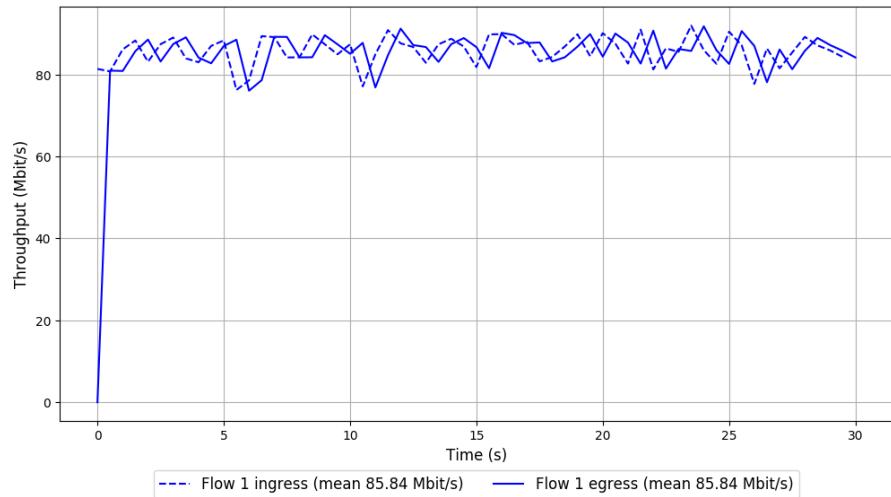


Run 5: Statistics of Copa

```
Start at: 2019-01-21 22:41:52
End at: 2019-01-21 22:42:22
Local clock offset: -4.512 ms
Remote clock offset: 1.061 ms

# Below is generated by plot.py at 2019-01-21 23:05:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.84 Mbit/s
95th percentile per-packet one-way delay: 3.781 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 85.84 Mbit/s
95th percentile per-packet one-way delay: 3.781 ms
Loss rate: 0.01%
```

Run 5: Report of Copa — Data Link

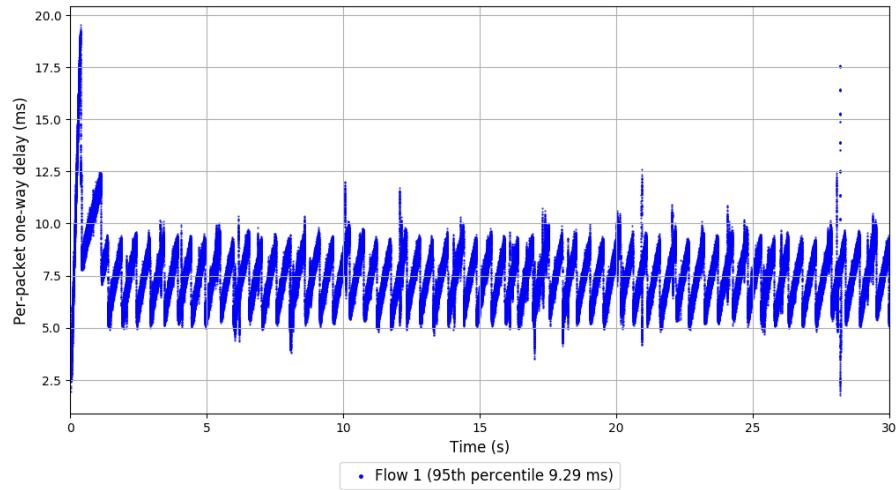
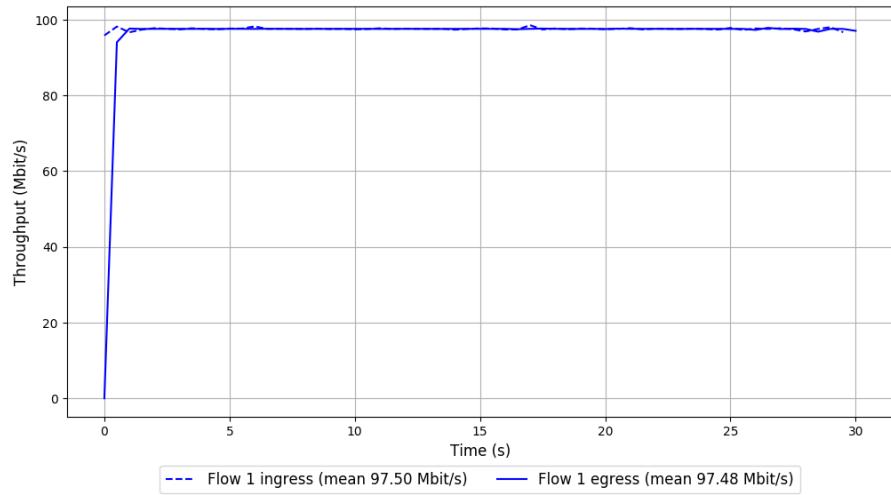


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-01-21 21:16:14
End at: 2019-01-21 21:16:44
Local clock offset: -5.626 ms
Remote clock offset: 0.389 ms

# Below is generated by plot.py at 2019-01-21 23:05:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 9.287 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 9.287 ms
Loss rate: 0.05%
```

Run 1: Report of TCP Cubic — Data Link

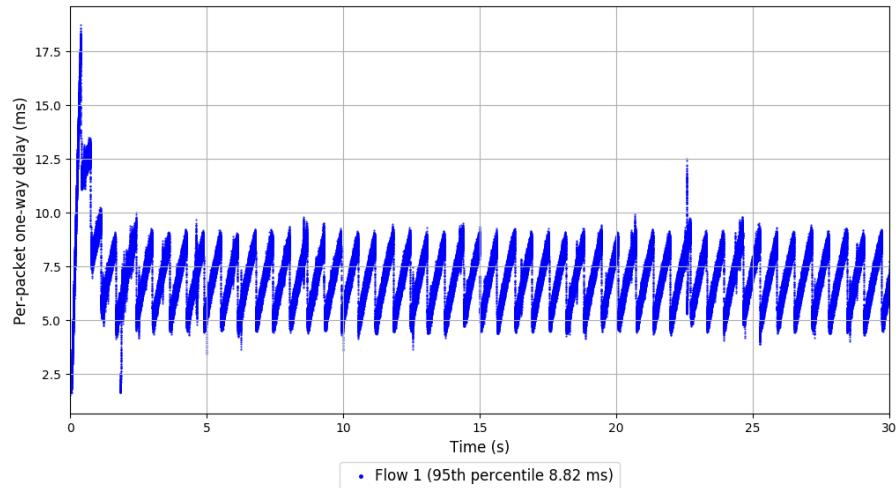
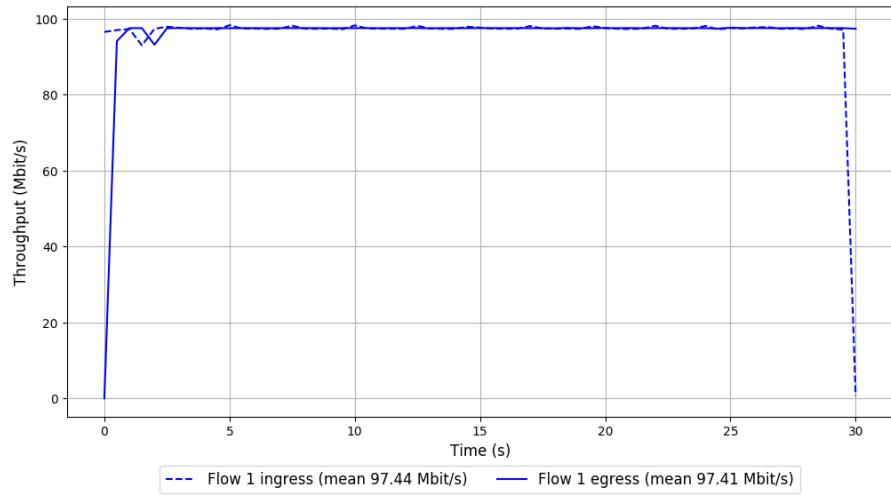


Run 2: Statistics of TCP Cubic

```
Start at: 2019-01-21 21:39:56
End at: 2019-01-21 21:40:26
Local clock offset: -5.791 ms
Remote clock offset: 0.798 ms

# Below is generated by plot.py at 2019-01-21 23:05:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.41 Mbit/s
95th percentile per-packet one-way delay: 8.825 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 97.41 Mbit/s
95th percentile per-packet one-way delay: 8.825 ms
Loss rate: 0.05%
```

Run 2: Report of TCP Cubic — Data Link

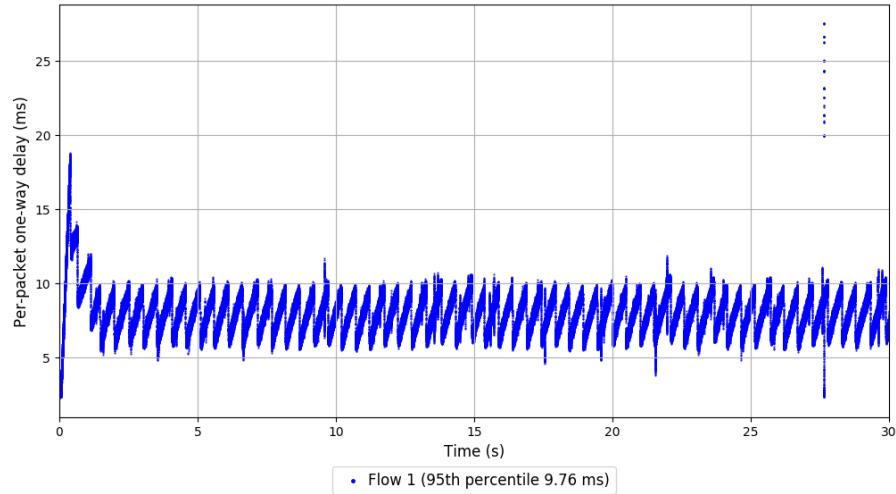
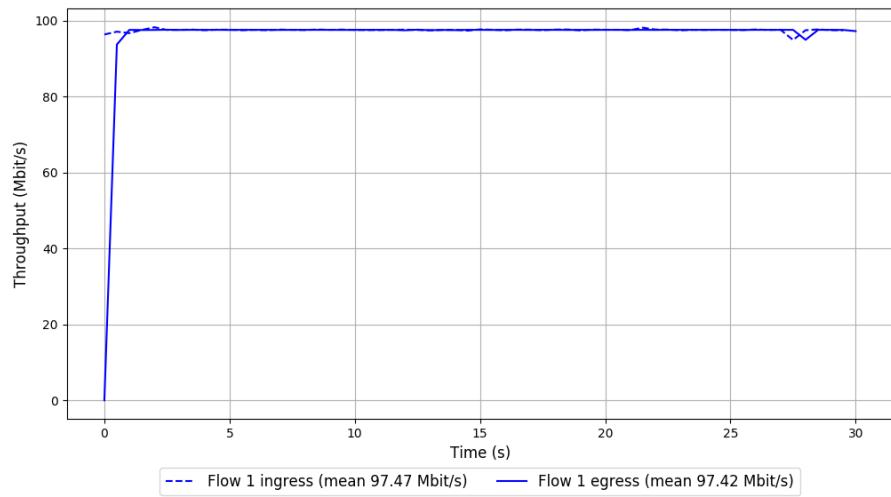


Run 3: Statistics of TCP Cubic

```
Start at: 2019-01-21 22:03:36
End at: 2019-01-21 22:04:06
Local clock offset: -3.417 ms
Remote clock offset: 1.002 ms

# Below is generated by plot.py at 2019-01-21 23:05:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.42 Mbit/s
95th percentile per-packet one-way delay: 9.764 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 97.42 Mbit/s
95th percentile per-packet one-way delay: 9.764 ms
Loss rate: 0.05%
```

Run 3: Report of TCP Cubic — Data Link

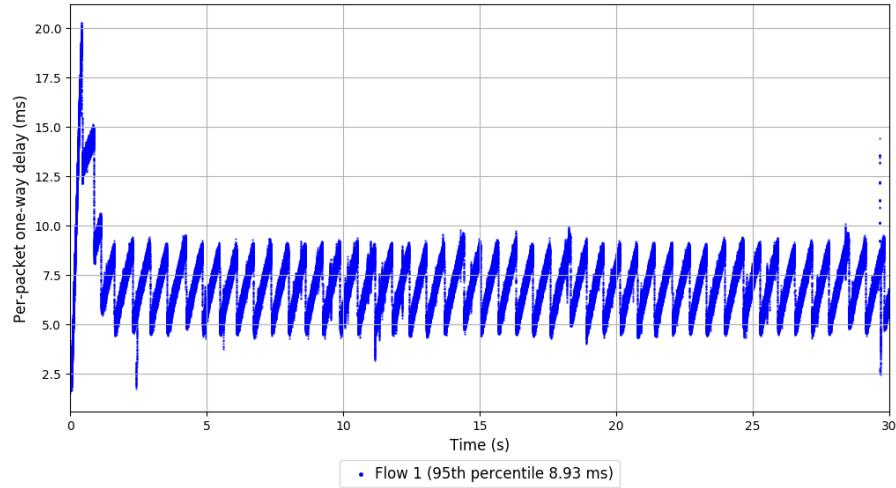
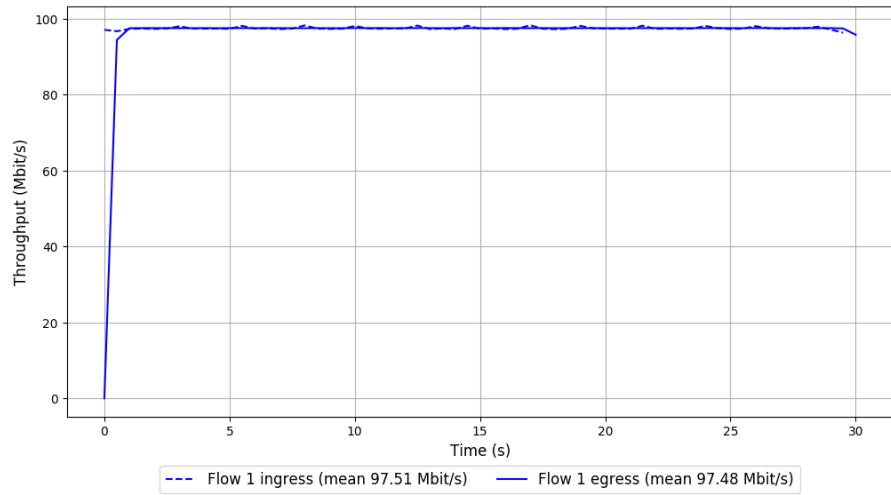


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-21 22:27:19
End at: 2019-01-21 22:27:49
Local clock offset: -4.878 ms
Remote clock offset: 1.083 ms

# Below is generated by plot.py at 2019-01-21 23:05:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 8.925 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 8.925 ms
Loss rate: 0.05%
```

Run 4: Report of TCP Cubic — Data Link

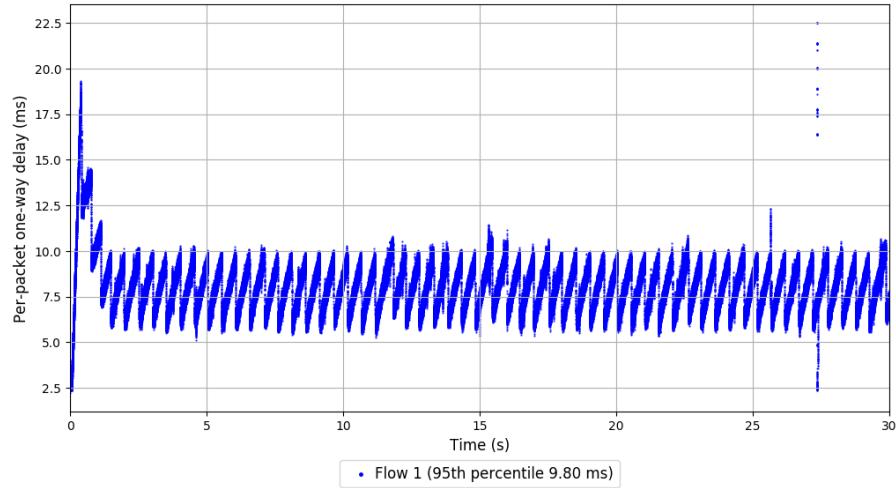
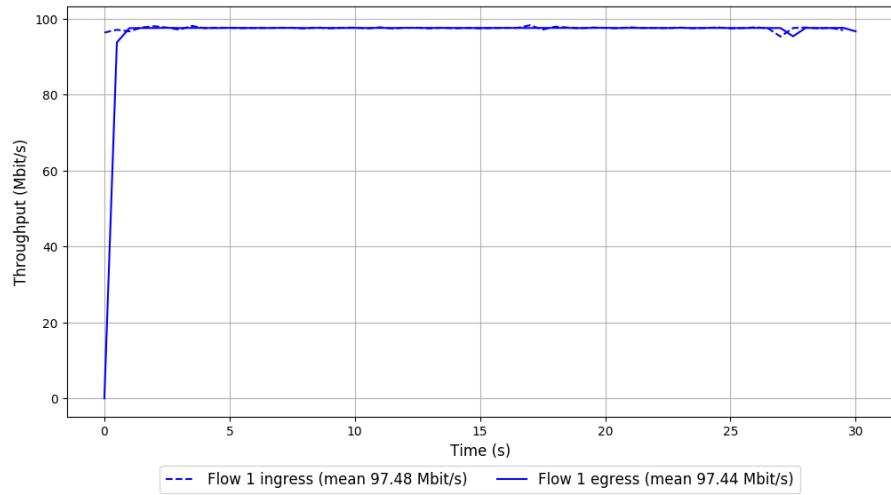


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-21 22:51:03
End at: 2019-01-21 22:51:33
Local clock offset: -4.708 ms
Remote clock offset: 1.07 ms

# Below is generated by plot.py at 2019-01-21 23:05:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.44 Mbit/s
95th percentile per-packet one-way delay: 9.797 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 97.44 Mbit/s
95th percentile per-packet one-way delay: 9.797 ms
Loss rate: 0.05%
```

Run 5: Report of TCP Cubic — Data Link

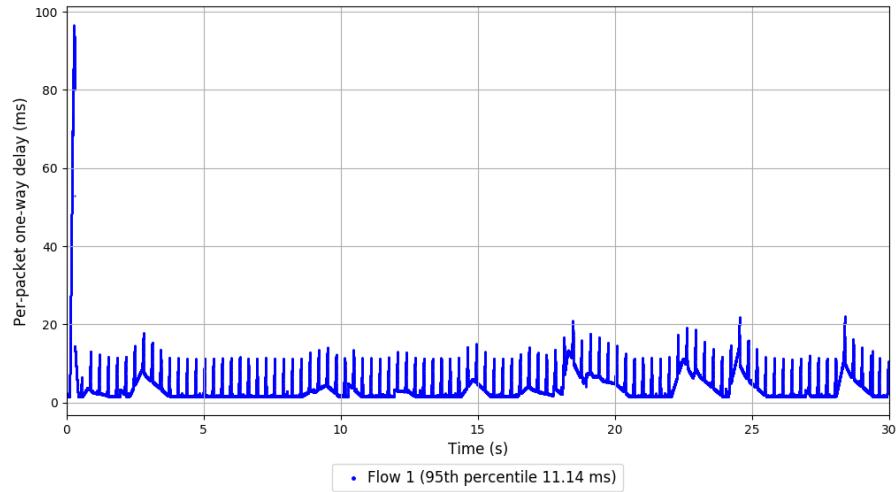
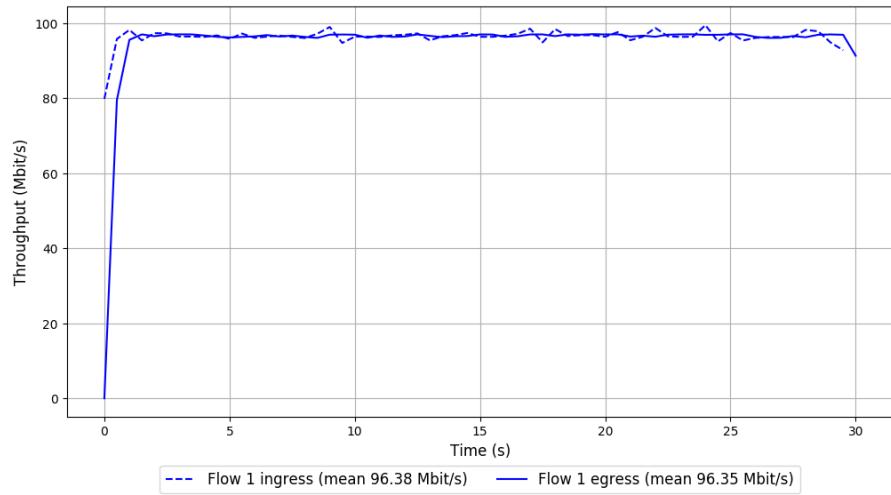


```
Run 1: Statistics of FillP
```

```
Start at: 2019-01-21 21:12:48
End at: 2019-01-21 21:13:18
Local clock offset: -5.573 ms
Remote clock offset: 0.433 ms

# Below is generated by plot.py at 2019-01-21 23:05:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 11.143 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 11.143 ms
Loss rate: 0.04%
```

Run 1: Report of FillP — Data Link

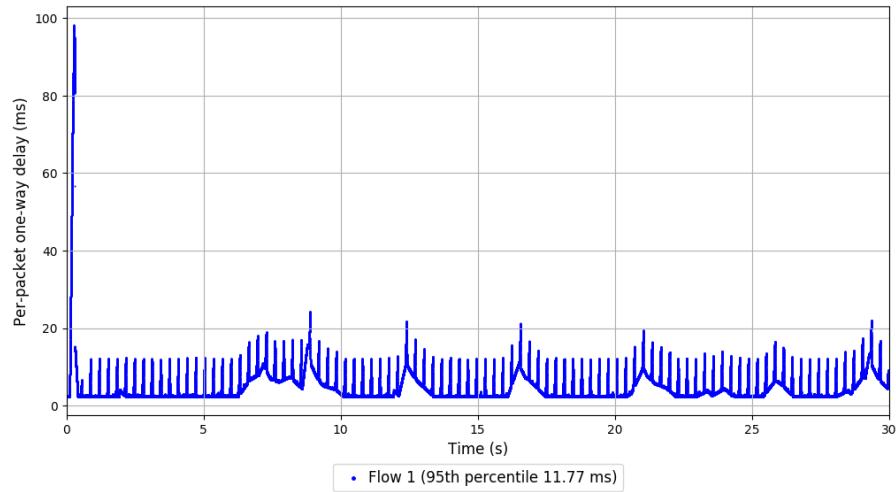
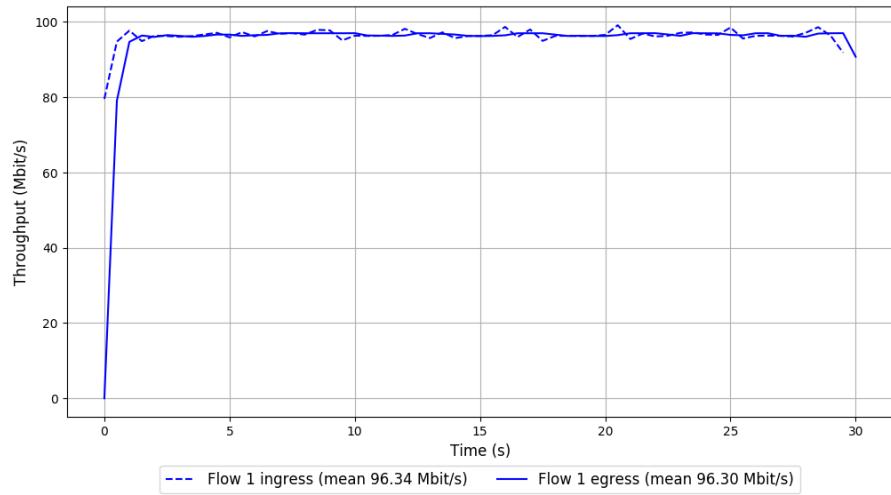


Run 2: Statistics of FillP

```
Start at: 2019-01-21 21:36:30
End at: 2019-01-21 21:37:00
Local clock offset: -4.961 ms
Remote clock offset: 0.673 ms

# Below is generated by plot.py at 2019-01-21 23:05:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.30 Mbit/s
95th percentile per-packet one-way delay: 11.773 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 96.30 Mbit/s
95th percentile per-packet one-way delay: 11.773 ms
Loss rate: 0.06%
```

Run 2: Report of FillP — Data Link

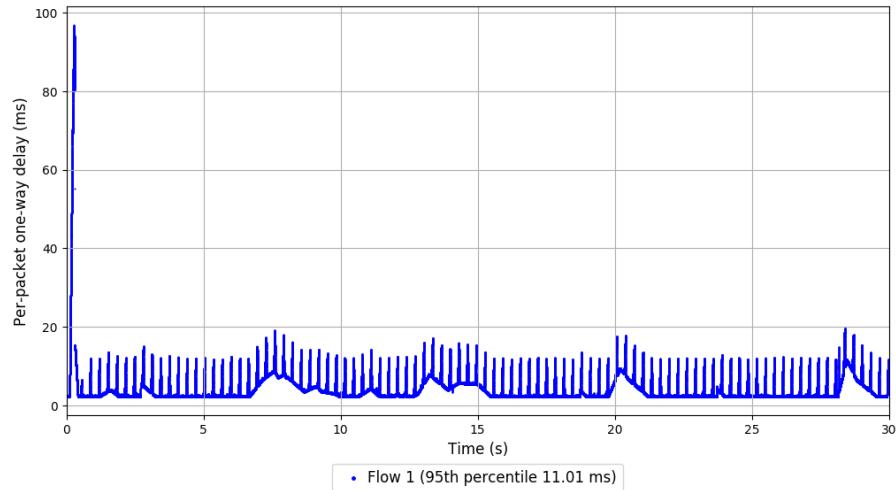
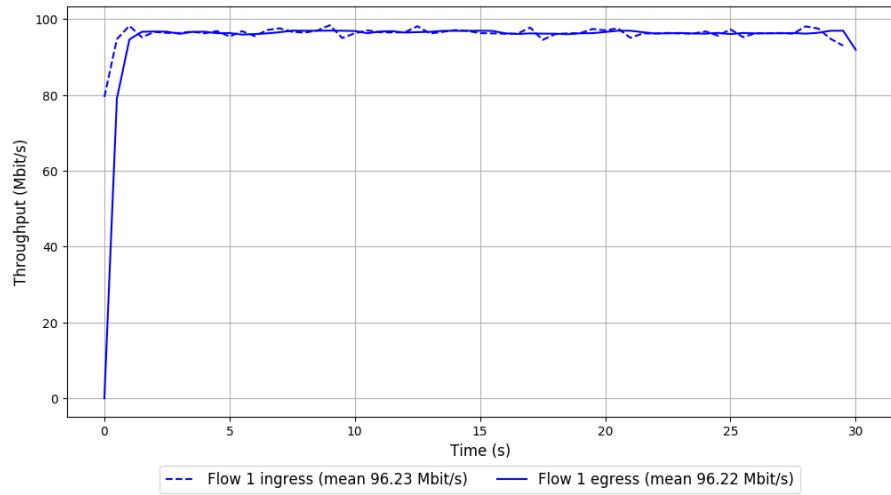


Run 3: Statistics of FillP

```
Start at: 2019-01-21 22:00:11
End at: 2019-01-21 22:00:41
Local clock offset: -3.549 ms
Remote clock offset: 0.939 ms

# Below is generated by plot.py at 2019-01-21 23:05:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.22 Mbit/s
95th percentile per-packet one-way delay: 11.009 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 96.22 Mbit/s
95th percentile per-packet one-way delay: 11.009 ms
Loss rate: 0.03%
```

Run 3: Report of FillP — Data Link

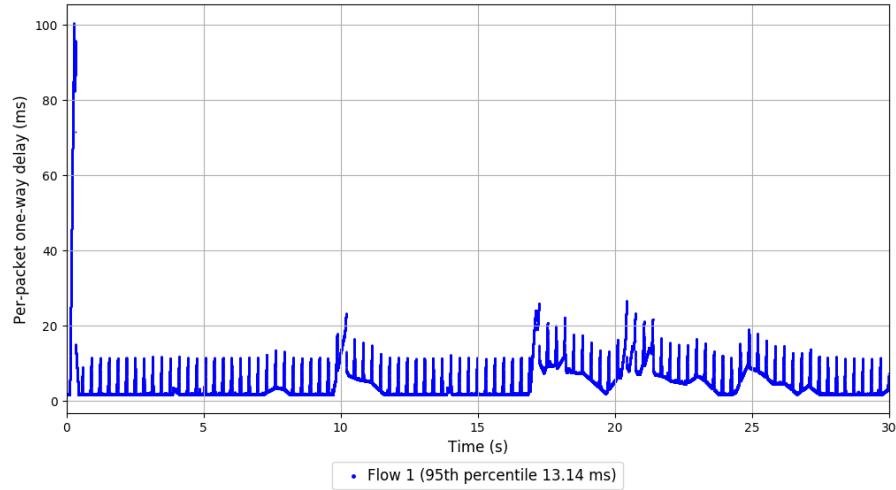
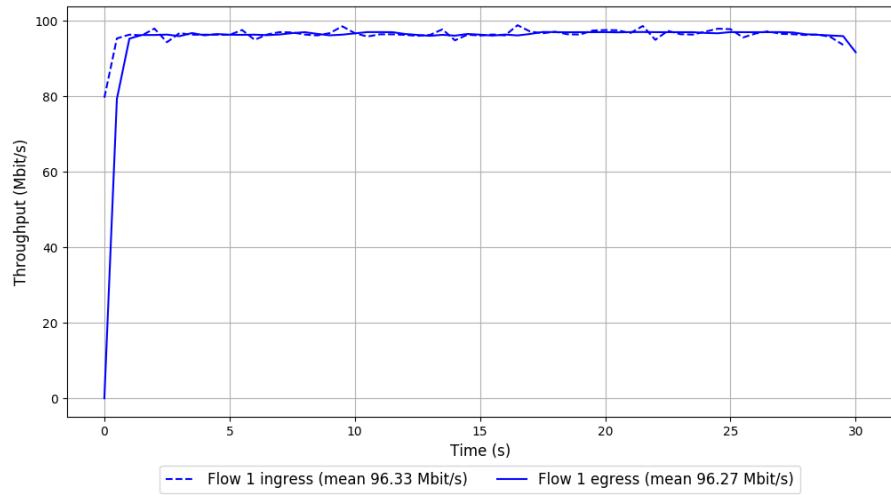


```
Run 4: Statistics of FillP
```

```
Start at: 2019-01-21 22:23:53
End at: 2019-01-21 22:24:23
Local clock offset: -4.716 ms
Remote clock offset: 1.024 ms

# Below is generated by plot.py at 2019-01-21 23:05:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 13.142 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 13.142 ms
Loss rate: 0.07%
```

Run 4: Report of FillP — Data Link

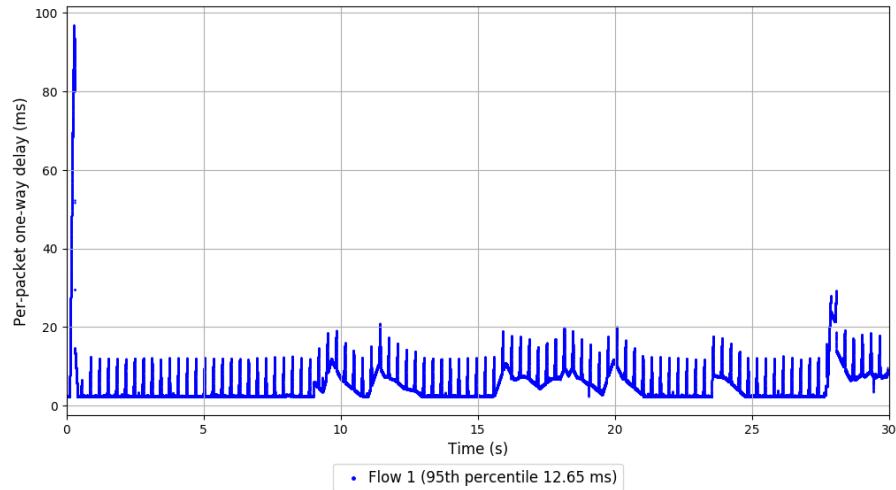
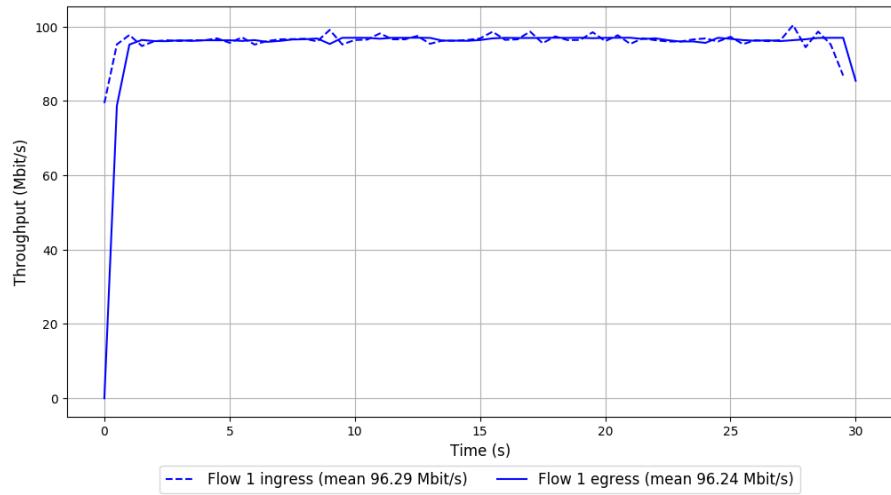


Run 5: Statistics of FillP

```
Start at: 2019-01-21 22:47:37
End at: 2019-01-21 22:48:07
Local clock offset: -4.608 ms
Remote clock offset: 1.008 ms

# Below is generated by plot.py at 2019-01-21 23:06:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.24 Mbit/s
95th percentile per-packet one-way delay: 12.650 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 96.24 Mbit/s
95th percentile per-packet one-way delay: 12.650 ms
Loss rate: 0.07%
```

Run 5: Report of FillP — Data Link

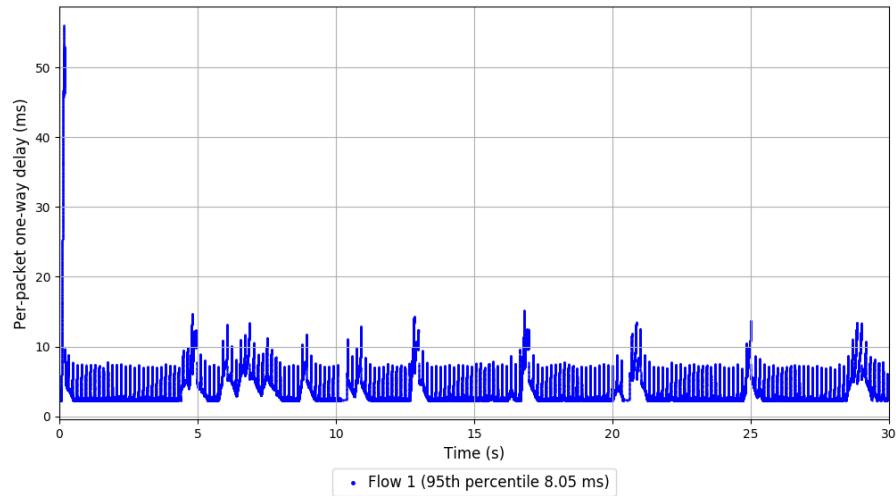
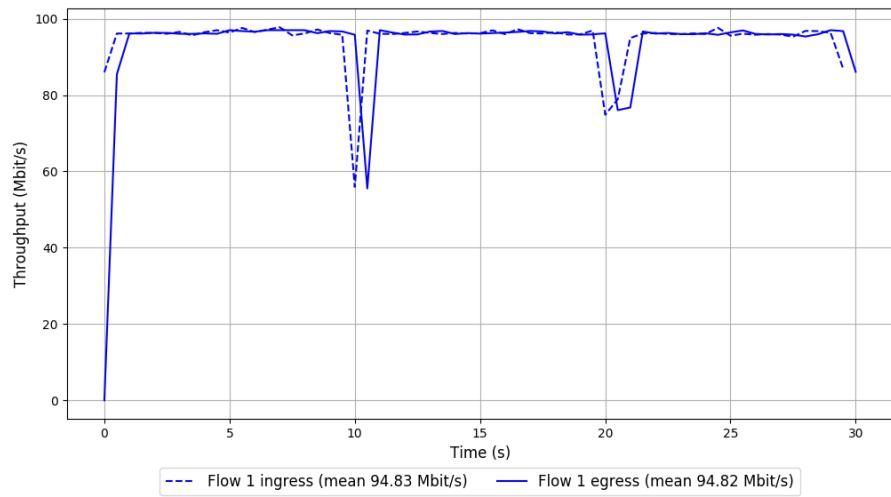


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-01-21 21:02:37
End at: 2019-01-21 21:03:07
Local clock offset: -4.302 ms
Remote clock offset: 0.365 ms

# Below is generated by plot.py at 2019-01-21 23:06:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.82 Mbit/s
95th percentile per-packet one-way delay: 8.054 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 94.82 Mbit/s
95th percentile per-packet one-way delay: 8.054 ms
Loss rate: 0.03%
```

Run 1: Report of FillP-Sheep — Data Link

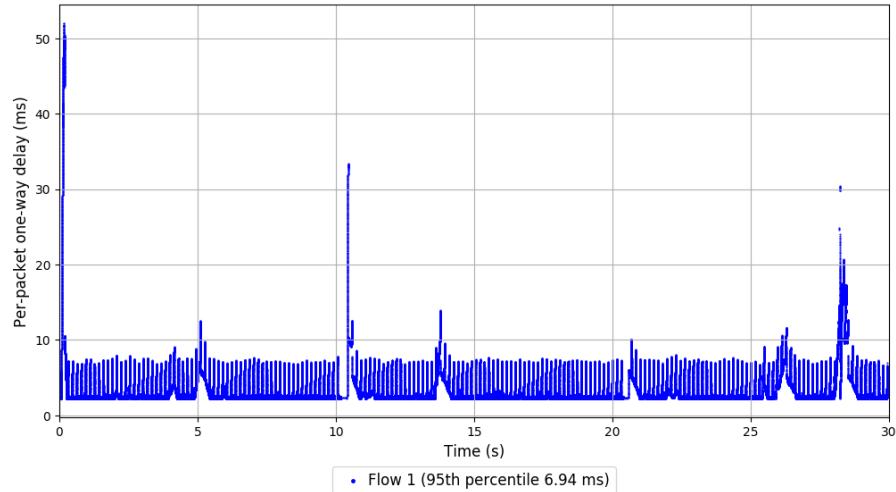
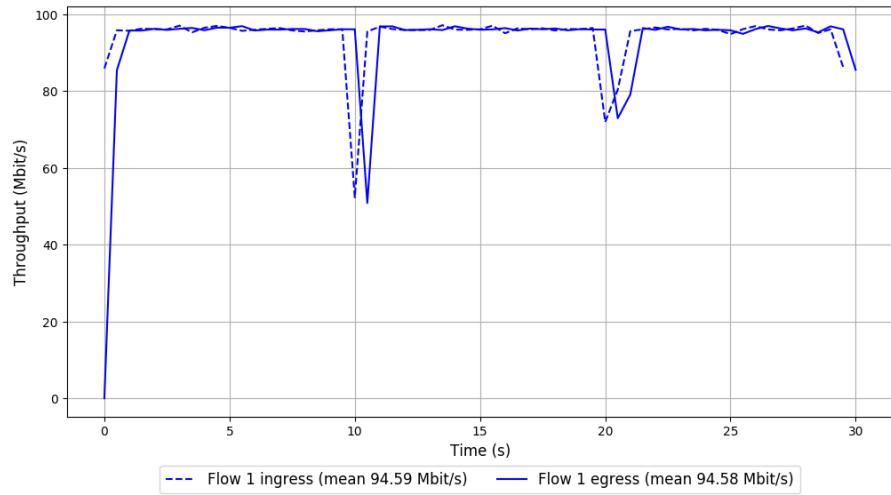


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-01-21 21:26:18
End at: 2019-01-21 21:26:48
Local clock offset: -4.777 ms
Remote clock offset: 0.665 ms

# Below is generated by plot.py at 2019-01-21 23:06:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.58 Mbit/s
95th percentile per-packet one-way delay: 6.938 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 94.58 Mbit/s
95th percentile per-packet one-way delay: 6.938 ms
Loss rate: 0.02%
```

Run 2: Report of FillP-Sheep — Data Link

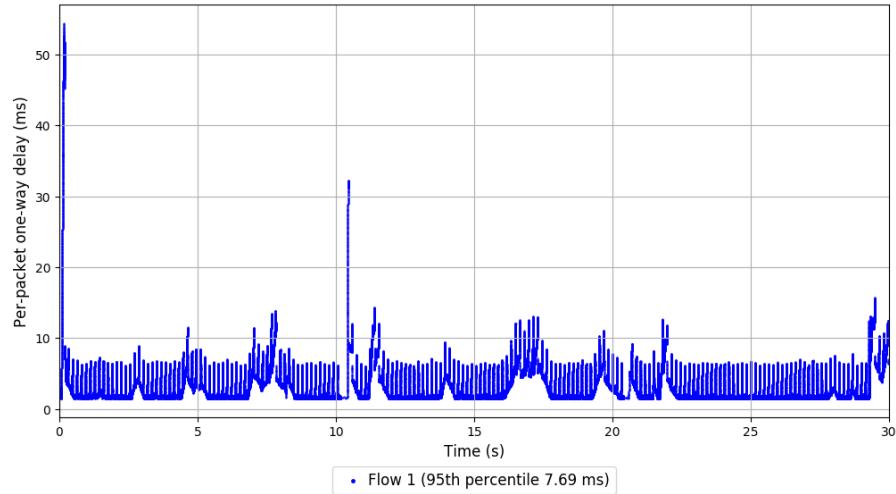
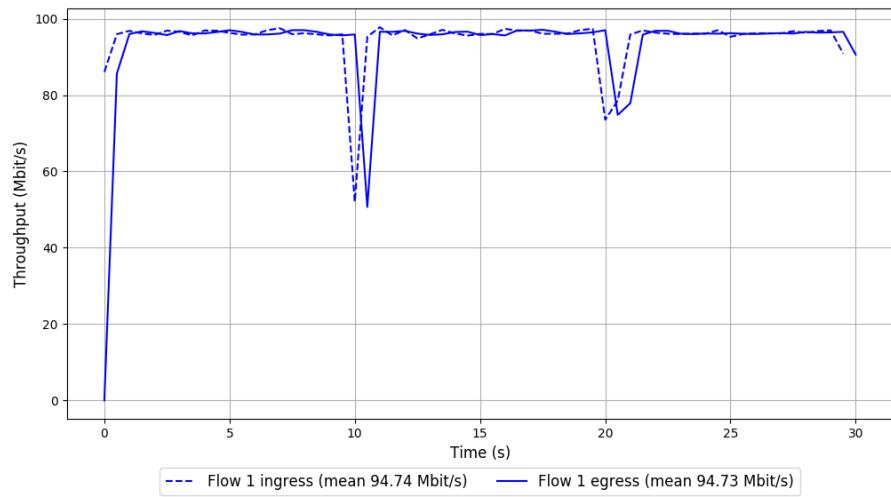


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-01-21 21:50:00
End at: 2019-01-21 21:50:30
Local clock offset: -5.189 ms
Remote clock offset: 0.755 ms

# Below is generated by plot.py at 2019-01-21 23:06:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.73 Mbit/s
95th percentile per-packet one-way delay: 7.686 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 94.73 Mbit/s
95th percentile per-packet one-way delay: 7.686 ms
Loss rate: 0.03%
```

Run 3: Report of FillP-Sheep — Data Link

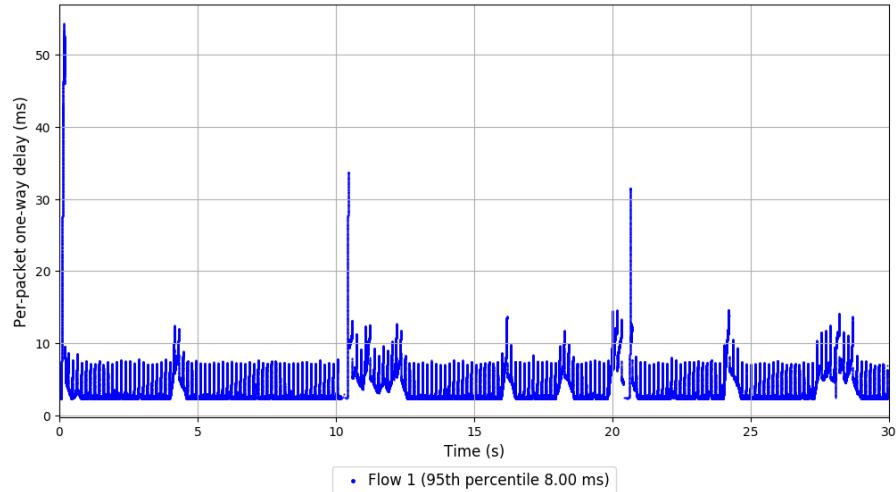
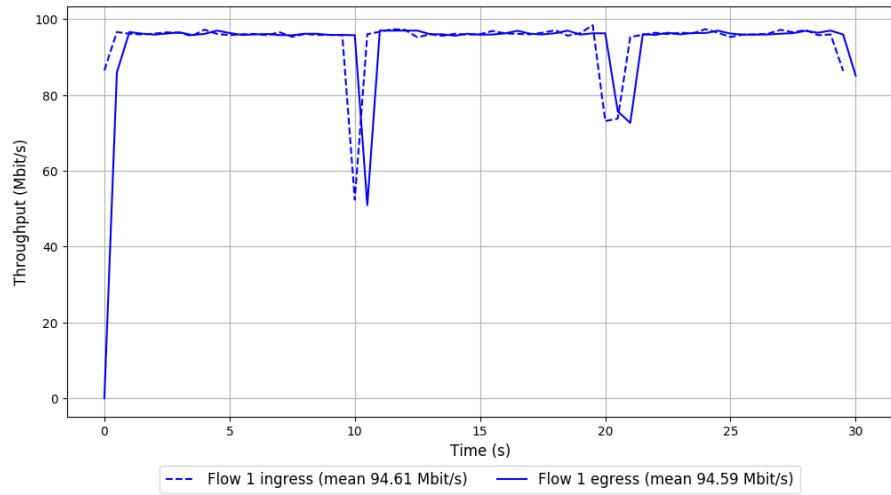


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-21 22:13:42
End at: 2019-01-21 22:14:12
Local clock offset: -3.233 ms
Remote clock offset: 1.016 ms

# Below is generated by plot.py at 2019-01-21 23:06:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.59 Mbit/s
95th percentile per-packet one-way delay: 7.998 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 94.59 Mbit/s
95th percentile per-packet one-way delay: 7.998 ms
Loss rate: 0.03%
```

Run 4: Report of FillP-Sheep — Data Link

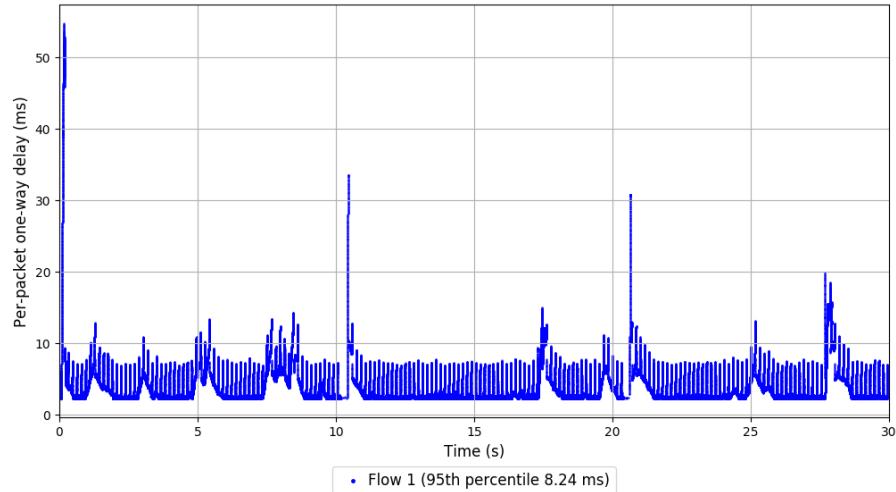
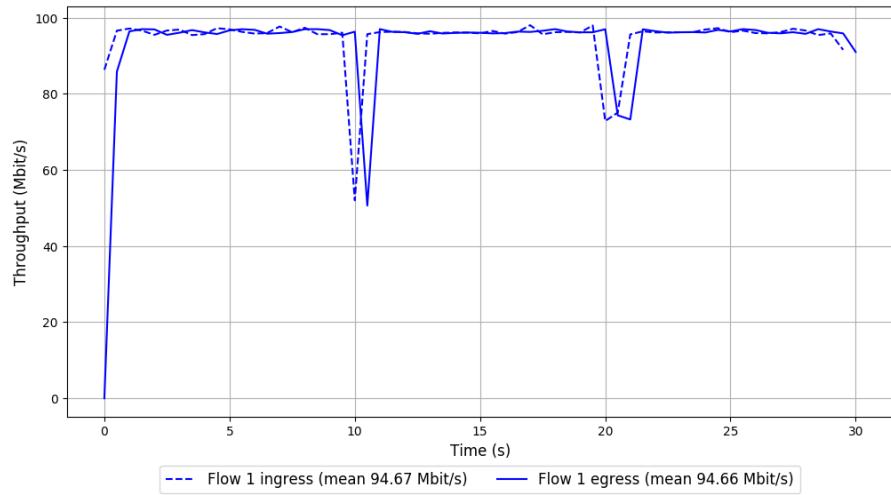


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-21 22:37:25
End at: 2019-01-21 22:37:55
Local clock offset: -4.425 ms
Remote clock offset: 1.064 ms

# Below is generated by plot.py at 2019-01-21 23:07:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.66 Mbit/s
95th percentile per-packet one-way delay: 8.244 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 94.66 Mbit/s
95th percentile per-packet one-way delay: 8.244 ms
Loss rate: 0.02%
```

Run 5: Report of FillP-Sheep — Data Link

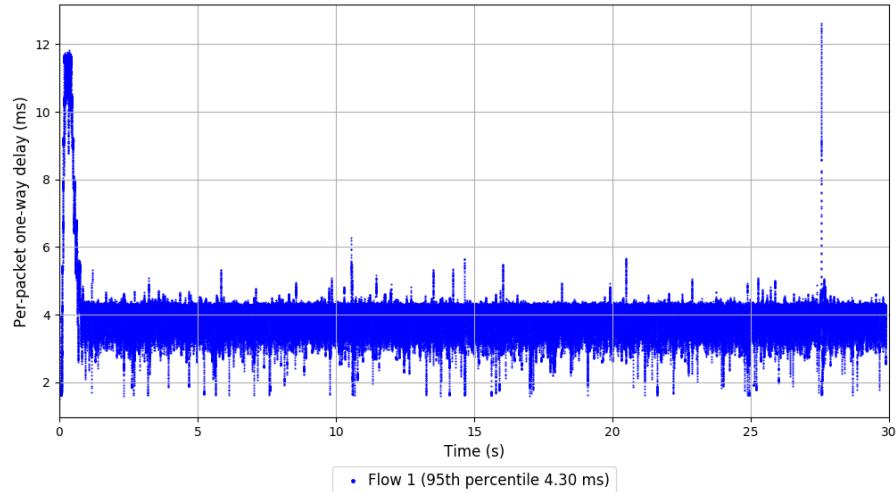
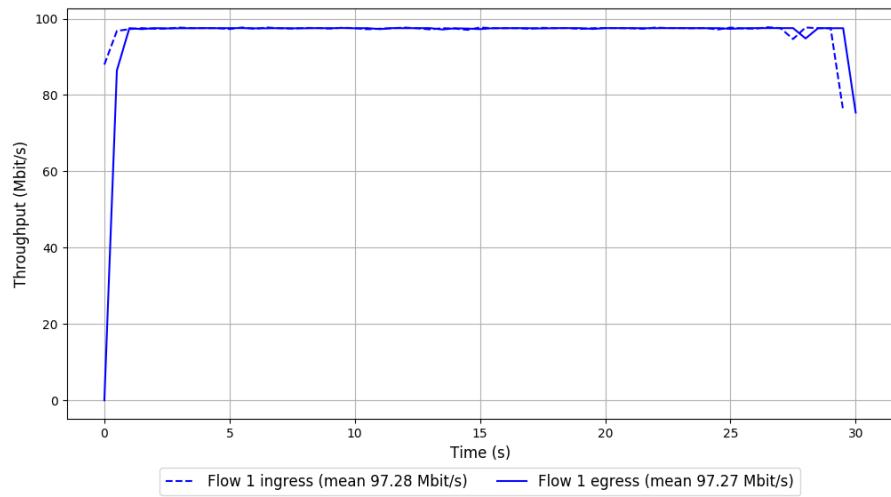


Run 1: Statistics of Indigo

```
Start at: 2019-01-21 21:19:34
End at: 2019-01-21 21:20:04
Local clock offset: -5.614 ms
Remote clock offset: 0.516 ms

# Below is generated by plot.py at 2019-01-21 23:07:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.27 Mbit/s
95th percentile per-packet one-way delay: 4.304 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.27 Mbit/s
95th percentile per-packet one-way delay: 4.304 ms
Loss rate: 0.02%
```

Run 1: Report of Indigo — Data Link

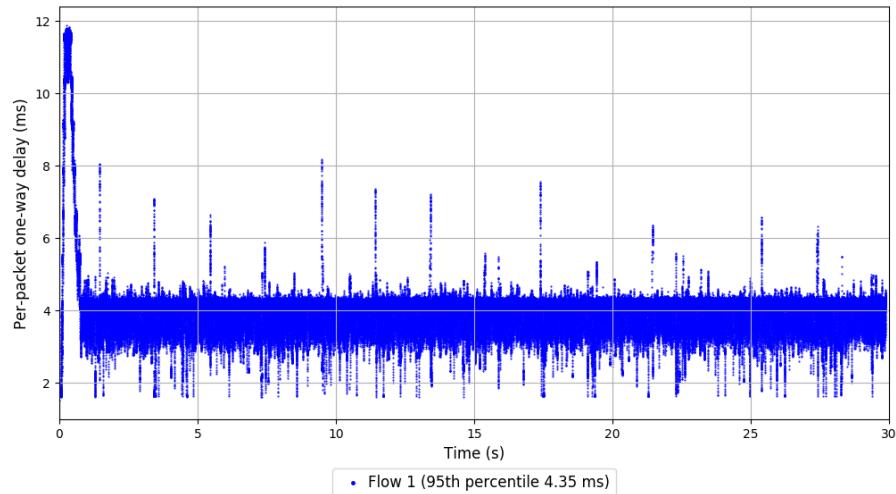
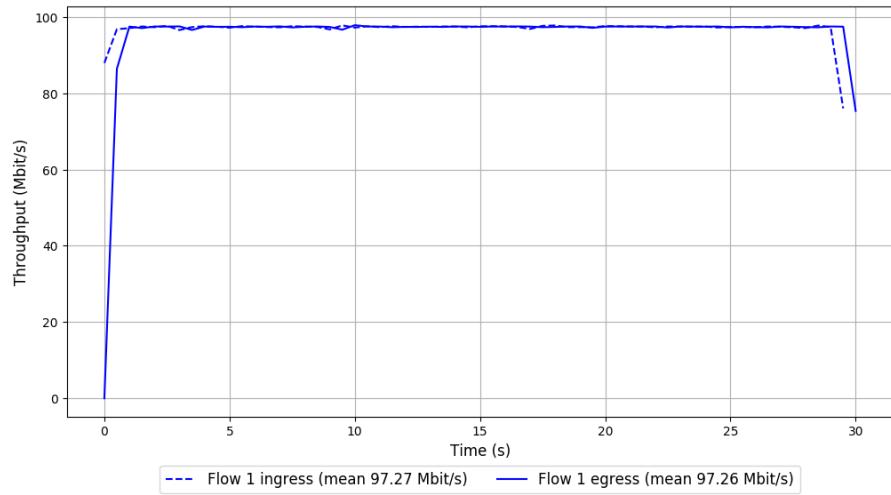


Run 2: Statistics of Indigo

```
Start at: 2019-01-21 21:43:19
End at: 2019-01-21 21:43:49
Local clock offset: -5.886 ms
Remote clock offset: 0.82 ms

# Below is generated by plot.py at 2019-01-21 23:07:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.26 Mbit/s
95th percentile per-packet one-way delay: 4.346 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.26 Mbit/s
95th percentile per-packet one-way delay: 4.346 ms
Loss rate: 0.02%
```

Run 2: Report of Indigo — Data Link

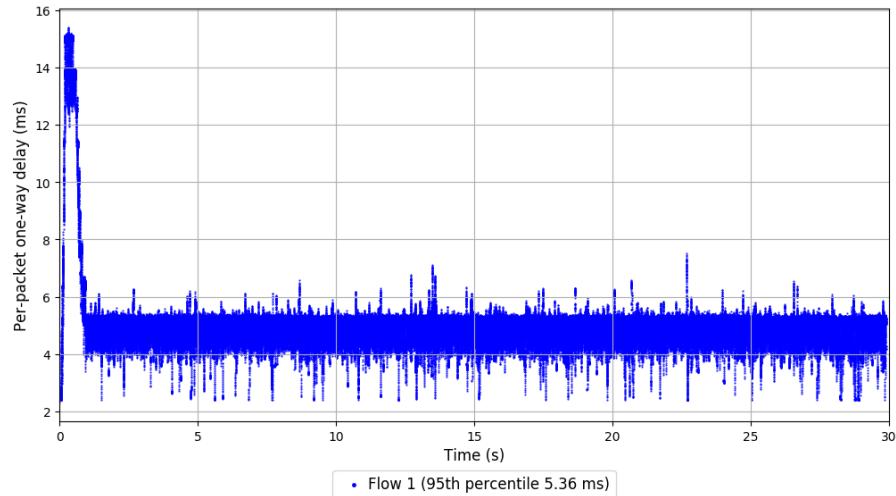
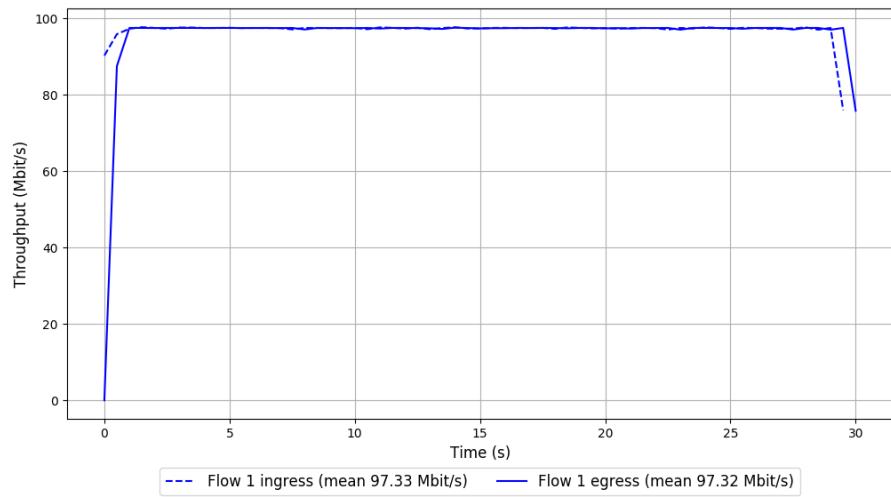


Run 3: Statistics of Indigo

```
Start at: 2019-01-21 22:06:57
End at: 2019-01-21 22:07:27
Local clock offset: -3.356 ms
Remote clock offset: 0.977 ms

# Below is generated by plot.py at 2019-01-21 23:07:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.32 Mbit/s
95th percentile per-packet one-way delay: 5.360 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.32 Mbit/s
95th percentile per-packet one-way delay: 5.360 ms
Loss rate: 0.02%
```

Run 3: Report of Indigo — Data Link

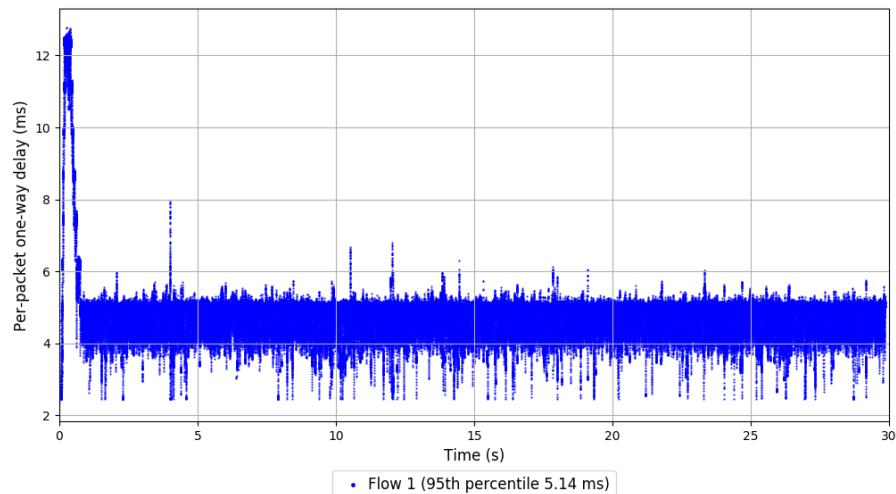
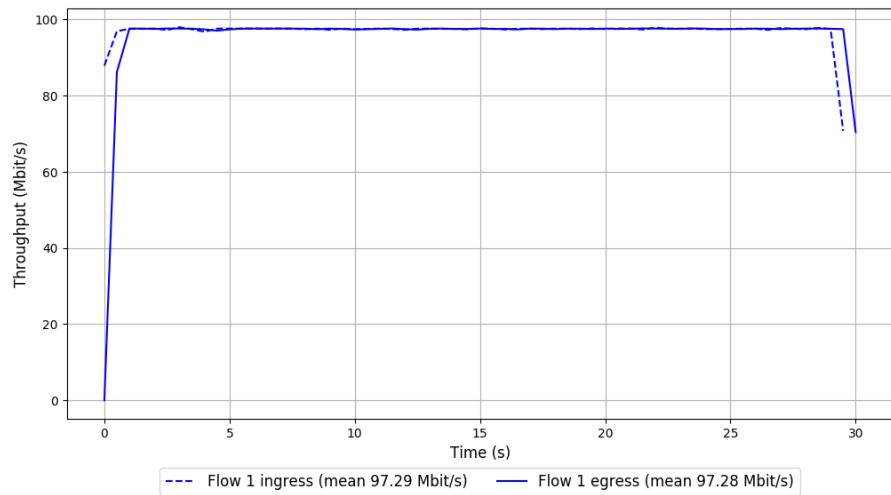


Run 4: Statistics of Indigo

```
Start at: 2019-01-21 22:30:42
End at: 2019-01-21 22:31:12
Local clock offset: -4.254 ms
Remote clock offset: 1.036 ms

# Below is generated by plot.py at 2019-01-21 23:07:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.28 Mbit/s
95th percentile per-packet one-way delay: 5.143 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.28 Mbit/s
95th percentile per-packet one-way delay: 5.143 ms
Loss rate: 0.02%
```

Run 4: Report of Indigo — Data Link

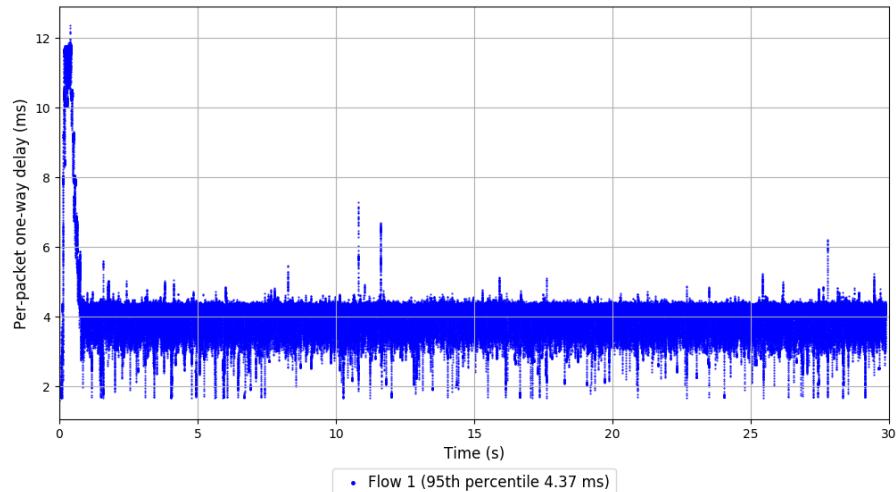
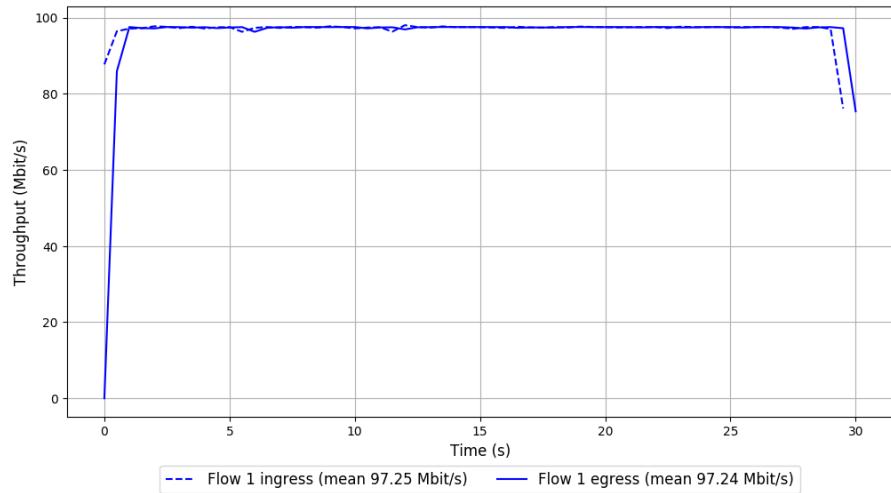


Run 5: Statistics of Indigo

```
Start at: 2019-01-21 22:54:24
End at: 2019-01-21 22:54:54
Local clock offset: -5.521 ms
Remote clock offset: 0.973 ms

# Below is generated by plot.py at 2019-01-21 23:07:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.24 Mbit/s
95th percentile per-packet one-way delay: 4.370 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.24 Mbit/s
95th percentile per-packet one-way delay: 4.370 ms
Loss rate: 0.02%
```

Run 5: Report of Indigo — Data Link

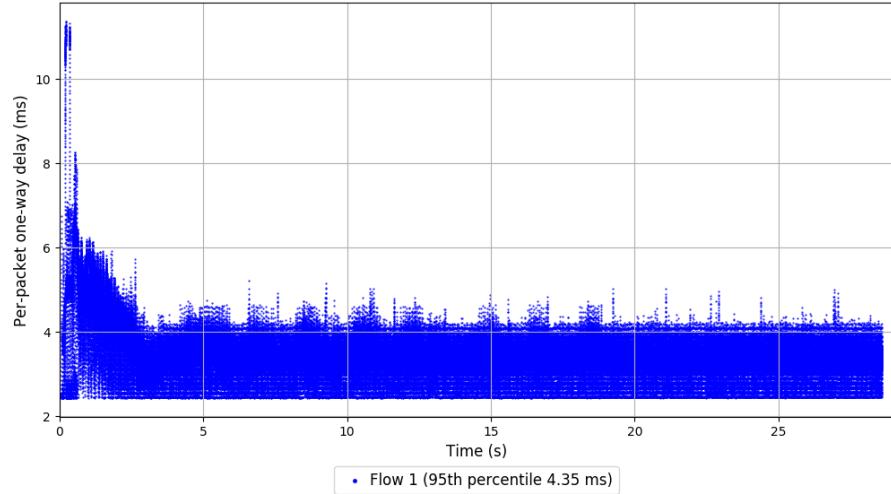
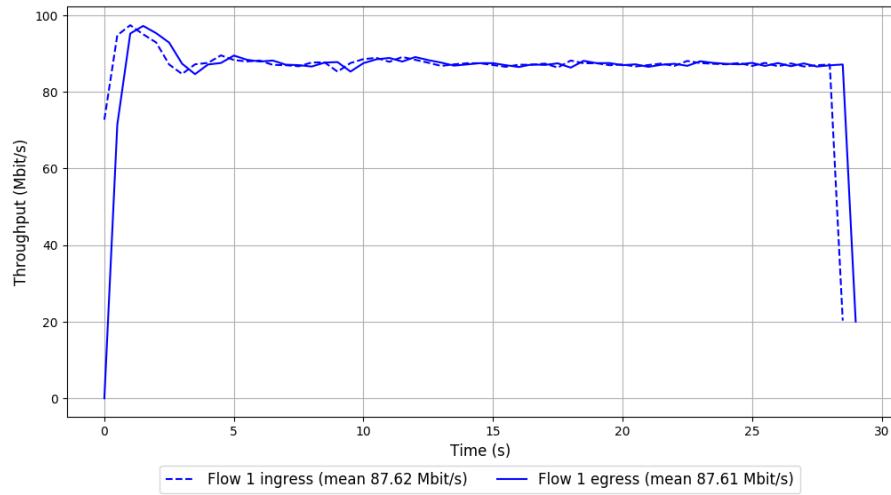


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 21:22:56
End at: 2019-01-21 21:23:26
Local clock offset: -4.764 ms
Remote clock offset: 0.575 ms

# Below is generated by plot.py at 2019-01-21 23:07:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.61 Mbit/s
95th percentile per-packet one-way delay: 4.352 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 87.61 Mbit/s
95th percentile per-packet one-way delay: 4.352 ms
Loss rate: 0.02%
```

Run 1: Report of Indigo-MusesC3 — Data Link

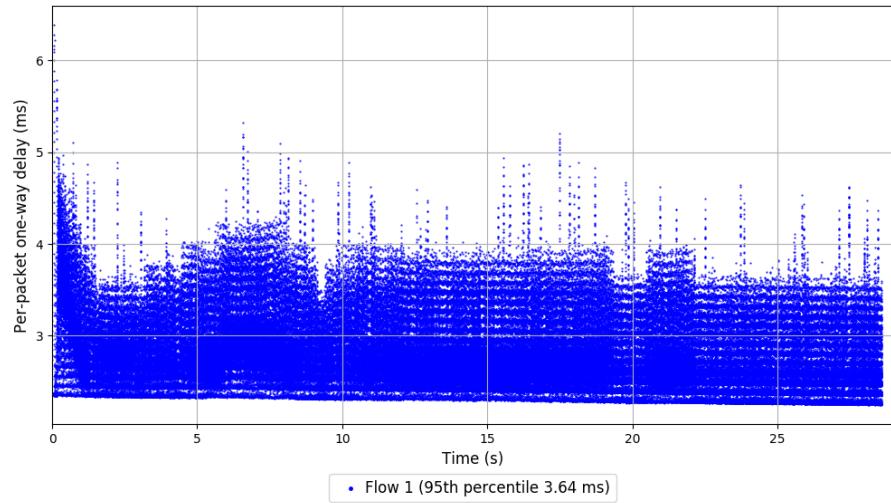
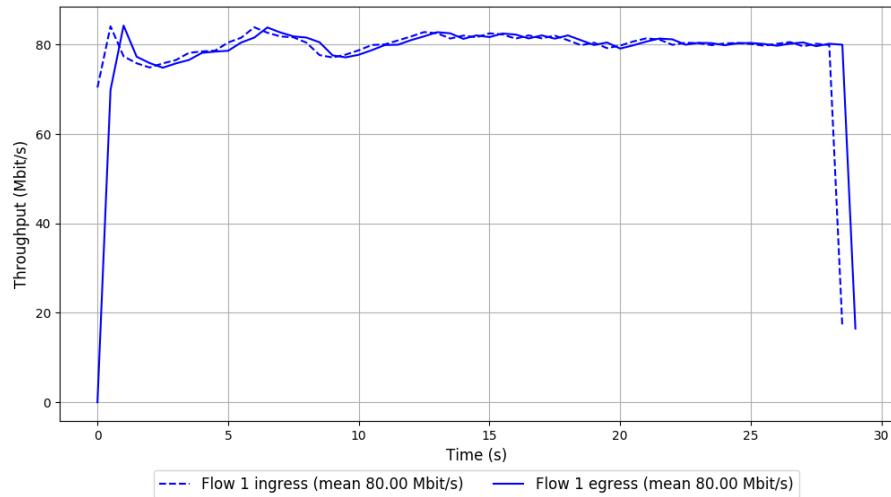


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 21:46:39
End at: 2019-01-21 21:47:09
Local clock offset: -5.05 ms
Remote clock offset: 0.764 ms

# Below is generated by plot.py at 2019-01-21 23:07:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.00 Mbit/s
95th percentile per-packet one-way delay: 3.637 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 80.00 Mbit/s
95th percentile per-packet one-way delay: 3.637 ms
Loss rate: 0.02%
```

Run 2: Report of Indigo-MusesC3 — Data Link

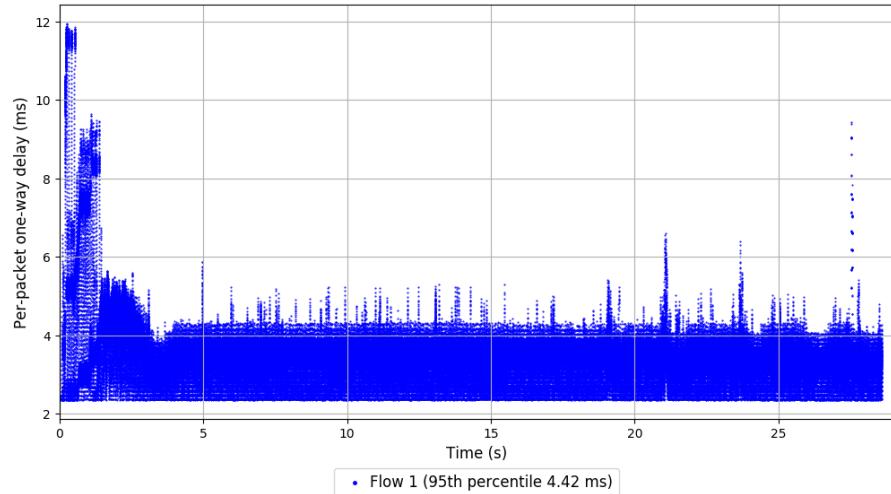
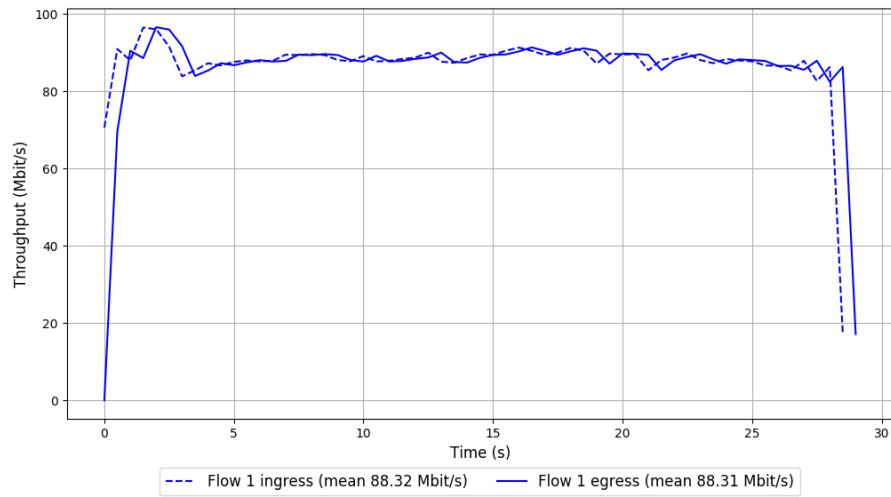


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 22:10:20
End at: 2019-01-21 22:10:50
Local clock offset: -3.293 ms
Remote clock offset: 1.053 ms

# Below is generated by plot.py at 2019-01-21 23:07:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.31 Mbit/s
95th percentile per-packet one-way delay: 4.417 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 88.31 Mbit/s
95th percentile per-packet one-way delay: 4.417 ms
Loss rate: 0.02%
```

Run 3: Report of Indigo-MusesC3 — Data Link

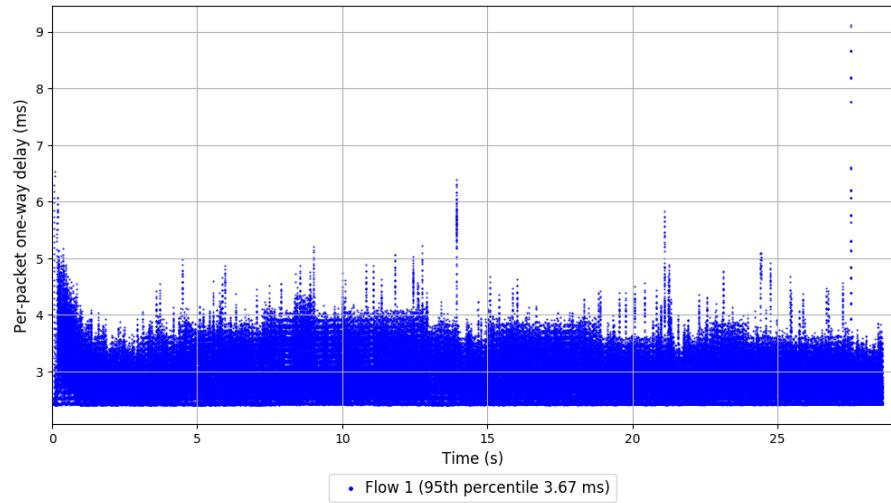
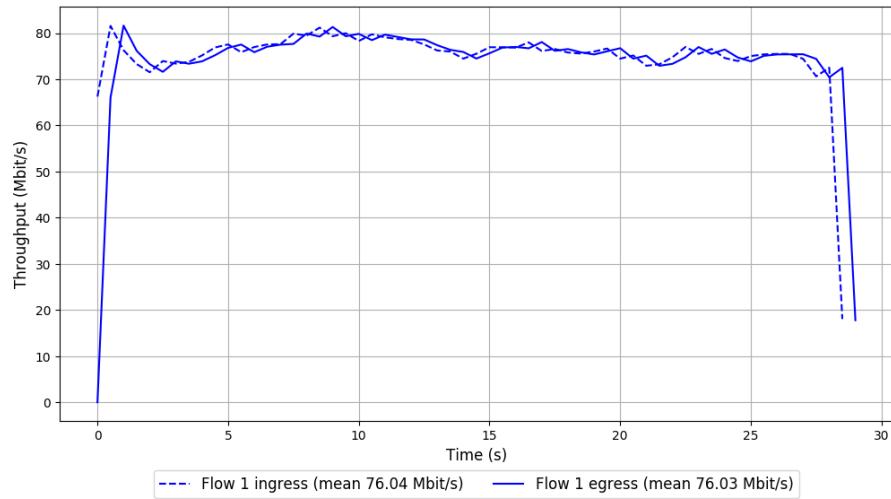


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 22:34:05
End at: 2019-01-21 22:34:35
Local clock offset: -4.346 ms
Remote clock offset: 1.043 ms

# Below is generated by plot.py at 2019-01-21 23:07:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.03 Mbit/s
95th percentile per-packet one-way delay: 3.670 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 76.03 Mbit/s
95th percentile per-packet one-way delay: 3.670 ms
Loss rate: 0.02%
```

Run 4: Report of Indigo-MusesC3 — Data Link

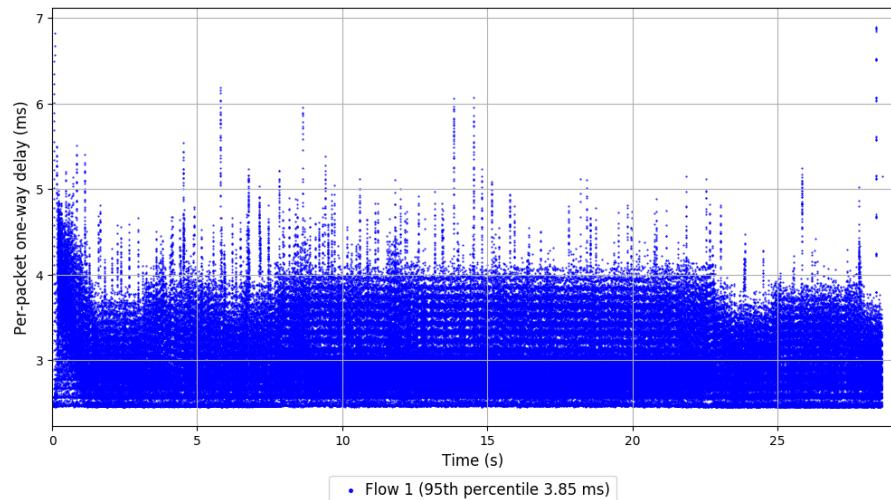
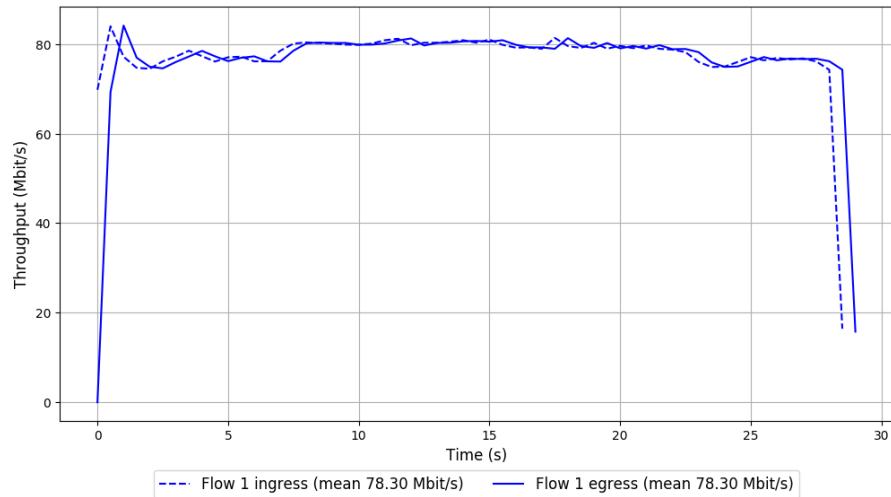


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 22:57:45
End at: 2019-01-21 22:58:15
Local clock offset: -4.81 ms
Remote clock offset: 0.881 ms

# Below is generated by plot.py at 2019-01-21 23:08:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.30 Mbit/s
95th percentile per-packet one-way delay: 3.846 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 78.30 Mbit/s
95th percentile per-packet one-way delay: 3.846 ms
Loss rate: 0.02%
```

Run 5: Report of Indigo-MusesC3 — Data Link

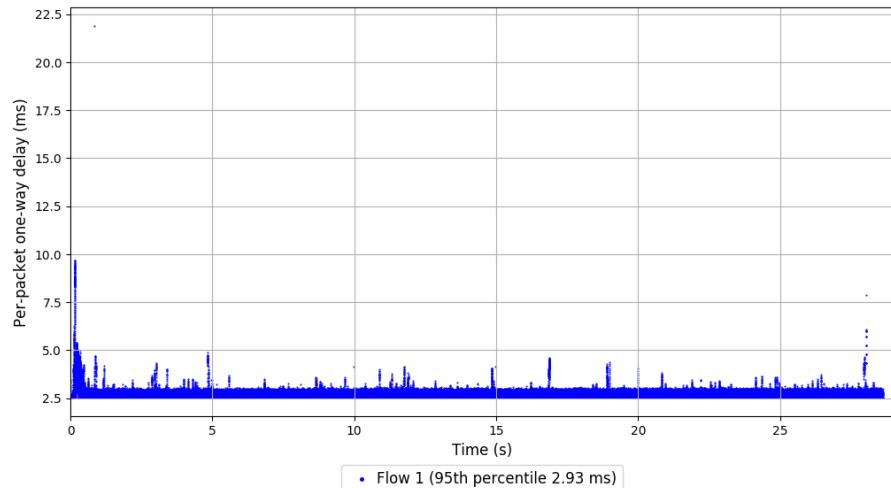
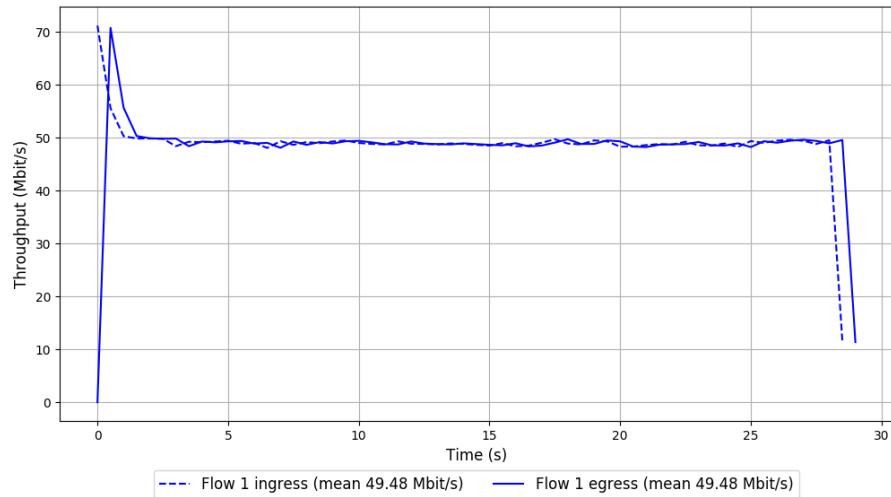


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-01-21 21:24:04
End at: 2019-01-21 21:24:34
Local clock offset: -4.76 ms
Remote clock offset: 0.478 ms

# Below is generated by plot.py at 2019-01-21 23:08:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.48 Mbit/s
95th percentile per-packet one-way delay: 2.931 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 49.48 Mbit/s
95th percentile per-packet one-way delay: 2.931 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-MusesC5 — Data Link

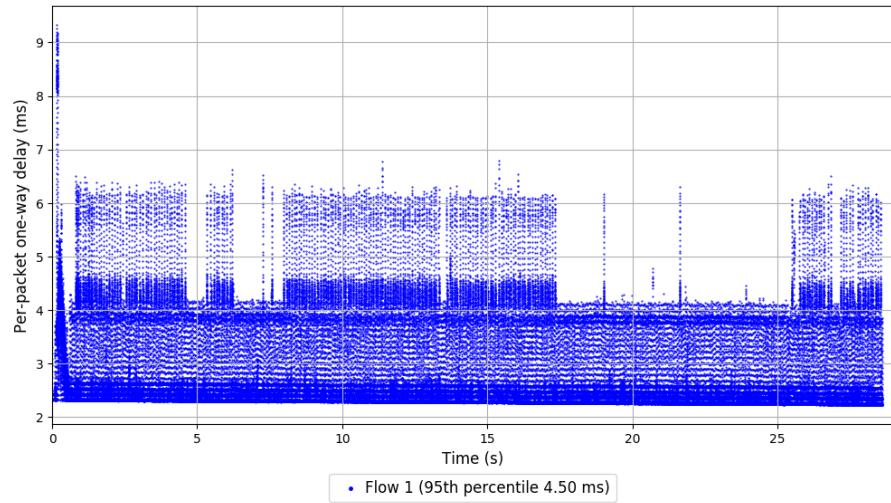
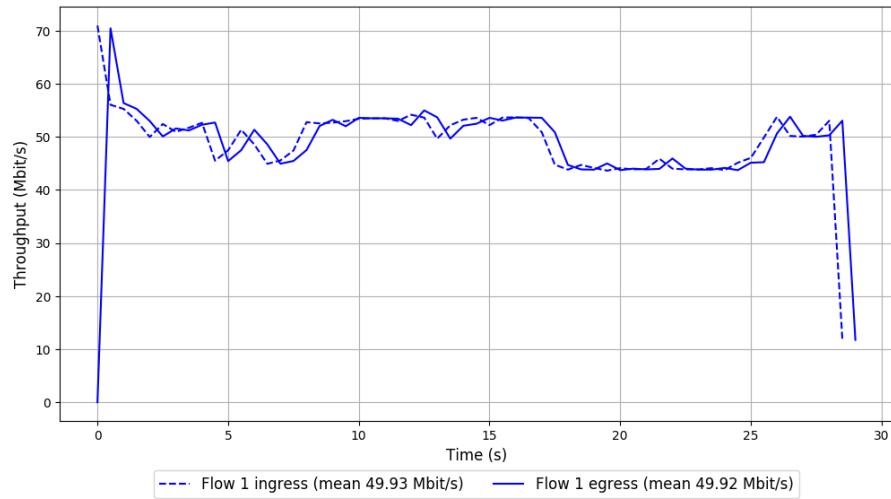


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 21:47:46
End at: 2019-01-21 21:48:16
Local clock offset: -4.856 ms
Remote clock offset: 0.774 ms

# Below is generated by plot.py at 2019-01-21 23:08:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.92 Mbit/s
95th percentile per-packet one-way delay: 4.495 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 49.92 Mbit/s
95th percentile per-packet one-way delay: 4.495 ms
Loss rate: 0.02%
```

Run 2: Report of Indigo-MusesC5 — Data Link

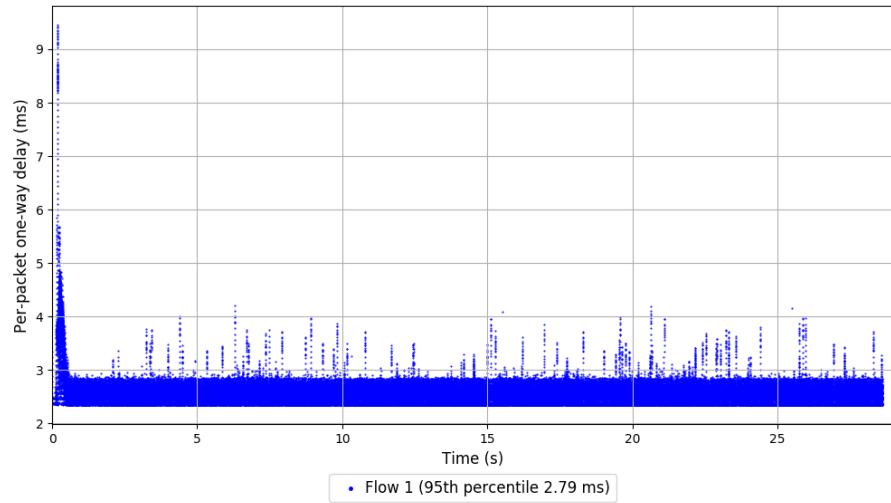
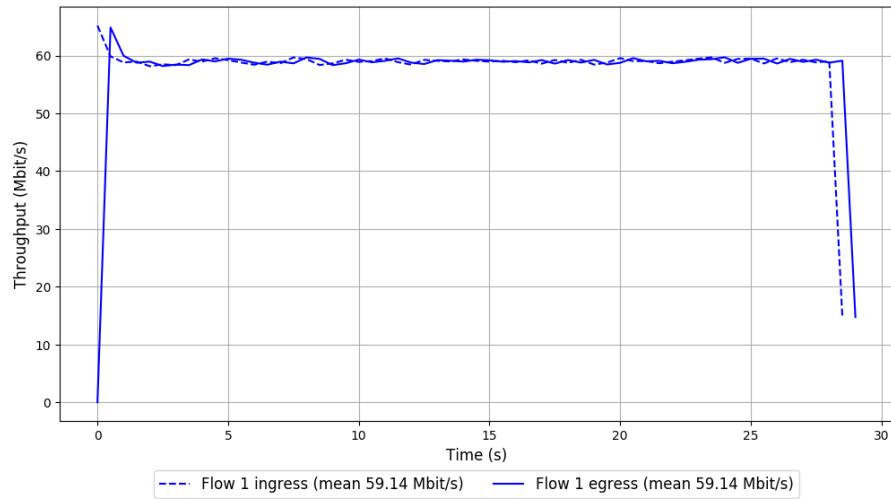


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 22:11:27
End at: 2019-01-21 22:11:57
Local clock offset: -3.277 ms
Remote clock offset: 1.069 ms

# Below is generated by plot.py at 2019-01-21 23:08:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.14 Mbit/s
95th percentile per-packet one-way delay: 2.789 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 59.14 Mbit/s
95th percentile per-packet one-way delay: 2.789 ms
Loss rate: 0.02%
```

Run 3: Report of Indigo-MusesC5 — Data Link

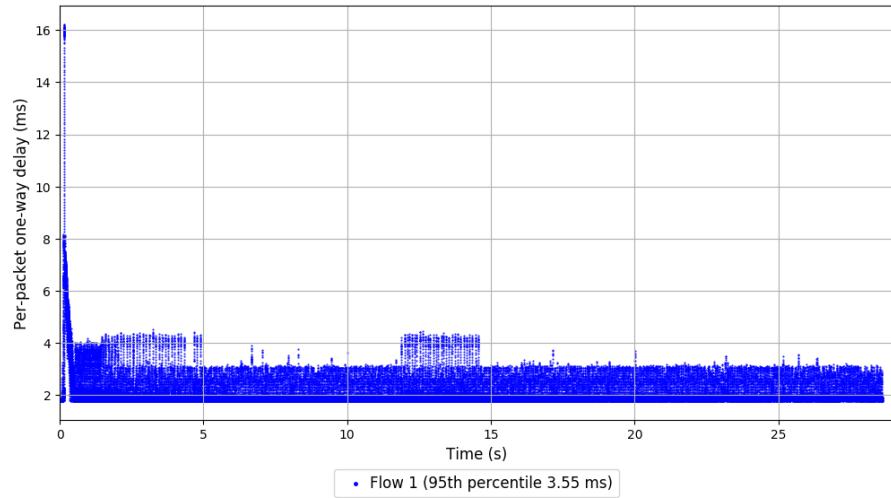
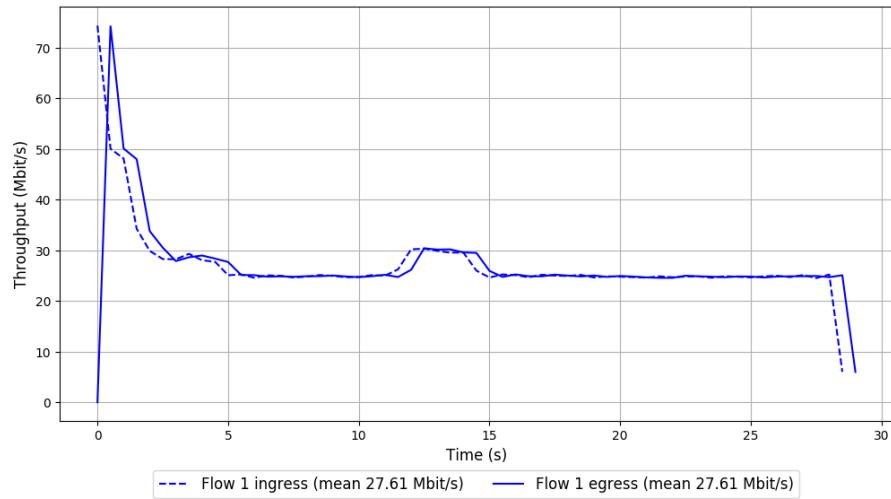


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 22:35:12
End at: 2019-01-21 22:35:42
Local clock offset: -5.13 ms
Remote clock offset: 0.917 ms

# Below is generated by plot.py at 2019-01-21 23:08:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.61 Mbit/s
95th percentile per-packet one-way delay: 3.551 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 27.61 Mbit/s
95th percentile per-packet one-way delay: 3.551 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo-MusesC5 — Data Link

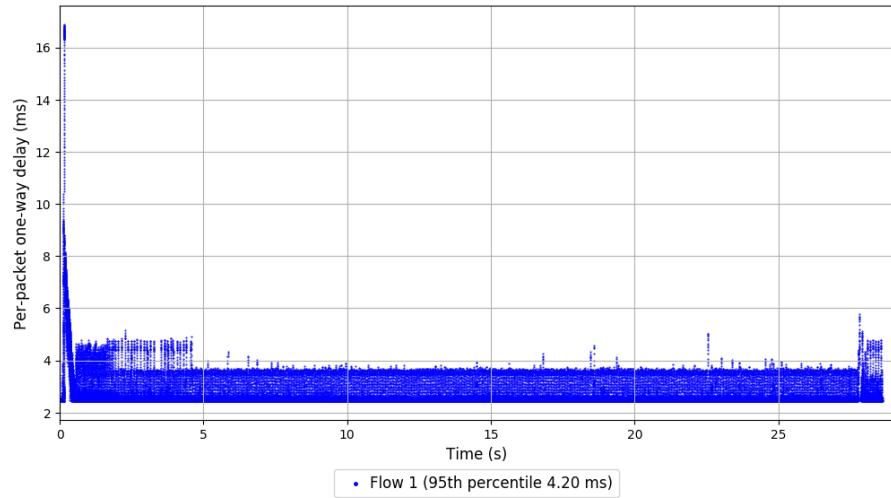
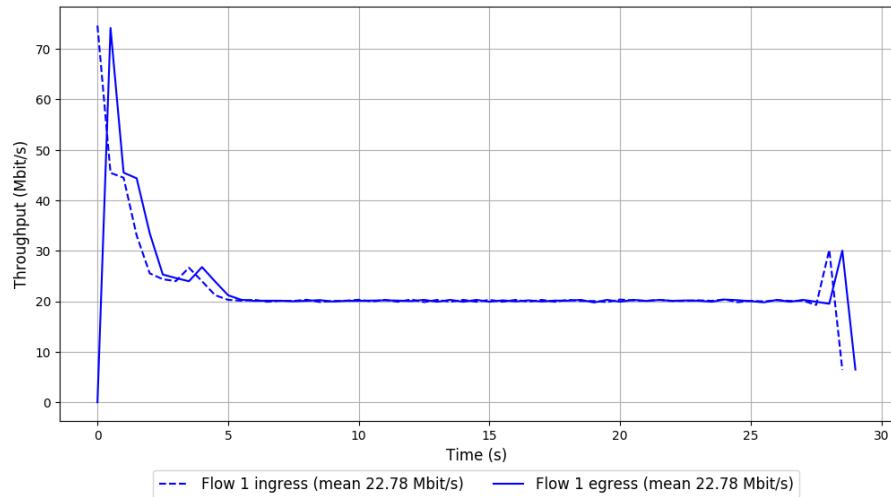


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 22:58:52
End at: 2019-01-21 22:59:22
Local clock offset: -4.843 ms
Remote clock offset: 0.867 ms

# Below is generated by plot.py at 2019-01-21 23:08:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 22.78 Mbit/s
95th percentile per-packet one-way delay: 4.195 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 22.78 Mbit/s
95th percentile per-packet one-way delay: 4.195 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo-MusesC5 — Data Link

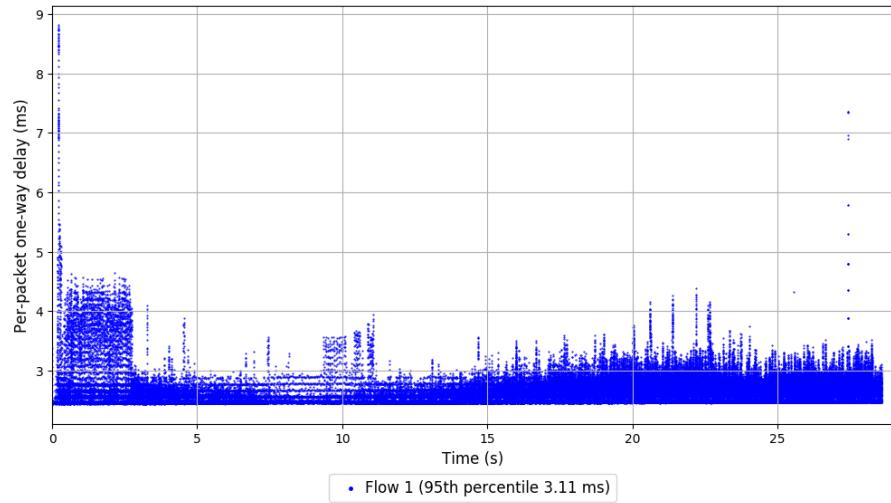
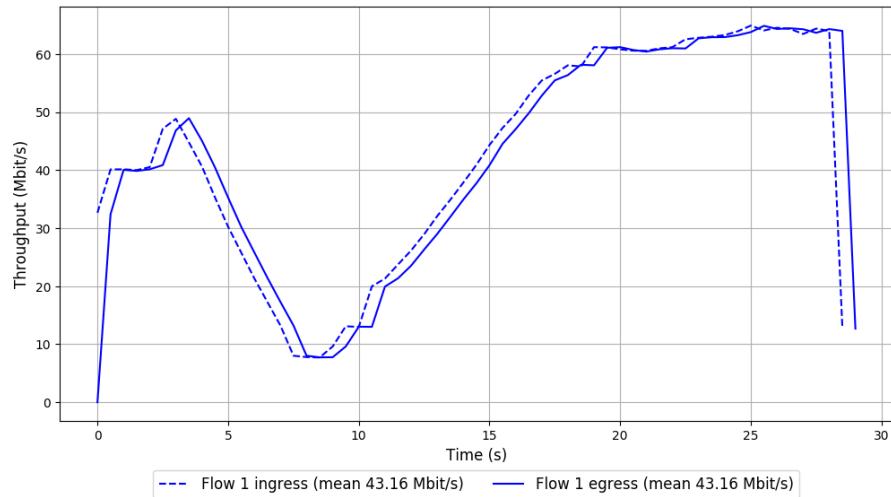


```
Run 1: Statistics of Indigo-MusesD
```

```
Start at: 2019-01-21 21:11:42
End at: 2019-01-21 21:12:12
Local clock offset: -4.702 ms
Remote clock offset: 0.401 ms

# Below is generated by plot.py at 2019-01-21 23:08:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.16 Mbit/s
95th percentile per-packet one-way delay: 3.107 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 43.16 Mbit/s
95th percentile per-packet one-way delay: 3.107 ms
Loss rate: 0.02%
```

Run 1: Report of Indigo-MusesD — Data Link

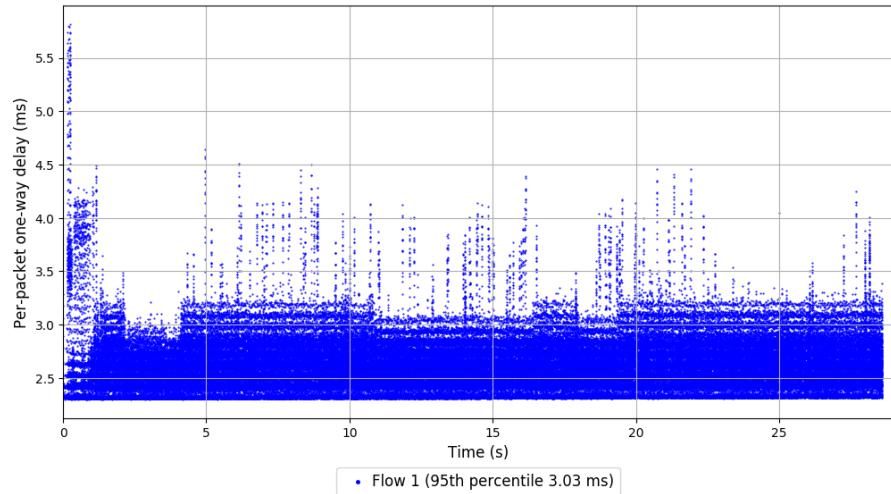
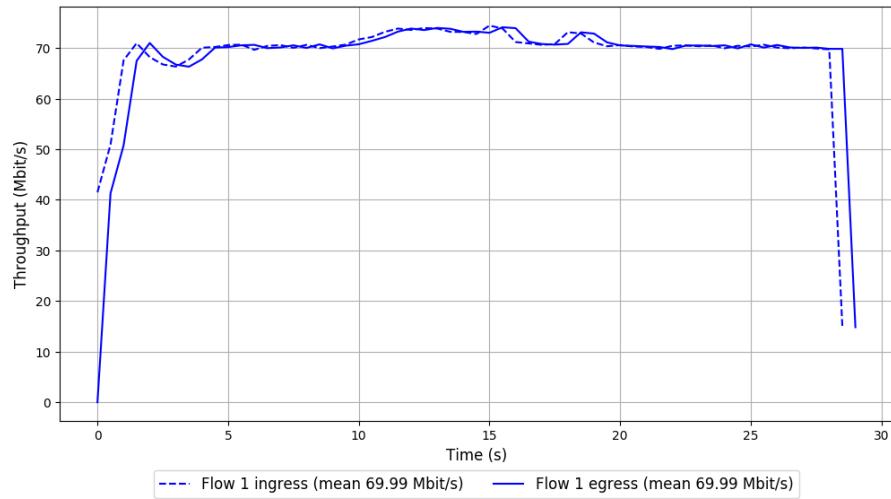


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 21:35:23
End at: 2019-01-21 21:35:53
Local clock offset: -4.991 ms
Remote clock offset: 0.757 ms

# Below is generated by plot.py at 2019-01-21 23:08:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.99 Mbit/s
95th percentile per-packet one-way delay: 3.030 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 69.99 Mbit/s
95th percentile per-packet one-way delay: 3.030 ms
Loss rate: 0.02%
```

Run 2: Report of Indigo-MusesD — Data Link

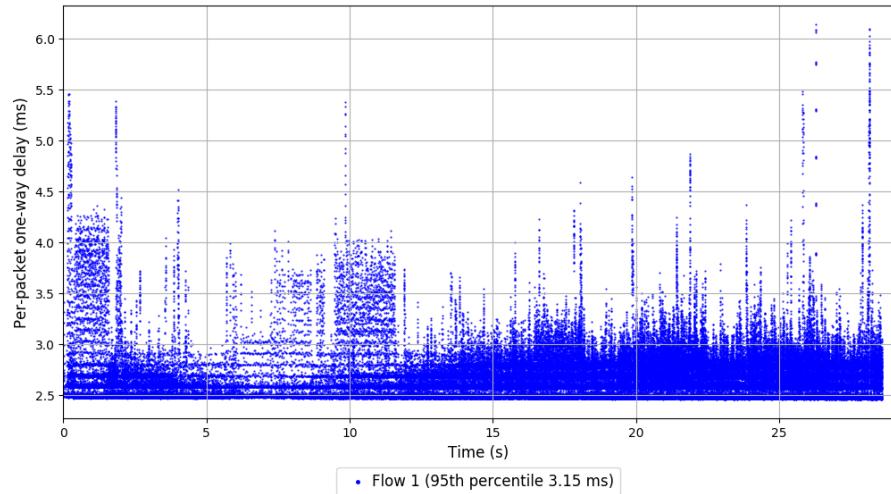
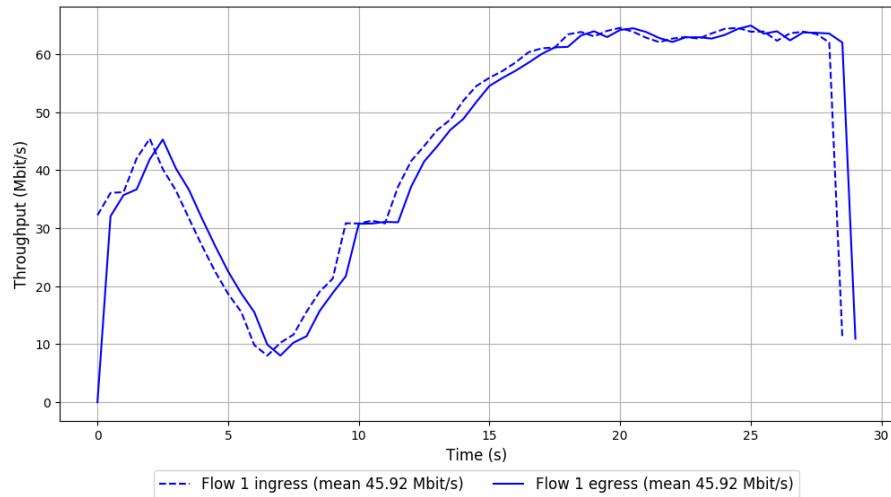


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 21:59:05
End at: 2019-01-21 21:59:35
Local clock offset: -3.581 ms
Remote clock offset: 0.811 ms

# Below is generated by plot.py at 2019-01-21 23:08:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.92 Mbit/s
95th percentile per-packet one-way delay: 3.151 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 45.92 Mbit/s
95th percentile per-packet one-way delay: 3.151 ms
Loss rate: 0.02%
```

Run 3: Report of Indigo-MusesD — Data Link

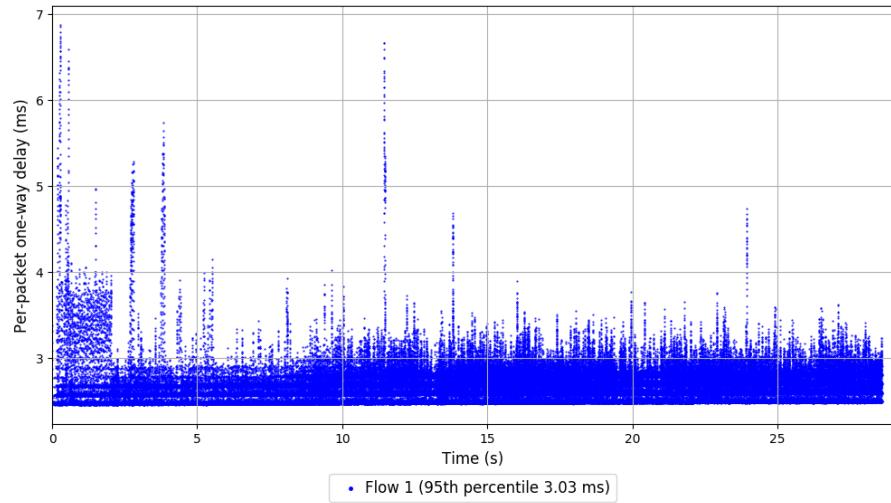
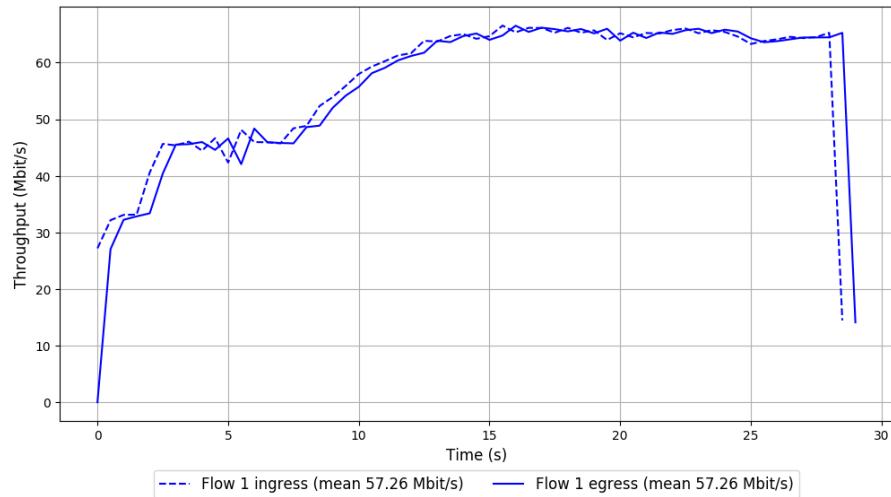


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 22:22:46
End at: 2019-01-21 22:23:16
Local clock offset: -3.847 ms
Remote clock offset: 1.053 ms

# Below is generated by plot.py at 2019-01-21 23:08:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.26 Mbit/s
95th percentile per-packet one-way delay: 3.026 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 57.26 Mbit/s
95th percentile per-packet one-way delay: 3.026 ms
Loss rate: 0.02%
```

Run 4: Report of Indigo-MusesD — Data Link

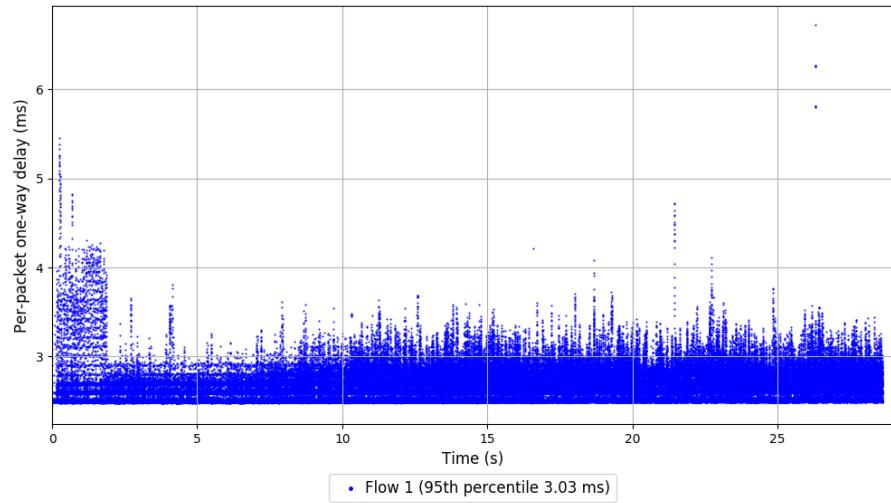
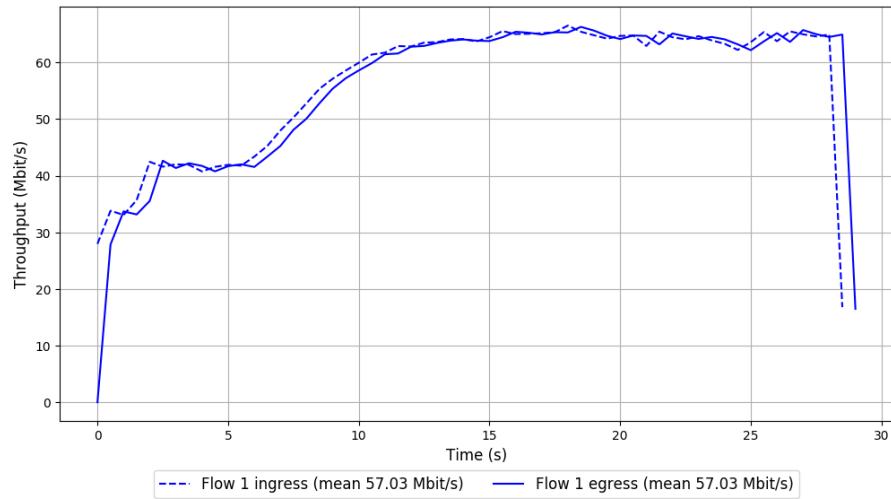


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 22:46:30
End at: 2019-01-21 22:47:00
Local clock offset: -4.604 ms
Remote clock offset: 0.945 ms

# Below is generated by plot.py at 2019-01-21 23:08:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.03 Mbit/s
95th percentile per-packet one-way delay: 3.032 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 57.03 Mbit/s
95th percentile per-packet one-way delay: 3.032 ms
Loss rate: 0.02%
```

Run 5: Report of Indigo-MusesD — Data Link

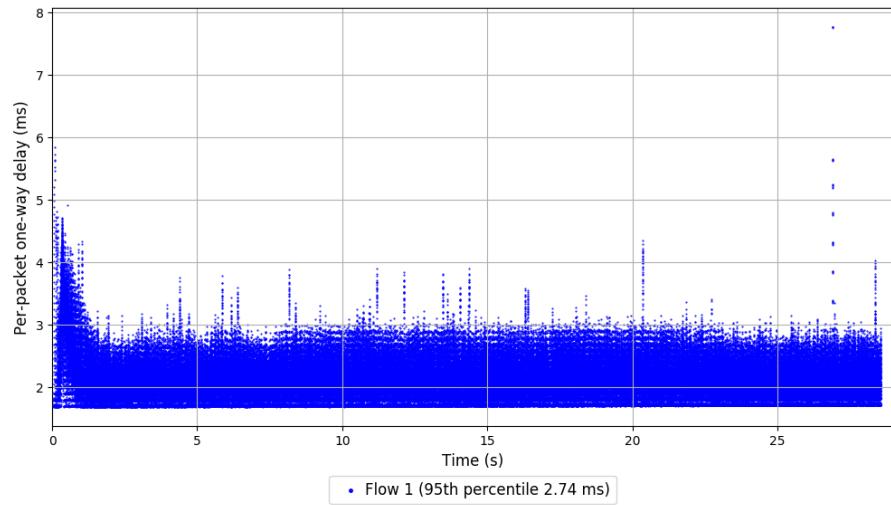
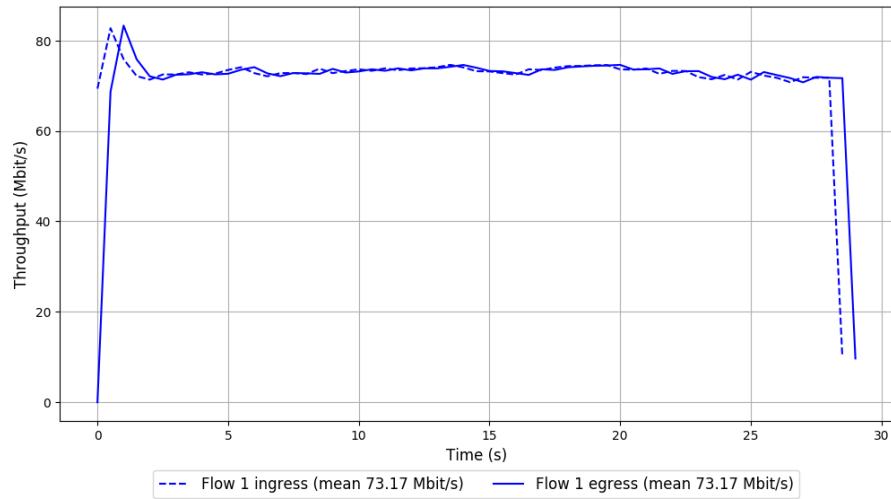


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 21:09:24
End at: 2019-01-21 21:09:54
Local clock offset: -5.345 ms
Remote clock offset: 0.376 ms

# Below is generated by plot.py at 2019-01-21 23:08:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.17 Mbit/s
95th percentile per-packet one-way delay: 2.743 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 73.17 Mbit/s
95th percentile per-packet one-way delay: 2.743 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-MusesT — Data Link

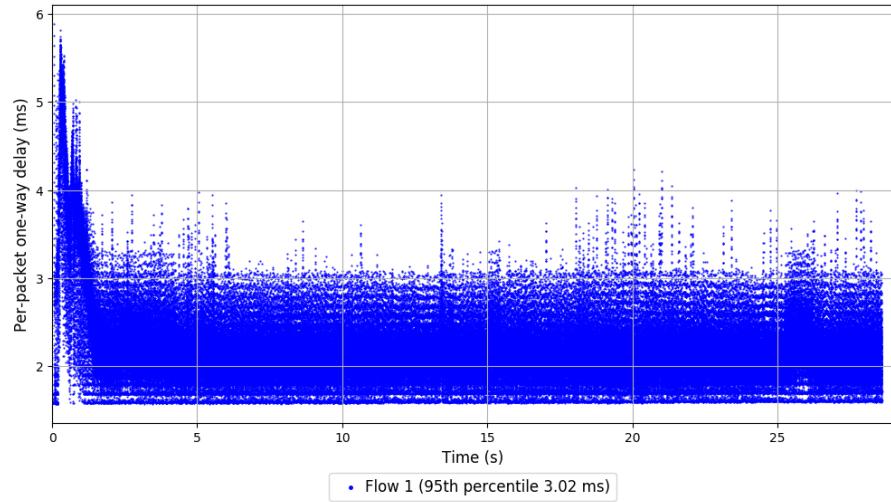
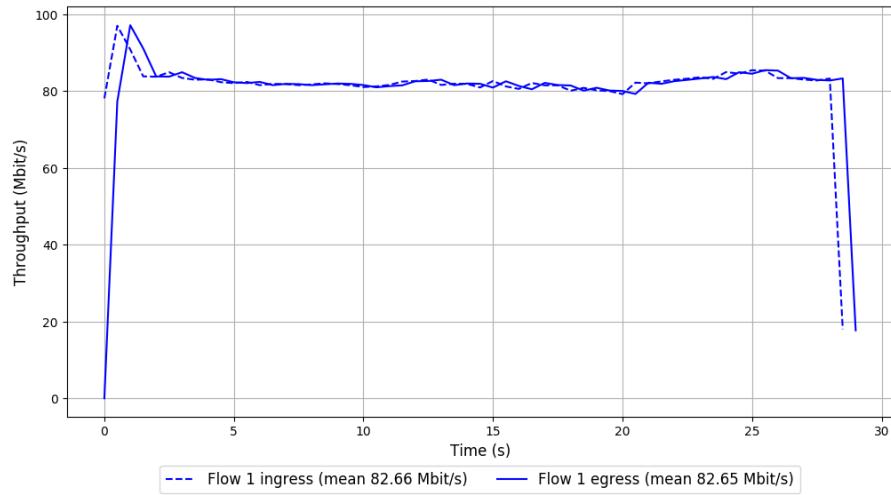


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 21:33:05
End at: 2019-01-21 21:33:35
Local clock offset: -5.712 ms
Remote clock offset: 0.674 ms

# Below is generated by plot.py at 2019-01-21 23:09:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.65 Mbit/s
95th percentile per-packet one-way delay: 3.021 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 82.65 Mbit/s
95th percentile per-packet one-way delay: 3.021 ms
Loss rate: 0.02%
```

Run 2: Report of Indigo-MusesT — Data Link

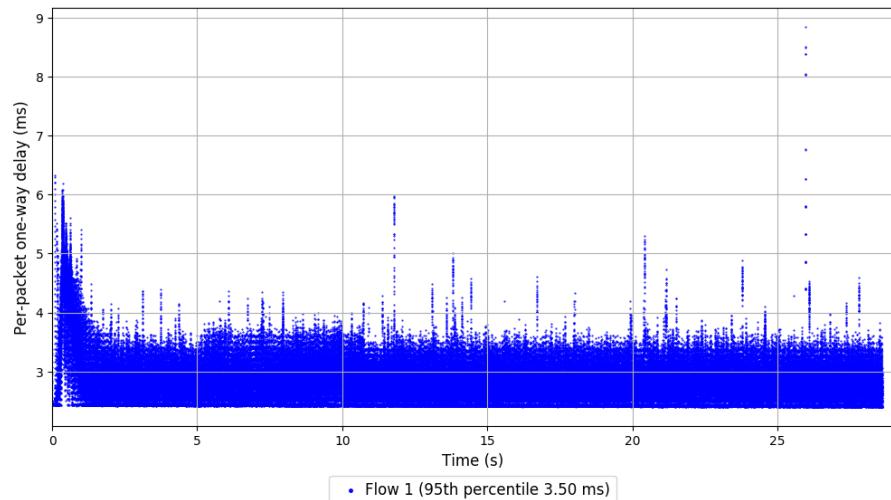
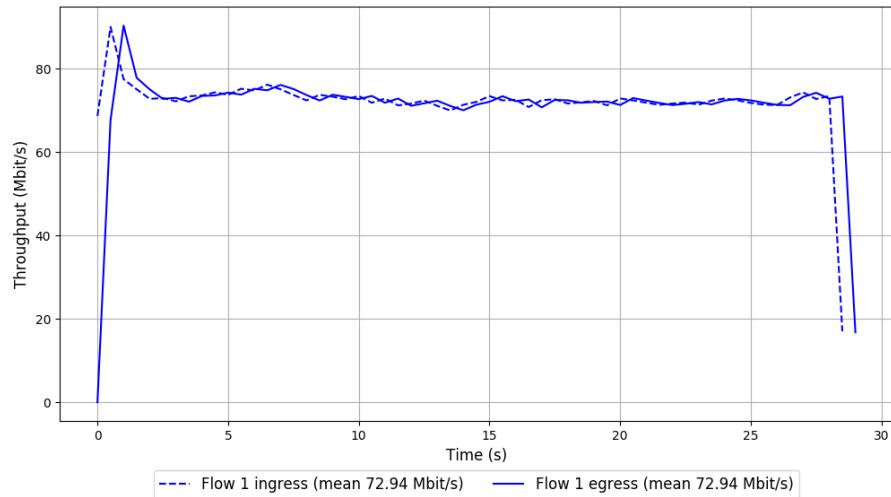


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 21:56:47
End at: 2019-01-21 21:57:17
Local clock offset: -3.792 ms
Remote clock offset: 0.749 ms

# Below is generated by plot.py at 2019-01-21 23:09:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.94 Mbit/s
95th percentile per-packet one-way delay: 3.495 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 72.94 Mbit/s
95th percentile per-packet one-way delay: 3.495 ms
Loss rate: 0.02%
```

Run 3: Report of Indigo-MusesT — Data Link

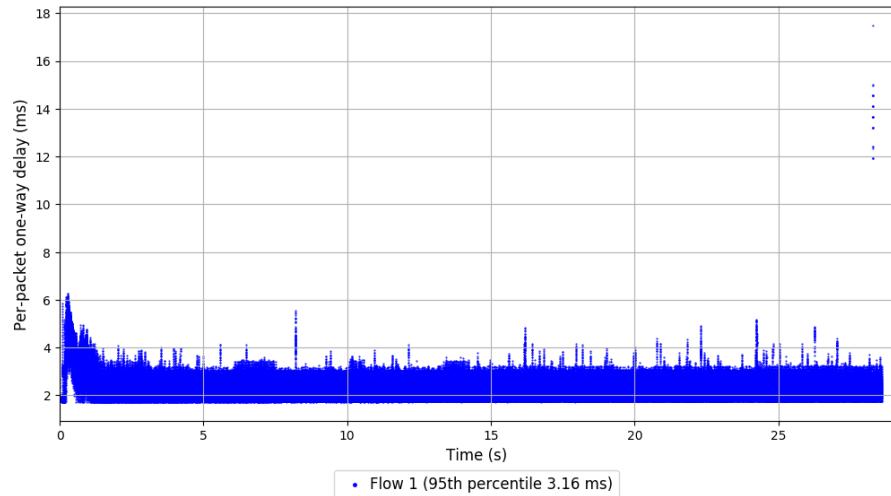
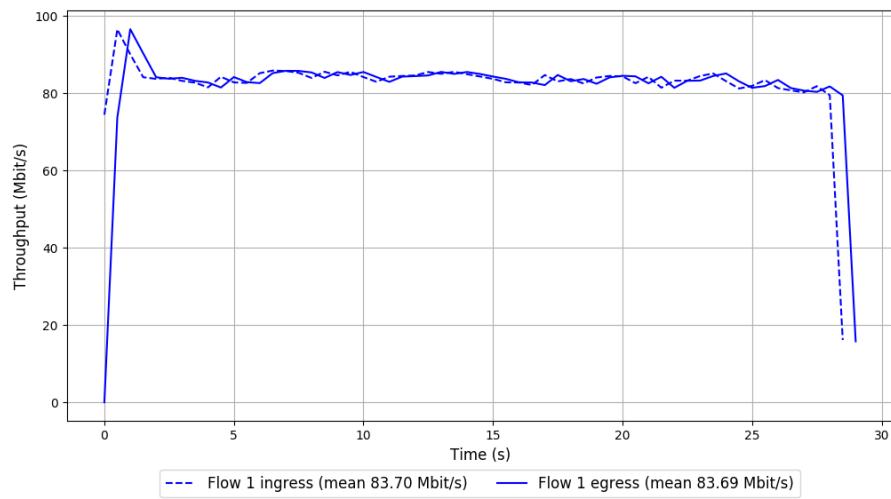


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 22:20:28
End at: 2019-01-21 22:20:58
Local clock offset: -4.448 ms
Remote clock offset: 1.029 ms

# Below is generated by plot.py at 2019-01-21 23:09:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.69 Mbit/s
95th percentile per-packet one-way delay: 3.158 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 83.69 Mbit/s
95th percentile per-packet one-way delay: 3.158 ms
Loss rate: 0.02%
```

Run 4: Report of Indigo-MusesT — Data Link

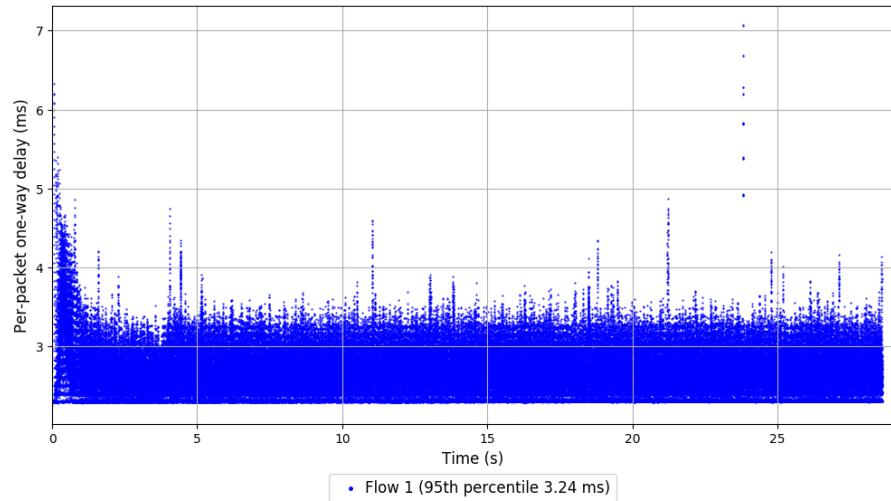
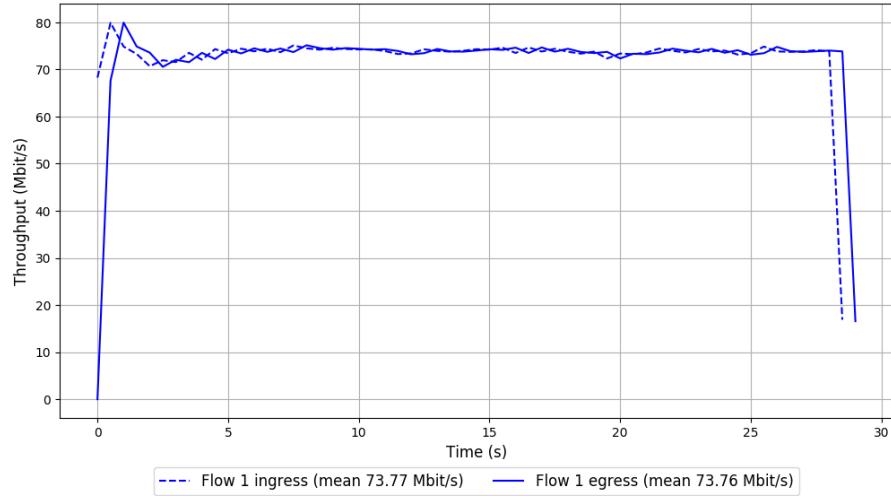


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 22:44:12
End at: 2019-01-21 22:44:42
Local clock offset: -4.62 ms
Remote clock offset: 1.064 ms

# Below is generated by plot.py at 2019-01-21 23:09:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.76 Mbit/s
95th percentile per-packet one-way delay: 3.243 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 73.76 Mbit/s
95th percentile per-packet one-way delay: 3.243 ms
Loss rate: 0.02%
```

Run 5: Report of Indigo-MusesT — Data Link

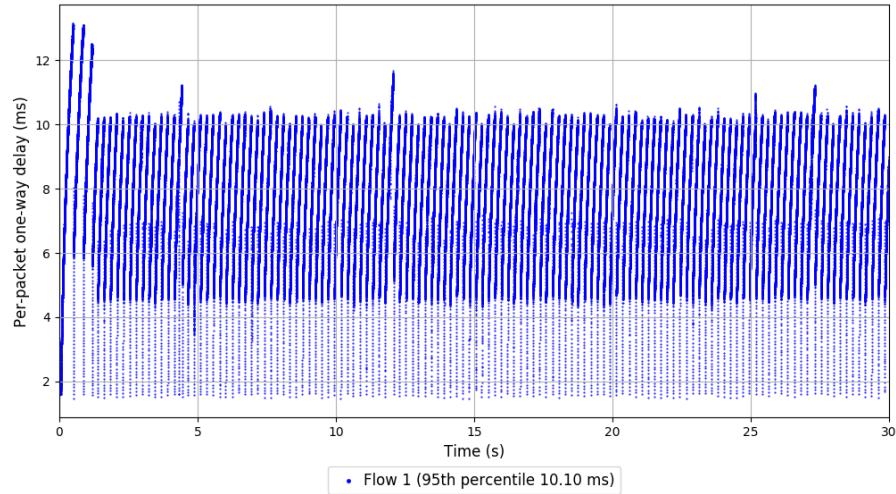
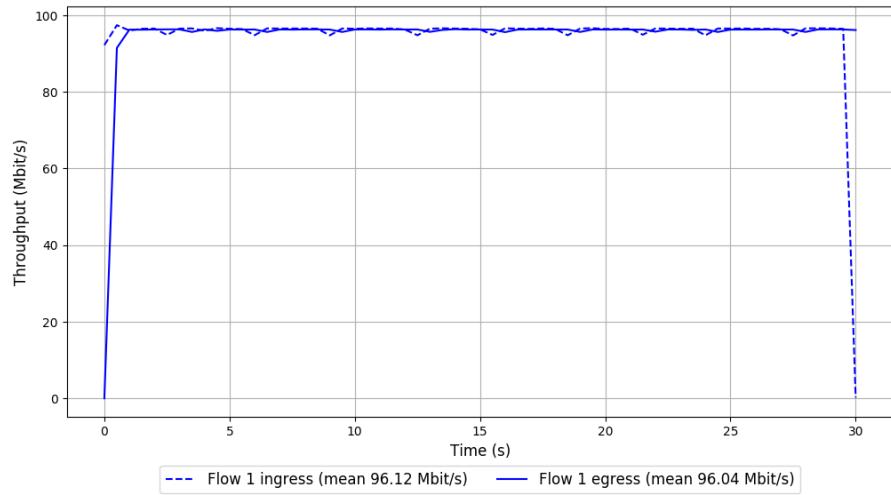


Run 1: Statistics of LEDBAT

```
Start at: 2019-01-21 21:08:15
End at: 2019-01-21 21:08:45
Local clock offset: -5.315 ms
Remote clock offset: 0.439 ms

# Below is generated by plot.py at 2019-01-21 23:09:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.04 Mbit/s
95th percentile per-packet one-way delay: 10.100 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.04 Mbit/s
95th percentile per-packet one-way delay: 10.100 ms
Loss rate: 0.09%
```

Run 1: Report of LEDBAT — Data Link

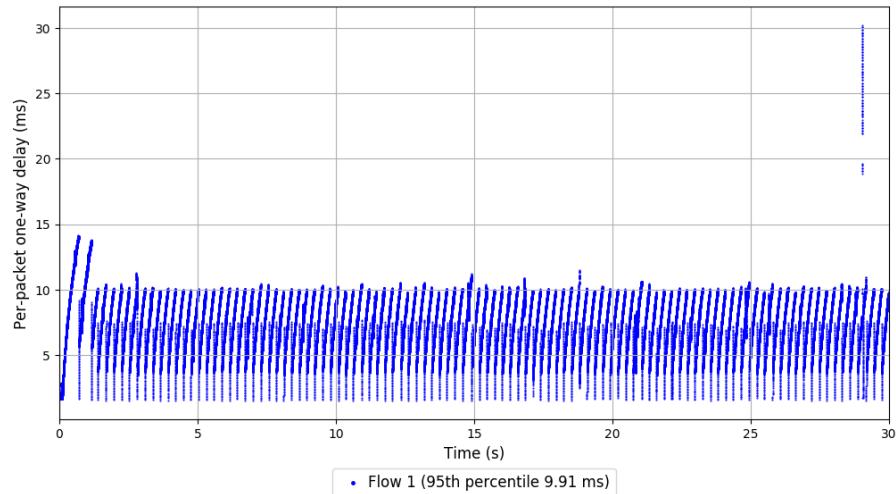
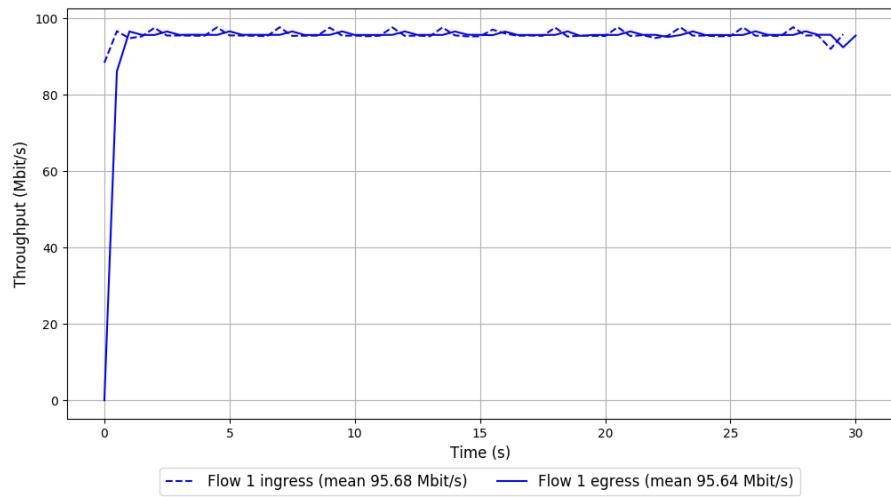


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-21 21:31:55
End at: 2019-01-21 21:32:25
Local clock offset: -5.627 ms
Remote clock offset: 0.659 ms

# Below is generated by plot.py at 2019-01-21 23:09:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.64 Mbit/s
95th percentile per-packet one-way delay: 9.908 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 95.64 Mbit/s
95th percentile per-packet one-way delay: 9.908 ms
Loss rate: 0.07%
```

Run 2: Report of LEDBAT — Data Link

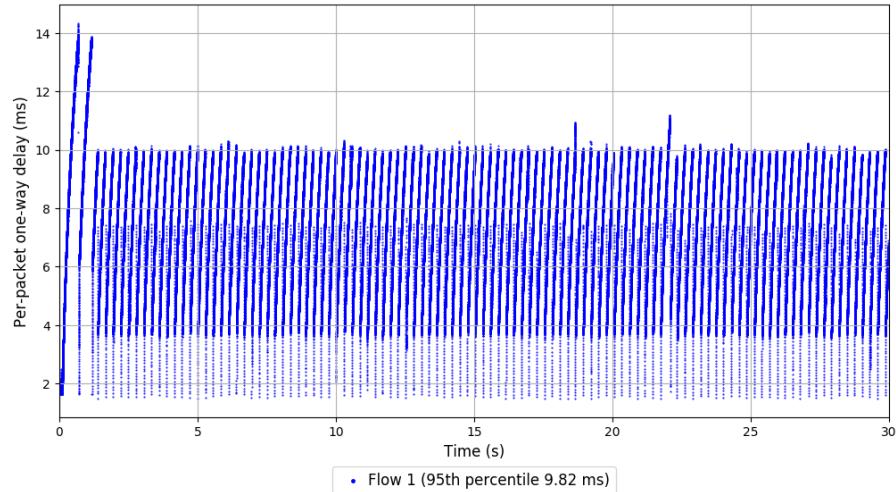
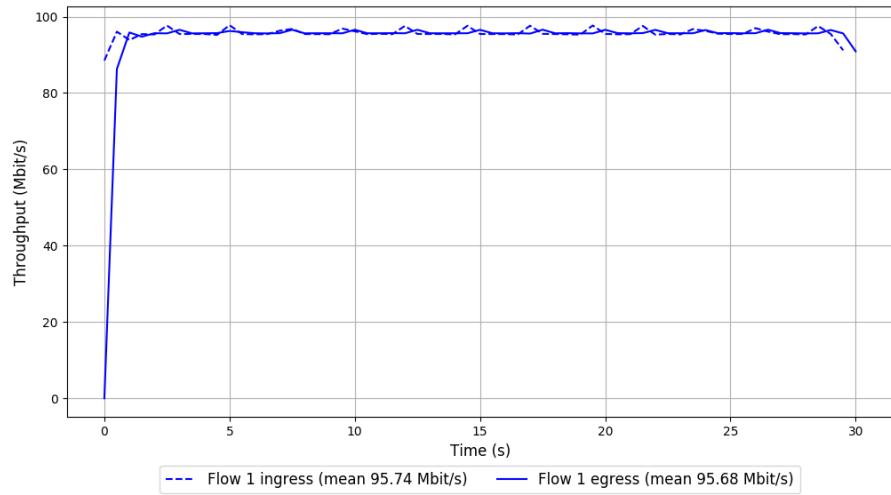


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-21 21:55:37
End at: 2019-01-21 21:56:07
Local clock offset: -4.571 ms
Remote clock offset: 0.85 ms

# Below is generated by plot.py at 2019-01-21 23:09:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.68 Mbit/s
95th percentile per-packet one-way delay: 9.816 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 95.68 Mbit/s
95th percentile per-packet one-way delay: 9.816 ms
Loss rate: 0.08%
```

Run 3: Report of LEDBAT — Data Link

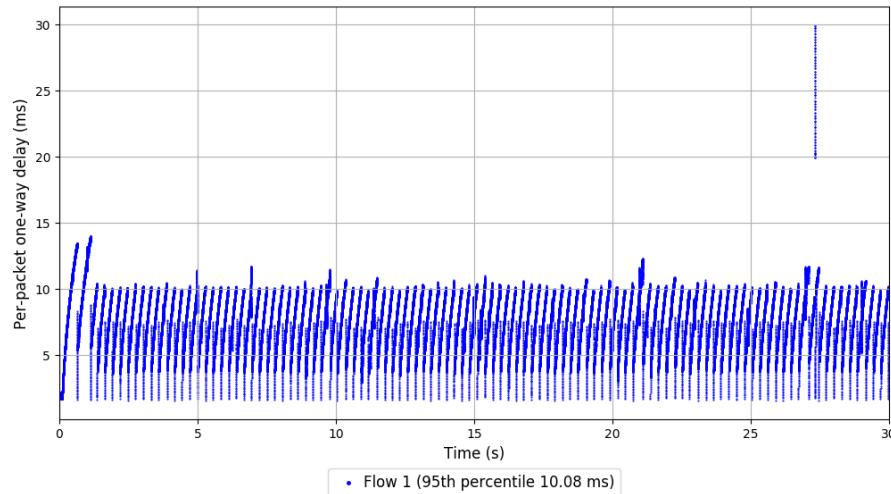
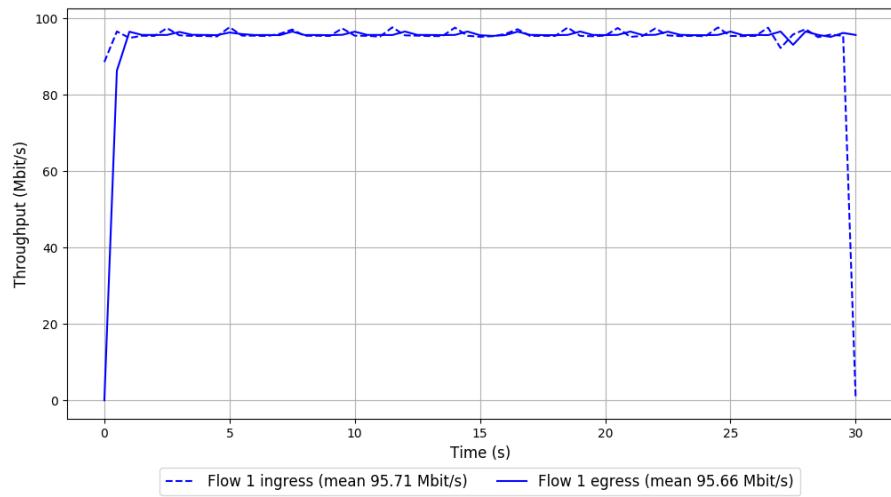


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-21 22:19:19
End at: 2019-01-21 22:19:49
Local clock offset: -4.347 ms
Remote clock offset: 1.042 ms

# Below is generated by plot.py at 2019-01-21 23:09:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.66 Mbit/s
95th percentile per-packet one-way delay: 10.077 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 95.66 Mbit/s
95th percentile per-packet one-way delay: 10.077 ms
Loss rate: 0.07%
```

Run 4: Report of LEDBAT — Data Link

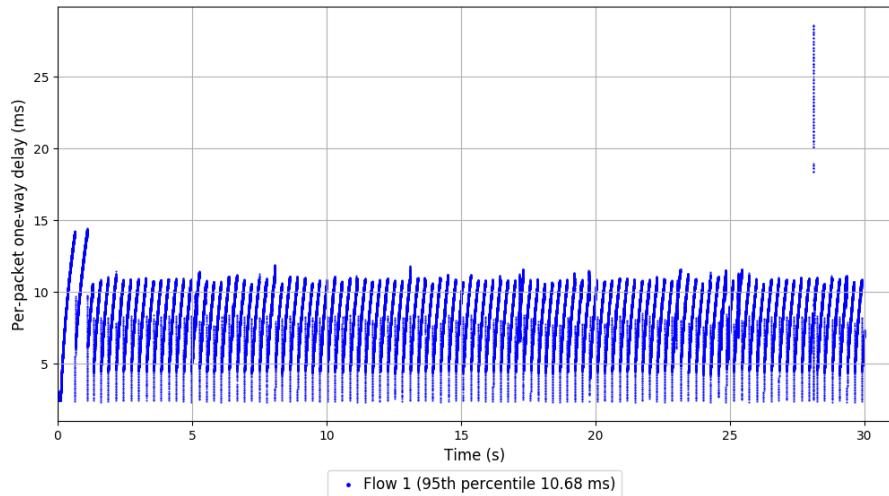
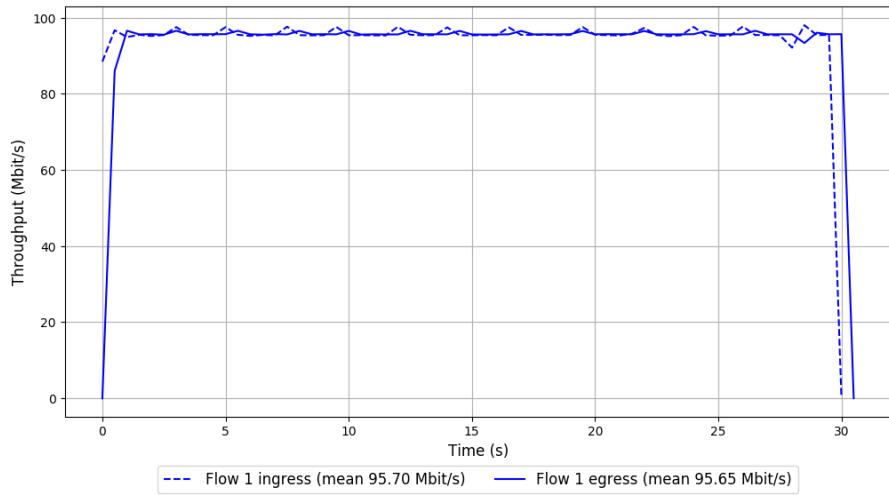


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-21 22:43:03
End at: 2019-01-21 22:43:33
Local clock offset: -4.54 ms
Remote clock offset: 0.97 ms

# Below is generated by plot.py at 2019-01-21 23:10:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 10.680 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 10.680 ms
Loss rate: 0.08%
```

Run 5: Report of LEDBAT — Data Link

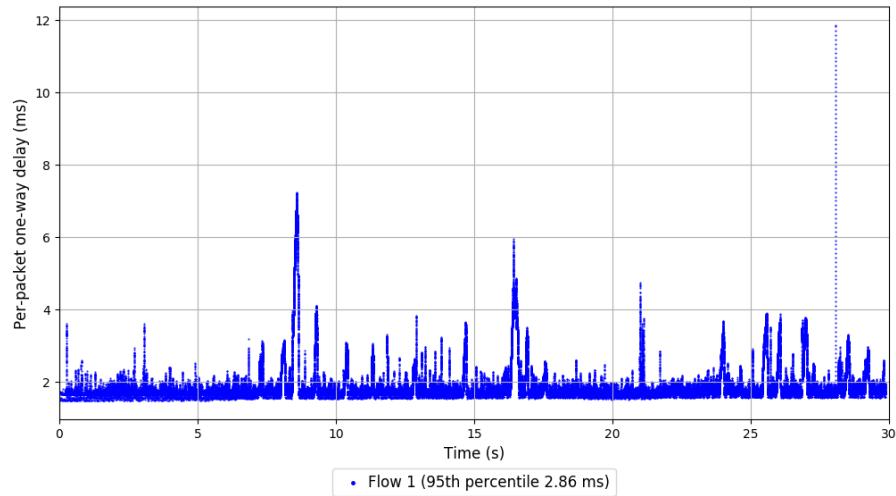
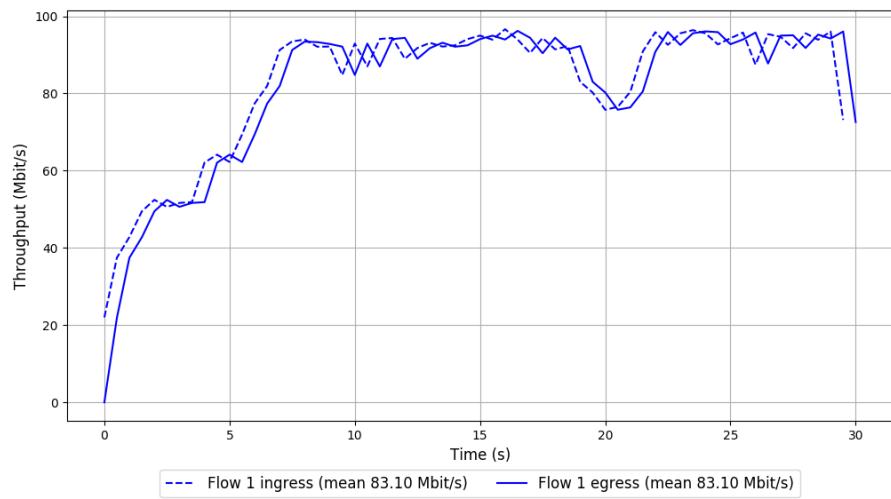


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-01-21 21:04:53
End at: 2019-01-21 21:05:23
Local clock offset: -5.156 ms
Remote clock offset: 0.367 ms

# Below is generated by plot.py at 2019-01-21 23:10:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.10 Mbit/s
95th percentile per-packet one-way delay: 2.864 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 83.10 Mbit/s
95th percentile per-packet one-way delay: 2.864 ms
Loss rate: 0.02%
```

Run 1: Report of PCC-Allegro — Data Link

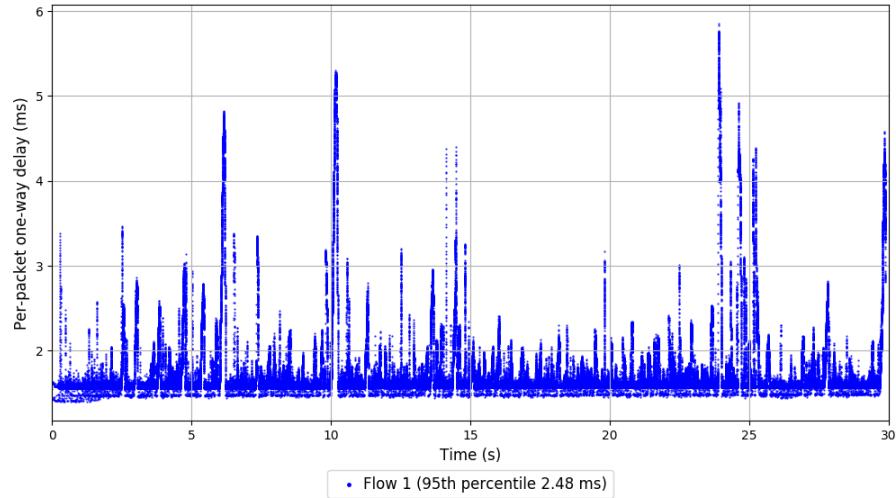
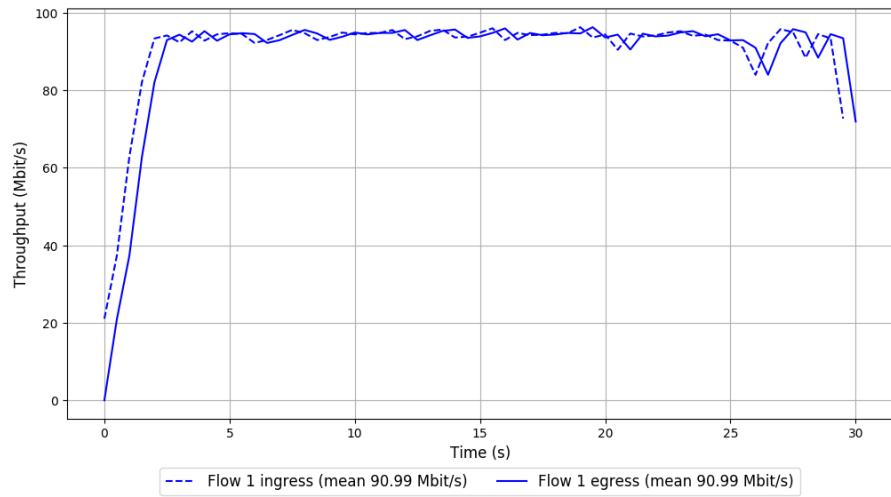


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-21 21:28:33
End at: 2019-01-21 21:29:03
Local clock offset: -5.647 ms
Remote clock offset: 0.671 ms

# Below is generated by plot.py at 2019-01-21 23:10:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.99 Mbit/s
95th percentile per-packet one-way delay: 2.475 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 90.99 Mbit/s
95th percentile per-packet one-way delay: 2.475 ms
Loss rate: 0.02%
```

Run 2: Report of PCC-Allegro — Data Link

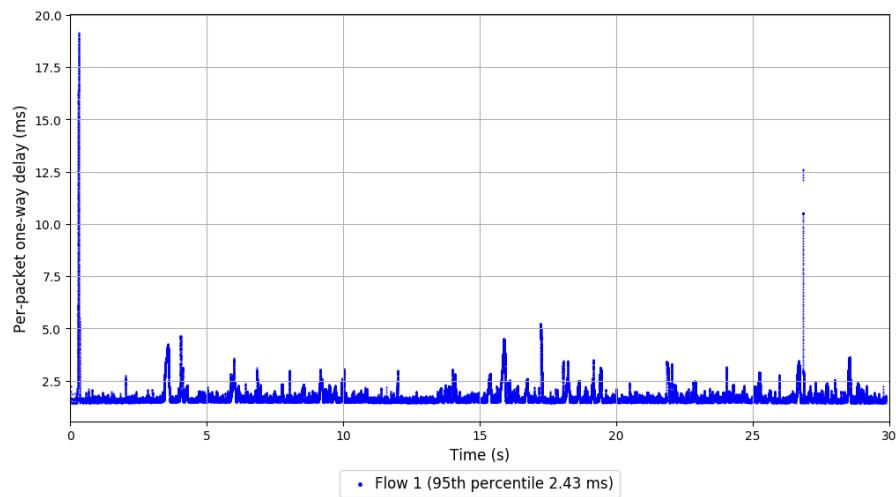
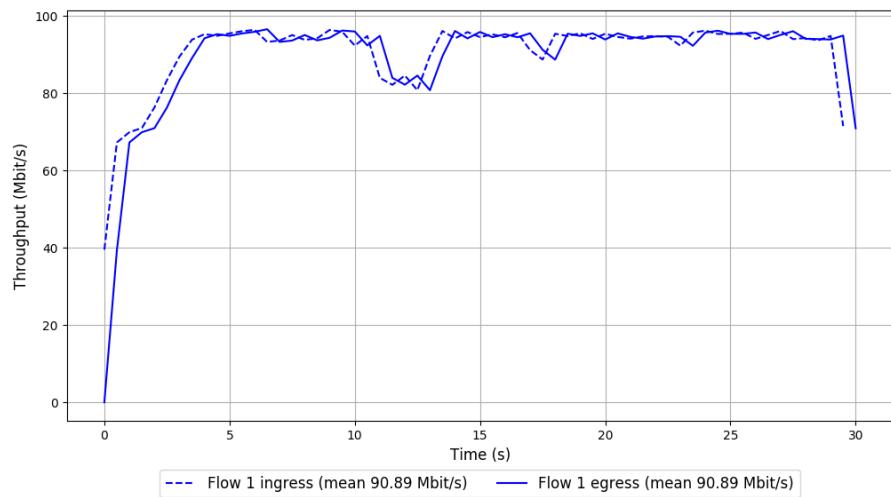


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-21 21:52:16
End at: 2019-01-21 21:52:46
Local clock offset: -4.898 ms
Remote clock offset: 0.827 ms

# Below is generated by plot.py at 2019-01-21 23:10:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.89 Mbit/s
95th percentile per-packet one-way delay: 2.429 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 90.89 Mbit/s
95th percentile per-packet one-way delay: 2.429 ms
Loss rate: 0.02%
```

Run 3: Report of PCC-Allegro — Data Link

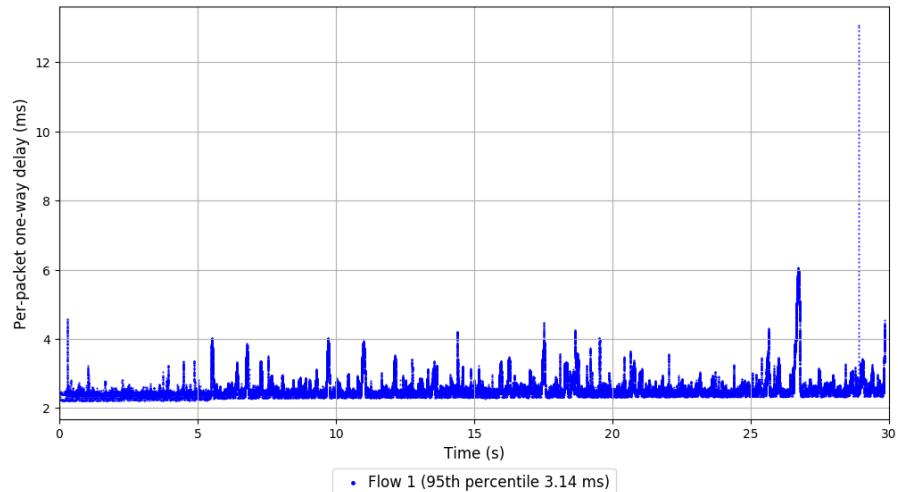
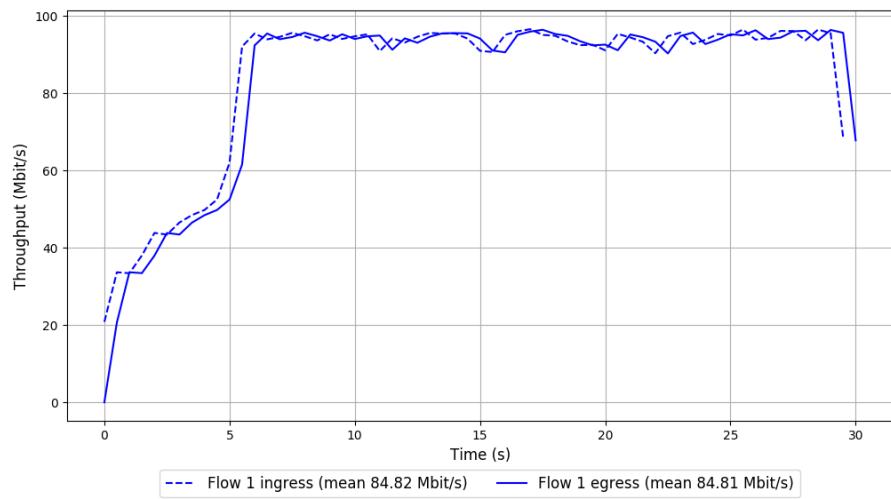


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-21 22:15:57
End at: 2019-01-21 22:16:27
Local clock offset: -3.28 ms
Remote clock offset: 1.102 ms

# Below is generated by plot.py at 2019-01-21 23:10:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.81 Mbit/s
95th percentile per-packet one-way delay: 3.144 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 84.81 Mbit/s
95th percentile per-packet one-way delay: 3.144 ms
Loss rate: 0.02%
```

Run 4: Report of PCC-Allegro — Data Link

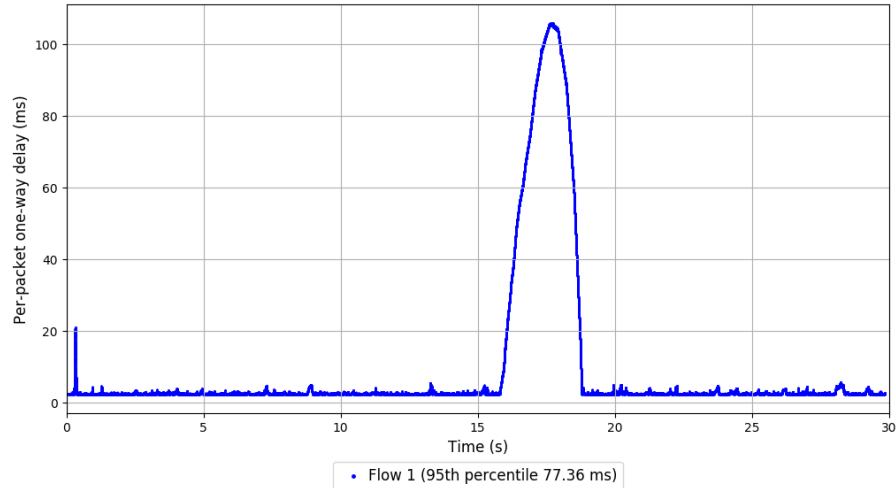
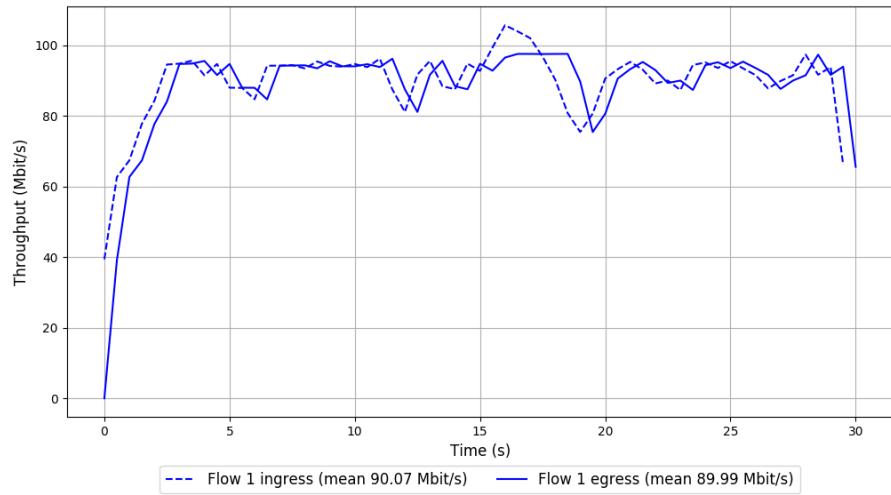


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-21 22:39:41
End at: 2019-01-21 22:40:11
Local clock offset: -4.477 ms
Remote clock offset: 1.059 ms

# Below is generated by plot.py at 2019-01-21 23:10:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.99 Mbit/s
95th percentile per-packet one-way delay: 77.355 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 89.99 Mbit/s
95th percentile per-packet one-way delay: 77.355 ms
Loss rate: 0.11%
```

Run 5: Report of PCC-Allegro — Data Link

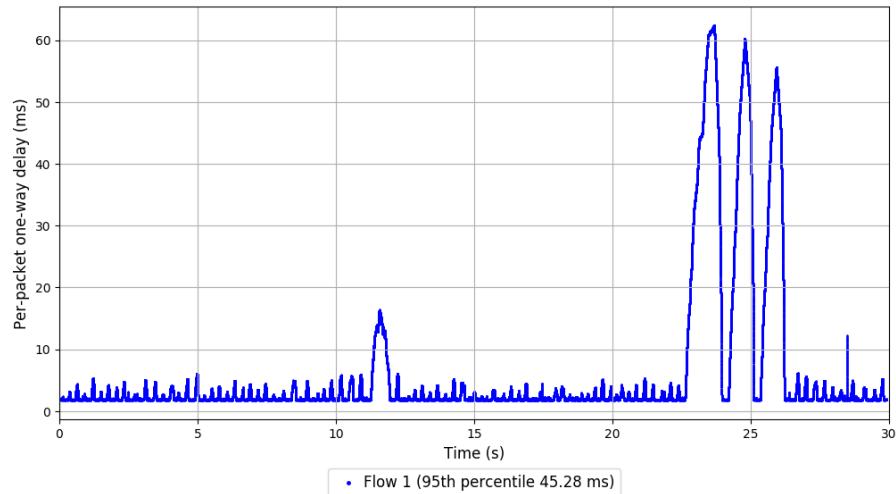
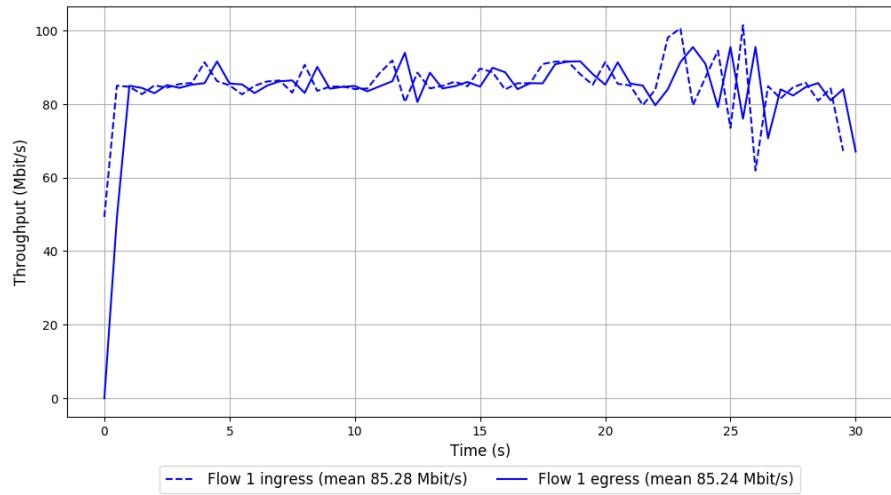


```
Run 1: Statistics of PCC-Expr

Start at: 2019-01-21 21:13:55
End at: 2019-01-21 21:14:25
Local clock offset: -5.557 ms
Remote clock offset: 0.348 ms

# Below is generated by plot.py at 2019-01-21 23:11:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.24 Mbit/s
95th percentile per-packet one-way delay: 45.277 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 85.24 Mbit/s
95th percentile per-packet one-way delay: 45.277 ms
Loss rate: 0.06%
```

Run 1: Report of PCC-Expr — Data Link

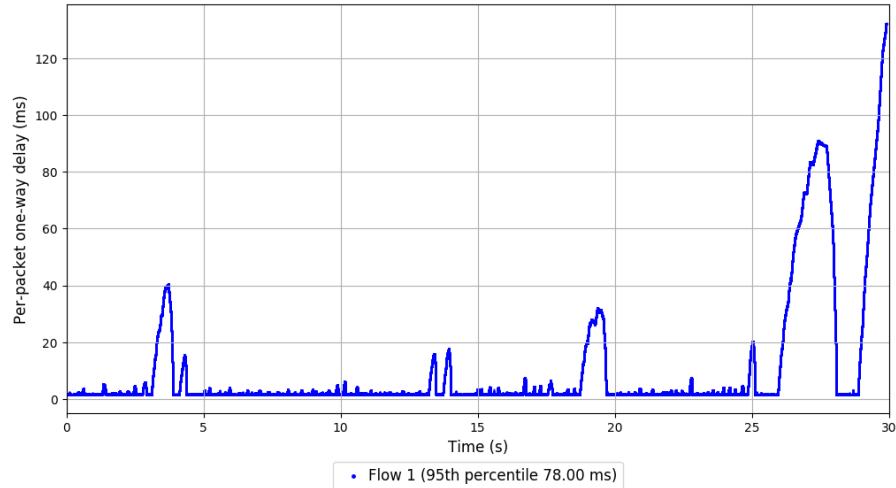
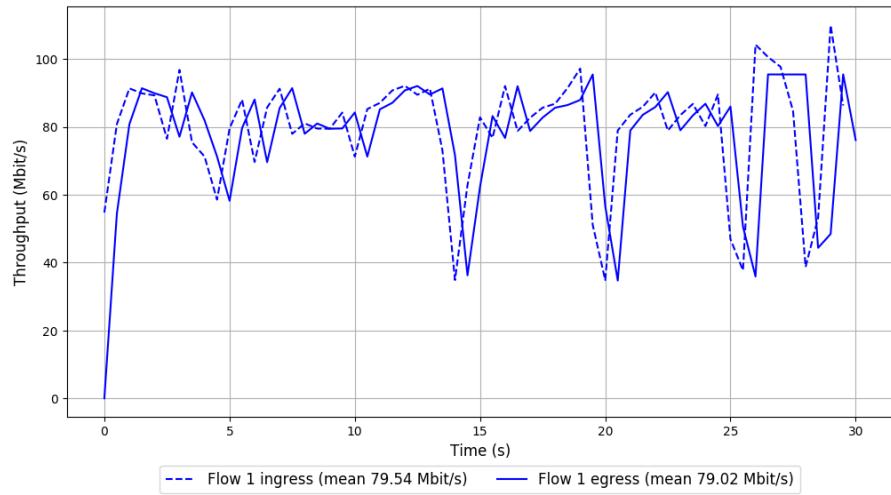


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-21 21:37:37
End at: 2019-01-21 21:38:07
Local clock offset: -5.795 ms
Remote clock offset: 0.709 ms

# Below is generated by plot.py at 2019-01-21 23:11:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.02 Mbit/s
95th percentile per-packet one-way delay: 78.003 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 79.02 Mbit/s
95th percentile per-packet one-way delay: 78.003 ms
Loss rate: 0.67%
```

Run 2: Report of PCC-Expr — Data Link

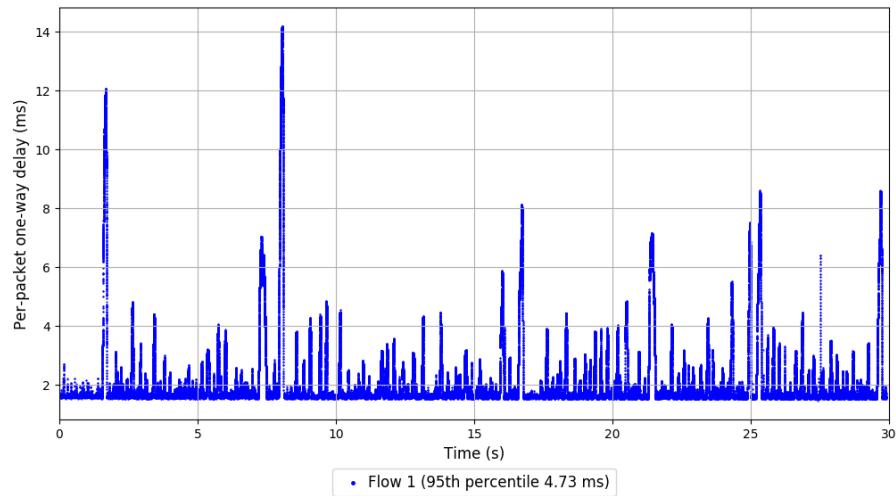
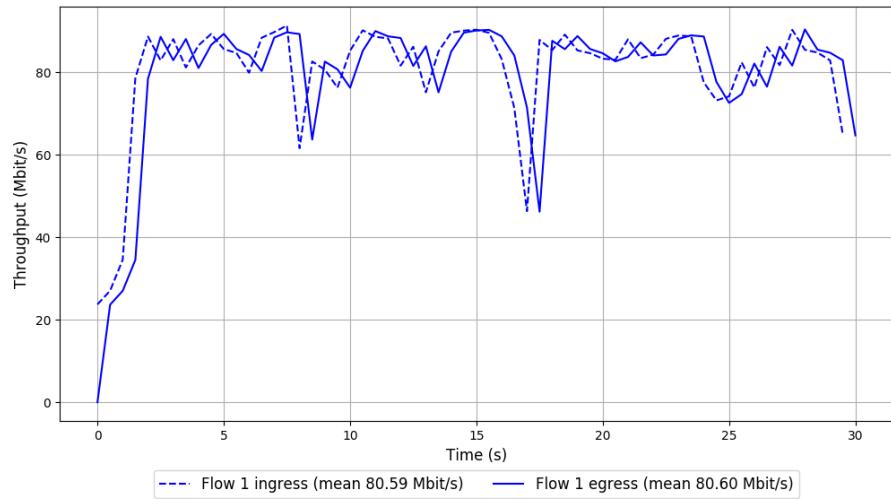


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-21 22:01:18
End at: 2019-01-21 22:01:48
Local clock offset: -4.267 ms
Remote clock offset: 0.966 ms

# Below is generated by plot.py at 2019-01-21 23:11:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.60 Mbit/s
95th percentile per-packet one-way delay: 4.728 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 80.60 Mbit/s
95th percentile per-packet one-way delay: 4.728 ms
Loss rate: 0.01%
```

Run 3: Report of PCC-Expr — Data Link

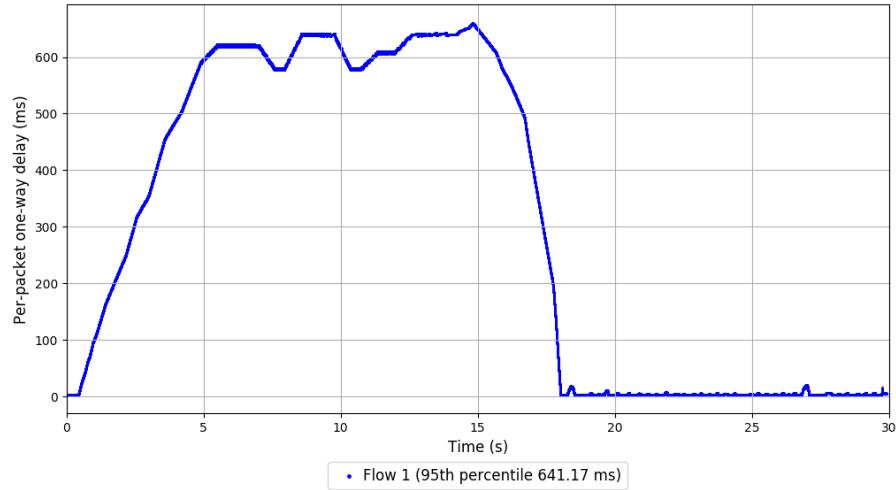
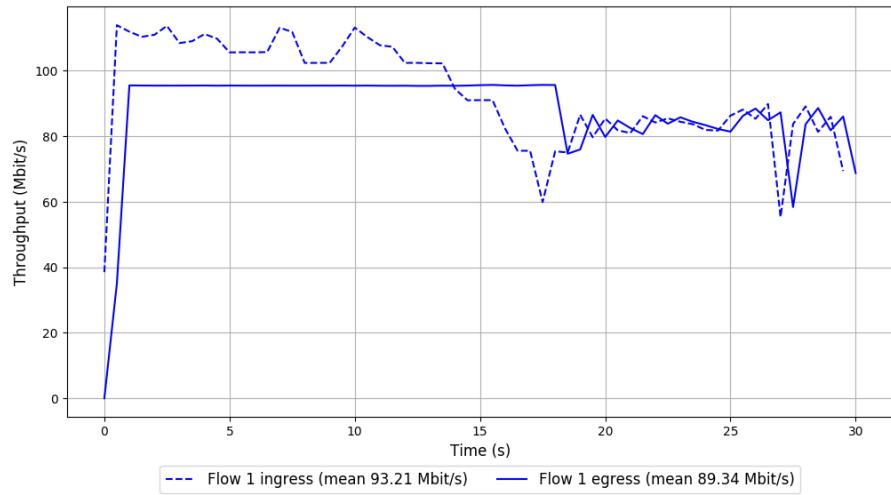


Run 4: Statistics of PCC-Expr

```
Start at: 2019-01-21 22:25:00
End at: 2019-01-21 22:25:30
Local clock offset: -3.993 ms
Remote clock offset: 0.968 ms

# Below is generated by plot.py at 2019-01-21 23:12:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.34 Mbit/s
95th percentile per-packet one-way delay: 641.169 ms
Loss rate: 4.17%
-- Flow 1:
Average throughput: 89.34 Mbit/s
95th percentile per-packet one-way delay: 641.169 ms
Loss rate: 4.17%
```

Run 4: Report of PCC-Expr — Data Link

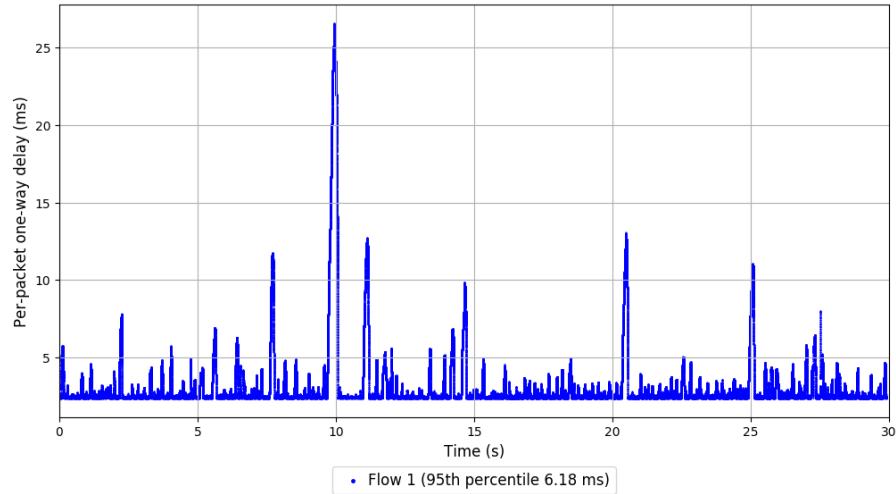
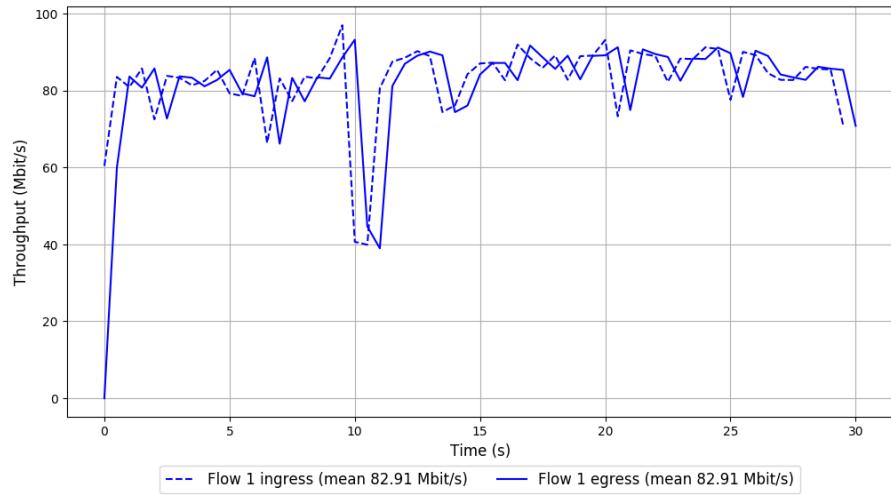


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-21 22:48:44
End at: 2019-01-21 22:49:14
Local clock offset: -4.641 ms
Remote clock offset: 1.044 ms

# Below is generated by plot.py at 2019-01-21 23:12:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.91 Mbit/s
95th percentile per-packet one-way delay: 6.177 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 82.91 Mbit/s
95th percentile per-packet one-way delay: 6.177 ms
Loss rate: 0.02%
```

Run 5: Report of PCC-Expr — Data Link

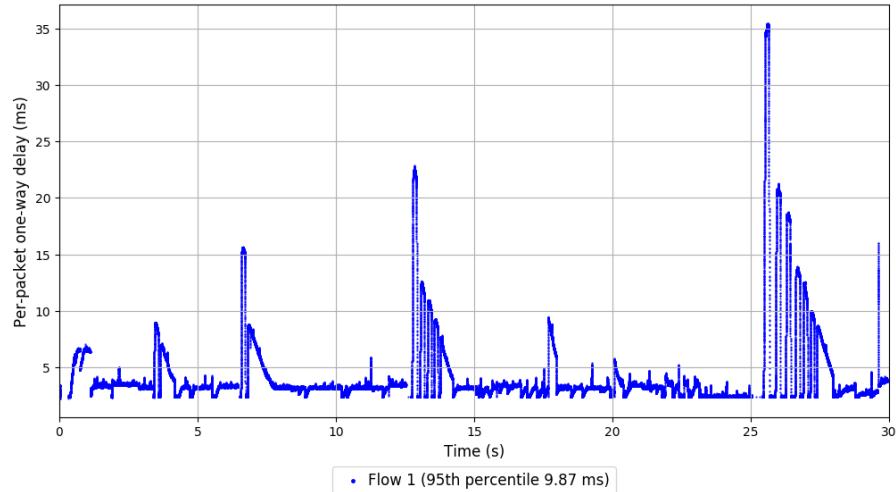
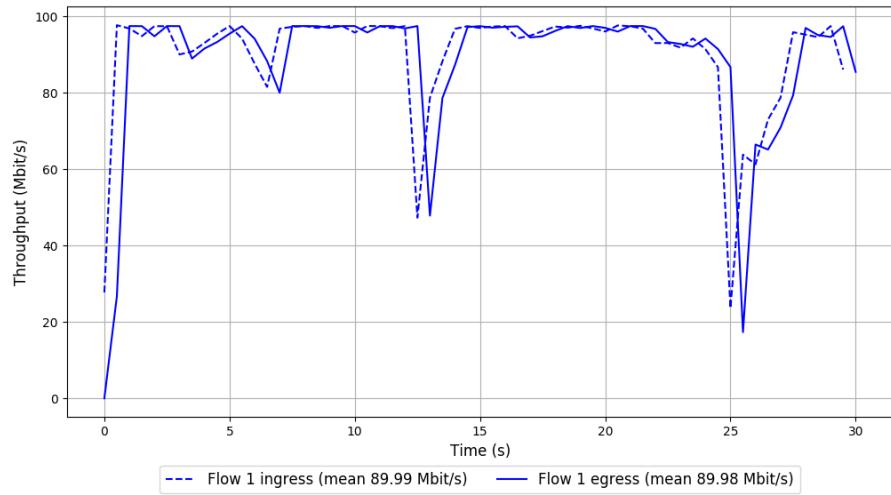


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-01-21 21:03:45
End at: 2019-01-21 21:04:15
Local clock offset: -4.349 ms
Remote clock offset: 0.384 ms

# Below is generated by plot.py at 2019-01-21 23:12:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.98 Mbit/s
95th percentile per-packet one-way delay: 9.872 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 89.98 Mbit/s
95th percentile per-packet one-way delay: 9.872 ms
Loss rate: 0.03%
```

Run 1: Report of QUIC Cubic — Data Link

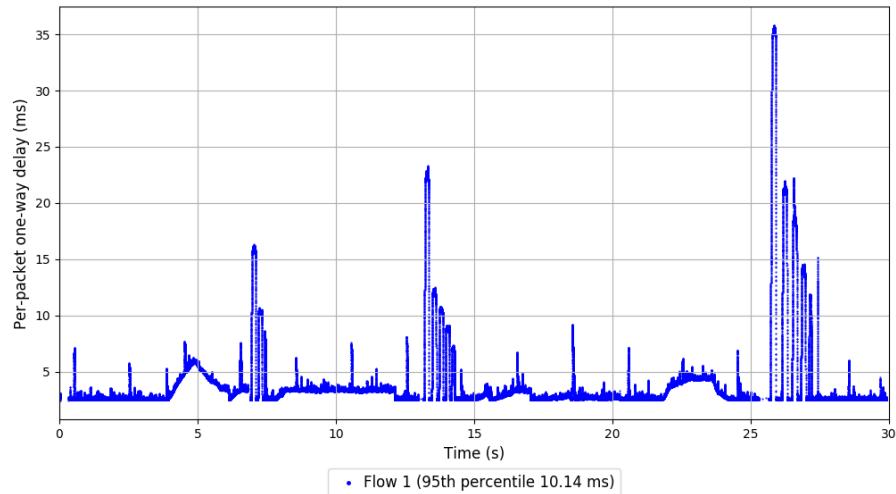
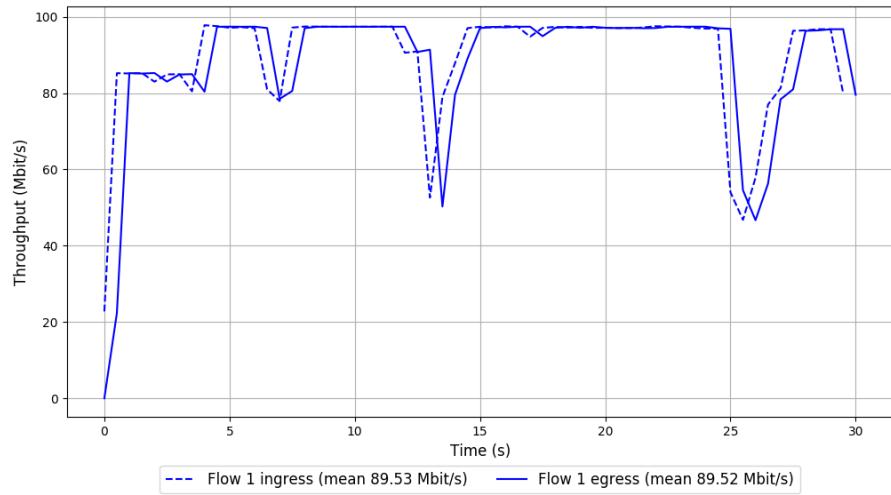


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-21 21:27:25
End at: 2019-01-21 21:27:55
Local clock offset: -4.789 ms
Remote clock offset: 0.518 ms

# Below is generated by plot.py at 2019-01-21 23:12:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.52 Mbit/s
95th percentile per-packet one-way delay: 10.144 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 89.52 Mbit/s
95th percentile per-packet one-way delay: 10.144 ms
Loss rate: 0.02%
```

Run 2: Report of QUIC Cubic — Data Link

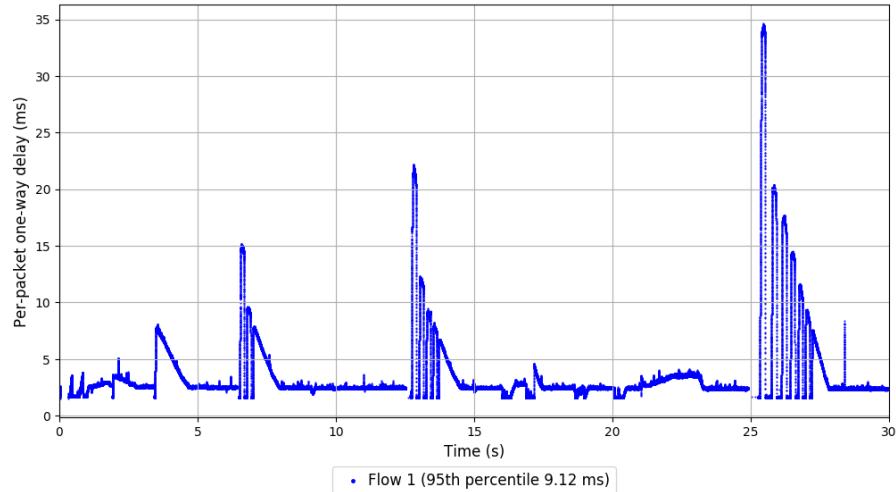
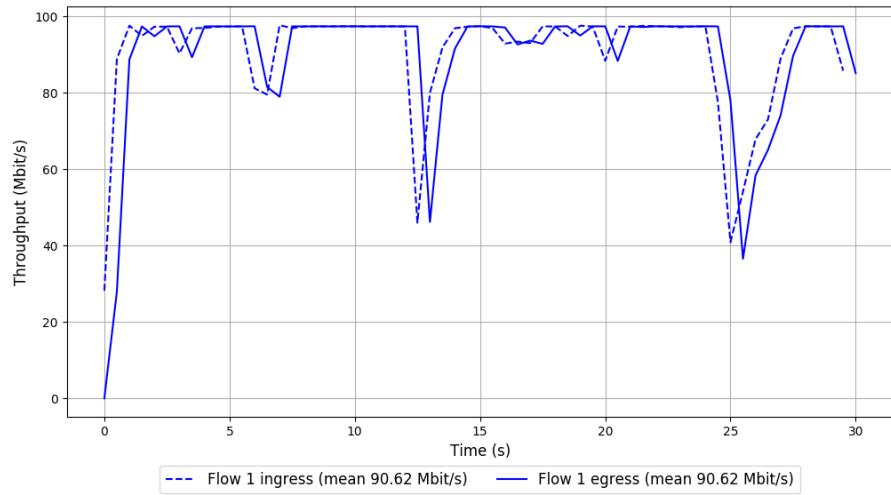


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-01-21 21:51:08
End at: 2019-01-21 21:51:38
Local clock offset: -5.054 ms
Remote clock offset: 0.759 ms

# Below is generated by plot.py at 2019-01-21 23:12:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.62 Mbit/s
95th percentile per-packet one-way delay: 9.118 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 90.62 Mbit/s
95th percentile per-packet one-way delay: 9.118 ms
Loss rate: 0.02%
```

Run 3: Report of QUIC Cubic — Data Link

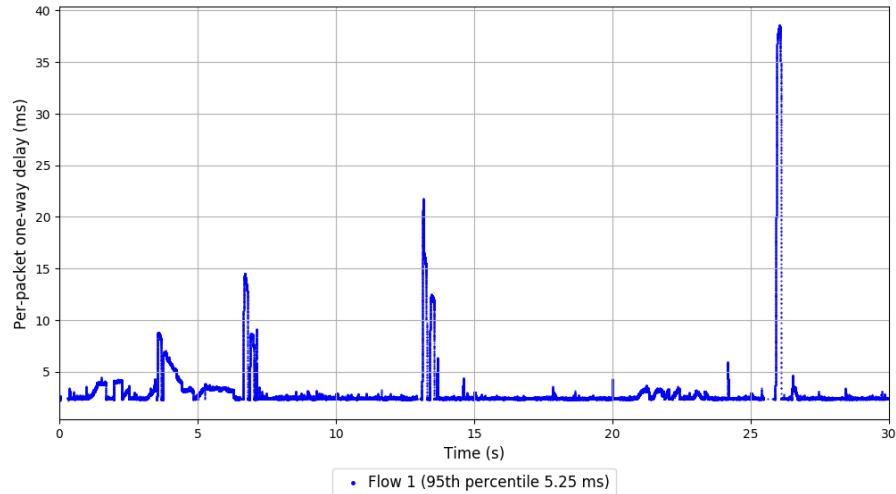
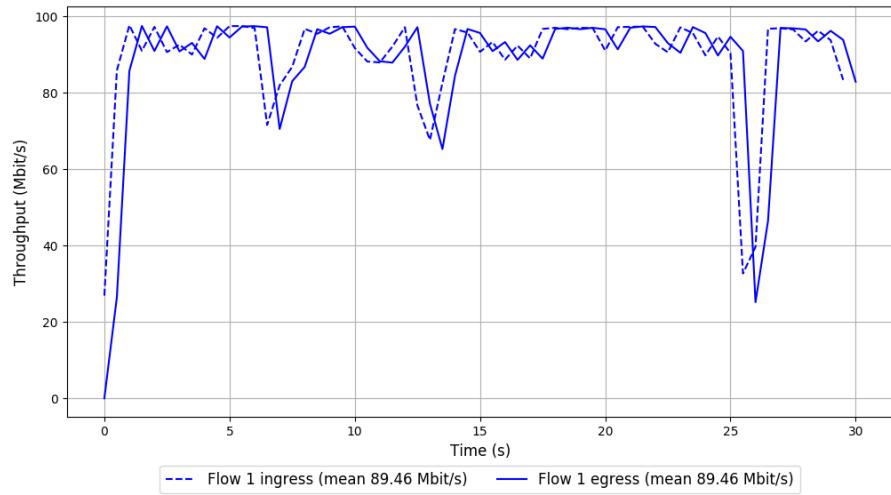


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-21 22:14:49
End at: 2019-01-21 22:15:19
Local clock offset: -3.334 ms
Remote clock offset: 1.034 ms

# Below is generated by plot.py at 2019-01-21 23:12:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.46 Mbit/s
95th percentile per-packet one-way delay: 5.245 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 89.46 Mbit/s
95th percentile per-packet one-way delay: 5.245 ms
Loss rate: 0.02%
```

Run 4: Report of QUIC Cubic — Data Link

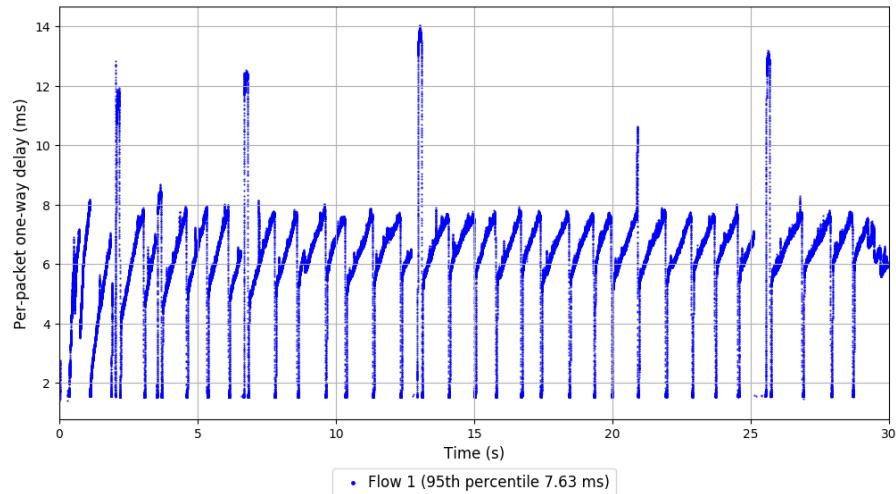
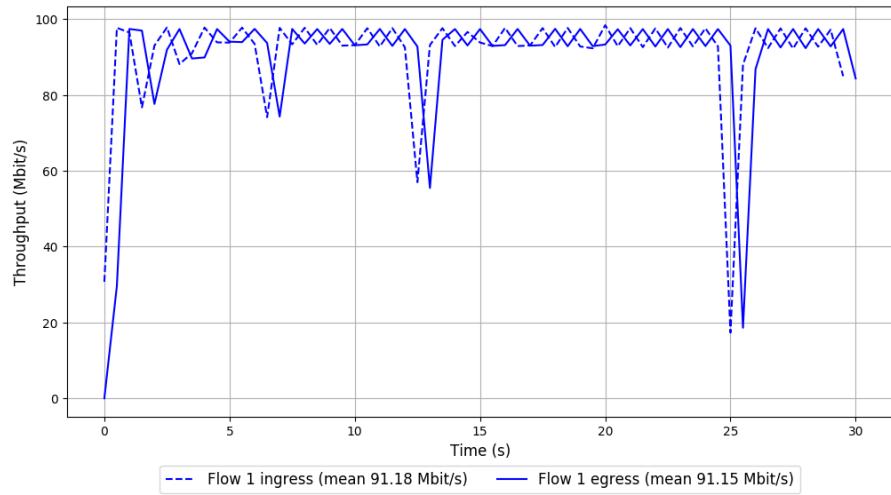


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-21 22:38:33
End at: 2019-01-21 22:39:03
Local clock offset: -5.281 ms
Remote clock offset: 1.061 ms

# Below is generated by plot.py at 2019-01-21 23:12:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.15 Mbit/s
95th percentile per-packet one-way delay: 7.631 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 91.15 Mbit/s
95th percentile per-packet one-way delay: 7.631 ms
Loss rate: 0.05%
```

Run 5: Report of QUIC Cubic — Data Link

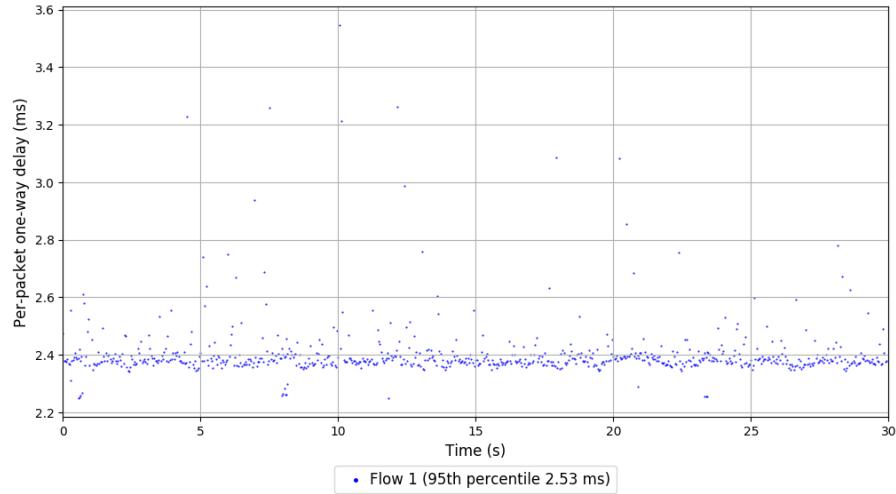
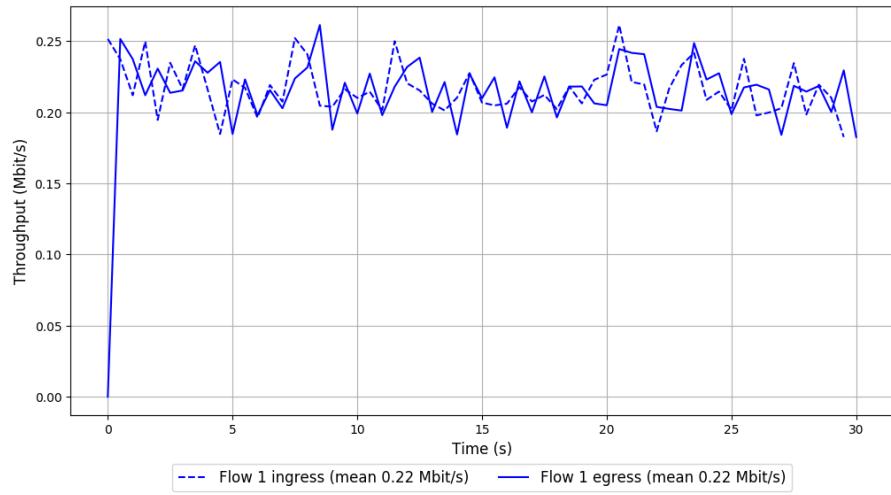


```
Run 1: Statistics of SCReAM

Start at: 2019-01-21 21:21:52
End at: 2019-01-21 21:22:22
Local clock offset: -4.768 ms
Remote clock offset: 0.611 ms

# Below is generated by plot.py at 2019-01-21 23:12:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.529 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.529 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

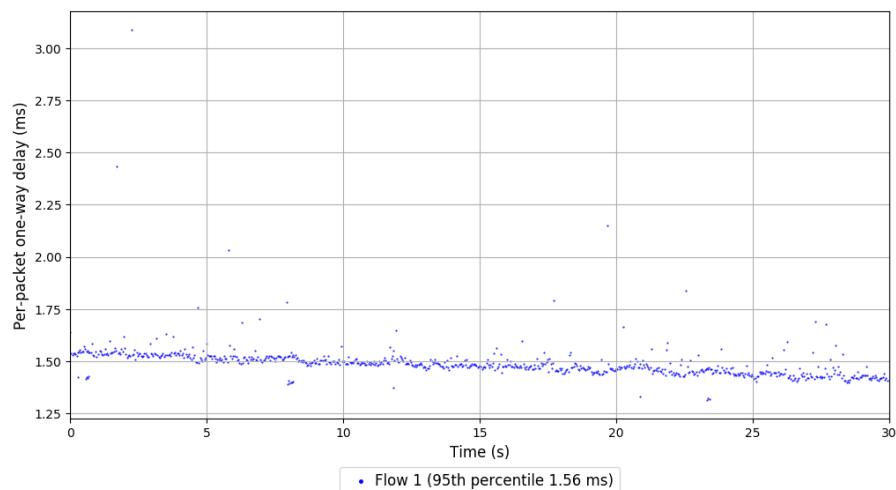
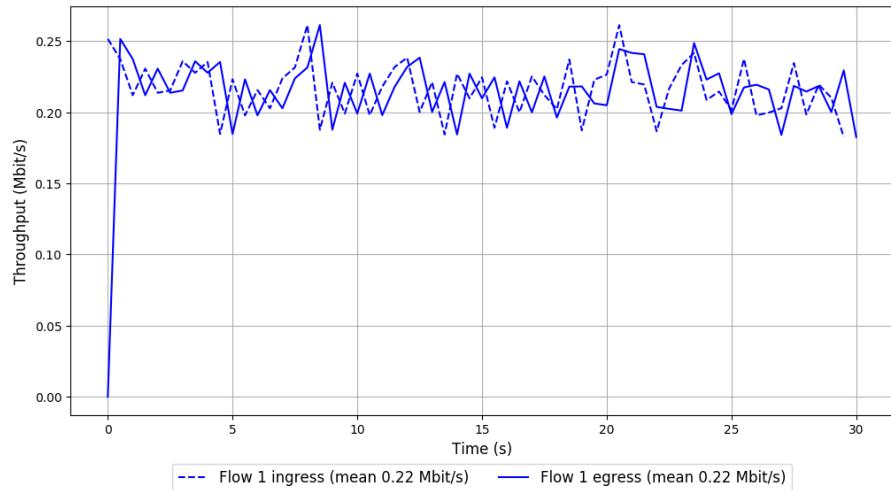


Run 2: Statistics of SCReAM

```
Start at: 2019-01-21 21:45:34
End at: 2019-01-21 21:46:04
Local clock offset: -6.012 ms
Remote clock offset: 0.841 ms

# Below is generated by plot.py at 2019-01-21 23:12:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.559 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.559 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

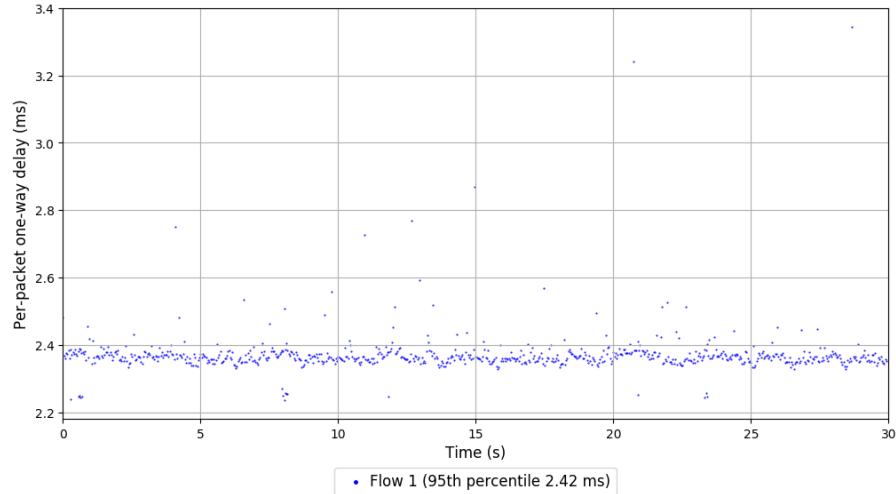
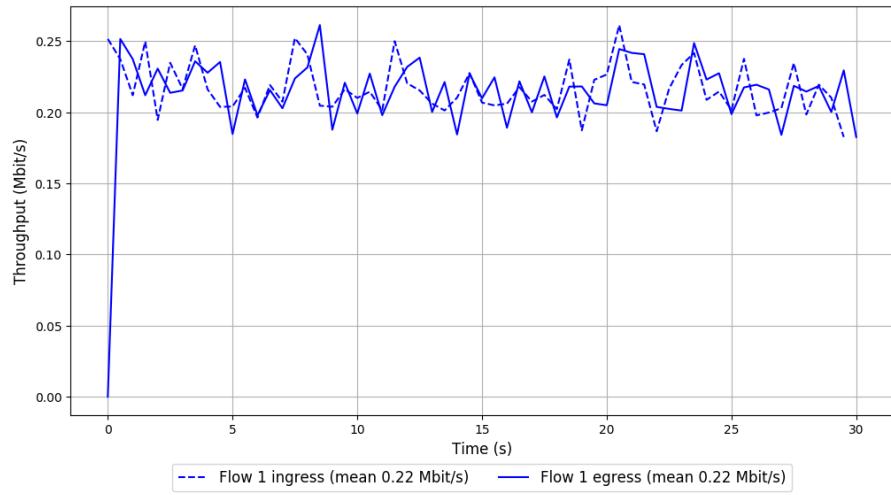


Run 3: Statistics of SCReAM

```
Start at: 2019-01-21 22:09:15
End at: 2019-01-21 22:09:45
Local clock offset: -3.307 ms
Remote clock offset: 1.046 ms

# Below is generated by plot.py at 2019-01-21 23:12:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.415 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.415 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

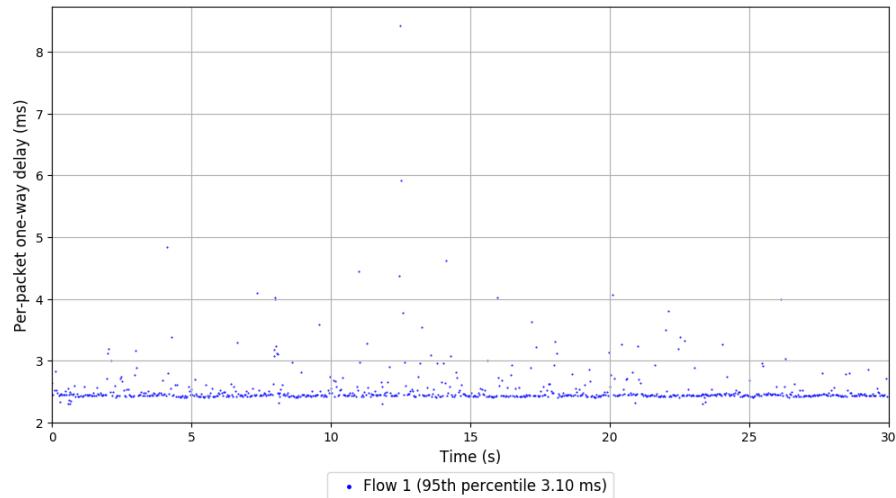
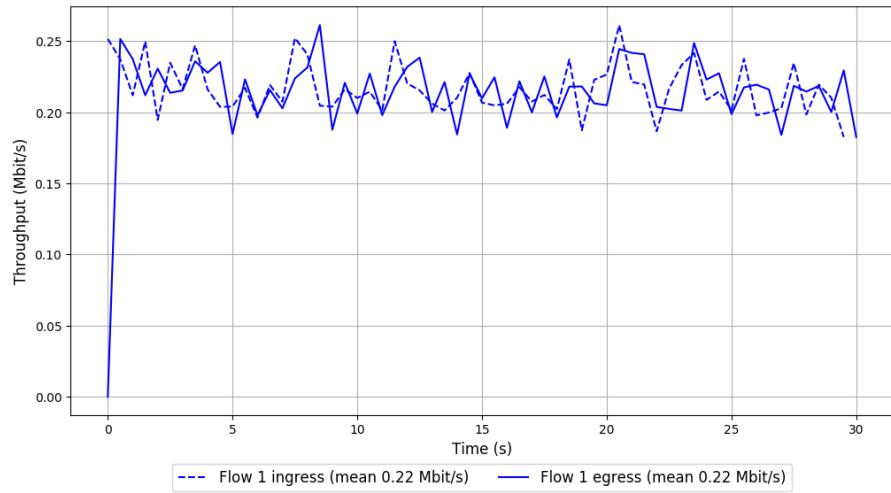


Run 4: Statistics of SCReAM

```
Start at: 2019-01-21 22:33:00
End at: 2019-01-21 22:33:30
Local clock offset: -4.312 ms
Remote clock offset: 1.026 ms

# Below is generated by plot.py at 2019-01-21 23:12:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.097 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.097 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

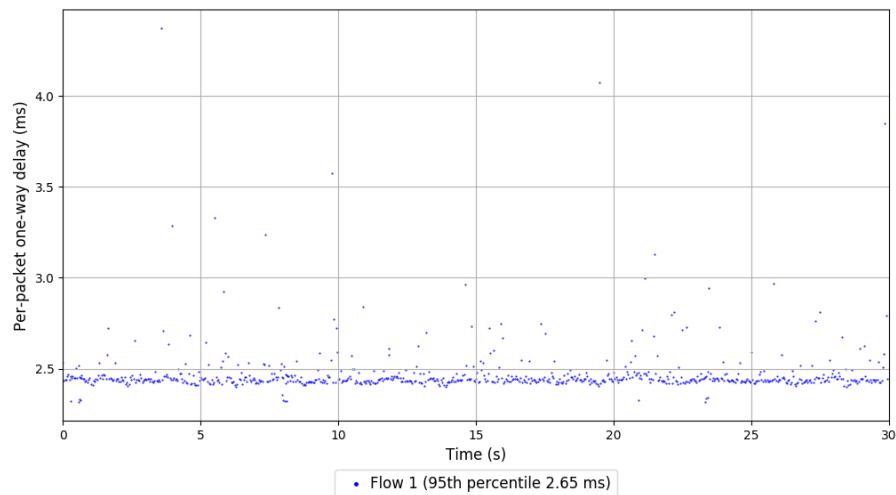
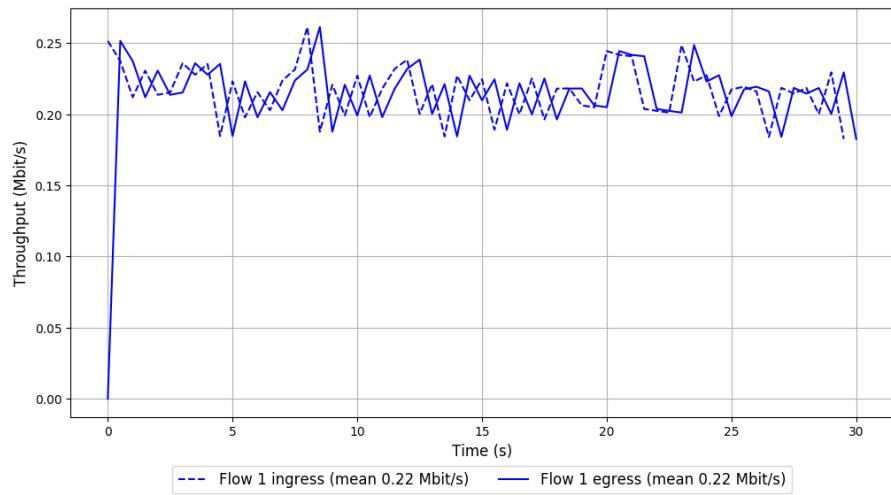


Run 5: Statistics of SCReAM

```
Start at: 2019-01-21 22:56:40
End at: 2019-01-21 22:57:10
Local clock offset: -4.795 ms
Remote clock offset: 0.931 ms

# Below is generated by plot.py at 2019-01-21 23:12:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.655 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.655 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

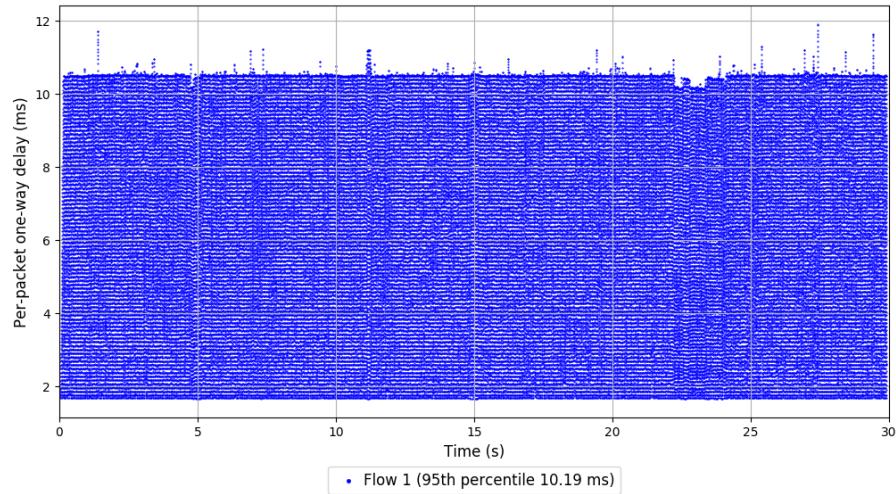
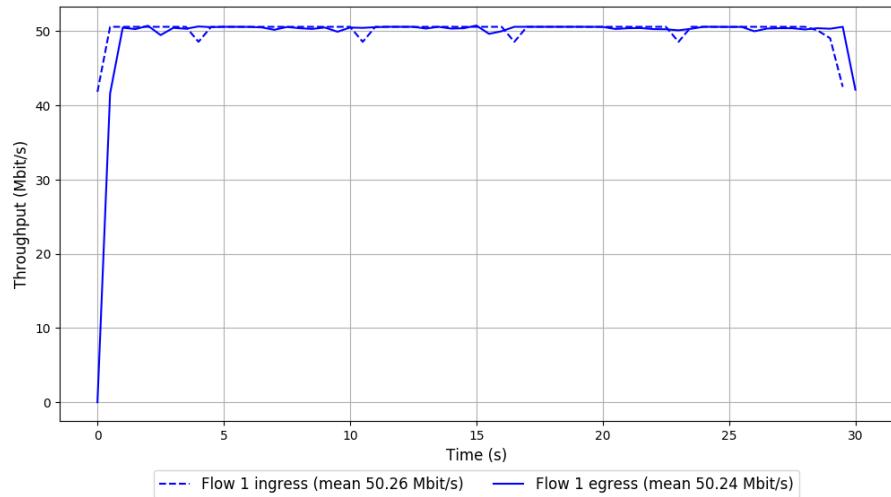


Run 1: Statistics of Sprout

```
Start at: 2019-01-21 21:18:29
End at: 2019-01-21 21:18:59
Local clock offset: -5.586 ms
Remote clock offset: 0.503 ms

# Below is generated by plot.py at 2019-01-21 23:12:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.24 Mbit/s
95th percentile per-packet one-way delay: 10.186 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 50.24 Mbit/s
95th percentile per-packet one-way delay: 10.186 ms
Loss rate: 0.01%
```

Run 1: Report of Sprout — Data Link

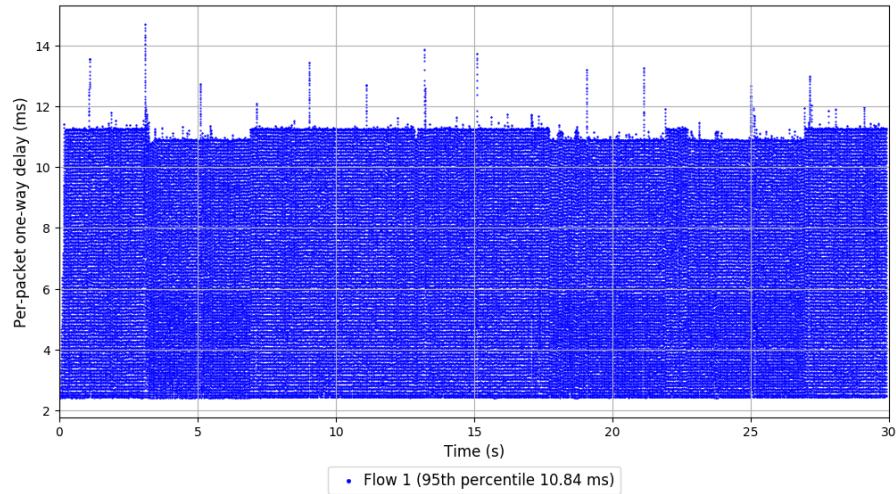
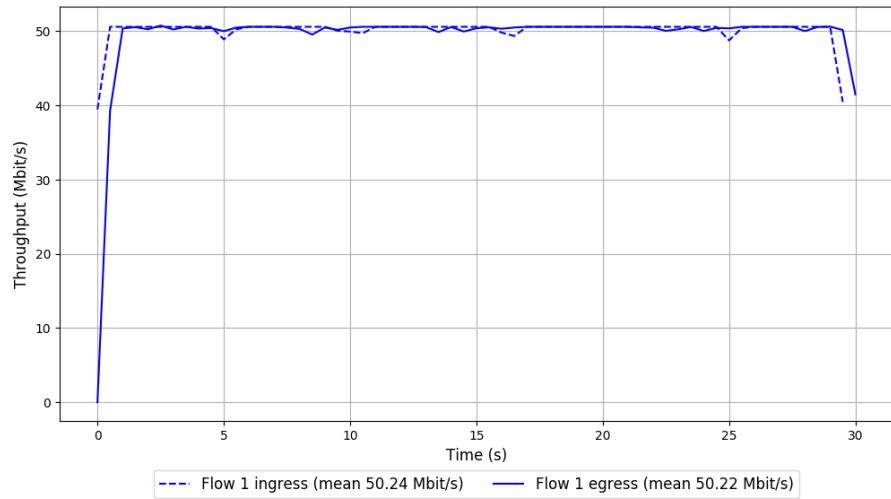


Run 2: Statistics of Sprout

```
Start at: 2019-01-21 21:42:13
End at: 2019-01-21 21:42:43
Local clock offset: -5.09 ms
Remote clock offset: 0.822 ms

# Below is generated by plot.py at 2019-01-21 23:12:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 10.838 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 10.838 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

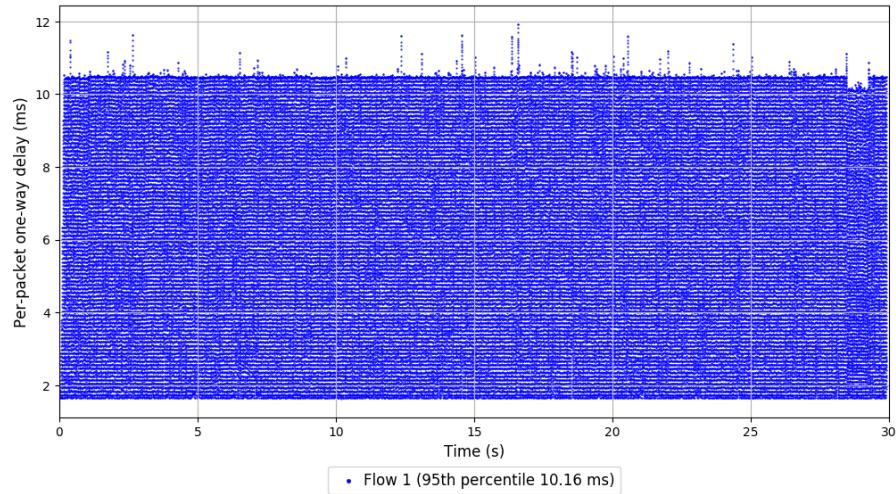
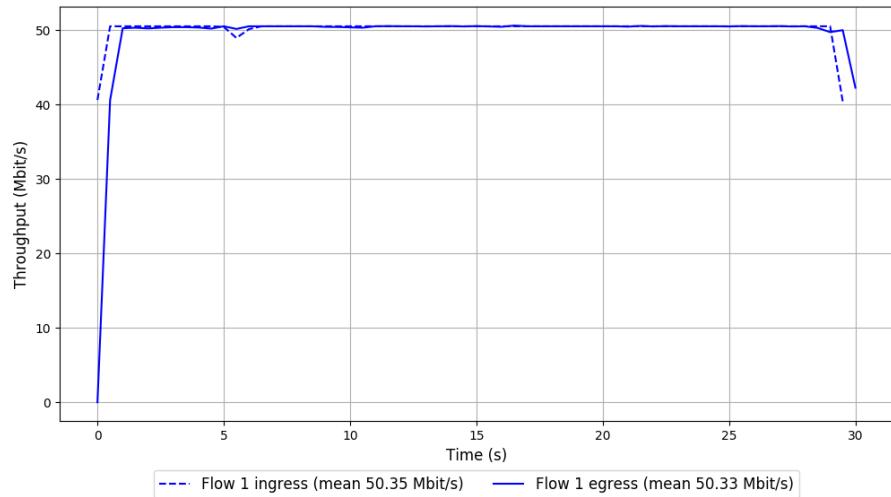


Run 3: Statistics of Sprout

```
Start at: 2019-01-21 22:05:52
End at: 2019-01-21 22:06:22
Local clock offset: -4.134 ms
Remote clock offset: 0.981 ms

# Below is generated by plot.py at 2019-01-21 23:12:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.33 Mbit/s
95th percentile per-packet one-way delay: 10.163 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.33 Mbit/s
95th percentile per-packet one-way delay: 10.163 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

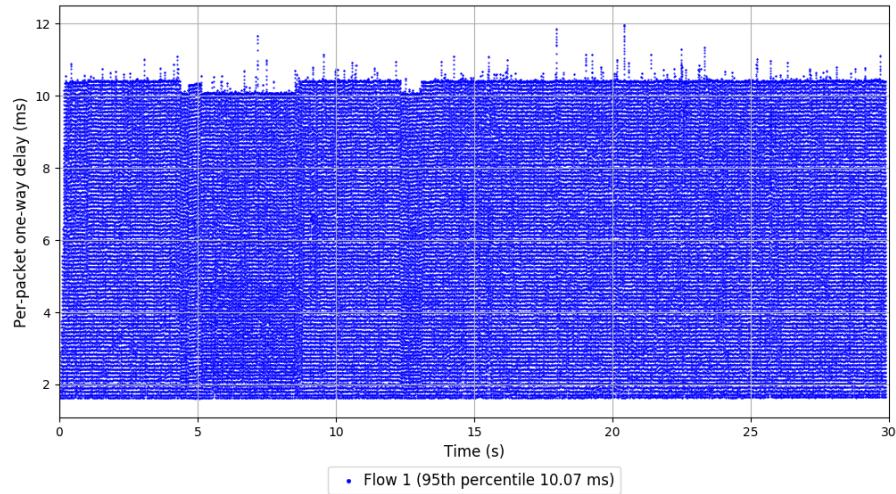
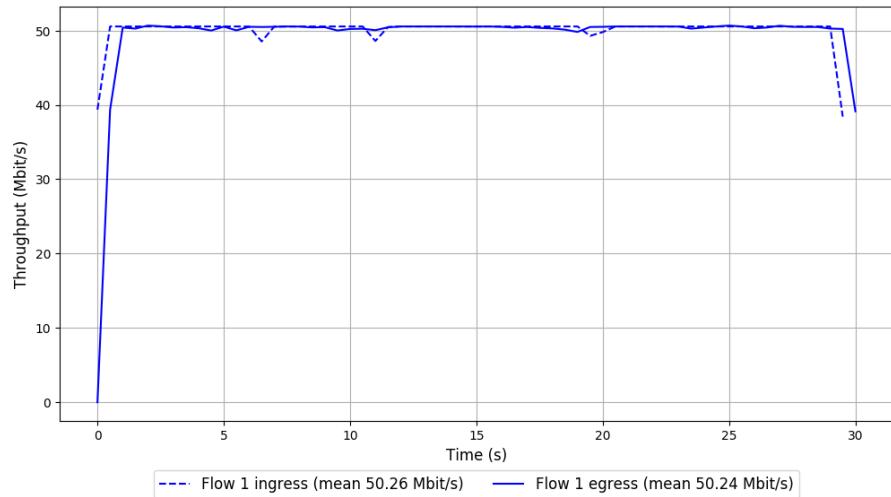


Run 4: Statistics of Sprout

```
Start at: 2019-01-21 22:29:37
End at: 2019-01-21 22:30:07
Local clock offset: -5.037 ms
Remote clock offset: 1.054 ms

# Below is generated by plot.py at 2019-01-21 23:12:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.24 Mbit/s
95th percentile per-packet one-way delay: 10.070 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 50.24 Mbit/s
95th percentile per-packet one-way delay: 10.070 ms
Loss rate: 0.02%
```

Run 4: Report of Sprout — Data Link

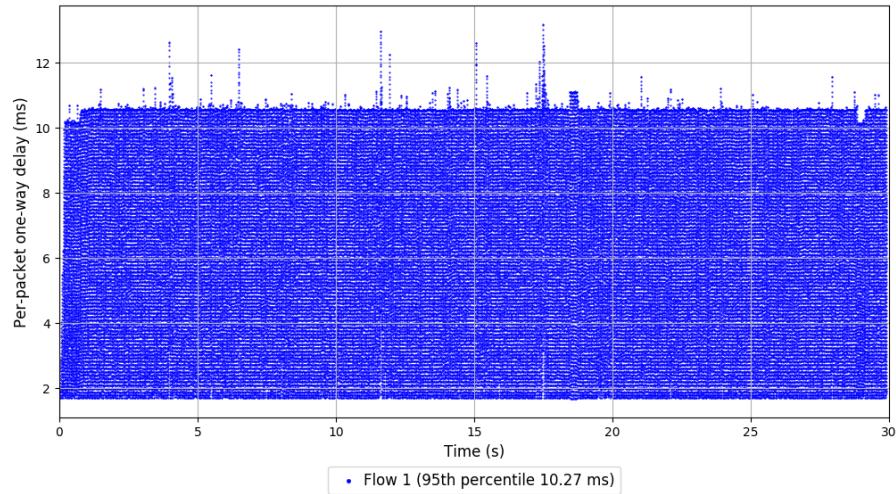
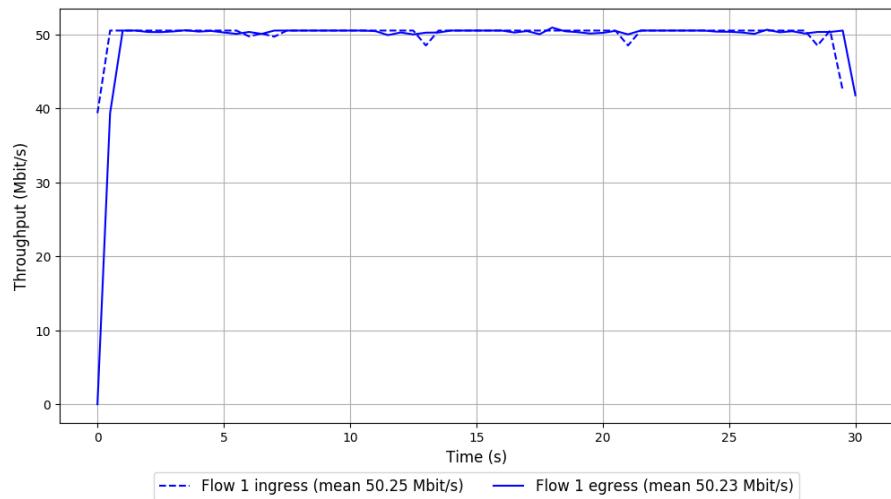


Run 5: Statistics of Sprout

```
Start at: 2019-01-21 22:53:19
End at: 2019-01-21 22:53:49
Local clock offset: -5.493 ms
Remote clock offset: 0.978 ms

# Below is generated by plot.py at 2019-01-21 23:12:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.23 Mbit/s
95th percentile per-packet one-way delay: 10.274 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 50.23 Mbit/s
95th percentile per-packet one-way delay: 10.274 ms
Loss rate: 0.02%
```

Run 5: Report of Sprout — Data Link

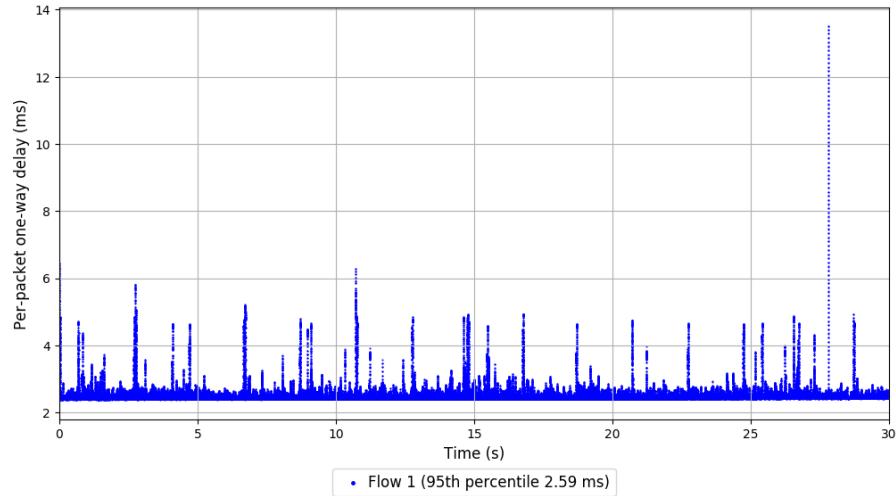
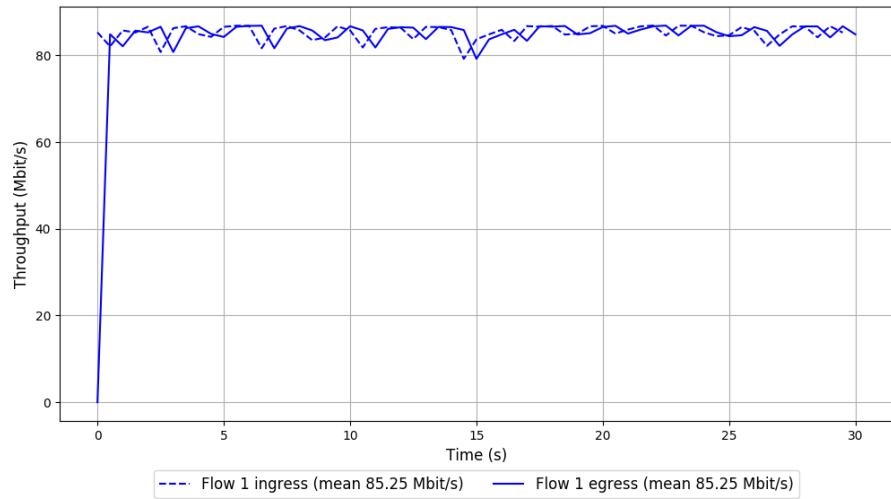


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-21 21:10:31
End at: 2019-01-21 21:11:01
Local clock offset: -4.698 ms
Remote clock offset: 0.388 ms

# Below is generated by plot.py at 2019-01-21 23:13:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.25 Mbit/s
95th percentile per-packet one-way delay: 2.593 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 85.25 Mbit/s
95th percentile per-packet one-way delay: 2.593 ms
Loss rate: 0.02%
```

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

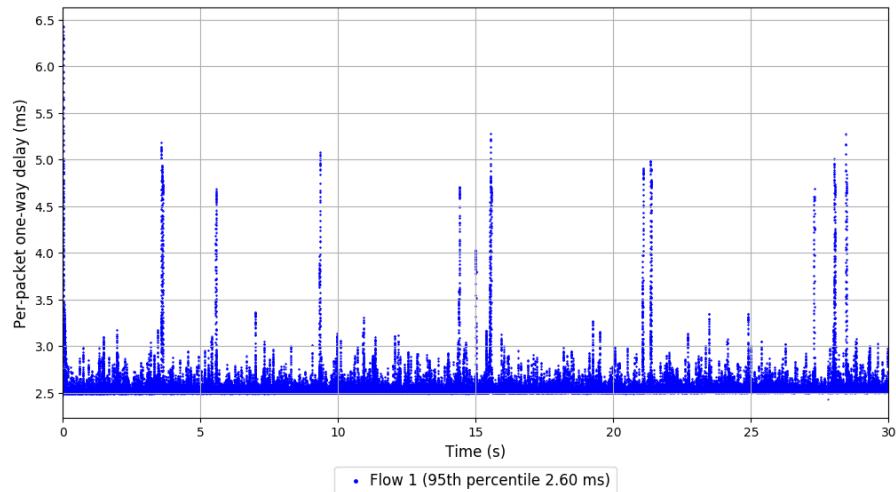
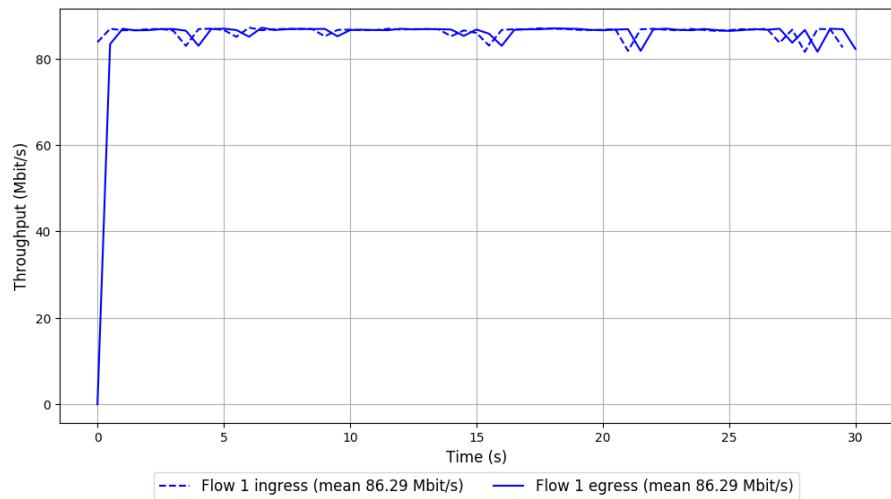


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-21 21:34:12
End at: 2019-01-21 21:34:42
Local clock offset: -4.893 ms
Remote clock offset: 0.618 ms

# Below is generated by plot.py at 2019-01-21 23:14:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.29 Mbit/s
95th percentile per-packet one-way delay: 2.603 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 86.29 Mbit/s
95th percentile per-packet one-way delay: 2.603 ms
Loss rate: 0.01%
```

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

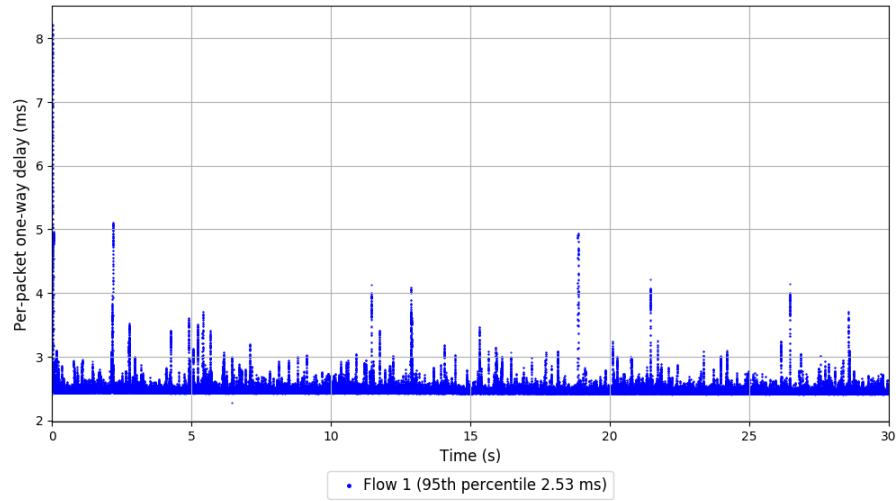
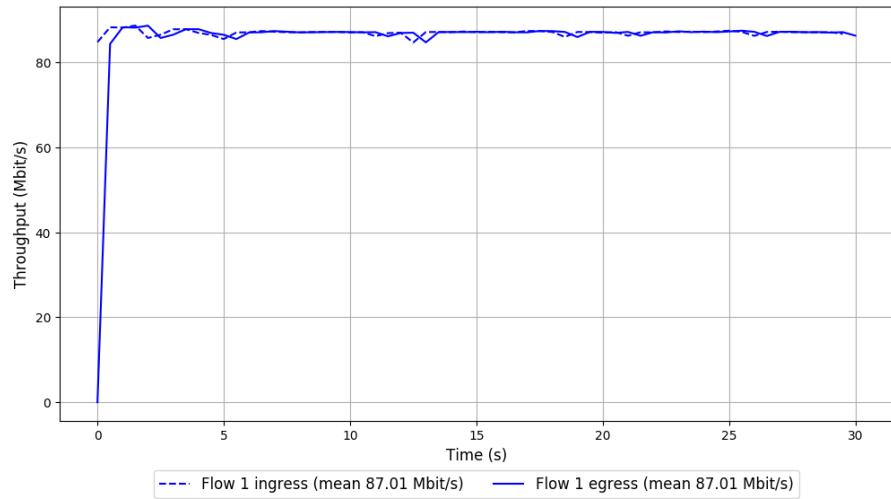


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-21 21:57:54
End at: 2019-01-21 21:58:24
Local clock offset: -3.641 ms
Remote clock offset: 0.836 ms

# Below is generated by plot.py at 2019-01-21 23:14:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.01 Mbit/s
95th percentile per-packet one-way delay: 2.533 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 87.01 Mbit/s
95th percentile per-packet one-way delay: 2.533 ms
Loss rate: 0.02%
```

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

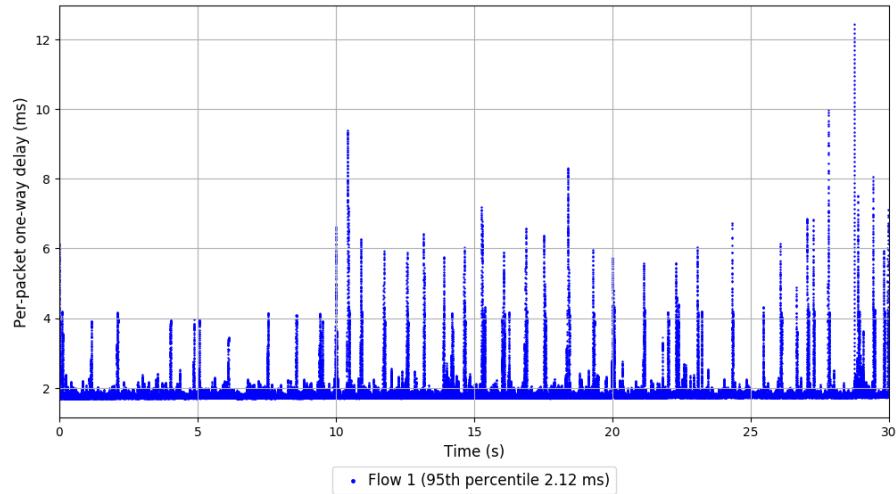
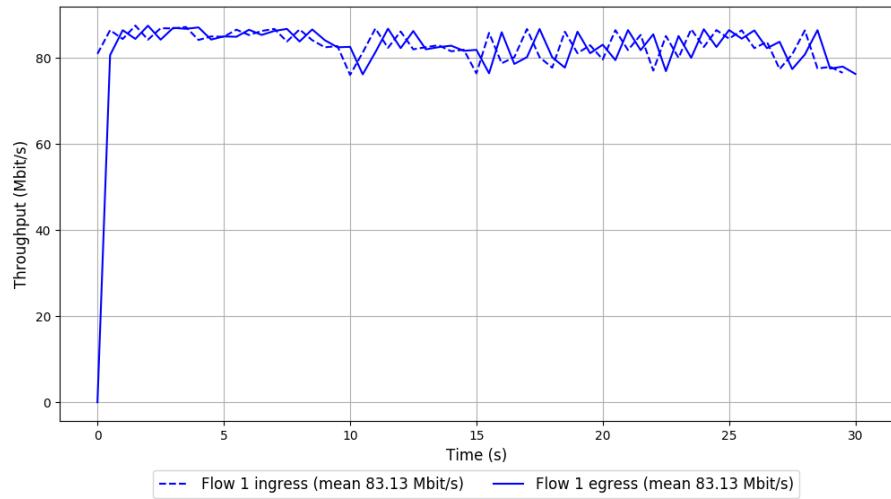


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-21 22:21:36
End at: 2019-01-21 22:22:06
Local clock offset: -4.551 ms
Remote clock offset: 1.024 ms

# Below is generated by plot.py at 2019-01-21 23:14:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.13 Mbit/s
95th percentile per-packet one-way delay: 2.125 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 83.13 Mbit/s
95th percentile per-packet one-way delay: 2.125 ms
Loss rate: 0.01%
```

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

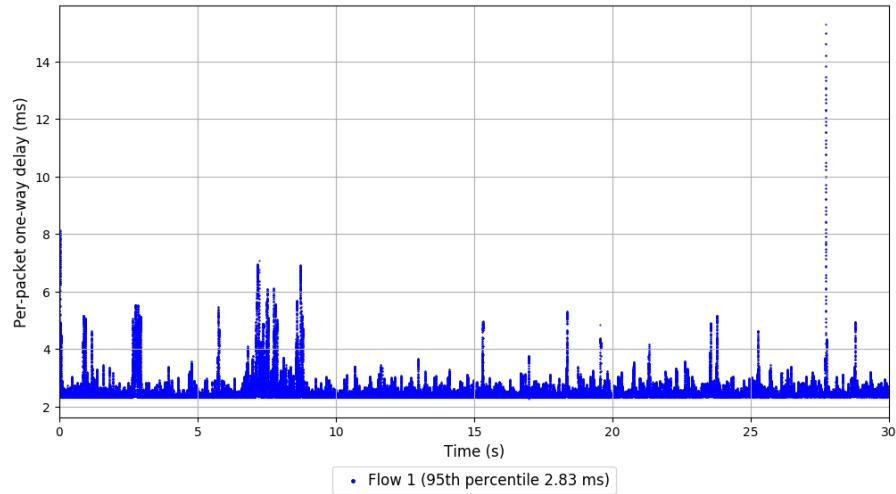
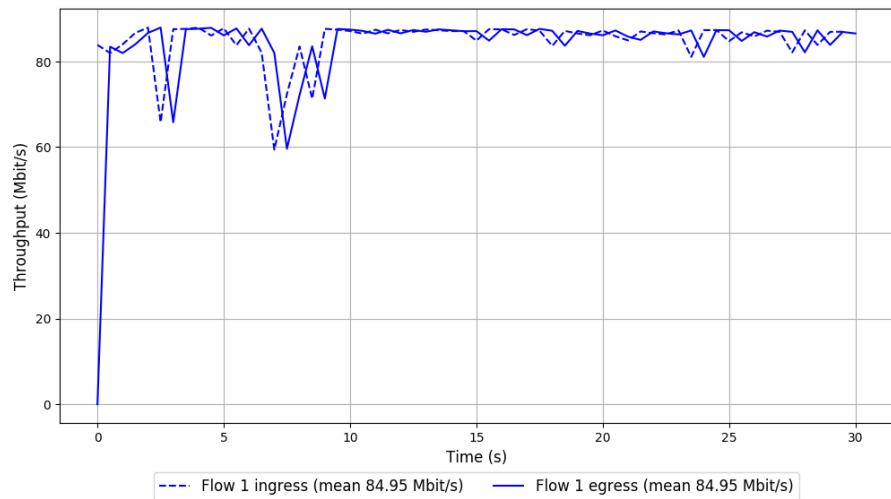


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-21 22:45:20
End at: 2019-01-21 22:45:50
Local clock offset: -4.593 ms
Remote clock offset: 1.055 ms

# Below is generated by plot.py at 2019-01-21 23:14:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.95 Mbit/s
95th percentile per-packet one-way delay: 2.825 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 84.95 Mbit/s
95th percentile per-packet one-way delay: 2.825 ms
Loss rate: 0.02%
```

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

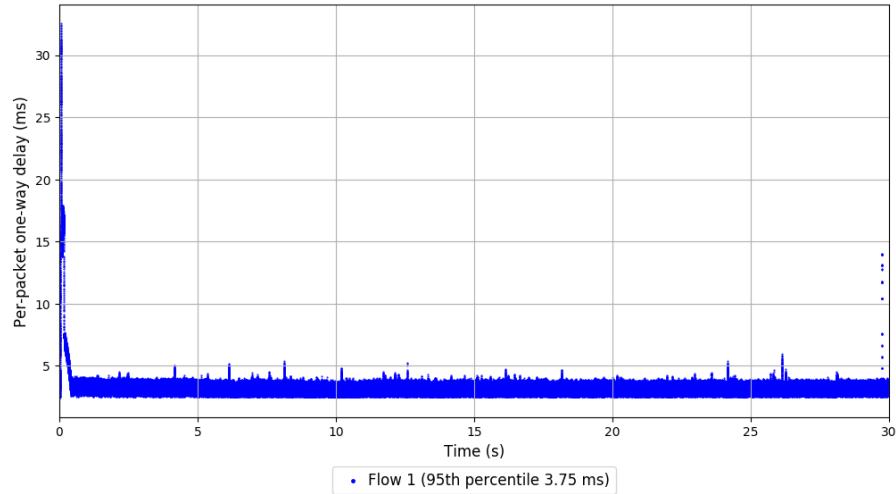
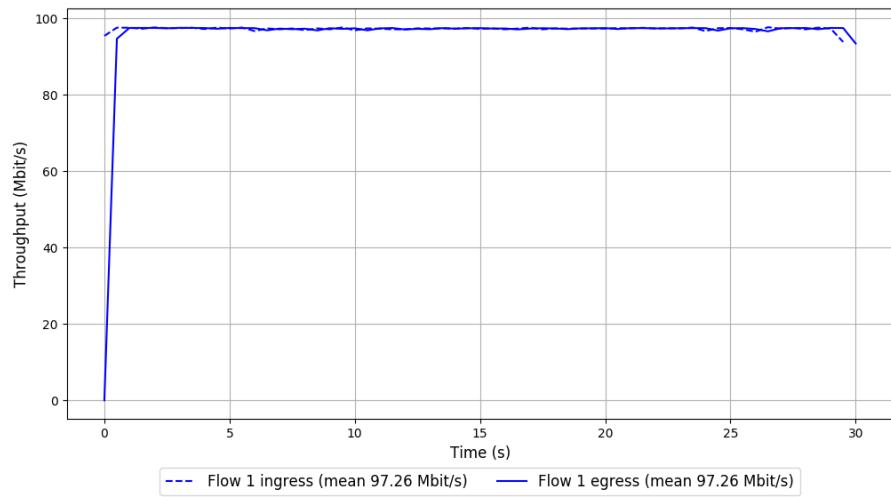


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-21 21:15:06
End at: 2019-01-21 21:15:36
Local clock offset: -4.902 ms
Remote clock offset: 0.362 ms

# Below is generated by plot.py at 2019-01-21 23:14:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.26 Mbit/s
95th percentile per-packet one-way delay: 3.755 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.26 Mbit/s
95th percentile per-packet one-way delay: 3.755 ms
Loss rate: 0.02%
```

Run 1: Report of TCP Vegas — Data Link

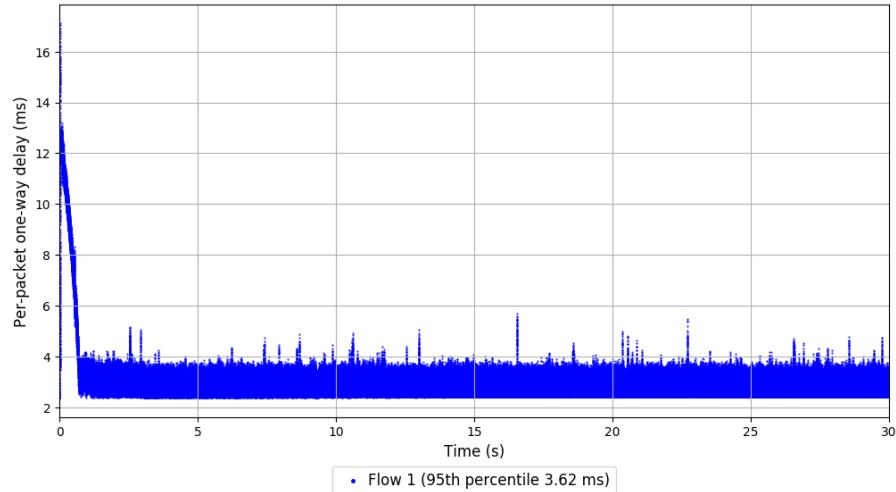
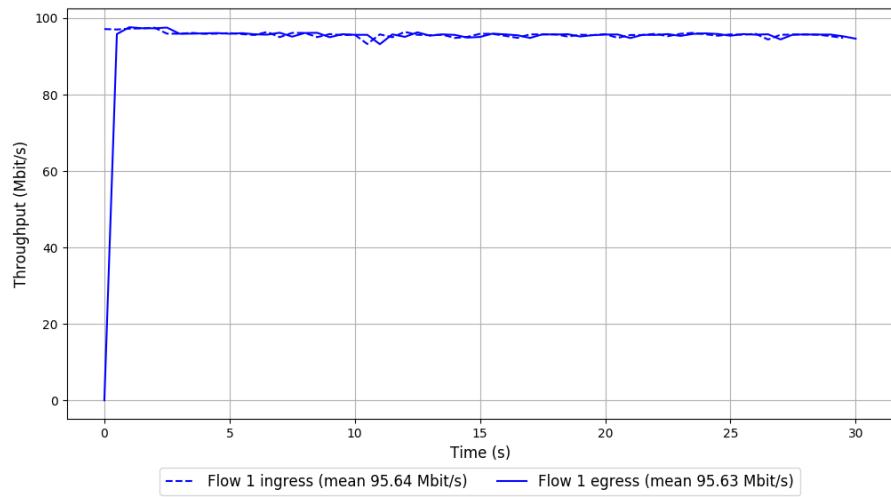


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-21 21:38:47
End at: 2019-01-21 21:39:18
Local clock offset: -5.022 ms
Remote clock offset: 0.747 ms

# Below is generated by plot.py at 2019-01-21 23:14:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 3.620 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 3.620 ms
Loss rate: 0.01%
```

Run 2: Report of TCP Vegas — Data Link

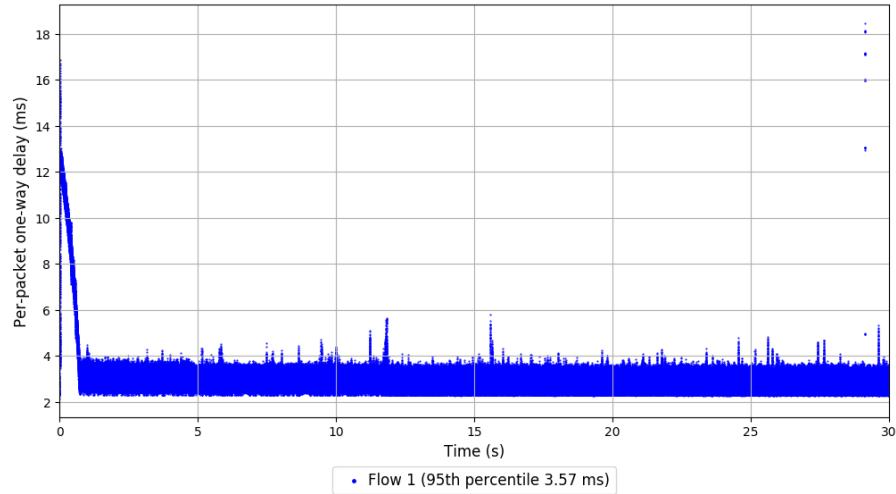
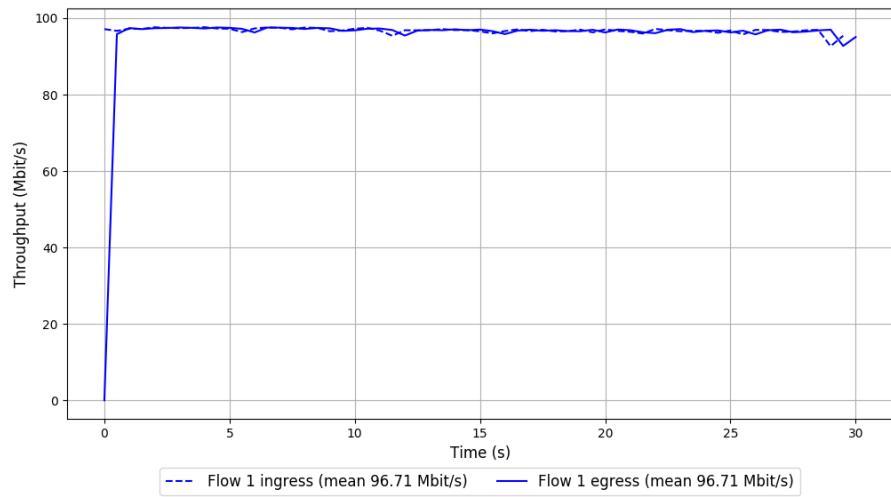


Run 3: Statistics of TCP Vegas

```
Start at: 2019-01-21 22:02:28
End at: 2019-01-21 22:02:58
Local clock offset: -3.53 ms
Remote clock offset: 0.988 ms

# Below is generated by plot.py at 2019-01-21 23:14:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.71 Mbit/s
95th percentile per-packet one-way delay: 3.571 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.71 Mbit/s
95th percentile per-packet one-way delay: 3.571 ms
Loss rate: 0.01%
```

Run 3: Report of TCP Vegas — Data Link

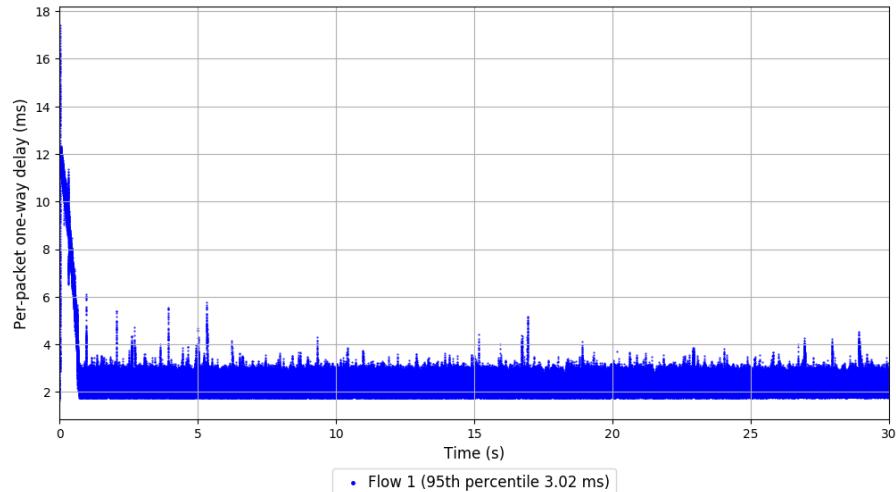
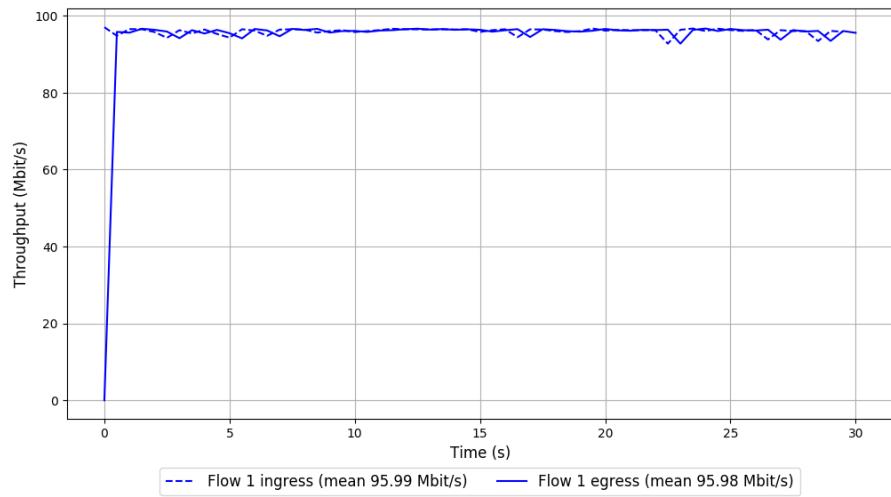


Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-21 22:26:11
End at: 2019-01-21 22:26:41
Local clock offset: -4.828 ms
Remote clock offset: 0.983 ms

# Below is generated by plot.py at 2019-01-21 23:14:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 3.021 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 3.021 ms
Loss rate: 0.01%
```

Run 4: Report of TCP Vegas — Data Link

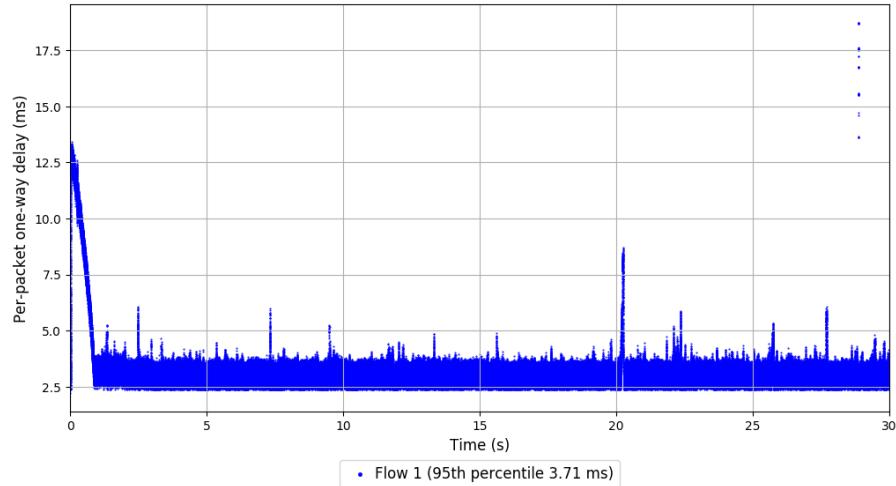
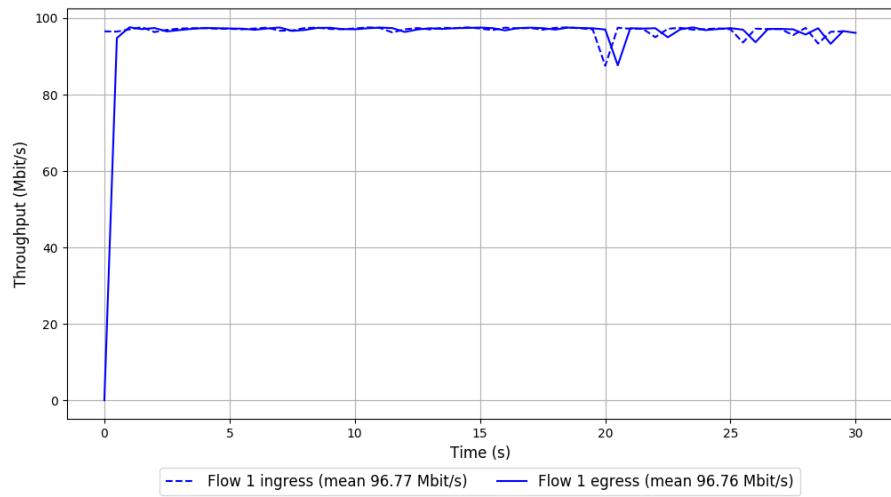


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-21 22:49:55
End at: 2019-01-21 22:50:25
Local clock offset: -4.691 ms
Remote clock offset: 1.059 ms

# Below is generated by plot.py at 2019-01-21 23:14:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.76 Mbit/s
95th percentile per-packet one-way delay: 3.714 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 96.76 Mbit/s
95th percentile per-packet one-way delay: 3.714 ms
Loss rate: 0.02%
```

Run 5: Report of TCP Vegas — Data Link

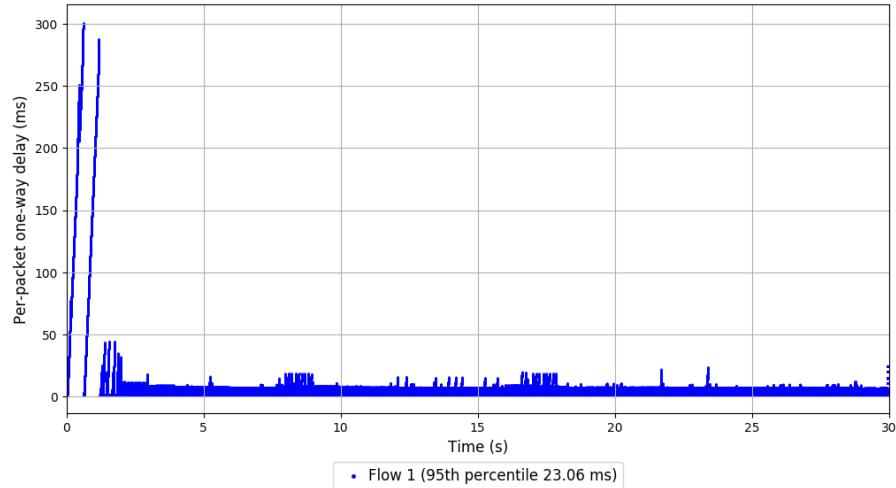
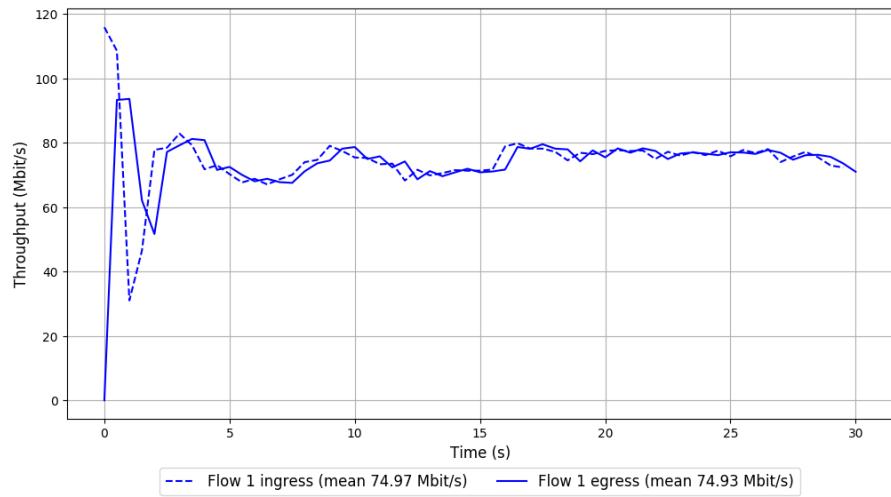


Run 1: Statistics of Verus

```
Start at: 2019-01-21 21:20:44
End at: 2019-01-21 21:21:14
Local clock offset: -5.525 ms
Remote clock offset: 0.613 ms

# Below is generated by plot.py at 2019-01-21 23:14:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.93 Mbit/s
95th percentile per-packet one-way delay: 23.063 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 74.93 Mbit/s
95th percentile per-packet one-way delay: 23.063 ms
Loss rate: 0.06%
```

Run 1: Report of Verus — Data Link

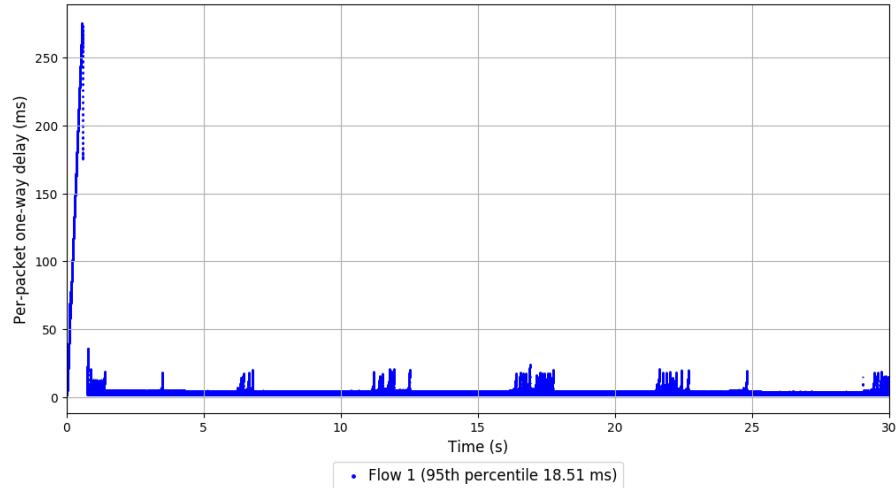
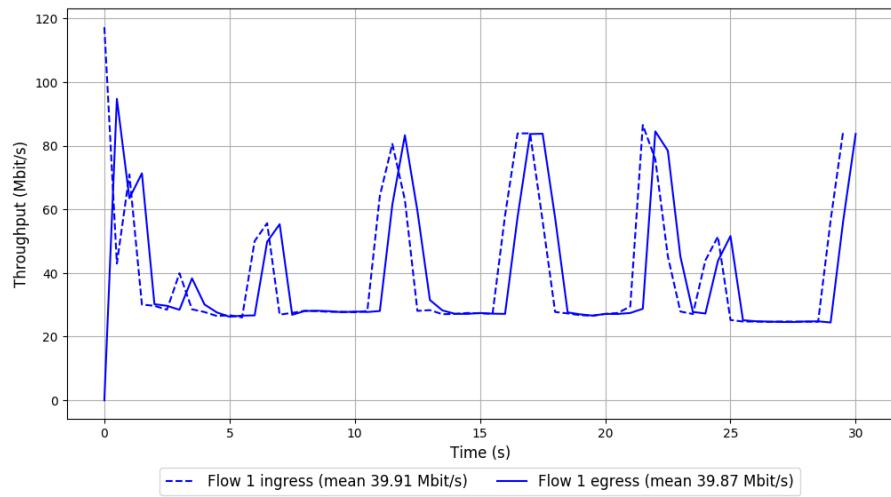


Run 2: Statistics of Verus

```
Start at: 2019-01-21 21:44:28
End at: 2019-01-21 21:44:58
Local clock offset: -5.9 ms
Remote clock offset: 0.798 ms

# Below is generated by plot.py at 2019-01-21 23:14:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 39.87 Mbit/s
95th percentile per-packet one-way delay: 18.507 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 39.87 Mbit/s
95th percentile per-packet one-way delay: 18.507 ms
Loss rate: 0.12%
```

Run 2: Report of Verus — Data Link

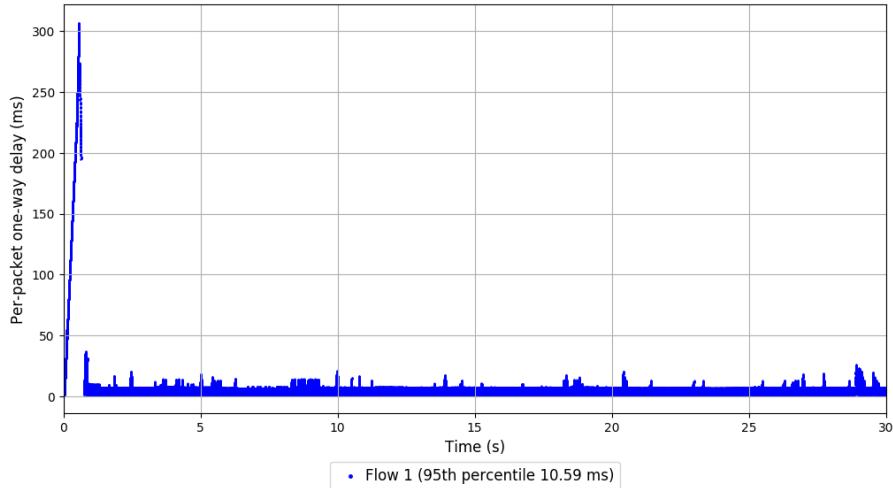
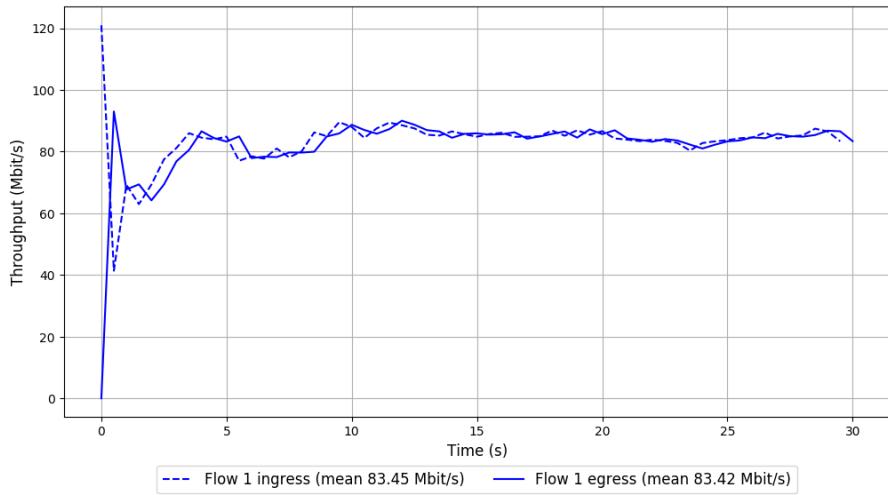


Run 3: Statistics of Verus

```
Start at: 2019-01-21 22:08:07
End at: 2019-01-21 22:08:37
Local clock offset: -4.143 ms
Remote clock offset: 1.039 ms

# Below is generated by plot.py at 2019-01-21 23:15:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.42 Mbit/s
95th percentile per-packet one-way delay: 10.592 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 83.42 Mbit/s
95th percentile per-packet one-way delay: 10.592 ms
Loss rate: 0.03%
```

Run 3: Report of Verus — Data Link

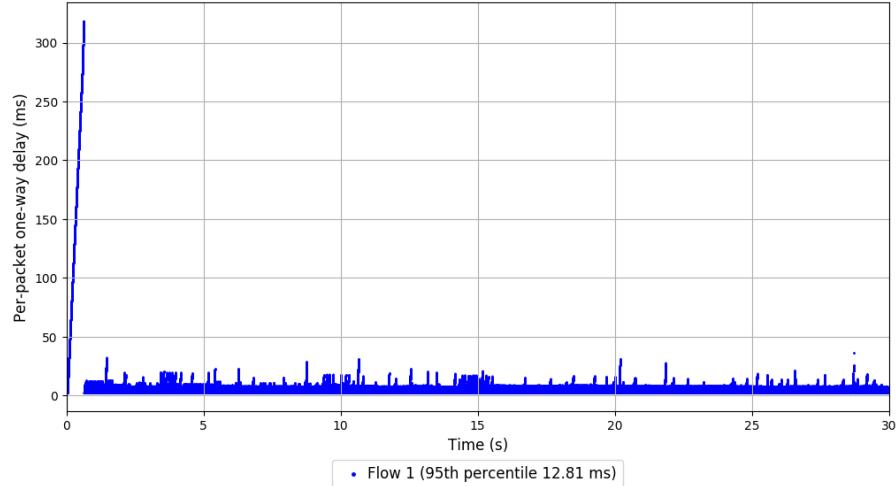
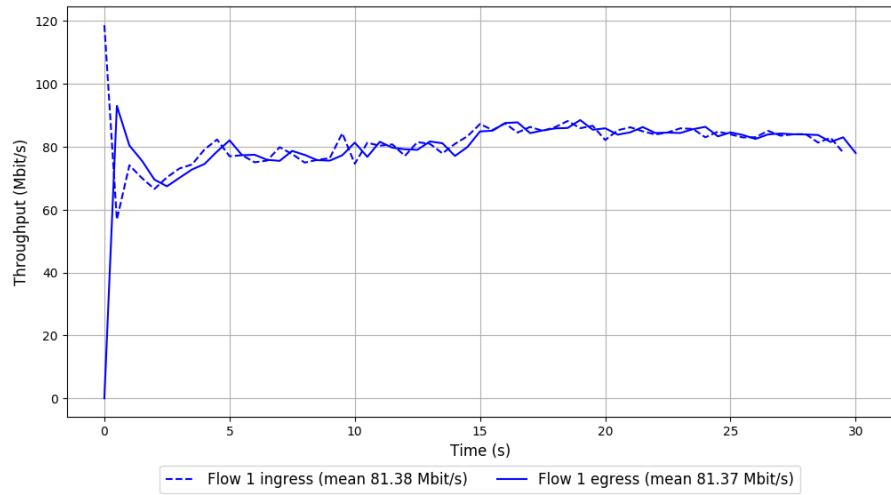


Run 4: Statistics of Verus

```
Start at: 2019-01-21 22:31:52
End at: 2019-01-21 22:32:22
Local clock offset: -4.361 ms
Remote clock offset: 1.087 ms

# Below is generated by plot.py at 2019-01-21 23:15:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.37 Mbit/s
95th percentile per-packet one-way delay: 12.810 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 81.37 Mbit/s
95th percentile per-packet one-way delay: 12.810 ms
Loss rate: 0.03%
```

Run 4: Report of Verus — Data Link

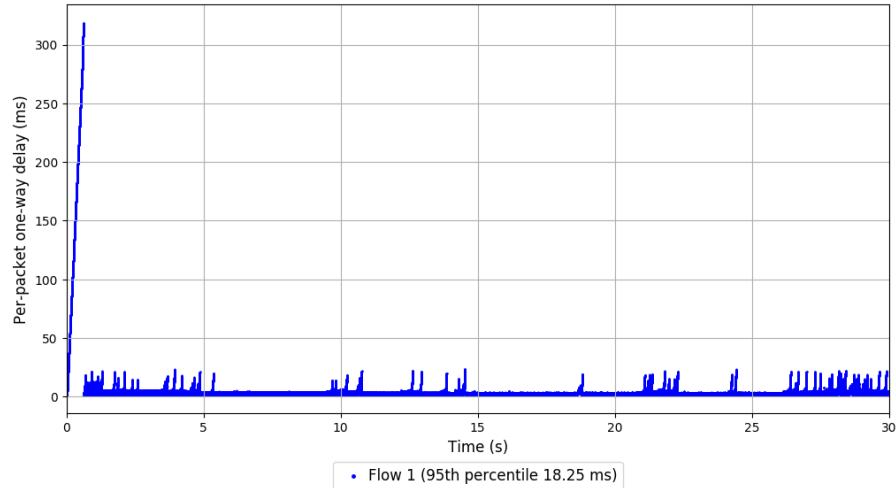
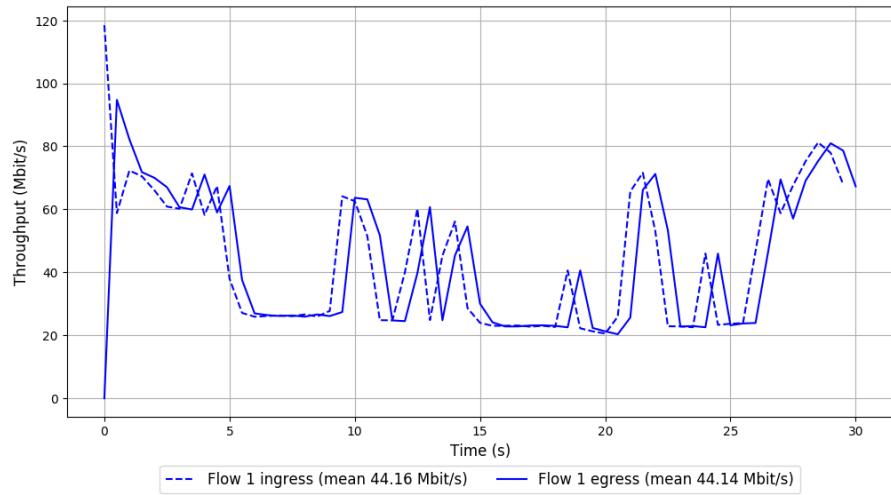


Run 5: Statistics of Verus

```
Start at: 2019-01-21 22:55:34
End at: 2019-01-21 22:56:04
Local clock offset: -5.536 ms
Remote clock offset: 1.003 ms

# Below is generated by plot.py at 2019-01-21 23:15:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.14 Mbit/s
95th percentile per-packet one-way delay: 18.245 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 44.14 Mbit/s
95th percentile per-packet one-way delay: 18.245 ms
Loss rate: 0.04%
```

Run 5: Report of Verus — Data Link

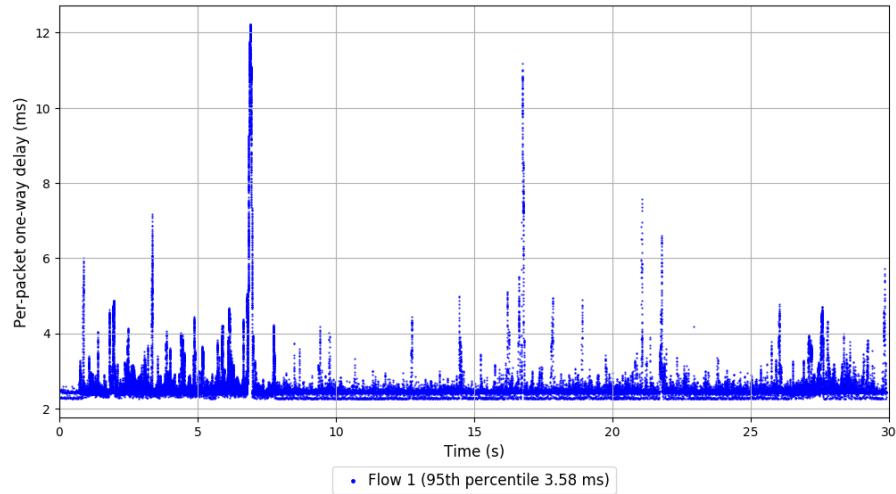
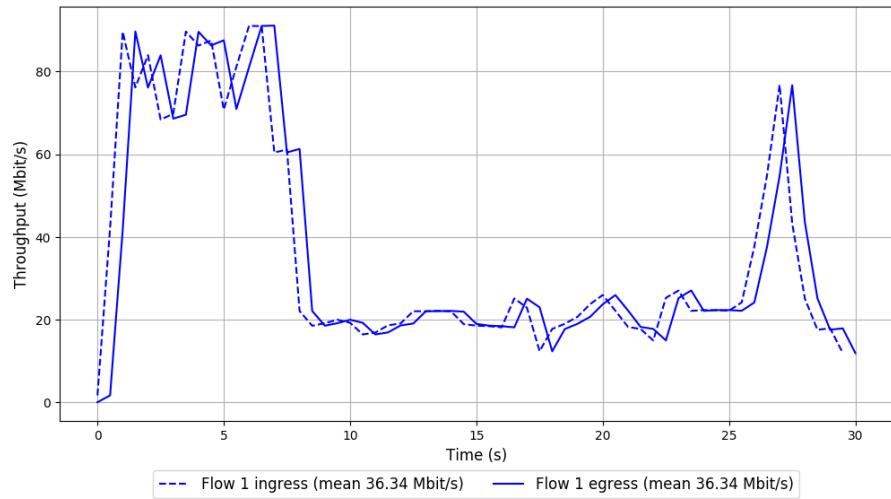


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-01-21 21:17:22
End at: 2019-01-21 21:17:52
Local clock offset: -4.828 ms
Remote clock offset: 0.495 ms

# Below is generated by plot.py at 2019-01-21 23:15:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.34 Mbit/s
95th percentile per-packet one-way delay: 3.582 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 36.34 Mbit/s
95th percentile per-packet one-way delay: 3.582 ms
Loss rate: 0.01%
```

Run 1: Report of PCC-Vivace — Data Link

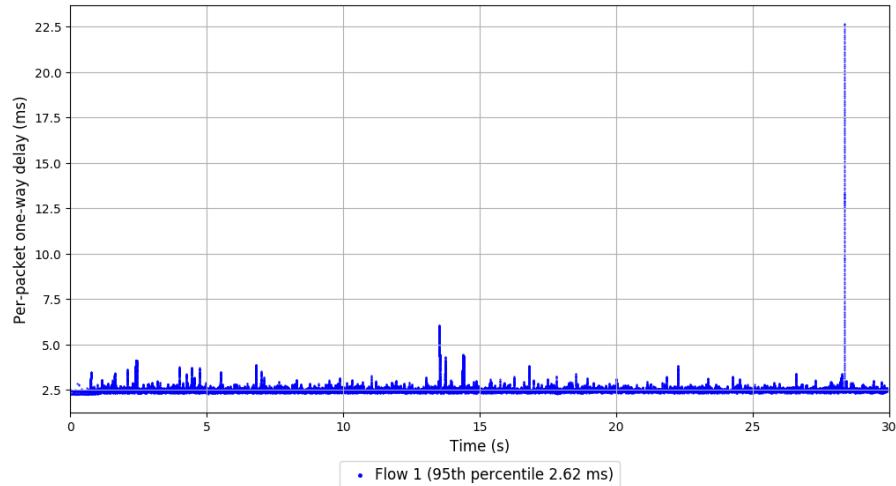
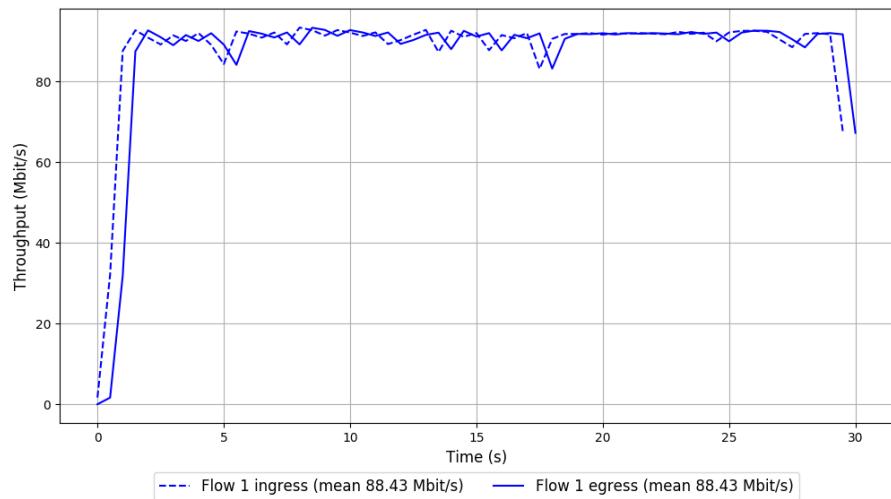


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-21 21:41:04
End at: 2019-01-21 21:41:34
Local clock offset: -5.061 ms
Remote clock offset: 0.765 ms

# Below is generated by plot.py at 2019-01-21 23:15:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.43 Mbit/s
95th percentile per-packet one-way delay: 2.621 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 88.43 Mbit/s
95th percentile per-packet one-way delay: 2.621 ms
Loss rate: 0.02%
```

Run 2: Report of PCC-Vivace — Data Link

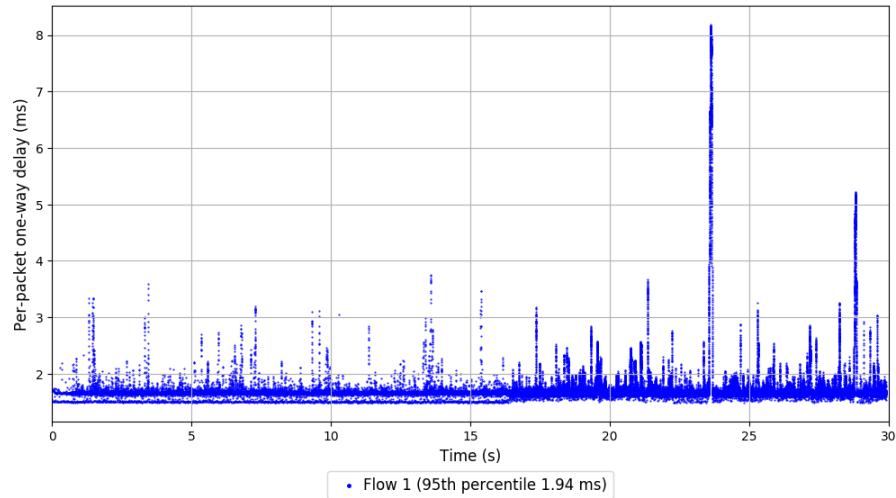
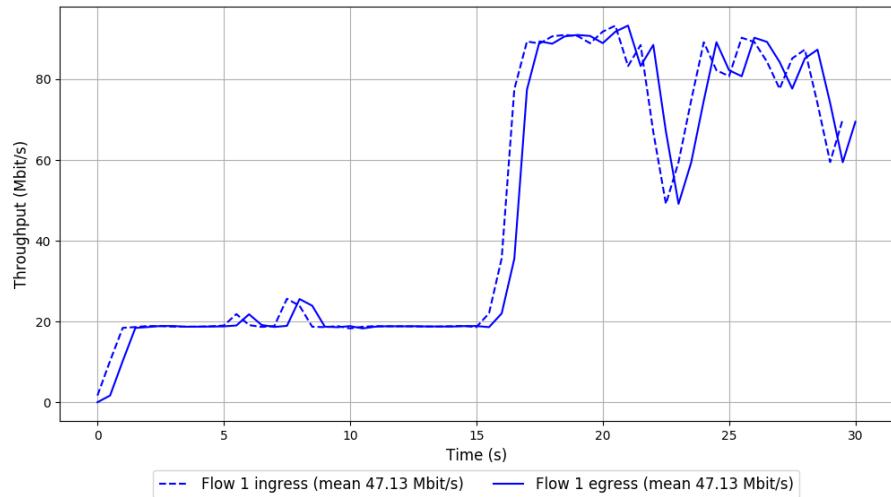


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-21 22:04:45
End at: 2019-01-21 22:05:15
Local clock offset: -4.148 ms
Remote clock offset: 0.944 ms

# Below is generated by plot.py at 2019-01-21 23:15:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.13 Mbit/s
95th percentile per-packet one-way delay: 1.936 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 47.13 Mbit/s
95th percentile per-packet one-way delay: 1.936 ms
Loss rate: 0.03%
```

Run 3: Report of PCC-Vivace — Data Link

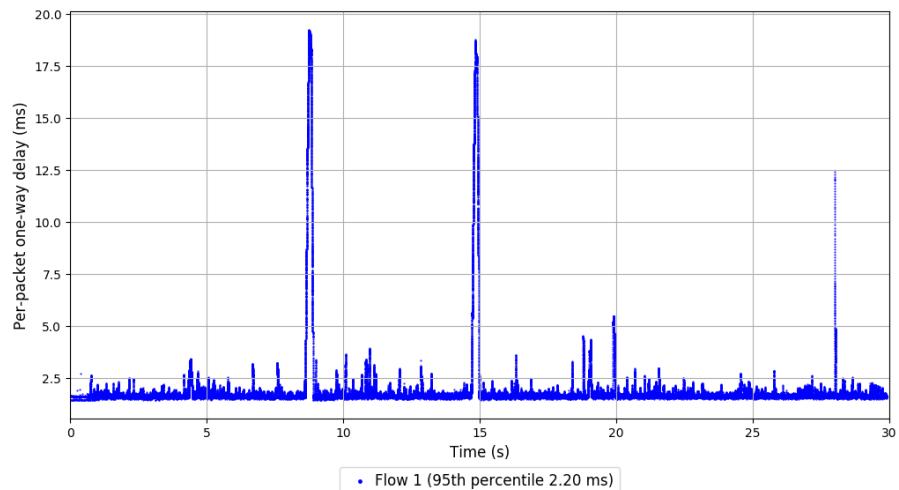
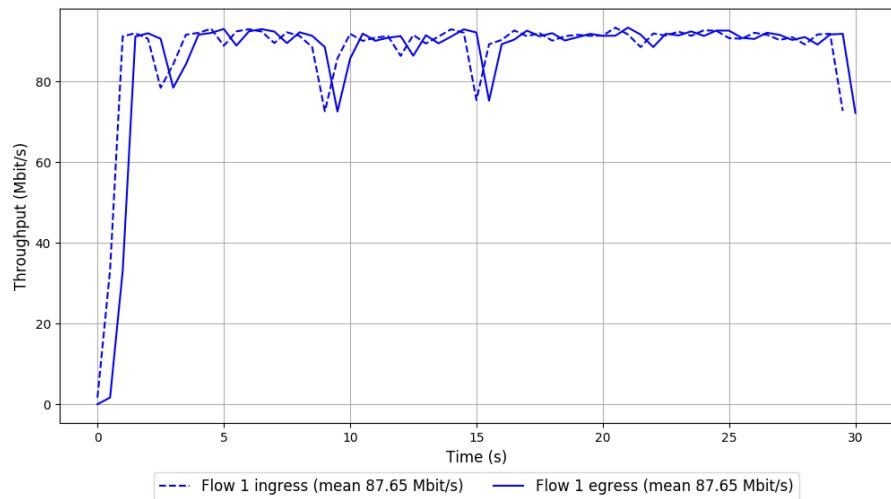


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-21 22:28:27
End at: 2019-01-21 22:28:57
Local clock offset: -4.929 ms
Remote clock offset: 1.107 ms

# Below is generated by plot.py at 2019-01-21 23:15:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.65 Mbit/s
95th percentile per-packet one-way delay: 2.198 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 87.65 Mbit/s
95th percentile per-packet one-way delay: 2.198 ms
Loss rate: 0.02%
```

Run 4: Report of PCC-Vivace — Data Link

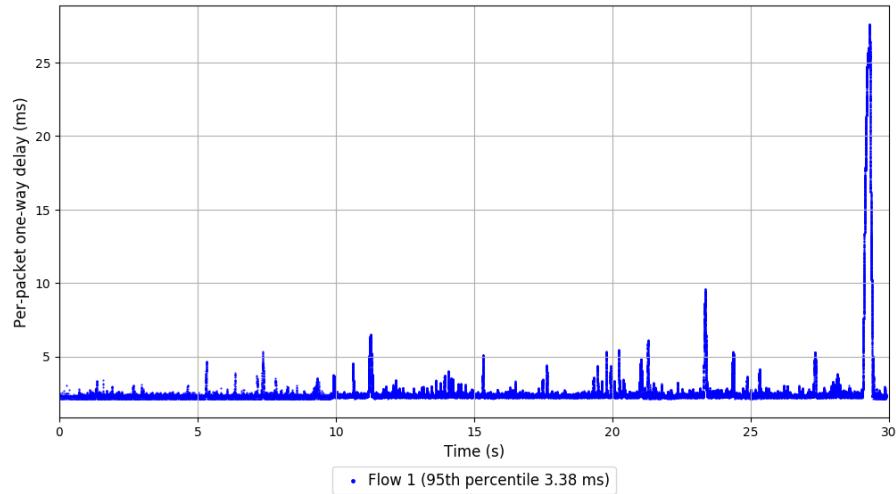
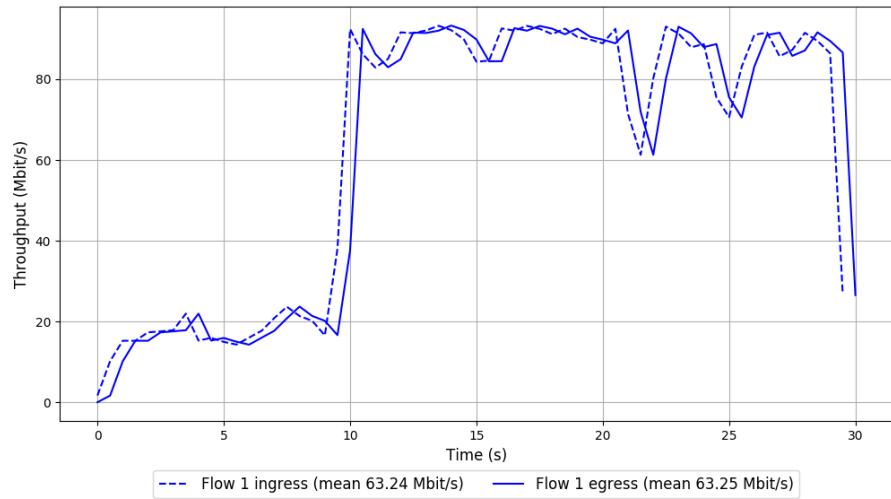


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-21 22:52:11
End at: 2019-01-21 22:52:41
Local clock offset: -4.813 ms
Remote clock offset: 1.064 ms

# Below is generated by plot.py at 2019-01-21 23:15:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.25 Mbit/s
95th percentile per-packet one-way delay: 3.382 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 63.25 Mbit/s
95th percentile per-packet one-way delay: 3.382 ms
Loss rate: 0.01%
```

Run 5: Report of PCC-Vivace — Data Link

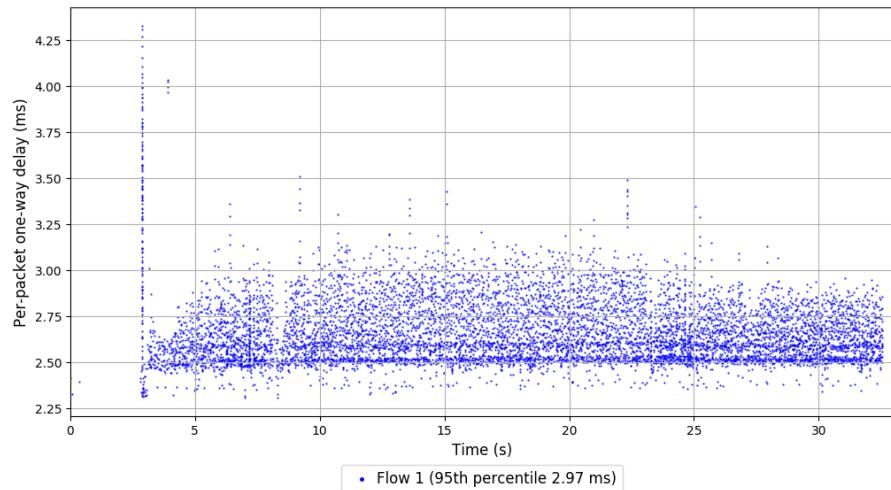
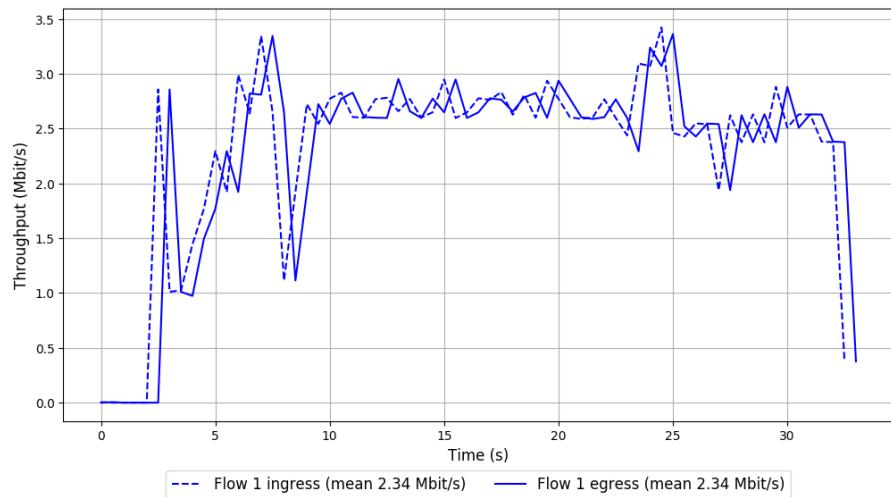


```
Run 1: Statistics of WebRTC media
```

```
Start at: 2019-01-21 21:06:00
End at: 2019-01-21 21:06:30
Local clock offset: -4.452 ms
Remote clock offset: 0.314 ms

# Below is generated by plot.py at 2019-01-21 23:15:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 2.973 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 2.973 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

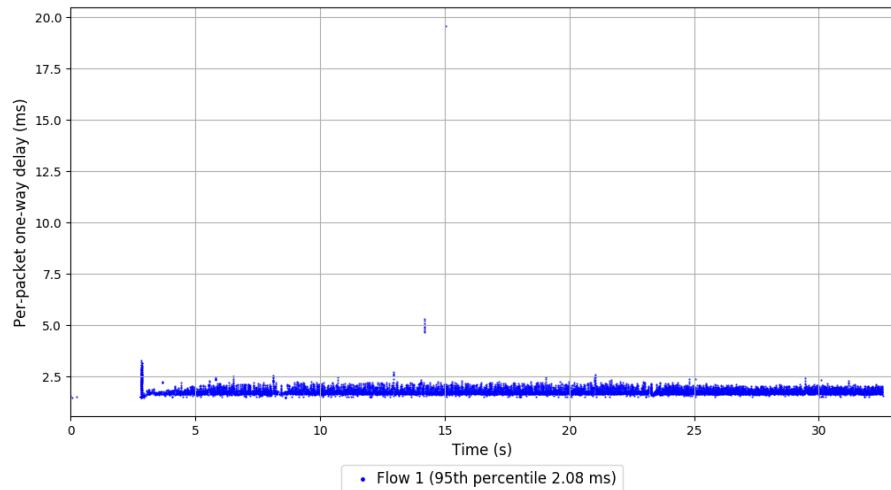
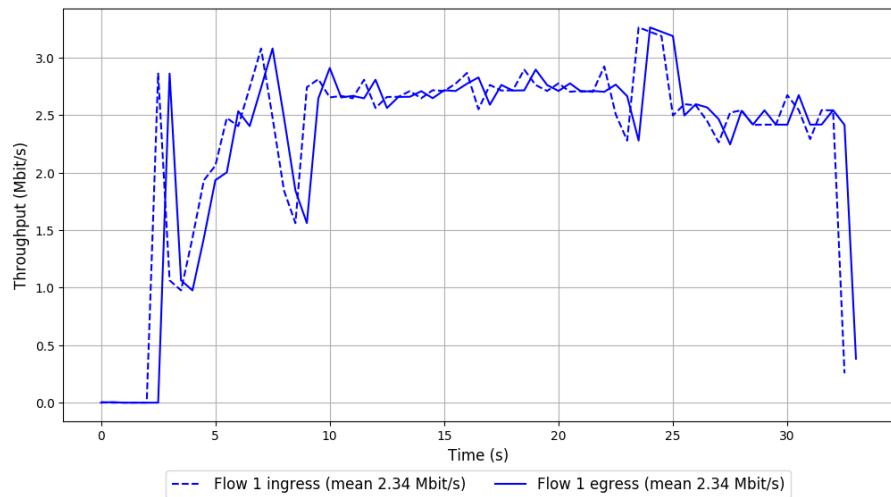


Run 2: Statistics of WebRTC media

```
Start at: 2019-01-21 21:29:40
End at: 2019-01-21 21:30:10
Local clock offset: -5.592 ms
Remote clock offset: 0.697 ms

# Below is generated by plot.py at 2019-01-21 23:15:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 2.077 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 2.077 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

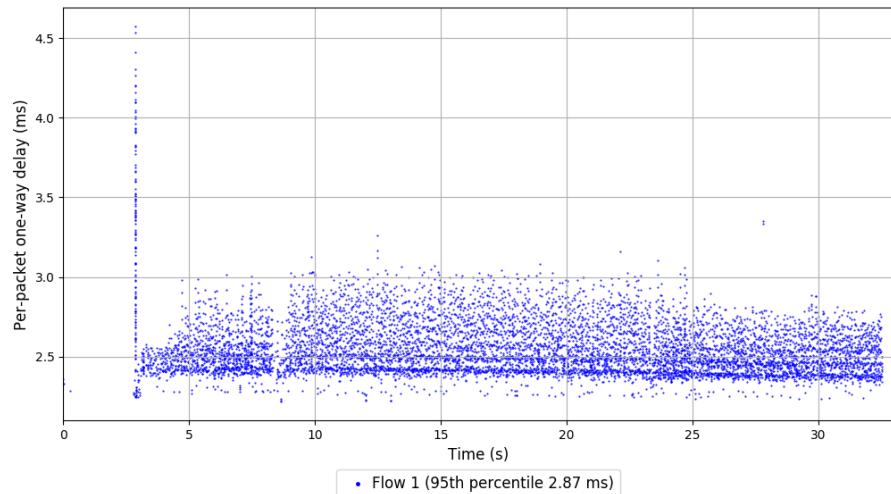
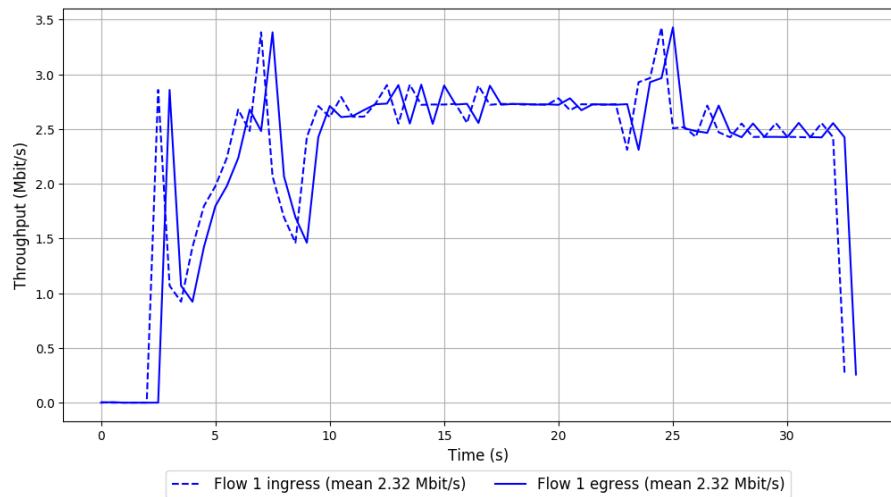


```
Run 3: Statistics of WebRTC media

Start at: 2019-01-21 21:53:23
End at: 2019-01-21 21:53:53
Local clock offset: -4.028 ms
Remote clock offset: 0.803 ms

# Below is generated by plot.py at 2019-01-21 23:15:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 2.868 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 2.868 ms
Loss rate: 0.01%
```

Run 3: Report of WebRTC media — Data Link

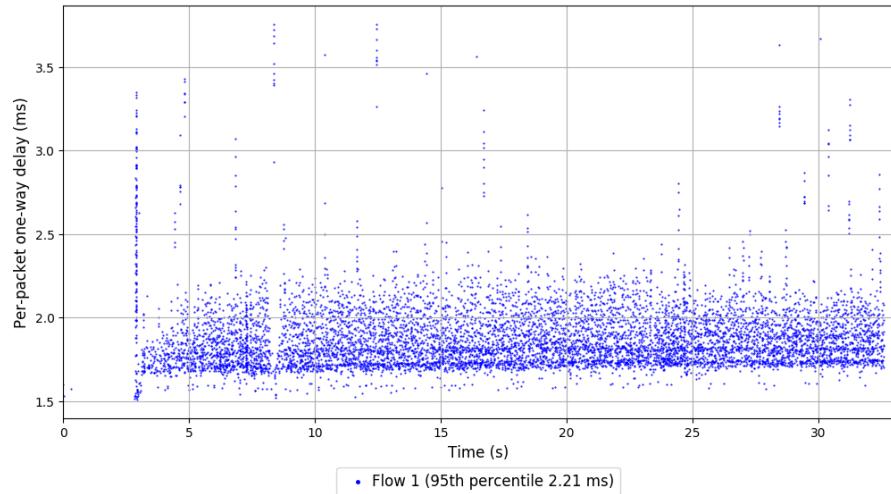
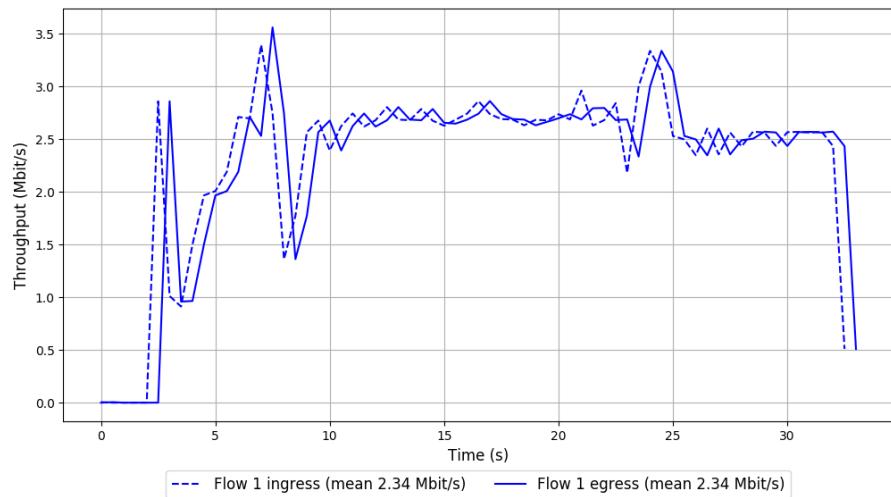


Run 4: Statistics of WebRTC media

```
Start at: 2019-01-21 22:17:04
End at: 2019-01-21 22:17:34
Local clock offset: -4.135 ms
Remote clock offset: 1.122 ms

# Below is generated by plot.py at 2019-01-21 23:15:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 2.208 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 2.208 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



```
Run 5: Statistics of WebRTC media

Start at: 2019-01-21 22:40:48
End at: 2019-01-21 22:41:18
Local clock offset: -5.267 ms
Remote clock offset: 1.053 ms

# Below is generated by plot.py at 2019-01-21 23:15:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 2.107 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 2.107 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

