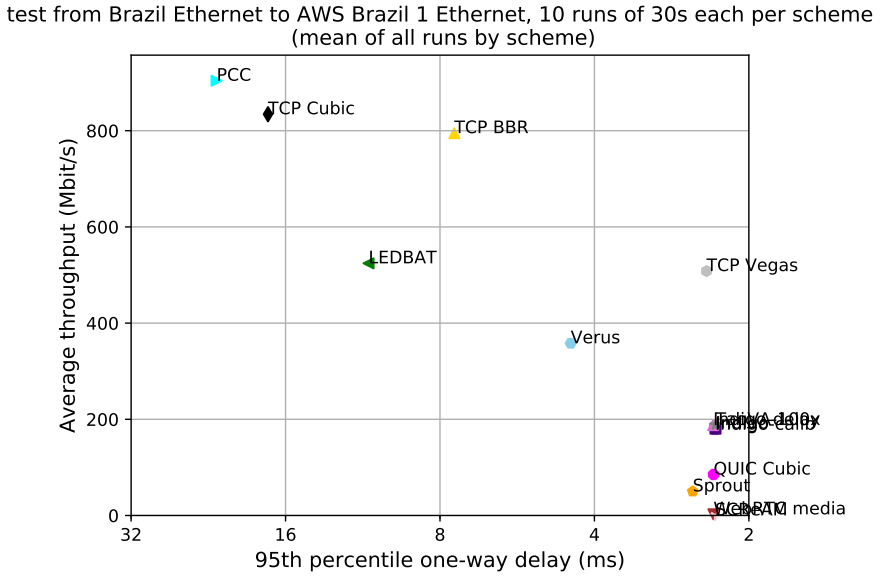
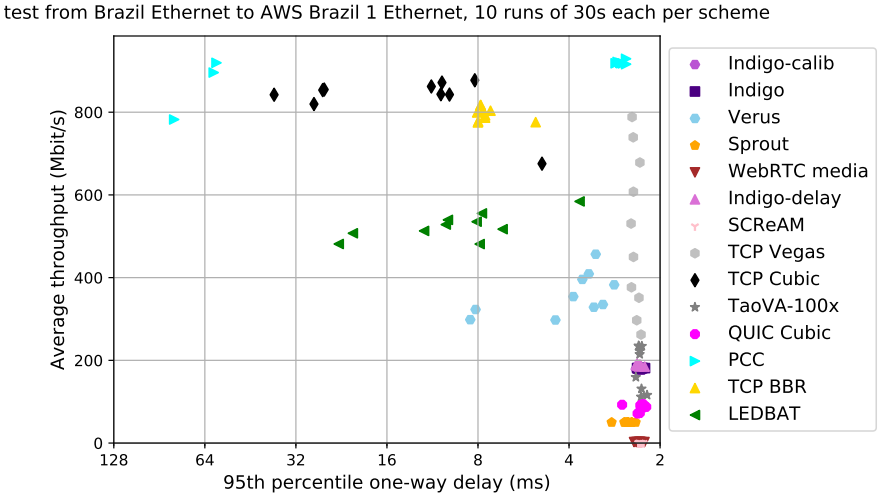
Pantheon Report

Generated at 2017-09-21 16:54:55 (UTC).
Data path: Brazil Ethernet (*remote*) →AWS Brazil 1 Ethernet (*local*).
Repeated the test of 14 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (`fq`), and other schemes with the default Linux qdisc (`pfifo_fast`).
NTP offsets were measured against `gps.ntp.br` and have been applied to correct the timestamps in logs.

```
Git summary:
branch: indigos @ 46c7c812d4acb71eea4f5fb0b03b3657cea3062f
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
 M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fabb936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
 M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
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/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
 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/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```


test from Brazil Ethernet to AWS Brazil 1 Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)
PCC
TCP Cubic
TCP BBR
LEDBAT
TCP Vegas
Verus
QUIC Cubic
Sprout
Average throughput (Mbit/s)
0
200
400
600
800
32
16
8
4
2
95th percentile one-way delay (ms)


test from Brazil Ethernet to AWS Brazil 1 Ethernet, 10 runs of 30s each per scheme
Average throughput (Mbit/s)
0
200
400
600
800
128
64
32
16
8
4
2
95th percentile one-way delay (ms)
Indigo-calib
Indigo
Verus
Sprout
WebRTC media
Indigo-delay
SCReAM
TCP Vegas
TCP Cubic
TaoVA-100x
QUIC Cubic
PCC
TCP BBR
LEDBAT

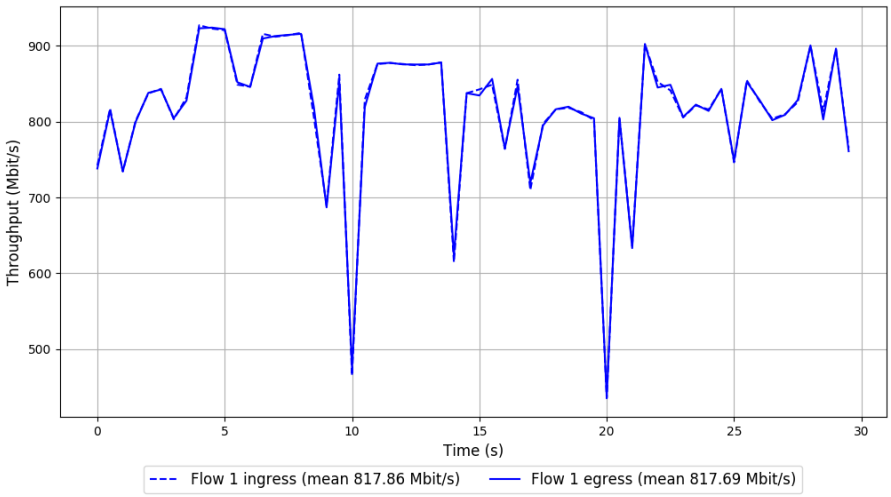
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	794.94	7.50	0.03
TCP Cubic	10	834.28	17.31	0.03
LEDBAT	10	524.26	11.03	0.01
PCC	10	903.87	21.80	0.33
QUIC Cubic	10	85.17	2.34	0.02
SCReAM	10	0.22	2.33	0.00
WebRTC media	10	2.41	2.35	0.02
Sprout	10	50.13	2.57	0.03
TaoVA-100x	10	188.28	2.32	0.01
TCP Vegas	10	508.15	2.42	0.01
Verus	10	358.04	4.45	0.06
Indigo	9	180.62	2.32	0.02
Indigo-calib	10	178.30	2.33	0.02
Indigo-delay	10	187.95	2.35	0.01

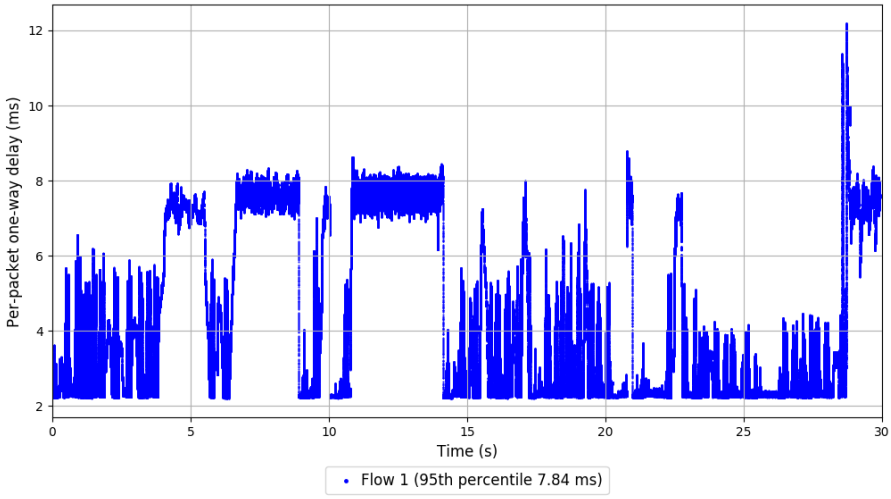
```
Run 1: Statistics of TCP BBR

Start at: 2017-09-21 09:20:52
End at: 2017-09-21 09:21:22
Local clock offset: -0.456 ms
Remote clock offset: -0.524 ms

# Below is generated by plot.py at 2017-09-21 15:39:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 817.69 Mbit/s
95th percentile per-packet one-way delay: 7.838 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 817.69 Mbit/s
95th percentile per-packet one-way delay: 7.838 ms
Loss rate: 0.04%
```

Run 1: Report of TCP BBR — Data Link



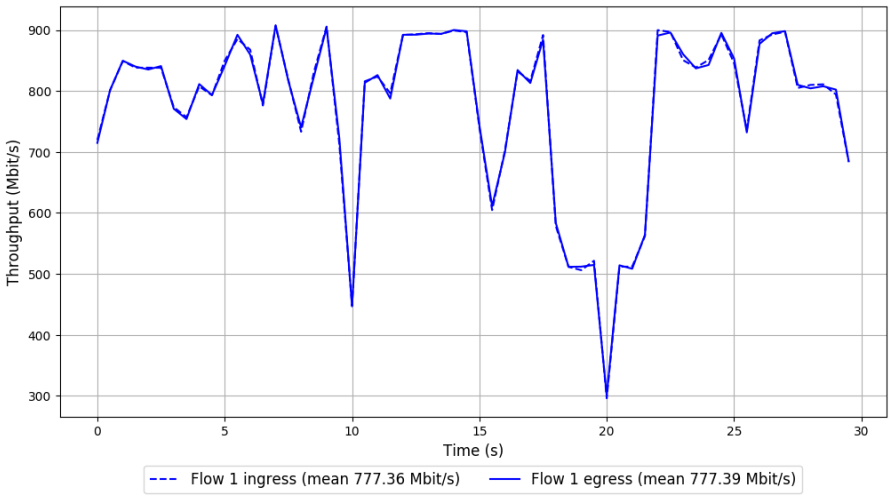


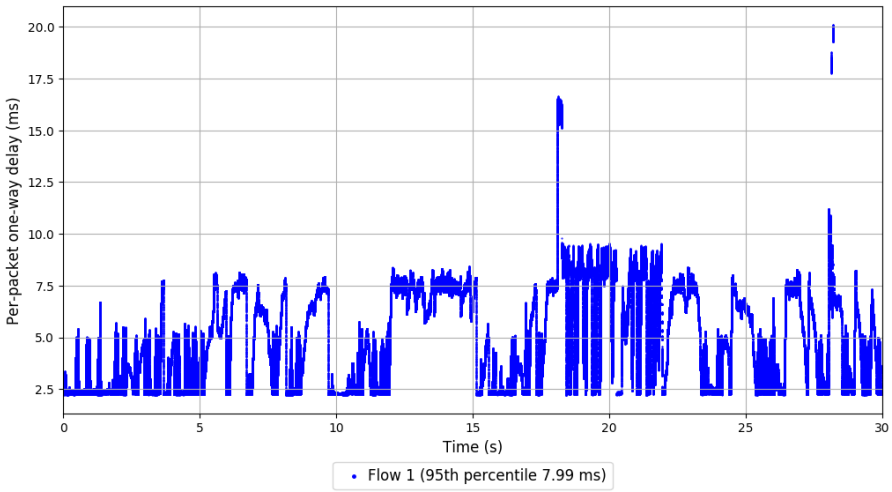
```
Run 2: Statistics of TCP BBR

Start at: 2017-09-21 09:39:16
End at: 2017-09-21 09:39:46
Local clock offset: -0.3 ms
Remote clock offset: -0.271 ms

# Below is generated by plot.py at 2017-09-21 15:39:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 777.39 Mbit/s
95th percentile per-packet one-way delay: 7.989 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 777.39 Mbit/s
95th percentile per-packet one-way delay: 7.989 ms
Loss rate: 0.01%
```

Run 2: Report of TCP BBR — Data Link



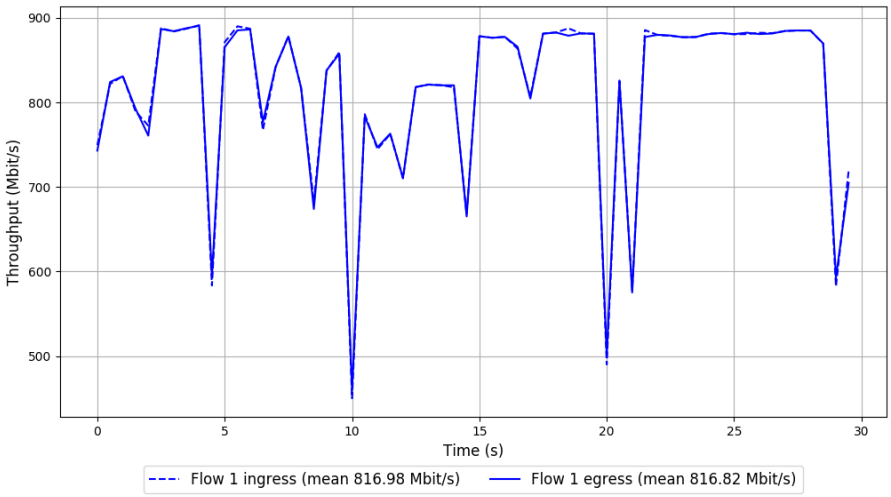


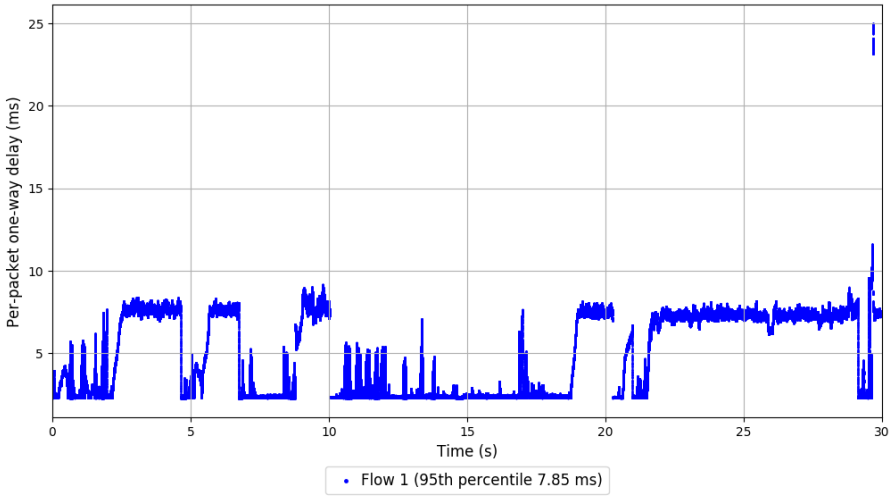
```
Run 3: Statistics of TCP BBR

Start at: 2017-09-21 09:57:21
End at: 2017-09-21 09:57:51
Local clock offset: -0.217 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2017-09-21 15:39:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 816.82 Mbit/s
95th percentile per-packet one-way delay: 7.852 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 816.82 Mbit/s
95th percentile per-packet one-way delay: 7.852 ms
Loss rate: 0.03%
```

Run 3: Report of TCP BBR — Data Link



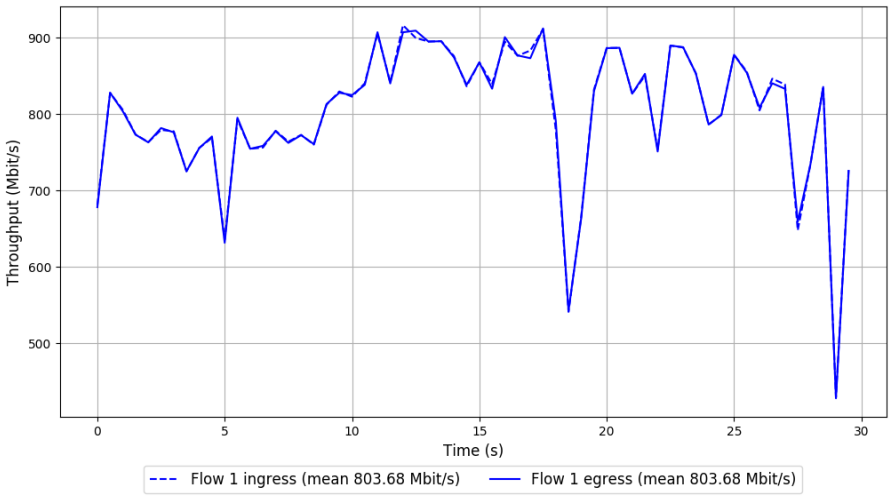


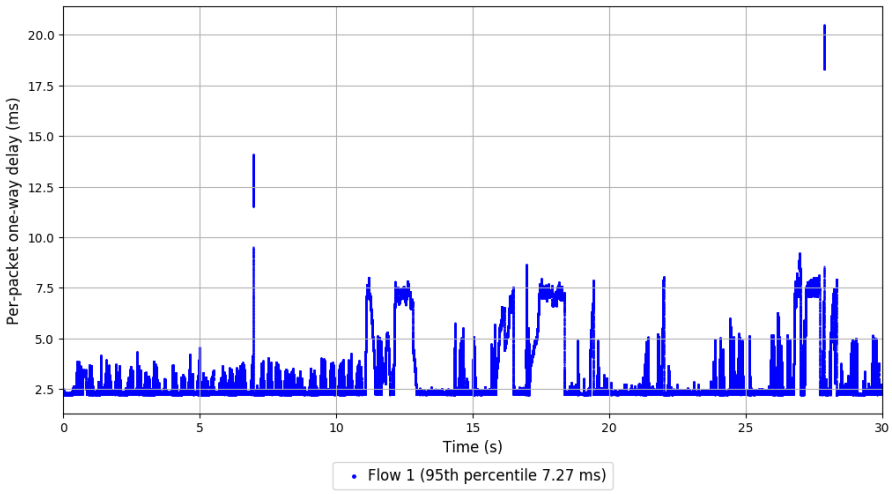
```
Run 4: Statistics of TCP BBR

Start at: 2017-09-21 10:15:34
End at: 2017-09-21 10:16:04
Local clock offset: -0.244 ms
Remote clock offset: 0.094 ms

# Below is generated by plot.py at 2017-09-21 15:39:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 803.68 Mbit/s
95th percentile per-packet one-way delay: 7.273 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 803.68 Mbit/s
95th percentile per-packet one-way delay: 7.273 ms
Loss rate: 0.02%
```

Run 4: Report of TCP BBR — Data Link



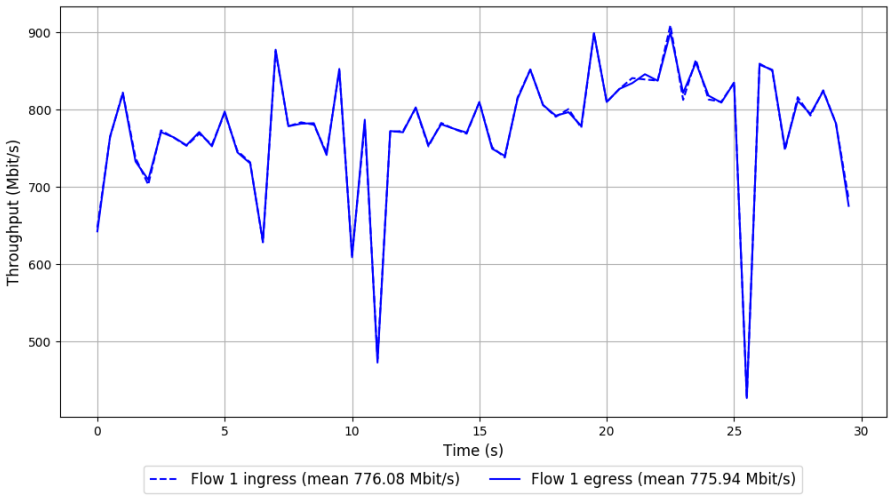


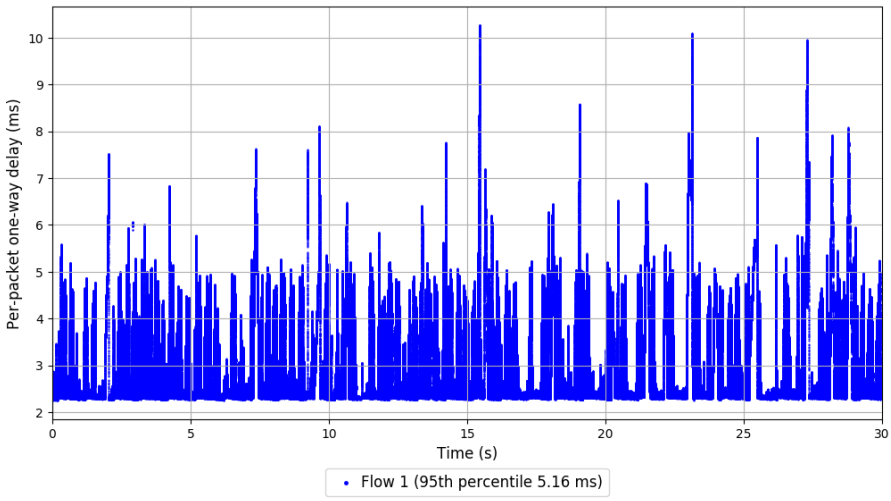
```
Run 5: Statistics of TCP BBR

Start at: 2017-09-21 10:33:38
End at: 2017-09-21 10:34:08
Local clock offset: -0.122 ms
Remote clock offset: 0.275 ms

# Below is generated by plot.py at 2017-09-21 15:39:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 775.94 Mbit/s
95th percentile per-packet one-way delay: 5.157 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 775.94 Mbit/s
95th percentile per-packet one-way delay: 5.157 ms
Loss rate: 0.03%
```

Run 5: Report of TCP BBR — Data Link



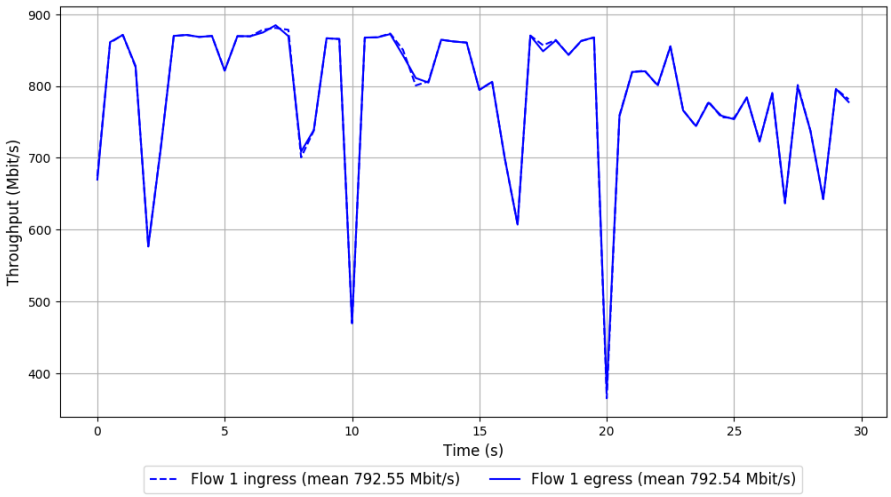


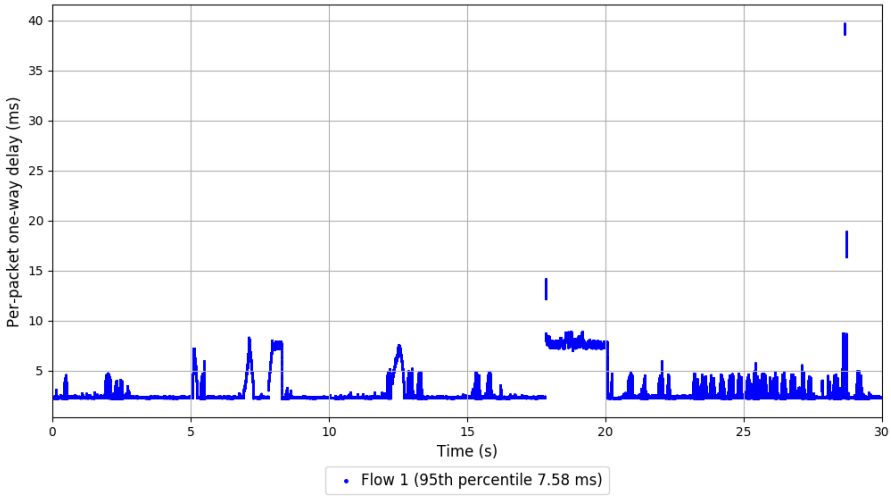
```
Run 6: Statistics of TCP BBR

Start at: 2017-09-21 10:52:03
End at: 2017-09-21 10:52:33
Local clock offset: -0.089 ms
Remote clock offset: 0.404 ms

# Below is generated by plot.py at 2017-09-21 15:39:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 792.54 Mbit/s
95th percentile per-packet one-way delay: 7.576 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 792.54 Mbit/s
95th percentile per-packet one-way delay: 7.576 ms
Loss rate: 0.02%
```

Run 6: Report of TCP BBR — Data Link



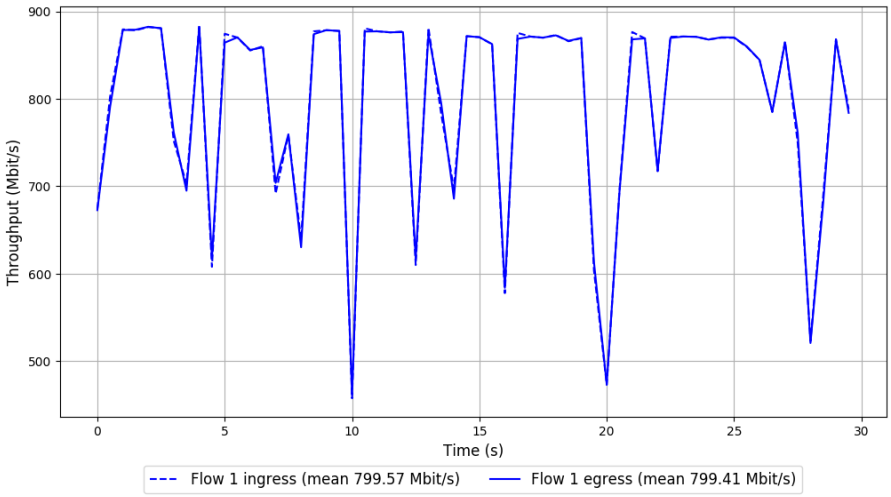


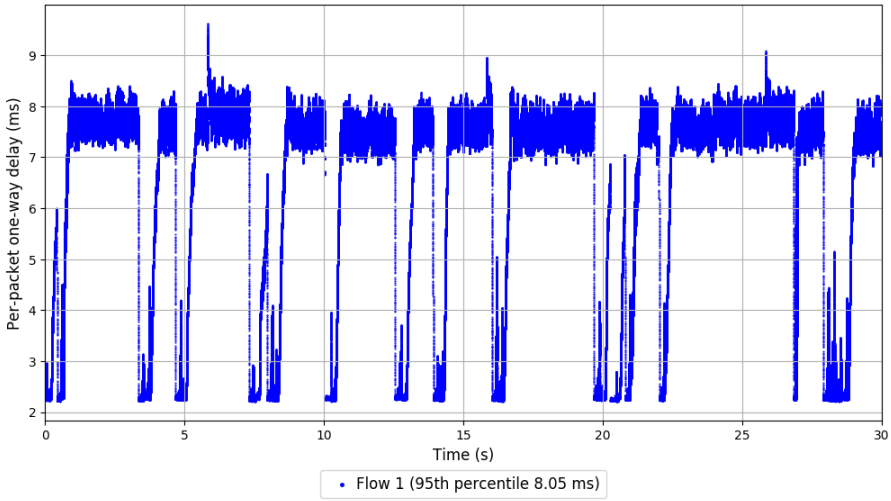
```
Run 7: Statistics of TCP BBR

Start at: 2017-09-21 11:10:29
End at: 2017-09-21 11:10:59
Local clock offset: 0.024 ms
Remote clock offset: 0.424 ms

# Below is generated by plot.py at 2017-09-21 15:39:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 799.41 Mbit/s
95th percentile per-packet one-way delay: 8.049 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 799.41 Mbit/s
95th percentile per-packet one-way delay: 8.049 ms
Loss rate: 0.04%
```

Run 7: Report of TCP BBR — Data Link



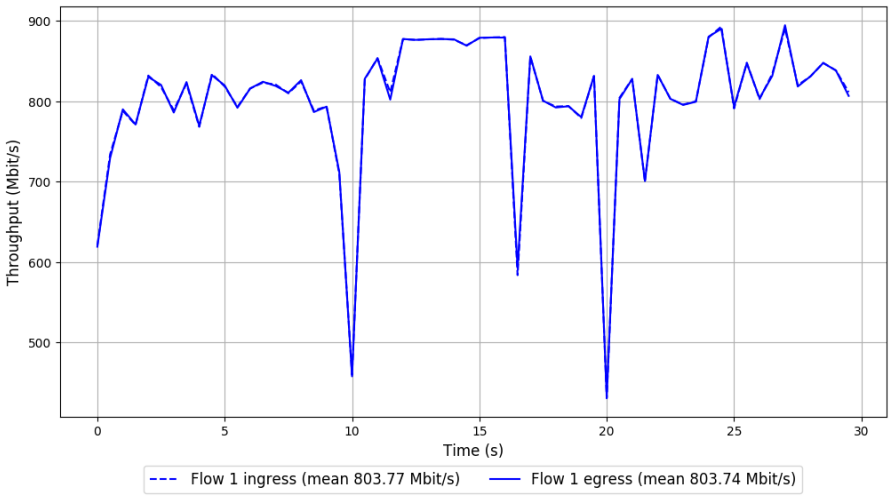


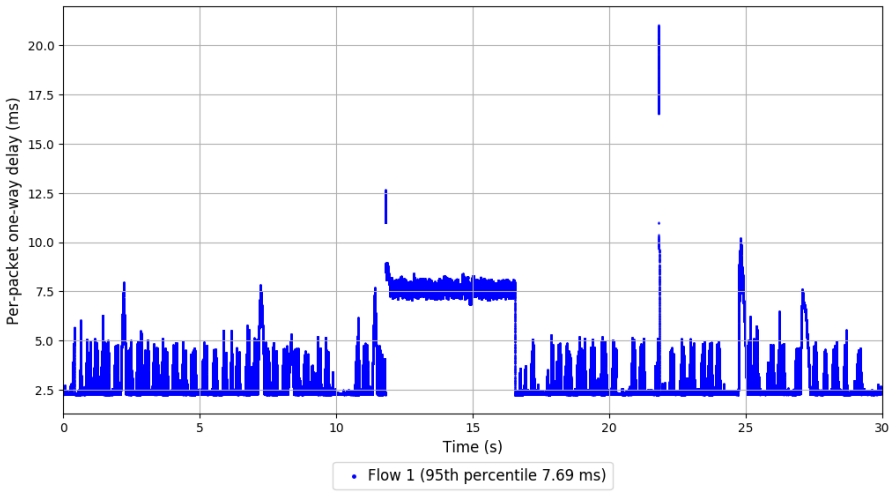
```
Run 8: Statistics of TCP BBR

Start at: 2017-09-21 11:28:39
End at: 2017-09-21 11:29:09
Local clock offset: 0.118 ms
Remote clock offset: 0.415 ms

# Below is generated by plot.py at 2017-09-21 15:39:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 803.74 Mbit/s
95th percentile per-packet one-way delay: 7.694 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 803.74 Mbit/s
95th percentile per-packet one-way delay: 7.694 ms
Loss rate: 0.02%
```

Run 8: Report of TCP BBR — Data Link



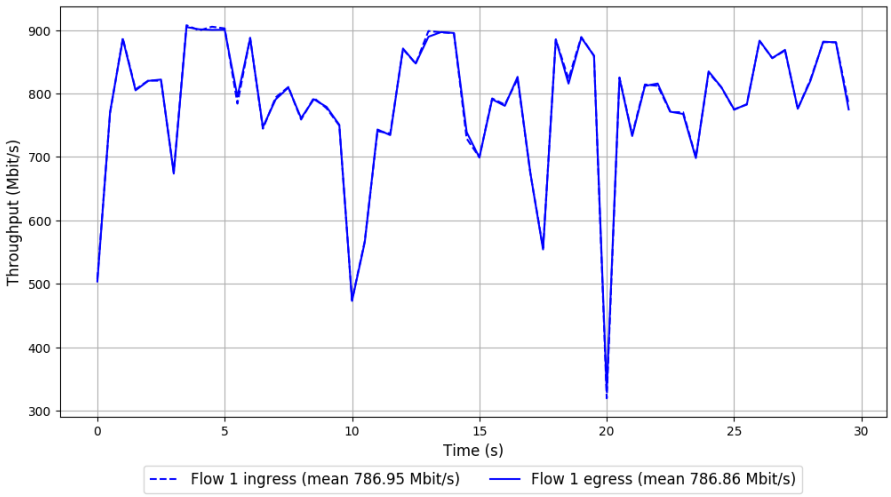


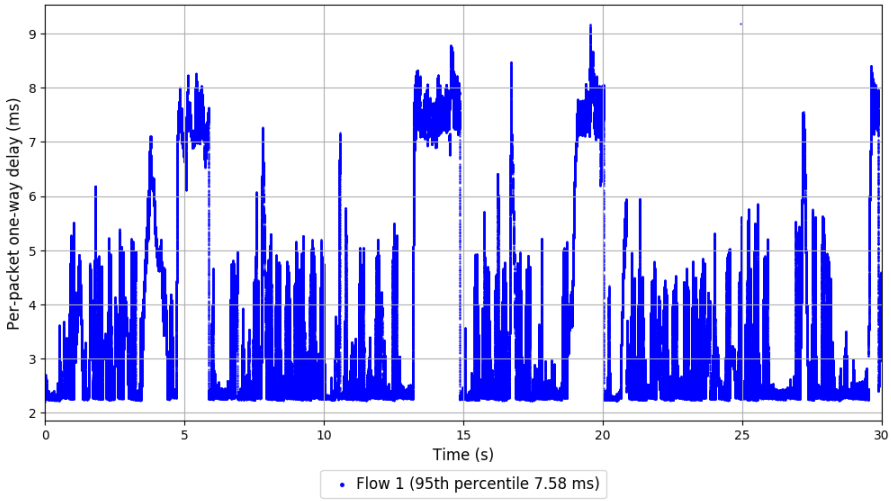
```
Run 9: Statistics of TCP BBR

Start at: 2017-09-21 11:46:49
End at: 2017-09-21 11:47:19
Local clock offset: 0.141 ms
Remote clock offset: 0.351 ms

# Below is generated by plot.py at 2017-09-21 15:50:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 786.86 Mbit/s
95th percentile per-packet one-way delay: 7.580 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 786.86 Mbit/s
95th percentile per-packet one-way delay: 7.580 ms
Loss rate: 0.03%
```

Run 9: Report of TCP BBR — Data Link



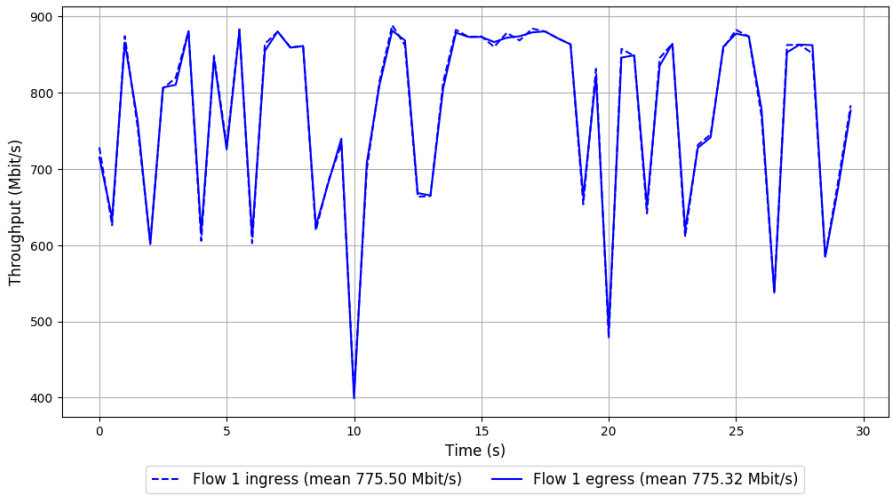


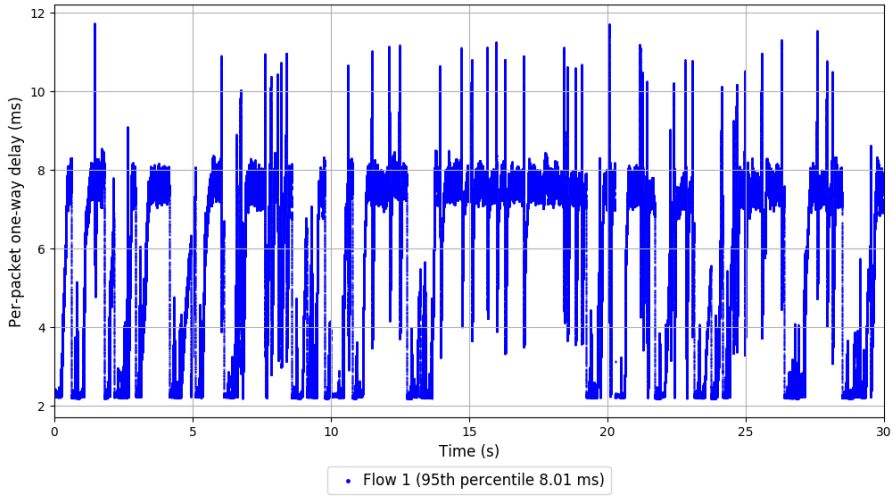
```
Run 10: Statistics of TCP BBR

Start at: 2017-09-21 12:05:12
End at: 2017-09-21 12:05:42
Local clock offset: 0.253 ms
Remote clock offset: 0.402 ms

# Below is generated by plot.py at 2017-09-21 15:50:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 775.32 Mbit/s
95th percentile per-packet one-way delay: 8.006 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 775.32 Mbit/s
95th percentile per-packet one-way delay: 8.006 ms
Loss rate: 0.04%
```

Run 10: Report of TCP BBR — Data Link



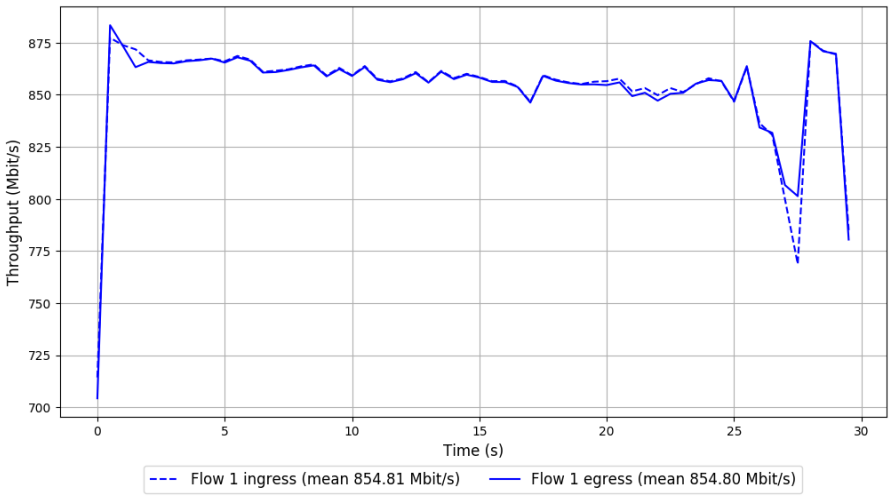


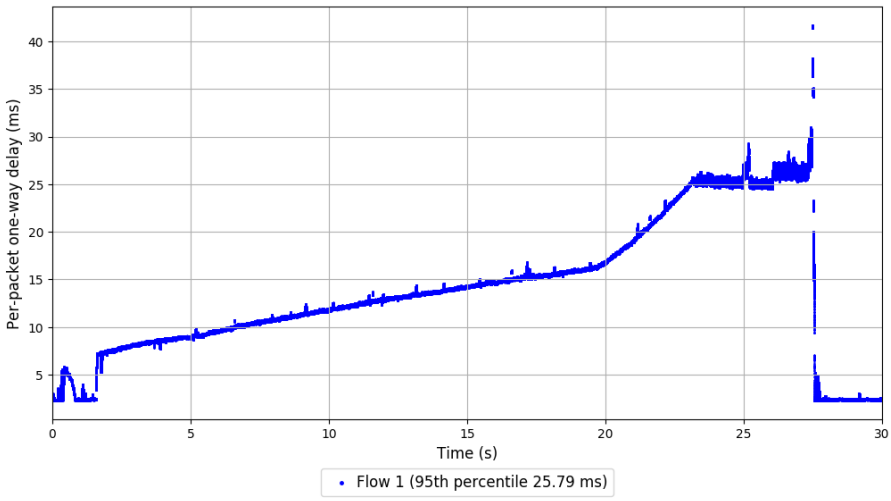
```
Run 1: Statistics of TCP Cubic

Start at: 2017-09-21 09:17:45
End at: 2017-09-21 09:18:15
Local clock offset: -0.37 ms
Remote clock offset: -0.492 ms

# Below is generated by plot.py at 2017-09-21 15:51:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 854.80 Mbit/s
95th percentile per-packet one-way delay: 25.791 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 854.80 Mbit/s
95th percentile per-packet one-way delay: 25.791 ms
Loss rate: 0.02%
```

Run 1: Report of TCP Cubic — Data Link



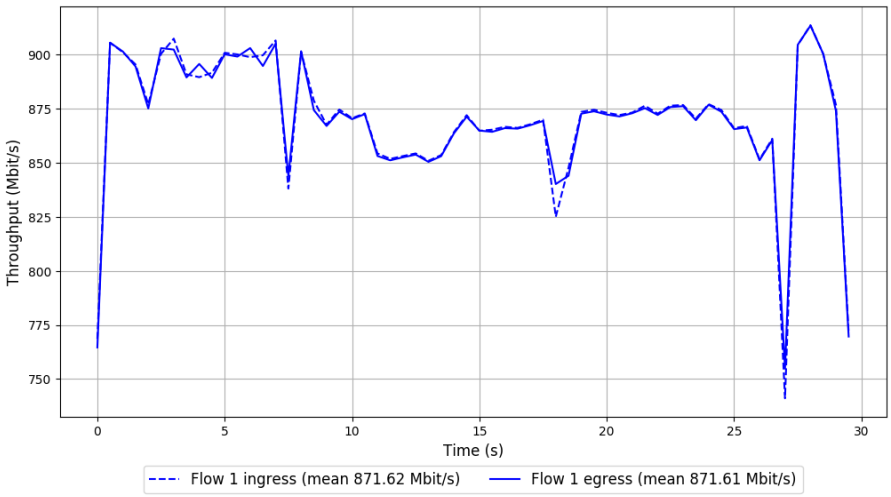


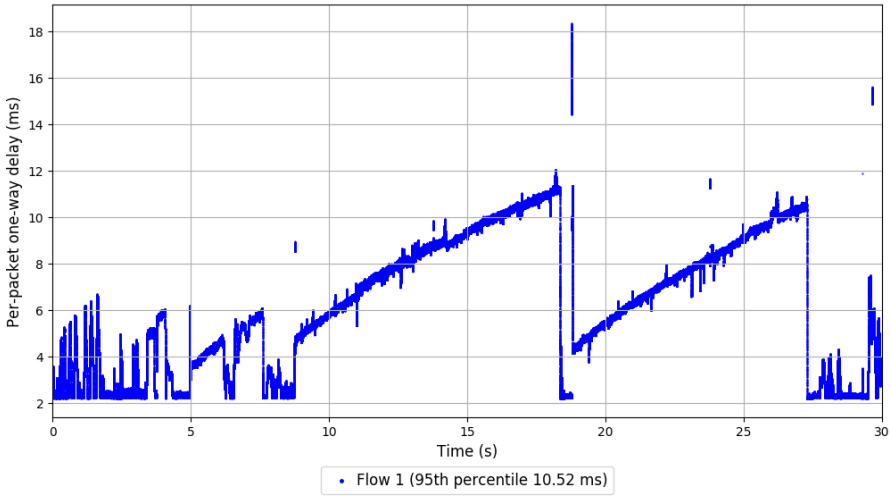
```
Run 2: Statistics of TCP Cubic

Start at: 2017-09-21 09:36:08
End at: 2017-09-21 09:36:38
Local clock offset: -0.327 ms
Remote clock offset: -0.307 ms

# Below is generated by plot.py at 2017-09-21 15:51:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 871.61 Mbit/s
95th percentile per-packet one-way delay: 10.523 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 871.61 Mbit/s
95th percentile per-packet one-way delay: 10.523 ms
Loss rate: 0.02%
```

Run 2: Report of TCP Cubic — Data Link



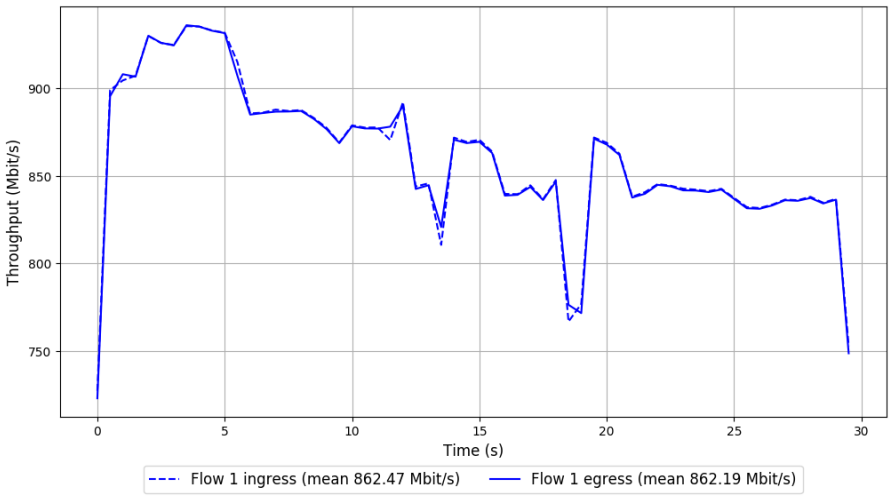


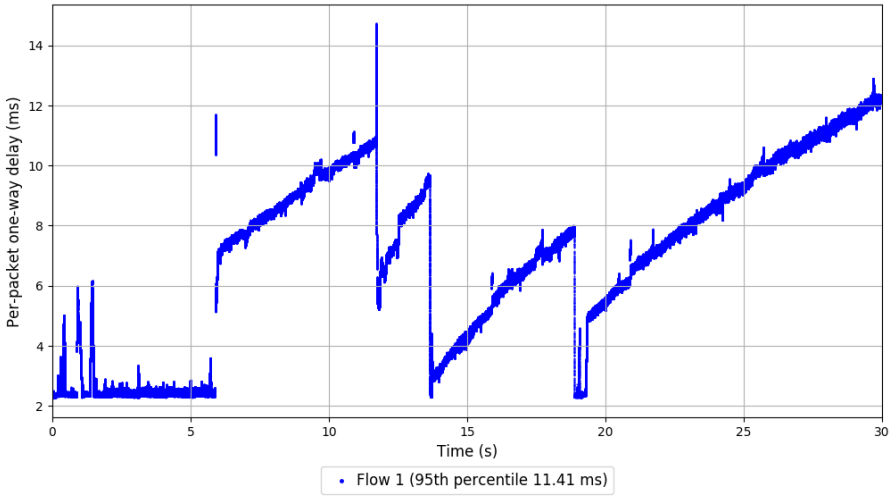
```
Run 3: Statistics of TCP Cubic

Start at: 2017-09-21 09:54:12
End at: 2017-09-21 09:54:42
Local clock offset: -0.243 ms
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2017-09-21 15:51:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 862.19 Mbit/s
95th percentile per-packet one-way delay: 11.410 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 862.19 Mbit/s
95th percentile per-packet one-way delay: 11.410 ms
Loss rate: 0.05%
```

Run 3: Report of TCP Cubic — Data Link



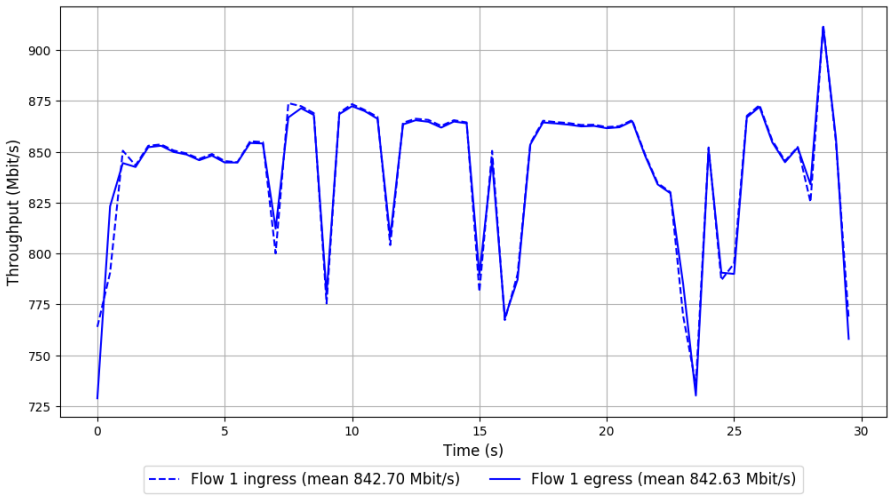


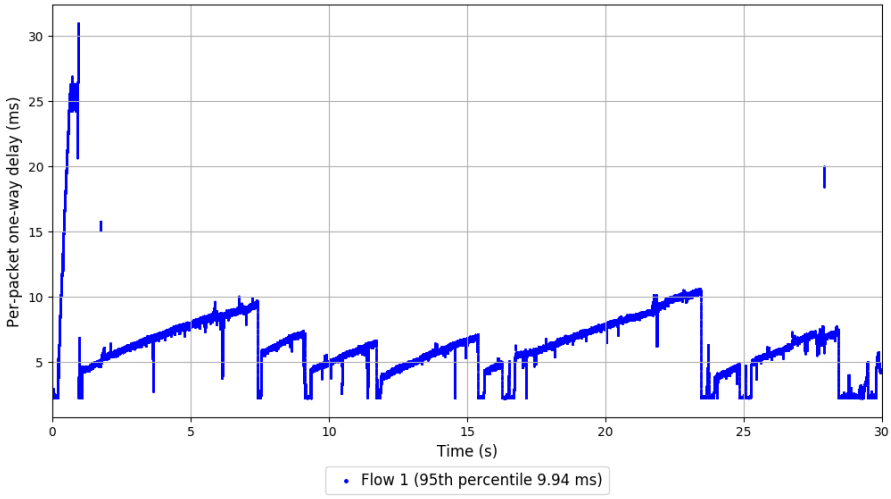
```
Run 4: Statistics of TCP Cubic

Start at: 2017-09-21 10:12:28
End at: 2017-09-21 10:12:58
Local clock offset: -0.254 ms
Remote clock offset: 0.058 ms

# Below is generated by plot.py at 2017-09-21 15:51:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 842.63 Mbit/s
95th percentile per-packet one-way delay: 9.938 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 842.63 Mbit/s
95th percentile per-packet one-way delay: 9.938 ms
Loss rate: 0.02%
```

Run 4: Report of TCP Cubic — Data Link



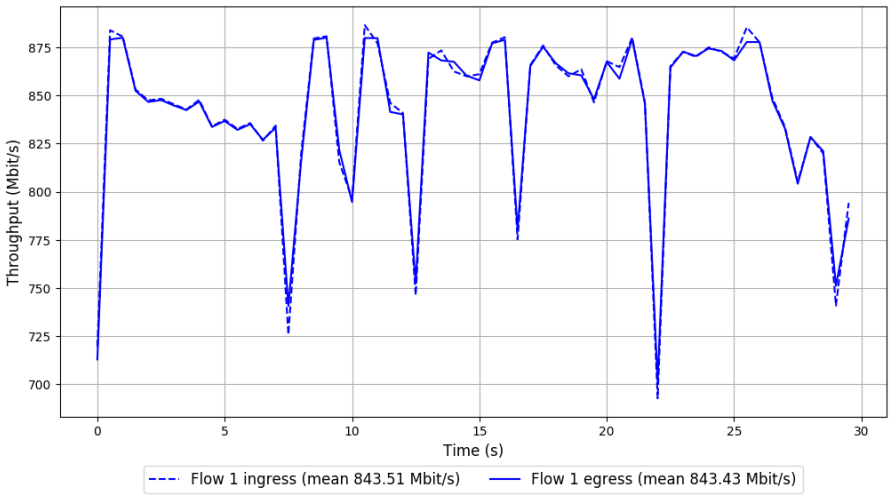


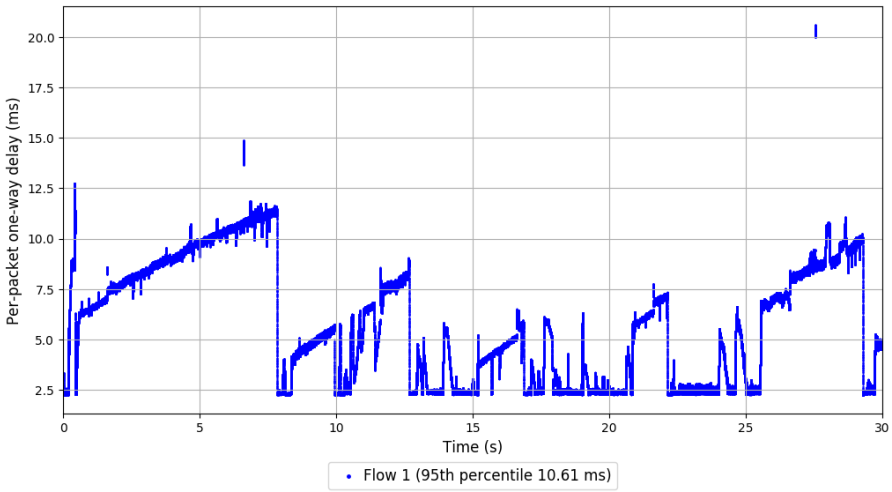
```
Run 5: Statistics of TCP Cubic

Start at: 2017-09-21 10:30:29
End at: 2017-09-21 10:30:59
Local clock offset: -0.14 ms
Remote clock offset: 0.252 ms

# Below is generated by plot.py at 2017-09-21 15:51:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 843.43 Mbit/s
95th percentile per-packet one-way delay: 10.612 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 843.43 Mbit/s
95th percentile per-packet one-way delay: 10.612 ms
Loss rate: 0.02%
```

Run 5: Report of TCP Cubic — Data Link



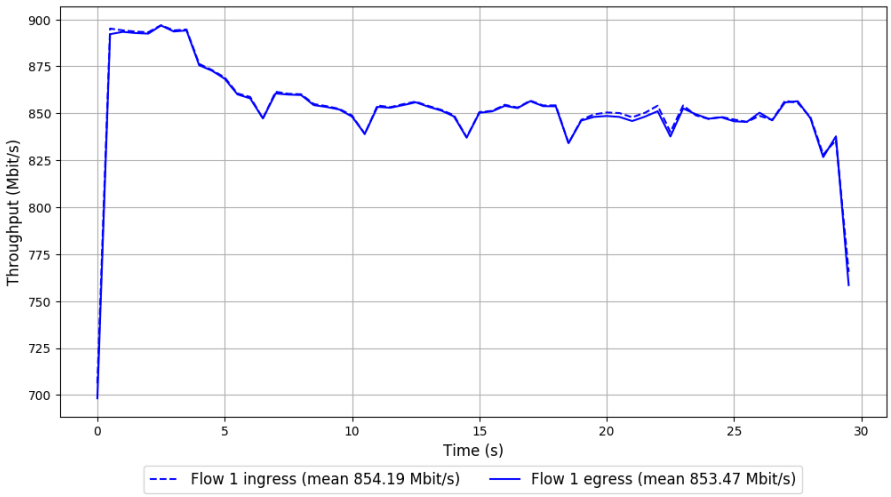


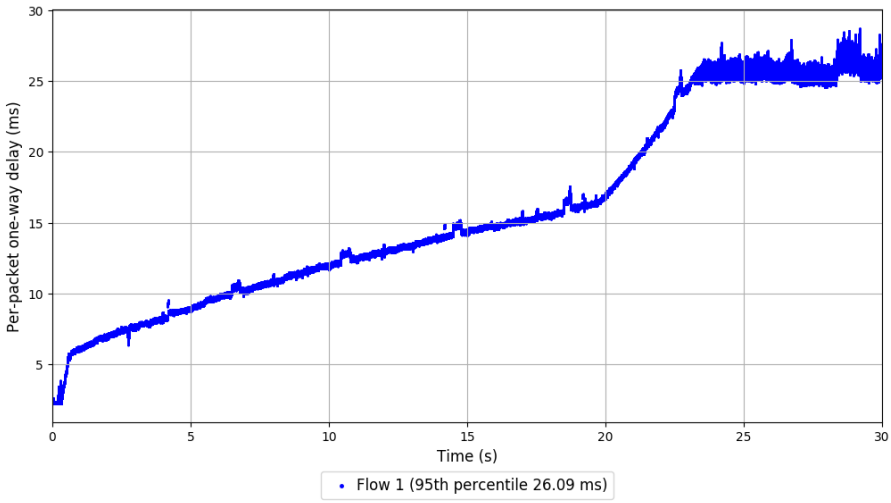
```
Run 6: Statistics of TCP Cubic

Start at: 2017-09-21 10:48:55
End at: 2017-09-21 10:49:25
Local clock offset: -0.073 ms
Remote clock offset: 0.407 ms

# Below is generated by plot.py at 2017-09-21 15:51:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 853.47 Mbit/s
95th percentile per-packet one-way delay: 26.092 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 853.47 Mbit/s
95th percentile per-packet one-way delay: 26.092 ms
Loss rate: 0.10%
```

Run 6: Report of TCP Cubic — Data Link



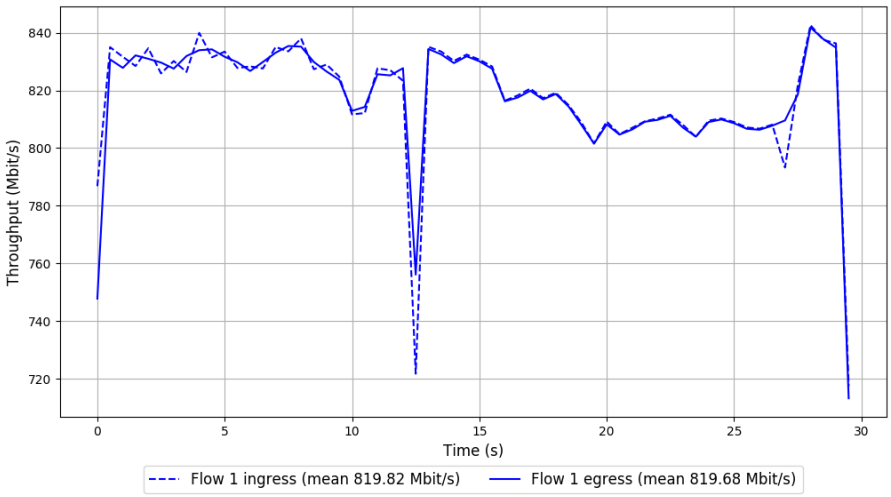


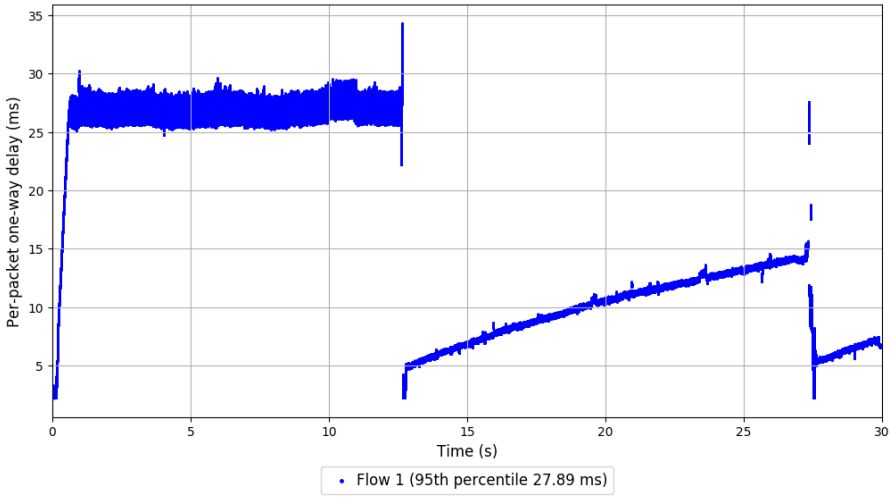
```
Run 7: Statistics of TCP Cubic

Start at: 2017-09-21 11:07:22
End at: 2017-09-21 11:07:52
Local clock offset: 0.018 ms
Remote clock offset: 0.425 ms

# Below is generated by plot.py at 2017-09-21 16:01:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 819.68 Mbit/s
95th percentile per-packet one-way delay: 27.886 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 819.68 Mbit/s
95th percentile per-packet one-way delay: 27.886 ms
Loss rate: 0.03%
```

Run 7: Report of TCP Cubic — Data Link



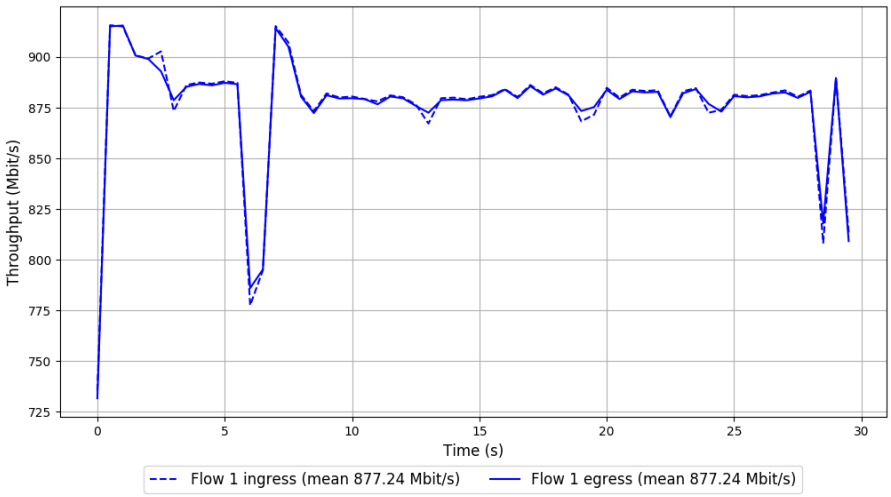


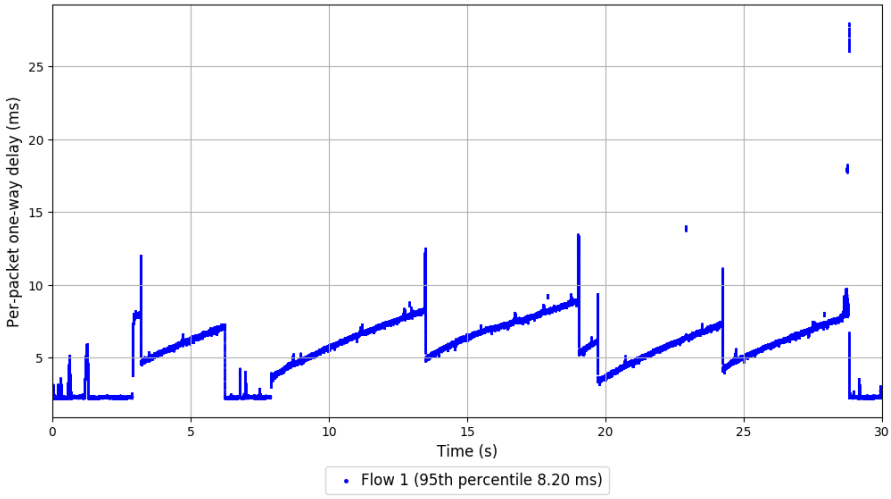
```
Run 8: Statistics of TCP Cubic

Start at: 2017-09-21 11:25:33
End at: 2017-09-21 11:26:03
Local clock offset: 0.061 ms
Remote clock offset: 0.41 ms

# Below is generated by plot.py at 2017-09-21 16:01:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 877.24 Mbit/s
95th percentile per-packet one-way delay: 8.196 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 877.24 Mbit/s
95th percentile per-packet one-way delay: 8.196 ms
Loss rate: 0.02%
```

Run 8: Report of TCP Cubic — Data Link



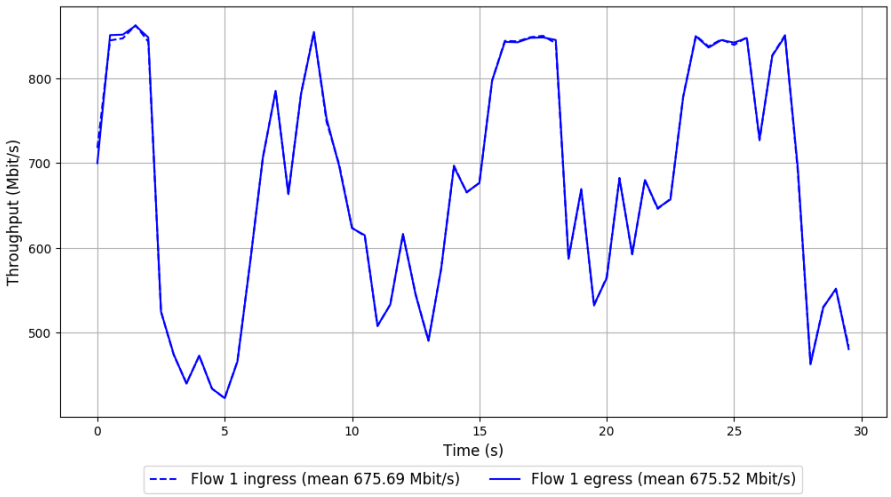


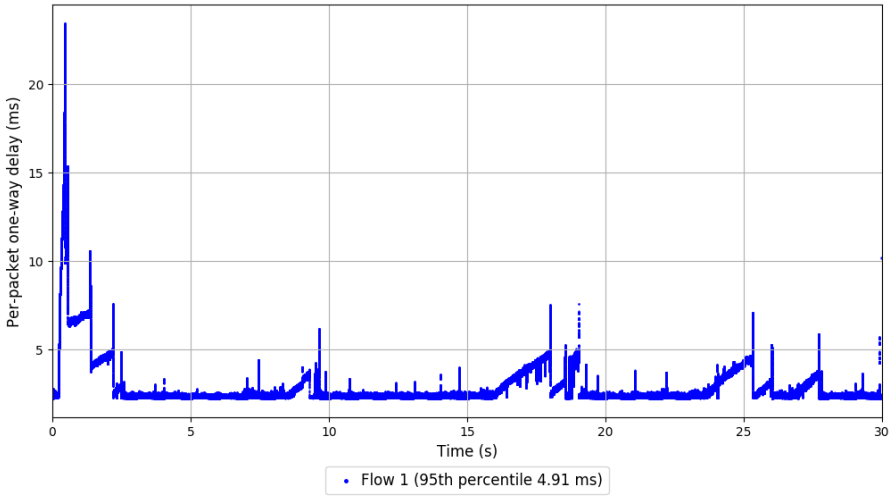
```
Run 9: Statistics of TCP Cubic

Start at: 2017-09-21 11:43:47
End at: 2017-09-21 11:44:17
Local clock offset: 0.159 ms
Remote clock offset: 0.378 ms

# Below is generated by plot.py at 2017-09-21 16:01:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 675.52 Mbit/s
95th percentile per-packet one-way delay: 4.914 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 675.52 Mbit/s
95th percentile per-packet one-way delay: 4.914 ms
Loss rate: 0.01%
```

Run 9: Report of TCP Cubic — Data Link



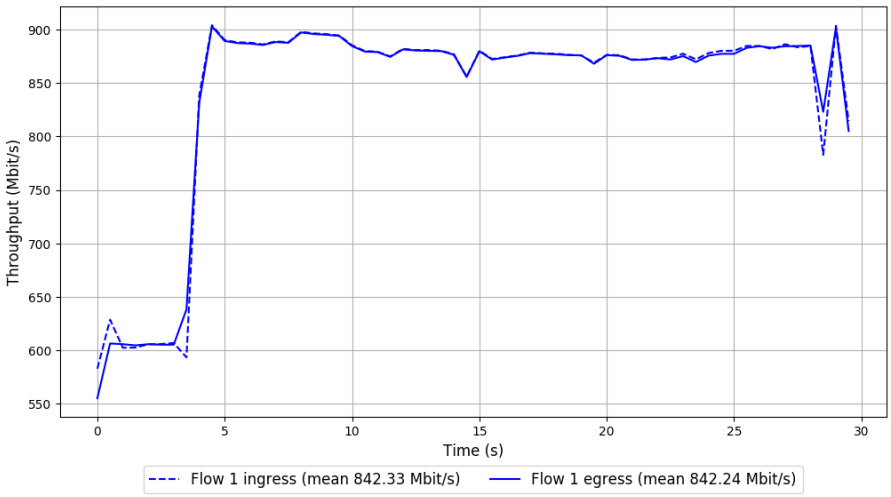


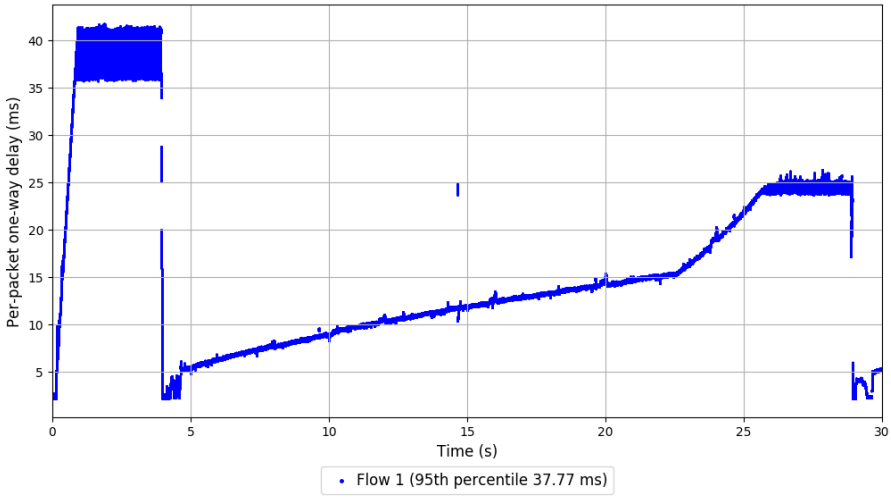
```
Run 10: Statistics of TCP Cubic

Start at: 2017-09-21 12:02:06
End at: 2017-09-21 12:02:36
Local clock offset: 0.283 ms
Remote clock offset: 0.423 ms

# Below is generated by plot.py at 2017-09-21 16:02:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 842.24 Mbit/s
95th percentile per-packet one-way delay: 37.770 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 842.24 Mbit/s
95th percentile per-packet one-way delay: 37.770 ms
Loss rate: 0.03%
```

Run 10: Report of TCP Cubic — Data Link



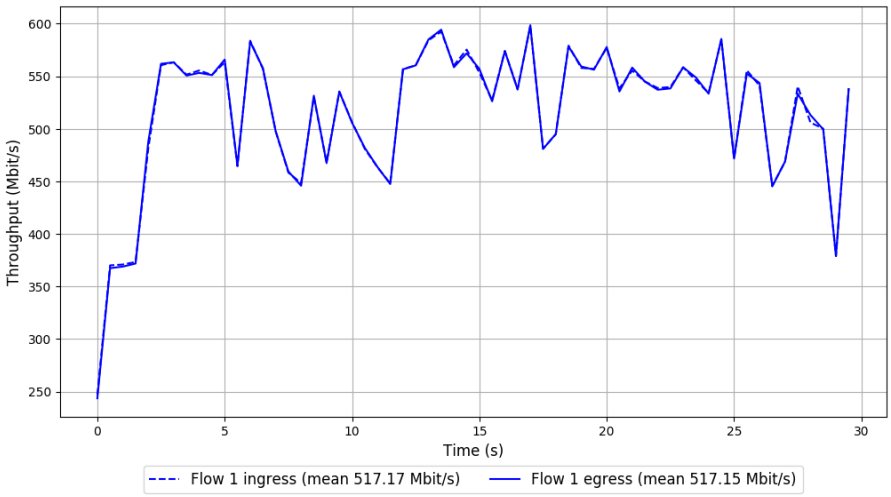


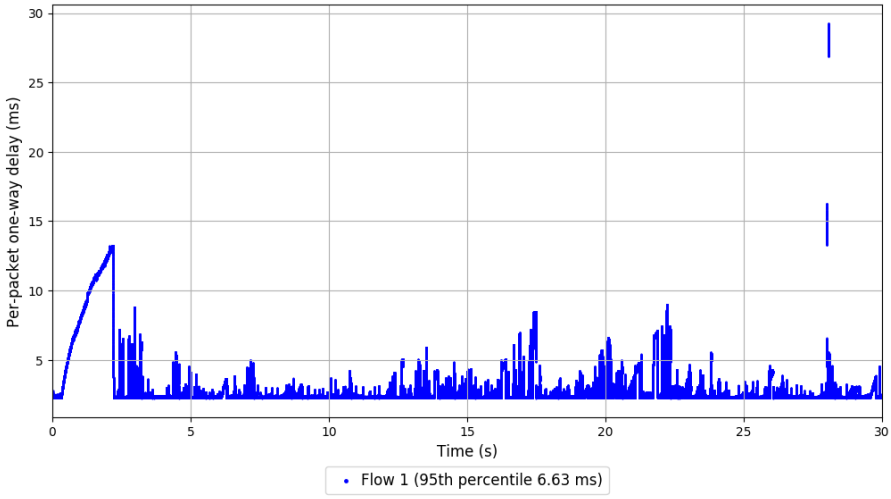
```
Run 1: Statistics of LEDBAT

Start at: 2017-09-21 09:19:22
End at: 2017-09-21 09:19:52
Local clock offset: -0.348 ms
Remote clock offset: -0.467 ms

# Below is generated by plot.py at 2017-09-21 16:02:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 517.15 Mbit/s
95th percentile per-packet one-way delay: 6.634 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 517.15 Mbit/s
95th percentile per-packet one-way delay: 6.634 ms
Loss rate: 0.02%
```

Run 1: Report of LEDBAT — Data Link



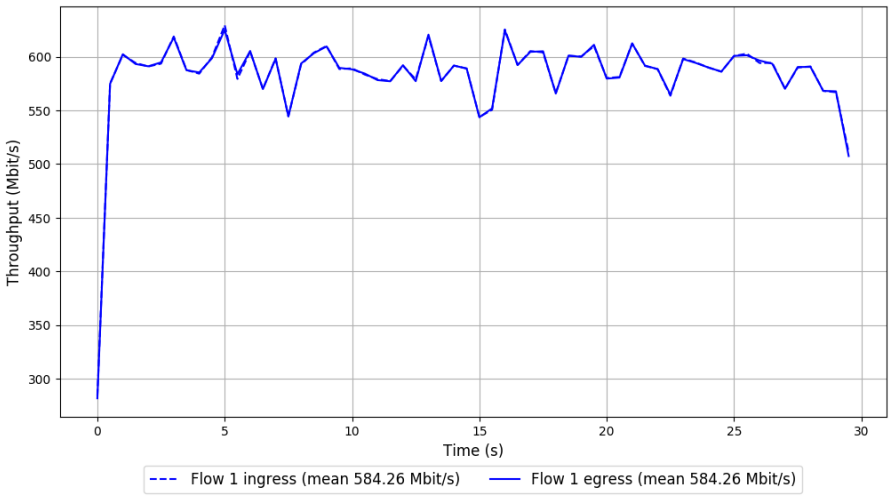


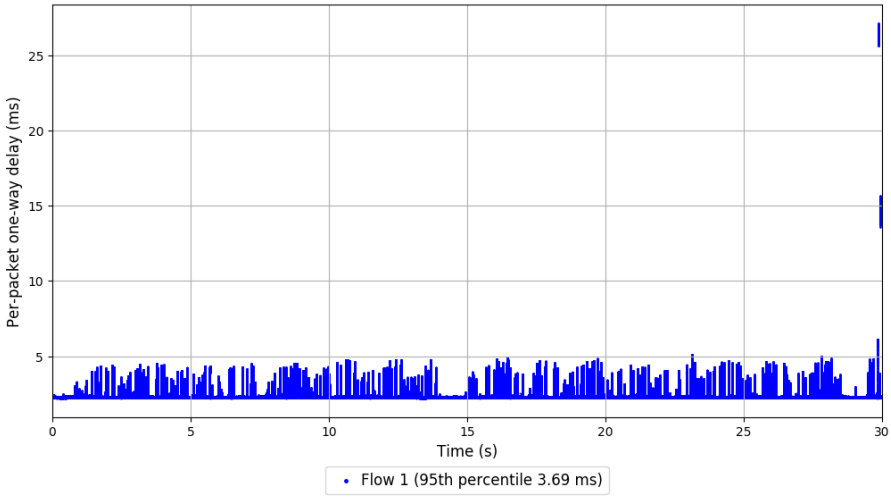
```
Run 2: Statistics of LEDBAT

Start at: 2017-09-21 09:37:46
End at: 2017-09-21 09:38:16
Local clock offset: -0.304 ms
Remote clock offset: -0.279 ms

# Below is generated by plot.py at 2017-09-21 16:02:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 584.26 Mbit/s
95th percentile per-packet one-way delay: 3.693 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 584.26 Mbit/s
95th percentile per-packet one-way delay: 3.693 ms
Loss rate: 0.02%
```

Run 2: Report of LEDBAT — Data Link



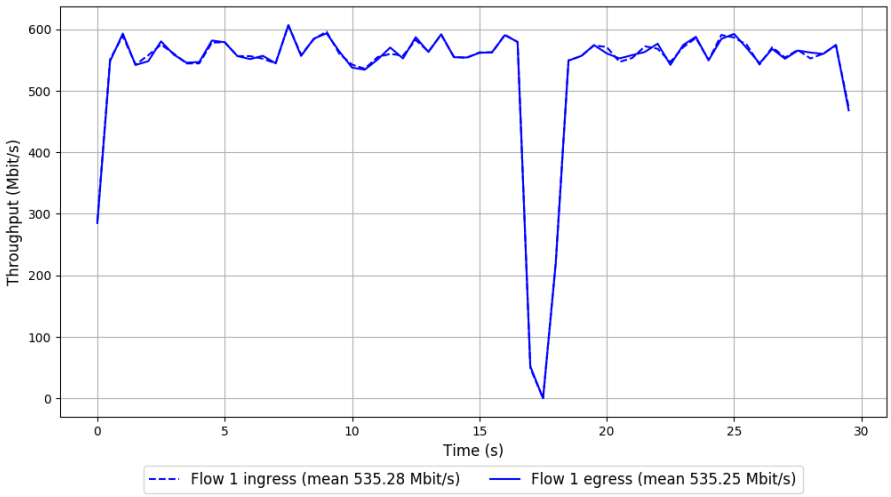


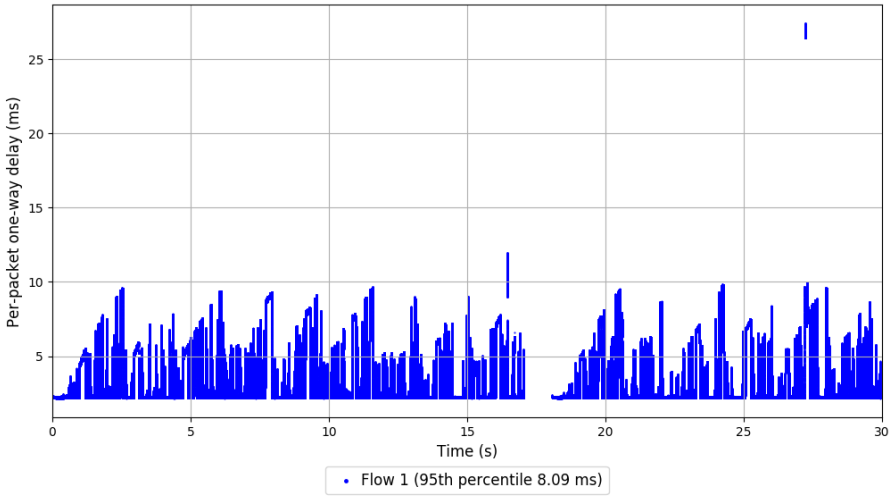
```
Run 3: Statistics of LEDBAT

Start at: 2017-09-21 09:55:50
End at: 2017-09-21 09:56:20
Local clock offset: -0.314 ms
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2017-09-21 16:02:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 535.25 Mbit/s
95th percentile per-packet one-way delay: 8.085 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 535.25 Mbit/s
95th percentile per-packet one-way delay: 8.085 ms
Loss rate: 0.02%
```

Run 3: Report of LEDBAT — Data Link



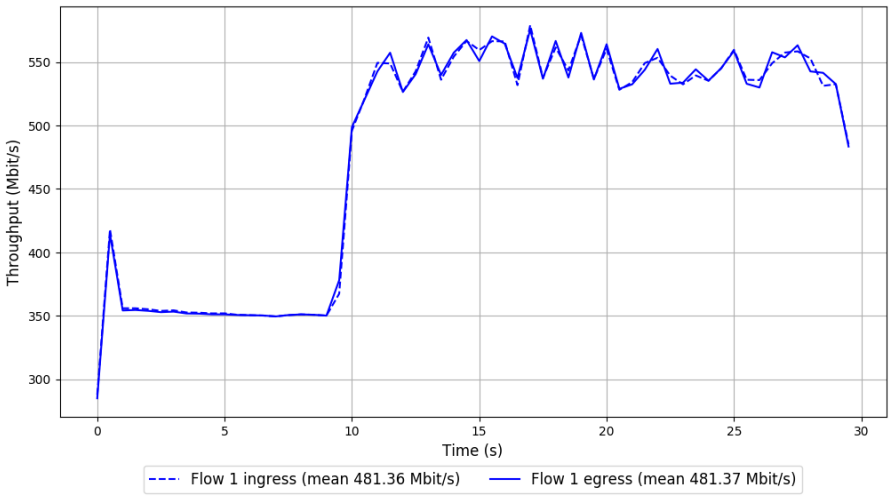


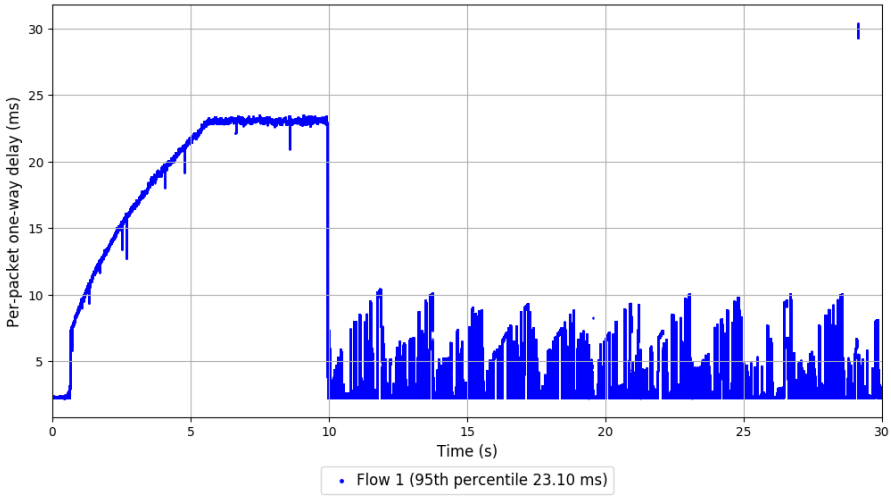
```
Run 4: Statistics of LEDBAT

Start at: 2017-09-21 10:14:05
End at: 2017-09-21 10:14:35
Local clock offset: -0.31 ms
Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2017-09-21 16:02:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 481.37 Mbit/s
95th percentile per-packet one-way delay: 23.096 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 481.37 Mbit/s
95th percentile per-packet one-way delay: 23.096 ms
Loss rate: 0.01%
```

Run 4: Report of LEDBAT — Data Link



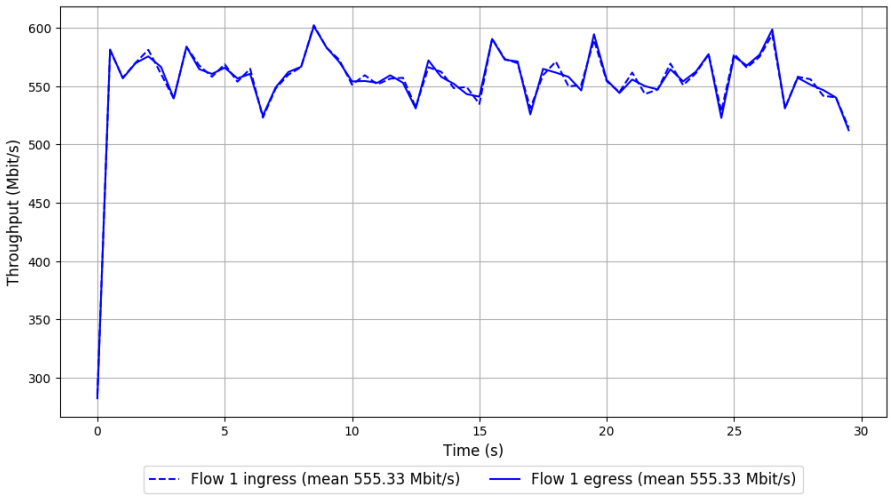


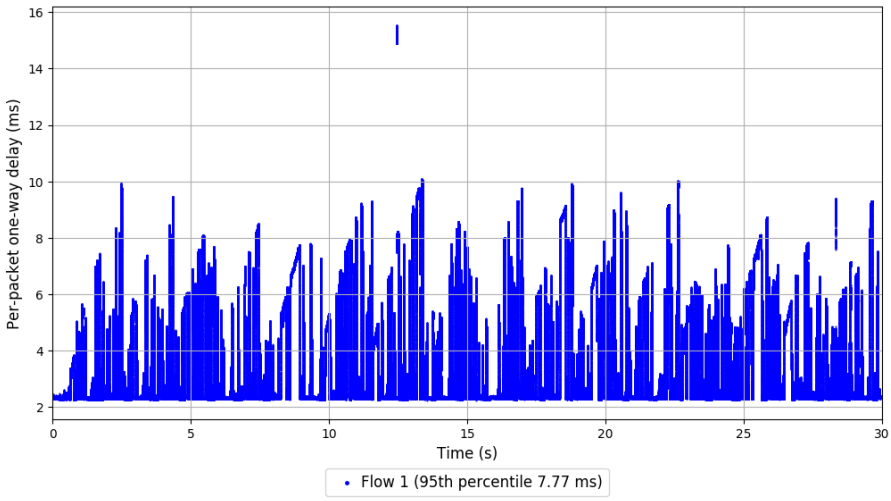
```
Run 5: Statistics of LEDBAT

Start at: 2017-09-21 10:32:07
End at: 2017-09-21 10:32:37
Local clock offset: -0.113 ms
Remote clock offset: 0.266 ms

# Below is generated by plot.py at 2017-09-21 16:05:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 555.33 Mbit/s
95th percentile per-packet one-way delay: 7.766 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 555.33 Mbit/s
95th percentile per-packet one-way delay: 7.766 ms
Loss rate: 0.01%
```

Run 5: Report of LEDBAT — Data Link



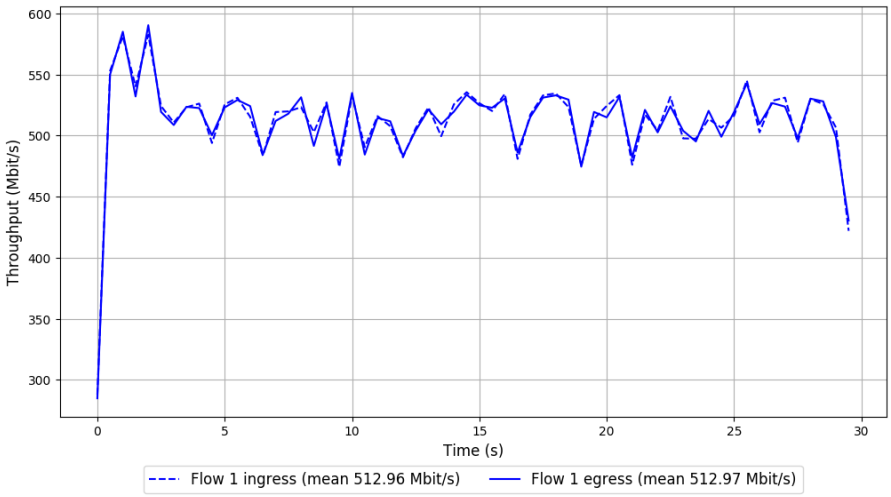


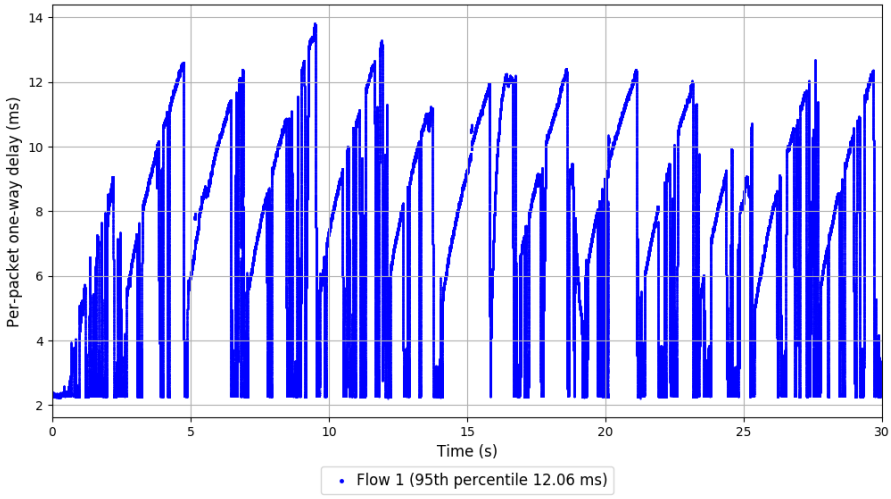
```
Run 6: Statistics of LEDBAT

Start at: 2017-09-21 10:50:32
End at: 2017-09-21 10:51:02
Local clock offset: -0.061 ms
Remote clock offset: 0.396 ms

# Below is generated by plot.py at 2017-09-21 16:05:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 512.97 Mbit/s
95th percentile per-packet one-way delay: 12.061 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 512.97 Mbit/s
95th percentile per-packet one-way delay: 12.061 ms
Loss rate: 0.01%
```

Run 6: Report of LEDBAT — Data Link



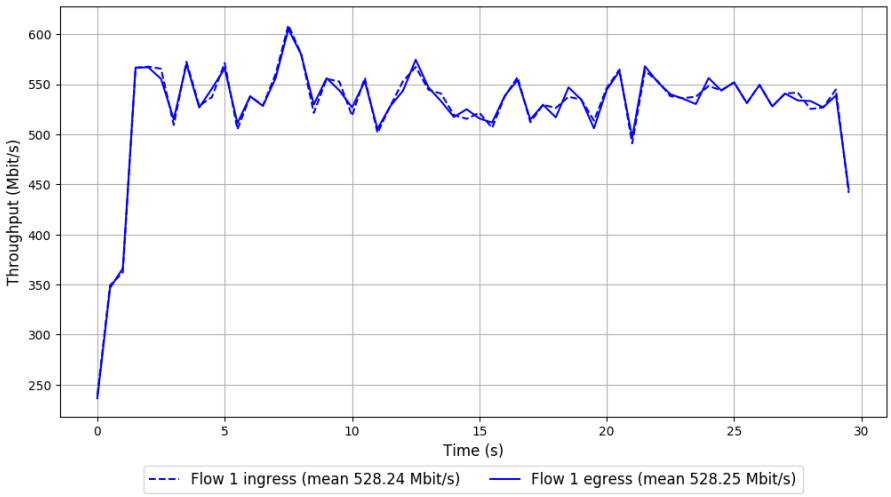


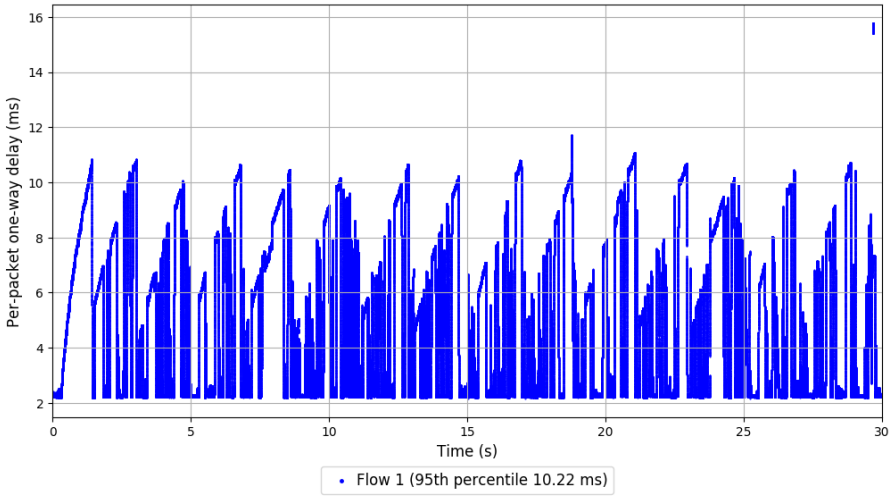
```
Run 7: Statistics of LEDBAT

Start at: 2017-09-21 11:08:58
End at: 2017-09-21 11:09:28
Local clock offset: -0.04 ms
Remote clock offset: 0.38 ms

# Below is generated by plot.py at 2017-09-21 16:06:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 528.25 Mbit/s
95th percentile per-packet one-way delay: 10.224 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 528.25 Mbit/s
95th percentile per-packet one-way delay: 10.224 ms
Loss rate: 0.01%
```

Run 7: Report of LEDBAT — Data Link



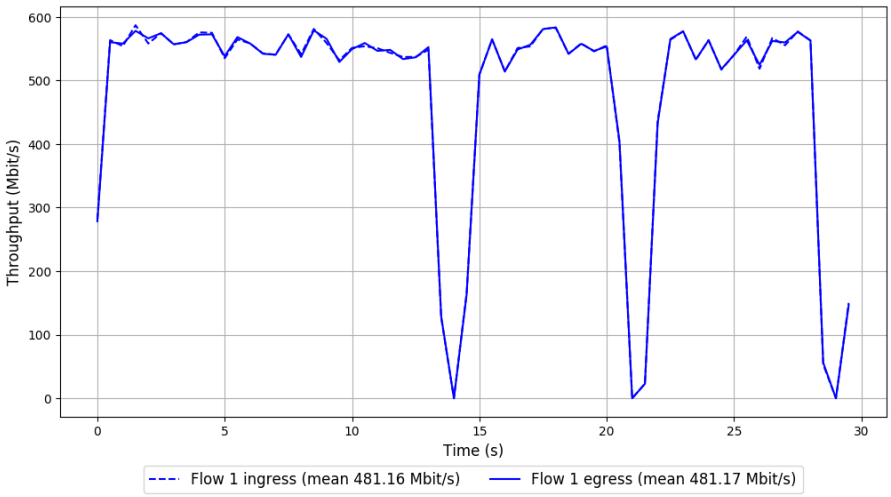


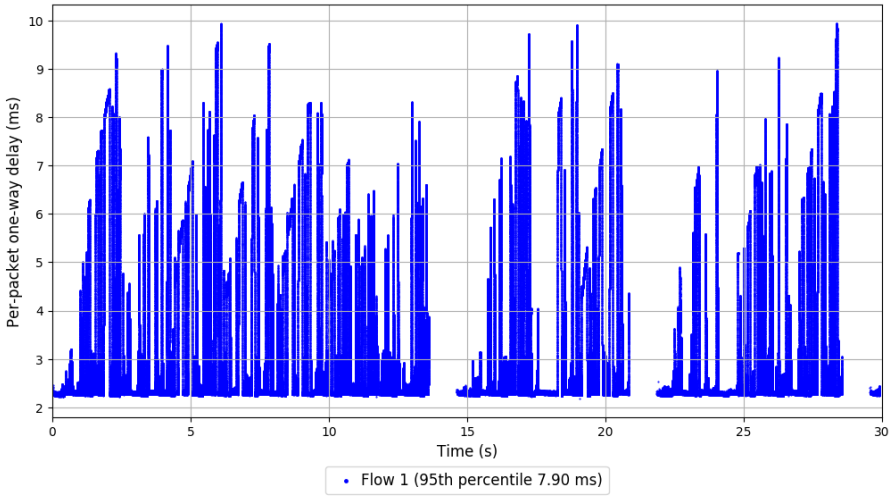
```
Run 8: Statistics of LEDBAT

Start at: 2017-09-21 11:27:11
End at: 2017-09-21 11:27:41
Local clock offset: 0.117 ms
Remote clock offset: 0.413 ms

# Below is generated by plot.py at 2017-09-21 16:06:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 481.17 Mbit/s
95th percentile per-packet one-way delay: 7.900 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 481.17 Mbit/s
95th percentile per-packet one-way delay: 7.900 ms
Loss rate: 0.01%
```

Run 8: Report of LEDBAT — Data Link



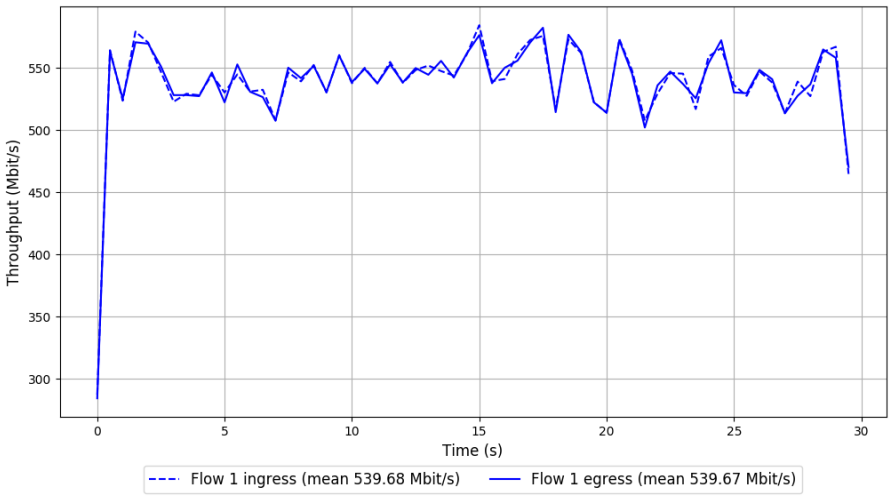


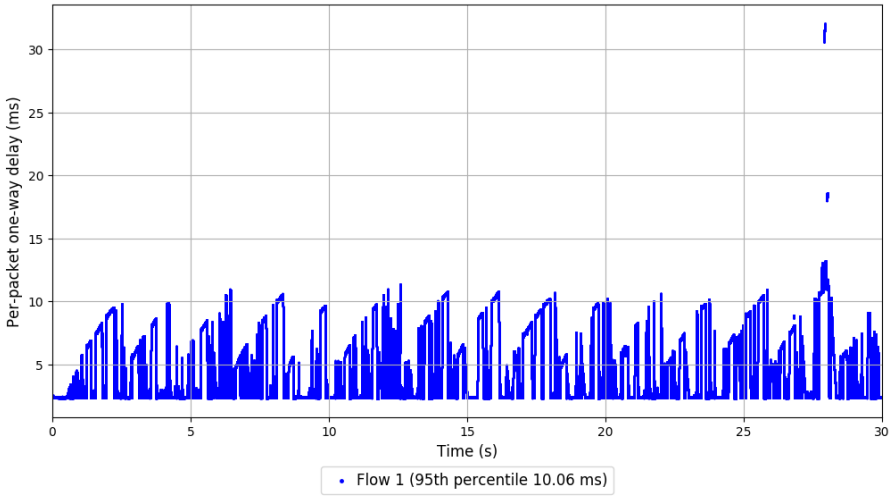
```
Run 9: Statistics of LEDBAT

Start at: 2017-09-21 11:45:17
End at: 2017-09-21 11:45:47
Local clock offset: 0.169 ms
Remote clock offset: 0.29 ms

# Below is generated by plot.py at 2017-09-21 16:07:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 539.67 Mbit/s
95th percentile per-packet one-way delay: 10.060 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 539.67 Mbit/s
95th percentile per-packet one-way delay: 10.060 ms
Loss rate: 0.02%
```

Run 9: Report of LEDBAT — Data Link



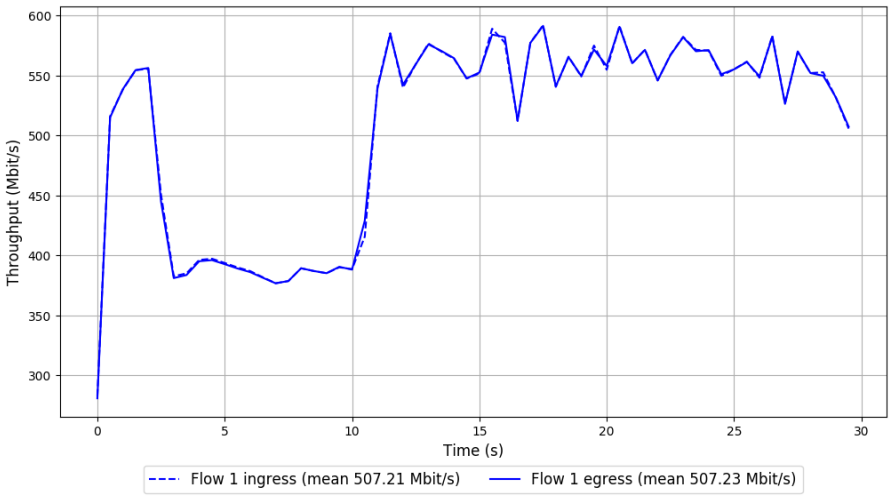


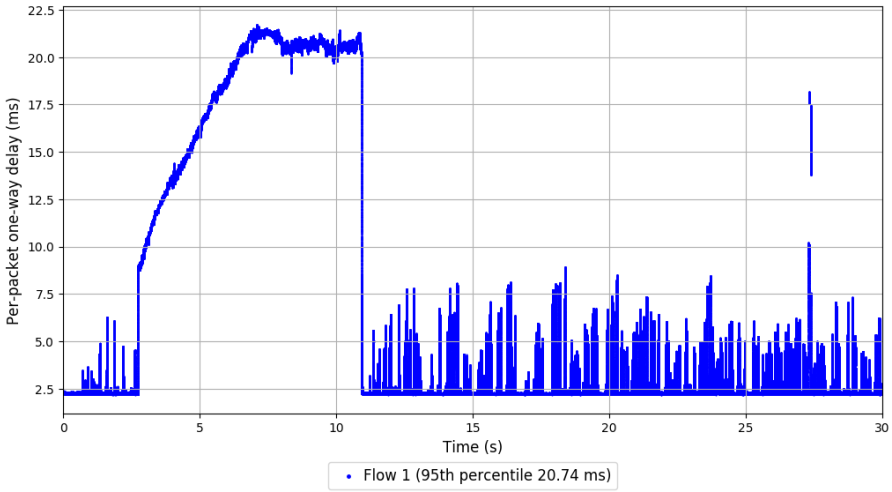
```
Run 10: Statistics of LEDBAT

Start at: 2017-09-21 12:03:43
End at: 2017-09-21 12:04:13
Local clock offset: 0.247 ms
Remote clock offset: 0.41 ms

# Below is generated by plot.py at 2017-09-21 16:07:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 507.23 Mbit/s
95th percentile per-packet one-way delay: 20.743 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 507.23 Mbit/s
95th percentile per-packet one-way delay: 20.743 ms
Loss rate: 0.01%
```

Run 10: Report of LEDBAT — Data Link



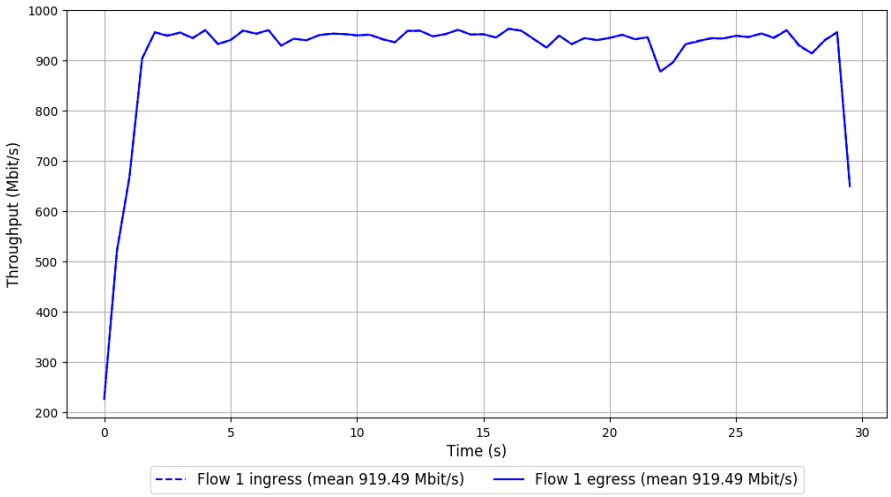


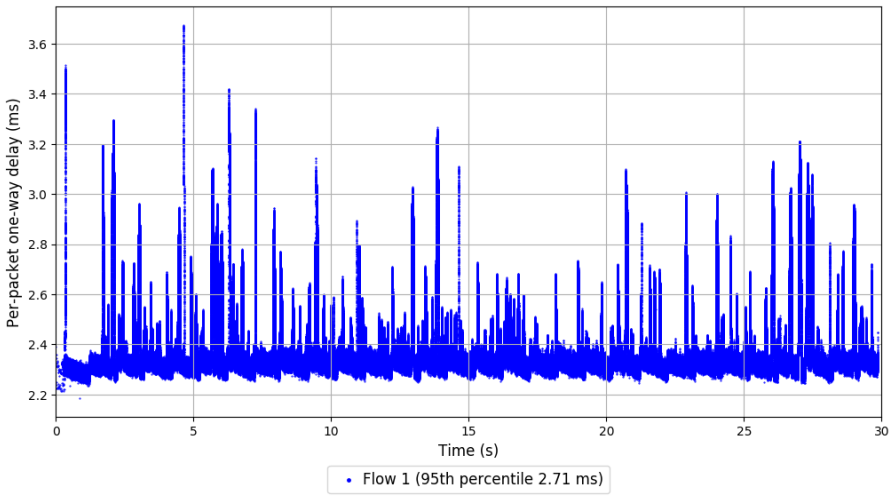
```
Run 1: Statistics of PCC

Start at: 2017-09-21 09:26:15
End at: 2017-09-21 09:26:45
Local clock offset: -0.344 ms
Remote clock offset: -0.436 ms

# Below is generated by plot.py at 2017-09-21 16:13:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 919.49 Mbit/s
95th percentile per-packet one-way delay: 2.708 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 919.49 Mbit/s
95th percentile per-packet one-way delay: 2.708 ms
Loss rate: 0.02%
```

Run 1: Report of PCC — Data Link



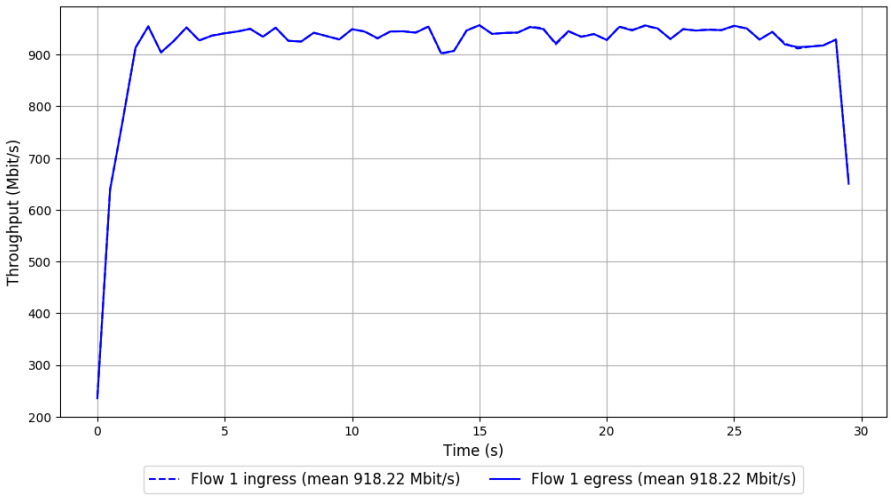


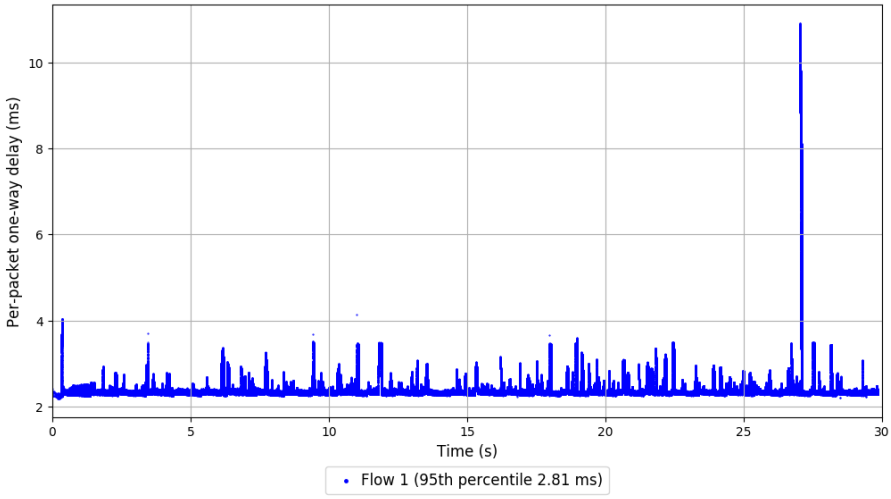
```
Run 2: Statistics of PCC

Start at: 2017-09-21 09:44:26
End at: 2017-09-21 09:44:56
Local clock offset: -0.289 ms
Remote clock offset: -0.232 ms

# Below is generated by plot.py at 2017-09-21 16:14:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 918.22 Mbit/s
95th percentile per-packet one-way delay: 2.805 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 918.22 Mbit/s
95th percentile per-packet one-way delay: 2.805 ms
Loss rate: 0.01%
```

Run 2: Report of PCC — Data Link



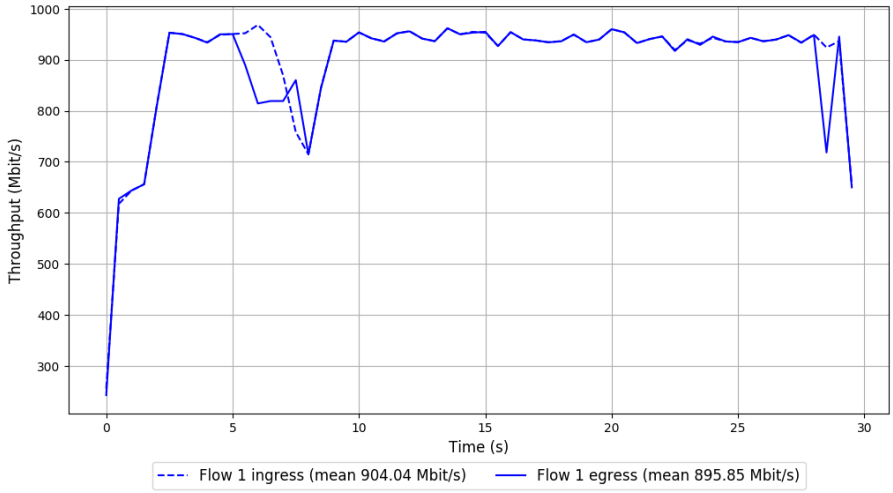


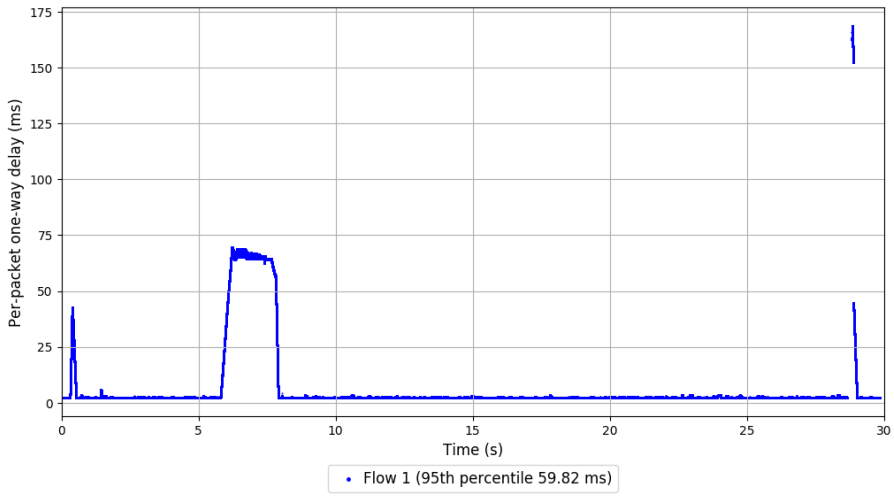
```
Run 3: Statistics of PCC

Start at: 2017-09-21 10:02:36
End at: 2017-09-21 10:03:06
Local clock offset: -0.23 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2017-09-21 16:18:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 895.85 Mbit/s
95th percentile per-packet one-way delay: 59.816 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 895.85 Mbit/s
95th percentile per-packet one-way delay: 59.816 ms
Loss rate: 0.92%
```

Run 3: Report of PCC — Data Link



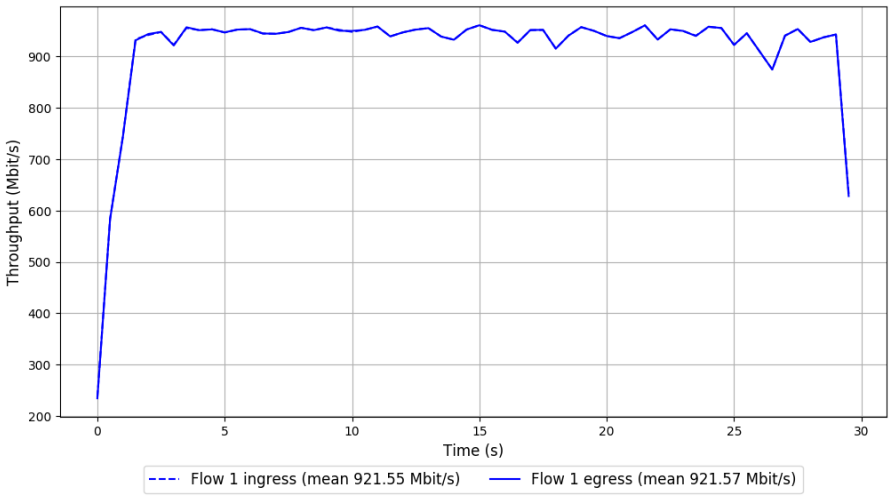


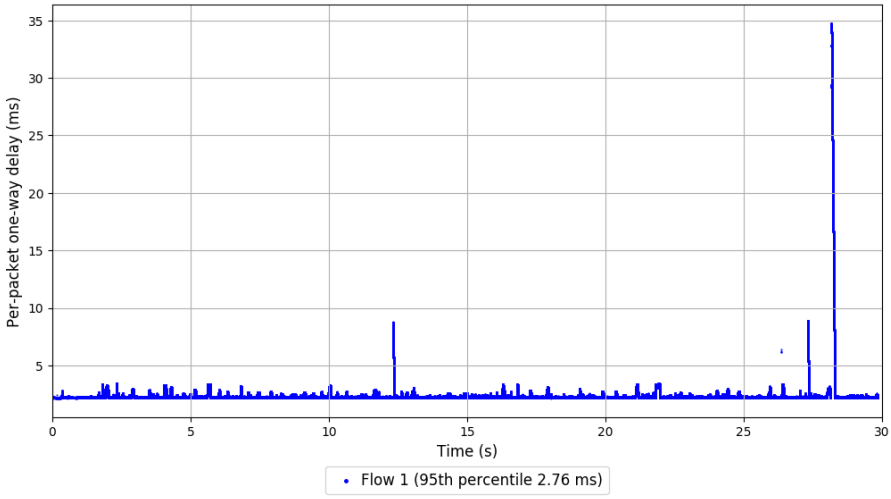
```
Run 4: Statistics of PCC

Start at: 2017-09-21 10:20:43
End at: 2017-09-21 10:21:13
Local clock offset: -0.245 ms
Remote clock offset: 0.168 ms

# Below is generated by plot.py at 2017-09-21 16:19:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 921.57 Mbit/s
95th percentile per-packet one-way delay: 2.763 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 921.57 Mbit/s
95th percentile per-packet one-way delay: 2.763 ms
Loss rate: 0.02%
```

Run 4: Report of PCC — Data Link



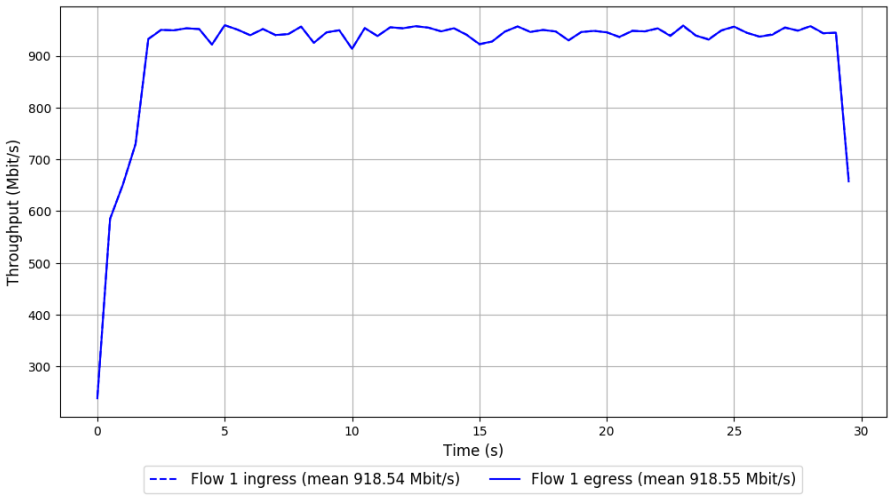


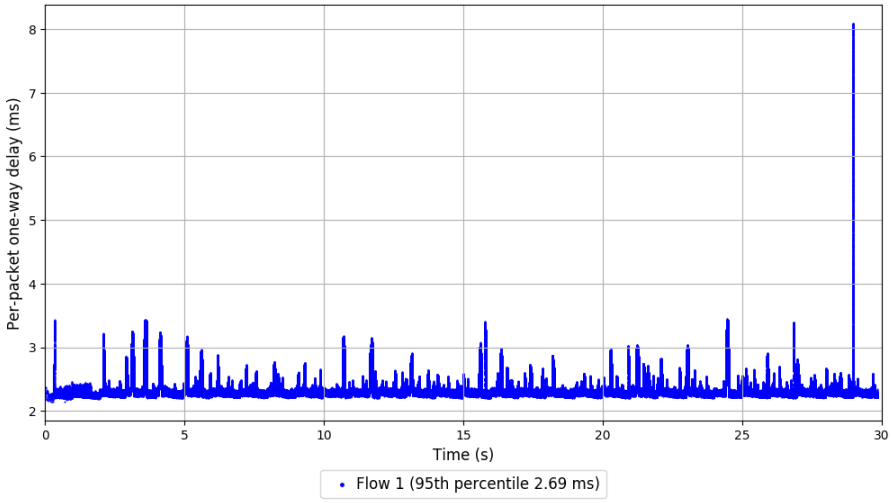
```
Run 5: Statistics of PCC

Start at: 2017-09-21 10:39:05
End at: 2017-09-21 10:39:35
Local clock offset: -0.139 ms
Remote clock offset: 0.359 ms

# Below is generated by plot.py at 2017-09-21 16:19:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 918.55 Mbit/s
95th percentile per-packet one-way delay: 2.692 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 918.55 Mbit/s
95th percentile per-packet one-way delay: 2.692 ms
Loss rate: 0.01%
```

Run 5: Report of PCC — Data Link



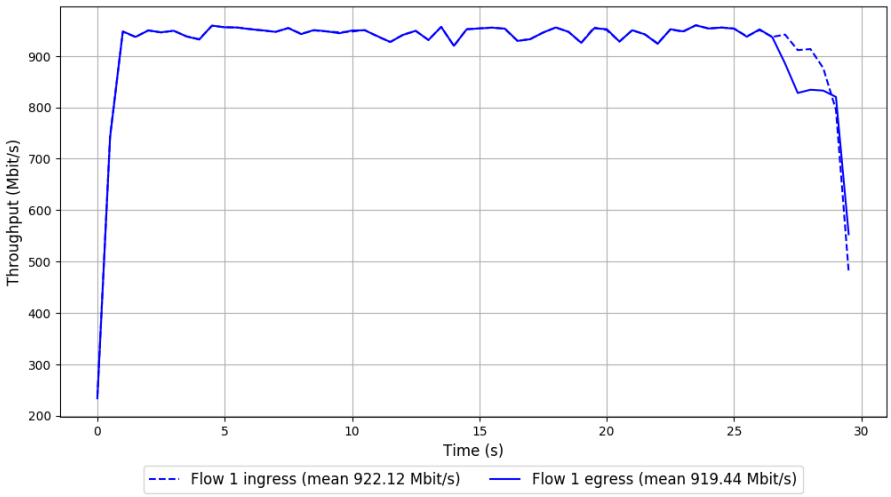


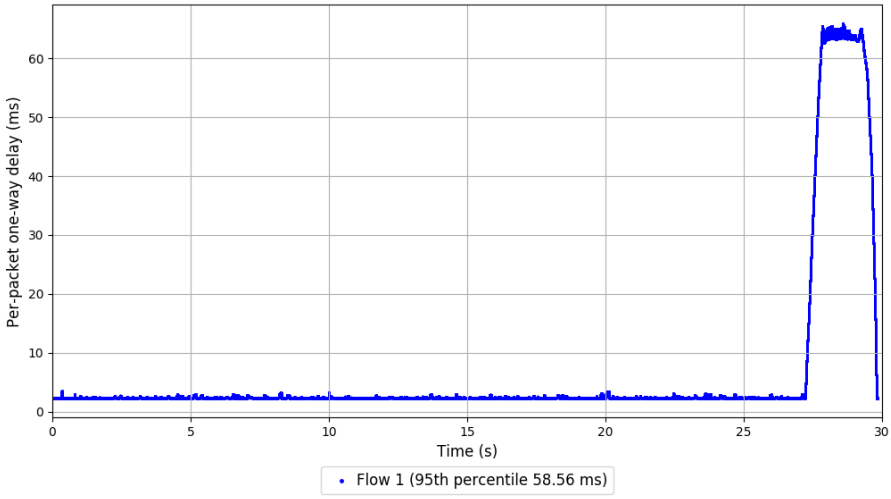
```
Run 6: Statistics of PCC

Start at: 2017-09-21 10:57:21
End at: 2017-09-21 10:57:51
Local clock offset: -0.11 ms
Remote clock offset: 0.357 ms

# Below is generated by plot.py at 2017-09-21 16:19:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 919.44 Mbit/s
95th percentile per-packet one-way delay: 58.556 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 919.44 Mbit/s
95th percentile per-packet one-way delay: 58.556 ms
Loss rate: 0.31%
```

Run 6: Report of PCC — Data Link



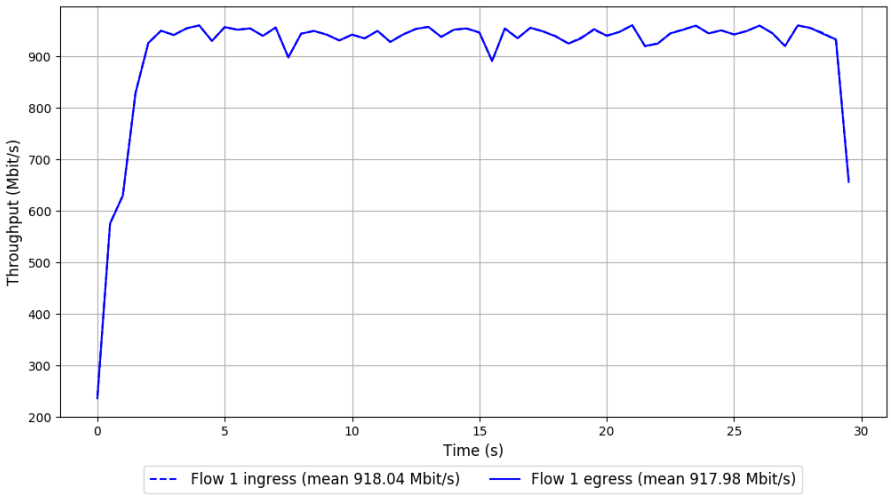


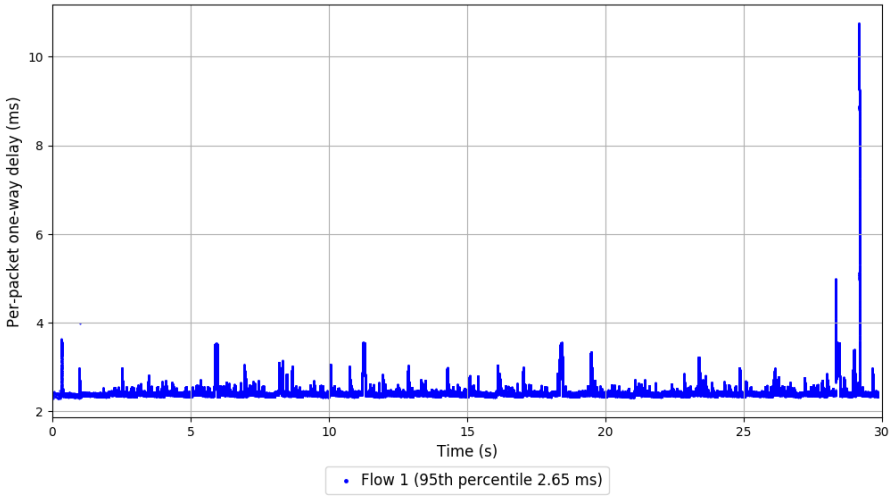
```
Run 7: Statistics of PCC

Start at: 2017-09-21 11:15:36
End at: 2017-09-21 11:16:06
Local clock offset: 0.066 ms
Remote clock offset: 0.324 ms

# Below is generated by plot.py at 2017-09-21 16:20:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 917.98 Mbit/s
95th percentile per-packet one-way delay: 2.654 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 917.98 Mbit/s
95th percentile per-packet one-way delay: 2.654 ms
Loss rate: 0.02%
```

Run 7: Report of PCC — Data Link



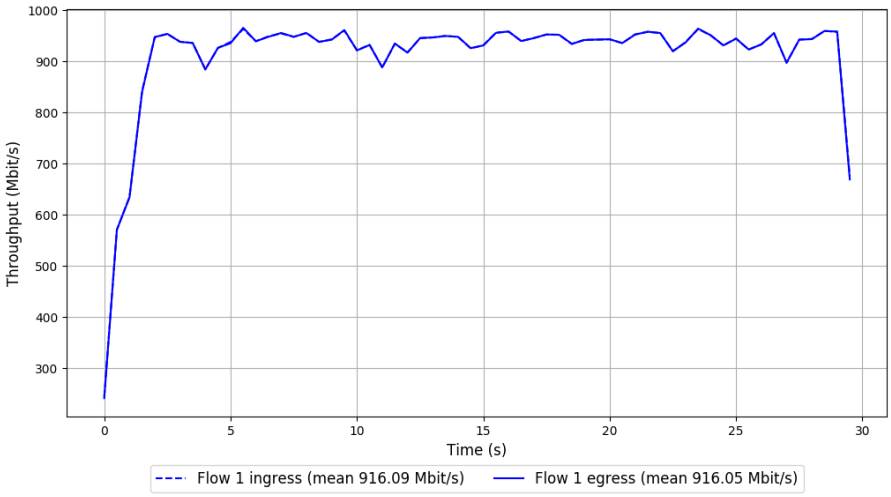


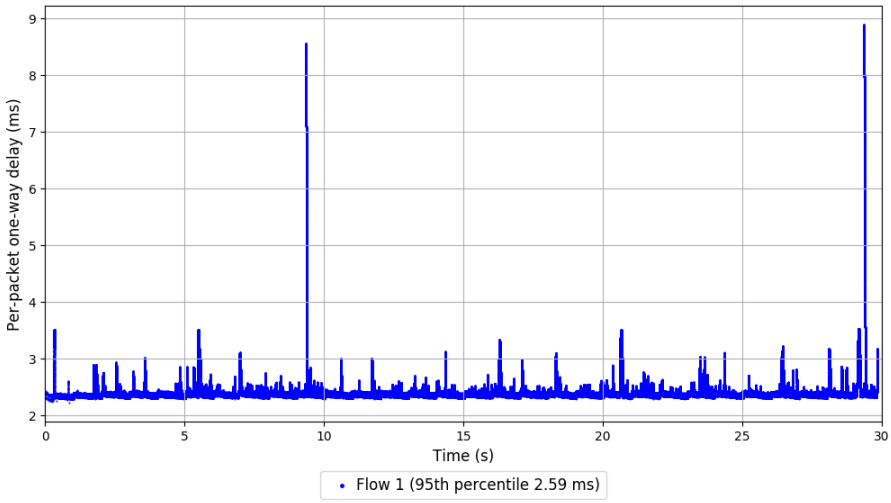
```
Run 8: Statistics of PCC

Start at: 2017-09-21 11:33:49
End at: 2017-09-21 11:34:19
Local clock offset: 0.133 ms
Remote clock offset: 0.348 ms

# Below is generated by plot.py at 2017-09-21 16:20:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 916.05 Mbit/s
95th percentile per-packet one-way delay: 2.590 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 916.05 Mbit/s
95th percentile per-packet one-way delay: 2.590 ms
Loss rate: 0.02%
```

Run 8: Report of PCC — Data Link



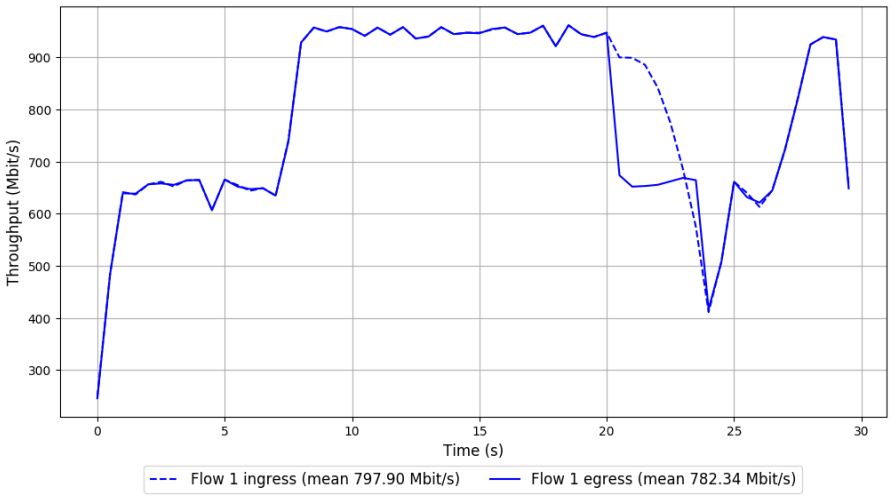


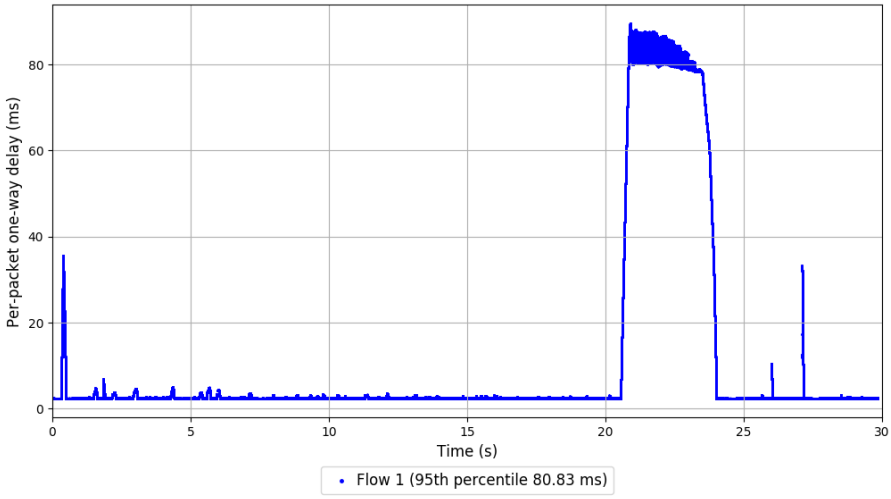
```
Run 9: Statistics of PCC

Start at: 2017-09-21 11:52:12
End at: 2017-09-21 11:52:42
Local clock offset: 0.303 ms
Remote clock offset: 0.387 ms

# Below is generated by plot.py at 2017-09-21 16:26:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 782.34 Mbit/s
95th percentile per-packet one-way delay: 80.826 ms
Loss rate: 1.97%
-- Flow 1:
Average throughput: 782.34 Mbit/s
95th percentile per-packet one-way delay: 80.826 ms
Loss rate: 1.97%
```

Run 9: Report of PCC — Data Link



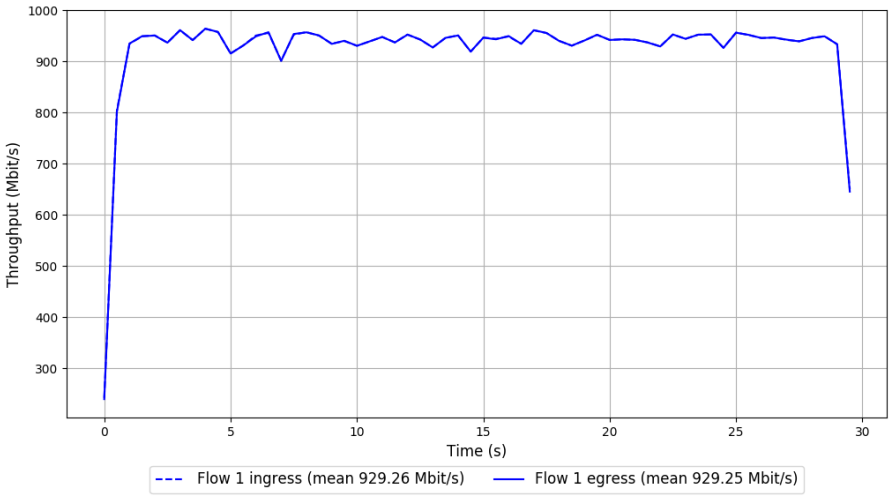


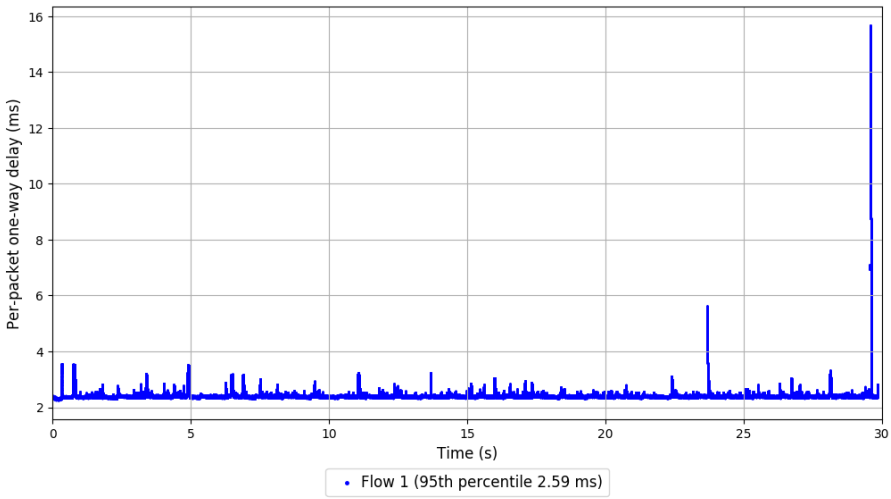
```
Run 10: Statistics of PCC

Start at: 2017-09-21 12:10:39
End at: 2017-09-21 12:11:09
Local clock offset: 0.32 ms
Remote clock offset: 0.293 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 929.25 Mbit/s
95th percentile per-packet one-way delay: 2.591 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 929.25 Mbit/s
95th percentile per-packet one-way delay: 2.591 ms
Loss rate: 0.02%
```

Run 10: Report of PCC — Data Link



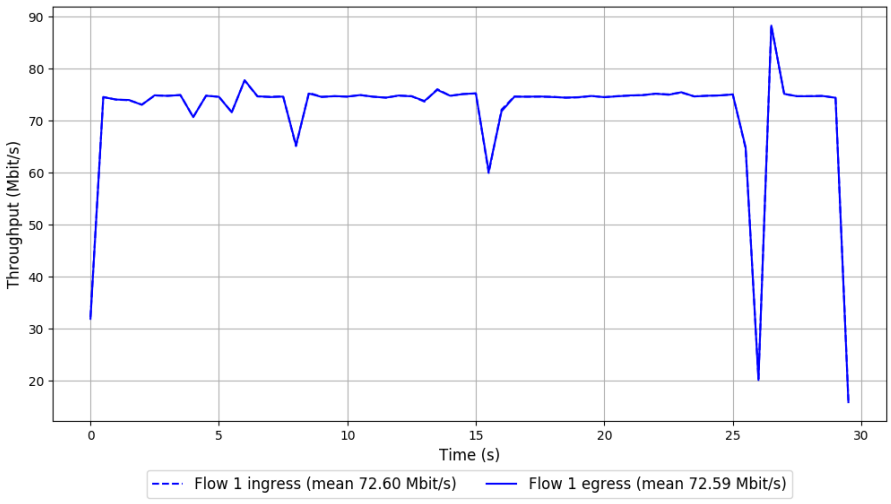


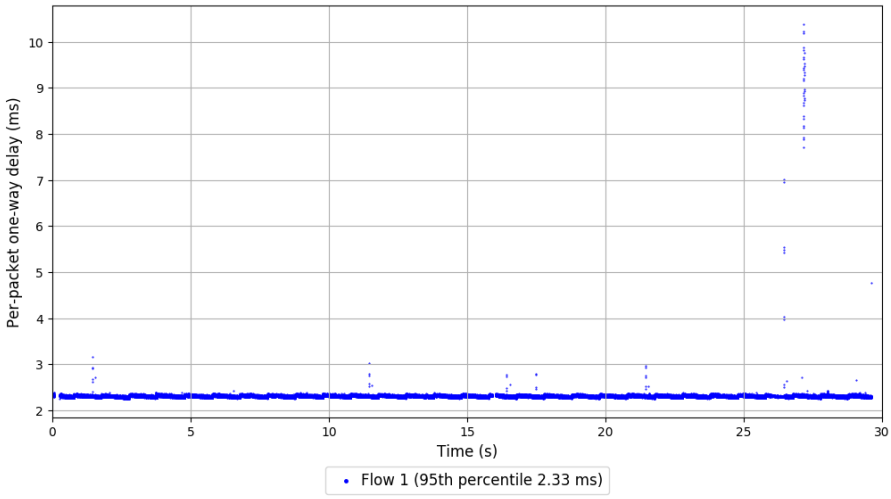
```
Run 1: Statistics of QUIC Cubic

Start at: 2017-09-21 09:16:38
End at: 2017-09-21 09:17:08
Local clock offset: -0.372 ms
Remote clock offset: -0.482 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.59 Mbit/s
95th percentile per-packet one-way delay: 2.333 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 72.59 Mbit/s
95th percentile per-packet one-way delay: 2.333 ms
Loss rate: 0.02%
```

Run 1: Report of QUIC Cubic — Data Link



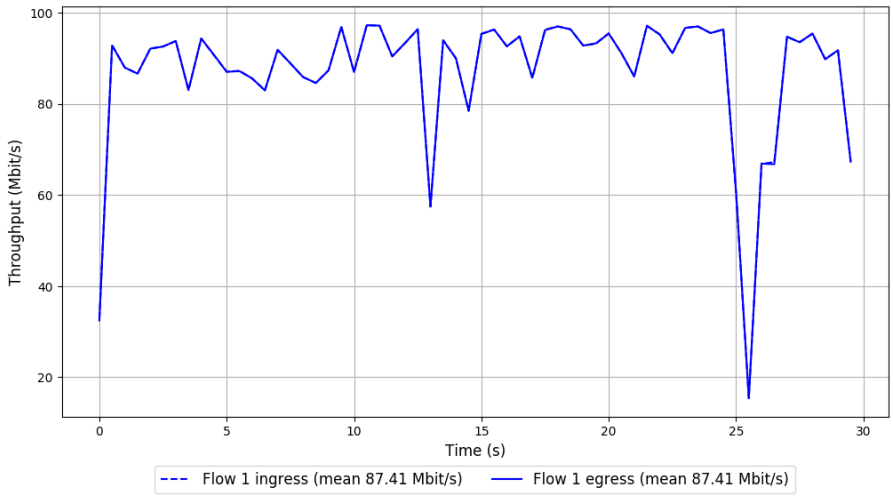


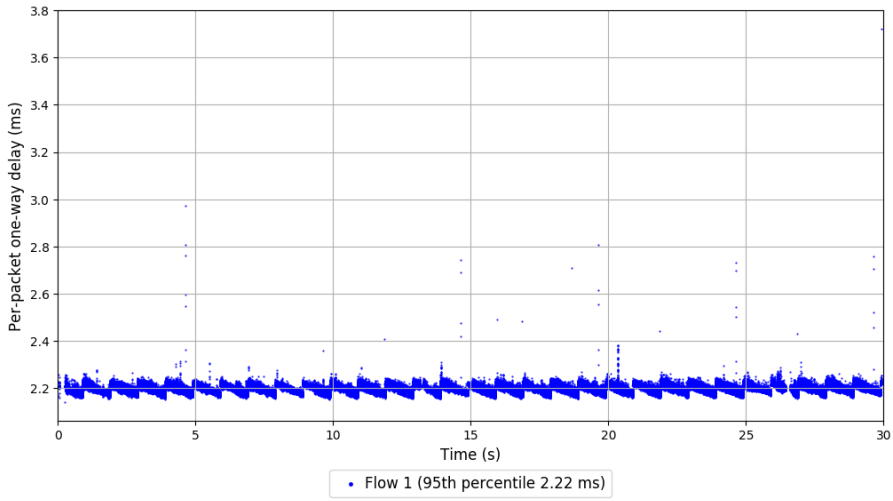
```
Run 2: Statistics of QUIC Cubic

Start at: 2017-09-21 09:35:00
End at: 2017-09-21 09:35:30
Local clock offset: -0.371 ms
Remote clock offset: -0.319 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.41 Mbit/s
95th percentile per-packet one-way delay: 2.222 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 87.41 Mbit/s
95th percentile per-packet one-way delay: 2.222 ms
Loss rate: 0.01%
```

Run 2: Report of QUIC Cubic — Data Link



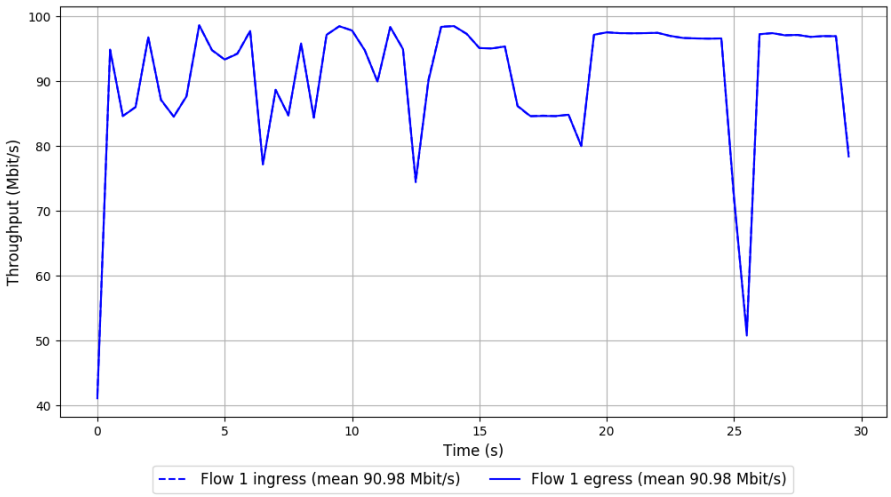


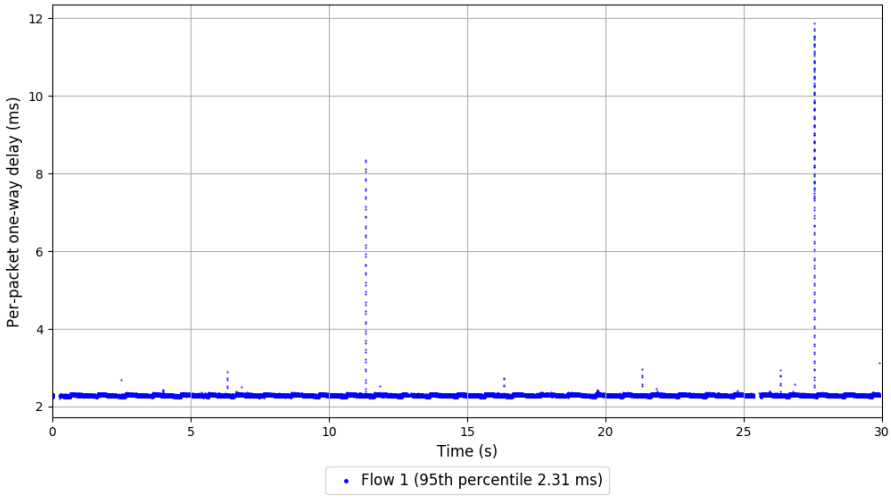
```
Run 3: Statistics of QUIC Cubic

Start at: 2017-09-21 09:53:05
End at: 2017-09-21 09:53:35
Local clock offset: -0.247 ms
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.98 Mbit/s
95th percentile per-packet one-way delay: 2.305 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 90.98 Mbit/s
95th percentile per-packet one-way delay: 2.305 ms
Loss rate: 0.02%
```

Run 3: Report of QUIC Cubic — Data Link



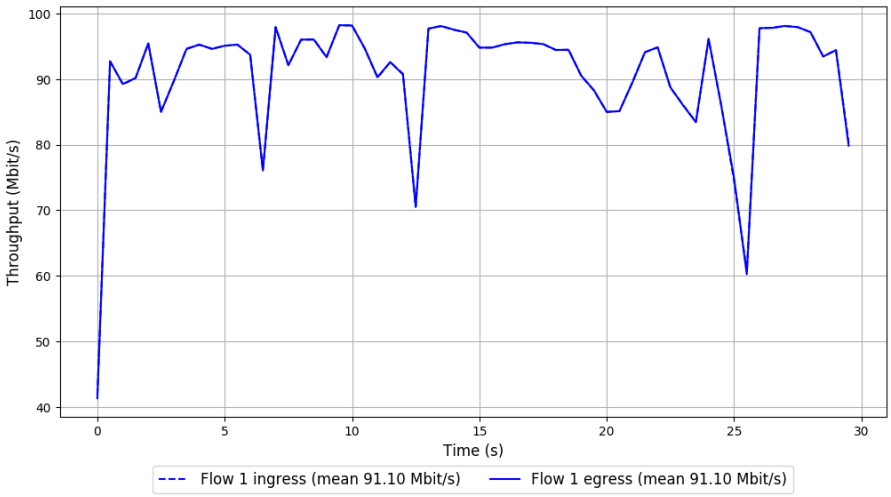


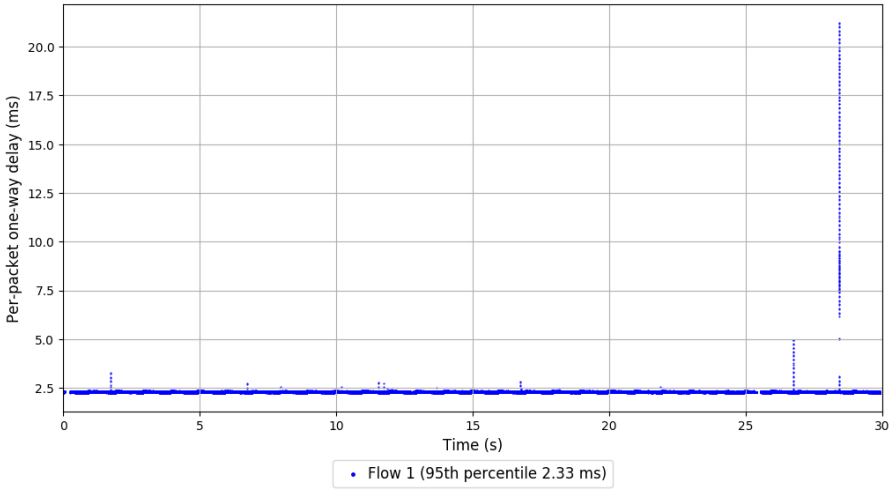
```
Run 4: Statistics of QUIC Cubic

Start at: 2017-09-21 10:11:21
End at: 2017-09-21 10:11:51
Local clock offset: -0.228 ms
Remote clock offset: 0.046 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.10 Mbit/s
95th percentile per-packet one-way delay: 2.325 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 91.10 Mbit/s
95th percentile per-packet one-way delay: 2.325 ms
Loss rate: 0.02%
```

Run 4: Report of QUIC Cubic — Data Link



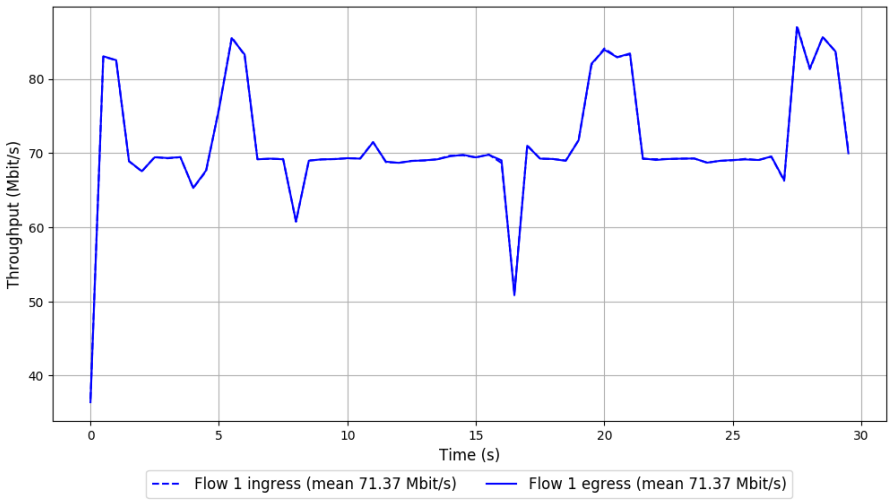


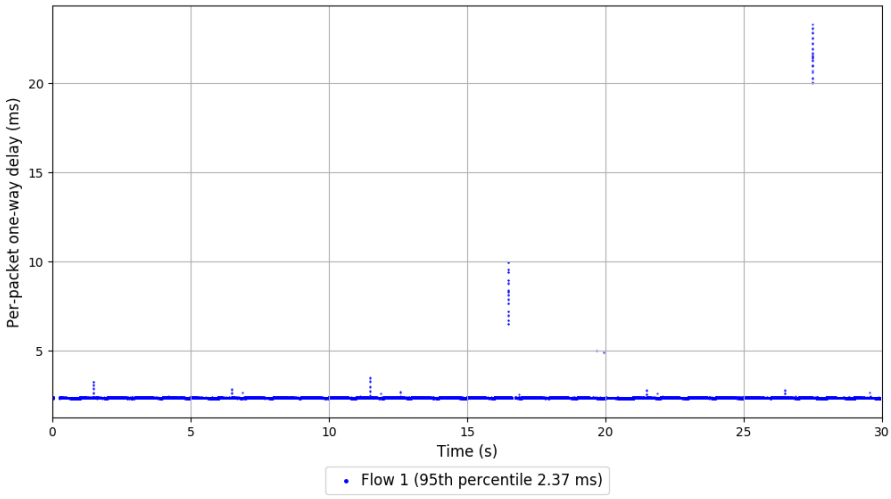
```
Run 5: Statistics of QUIC Cubic

Start at: 2017-09-21 10:29:23
End at: 2017-09-21 10:29:53
Local clock offset: -0.122 ms
Remote clock offset: 0.177 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.37 Mbit/s
95th percentile per-packet one-way delay: 2.374 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 71.37 Mbit/s
95th percentile per-packet one-way delay: 2.374 ms
Loss rate: 0.02%
```

Run 5: Report of QUIC Cubic — Data Link



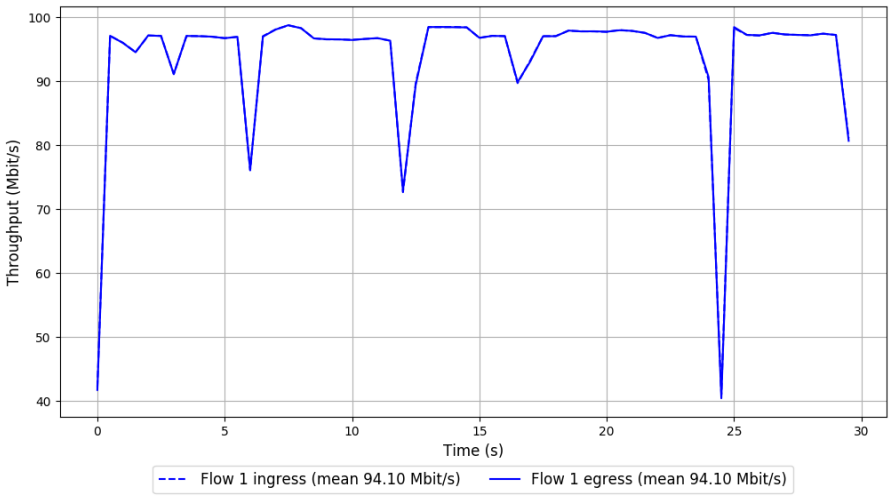


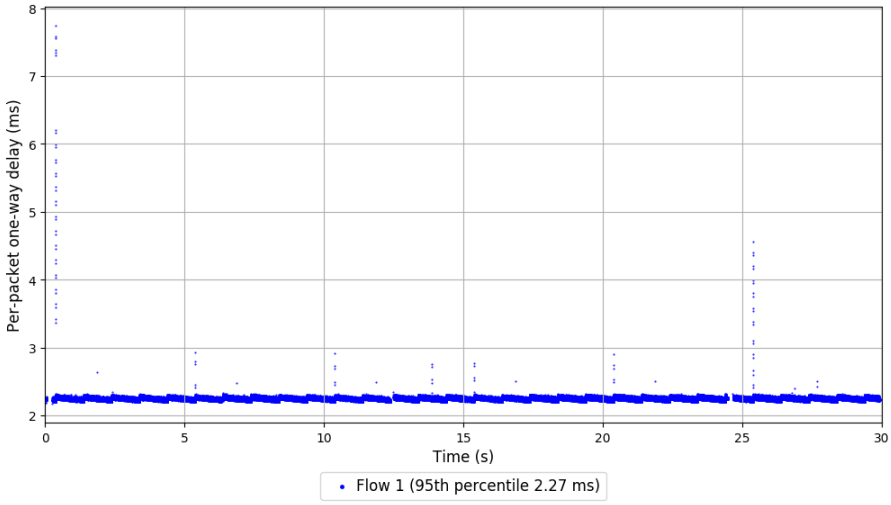
```
Run 6: Statistics of QUIC Cubic

Start at: 2017-09-21 10:47:47
End at: 2017-09-21 10:48:17
Local clock offset: -0.071 ms
Remote clock offset: 0.41 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.10 Mbit/s
95th percentile per-packet one-way delay: 2.273 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 94.10 Mbit/s
95th percentile per-packet one-way delay: 2.273 ms
Loss rate: 0.02%
```

Run 6: Report of QUIC Cubic — Data Link



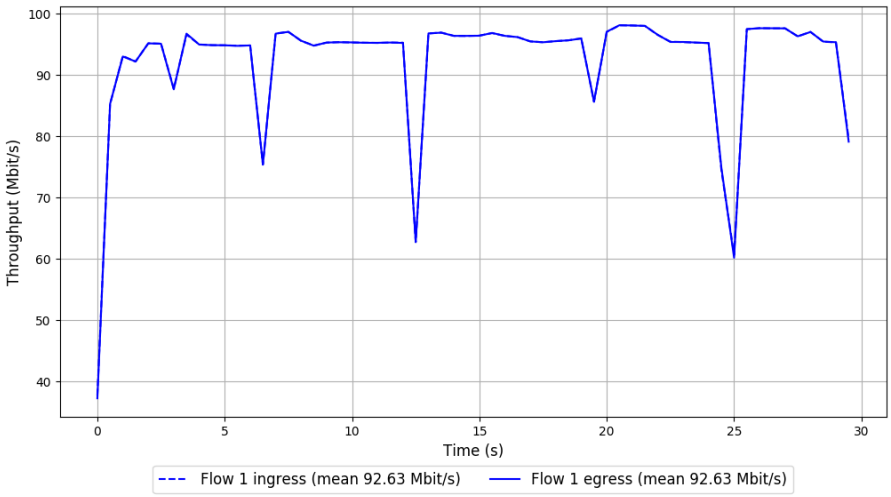


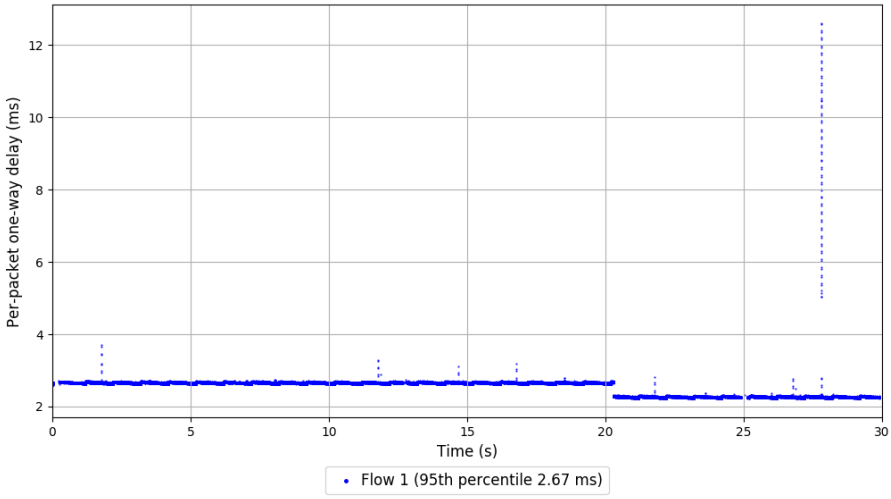
```
Run 7: Statistics of QUIC Cubic

Start at: 2017-09-21 11:06:15
End at: 2017-09-21 11:06:45
Local clock offset: 0.022 ms
Remote clock offset: 0.426 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.63 Mbit/s
95th percentile per-packet one-way delay: 2.670 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 92.63 Mbit/s
95th percentile per-packet one-way delay: 2.670 ms
Loss rate: 0.02%
```

Run 7: Report of QUIC Cubic — Data Link



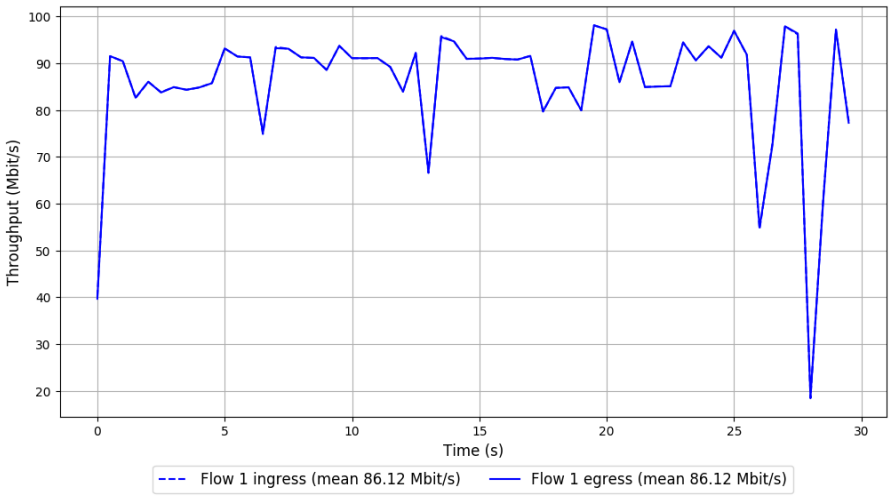


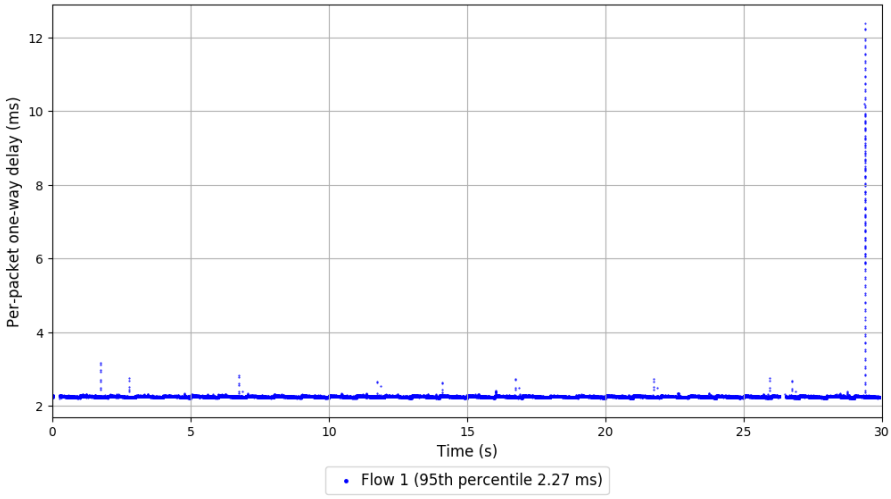
```
Run 8: Statistics of QUIC Cubic

Start at: 2017-09-21 11:24:26
End at: 2017-09-21 11:24:56
Local clock offset: 0.022 ms
Remote clock offset: 0.348 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.12 Mbit/s
95th percentile per-packet one-way delay: 2.270 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 86.12 Mbit/s
95th percentile per-packet one-way delay: 2.270 ms
Loss rate: 0.02%
```

Run 8: Report of QUIC Cubic — Data Link



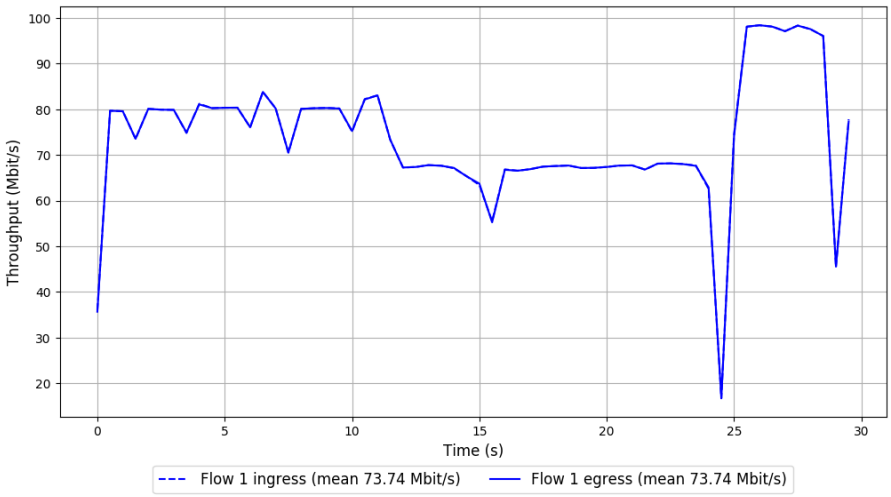


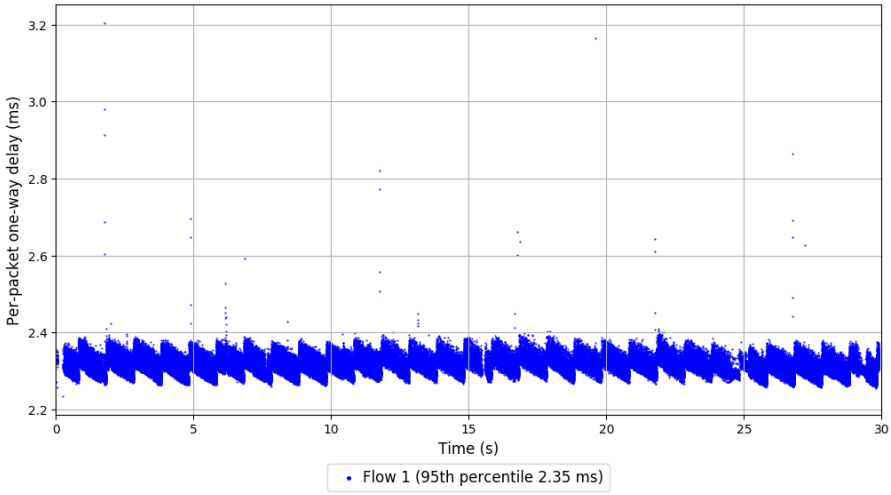
```
Run 9: Statistics of QUIC Cubic

Start at: 2017-09-21 11:42:40
End at: 2017-09-21 11:43:10
Local clock offset: 0.202 ms
Remote clock offset: 0.393 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.74 Mbit/s
95th percentile per-packet one-way delay: 2.350 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 73.74 Mbit/s
95th percentile per-packet one-way delay: 2.350 ms
Loss rate: 0.02%
```

Run 9: Report of QUIC Cubic — Data Link



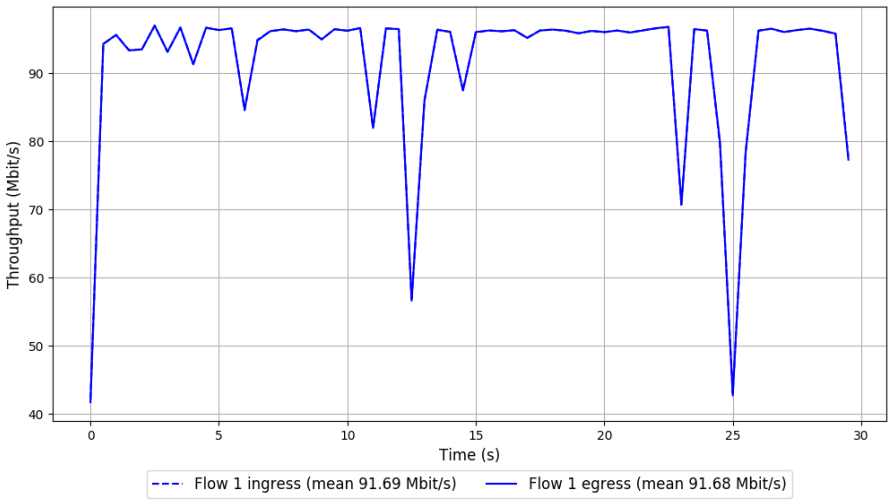


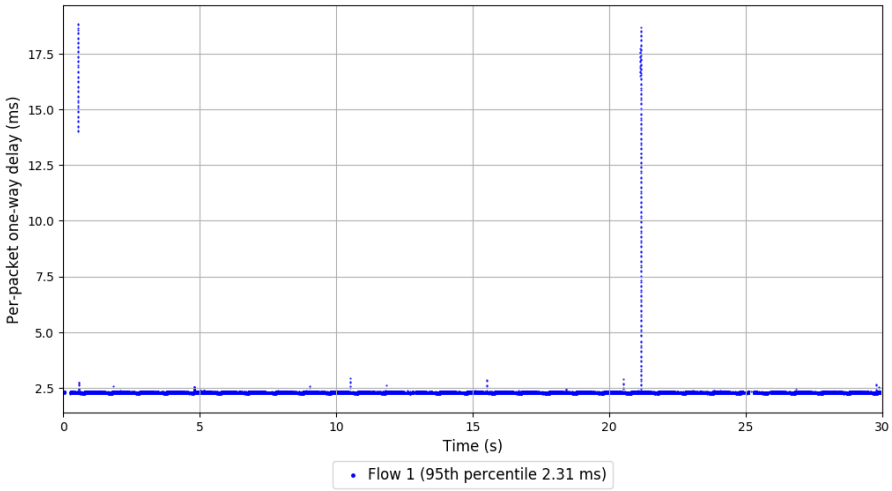
```
Run 10: Statistics of QUIC Cubic

Start at: 2017-09-21 12:00:58
End at: 2017-09-21 12:01:28
Local clock offset: 0.294 ms
Remote clock offset: 0.402 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.68 Mbit/s
95th percentile per-packet one-way delay: 2.313 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 91.68 Mbit/s
95th percentile per-packet one-way delay: 2.313 ms
Loss rate: 0.02%
```

Run 10: Report of QUIC Cubic — Data Link



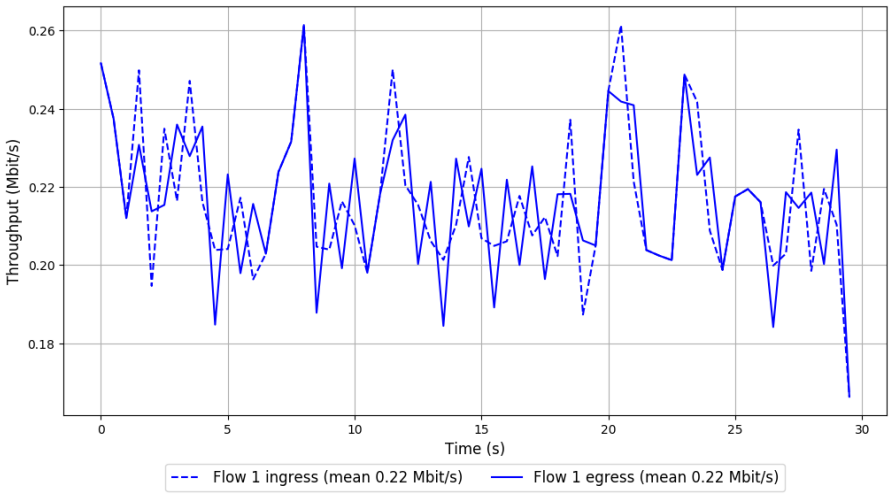


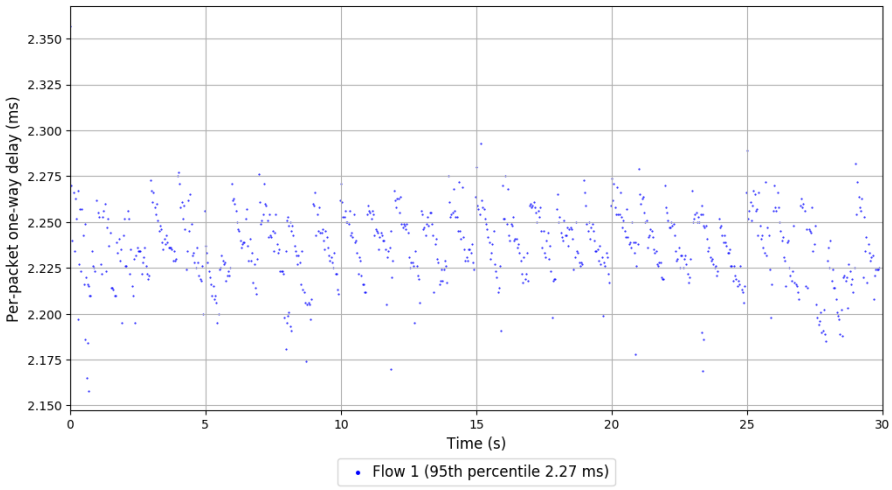
```
Run 1: Statistics of SCReAM

Start at: 2017-09-21 09:30:17
End at: 2017-09-21 09:30:47
Local clock offset: -0.392 ms
Remote clock offset: -0.388 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.266 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.266 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link



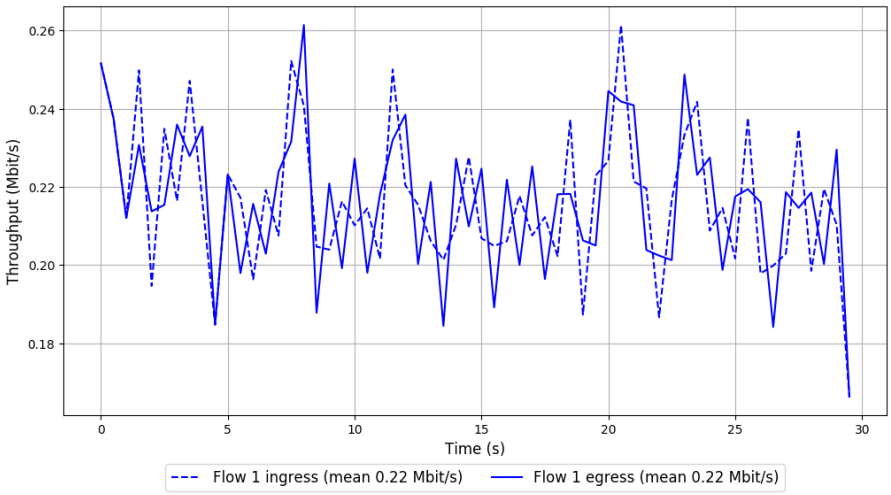


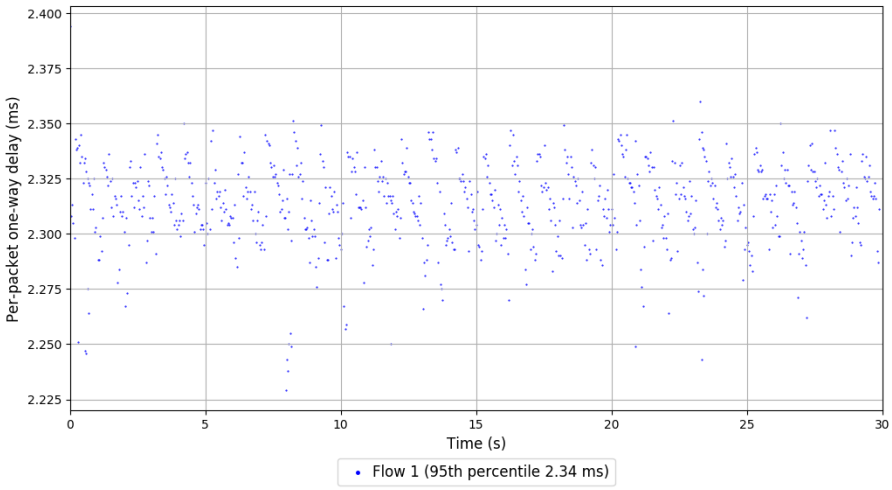
```
Run 2: Statistics of SCReAM

Start at: 2017-09-21 09:48:21
End at: 2017-09-21 09:48:51
Local clock offset: -0.261 ms
Remote clock offset: -0.174 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.340 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.340 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link



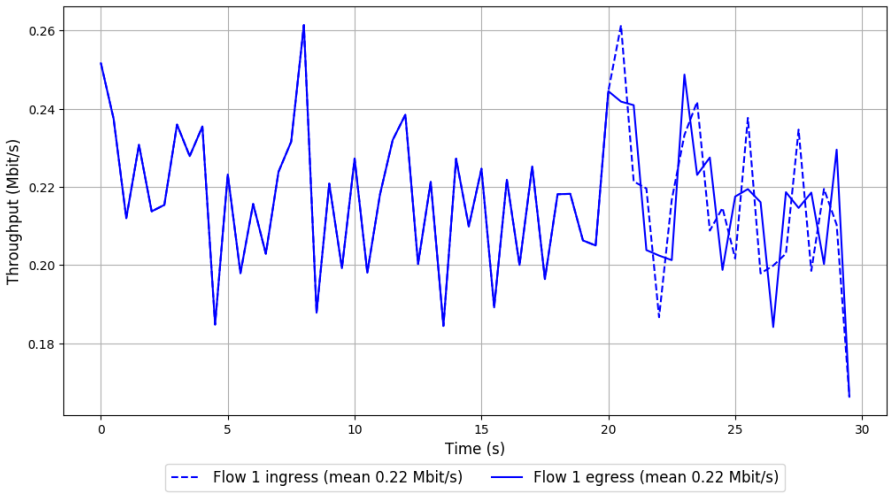


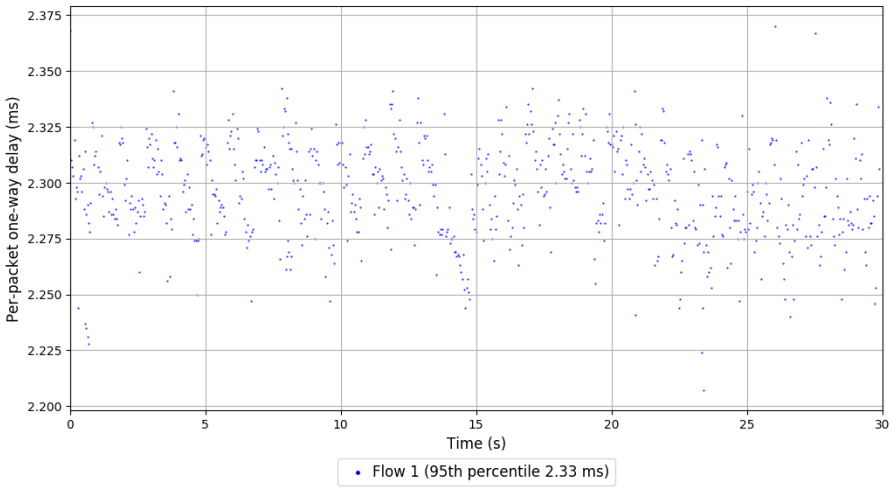
```
Run 3: Statistics of SCReAM

Start at: 2017-09-21 10:06:39
End at: 2017-09-21 10:07:09
Local clock offset: -0.182 ms
Remote clock offset: 0.081 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.328 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.328 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link



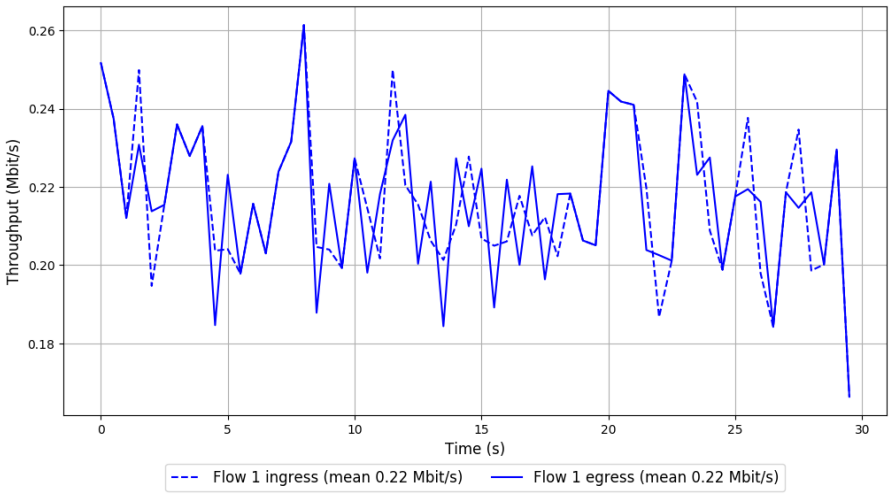


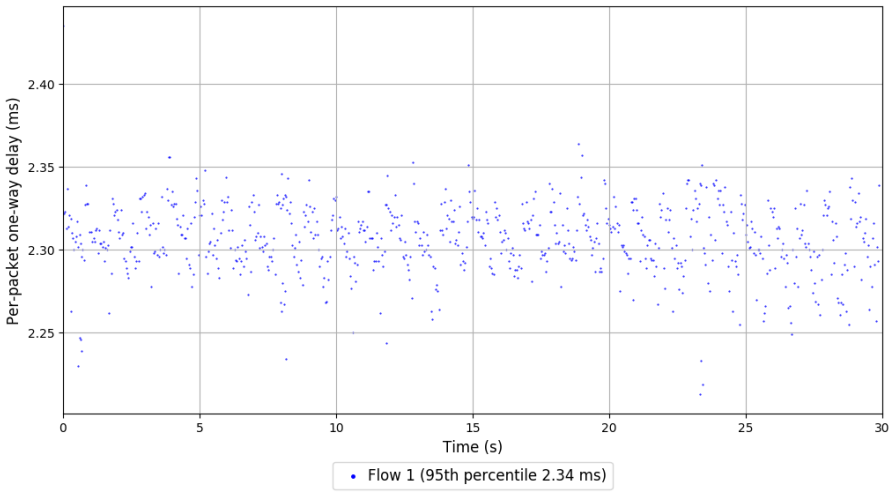
```
Run 4: Statistics of SCReAM

Start at: 2017-09-21 10:24:38
End at: 2017-09-21 10:25:08
Local clock offset: -0.223 ms
Remote clock offset: 0.126 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.336 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.336 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link



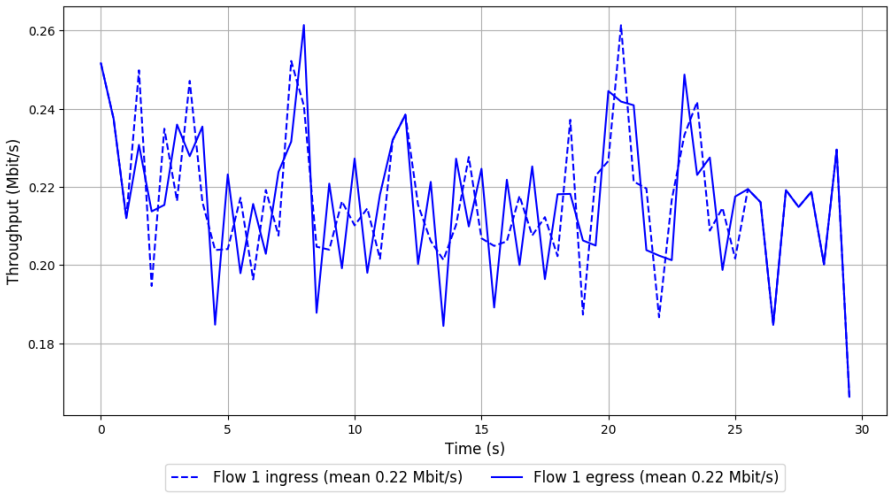


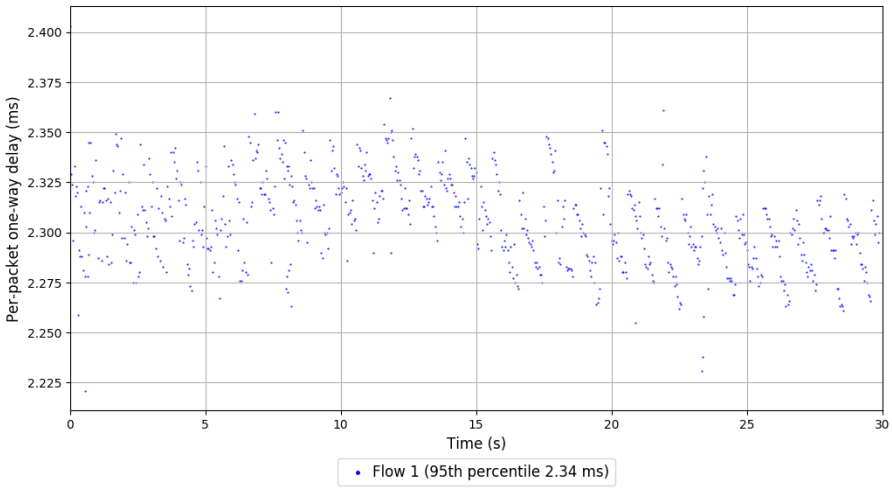
```
Run 5: Statistics of SCReAM

Start at: 2017-09-21 10:43:03
End at: 2017-09-21 10:43:33
Local clock offset: -0.118 ms
Remote clock offset: 0.311 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.343 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.343 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link



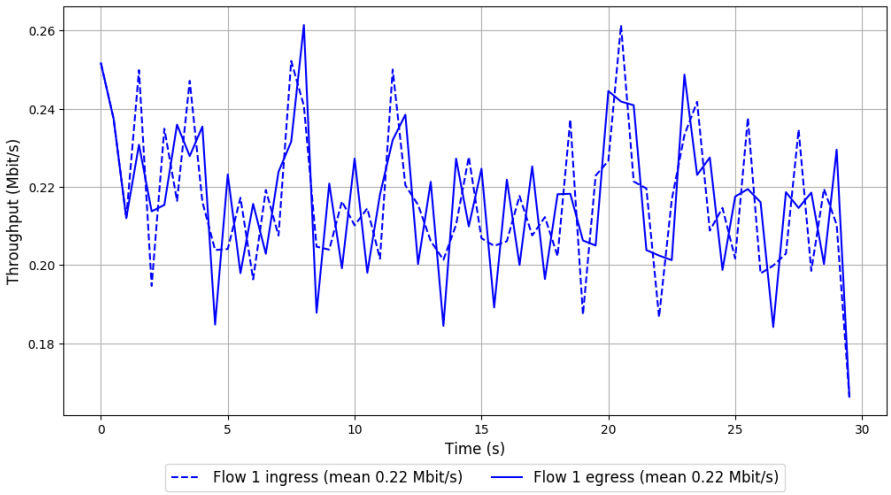


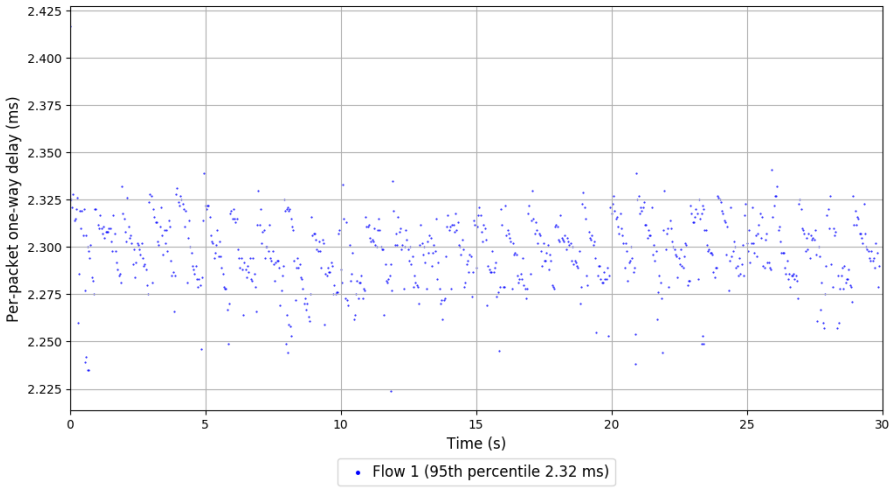
```
Run 6: Statistics of SCReAM

Start at: 2017-09-21 11:01:24
End at: 2017-09-21 11:01:54
Local clock offset: -0.008 ms
Remote clock offset: 0.411 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.324 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.324 ms
Loss rate: 0.00%
```

Run 6: Report of SCReAM — Data Link



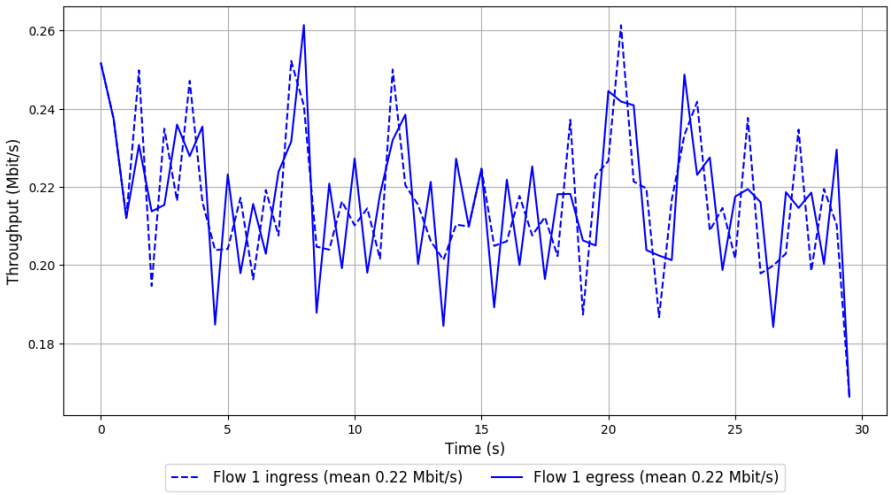


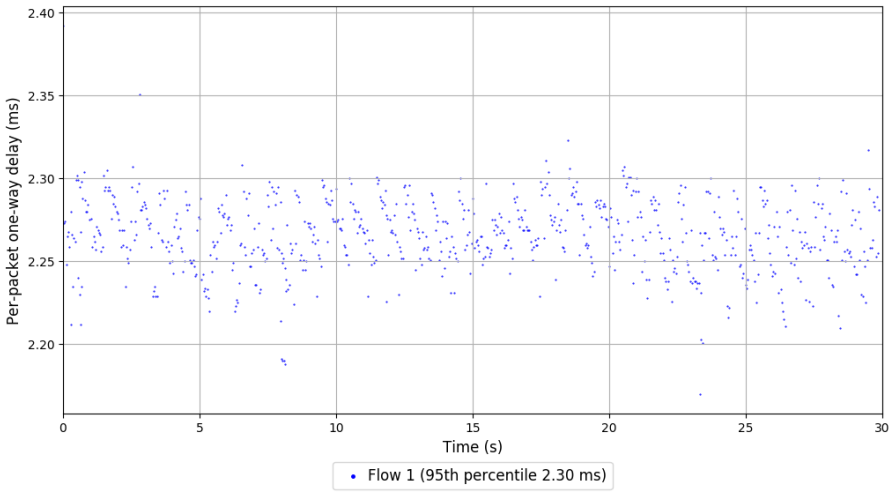
```
Run 7: Statistics of SCReAM

Start at: 2017-09-21 11:19:39
End at: 2017-09-21 11:20:09
Local clock offset: 0.059 ms
Remote clock offset: 0.398 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.297 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.297 ms
Loss rate: 0.00%
```

Run 7: Report of SCReAM — Data Link



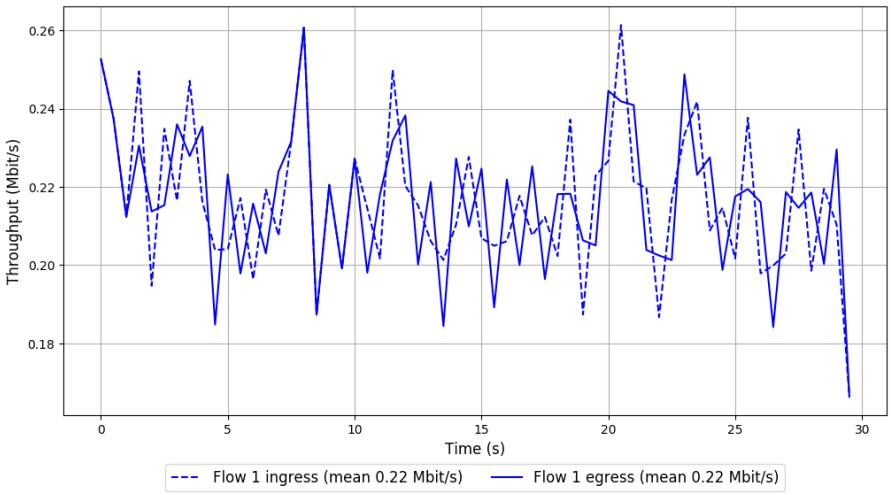


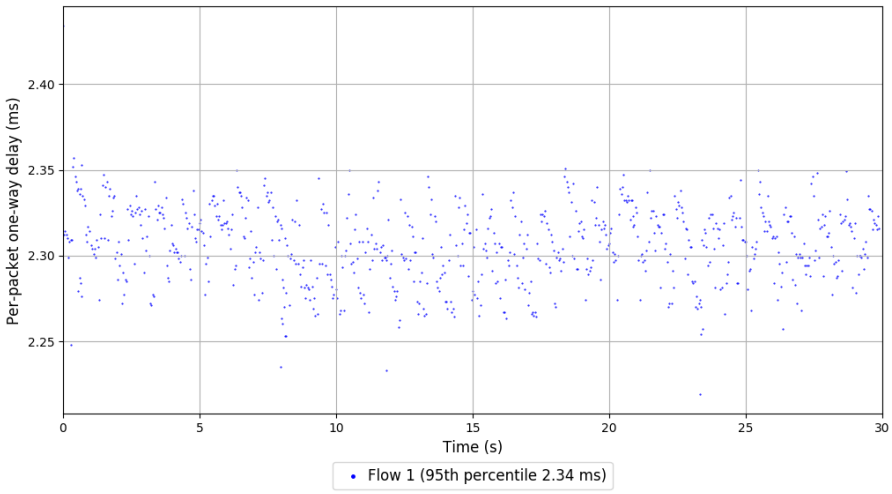
```
Run 8: Statistics of SCReAM

Start at: 2017-09-21 11:37:53
End at: 2017-09-21 11:38:23
Local clock offset: 0.131 ms
Remote clock offset: 0.376 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.339 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.339 ms
Loss rate: 0.00%
```

Run 8: Report of SCReAM — Data Link



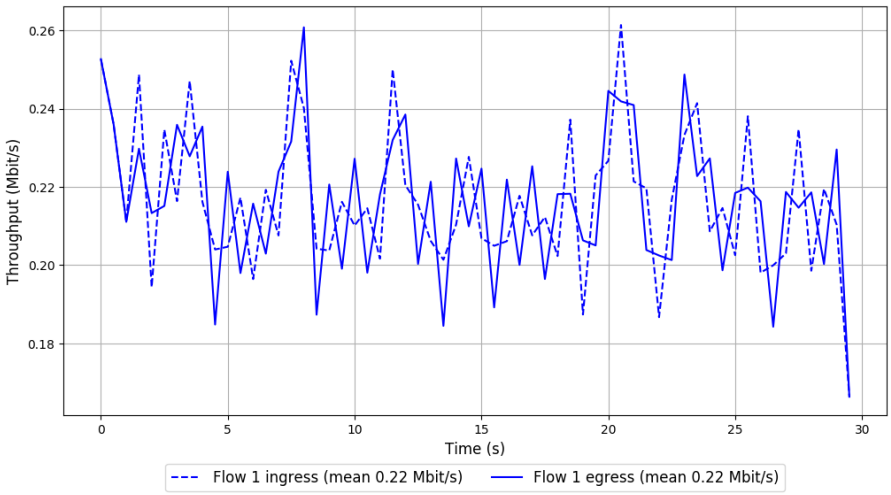


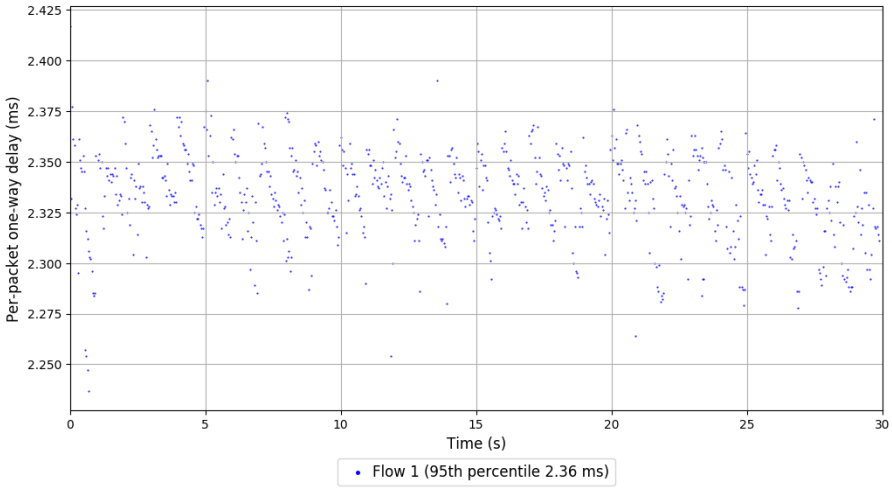
```
Run 9: Statistics of SCReAM

Start at: 2017-09-21 11:56:11
End at: 2017-09-21 11:56:41
Local clock offset: 0.269 ms
Remote clock offset: 0.369 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.363 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.363 ms
Loss rate: 0.00%
```

Run 9: Report of SCReAM — Data Link



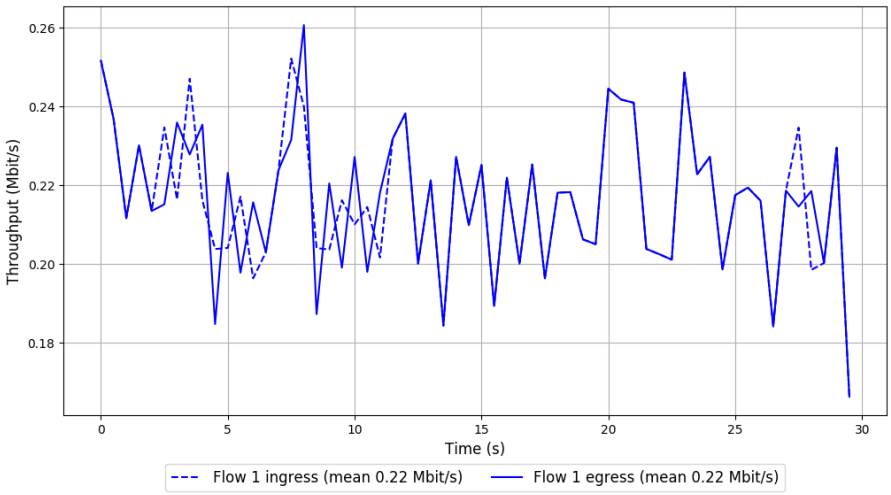


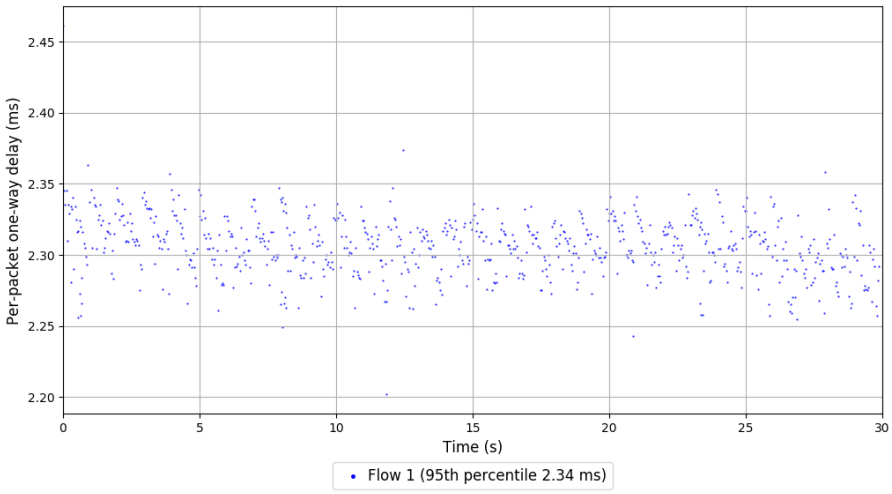
```
Run 10: Statistics of SCReAM

Start at: 2017-09-21 12:14:35
End at: 2017-09-21 12:15:05
Local clock offset: 0.371 ms
Remote clock offset: 0.37 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.337 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.337 ms
Loss rate: 0.00%
```

Run 10: Report of SCReAM — Data Link



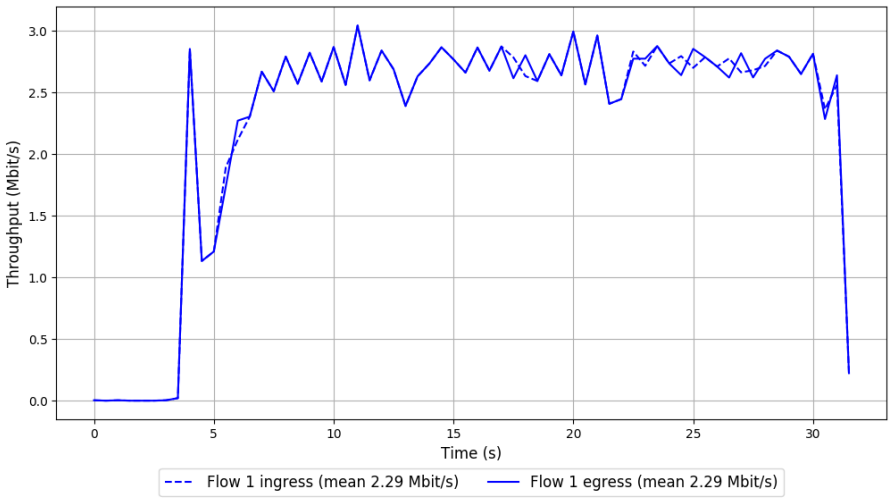


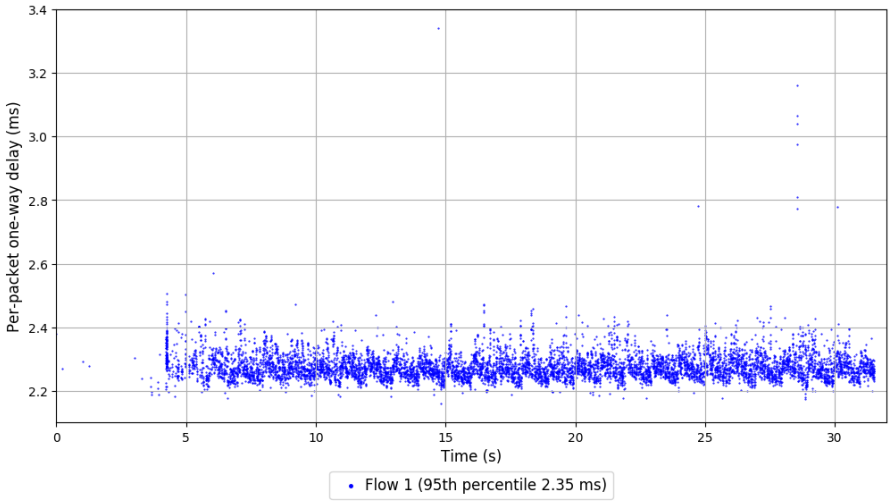
```
Run 1: Statistics of WebRTC media

Start at: 2017-09-21 09:23:58
End at: 2017-09-21 09:24:28
Local clock offset: -0.365 ms
Remote clock offset: -0.461 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 2.354 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 2.354 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



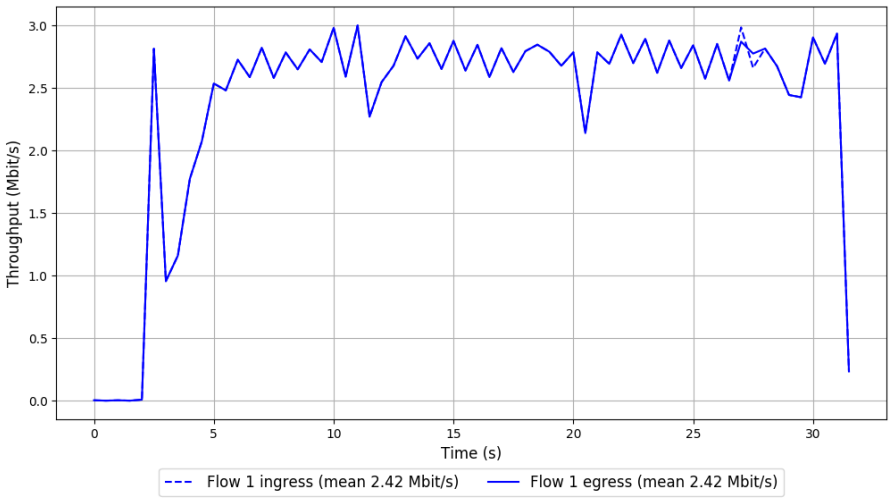


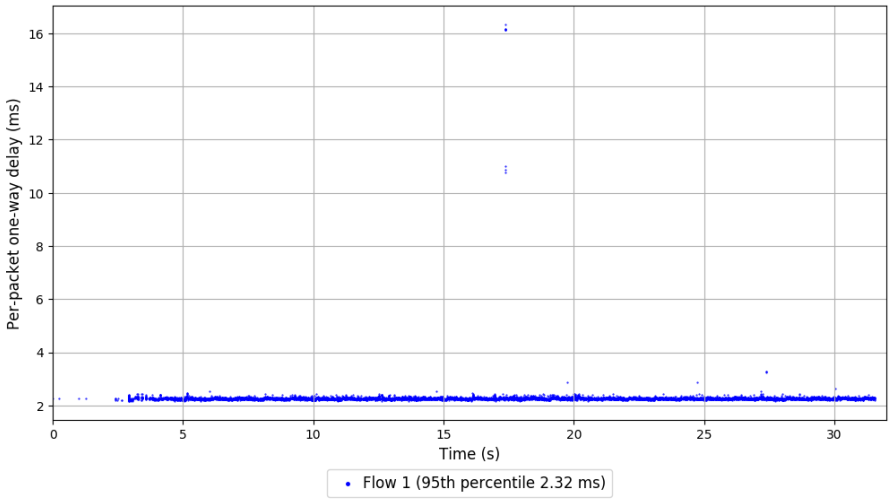
```
Run 2: Statistics of WebRTC media

Start at: 2017-09-21 09:42:09
End at: 2017-09-21 09:42:39
Local clock offset: -0.285 ms
Remote clock offset: -0.221 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 2.320 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 2.320 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link



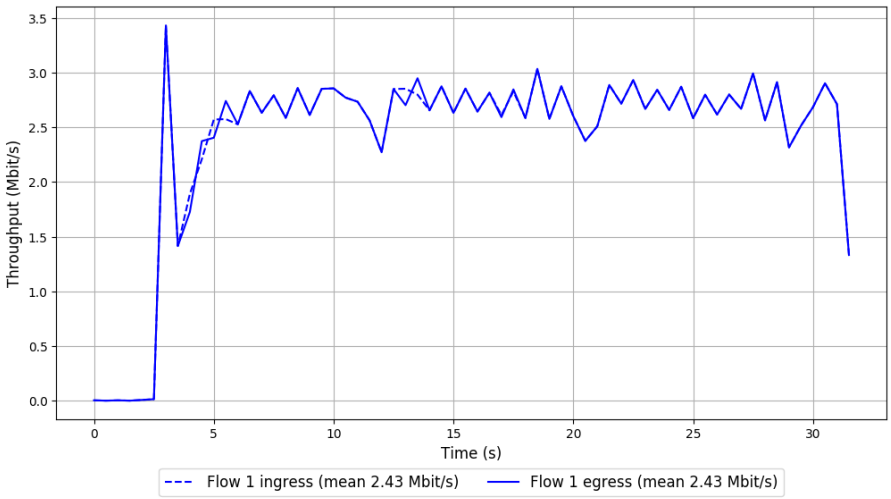


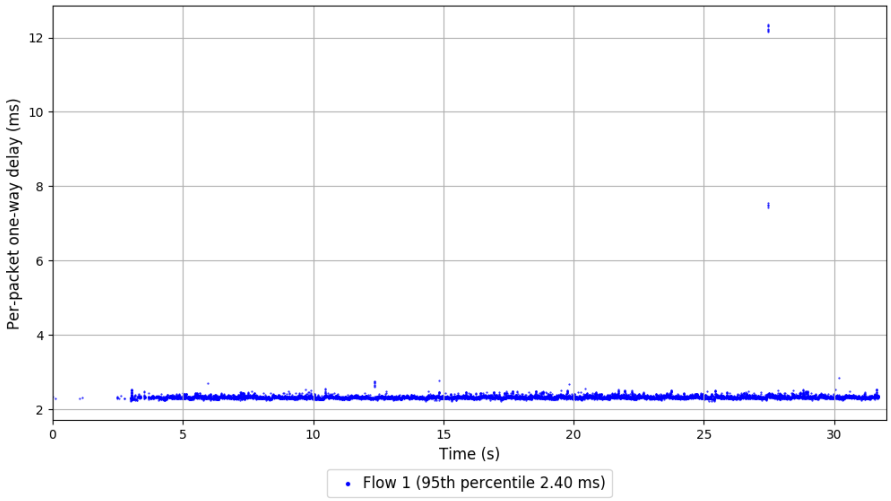
```
Run 3: Statistics of WebRTC media

Start at: 2017-09-21 10:00:19
End at: 2017-09-21 10:00:49
Local clock offset: -0.288 ms
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 2.399 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 2.399 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link



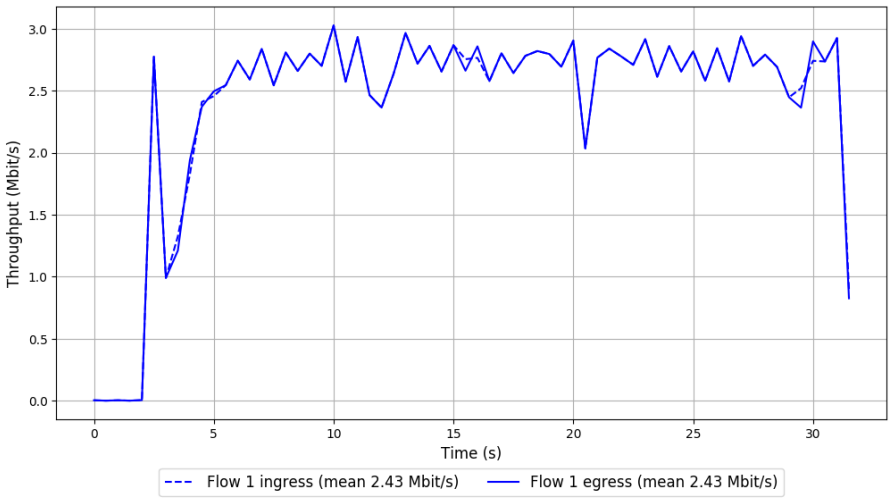


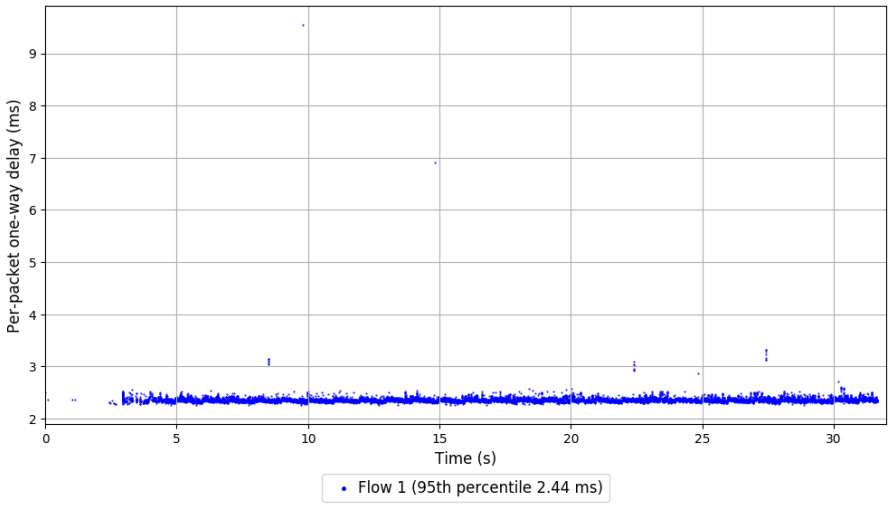
```
Run 4: Statistics of WebRTC media

Start at: 2017-09-21 10:18:29
End at: 2017-09-21 10:18:59
Local clock offset: -0.183 ms
Remote clock offset: 0.072 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 2.438 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 2.438 ms
Loss rate: 0.05%
```

Run 4: Report of WebRTC media — Data Link



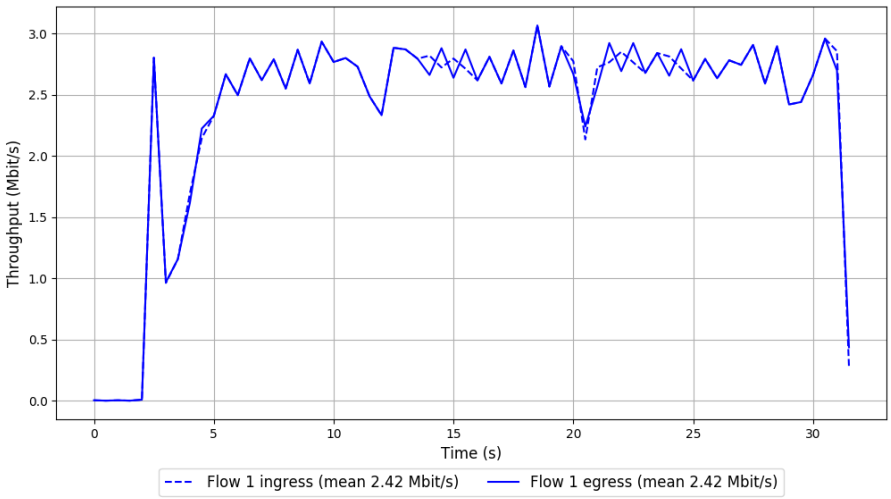


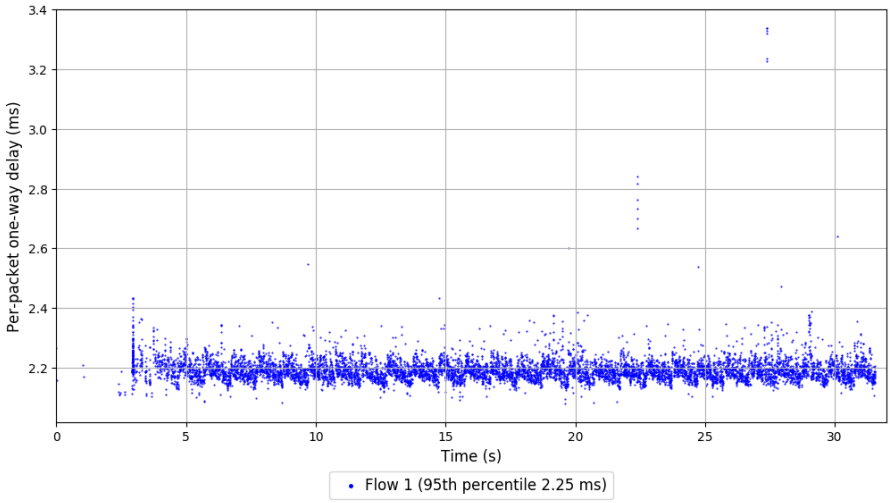
```
Run 5: Statistics of WebRTC media

Start at: 2017-09-21 10:36:48
End at: 2017-09-21 10:37:18
Local clock offset: -0.189 ms
Remote clock offset: 0.333 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 2.252 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 2.252 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link



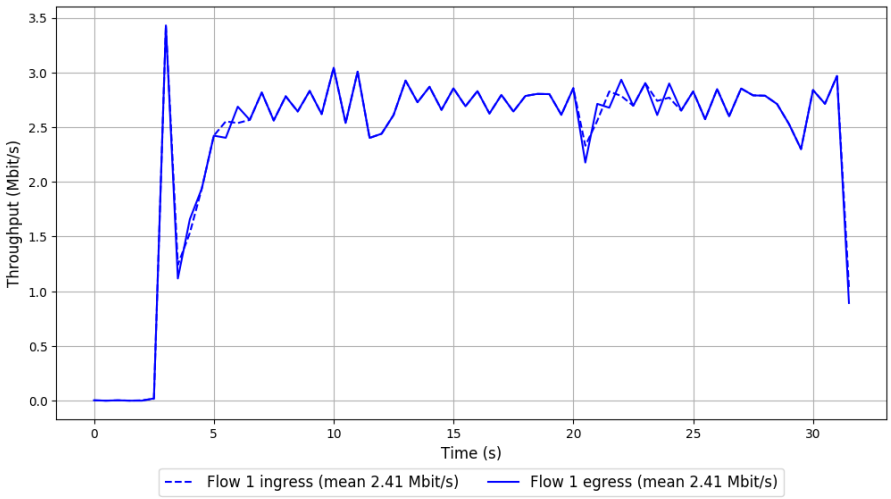


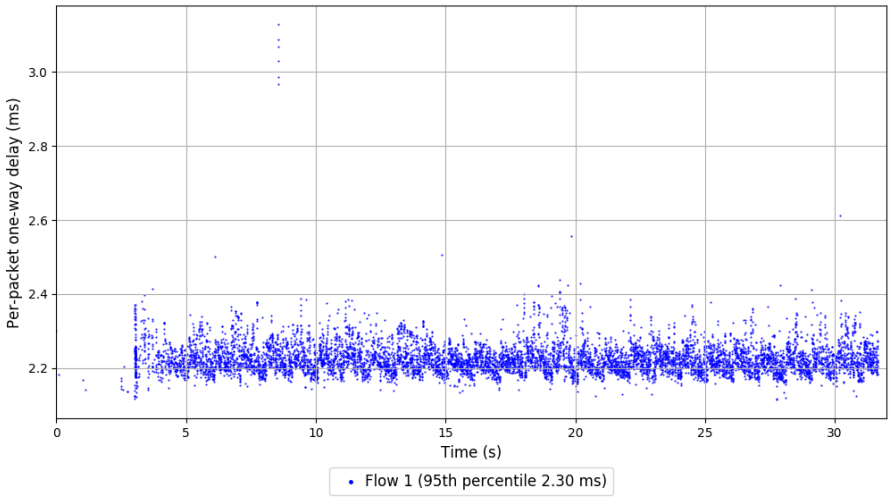
```
Run 6: Statistics of WebRTC media

Start at: 2017-09-21 10:55:03
End at: 2017-09-21 10:55:33
Local clock offset: -0.111 ms
Remote clock offset: 0.416 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 2.301 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 2.301 ms
Loss rate: 0.10%
```

Run 6: Report of WebRTC media — Data Link



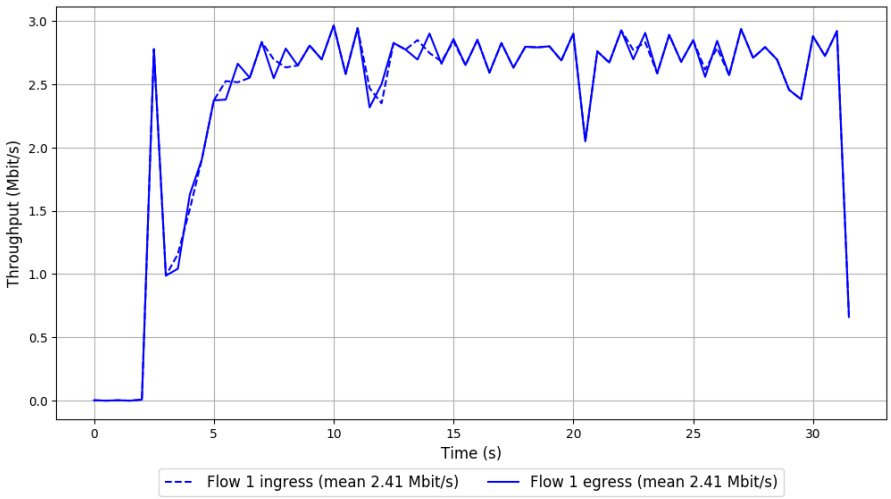


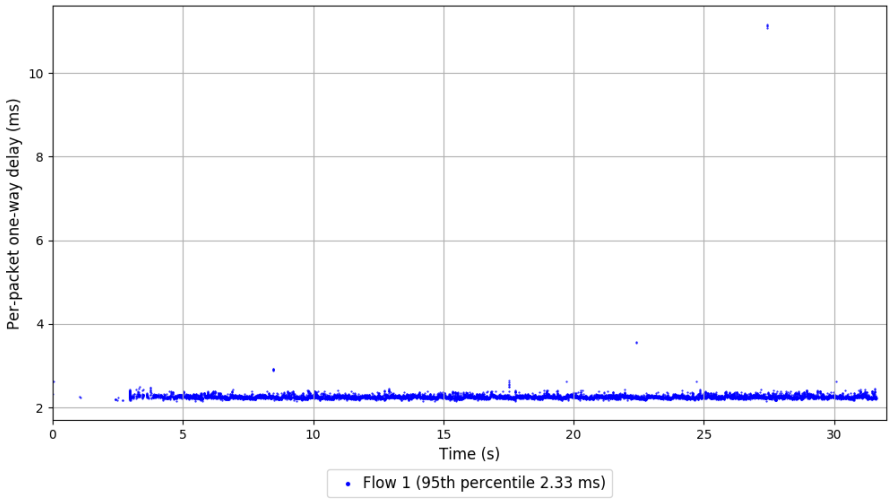
```
Run 7: Statistics of WebRTC media

Start at: 2017-09-21 11:13:19
End at: 2017-09-21 11:13:49
Local clock offset: -0.008 ms
Remote clock offset: 0.382 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 2.333 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 2.333 ms
Loss rate: 0.00%
```

Run 7: Report of WebRTC media — Data Link



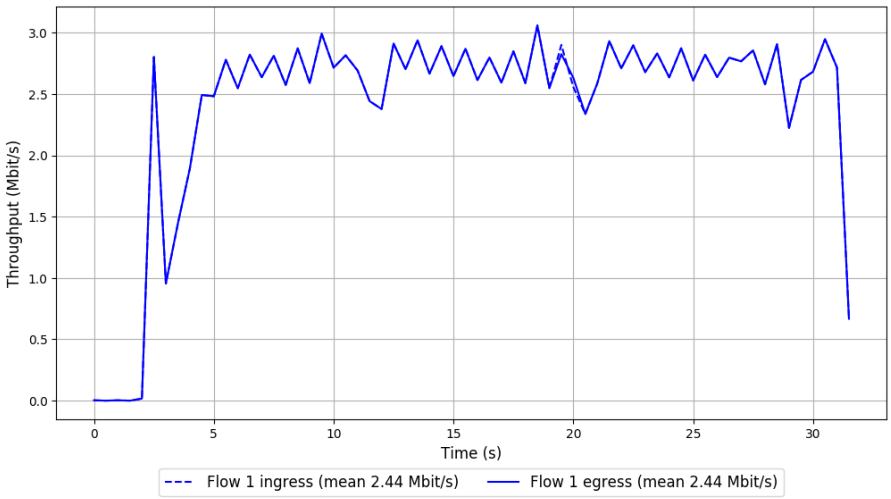


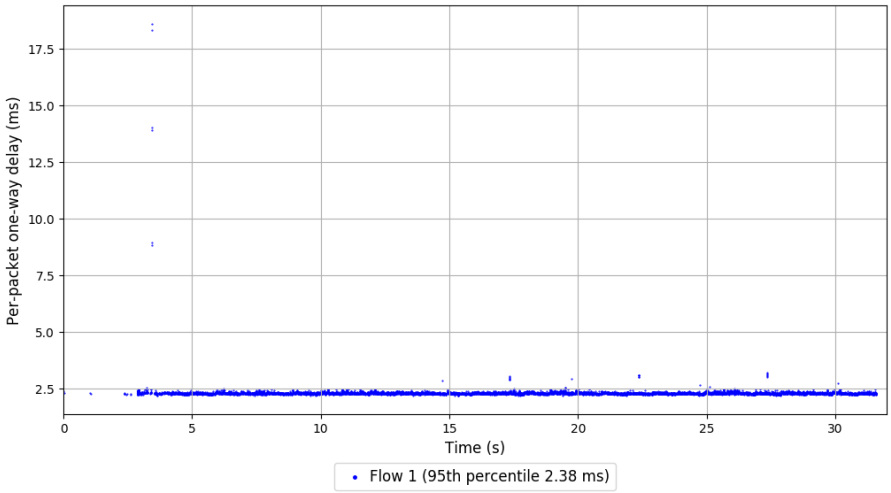
```
Run 8: Statistics of WebRTC media

Start at: 2017-09-21 11:31:32
End at: 2017-09-21 11:32:02
Local clock offset: 0.118 ms
Remote clock offset: 0.383 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.44 Mbit/s
95th percentile per-packet one-way delay: 2.379 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.44 Mbit/s
95th percentile per-packet one-way delay: 2.379 ms
Loss rate: 0.00%
```

Run 8: Report of WebRTC media — Data Link



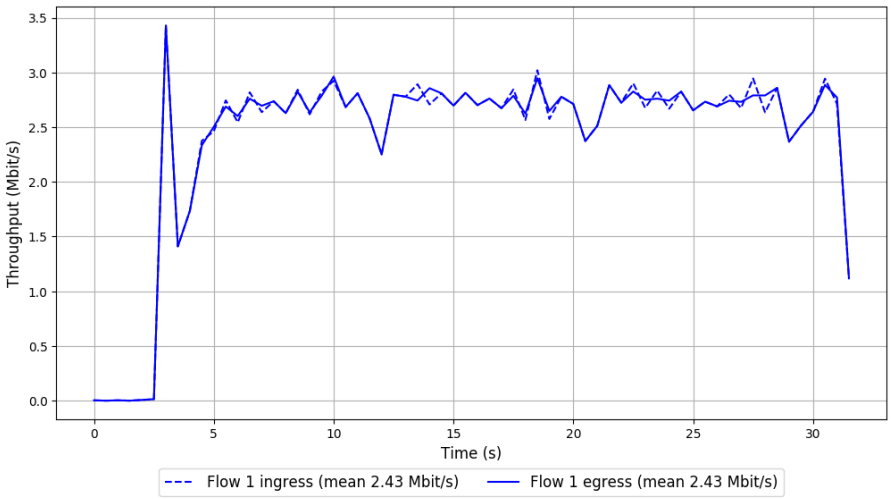


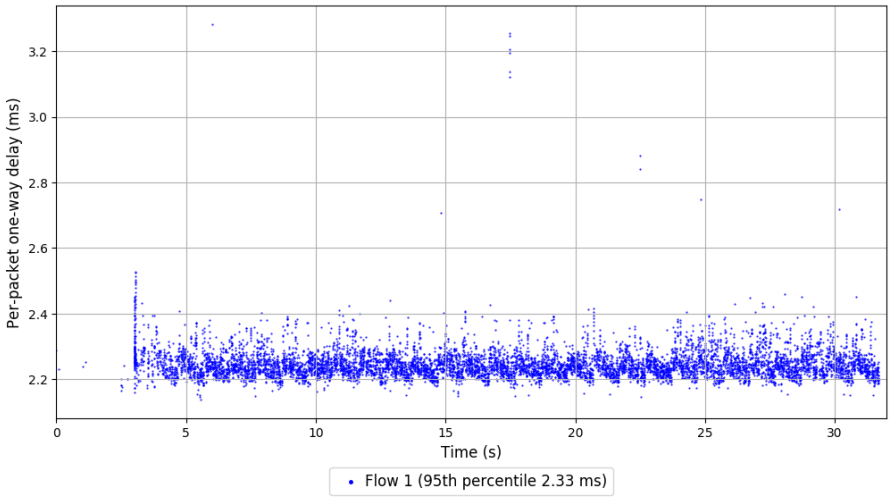
```
Run 9: Statistics of WebRTC media

Start at: 2017-09-21 11:49:55
End at: 2017-09-21 11:50:25
Local clock offset: 0.25 ms
Remote clock offset: 0.473 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 2.327 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 2.327 ms
Loss rate: 0.00%
```

Run 9: Report of WebRTC media — Data Link



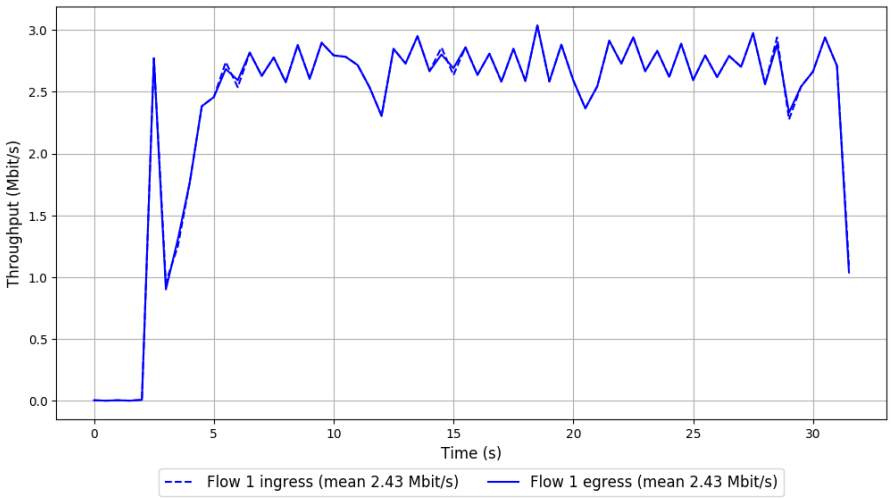


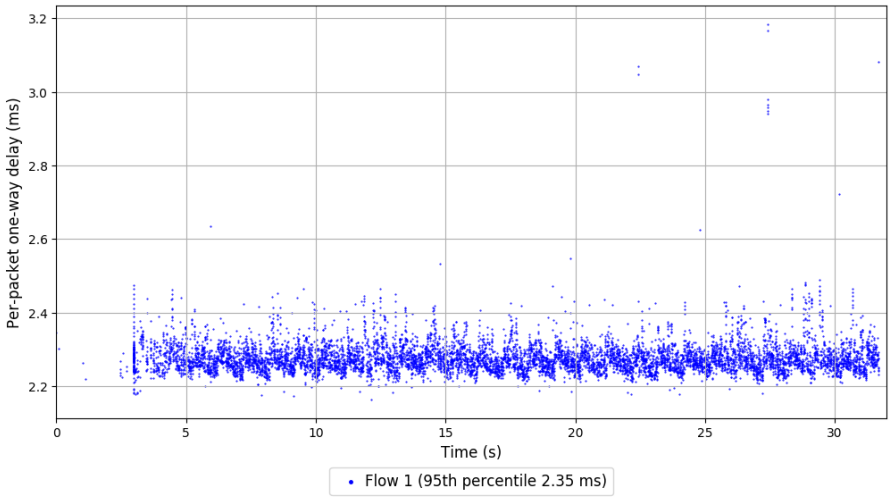
```
Run 10: Statistics of WebRTC media

Start at: 2017-09-21 12:08:22
End at: 2017-09-21 12:08:52
Local clock offset: 0.313 ms
Remote clock offset: 0.383 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 2.350 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 2.350 ms
Loss rate: 0.04%
```

Run 10: Report of WebRTC media — Data Link



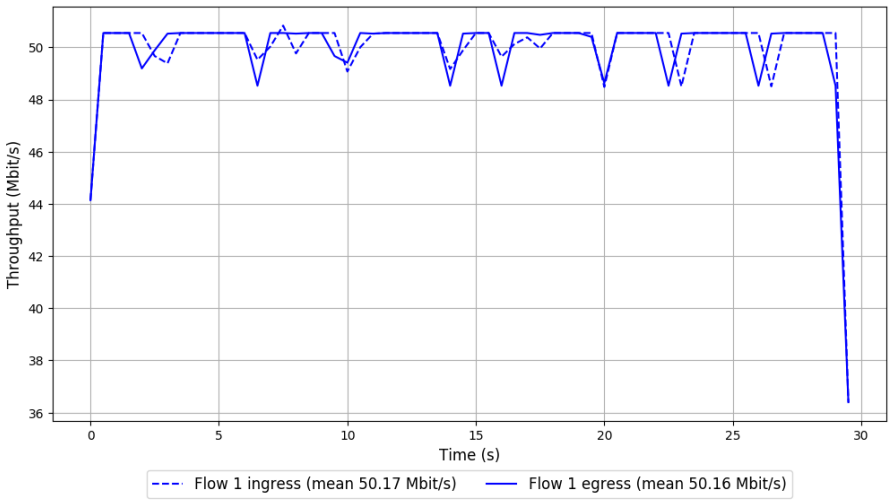


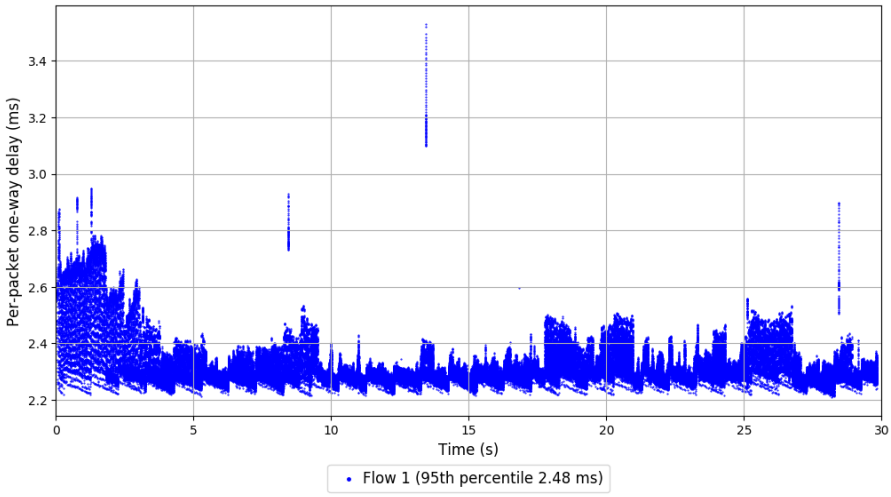
```
Run 1: Statistics of Sprout

Start at: 2017-09-21 09:33:55
End at: 2017-09-21 09:34:25
Local clock offset: -0.337 ms
Remote clock offset: -0.343 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.16 Mbit/s
95th percentile per-packet one-way delay: 2.484 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 50.16 Mbit/s
95th percentile per-packet one-way delay: 2.484 ms
Loss rate: 0.07%
```

Run 1: Report of Sprout — Data Link



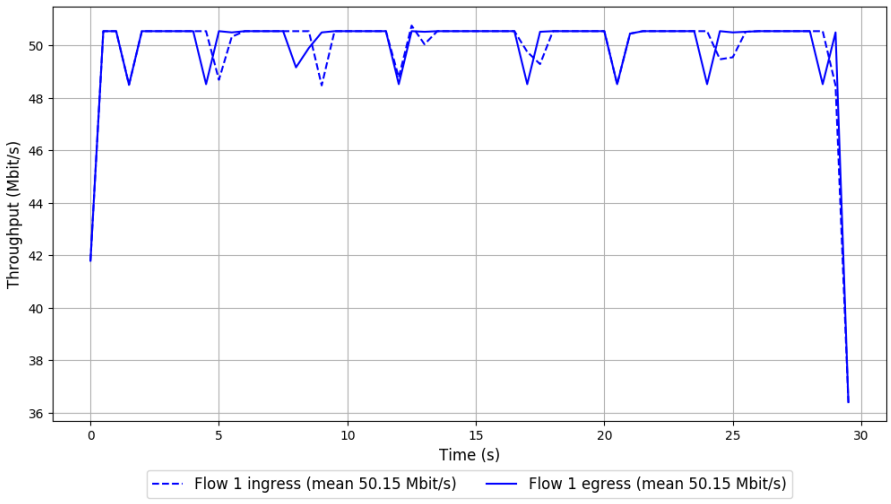


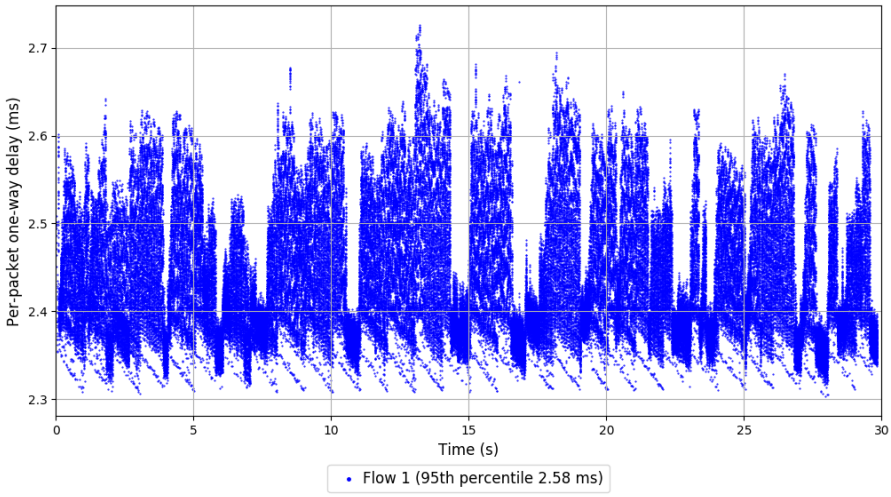
```
Run 2: Statistics of Sprout

Start at: 2017-09-21 09:51:59
End at: 2017-09-21 09:52:29
Local clock offset: -0.255 ms
Remote clock offset: -0.189 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.15 Mbit/s
95th percentile per-packet one-way delay: 2.576 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.15 Mbit/s
95th percentile per-packet one-way delay: 2.576 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link



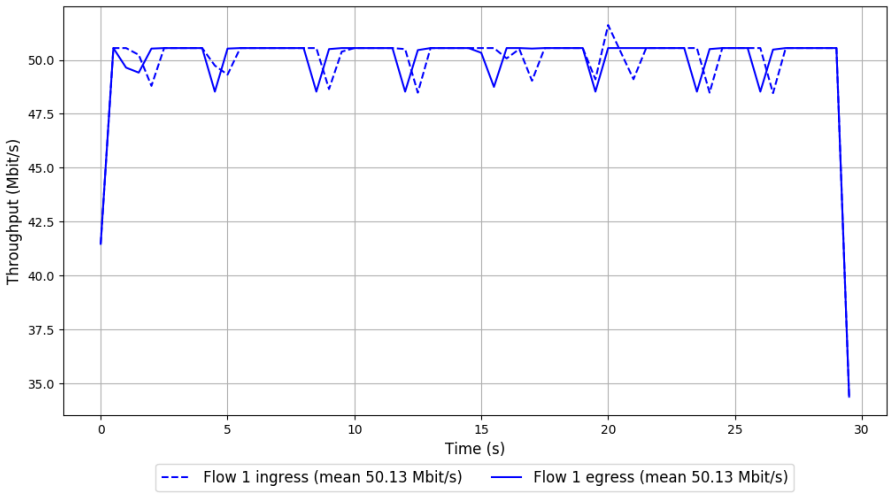


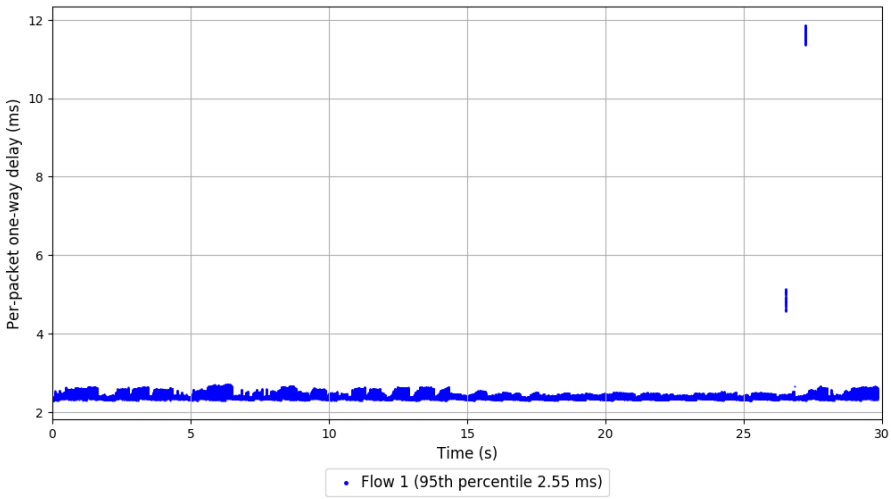
```
Run 3: Statistics of Sprout

Start at: 2017-09-21 10:10:15
End at: 2017-09-21 10:10:45
Local clock offset: -0.189 ms
Remote clock offset: 0.044 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.13 Mbit/s
95th percentile per-packet one-way delay: 2.549 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.13 Mbit/s
95th percentile per-packet one-way delay: 2.549 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link



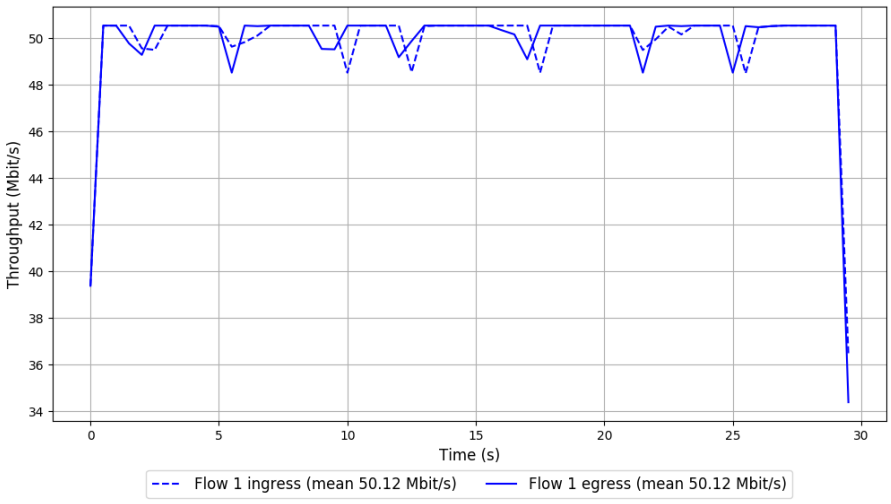


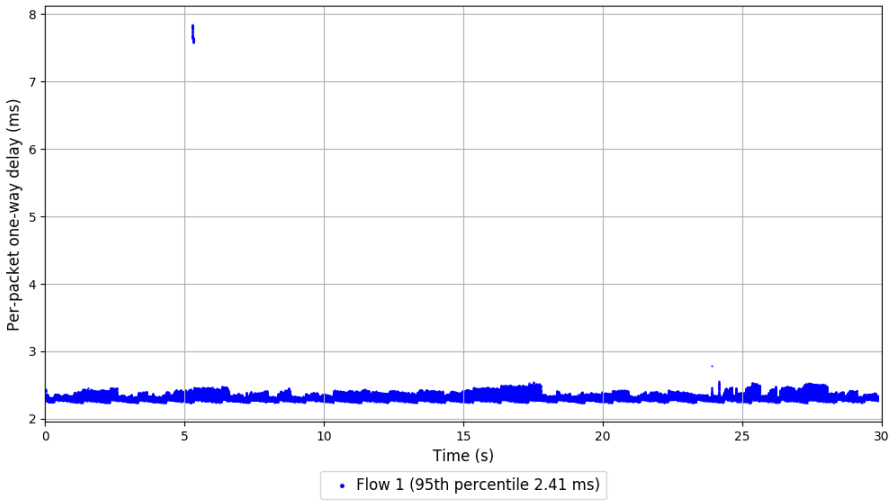
```
Run 4: Statistics of Sprout

Start at: 2017-09-21 10:28:17
End at: 2017-09-21 10:28:47
Local clock offset: -0.162 ms
Remote clock offset: 0.236 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.12 Mbit/s
95th percentile per-packet one-way delay: 2.409 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 50.12 Mbit/s
95th percentile per-packet one-way delay: 2.409 ms
Loss rate: 0.07%
```

Run 4: Report of Sprout — Data Link



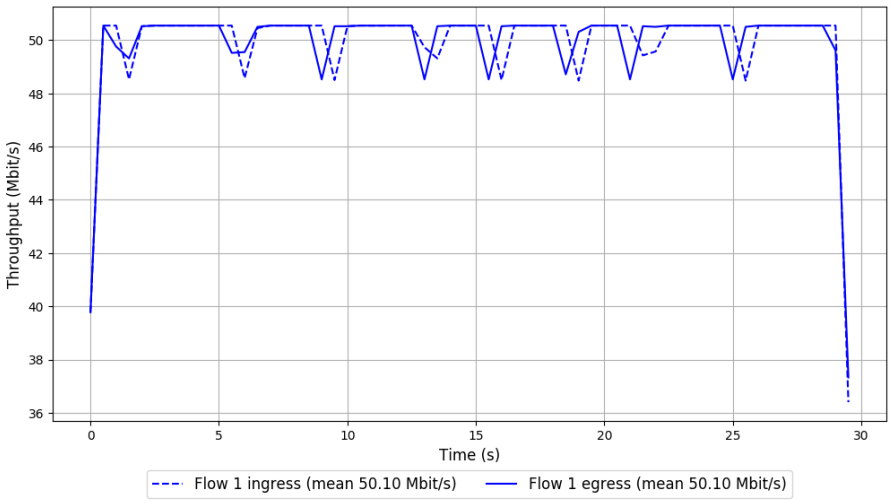


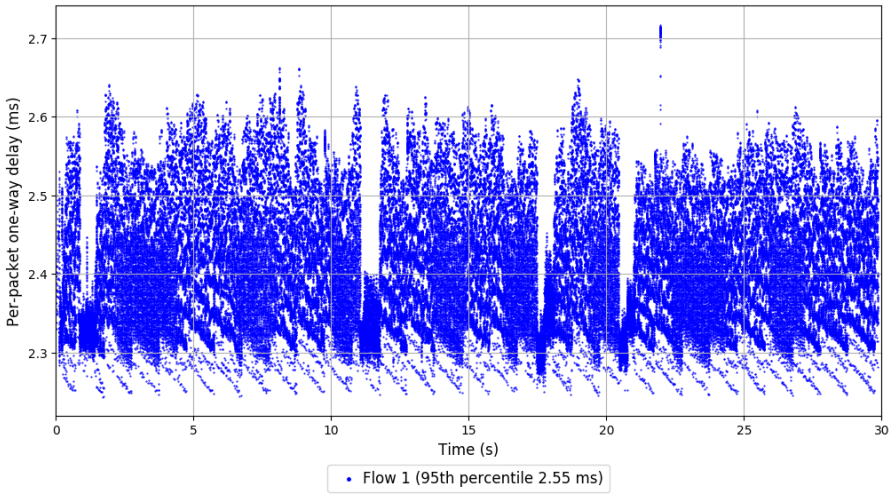
```
Run 5: Statistics of Sprout

Start at: 2017-09-21 10:46:42
End at: 2017-09-21 10:47:12
Local clock offset: -0.078 ms
Remote clock offset: 0.381 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.10 Mbit/s
95th percentile per-packet one-way delay: 2.552 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.10 Mbit/s
95th percentile per-packet one-way delay: 2.552 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link



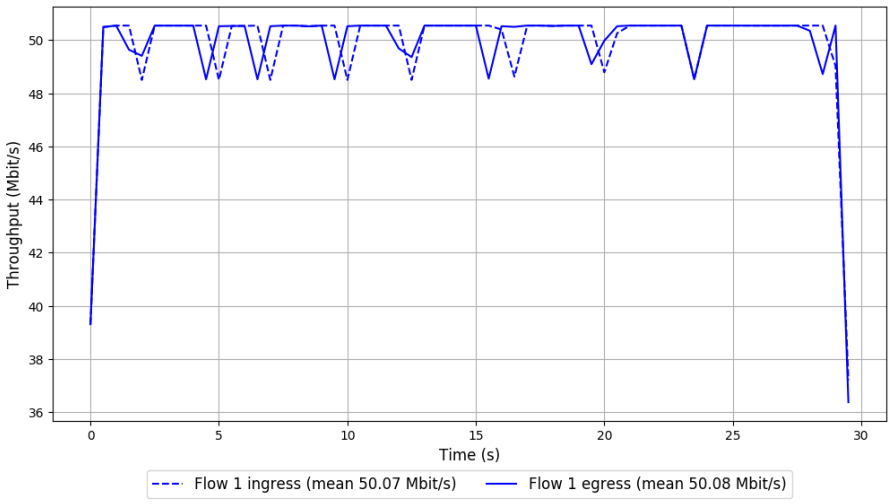


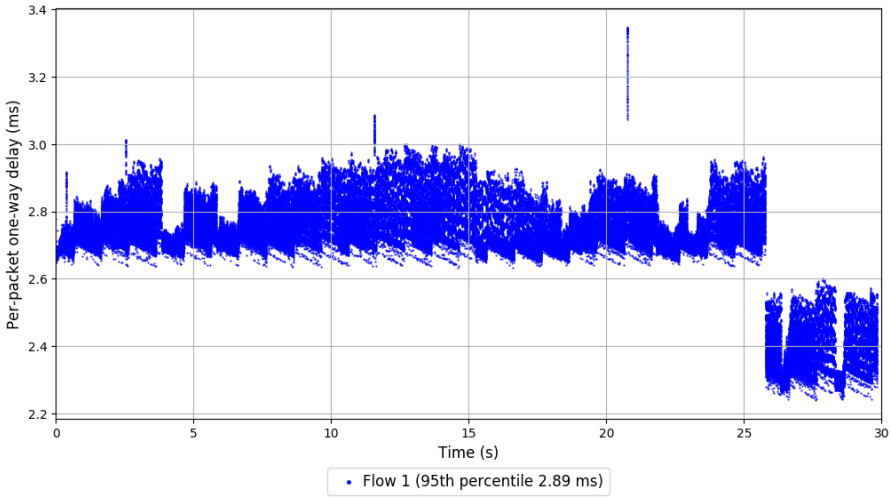
```
Run 6: Statistics of Sprout

Start at: 2017-09-21 11:05:09
End at: 2017-09-21 11:05:39
Local clock offset: 0.025 ms
Remote clock offset: 0.42 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.08 Mbit/s
95th percentile per-packet one-way delay: 2.892 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 50.08 Mbit/s
95th percentile per-packet one-way delay: 2.892 ms
Loss rate: 0.04%
```

Run 6: Report of Sprout — Data Link



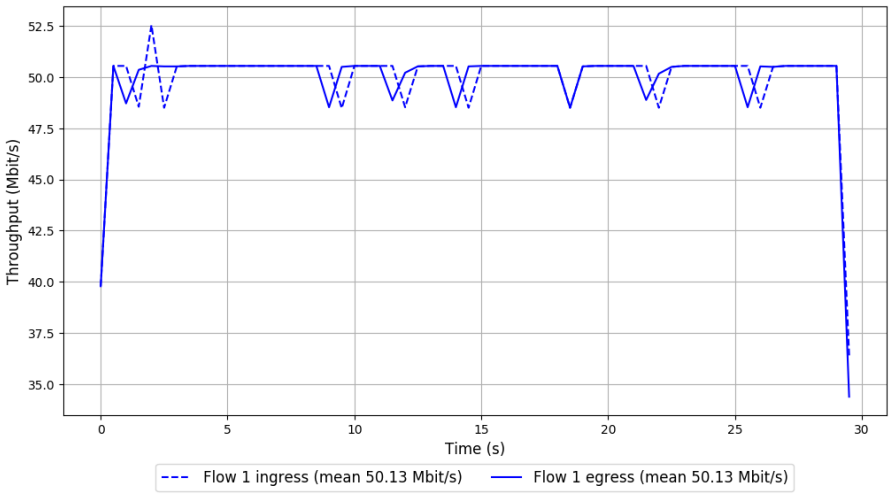


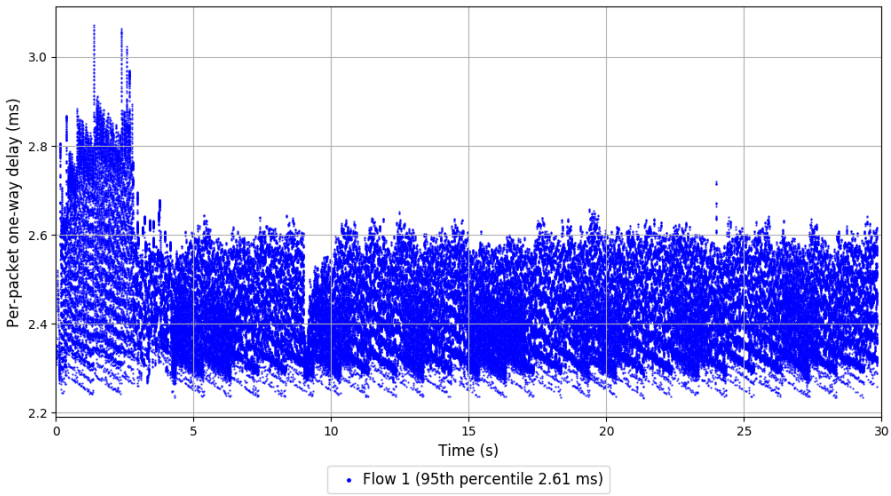
```
Run 7: Statistics of Sprout

Start at: 2017-09-21 11:23:20
End at: 2017-09-21 11:23:50
Local clock offset: 0.078 ms
Remote clock offset: 0.398 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.13 Mbit/s
95th percentile per-packet one-way delay: 2.613 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 50.13 Mbit/s
95th percentile per-packet one-way delay: 2.613 ms
Loss rate: 0.07%
```

Run 7: Report of Sprout — Data Link



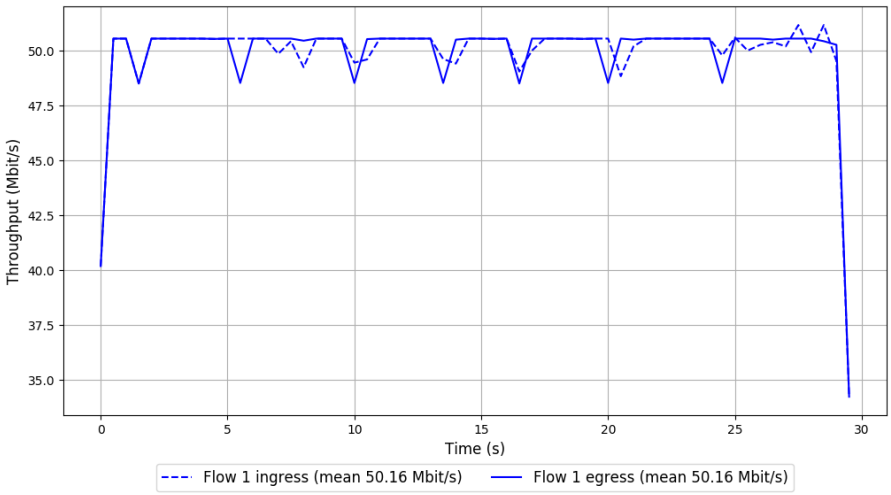


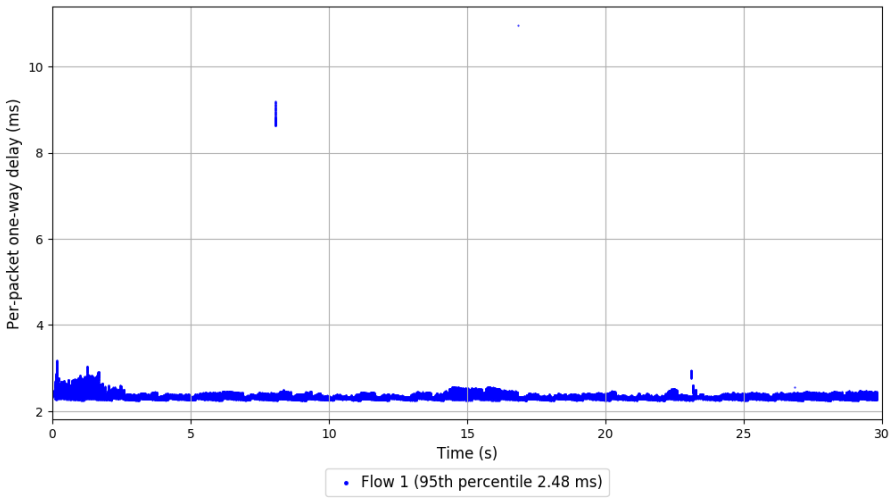
```
Run 8: Statistics of Sprout

Start at: 2017-09-21 11:41:35
End at: 2017-09-21 11:42:05
Local clock offset: 0.174 ms
Remote clock offset: 0.411 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.16 Mbit/s
95th percentile per-packet one-way delay: 2.480 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.16 Mbit/s
95th percentile per-packet one-way delay: 2.480 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link



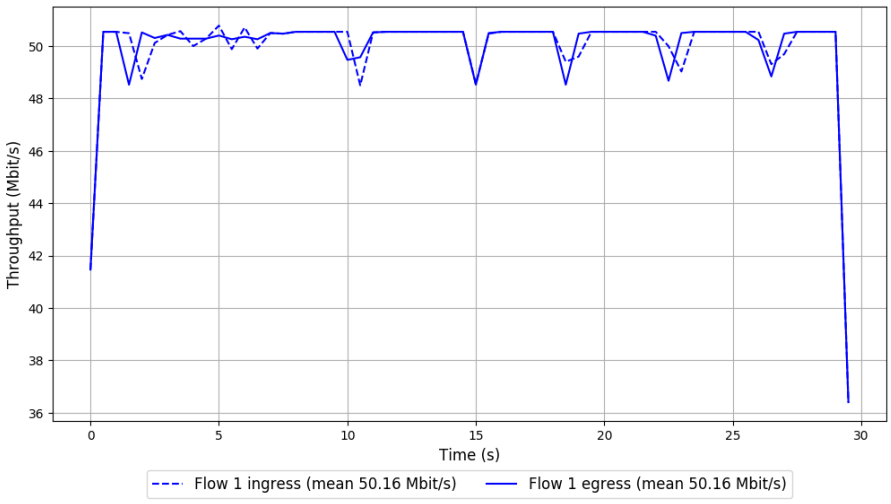


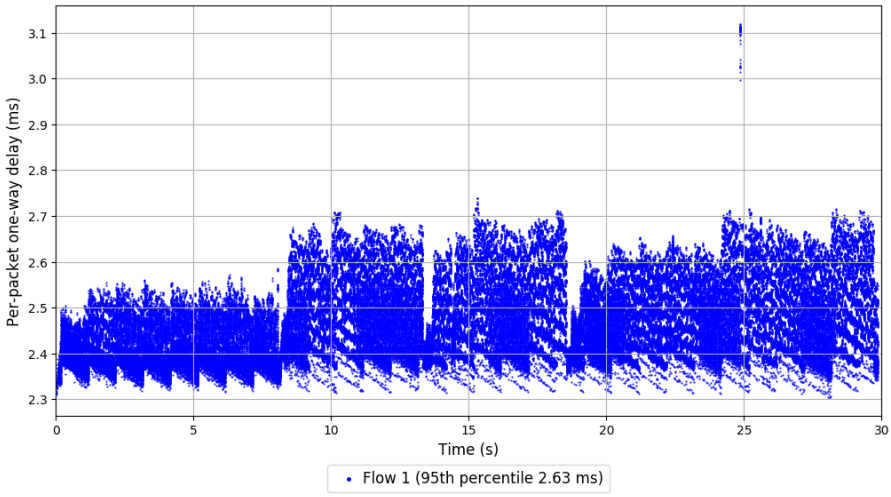
```
Run 9: Statistics of Sprout

Start at: 2017-09-21 11:59:53
End at: 2017-09-21 12:00:23
Local clock offset: 0.3 ms
Remote clock offset: 0.358 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.16 Mbit/s
95th percentile per-packet one-way delay: 2.626 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.16 Mbit/s
95th percentile per-packet one-way delay: 2.626 ms
Loss rate: 0.00%
```

Run 9: Report of Sprout — Data Link



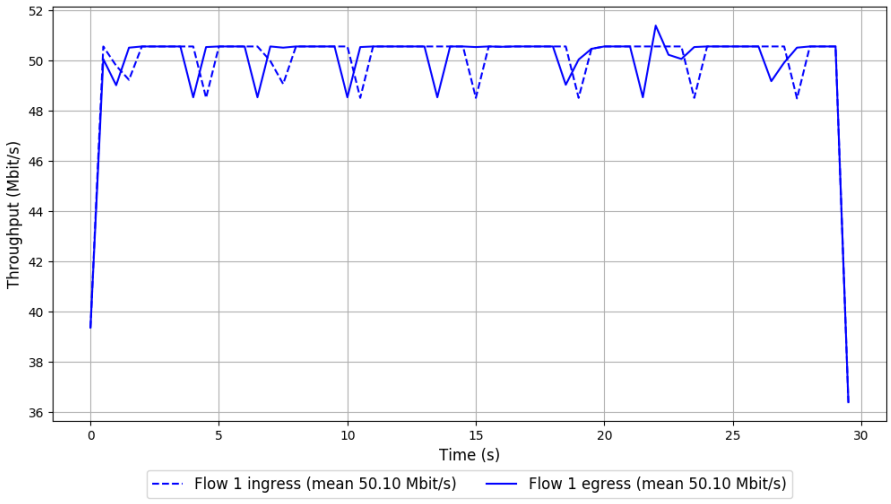


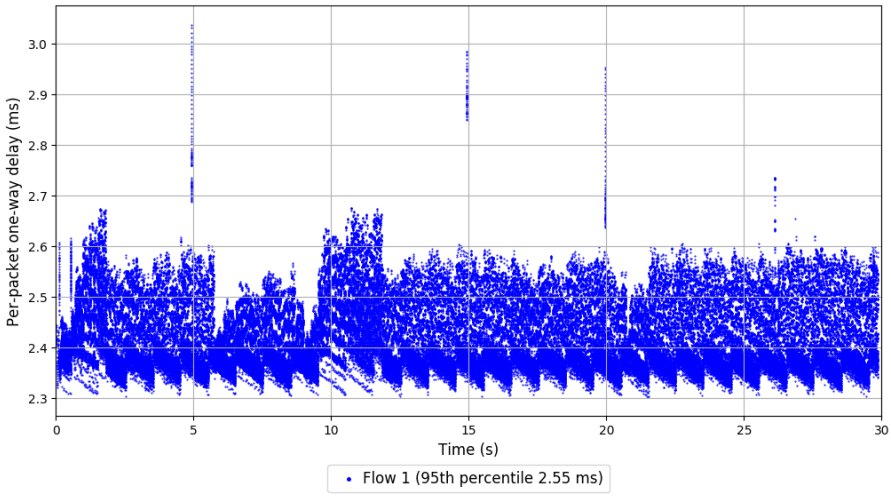
```
Run 10: Statistics of Sprout

Start at: 2017-09-21 12:18:12
End at: 2017-09-21 12:18:42
Local clock offset: 0.325 ms
Remote clock offset: 0.271 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.10 Mbit/s
95th percentile per-packet one-way delay: 2.554 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.10 Mbit/s
95th percentile per-packet one-way delay: 2.554 ms
Loss rate: 0.00%
```

Run 10: Report of Sprout — Data Link



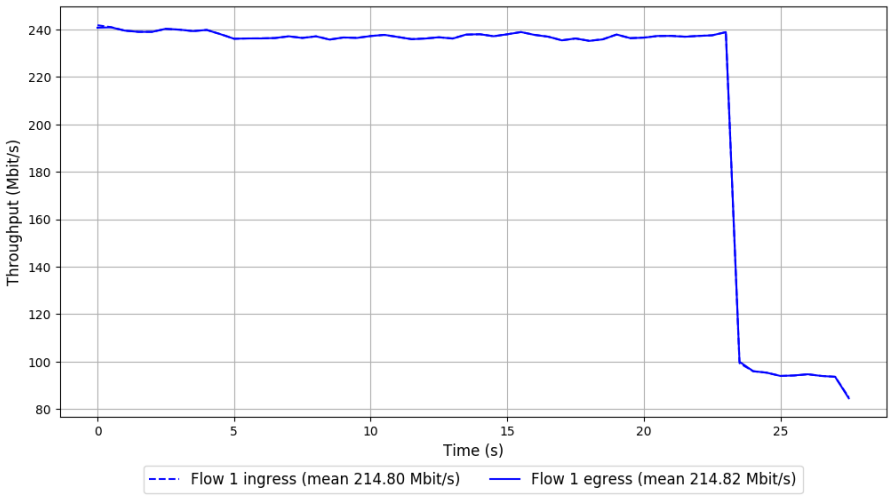


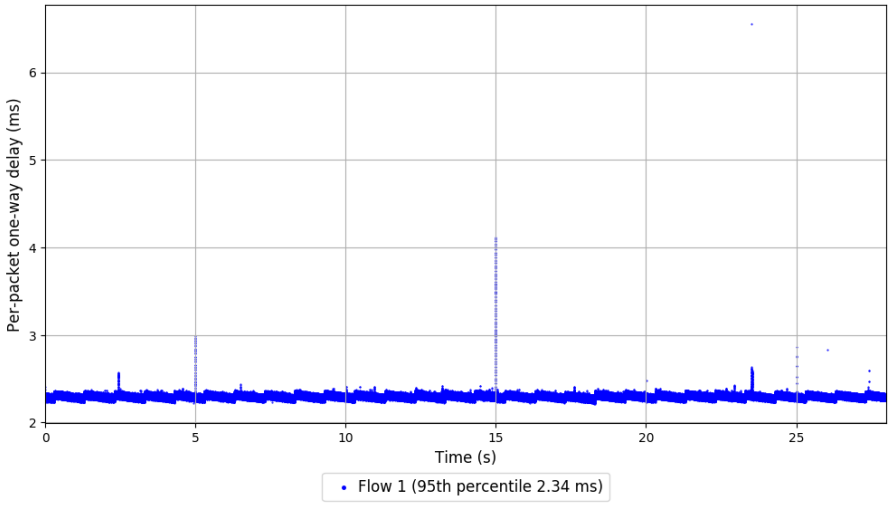
```
Run 1: Statistics of TaoVA-100x

Start at: 2017-09-21 09:28:59
End at: 2017-09-21 09:29:29
Local clock offset: -0.33 ms
Remote clock offset: -0.404 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 214.82 Mbit/s
95th percentile per-packet one-way delay: 2.336 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 214.82 Mbit/s
95th percentile per-packet one-way delay: 2.336 ms
Loss rate: 0.01%
```

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



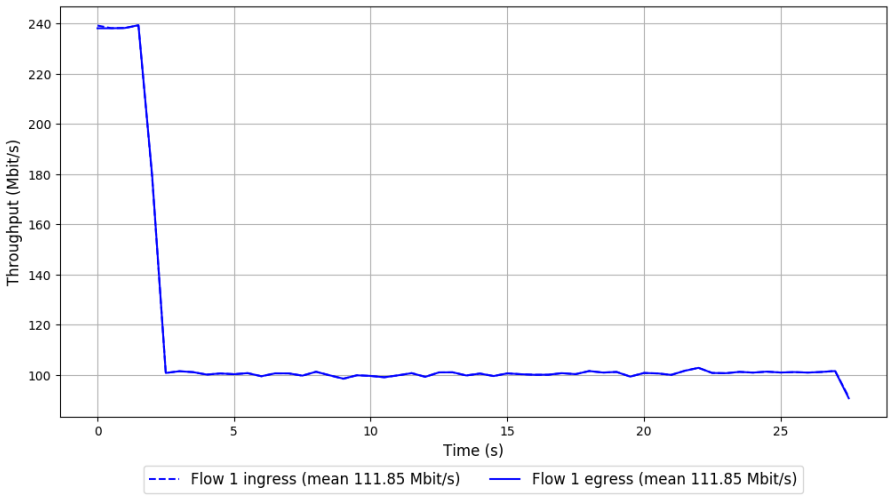


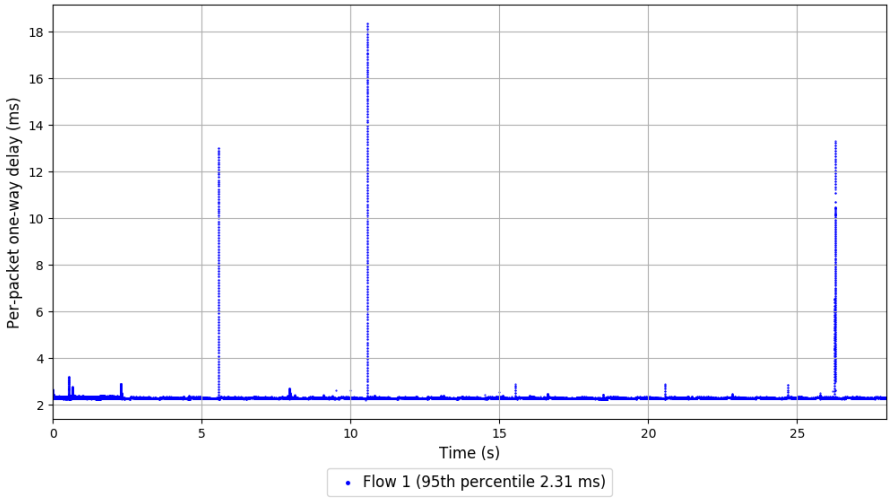
```
Run 2: Statistics of TaoVA-100x

Start at: 2017-09-21 09:47:10
End at: 2017-09-21 09:47:40
Local clock offset: -0.356 ms
Remote clock offset: -0.264 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 111.85 Mbit/s
95th percentile per-packet one-way delay: 2.312 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 111.85 Mbit/s
95th percentile per-packet one-way delay: 2.312 ms
Loss rate: 0.01%
```

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



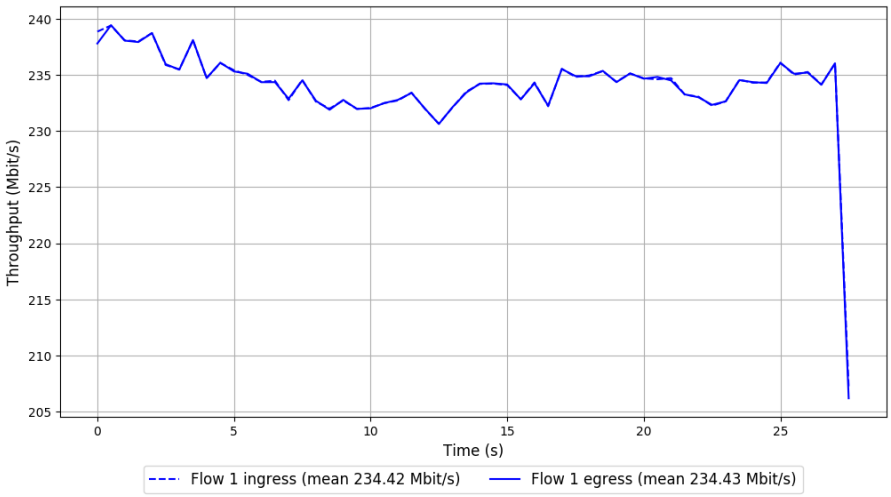


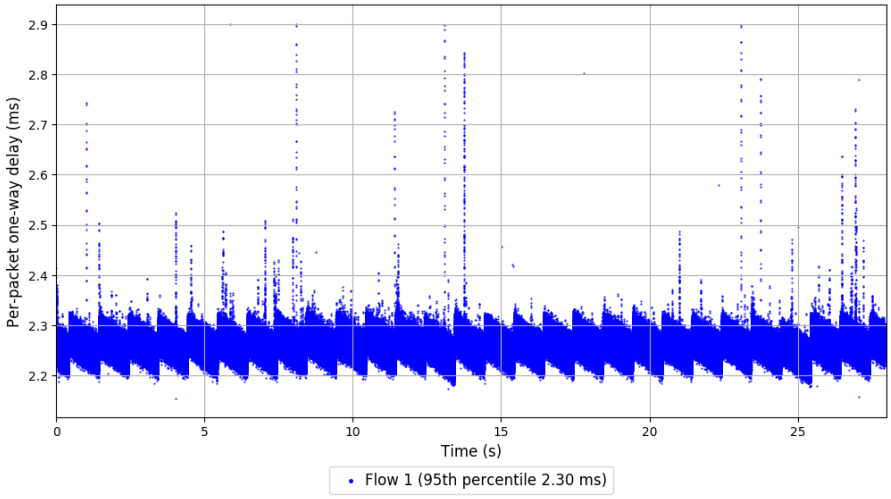
```
Run 3: Statistics of TaoVA-100x

Start at: 2017-09-21 10:05:19
End at: 2017-09-21 10:05:49
Local clock offset: -0.22 ms
Remote clock offset: 0.073 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 234.43 Mbit/s
95th percentile per-packet one-way delay: 2.298 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 234.43 Mbit/s
95th percentile per-packet one-way delay: 2.298 ms
Loss rate: 0.02%
```

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



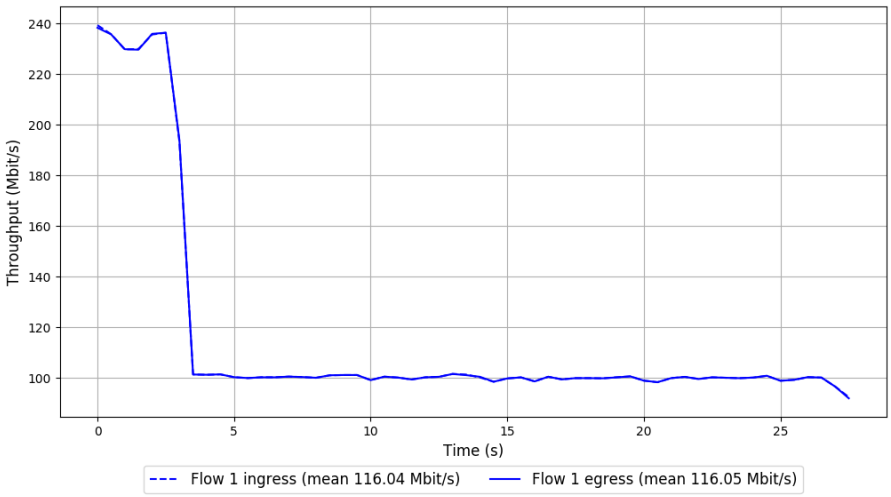


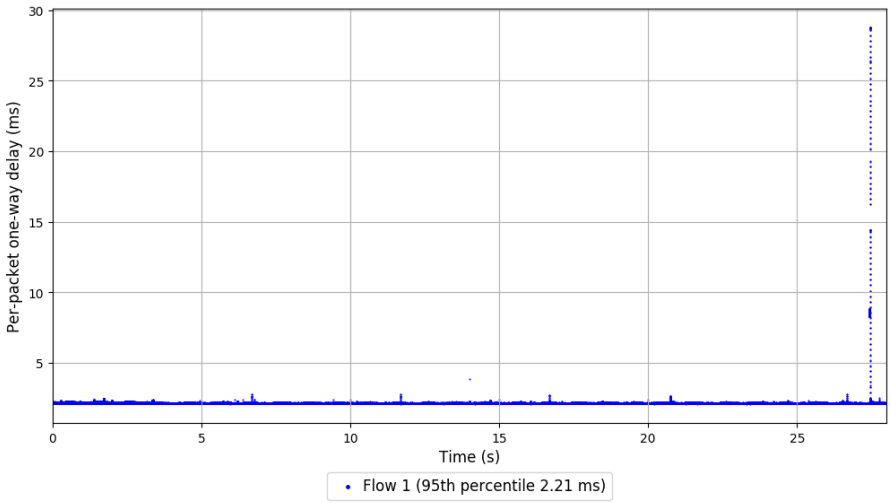
```
Run 4: Statistics of TaoVA-100x

Start at: 2017-09-21 10:23:26
End at: 2017-09-21 10:23:56
Local clock offset: -0.257 ms
Remote clock offset: 0.178 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 116.05 Mbit/s
95th percentile per-packet one-way delay: 2.208 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 116.05 Mbit/s
95th percentile per-packet one-way delay: 2.208 ms
Loss rate: 0.01%
```

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



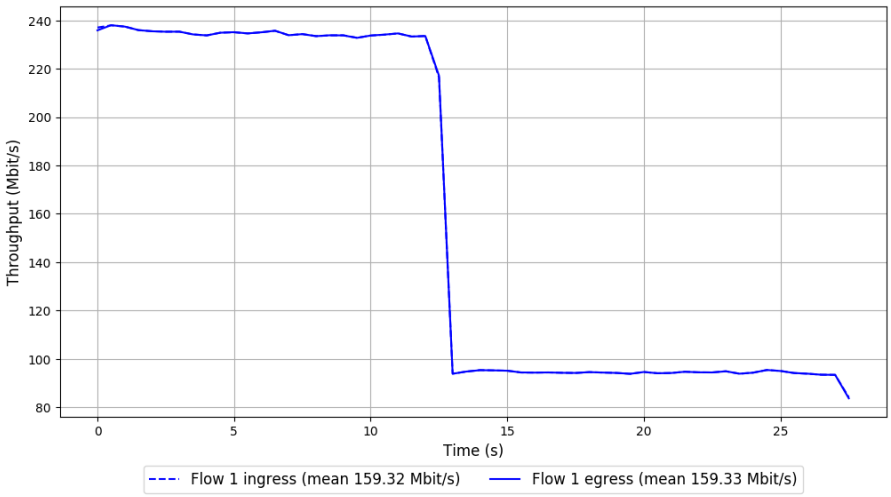


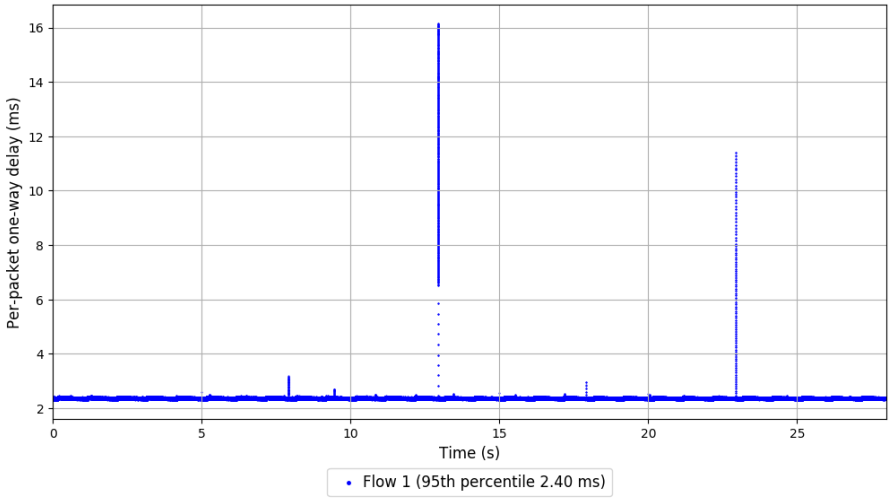
```
Run 5: Statistics of TaoVA-100x

Start at: 2017-09-21 10:41:48
End at: 2017-09-21 10:42:19
Local clock offset: -0.083 ms
Remote clock offset: 0.296 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 159.33 Mbit/s
95th percentile per-packet one-way delay: 2.405 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 159.33 Mbit/s
95th percentile per-packet one-way delay: 2.405 ms
Loss rate: 0.01%
```

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



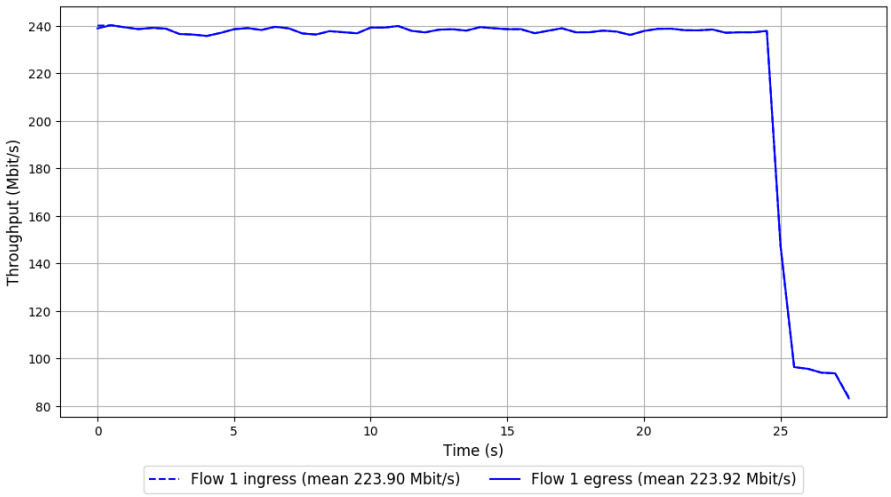


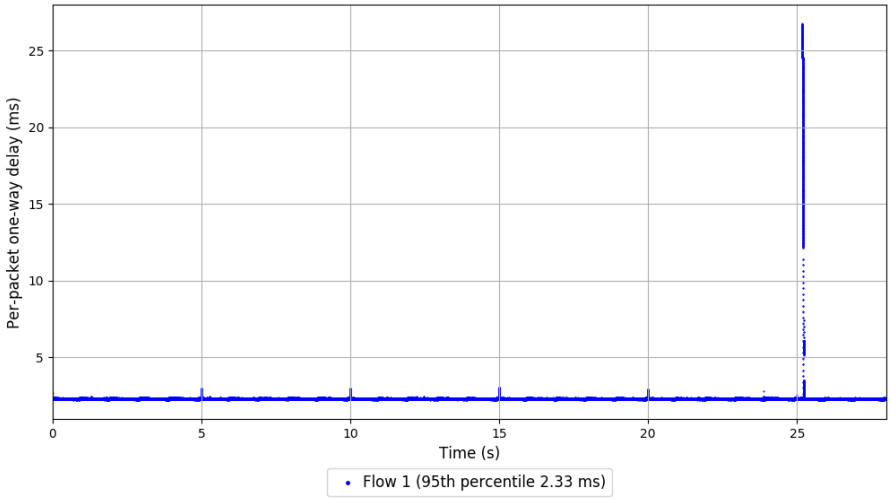
```
Run 6: Statistics of TaoVA-100x

Start at: 2017-09-21 11:00:05
End at: 2017-09-21 11:00:35
Local clock offset: -0.002 ms
Remote clock offset: 0.422 ms

# Below is generated by plot.py at 2017-09-21 16:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.92 Mbit/s
95th percentile per-packet one-way delay: 2.331 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 223.92 Mbit/s
95th percentile per-packet one-way delay: 2.331 ms
Loss rate: 0.01%
```

Run 6: Report of TaoVA-100x — Data Link



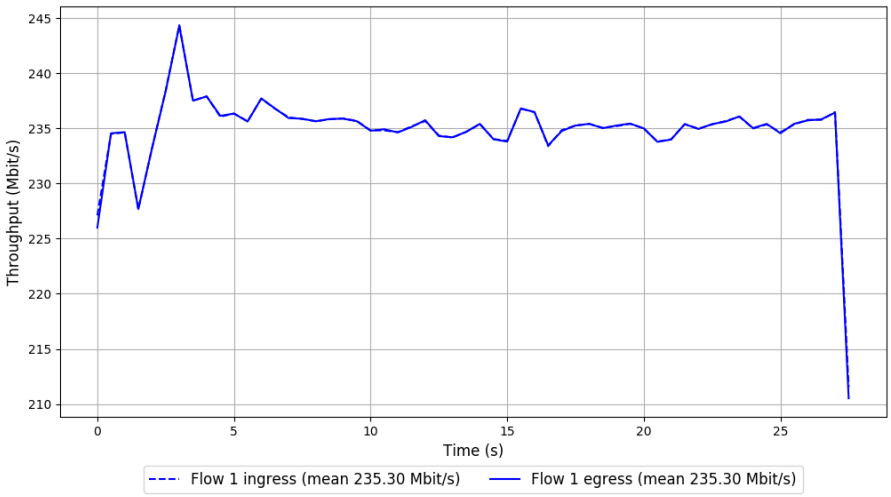


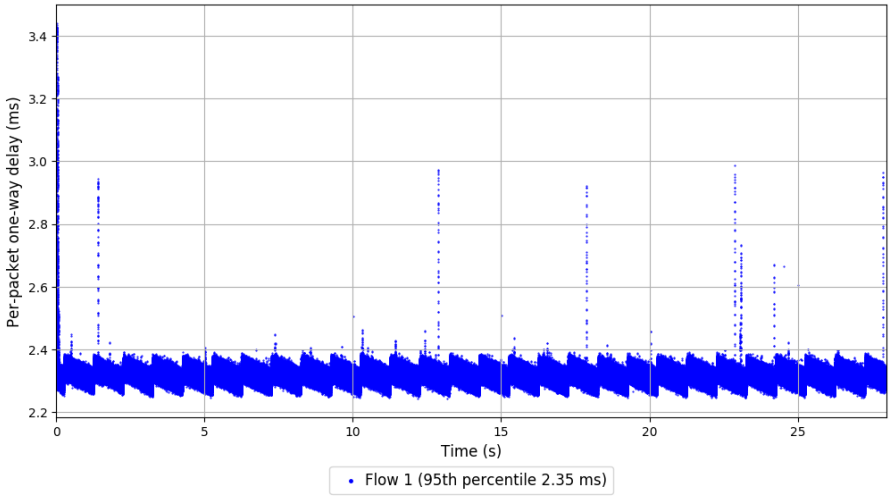
```
Run 7: Statistics of TaoVA-100x

Start at: 2017-09-21 11:18:20
End at: 2017-09-21 11:18:50
Local clock offset: 0.052 ms
Remote clock offset: 0.345 ms

# Below is generated by plot.py at 2017-09-21 16:31:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 235.30 Mbit/s
95th percentile per-packet one-way delay: 2.355 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 235.30 Mbit/s
95th percentile per-packet one-way delay: 2.355 ms
Loss rate: 0.02%
```

Run 7: Report of TaoVA-100x — Data Link



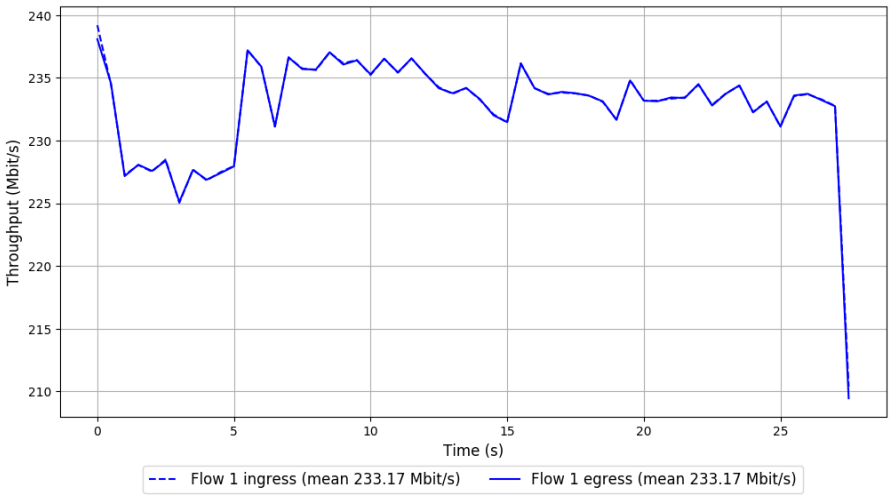


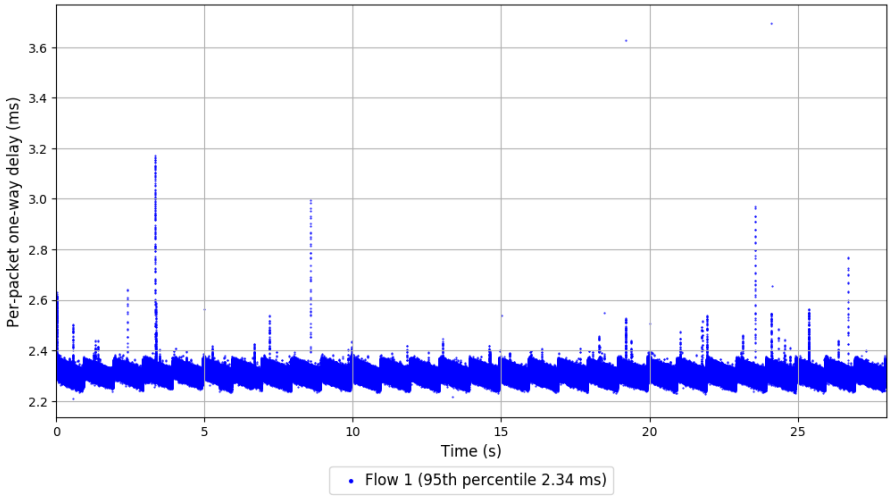
```
Run 8: Statistics of TaoVA-100x

Start at: 2017-09-21 11:36:33
End at: 2017-09-21 11:37:03
Local clock offset: 0.179 ms
Remote clock offset: 0.43 ms

# Below is generated by plot.py at 2017-09-21 16:31:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 233.17 Mbit/s
95th percentile per-packet one-way delay: 2.344 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 233.17 Mbit/s
95th percentile per-packet one-way delay: 2.344 ms
Loss rate: 0.02%
```

Run 8: Report of TaoVA-100x — Data Link



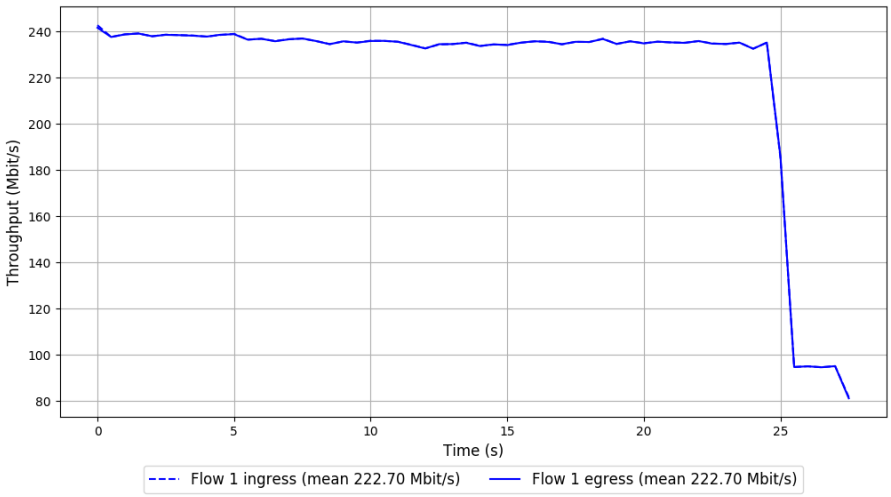


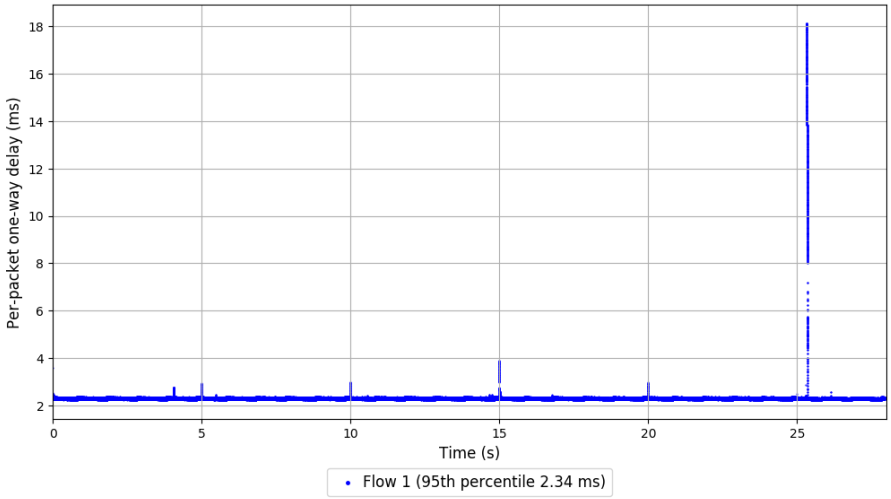
```
Run 9: Statistics of TaoVA-100x

Start at: 2017-09-21 11:54:52
End at: 2017-09-21 11:55:22
Local clock offset: 0.275 ms
Remote clock offset: 0.419 ms

# Below is generated by plot.py at 2017-09-21 16:31:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.70 Mbit/s
95th percentile per-packet one-way delay: 2.336 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 222.70 Mbit/s
95th percentile per-packet one-way delay: 2.336 ms
Loss rate: 0.02%
```

Run 9: Report of TaoVA-100x — Data Link



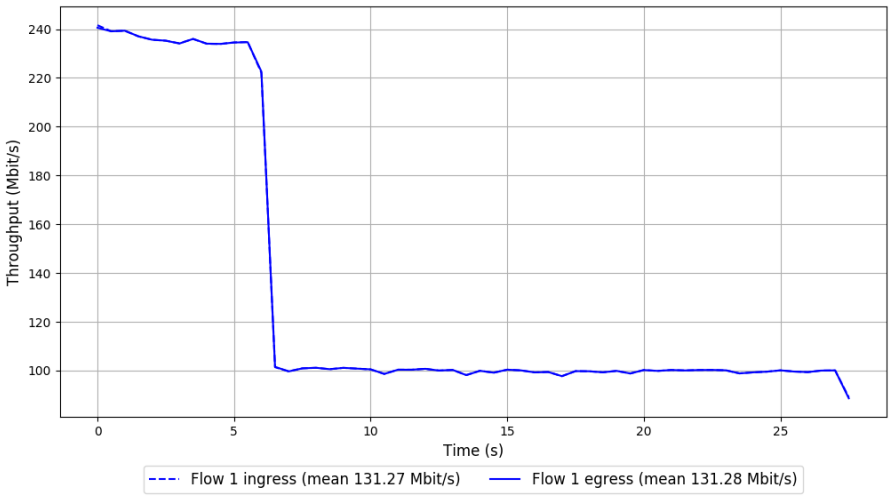


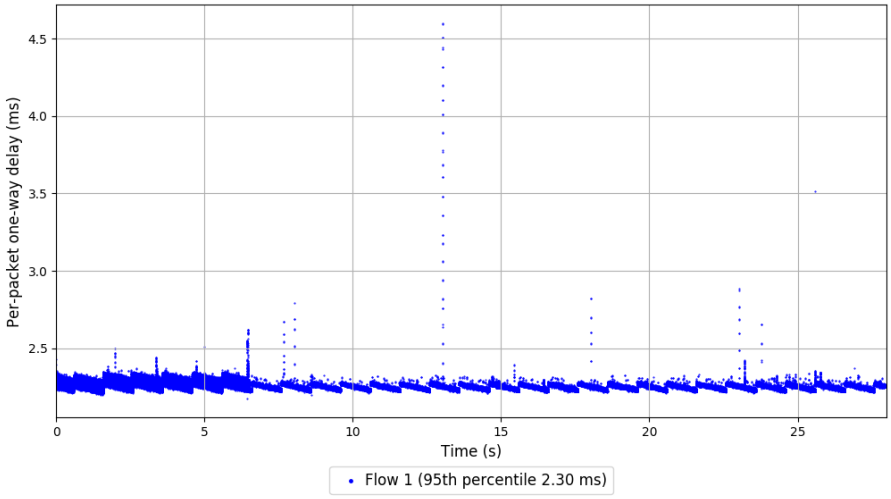
```
Run 10: Statistics of TaoVA-100x

Start at: 2017-09-21 12:13:23
End at: 2017-09-21 12:13:53
Local clock offset: 0.324 ms
Remote clock offset: 0.368 ms

# Below is generated by plot.py at 2017-09-21 16:31:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 131.28 Mbit/s
95th percentile per-packet one-way delay: 2.304 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 131.28 Mbit/s
95th percentile per-packet one-way delay: 2.304 ms
Loss rate: 0.01%
```

Run 10: Report of TaoVA-100x — Data Link



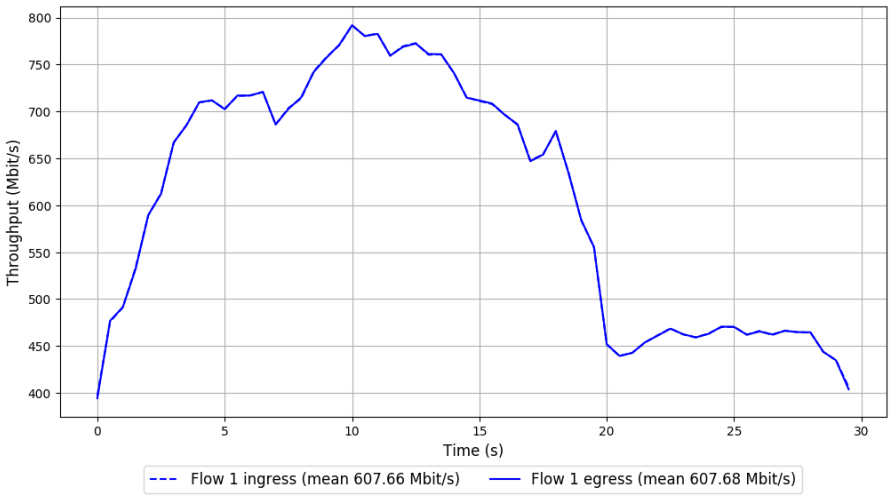


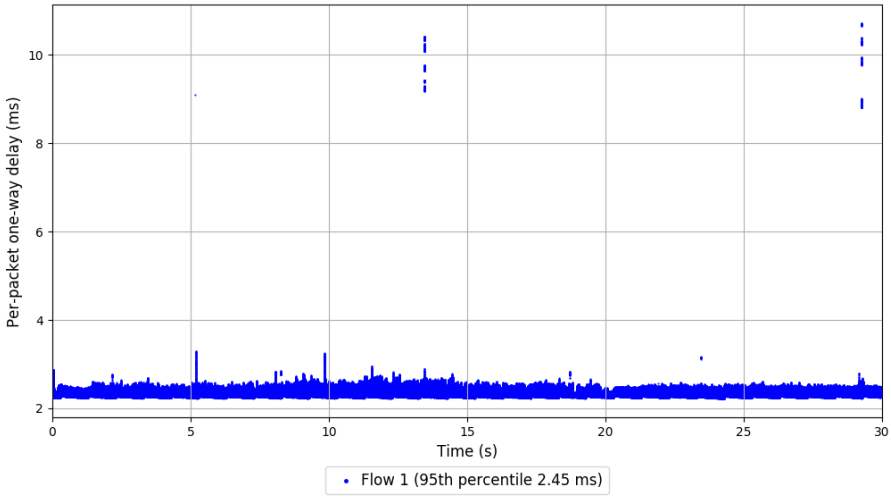
```
Run 1: Statistics of TCP Vegas

Start at: 2017-09-21 09:22:30
End at: 2017-09-21 09:23:00
Local clock offset: -0.367 ms
Remote clock offset: -0.463 ms

# Below is generated by plot.py at 2017-09-21 16:36:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 607.68 Mbit/s
95th percentile per-packet one-way delay: 2.450 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 607.68 Mbit/s
95th percentile per-packet one-way delay: 2.450 ms
Loss rate: 0.01%
```

Run 1: Report of TCP Vegas — Data Link



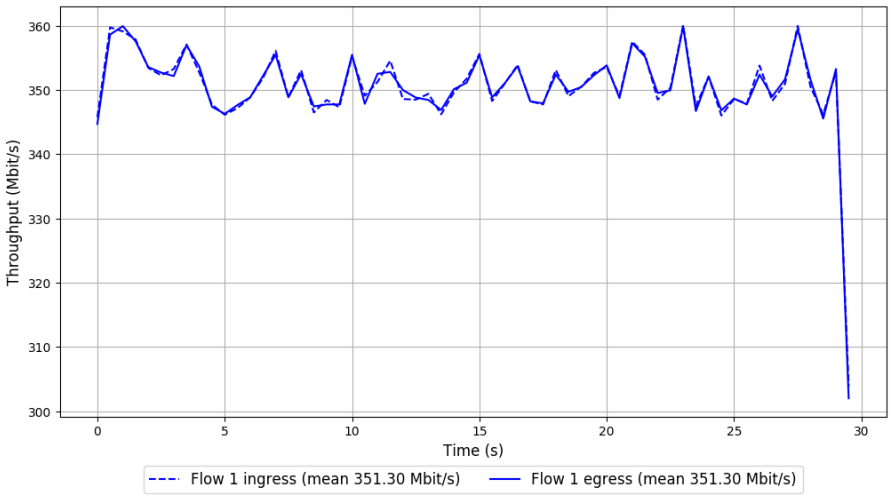


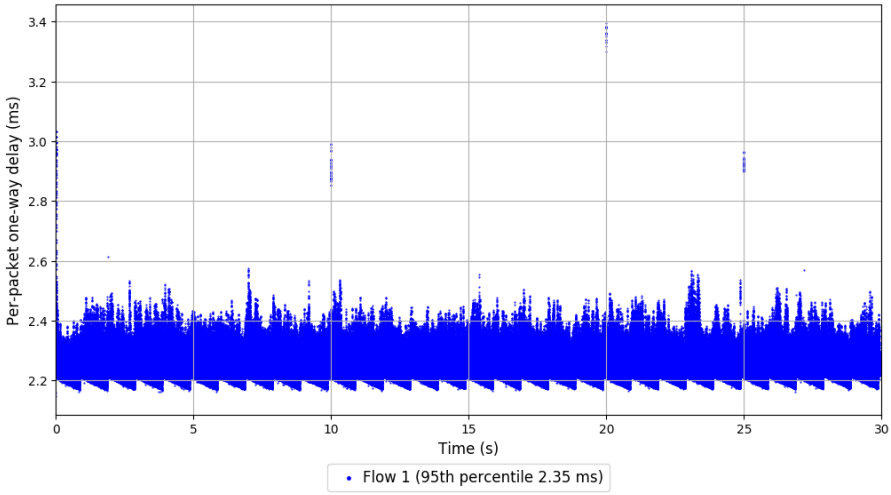
```
Run 2: Statistics of TCP Vegas

Start at: 2017-09-21 09:40:51
End at: 2017-09-21 09:41:21
Local clock offset: -0.351 ms
Remote clock offset: -0.247 ms

# Below is generated by plot.py at 2017-09-21 16:36:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 351.30 Mbit/s
95th percentile per-packet one-way delay: 2.349 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 351.30 Mbit/s
95th percentile per-packet one-way delay: 2.349 ms
Loss rate: 0.02%
```

Run 2: Report of TCP Vegas — Data Link



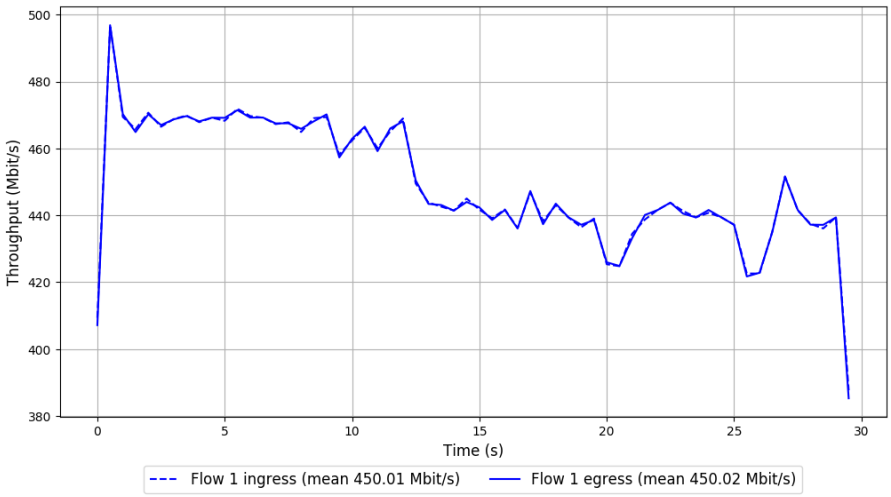


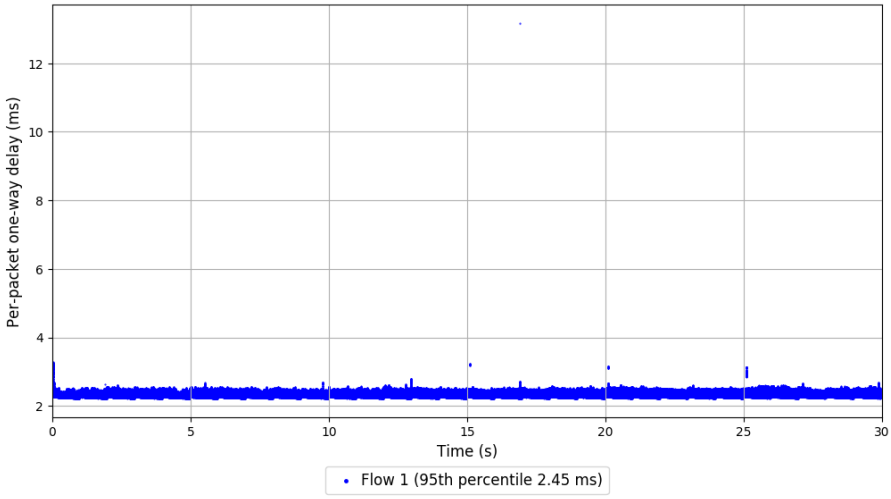
```
Run 3: Statistics of TCP Vegas

Start at: 2017-09-21 09:58:57
End at: 2017-09-21 09:59:27
Local clock offset: -0.287 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2017-09-21 16:36:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 450.02 Mbit/s
95th percentile per-packet one-way delay: 2.449 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 450.02 Mbit/s
95th percentile per-packet one-way delay: 2.449 ms
Loss rate: 0.01%
```

Run 3: Report of TCP Vegas — Data Link



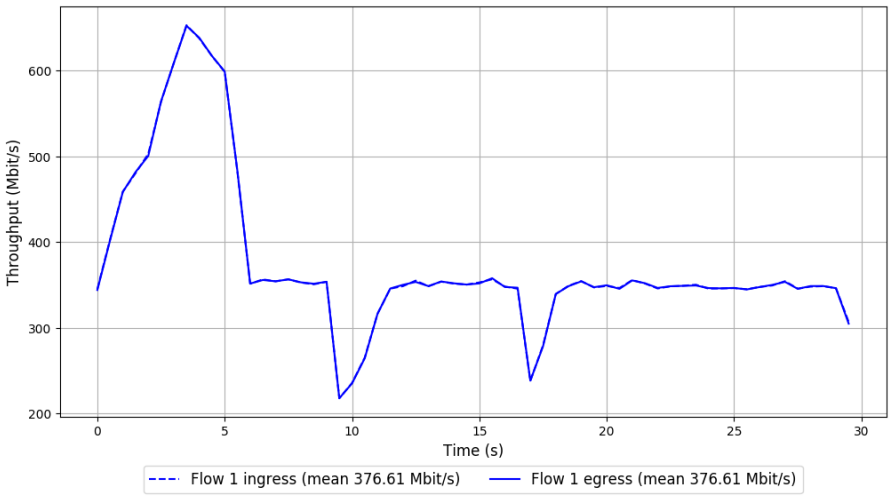


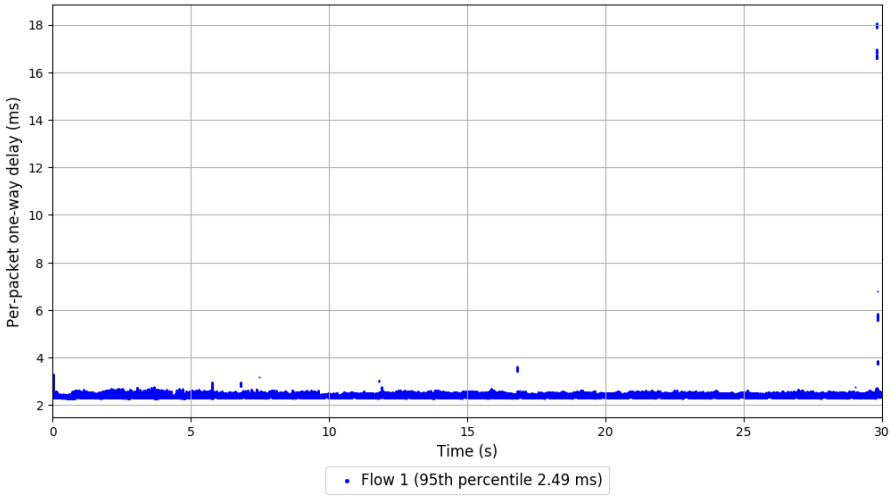
```
Run 4: Statistics of TCP Vegas

Start at: 2017-09-21 10:17:11
End at: 2017-09-21 10:17:41
Local clock offset: -0.201 ms
Remote clock offset: 0.051 ms

# Below is generated by plot.py at 2017-09-21 16:36:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 376.61 Mbit/s
95th percentile per-packet one-way delay: 2.487 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 376.61 Mbit/s
95th percentile per-packet one-way delay: 2.487 ms
Loss rate: 0.01%
```

Run 4: Report of TCP Vegas — Data Link



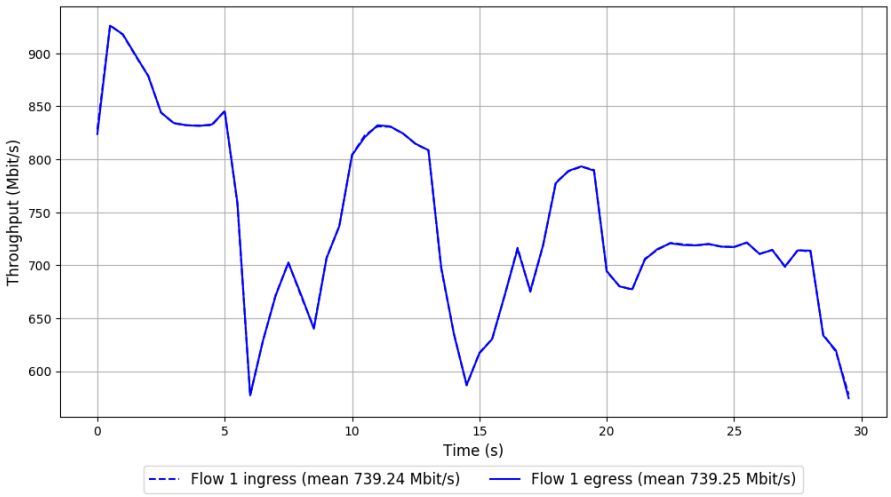


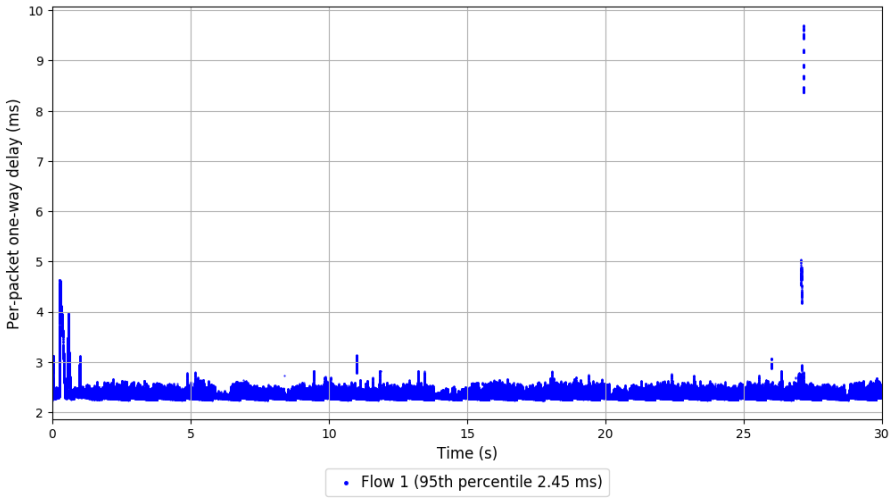
```
Run 5: Statistics of TCP Vegas

Start at: 2017-09-21 10:35:15
End at: 2017-09-21 10:35:45
Local clock offset: -0.131 ms
Remote clock offset: 0.286 ms

# Below is generated by plot.py at 2017-09-21 16:40:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 739.25 Mbit/s
95th percentile per-packet one-way delay: 2.454 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 739.25 Mbit/s
95th percentile per-packet one-way delay: 2.454 ms
Loss rate: 0.01%
```

Run 5: Report of TCP Vegas — Data Link



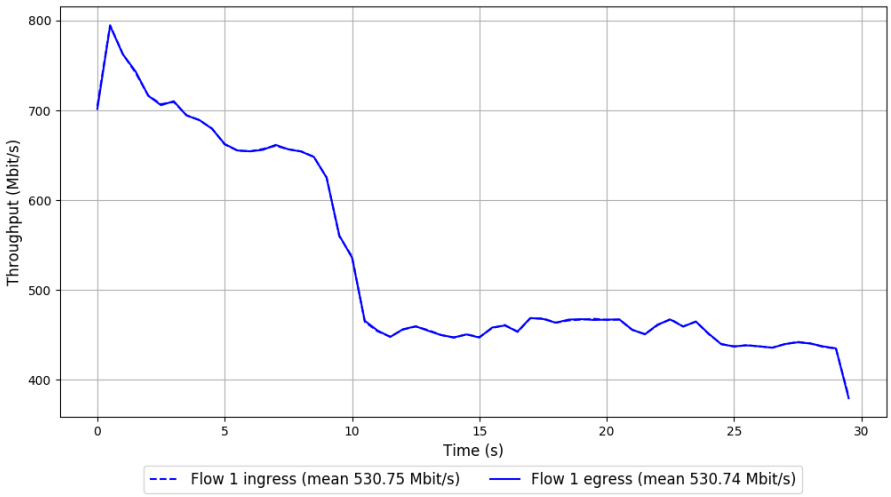


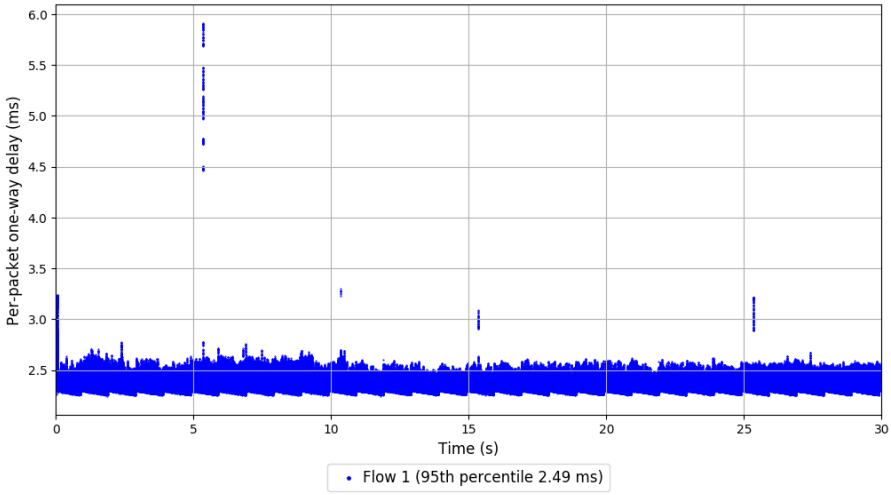
```
Run 6: Statistics of TCP Vegas

Start at: 2017-09-21 10:53:39
End at: 2017-09-21 10:54:09
Local clock offset: -0.032 ms
Remote clock offset: 0.408 ms

# Below is generated by plot.py at 2017-09-21 16:40:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 530.74 Mbit/s
95th percentile per-packet one-way delay: 2.494 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 530.74 Mbit/s
95th percentile per-packet one-way delay: 2.494 ms
Loss rate: 0.01%
```

Run 6: Report of TCP Vegas — Data Link



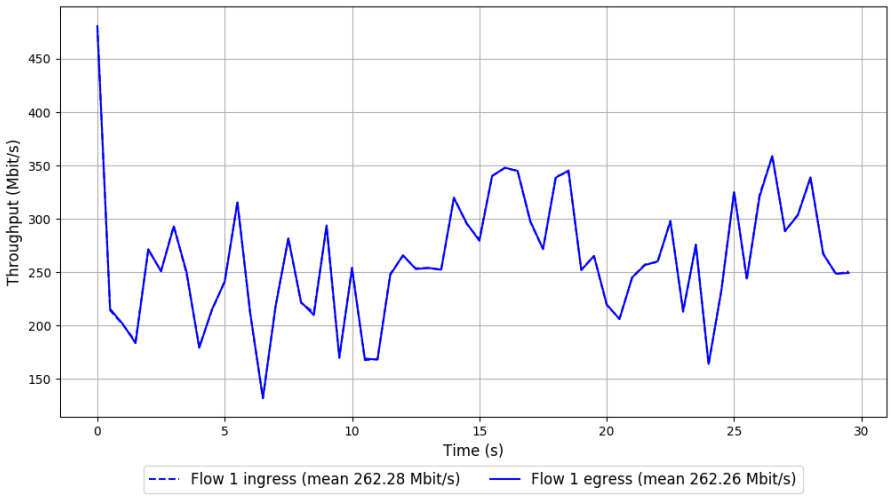


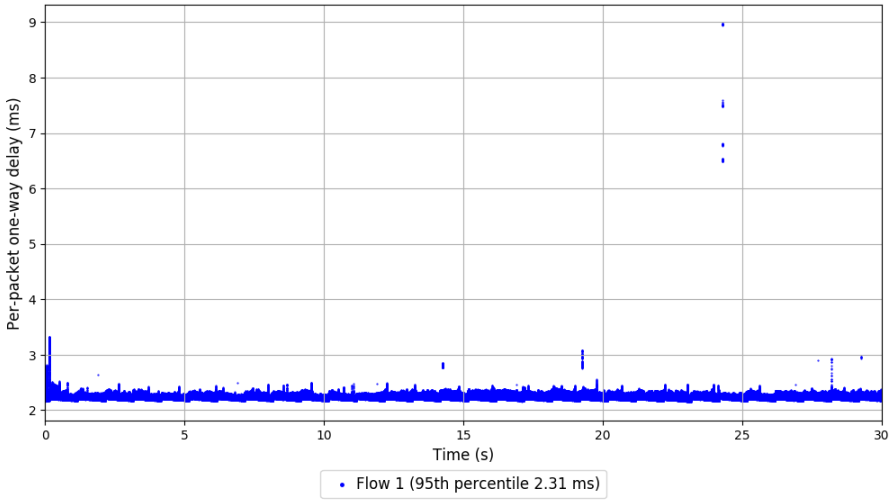
```
Run 7: Statistics of TCP Vegas

Start at: 2017-09-21 11:12:05
End at: 2017-09-21 11:12:35
Local clock offset: -0.005 ms
Remote clock offset: 0.421 ms

# Below is generated by plot.py at 2017-09-21 16:40:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 262.26 Mbit/s
95th percentile per-packet one-way delay: 2.312 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 262.26 Mbit/s
95th percentile per-packet one-way delay: 2.312 ms
Loss rate: 0.02%
```

Run 7: Report of TCP Vegas — Data Link



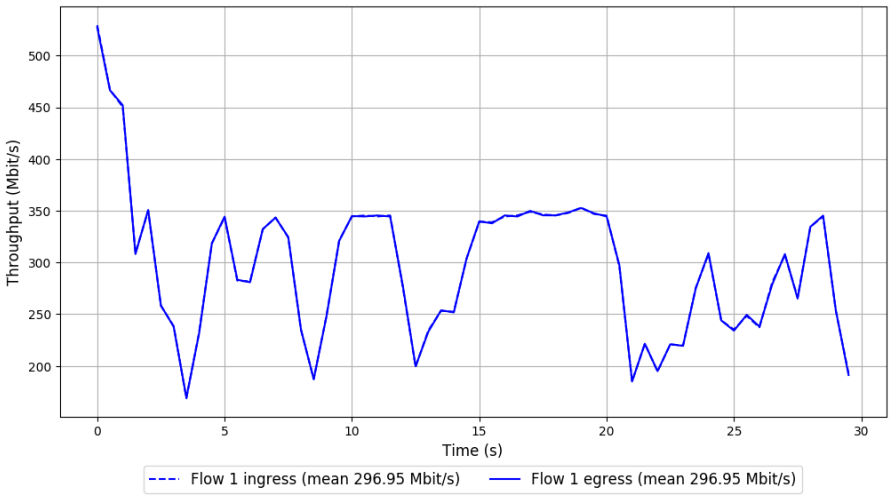


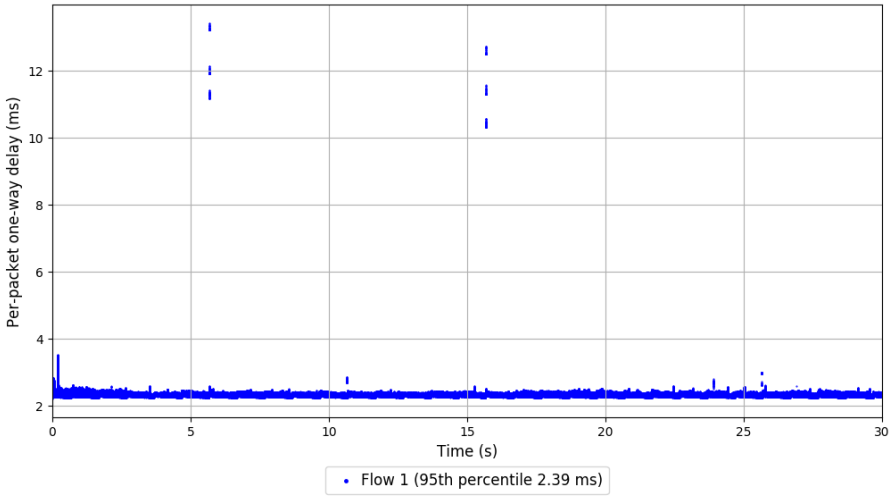
```
Run 8: Statistics of TCP Vegas

Start at: 2017-09-21 11:30:16
End at: 2017-09-21 11:30:46
Local clock offset: 0.103 ms
Remote clock offset: 0.39 ms

# Below is generated by plot.py at 2017-09-21 16:40:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 296.95 Mbit/s
95th percentile per-packet one-way delay: 2.389 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 296.95 Mbit/s
95th percentile per-packet one-way delay: 2.389 ms
Loss rate: 0.02%
```

Run 8: Report of TCP Vegas — Data Link



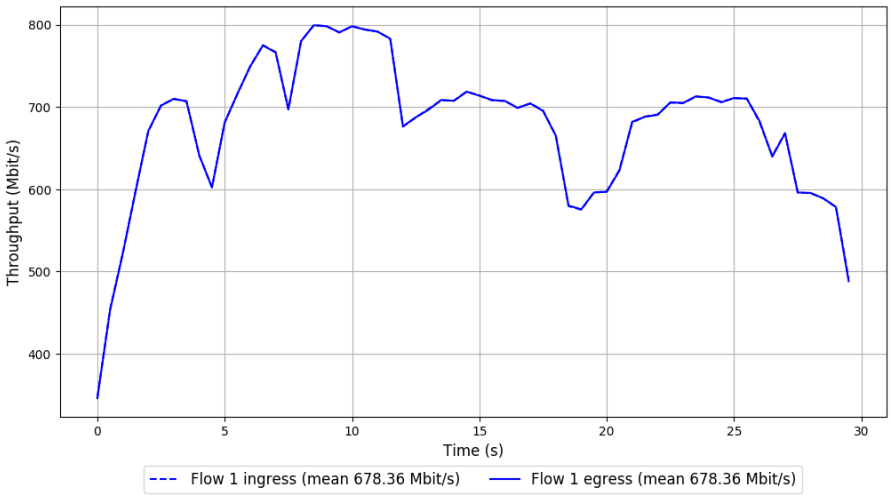


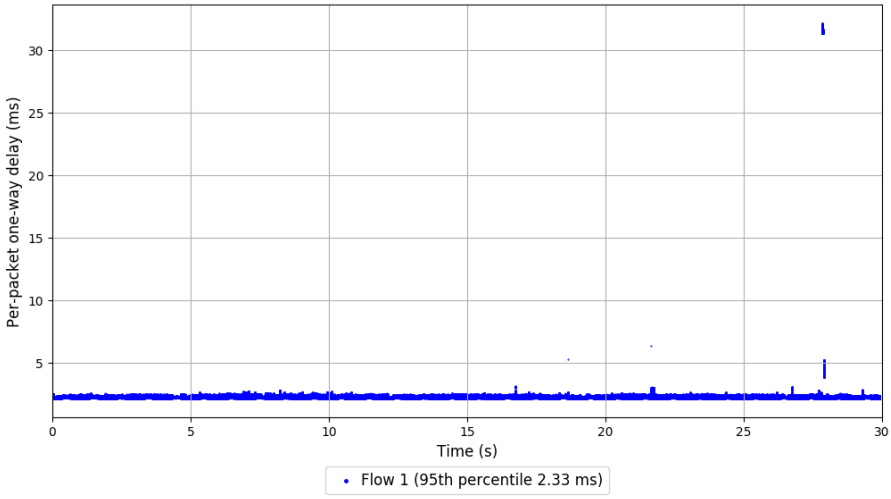
```
Run 9: Statistics of TCP Vegas

Start at: 2017-09-21 11:48:25
End at: 2017-09-21 11:48:55
Local clock offset: 0.1 ms
Remote clock offset: 0.397 ms

# Below is generated by plot.py at 2017-09-21 16:43:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 678.36 Mbit/s
95th percentile per-packet one-way delay: 2.332 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 678.36 Mbit/s
95th percentile per-packet one-way delay: 2.332 ms
Loss rate: 0.01%
```

Run 9: Report of TCP Vegas — Data Link



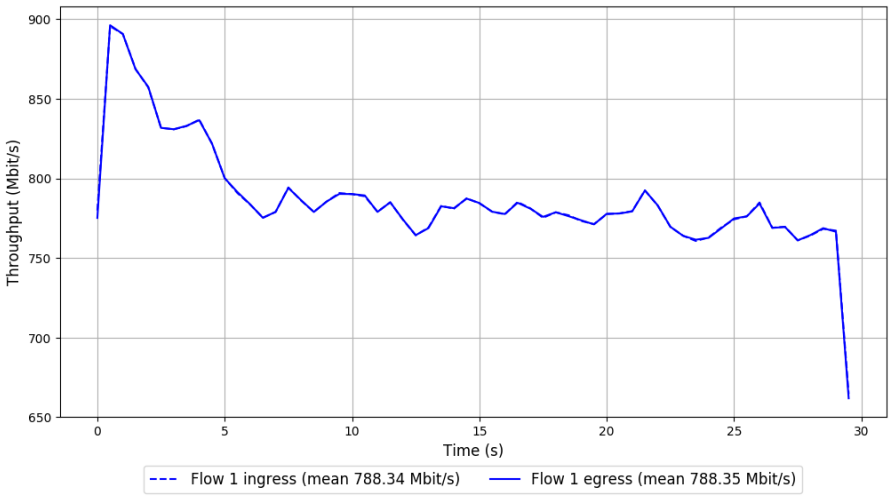


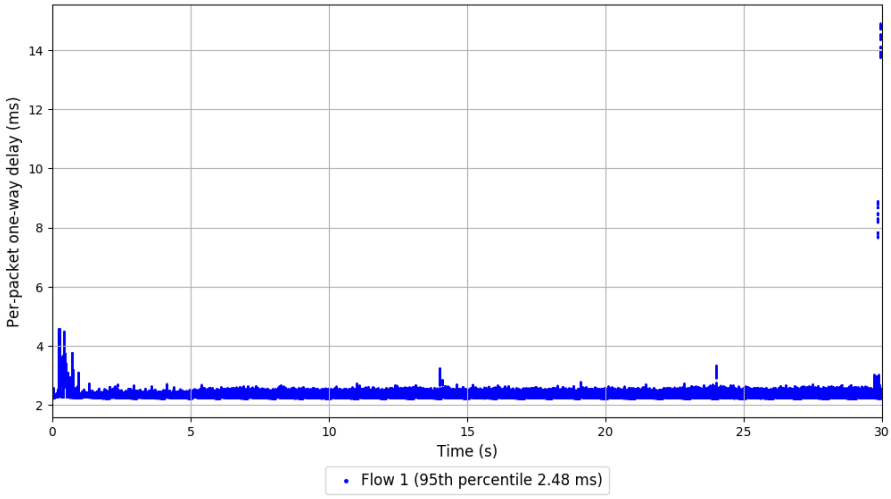
```
Run 10: Statistics of TCP Vegas

Start at: 2017-09-21 12:06:47
End at: 2017-09-21 12:07:17
Local clock offset: 0.321 ms
Remote clock offset: 0.392 ms

# Below is generated by plot.py at 2017-09-21 16:45:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 788.35 Mbit/s
95th percentile per-packet one-way delay: 2.475 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 788.35 Mbit/s
95th percentile per-packet one-way delay: 2.475 ms
Loss rate: 0.01%
```

Run 10: Report of TCP Vegas — Data Link



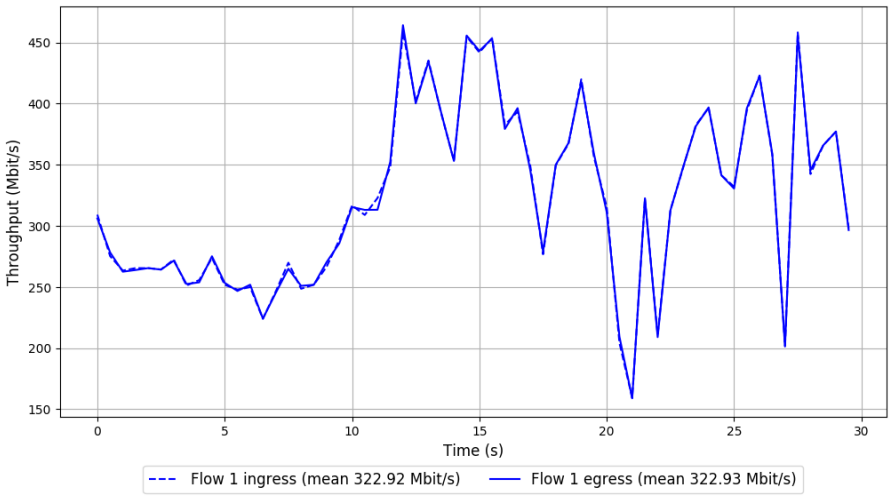


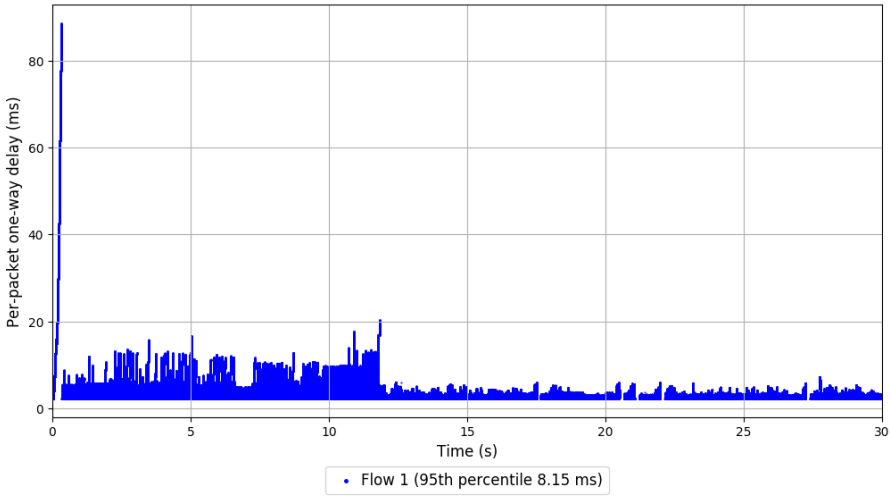
```
Run 1: Statistics of Verus

Start at: 2017-09-21 09:32:34
End at: 2017-09-21 09:33:04
Local clock offset: -0.4 ms
Remote clock offset: -0.431 ms

# Below is generated by plot.py at 2017-09-21 16:45:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 322.93 Mbit/s
95th percentile per-packet one-way delay: 8.148 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 322.93 Mbit/s
95th percentile per-packet one-way delay: 8.148 ms
Loss rate: 0.01%
```

Run 1: Report of Verus — Data Link



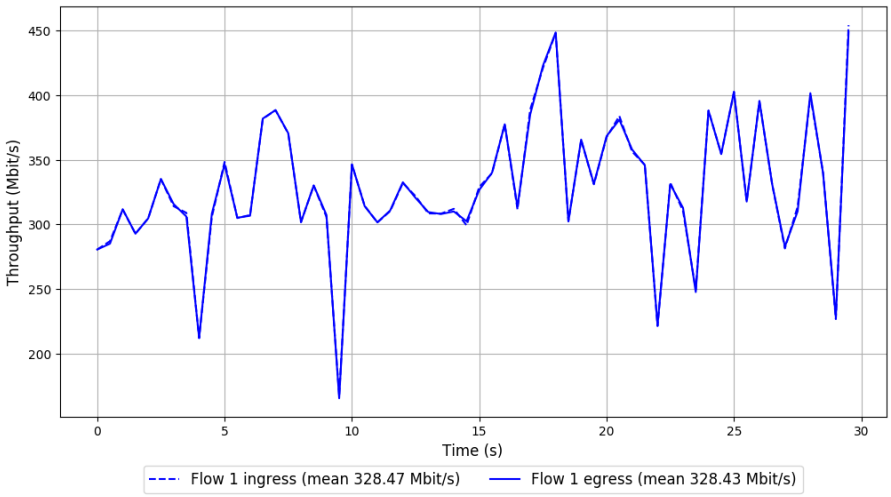


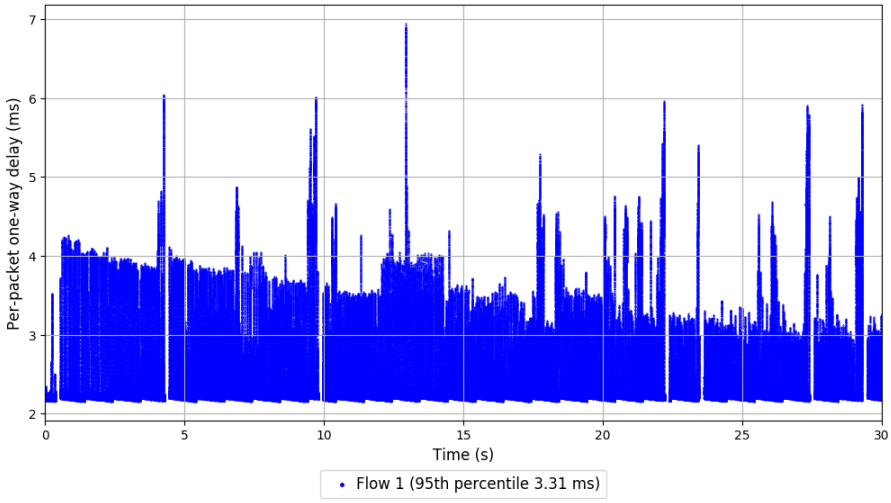
```
Run 2: Statistics of Verus

Start at: 2017-09-21 09:50:38
End at: 2017-09-21 09:51:08
Local clock offset: -0.351 ms
Remote clock offset: -0.133 ms

# Below is generated by plot.py at 2017-09-21 16:45:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 328.43 Mbit/s
95th percentile per-packet one-way delay: 3.311 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 328.43 Mbit/s
95th percentile per-packet one-way delay: 3.311 ms
Loss rate: 0.03%
```

Run 2: Report of Verus — Data Link



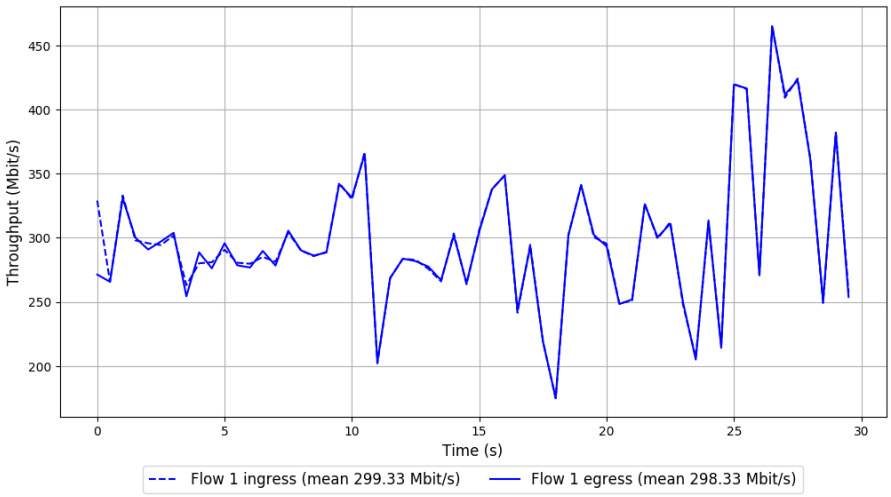


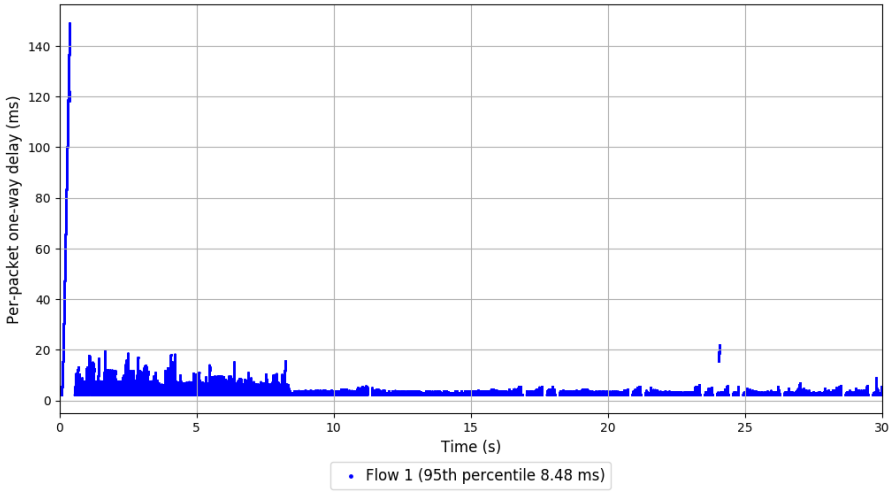
```
Run 3: Statistics of Verus

Start at: 2017-09-21 10:08:55
End at: 2017-09-21 10:09:25
Local clock offset: -0.172 ms
Remote clock offset: 0.103 ms

# Below is generated by plot.py at 2017-09-21 16:45:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 298.33 Mbit/s
95th percentile per-packet one-way delay: 8.485 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 298.33 Mbit/s
95th percentile per-packet one-way delay: 8.485 ms
Loss rate: 0.35%
```

Run 3: Report of Verus — Data Link



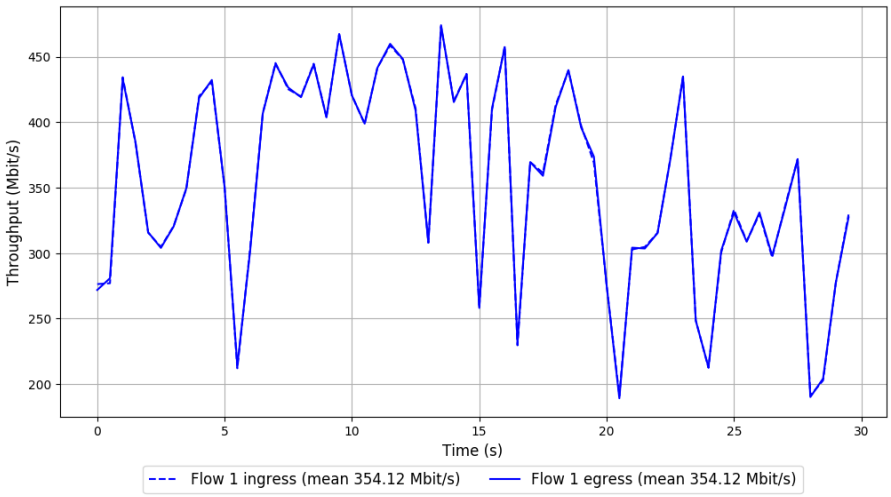


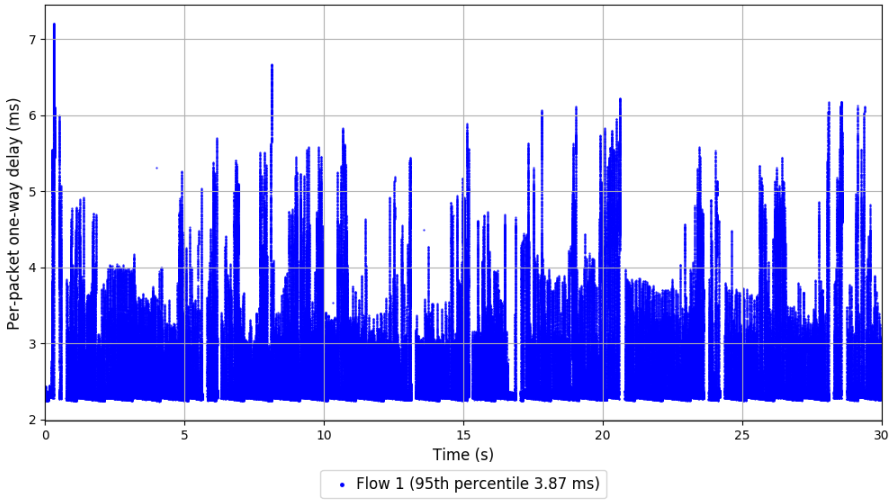
```
Run 4: Statistics of Verus

Start at: 2017-09-21 10:26:54
End at: 2017-09-21 10:27:24
Local clock offset: -0.148 ms
Remote clock offset: 0.212 ms

# Below is generated by plot.py at 2017-09-21 16:45:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 354.12 Mbit/s
95th percentile per-packet one-way delay: 3.872 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 354.12 Mbit/s
95th percentile per-packet one-way delay: 3.872 ms
Loss rate: 0.02%
```

Run 4: Report of Verus — Data Link



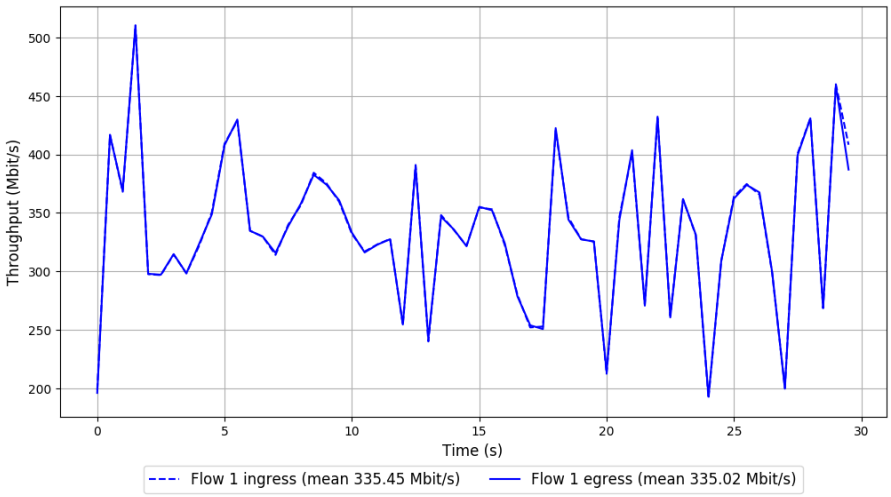


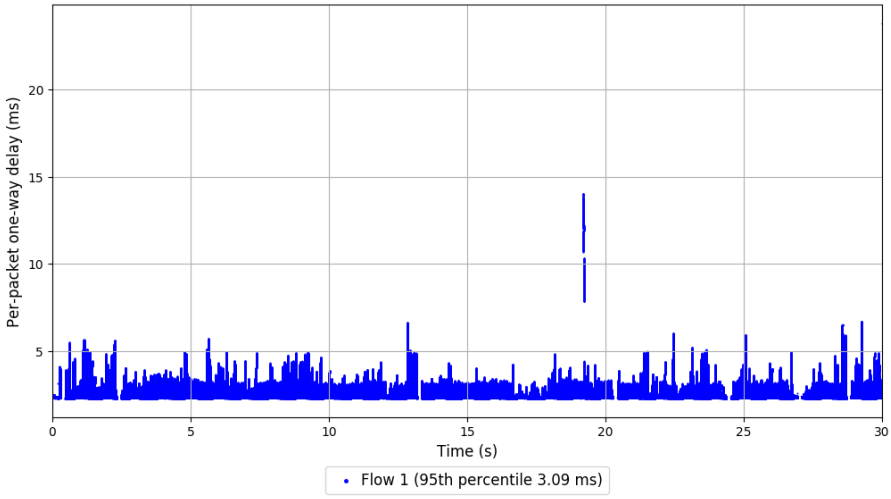
```
Run 5: Statistics of Verus

Start at: 2017-09-21 10:45:20
End at: 2017-09-21 10:45:50
Local clock offset: -0.058 ms
Remote clock offset: 0.365 ms

# Below is generated by plot.py at 2017-09-21 16:45:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 335.02 Mbit/s
95th percentile per-packet one-way delay: 3.090 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 335.02 Mbit/s
95th percentile per-packet one-way delay: 3.090 ms
Loss rate: 0.12%
```

Run 5: Report of Verus — Data Link



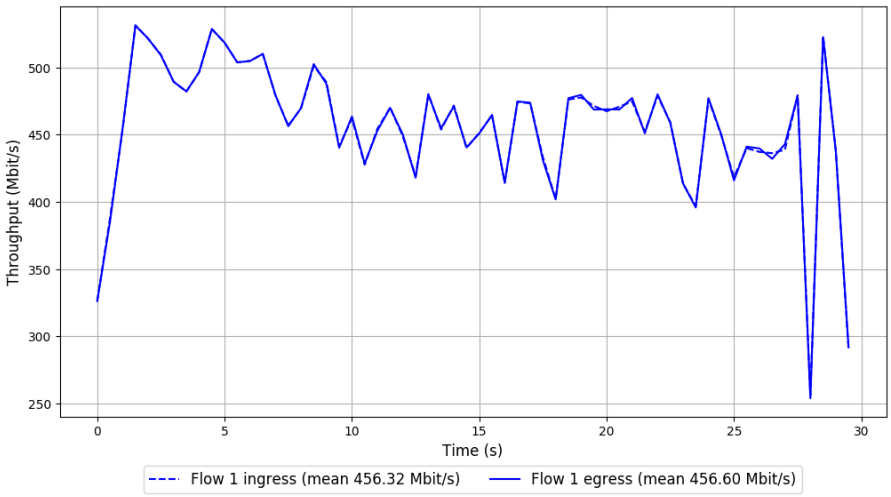


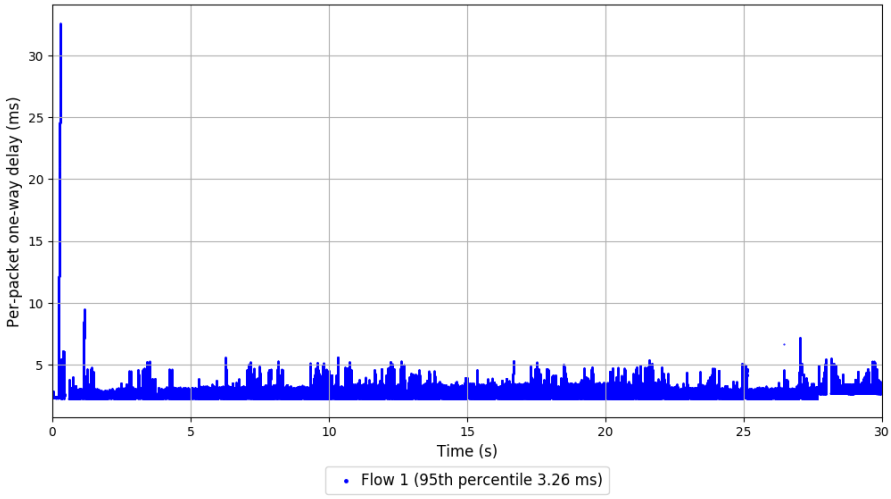
```
Run 6: Statistics of Verus

Start at: 2017-09-21 11:03:41
End at: 2017-09-21 11:04:11
Local clock offset: 0.027 ms
Remote clock offset: 0.413 ms

# Below is generated by plot.py at 2017-09-21 16:46:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 456.60 Mbit/s
95th percentile per-packet one-way delay: 3.264 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 456.60 Mbit/s
95th percentile per-packet one-way delay: 3.264 ms
Loss rate: 0.00%
```

Run 6: Report of Verus — Data Link



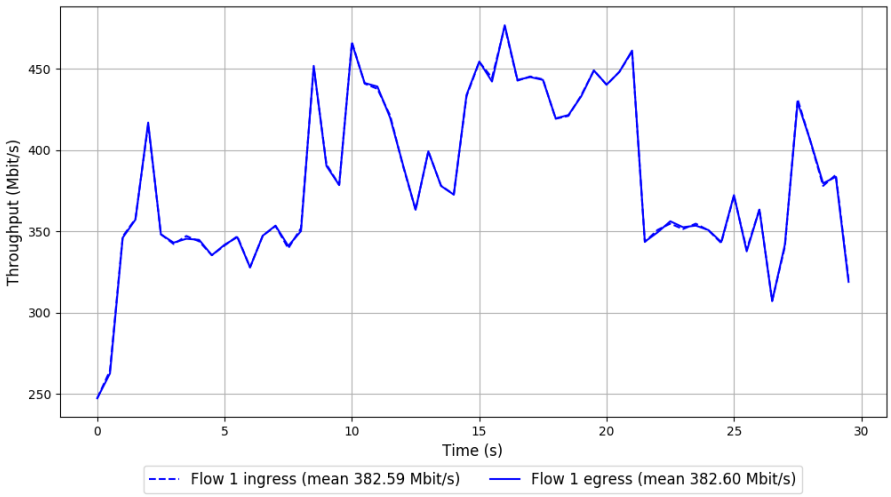


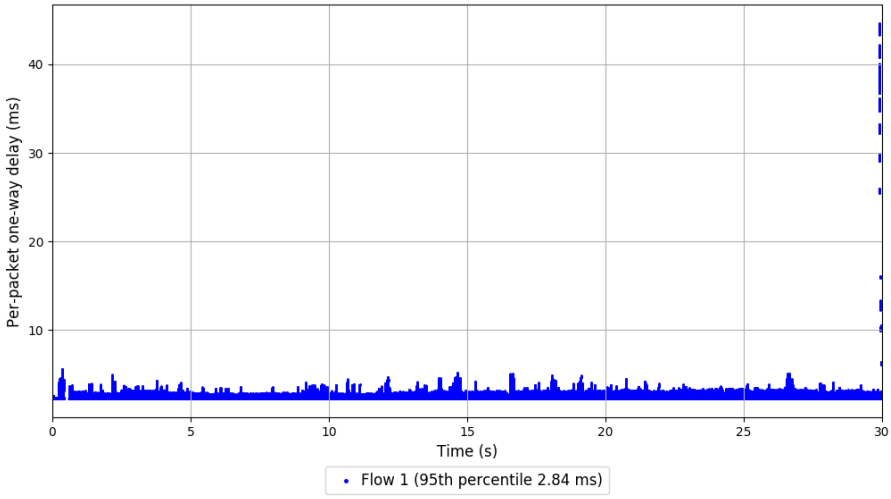
```
Run 7: Statistics of Verus

Start at: 2017-09-21 11:21:56
End at: 2017-09-21 11:22:26
Local clock offset: 0.05 ms
Remote clock offset: 0.381 ms

# Below is generated by plot.py at 2017-09-21 16:46:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 382.60 Mbit/s
95th percentile per-packet one-way delay: 2.836 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 382.60 Mbit/s
95th percentile per-packet one-way delay: 2.836 ms
Loss rate: 0.01%
```

Run 7: Report of Verus — Data Link



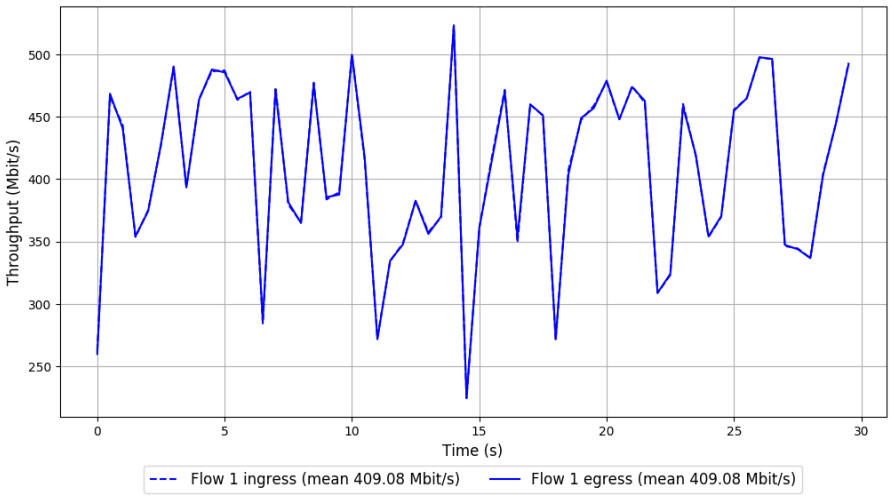


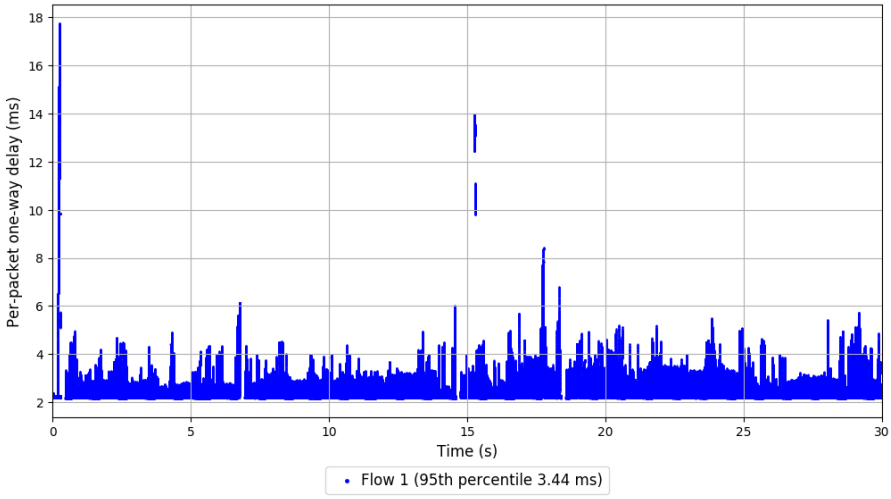
```
Run 8: Statistics of Verus

Start at: 2017-09-21 11:40:09
End at: 2017-09-21 11:40:39
Local clock offset: 0.067 ms
Remote clock offset: 0.399 ms

# Below is generated by plot.py at 2017-09-21 16:46:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 409.08 Mbit/s
95th percentile per-packet one-way delay: 3.441 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 409.08 Mbit/s
95th percentile per-packet one-way delay: 3.441 ms
Loss rate: 0.01%
```

Run 8: Report of Verus — Data Link



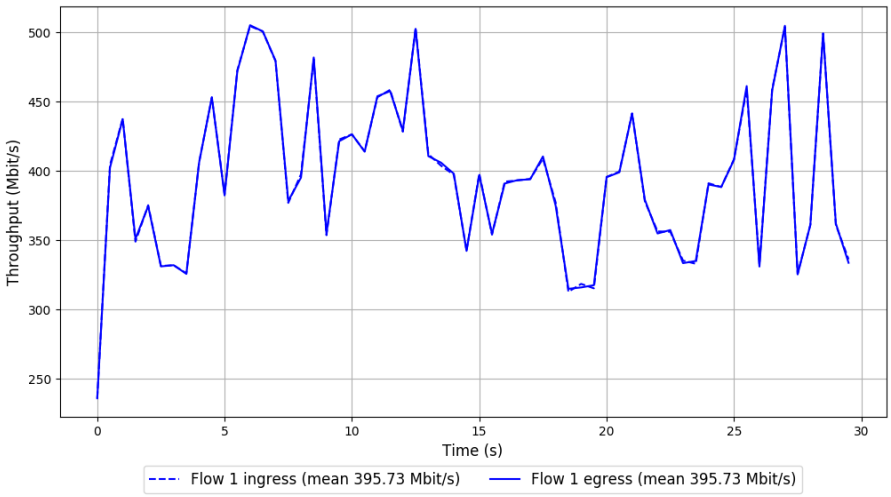


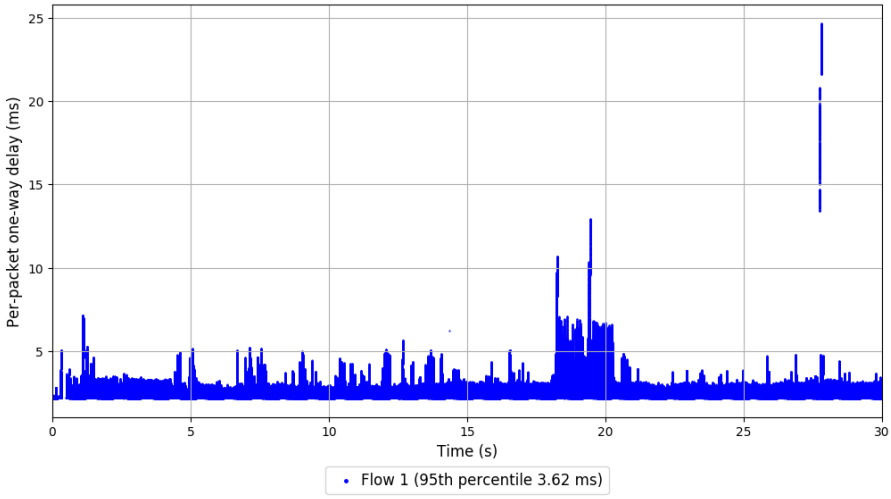
```
Run 9: Statistics of Verus

Start at: 2017-09-21 11:58:28
End at: 2017-09-21 11:58:58
Local clock offset: 0.213 ms
Remote clock offset: 0.423 ms

# Below is generated by plot.py at 2017-09-21 16:46:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 395.73 Mbit/s
95th percentile per-packet one-way delay: 3.615 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 395.73 Mbit/s
95th percentile per-packet one-way delay: 3.615 ms
Loss rate: 0.01%
```

Run 9: Report of Verus — Data Link



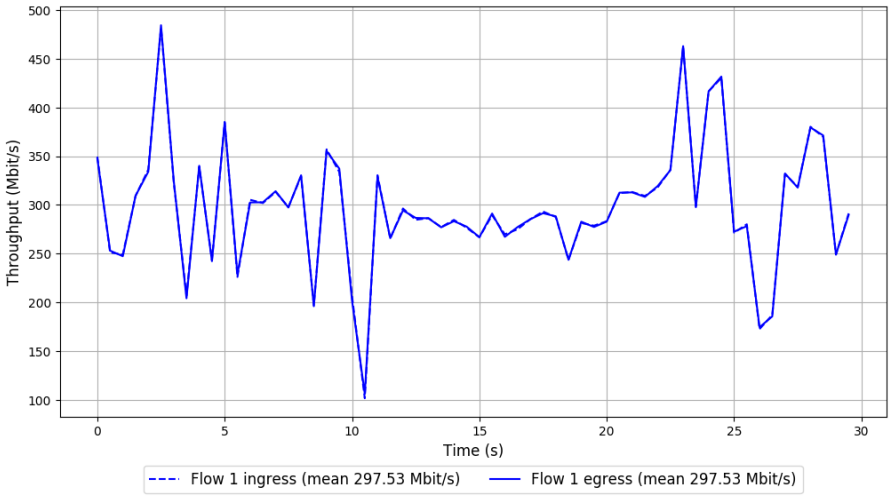


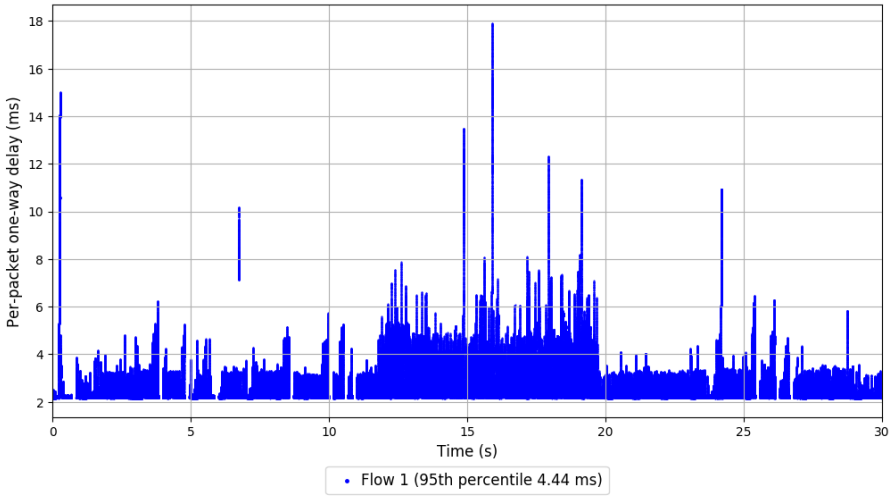
```
Run 10: Statistics of Verus

Start at: 2017-09-21 12:16:52
End at: 2017-09-21 12:17:22
Local clock offset: 0.271 ms
Remote clock offset: 0.361 ms

# Below is generated by plot.py at 2017-09-21 16:46:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 297.53 Mbit/s
95th percentile per-packet one-way delay: 4.436 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 297.53 Mbit/s
95th percentile per-packet one-way delay: 4.436 ms
Loss rate: 0.01%
```

Run 10: Report of Verus — Data Link



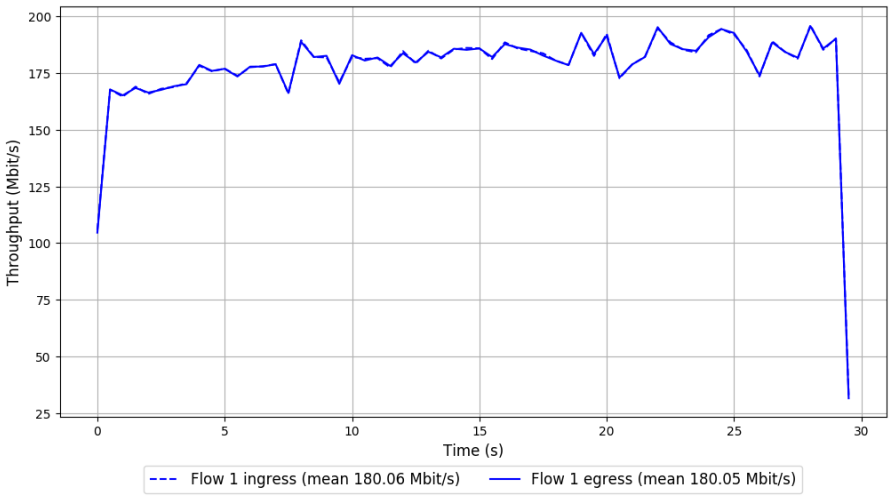


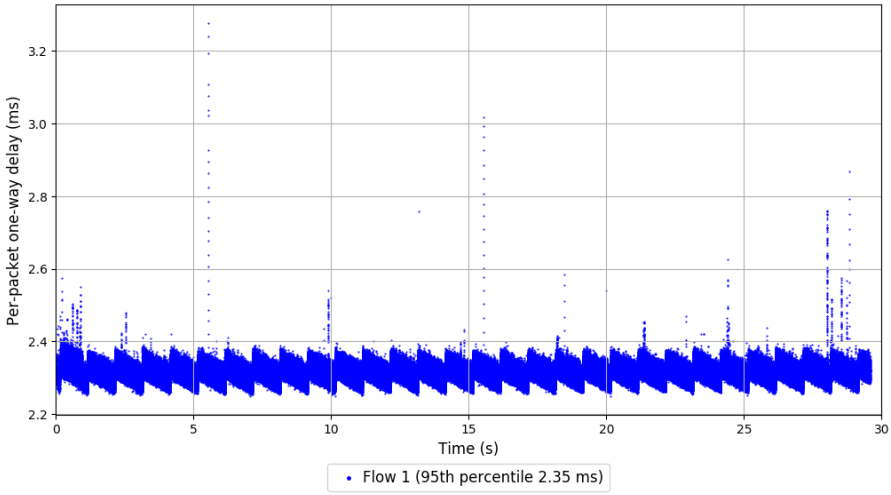
```
Run 1: Statistics of Indigo

Start at: 2017-09-21 09:25:02
End at: 2017-09-21 09:25:32
Local clock offset: -0.374 ms
Remote clock offset: -0.51 ms

# Below is generated by plot.py at 2017-09-21 16:46:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 180.05 Mbit/s
95th percentile per-packet one-way delay: 2.352 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 180.05 Mbit/s
95th percentile per-packet one-way delay: 2.352 ms
Loss rate: 0.02%
```

Run 1: Report of Indigo — Data Link



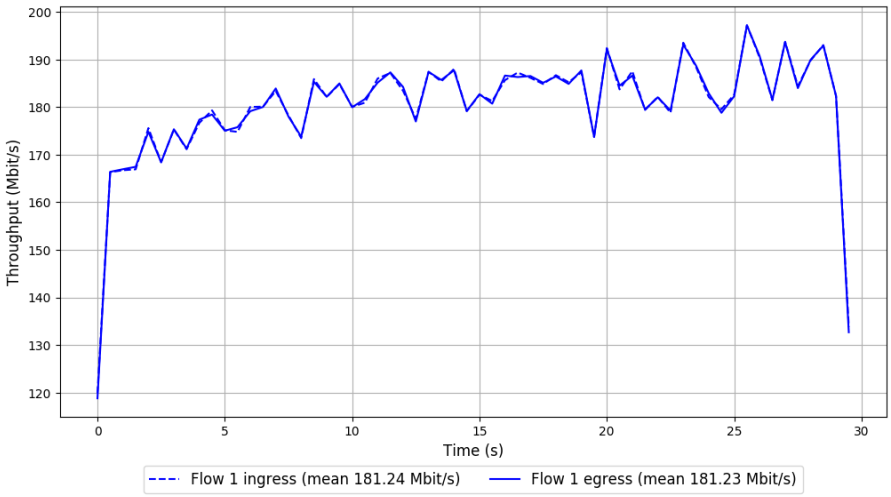


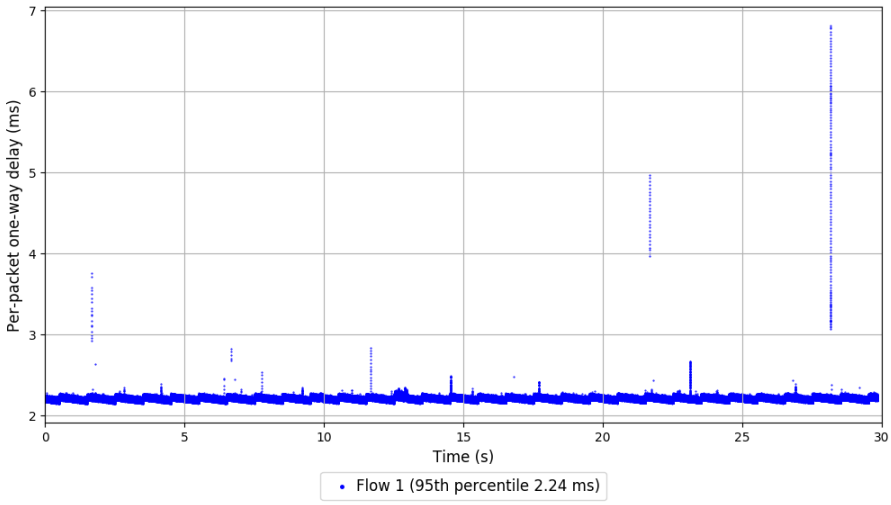
```
Run 2: Statistics of Indigo

Start at: 2017-09-21 09:43:13
End at: 2017-09-21 09:43:43
Local clock offset: -0.361 ms
Remote clock offset: -0.235 ms

# Below is generated by plot.py at 2017-09-21 16:46:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 181.23 Mbit/s
95th percentile per-packet one-way delay: 2.243 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 181.23 Mbit/s
95th percentile per-packet one-way delay: 2.243 ms
Loss rate: 0.02%
```

Run 2: Report of Indigo — Data Link



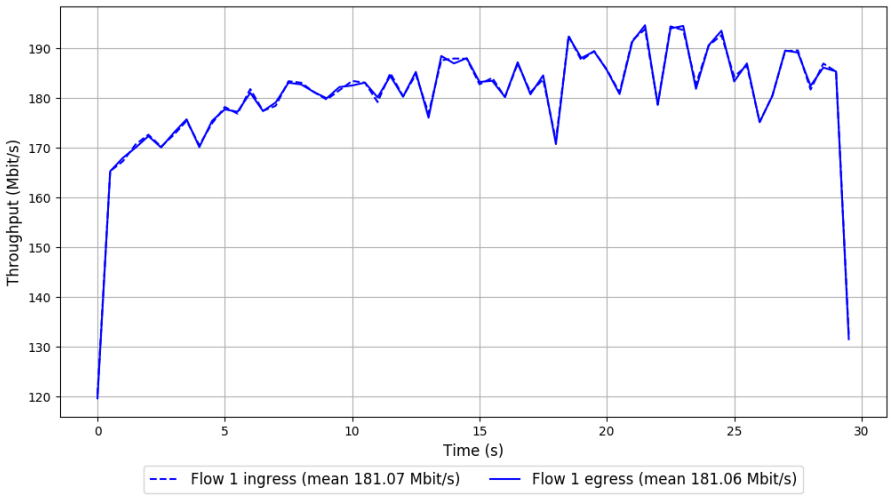


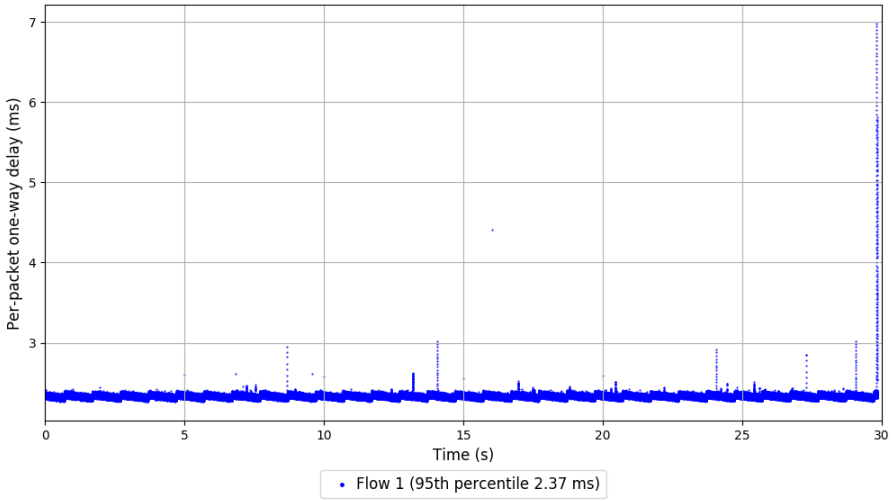
```
Run 3: Statistics of Indigo

Start at: 2017-09-21 10:01:23
End at: 2017-09-21 10:01:53
Local clock offset: -0.241 ms
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2017-09-21 16:47:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 181.06 Mbit/s
95th percentile per-packet one-way delay: 2.368 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 181.06 Mbit/s
95th percentile per-packet one-way delay: 2.368 ms
Loss rate: 0.02%
```

Run 3: Report of Indigo — Data Link

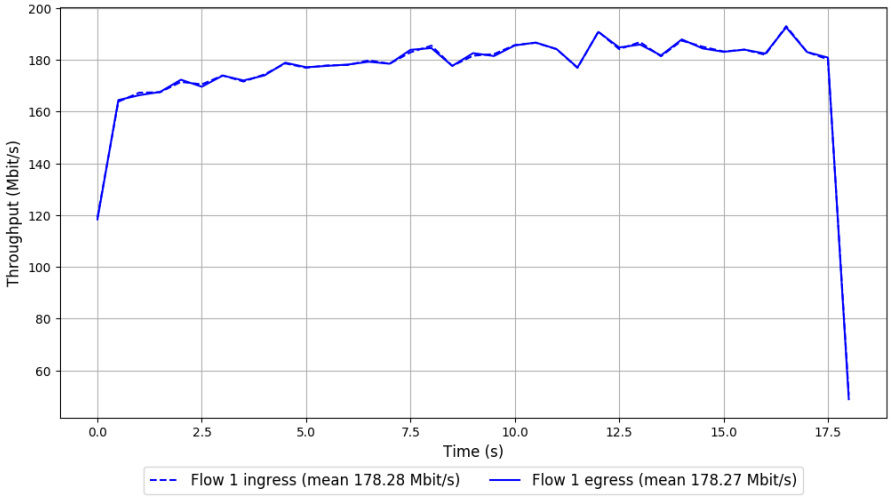


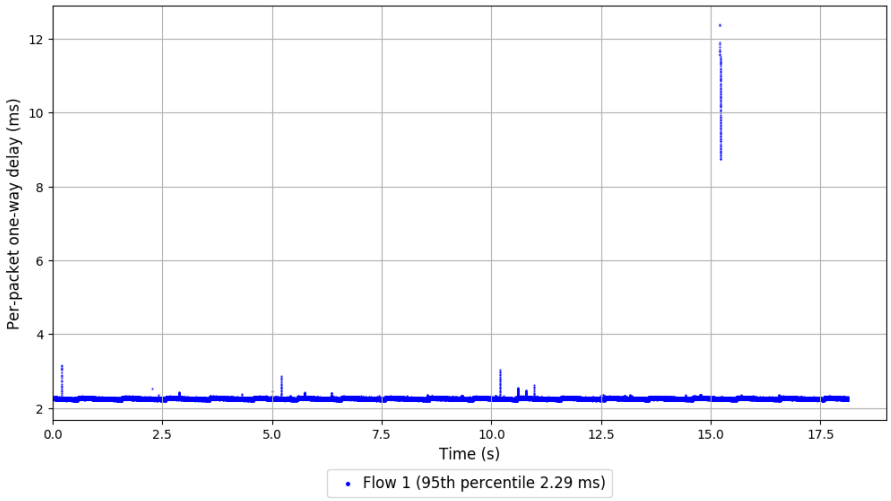


```
Run 4: Statistics of Indigo

Start at: 2017-09-21 10:19:33
End at: 2017-09-21 10:20:03
Local clock offset: -0.208 ms
Remote clock offset: 0.154 ms
```

Run 4: Report of Indigo — Data Link



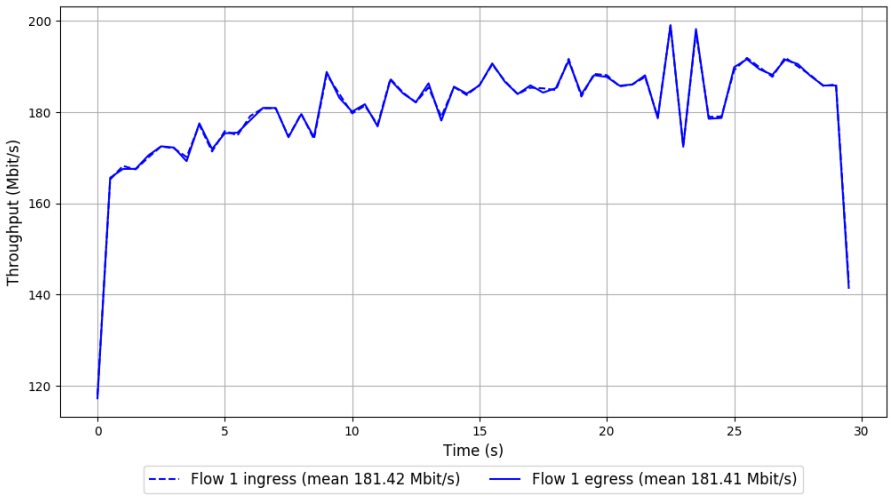


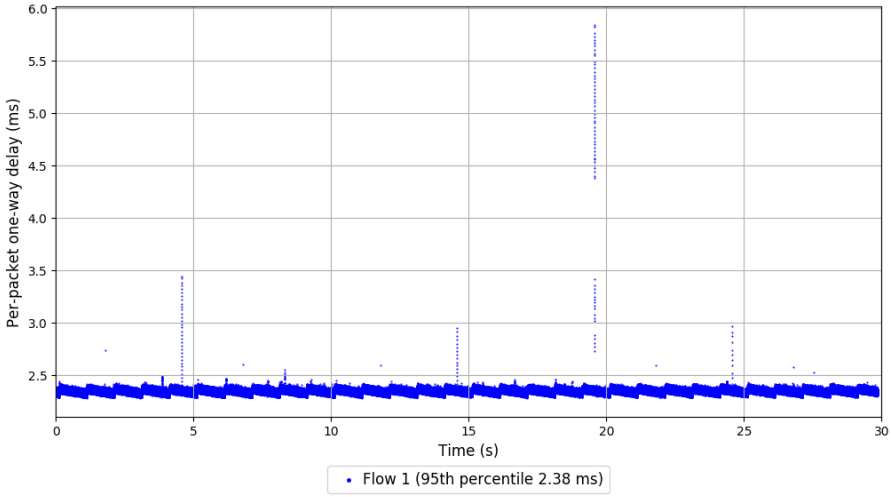
```
Run 5: Statistics of Indigo

Start at: 2017-09-21 10:37:51
End at: 2017-09-21 10:38:21
Local clock offset: -0.099 ms
Remote clock offset: 0.286 ms

# Below is generated by plot.py at 2017-09-21 16:48:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 181.41 Mbit/s
95th percentile per-packet one-way delay: 2.382 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 181.41 Mbit/s
95th percentile per-packet one-way delay: 2.382 ms
Loss rate: 0.02%
```

Run 5: Report of Indigo — Data Link



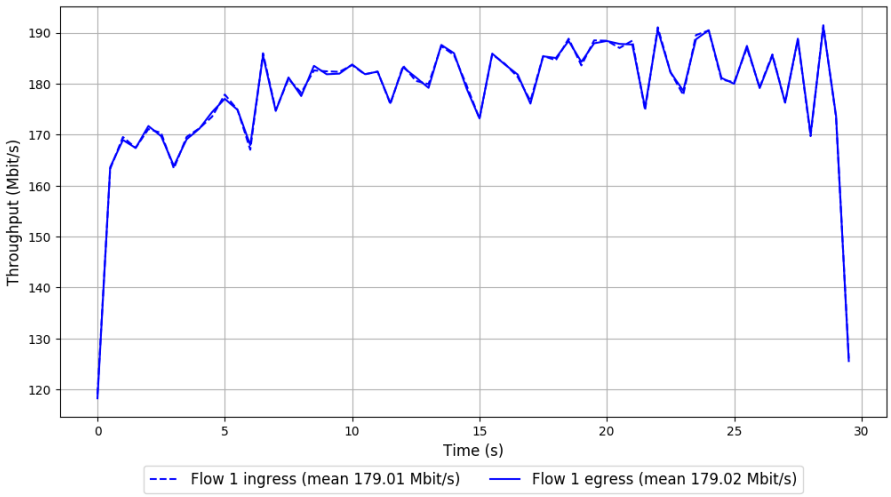


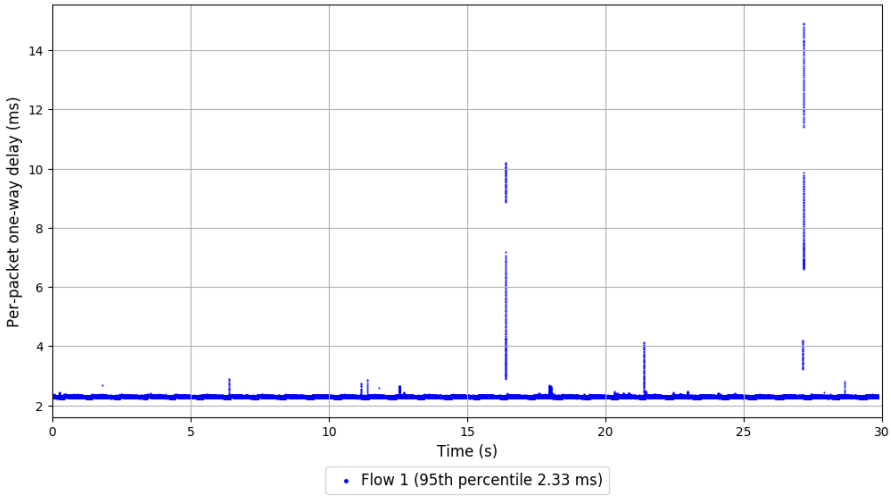
```
Run 6: Statistics of Indigo

Start at: 2017-09-21 10:56:07
End at: 2017-09-21 10:56:37
Local clock offset: -0.067 ms
Remote clock offset: 0.36 ms

# Below is generated by plot.py at 2017-09-21 16:48:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 179.02 Mbit/s
95th percentile per-packet one-way delay: 2.332 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 179.02 Mbit/s
95th percentile per-packet one-way delay: 2.332 ms
Loss rate: 0.01%
```

Run 6: Report of Indigo — Data Link



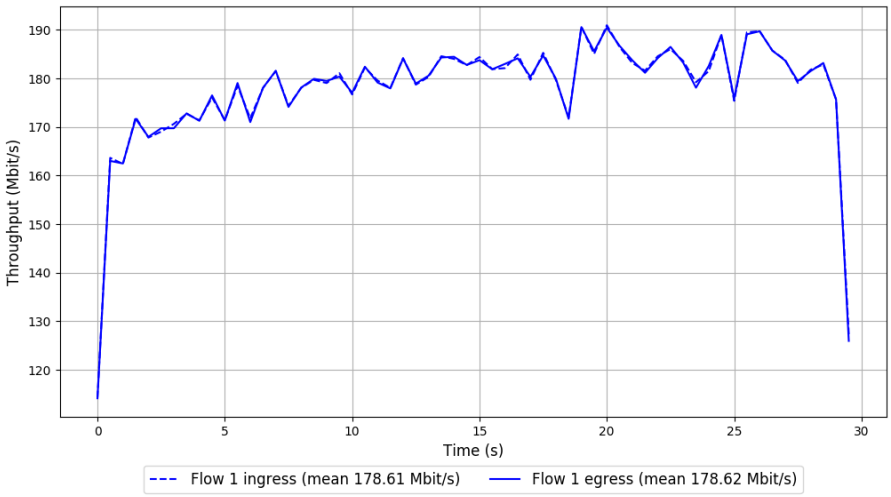


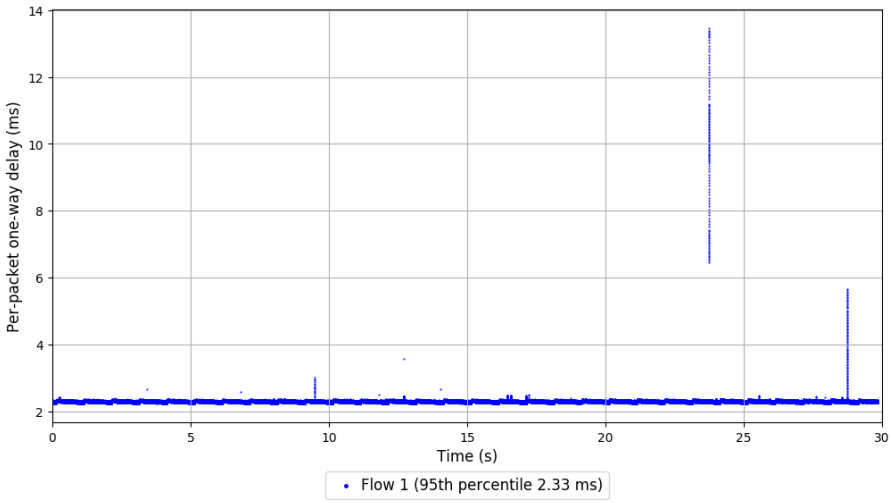
```
Run 7: Statistics of Indigo

Start at: 2017-09-21 11:14:23
End at: 2017-09-21 11:14:53
Local clock offset: 0.059 ms
Remote clock offset: 0.393 ms

# Below is generated by plot.py at 2017-09-21 16:48:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 178.62 Mbit/s
95th percentile per-packet one-way delay: 2.328 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 178.62 Mbit/s
95th percentile per-packet one-way delay: 2.328 ms
Loss rate: 0.02%
```

Run 7: Report of Indigo — Data Link



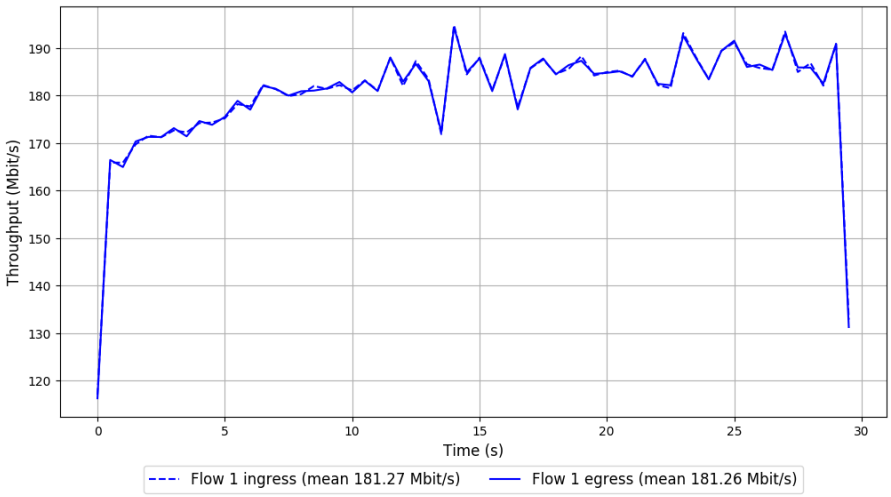


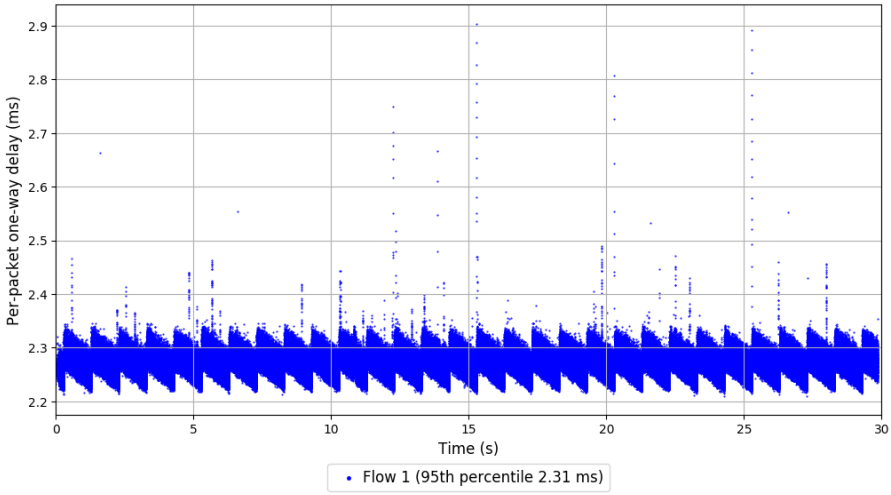
```
Run 8: Statistics of Indigo

Start at: 2017-09-21 11:32:36
End at: 2017-09-21 11:33:06
Local clock offset: 0.134 ms
Remote clock offset: 0.405 ms

# Below is generated by plot.py at 2017-09-21 16:48:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 181.26 Mbit/s
95th percentile per-packet one-way delay: 2.310 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 181.26 Mbit/s
95th percentile per-packet one-way delay: 2.310 ms
Loss rate: 0.02%
```

Run 8: Report of Indigo — Data Link



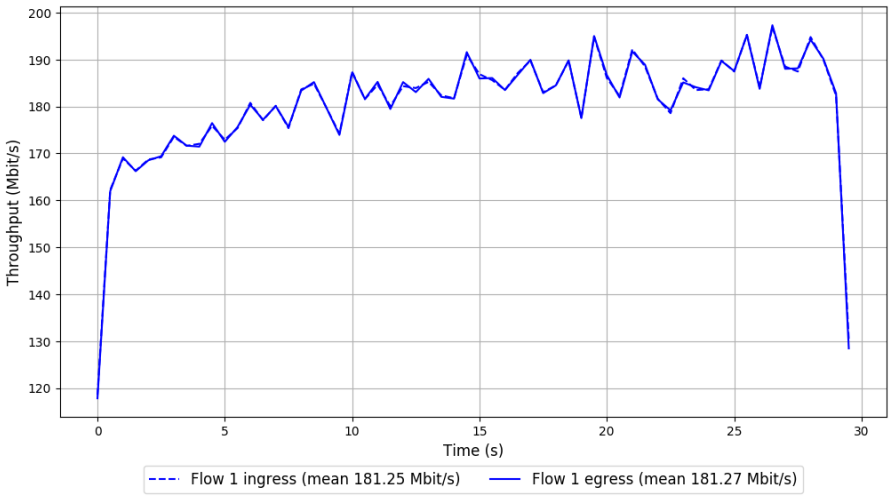


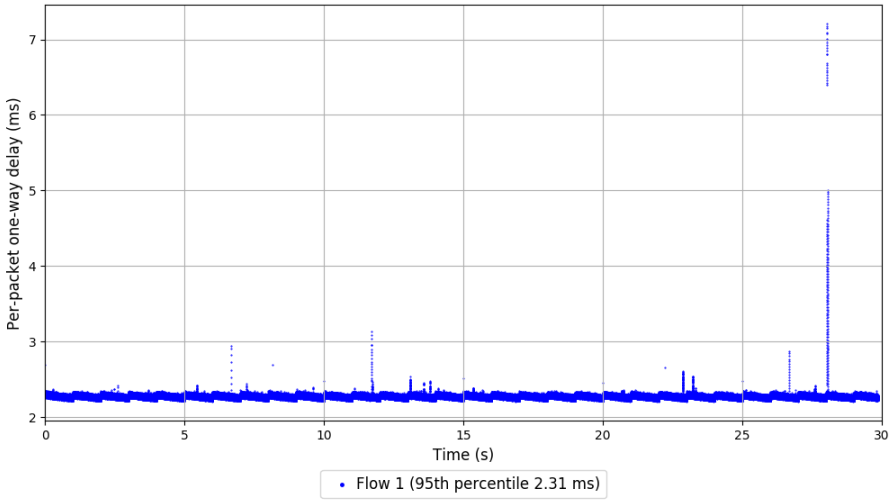
```
Run 9: Statistics of Indigo

Start at: 2017-09-21 11:50:59
End at: 2017-09-21 11:51:29
Local clock offset: 0.249 ms
Remote clock offset: 0.438 ms

# Below is generated by plot.py at 2017-09-21 16:49:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 181.27 Mbit/s
95th percentile per-packet one-way delay: 2.307 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 181.27 Mbit/s
95th percentile per-packet one-way delay: 2.307 ms
Loss rate: 0.02%
```

Run 9: Report of Indigo — Data Link



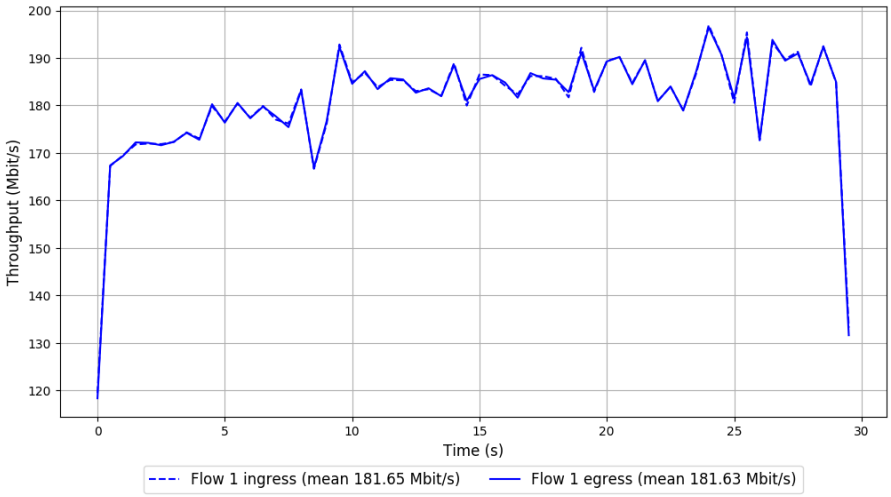


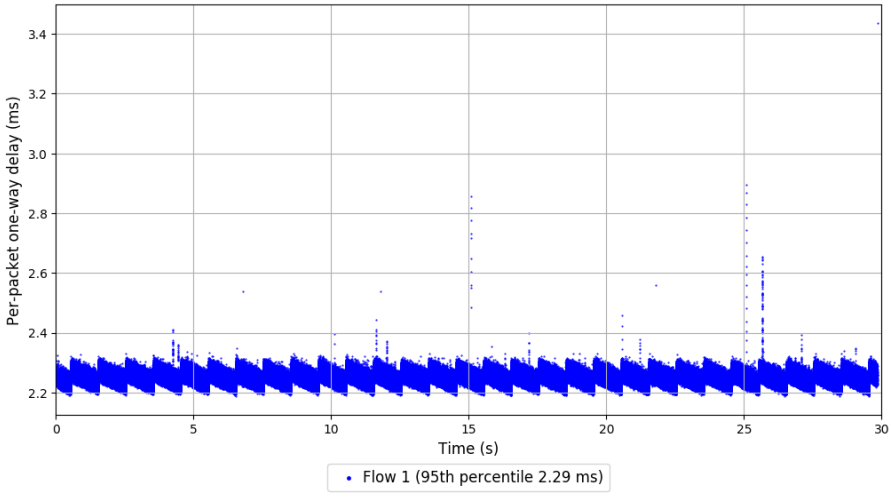
```
Run 10: Statistics of Indigo

Start at: 2017-09-21 12:09:26
End at: 2017-09-21 12:09:56
Local clock offset: 0.301 ms
Remote clock offset: 0.376 ms

# Below is generated by plot.py at 2017-09-21 16:49:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 181.63 Mbit/s
95th percentile per-packet one-way delay: 2.286 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 181.63 Mbit/s
95th percentile per-packet one-way delay: 2.286 ms
Loss rate: 0.02%
```

Run 10: Report of Indigo — Data Link



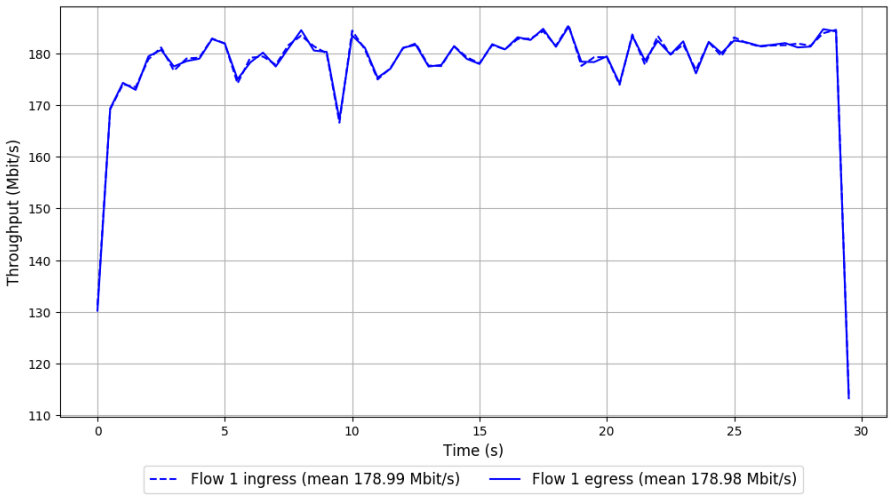


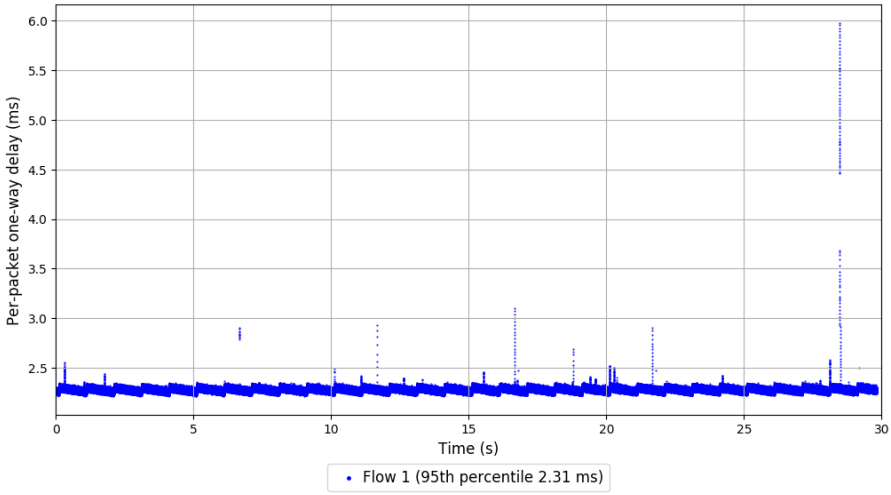
```
Run 1: Statistics of Indigo-calib

Start at: 2017-09-21 09:31:21
End at: 2017-09-21 09:31:51
Local clock offset: -0.34 ms
Remote clock offset: -0.381 ms

# Below is generated by plot.py at 2017-09-21 16:49:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 178.98 Mbit/s
95th percentile per-packet one-way delay: 2.315 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 178.98 Mbit/s
95th percentile per-packet one-way delay: 2.315 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-calib — Data Link



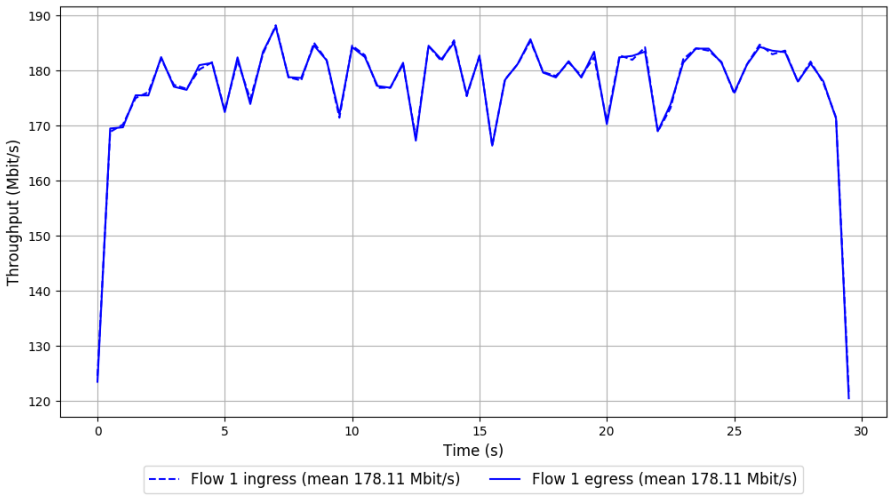


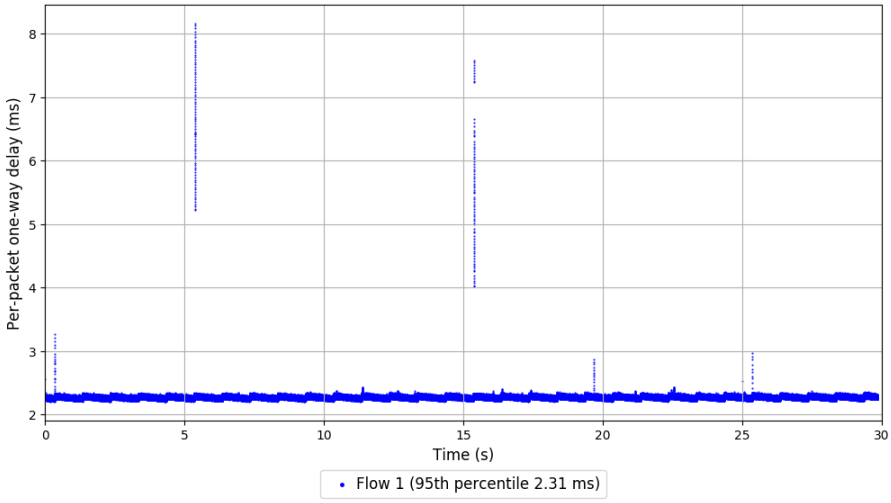
```
Run 2: Statistics of Indigo-calib

Start at: 2017-09-21 09:49:25
End at: 2017-09-21 09:49:55
Local clock offset: -0.325 ms
Remote clock offset: -0.203 ms

# Below is generated by plot.py at 2017-09-21 16:50:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 178.11 Mbit/s
95th percentile per-packet one-way delay: 2.310 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 178.11 Mbit/s
95th percentile per-packet one-way delay: 2.310 ms
Loss rate: 0.02%
```

Run 2: Report of Indigo-calib — Data Link



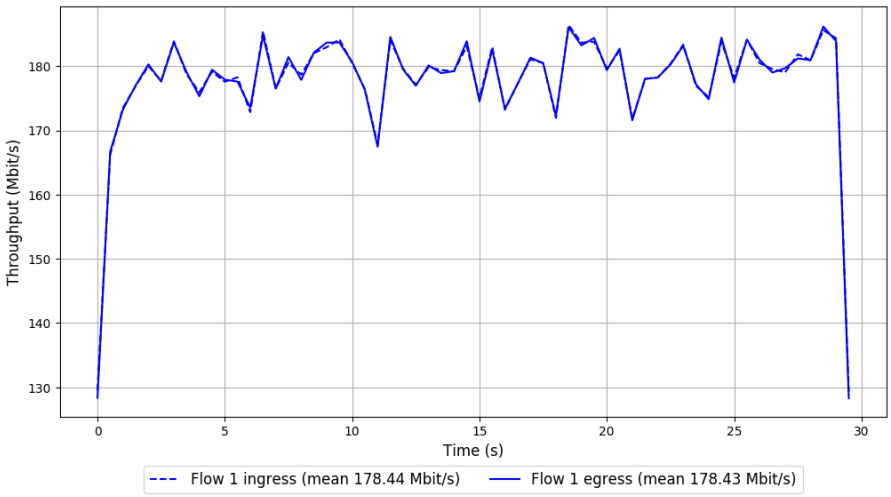


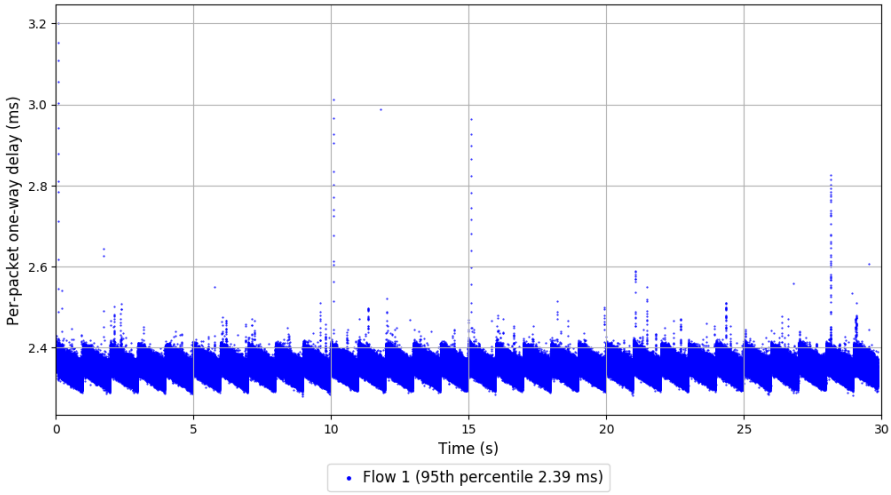
```
Run 3: Statistics of Indigo-calib

Start at: 2017-09-21 10:07:42
End at: 2017-09-21 10:08:12
Local clock offset: -0.183 ms
Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2017-09-21 16:50:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 178.43 Mbit/s
95th percentile per-packet one-way delay: 2.388 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 178.43 Mbit/s
95th percentile per-packet one-way delay: 2.388 ms
Loss rate: 0.02%
```

Run 3: Report of Indigo-calib — Data Link



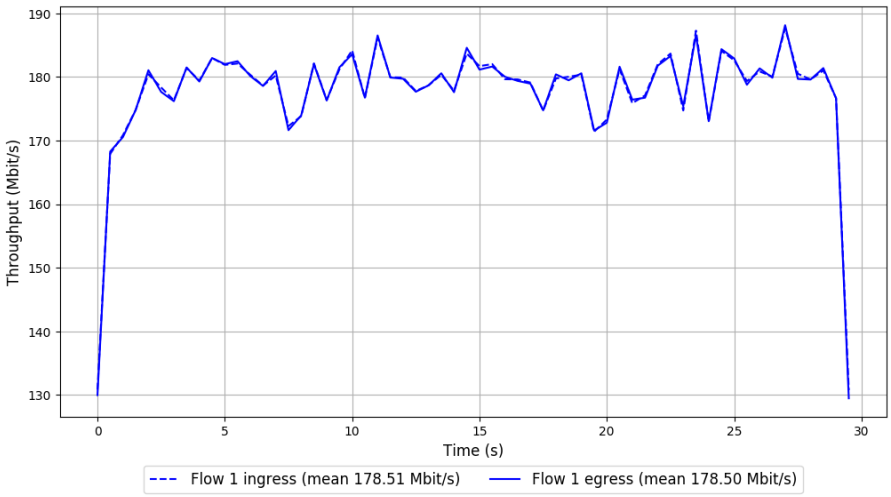


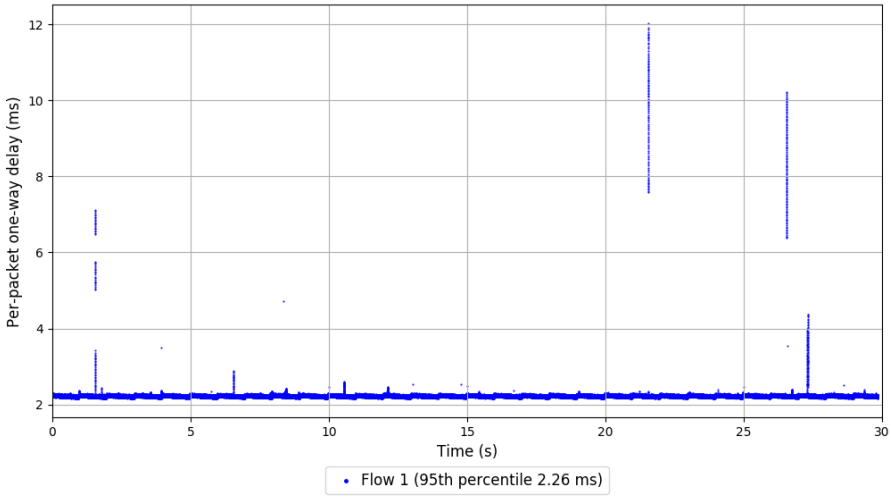
```
Run 4: Statistics of Indigo-calib

Start at: 2017-09-21 10:25:42
End at: 2017-09-21 10:26:12
Local clock offset: -0.234 ms
Remote clock offset: 0.2 ms

# Below is generated by plot.py at 2017-09-21 16:50:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 178.50 Mbit/s
95th percentile per-packet one-way delay: 2.258 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 178.50 Mbit/s
95th percentile per-packet one-way delay: 2.258 ms
Loss rate: 0.02%
```

Run 4: Report of Indigo-calib — Data Link



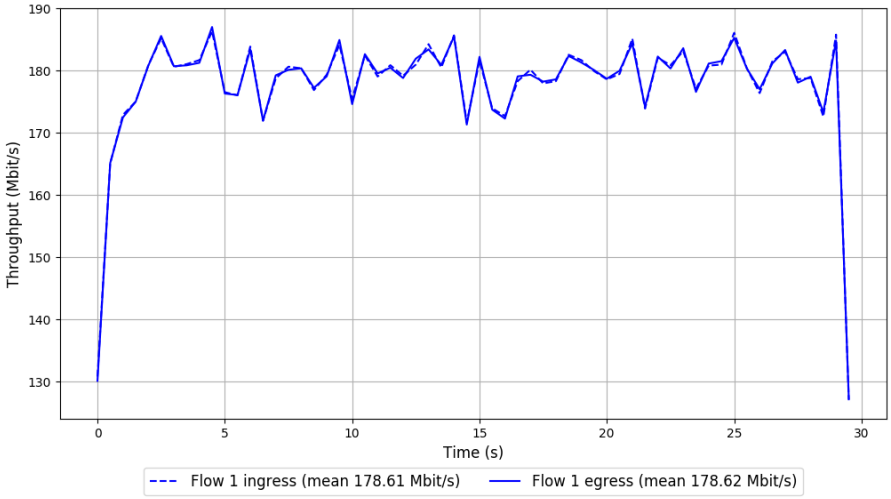


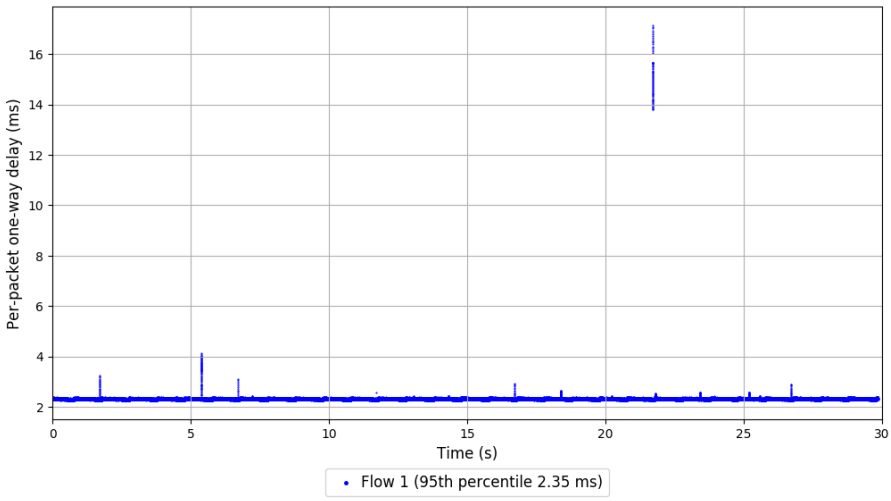
```
Run 5: Statistics of Indigo-calib

Start at: 2017-09-21 10:44:07
End at: 2017-09-21 10:44:37
Local clock offset: -0.083 ms
Remote clock offset: 0.344 ms

# Below is generated by plot.py at 2017-09-21 16:51:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 178.62 Mbit/s
95th percentile per-packet one-way delay: 2.345 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 178.62 Mbit/s
95th percentile per-packet one-way delay: 2.345 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo-calib — Data Link



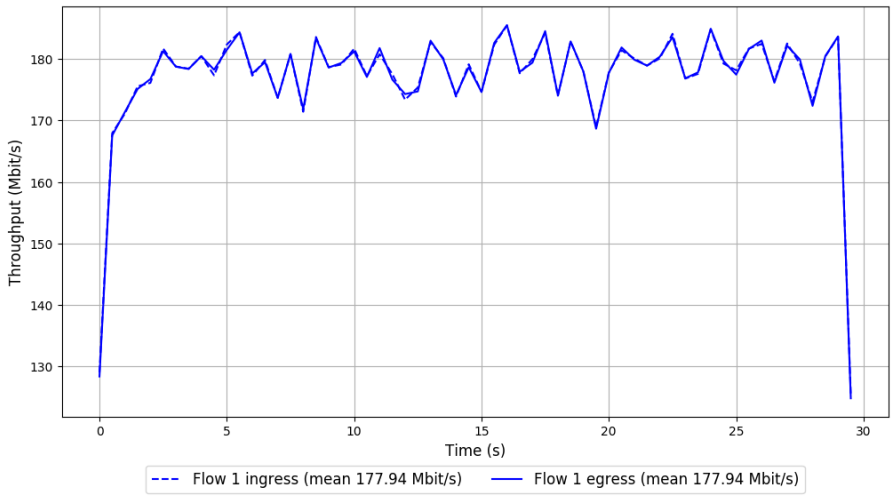


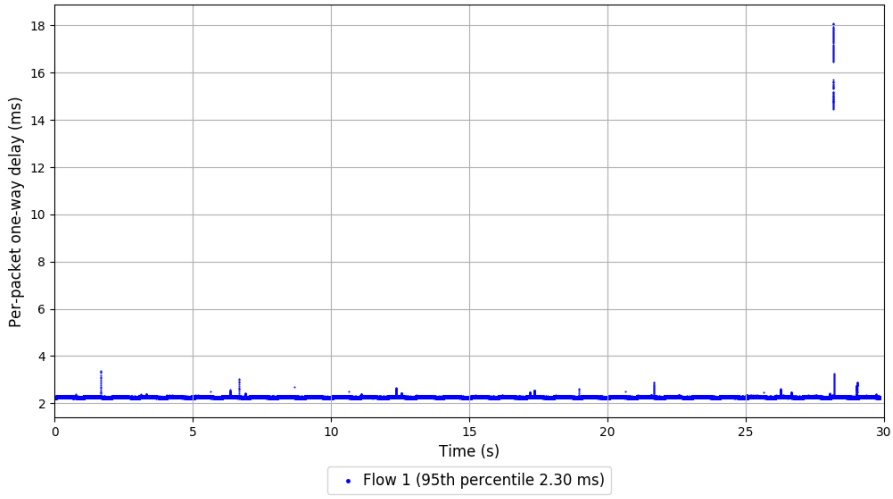
```
Run 6: Statistics of Indigo-calib

Start at: 2017-09-21 11:02:28
End at: 2017-09-21 11:02:58
Local clock offset: -0.073 ms
Remote clock offset: 0.357 ms

# Below is generated by plot.py at 2017-09-21 16:51:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 177.94 Mbit/s
95th percentile per-packet one-way delay: 2.300 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 177.94 Mbit/s
95th percentile per-packet one-way delay: 2.300 ms
Loss rate: 0.01%
```

Run 6: Report of Indigo-calib — Data Link



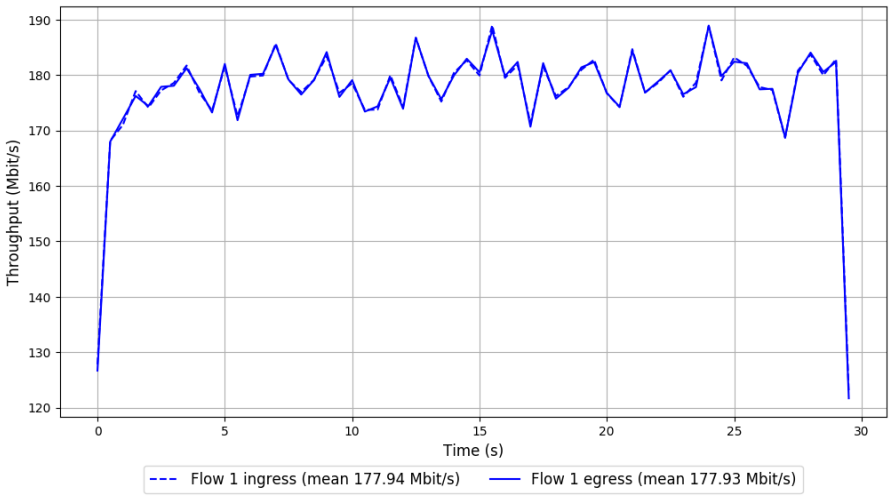


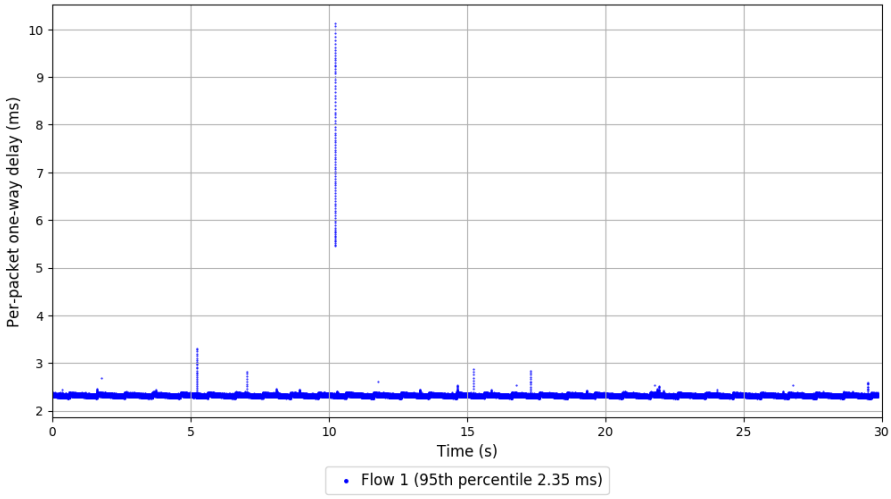
```
Run 7: Statistics of Indigo-calib

Start at: 2017-09-21 11:20:43
End at: 2017-09-21 11:21:13
Local clock offset: 0.07 ms
Remote clock offset: 0.337 ms

# Below is generated by plot.py at 2017-09-21 16:51:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 177.93 Mbit/s
95th percentile per-packet one-way delay: 2.354 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 177.93 Mbit/s
95th percentile per-packet one-way delay: 2.354 ms
Loss rate: 0.02%
```

Run 7: Report of Indigo-calib — Data Link



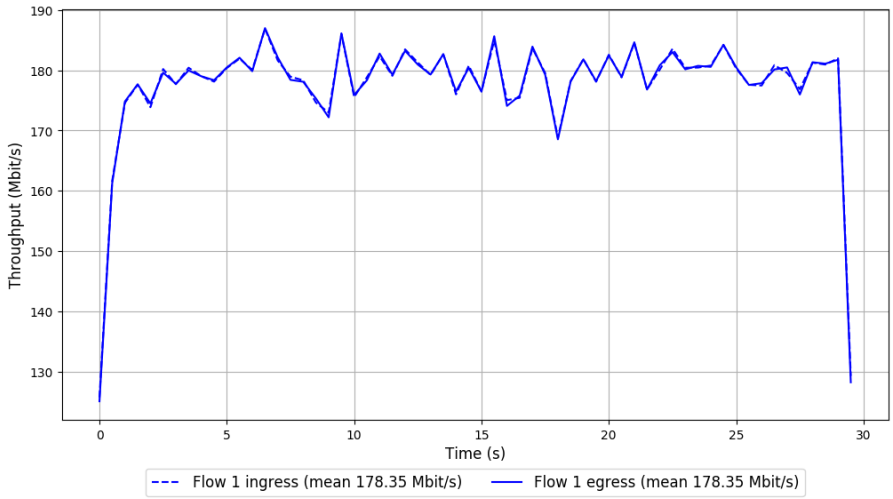


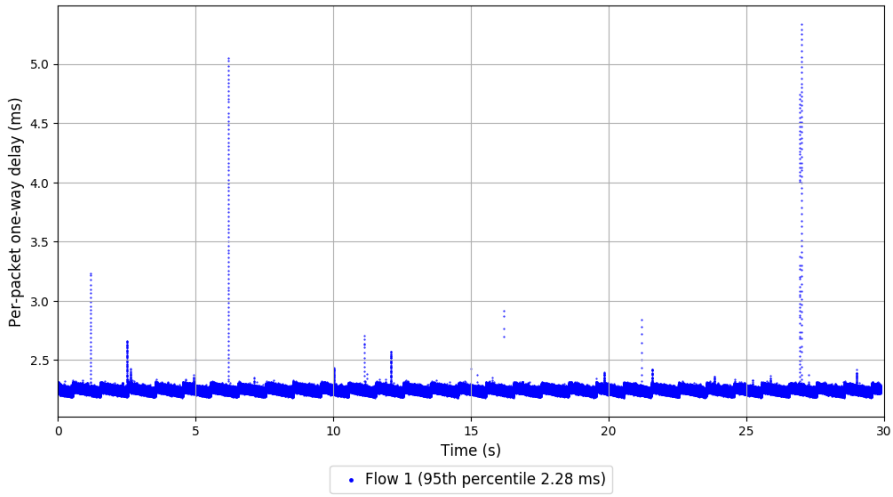
```
Run 8: Statistics of Indigo-calib

Start at: 2017-09-21 11:38:56
End at: 2017-09-21 11:39:26
Local clock offset: 0.139 ms
Remote clock offset: 0.417 ms

# Below is generated by plot.py at 2017-09-21 16:51:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 178.35 Mbit/s
95th percentile per-packet one-way delay: 2.283 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 178.35 Mbit/s
95th percentile per-packet one-way delay: 2.283 ms
Loss rate: 0.02%
```

Run 8: Report of Indigo-calib — Data Link



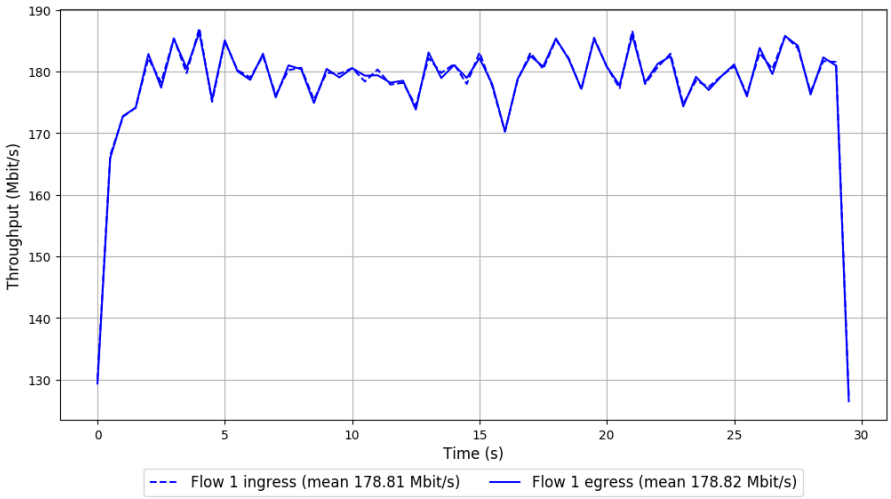


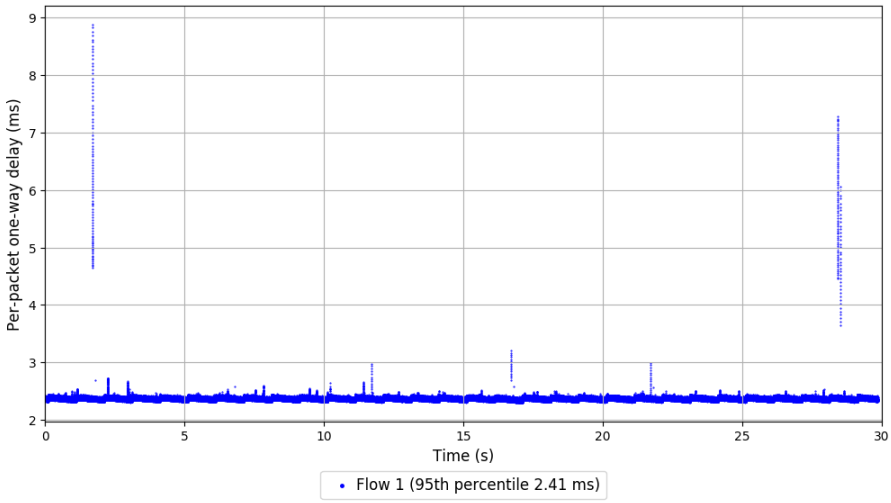
```
Run 9: Statistics of Indigo-calib

Start at: 2017-09-21 11:57:15
End at: 2017-09-21 11:57:45
Local clock offset: 0.295 ms
Remote clock offset: 0.351 ms

# Below is generated by plot.py at 2017-09-21 16:52:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 178.82 Mbit/s
95th percentile per-packet one-way delay: 2.406 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 178.82 Mbit/s
95th percentile per-packet one-way delay: 2.406 ms
Loss rate: 0.02%
```

Run 9: Report of Indigo-calib — Data Link



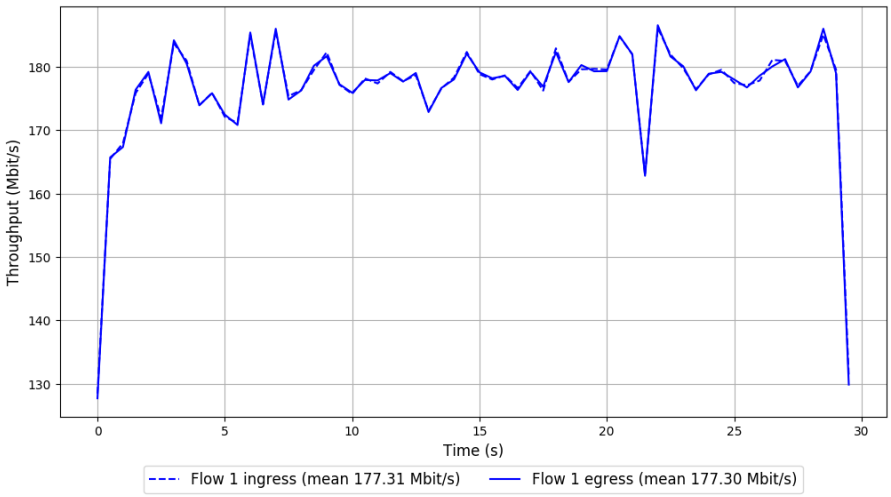


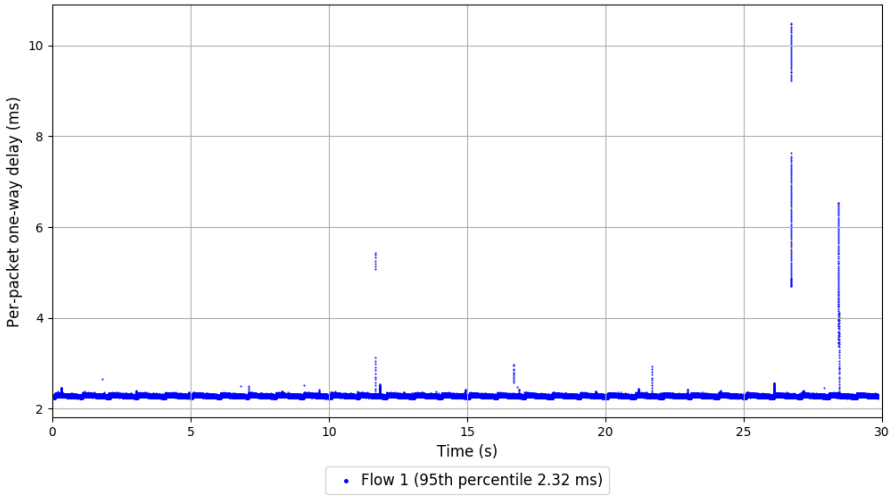
```
Run 10: Statistics of Indigo-calib

Start at: 2017-09-21 12:15:39
End at: 2017-09-21 12:16:09
Local clock offset: 0.34 ms
Remote clock offset: 0.362 ms

# Below is generated by plot.py at 2017-09-21 16:52:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 177.30 Mbit/s
95th percentile per-packet one-way delay: 2.317 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 177.30 Mbit/s
95th percentile per-packet one-way delay: 2.317 ms
Loss rate: 0.02%
```

Run 10: Report of Indigo-calib — Data Link



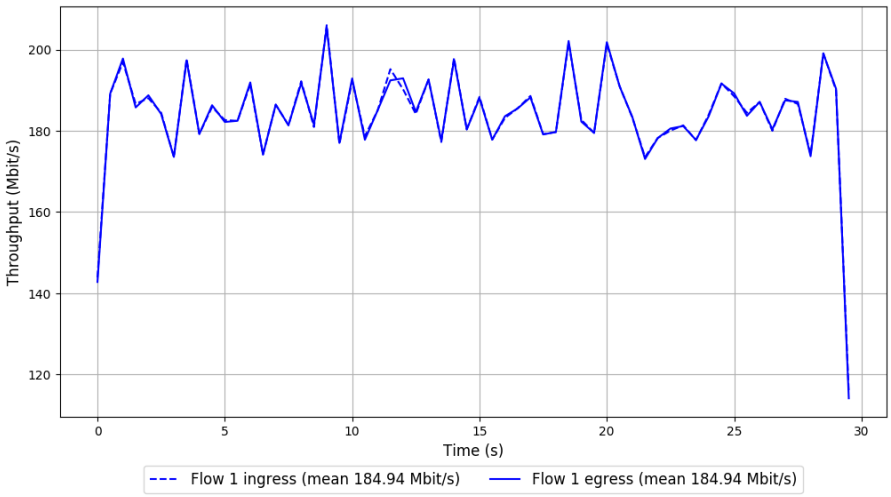


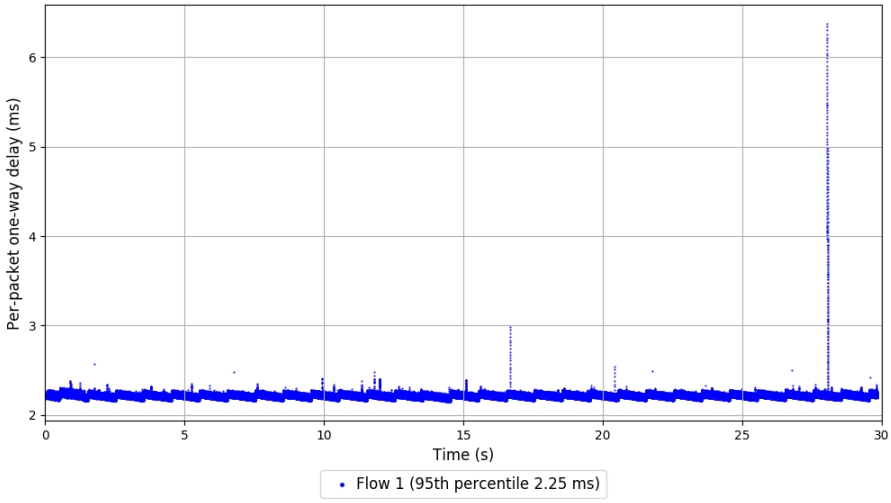
```
Run 1: Statistics of Indigo-delay

Start at: 2017-09-21 09:27:46
End at: 2017-09-21 09:28:16
Local clock offset: -0.413 ms
Remote clock offset: -0.43 ms

# Below is generated by plot.py at 2017-09-21 16:53:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 184.94 Mbit/s
95th percentile per-packet one-way delay: 2.249 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 184.94 Mbit/s
95th percentile per-packet one-way delay: 2.249 ms
Loss rate: 0.02%
```

Run 1: Report of Indigo-delay — Data Link



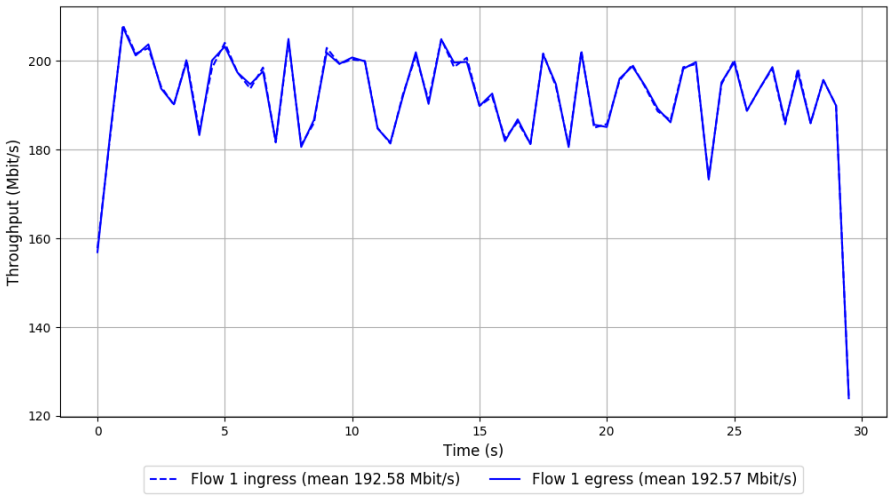


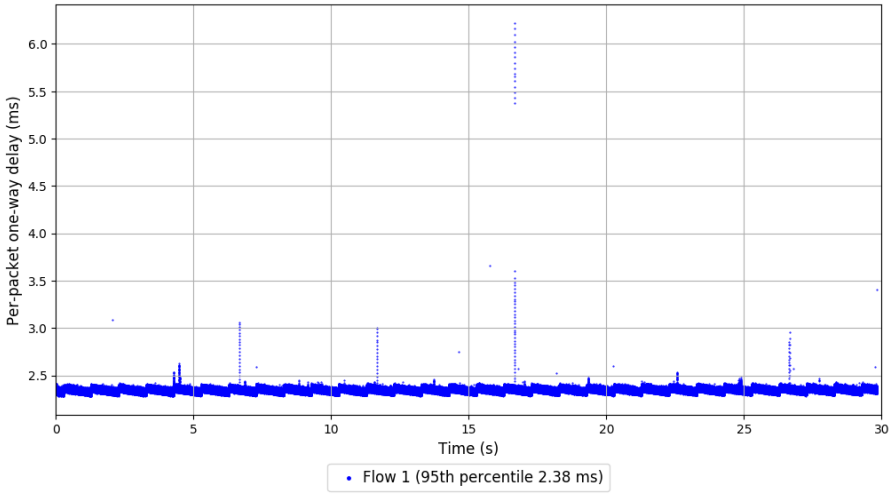
```
Run 2: Statistics of Indigo-delay

Start at: 2017-09-21 09:45:56
End at: 2017-09-21 09:46:26
Local clock offset: -0.29 ms
Remote clock offset: -0.263 ms

# Below is generated by plot.py at 2017-09-21 16:53:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 192.57 Mbit/s
95th percentile per-packet one-way delay: 2.381 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 192.57 Mbit/s
95th percentile per-packet one-way delay: 2.381 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-delay — Data Link



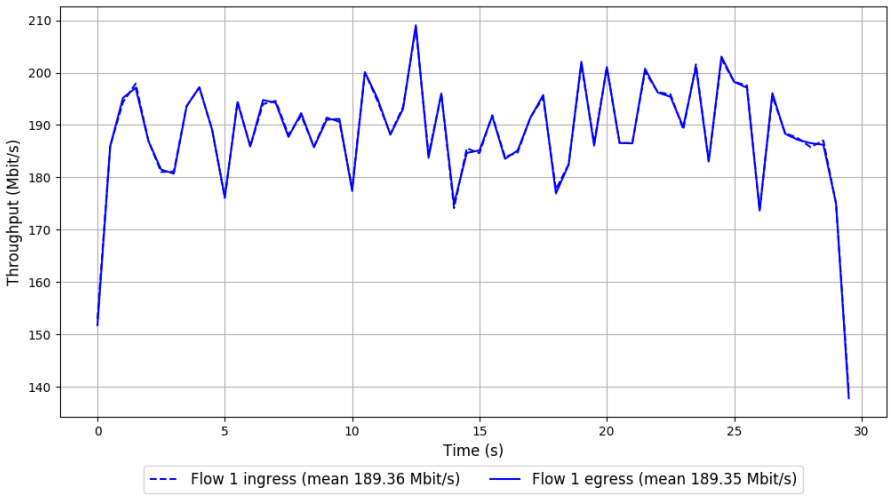


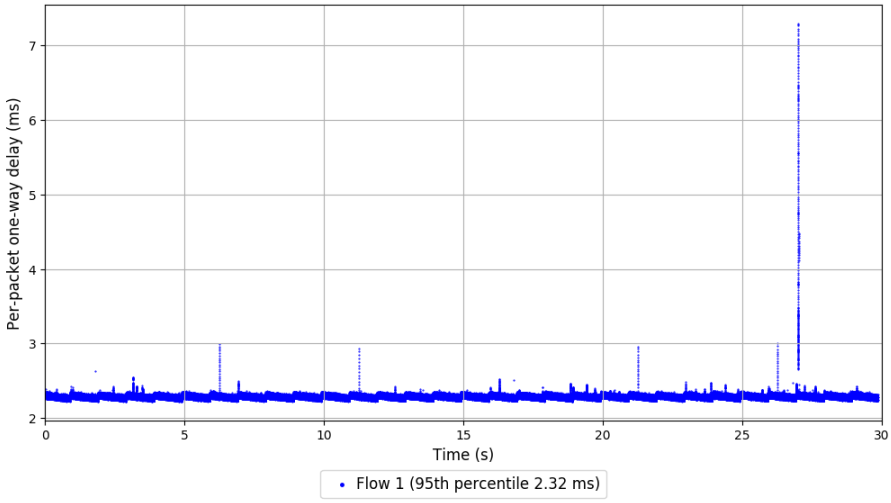
```
Run 3: Statistics of Indigo-delay

Start at: 2017-09-21 10:04:05
End at: 2017-09-21 10:04:35
Local clock offset: -0.189 ms
Remote clock offset: 0.062 ms

# Below is generated by plot.py at 2017-09-21 16:53:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 189.35 Mbit/s
95th percentile per-packet one-way delay: 2.324 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 189.35 Mbit/s
95th percentile per-packet one-way delay: 2.324 ms
Loss rate: 0.02%
```

Run 3: Report of Indigo-delay — Data Link



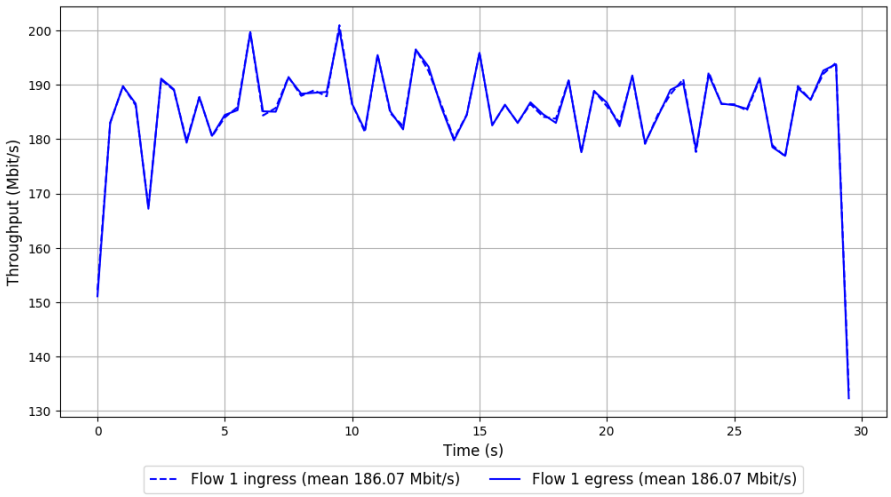


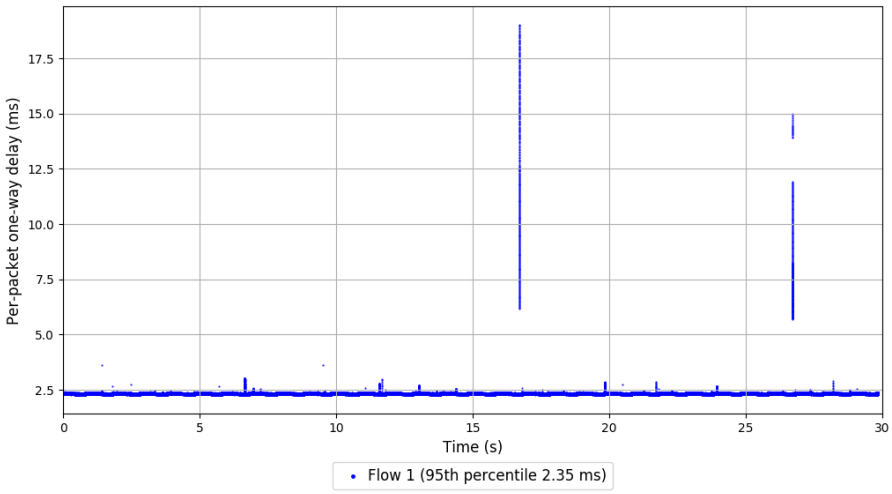
```
Run 4: Statistics of Indigo-delay

Start at: 2017-09-21 10:22:13
End at: 2017-09-21 10:22:43
Local clock offset: -0.159 ms
Remote clock offset: 0.156 ms

# Below is generated by plot.py at 2017-09-21 16:54:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 186.07 Mbit/s
95th percentile per-packet one-way delay: 2.354 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 186.07 Mbit/s
95th percentile per-packet one-way delay: 2.354 ms
Loss rate: 0.02%
```

Run 4: Report of Indigo-delay — Data Link



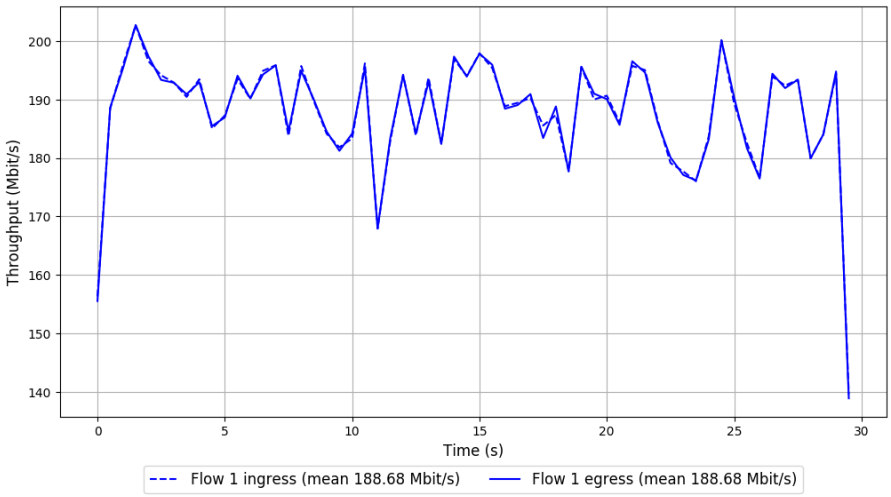


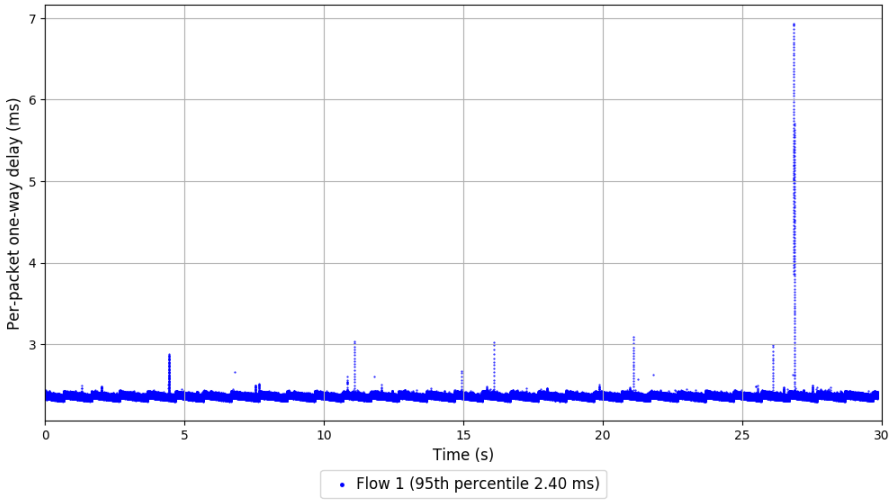
```
Run 5: Statistics of Indigo-delay

Start at: 2017-09-21 10:40:35
End at: 2017-09-21 10:41:05
Local clock offset: -0.066 ms
Remote clock offset: 0.3 ms

# Below is generated by plot.py at 2017-09-21 16:54:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.68 Mbit/s
95th percentile per-packet one-way delay: 2.397 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 188.68 Mbit/s
95th percentile per-packet one-way delay: 2.397 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo-delay — Data Link



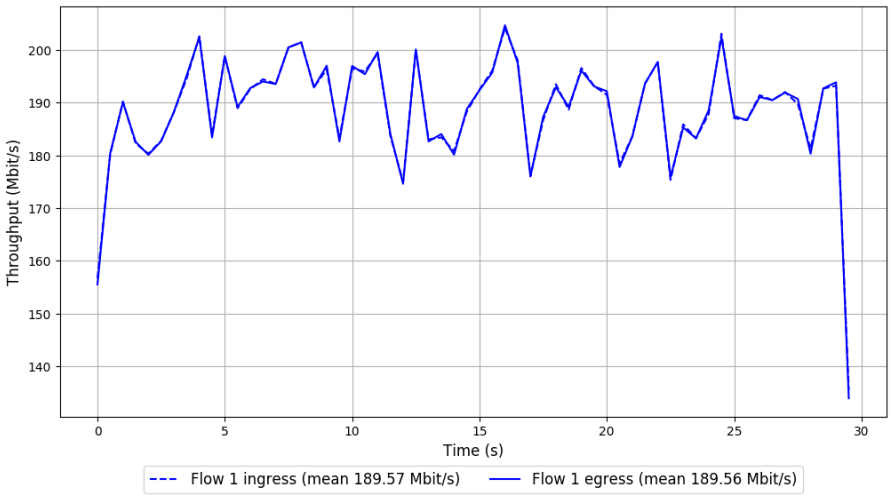


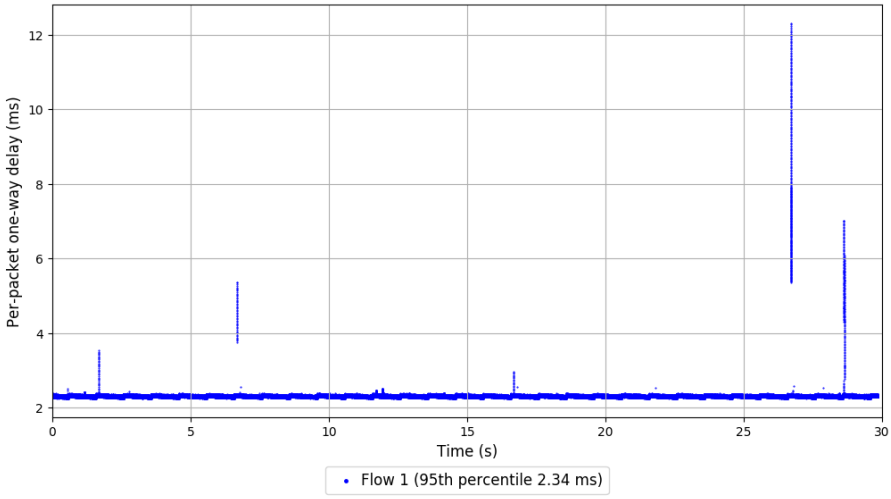
```
Run 6: Statistics of Indigo-delay

Start at: 2017-09-21 10:58:51
End at: 2017-09-21 10:59:21
Local clock offset: 0.005 ms
Remote clock offset: 0.418 ms

# Below is generated by plot.py at 2017-09-21 16:54:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 189.56 Mbit/s
95th percentile per-packet one-way delay: 2.340 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 189.56 Mbit/s
95th percentile per-packet one-way delay: 2.340 ms
Loss rate: 0.02%
```

Run 6: Report of Indigo-delay — Data Link



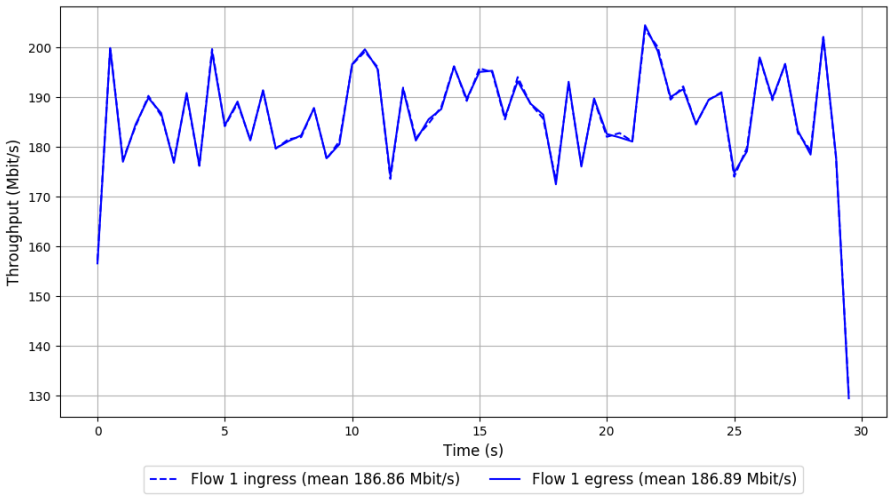


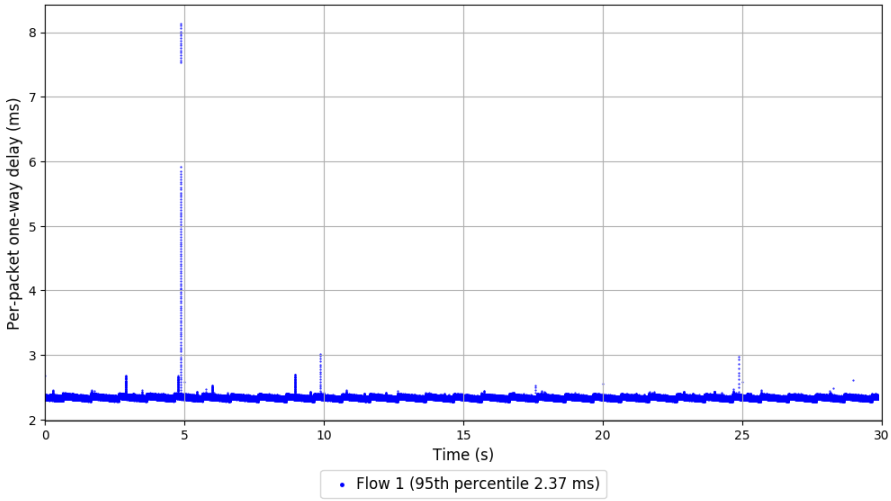
```
Run 7: Statistics of Indigo-delay

Start at: 2017-09-21 11:17:06
End at: 2017-09-21 11:17:36
Local clock offset: 0.084 ms
Remote clock offset: 0.356 ms

# Below is generated by plot.py at 2017-09-21 16:54:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 186.89 Mbit/s
95th percentile per-packet one-way delay: 2.374 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 186.89 Mbit/s
95th percentile per-packet one-way delay: 2.374 ms
Loss rate: 0.01%
```

Run 7: Report of Indigo-delay — Data Link



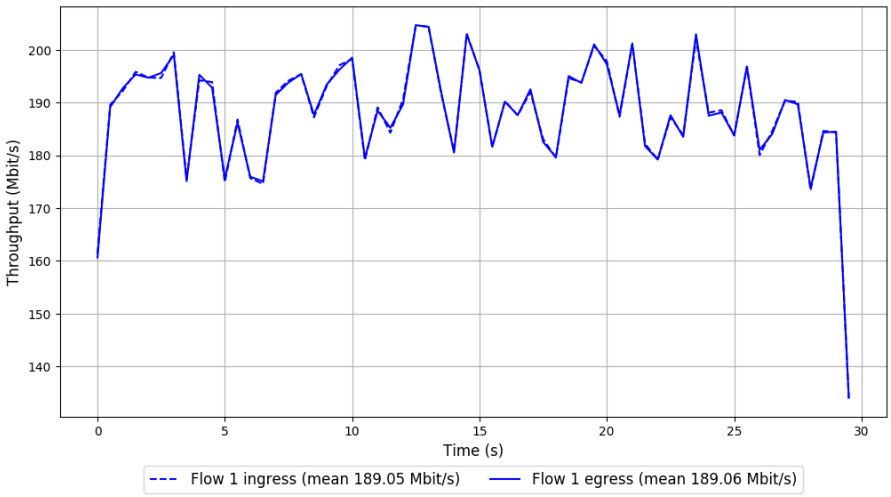


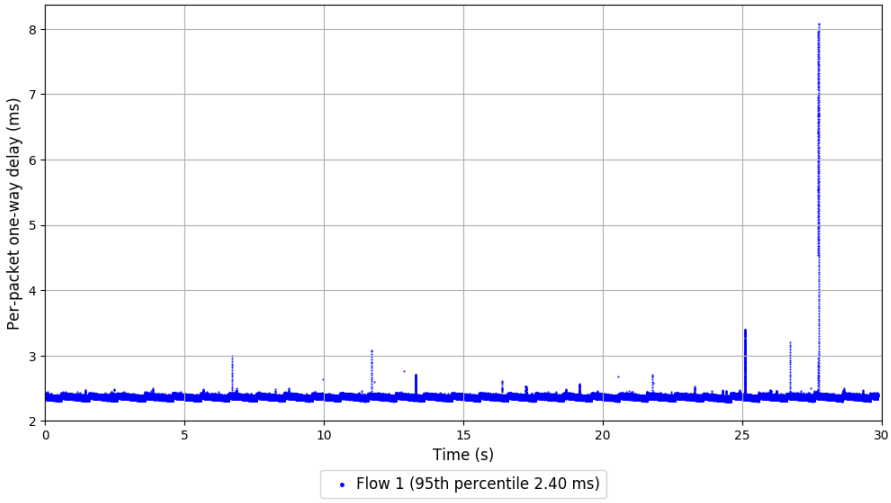
```
Run 8: Statistics of Indigo-delay

Start at: 2017-09-21 11:35:19
End at: 2017-09-21 11:35:49
Local clock offset: 0.182 ms
Remote clock offset: 0.362 ms

# Below is generated by plot.py at 2017-09-21 16:54:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 189.06 Mbit/s
95th percentile per-packet one-way delay: 2.400 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 189.06 Mbit/s
95th percentile per-packet one-way delay: 2.400 ms
Loss rate: 0.01%
```

Run 8: Report of Indigo-delay — Data Link



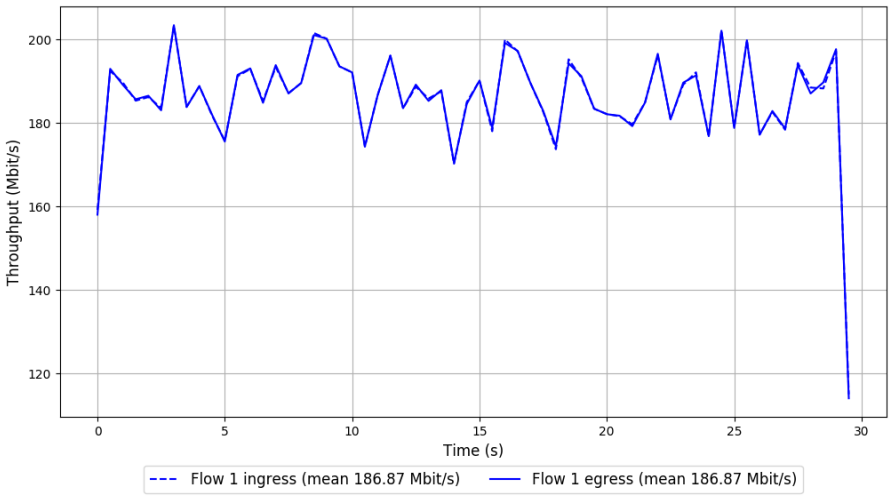


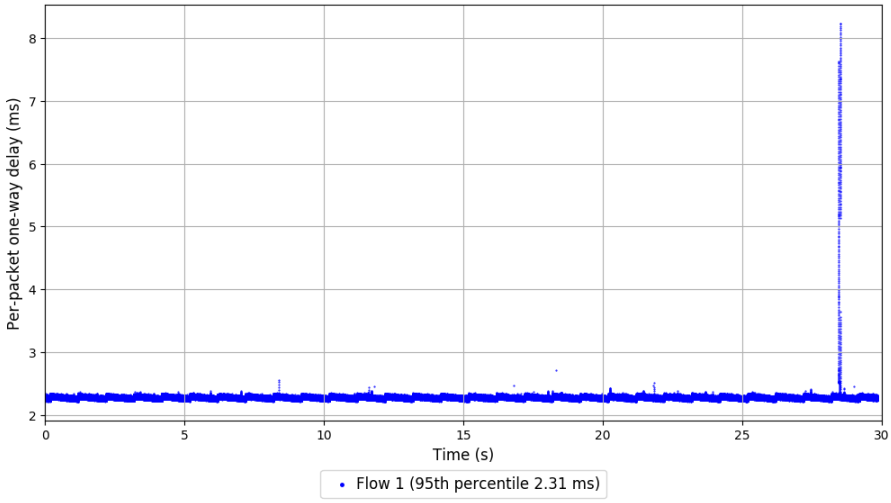
```
Run 9: Statistics of Indigo-delay

Start at: 2017-09-21 11:53:39
End at: 2017-09-21 11:54:09
Local clock offset: 0.213 ms
Remote clock offset: 0.378 ms

# Below is generated by plot.py at 2017-09-21 16:54:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 186.87 Mbit/s
95th percentile per-packet one-way delay: 2.315 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 186.87 Mbit/s
95th percentile per-packet one-way delay: 2.315 ms
Loss rate: 0.01%
```

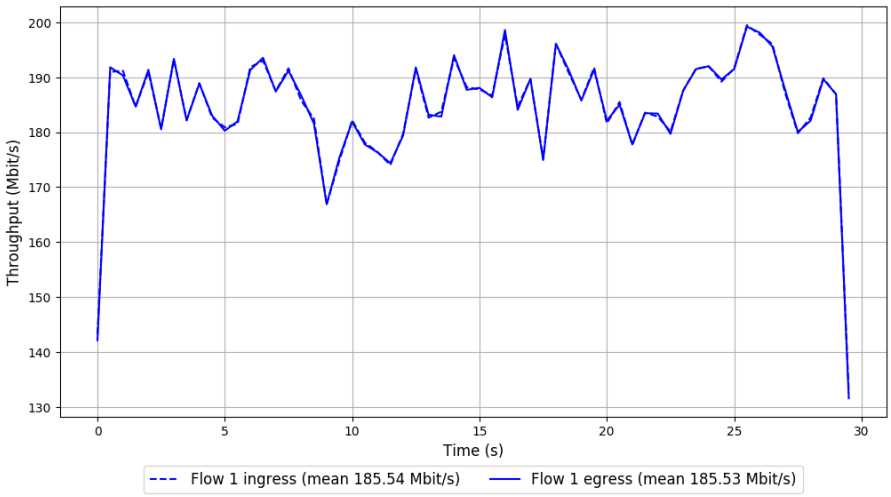
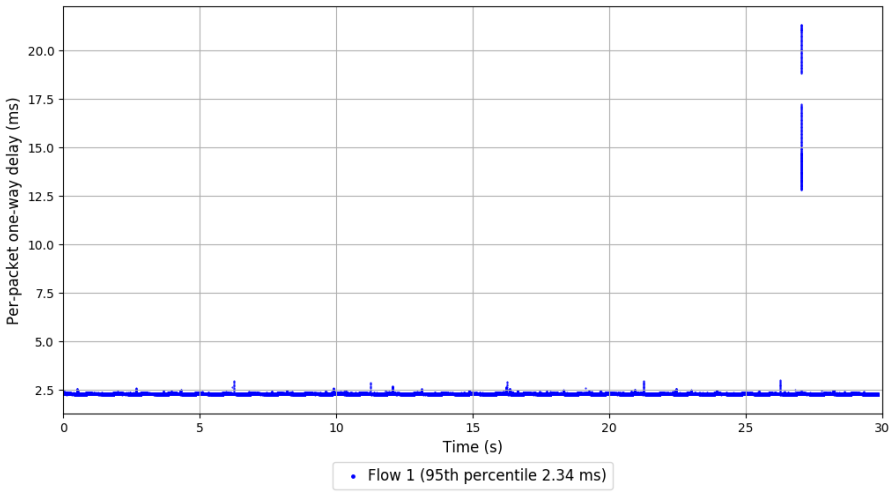
Run 9: Report of Indigo-delay — Data Link





```
Run 10: Statistics of Indigo-delay

Start at: 2017-09-21 12:12:09
End at: 2017-09-21 12:12:39
Local clock offset: 0.279 ms
Remote clock offset: 0.298 ms

# Below is generated by plot.py at 2017-09-21 16:54:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 185.53 Mbit/s
95th percentile per-packet one-way delay: 2.344 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 185.53 Mbit/s
95th percentile per-packet one-way delay: 2.344 ms
Loss rate: 0.02%
```

Run 10: Report of Indigo-delay — Data Link