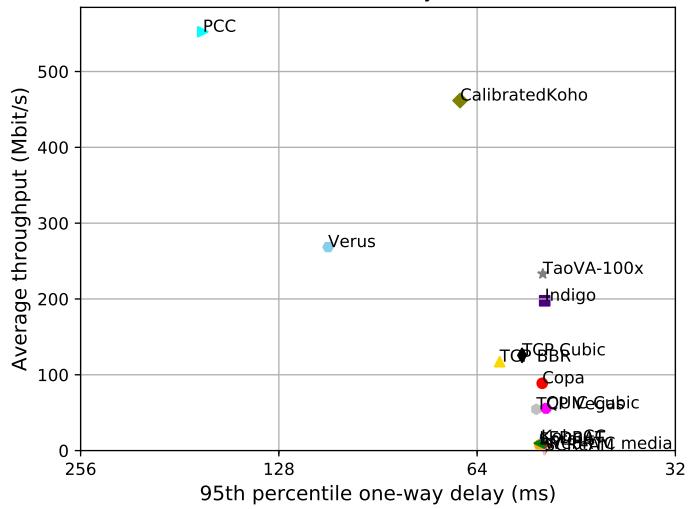


Pantheon Report

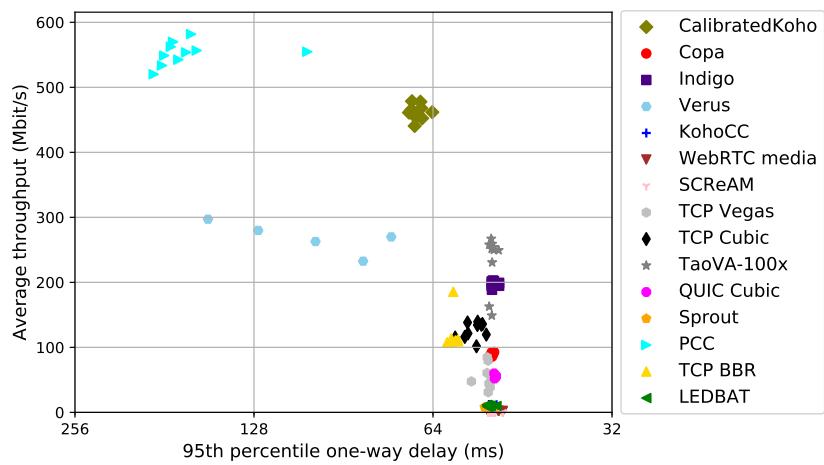
Generated at 2017-09-18 08:19:24 (UTC).
Data path: GCE Iowa Ethernet (*local*) → GCE London Ethernet (*remote*).
Repeated the test of 15 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

```
Git summary:  
branch: master @ 57453dc11f8da93a2e03eea75289fea01b816298  
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50  
  M datagrump/sender.cc  
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366  
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55  
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681  
  M datagrump/sender.cc  
third_party/libutp @ b3465b942e2826f2b179aab4a906ce6bb7cf3cf  
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 @ 6f2efef6e088d91066a9f023df375eee2665089ce  
  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 GCE Iowa Ethernet to GCE London Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE Iowa Ethernet to GCE London Ethernet, 10 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	117.29	59.15	0.02
CalibratedKoho	10	461.73	67.93	0.03
Copa	10	88.75	50.97	0.00
TCP Cubic	10	125.65	54.69	0.01
Indigo	10	197.61	50.53	0.00
KohoCC	10	11.64	51.18	0.01
LEDBAT	10	9.72	51.50	0.06
PCC	10	552.43	166.95	1.05
QUIC Cubic	4	55.70	50.30	0.00
SCReAM	10	0.22	50.58	0.00
Sprout	10	7.95	51.55	0.01
TaoVA-100x	10	233.14	50.87	0.00
TCP Vegas	8	54.50	52.03	0.00
Verus	5	268.45	107.77	0.20
WebRTC media	10	2.27	50.52	0.00

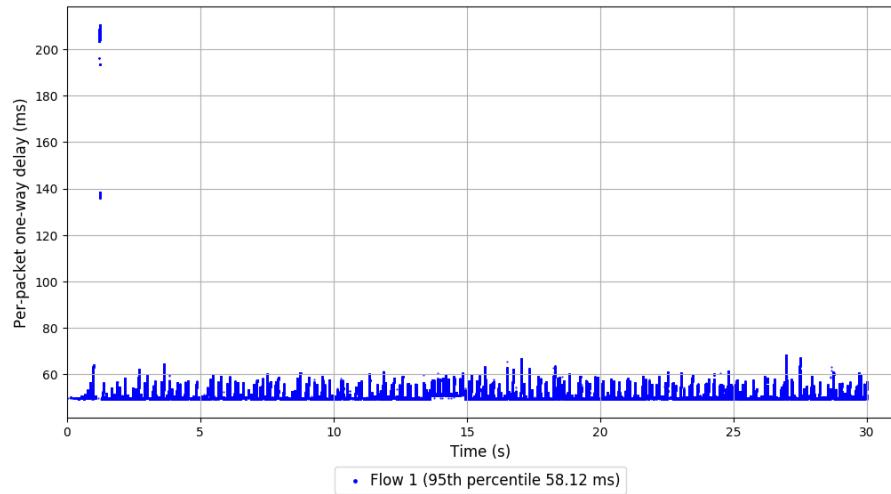
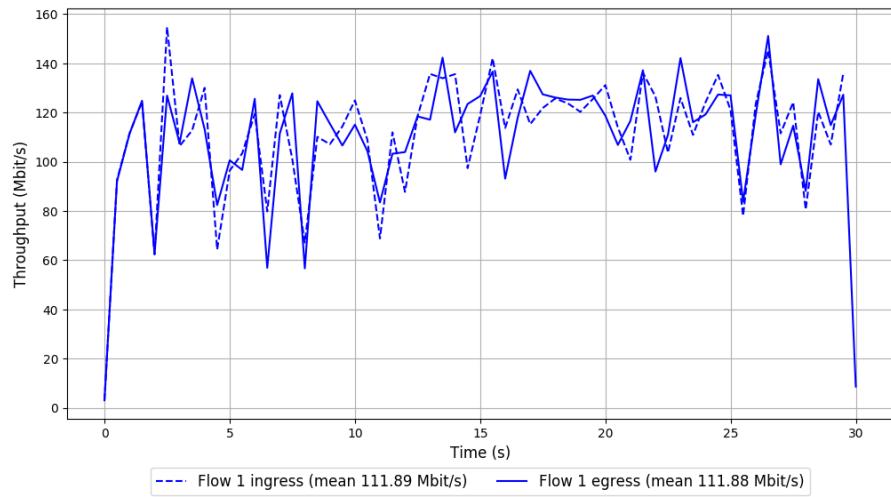
Run 1: Statistics of TCP BBR

Start at: 2017-09-18 04:26:05

End at: 2017-09-18 04:26:35

```
# Below is generated by plot.py at 2017-09-18 07:32:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 111.88 Mbit/s
95th percentile per-packet one-way delay: 58.119 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 111.88 Mbit/s
95th percentile per-packet one-way delay: 58.119 ms
Loss rate: 0.00%
```

Run 1: Report of TCP BBR — Data Link



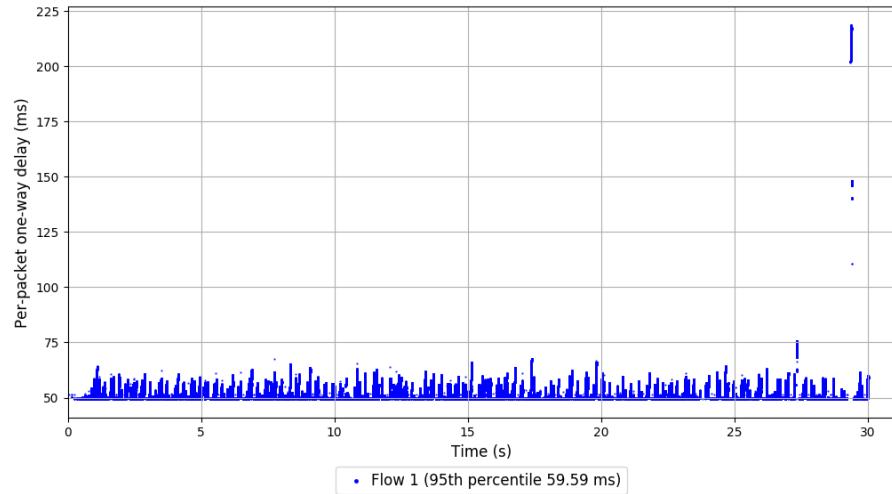
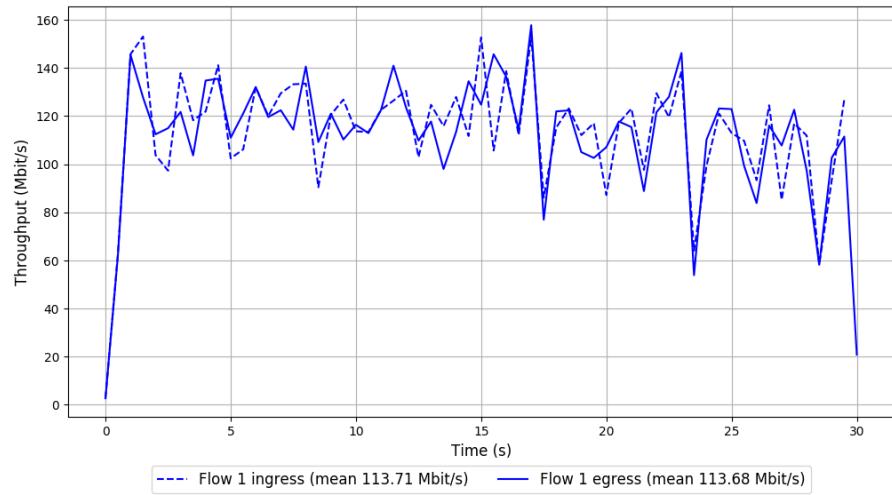
Run 2: Statistics of TCP BBR

Start at: 2017-09-18 04:37:07

End at: 2017-09-18 04:37:37

```
# Below is generated by plot.py at 2017-09-18 07:32:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 113.68 Mbit/s
95th percentile per-packet one-way delay: 59.595 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 113.68 Mbit/s
95th percentile per-packet one-way delay: 59.595 ms
Loss rate: 0.00%
```

Run 2: Report of TCP BBR — Data Link



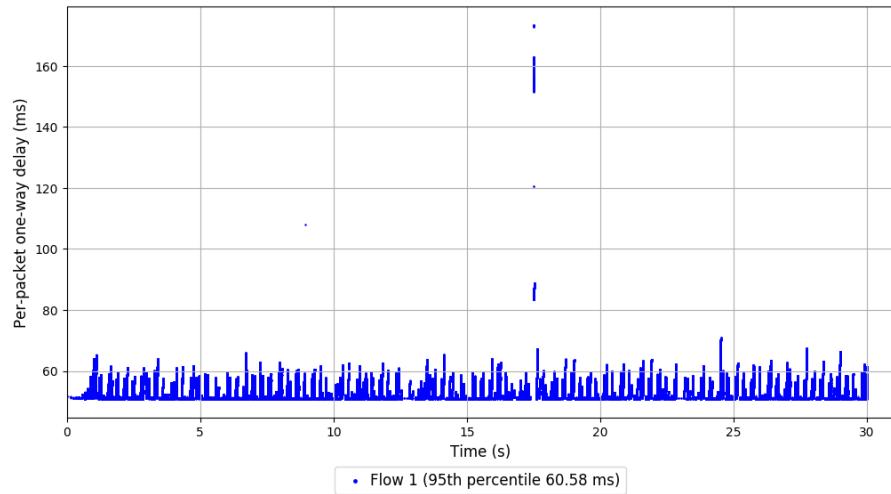
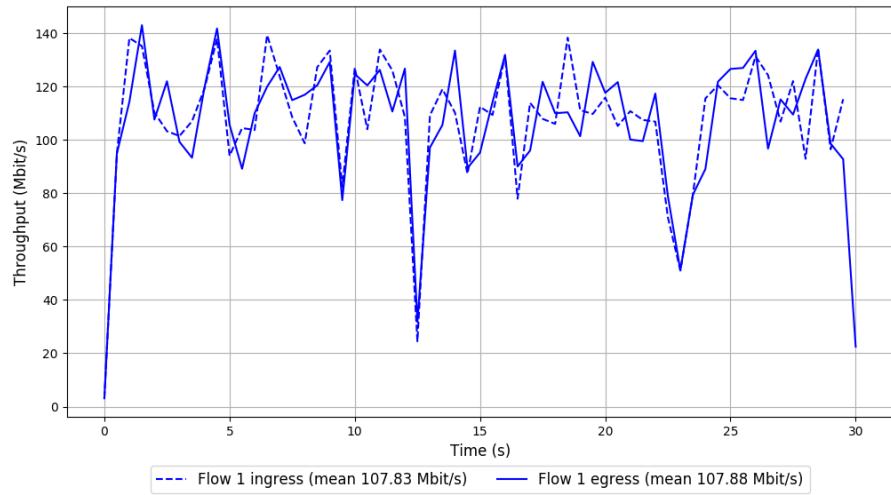
Run 3: Statistics of TCP BBR

Start at: 2017-09-18 04:48:19

End at: 2017-09-18 04:48:49

```
# Below is generated by plot.py at 2017-09-18 07:32:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 107.88 Mbit/s
95th percentile per-packet one-way delay: 60.577 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 107.88 Mbit/s
95th percentile per-packet one-way delay: 60.577 ms
Loss rate: 0.00%
```

Run 3: Report of TCP BBR — Data Link



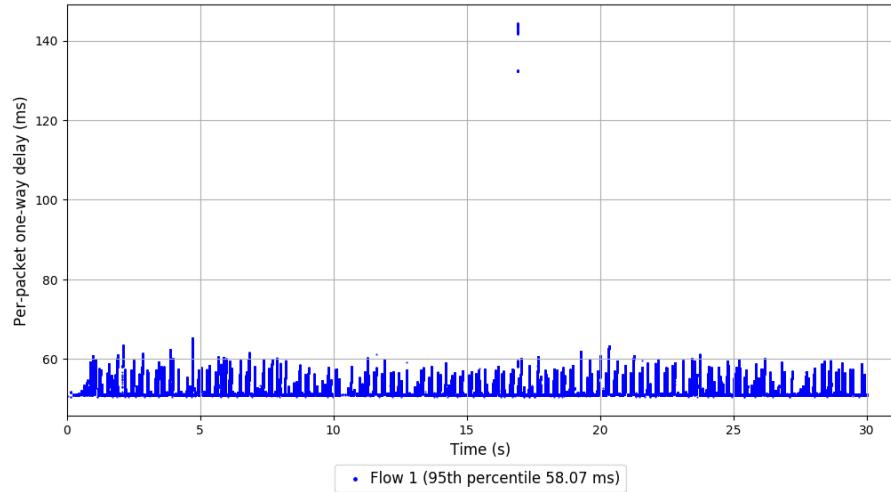
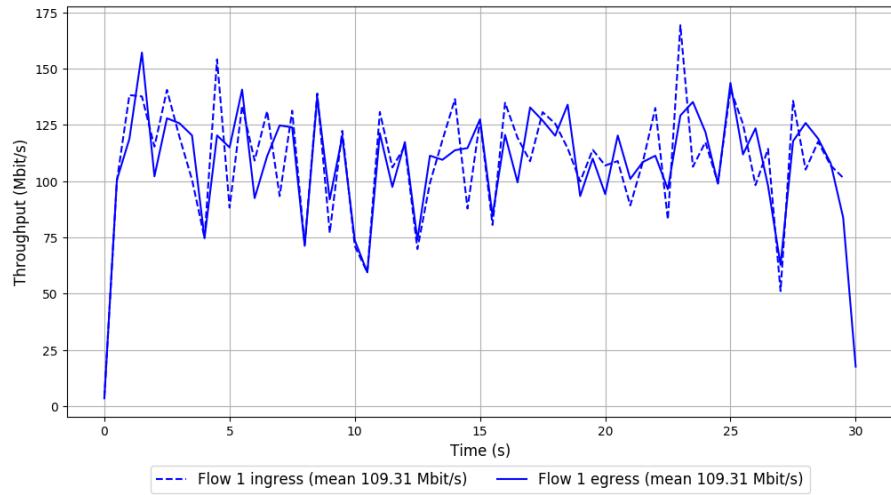
Run 4: Statistics of TCP BBR

Start at: 2017-09-18 04:59:19

End at: 2017-09-18 04:59:49

```
# Below is generated by plot.py at 2017-09-18 07:32:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 109.31 Mbit/s
95th percentile per-packet one-way delay: 58.066 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 109.31 Mbit/s
95th percentile per-packet one-way delay: 58.066 ms
Loss rate: 0.00%
```

Run 4: Report of TCP BBR — Data Link



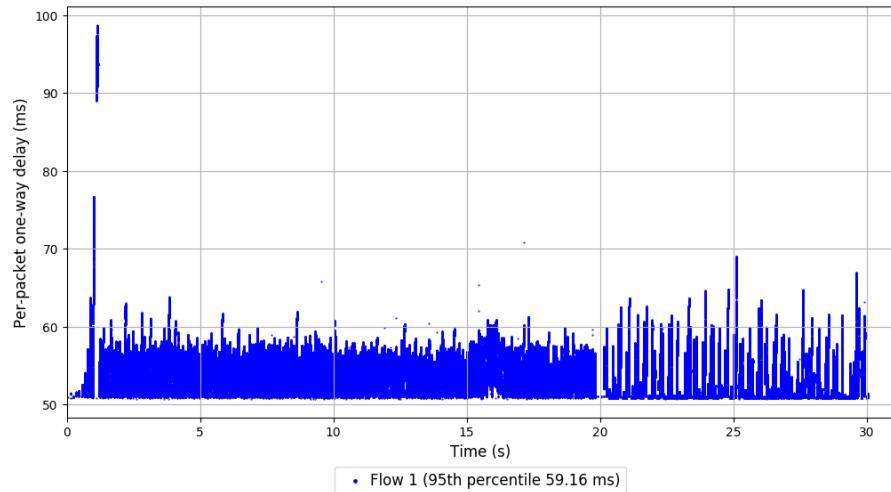
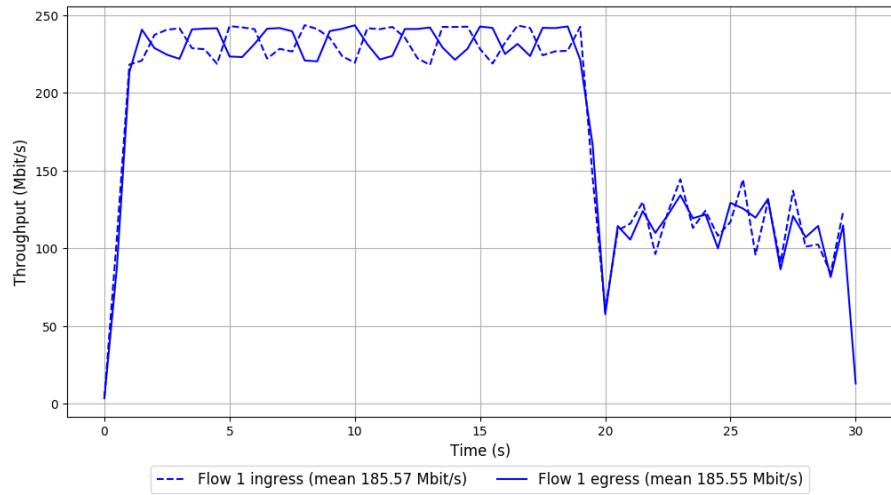
Run 5: Statistics of TCP BBR

Start at: 2017-09-18 05:10:35

End at: 2017-09-18 05:11:05

```
# Below is generated by plot.py at 2017-09-18 07:33:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 185.55 Mbit/s
95th percentile per-packet one-way delay: 59.163 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 185.55 Mbit/s
95th percentile per-packet one-way delay: 59.163 ms
Loss rate: 0.01%
```

Run 5: Report of TCP BBR — Data Link



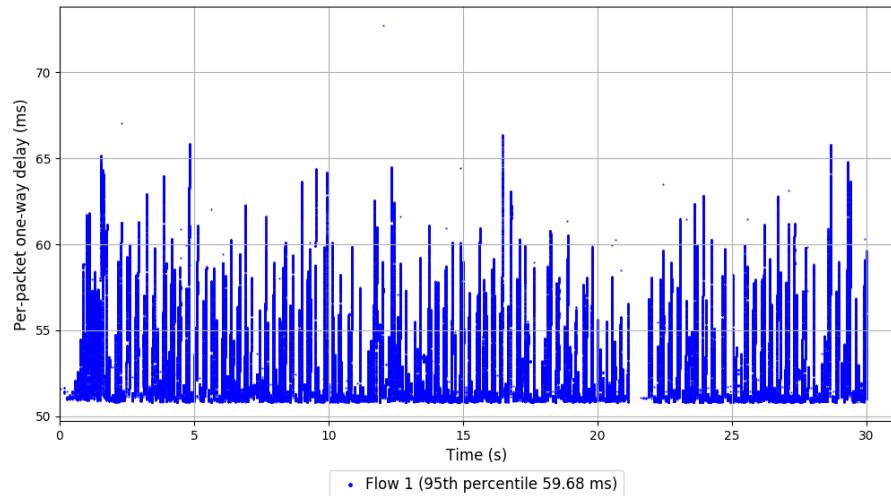
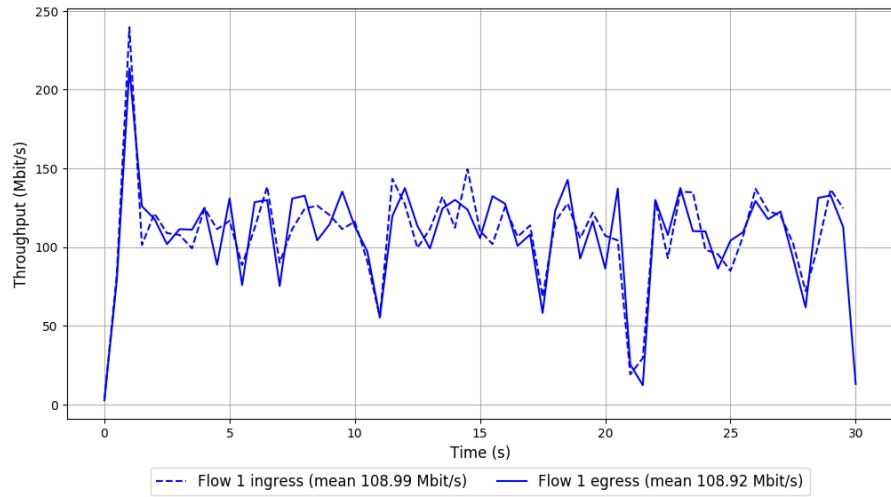
Run 6: Statistics of TCP BBR

Start at: 2017-09-18 05:21:40

End at: 2017-09-18 05:22:10

```
# Below is generated by plot.py at 2017-09-18 07:33:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 108.92 Mbit/s
95th percentile per-packet one-way delay: 59.676 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 108.92 Mbit/s
95th percentile per-packet one-way delay: 59.676 ms
Loss rate: 0.04%
```

Run 6: Report of TCP BBR — Data Link



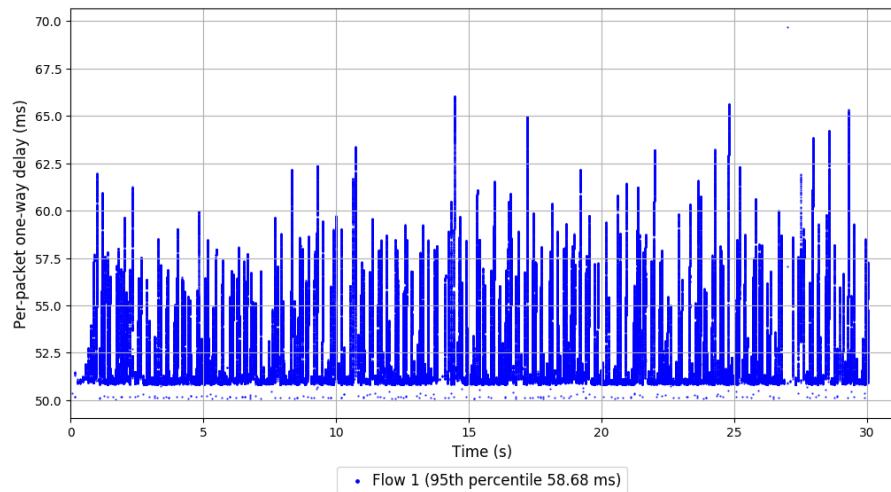
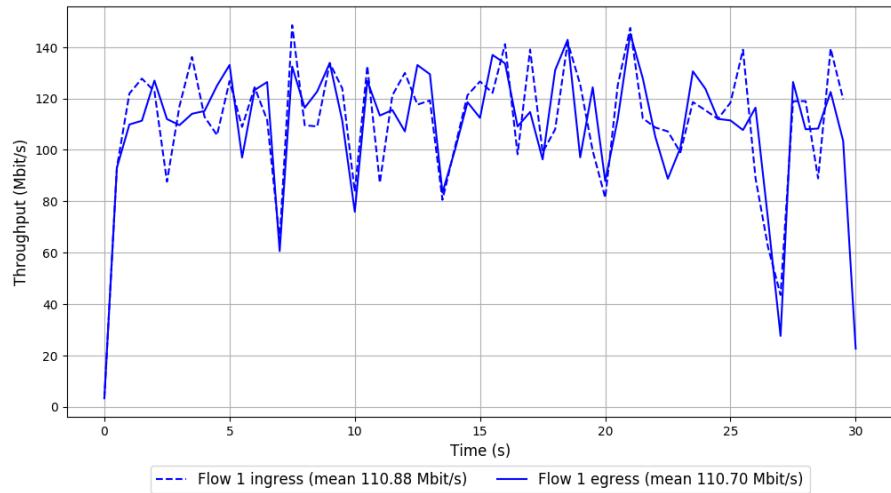
Run 7: Statistics of TCP BBR

Start at: 2017-09-18 05:32:57

End at: 2017-09-18 05:33:27

```
# Below is generated by plot.py at 2017-09-18 07:33:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 110.70 Mbit/s
95th percentile per-packet one-way delay: 58.681 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 110.70 Mbit/s
95th percentile per-packet one-way delay: 58.681 ms
Loss rate: 0.16%
```

Run 7: Report of TCP BBR — Data Link



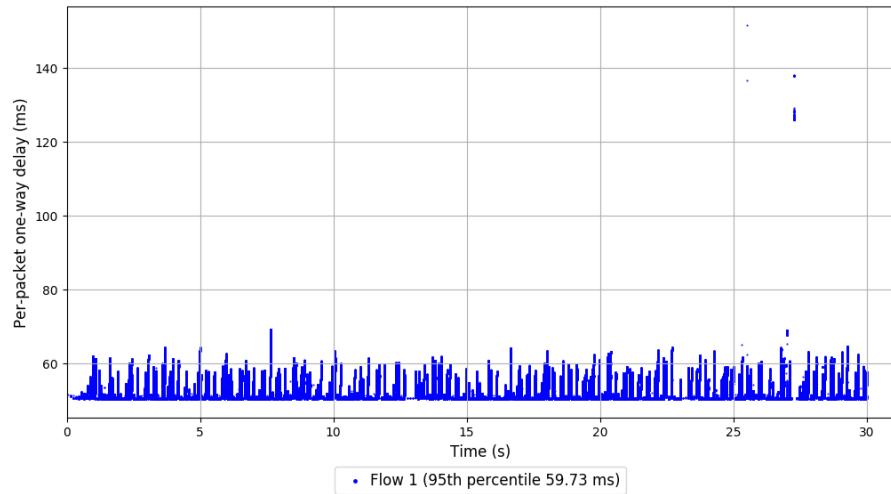
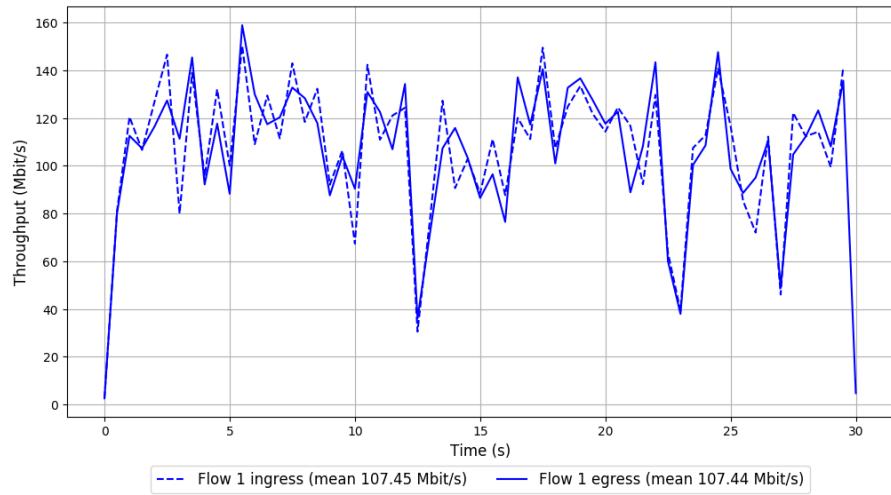
Run 8: Statistics of TCP BBR

Start at: 2017-09-18 05:44:09

End at: 2017-09-18 05:44:39

```
# Below is generated by plot.py at 2017-09-18 07:33:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 107.44 Mbit/s
95th percentile per-packet one-way delay: 59.729 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 107.44 Mbit/s
95th percentile per-packet one-way delay: 59.729 ms
Loss rate: 0.01%
```

Run 8: Report of TCP BBR — Data Link



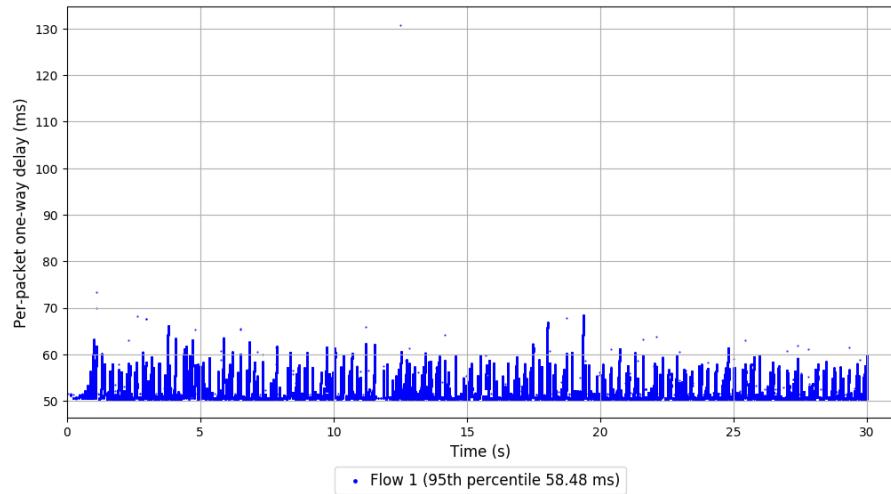
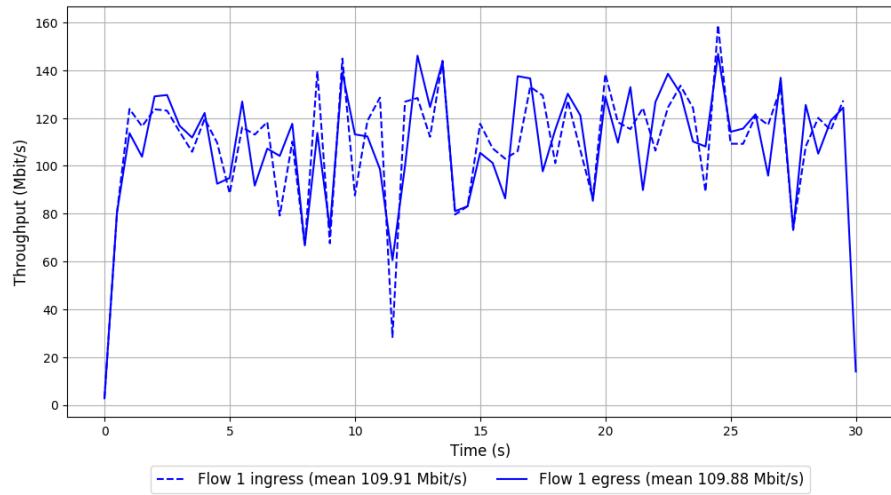
Run 9: Statistics of TCP BBR

Start at: 2017-09-18 05:55:27

End at: 2017-09-18 05:55:57

```
# Below is generated by plot.py at 2017-09-18 07:33:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 109.88 Mbit/s
95th percentile per-packet one-way delay: 58.478 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 109.88 Mbit/s
95th percentile per-packet one-way delay: 58.478 ms
Loss rate: 0.00%
```

Run 9: Report of TCP BBR — Data Link



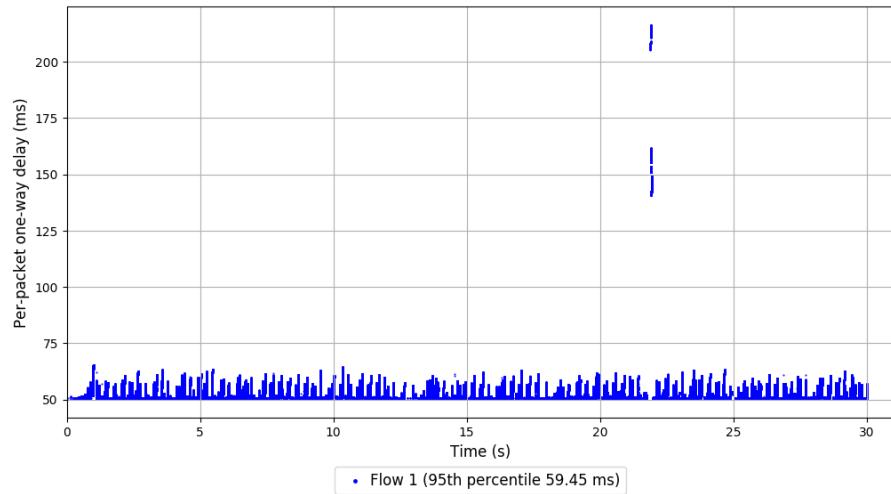
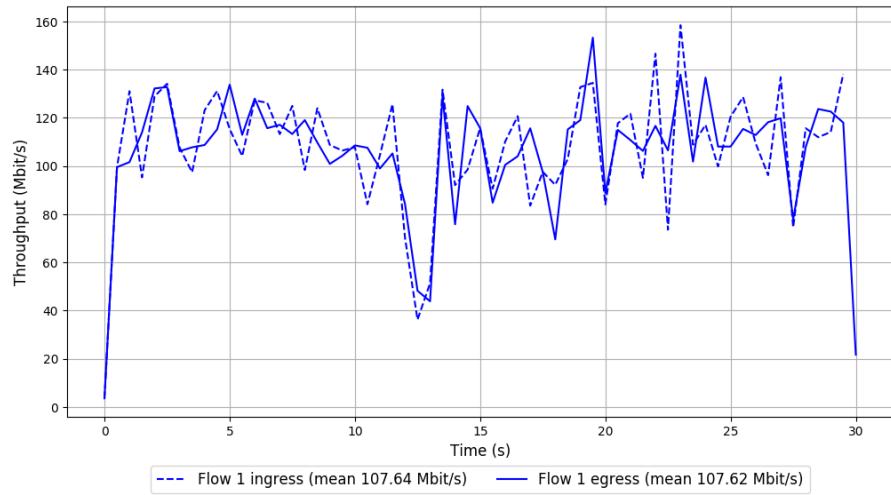
Run 10: Statistics of TCP BBR

Start at: 2017-09-18 06:06:44

End at: 2017-09-18 06:07:14

```
# Below is generated by plot.py at 2017-09-18 07:33:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 107.62 Mbit/s
95th percentile per-packet one-way delay: 59.450 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 107.62 Mbit/s
95th percentile per-packet one-way delay: 59.450 ms
Loss rate: 0.00%
```

Run 10: Report of TCP BBR — Data Link

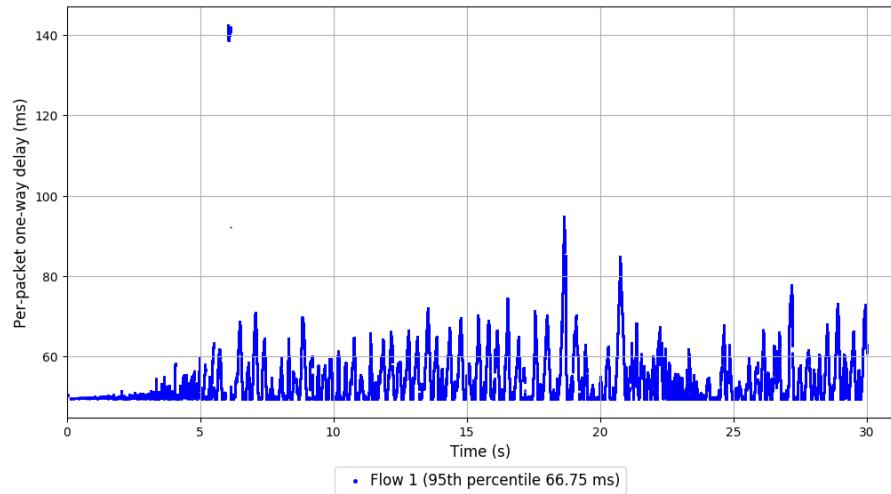
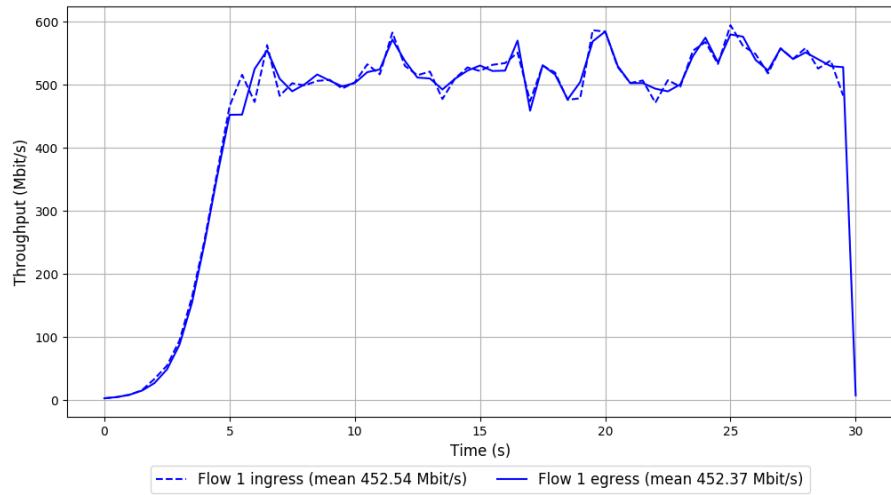


```
Run 1: Statistics of CalibratedKoho

Start at: 2017-09-18 04:29:00
End at: 2017-09-18 04:29:30

# Below is generated by plot.py at 2017-09-18 07:40:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 452.37 Mbit/s
95th percentile per-packet one-way delay: 66.748 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 452.37 Mbit/s
95th percentile per-packet one-way delay: 66.748 ms
Loss rate: 0.04%
```

Run 1: Report of CalibratedKoho — Data Link



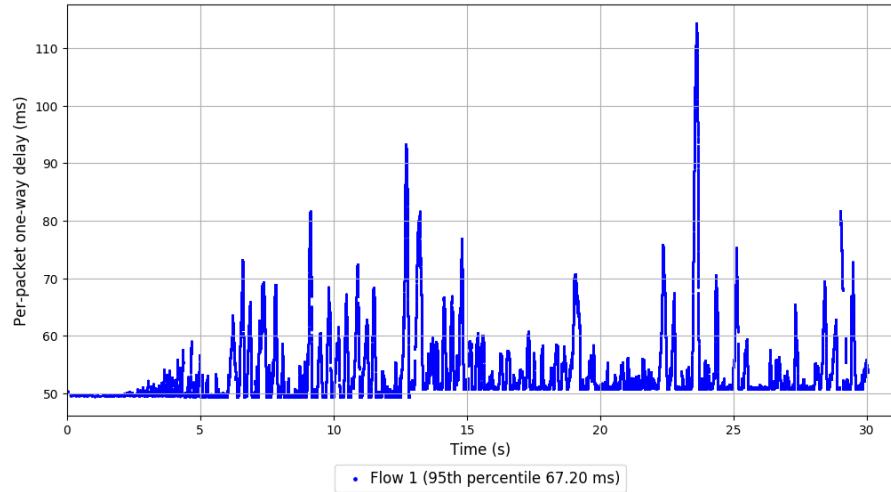
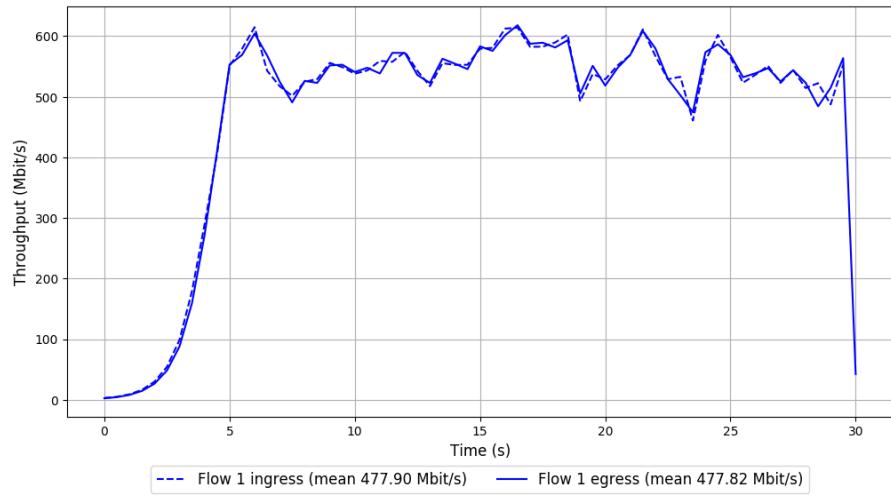
Run 2: Statistics of CalibratedKoho

Start at: 2017-09-18 04:39:54

End at: 2017-09-18 04:40:24

```
# Below is generated by plot.py at 2017-09-18 07:40:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 477.82 Mbit/s
95th percentile per-packet one-way delay: 67.197 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 477.82 Mbit/s
95th percentile per-packet one-way delay: 67.197 ms
Loss rate: 0.02%
```

Run 2: Report of CalibratedKoho — Data Link



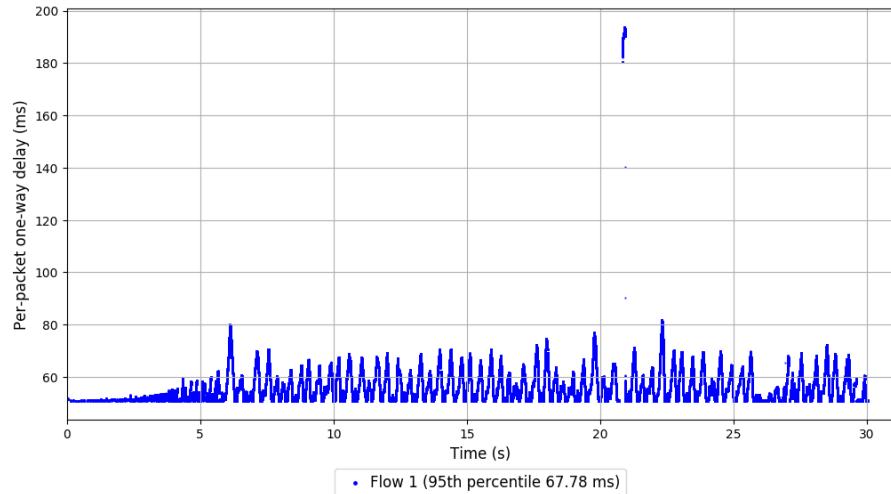
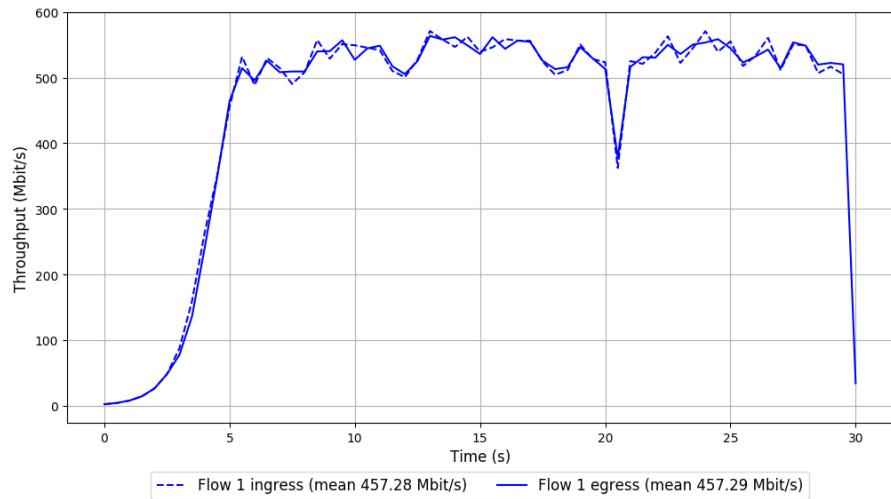
```
Run 3: Statistics of CalibratedKoho
```

```
Start at: 2017-09-18 04:51:15
```

```
End at: 2017-09-18 04:51:45
```

```
# Below is generated by plot.py at 2017-09-18 07:40:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 457.29 Mbit/s
95th percentile per-packet one-way delay: 67.780 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 457.29 Mbit/s
95th percentile per-packet one-way delay: 67.780 ms
Loss rate: 0.00%
```

Run 3: Report of CalibratedKoho — Data Link



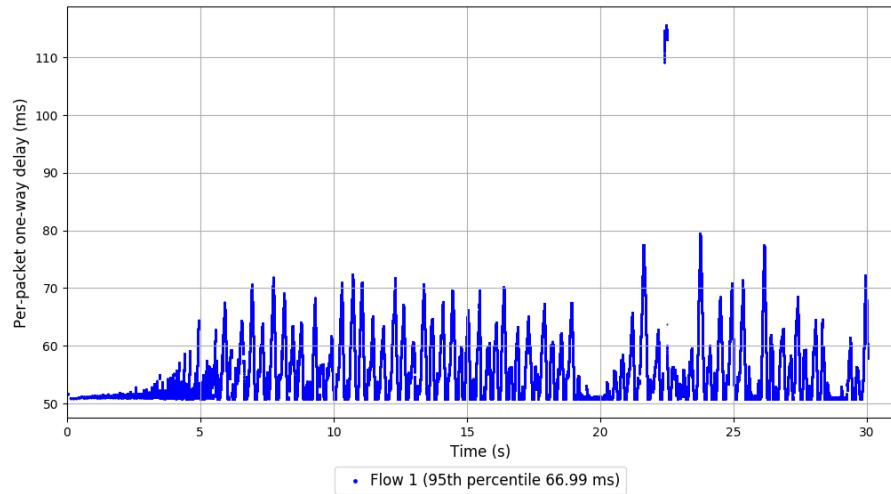
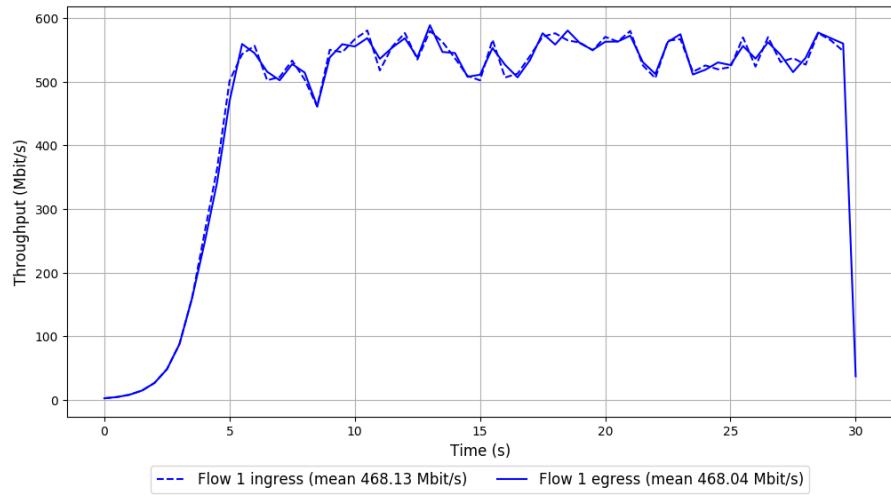
Run 4: Statistics of CalibratedKoho

Start at: 2017-09-18 05:02:14

End at: 2017-09-18 05:02:44

```
# Below is generated by plot.py at 2017-09-18 07:40:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 468.04 Mbit/s
95th percentile per-packet one-way delay: 66.988 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 468.04 Mbit/s
95th percentile per-packet one-way delay: 66.988 ms
Loss rate: 0.03%
```

Run 4: Report of CalibratedKoho — Data Link



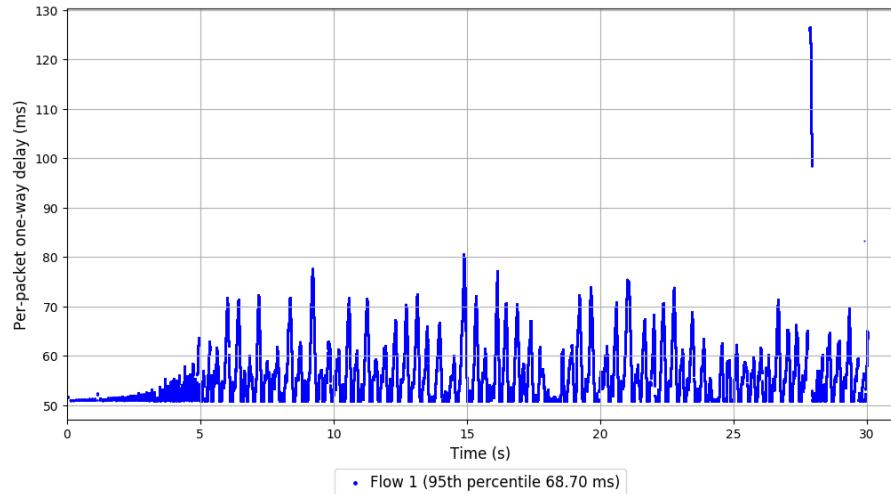
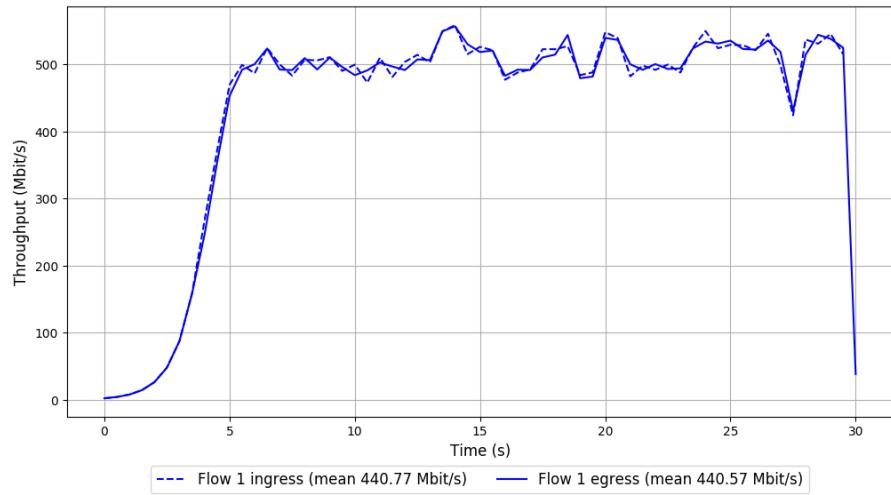
Run 5: Statistics of CalibratedKoho

Start at: 2017-09-18 05:13:33

End at: 2017-09-18 05:14:03

```
# Below is generated by plot.py at 2017-09-18 07:40:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 440.57 Mbit/s
95th percentile per-packet one-way delay: 68.703 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 440.57 Mbit/s
95th percentile per-packet one-way delay: 68.703 ms
Loss rate: 0.05%
```

Run 5: Report of CalibratedKoho — Data Link



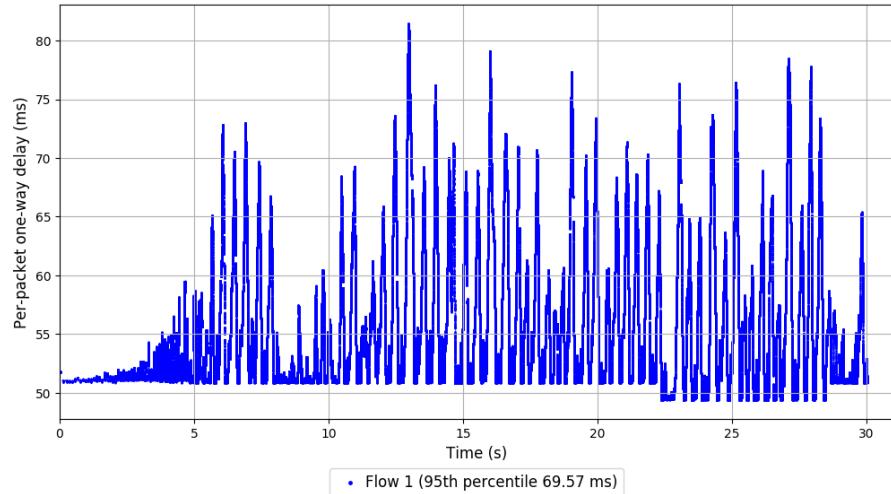
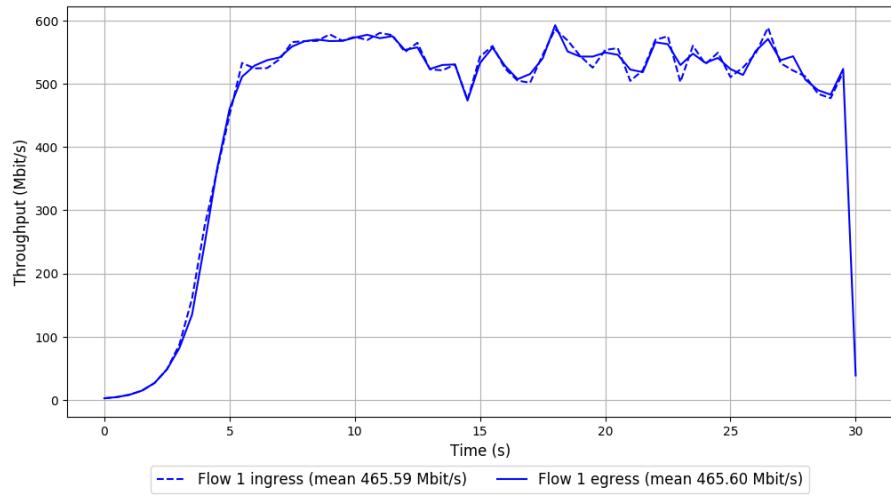
Run 6: Statistics of CalibratedKoho

Start at: 2017-09-18 05:24:26

End at: 2017-09-18 05:24:56

```
# Below is generated by plot.py at 2017-09-18 07:41:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 465.60 Mbit/s
95th percentile per-packet one-way delay: 69.570 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 465.60 Mbit/s
95th percentile per-packet one-way delay: 69.570 ms
Loss rate: 0.00%
```

Run 6: Report of CalibratedKoho — Data Link



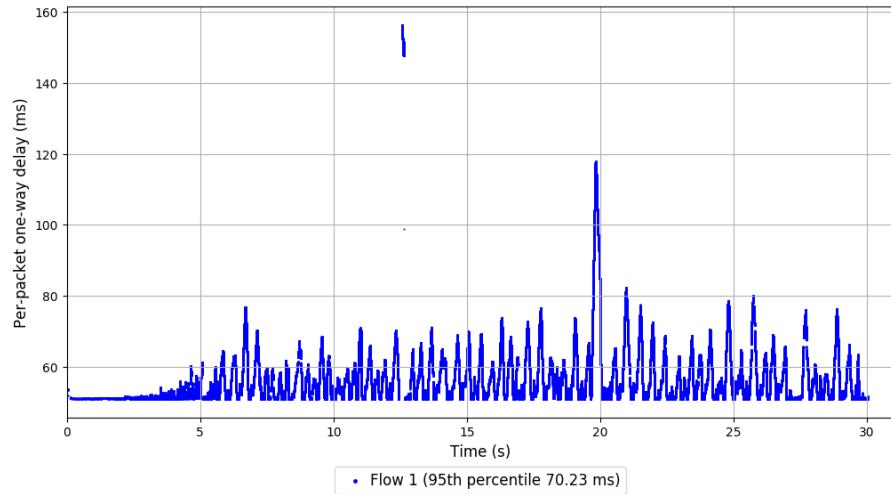
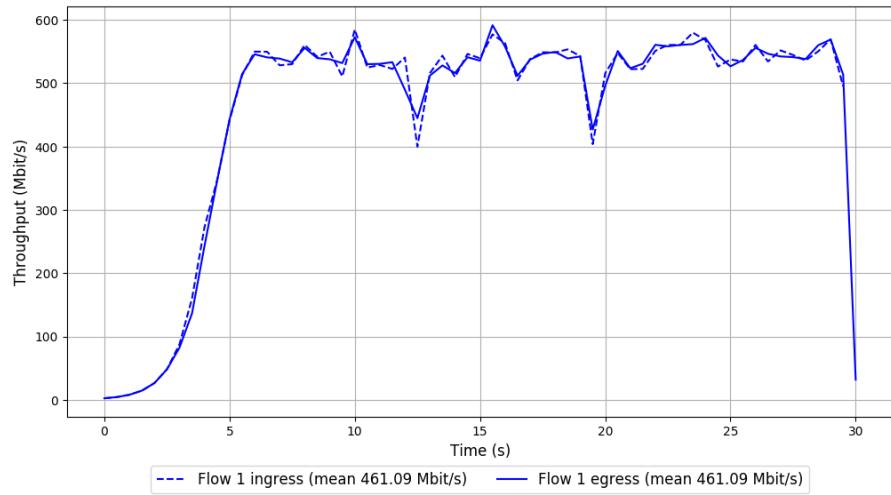
Run 7: Statistics of CalibratedKoho

Start at: 2017-09-18 05:35:54

End at: 2017-09-18 05:36:24

```
# Below is generated by plot.py at 2017-09-18 07:41:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 461.09 Mbit/s
95th percentile per-packet one-way delay: 70.232 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 461.09 Mbit/s
95th percentile per-packet one-way delay: 70.232 ms
Loss rate: 0.01%
```

Run 7: Report of CalibratedKoho — Data Link



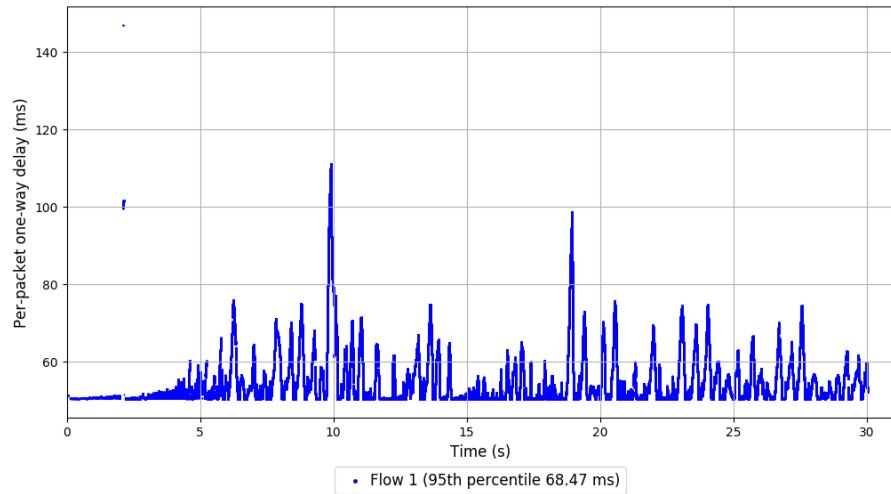
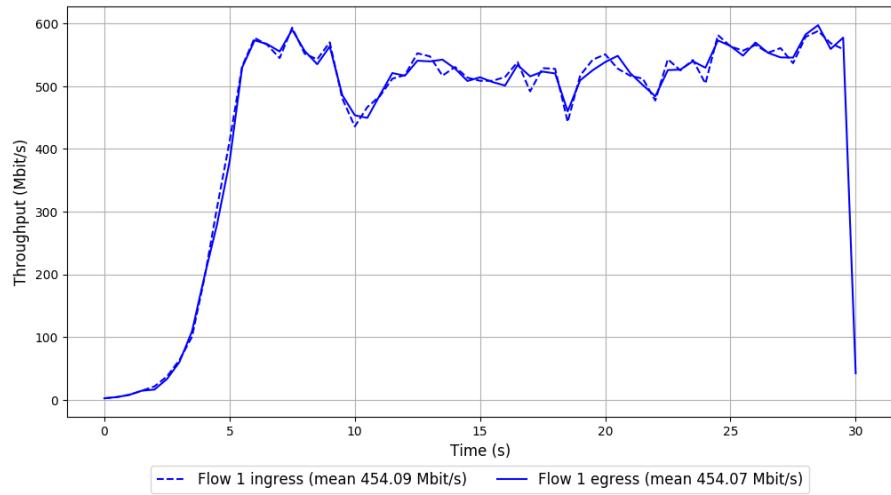
Run 8: Statistics of CalibratedKoho

Start at: 2017-09-18 05:47:04

End at: 2017-09-18 05:47:34

```
# Below is generated by plot.py at 2017-09-18 07:41:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 454.07 Mbit/s
95th percentile per-packet one-way delay: 68.473 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 454.07 Mbit/s
95th percentile per-packet one-way delay: 68.473 ms
Loss rate: 0.01%
```

Run 8: Report of CalibratedKoho — Data Link



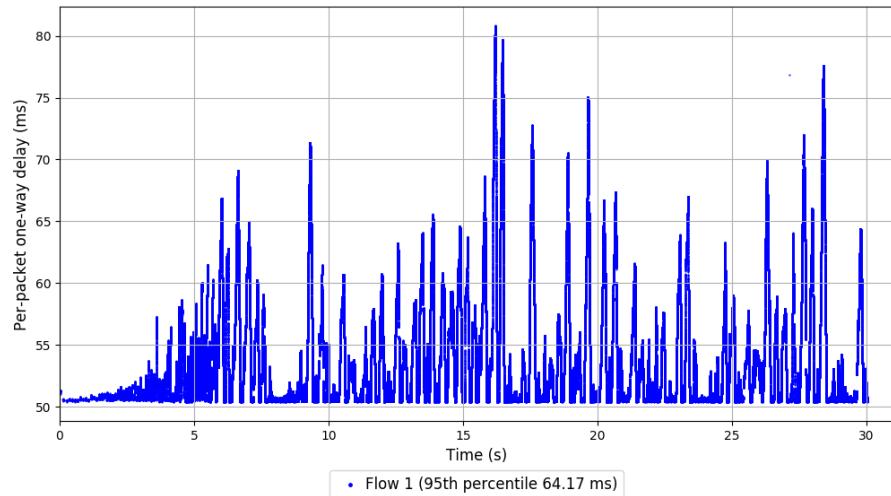
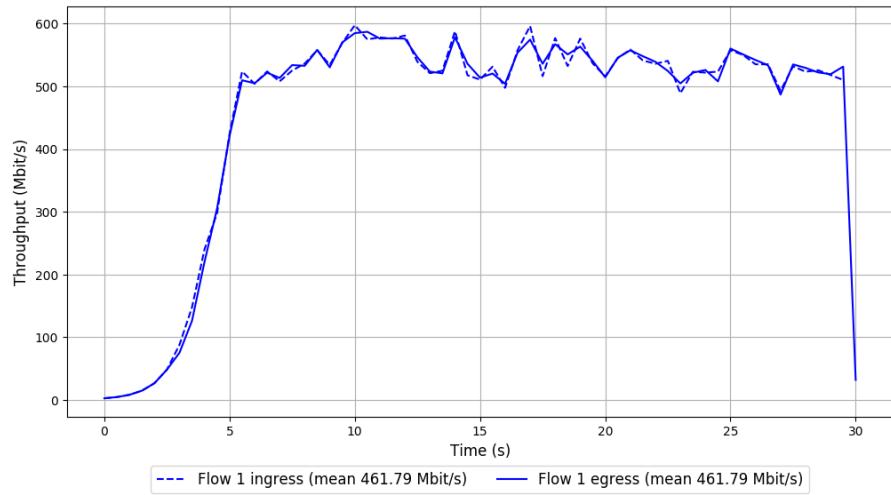
Run 9: Statistics of CalibratedKoho

Start at: 2017-09-18 05:58:24

End at: 2017-09-18 05:58:54

```
# Below is generated by plot.py at 2017-09-18 07:47:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 461.79 Mbit/s
95th percentile per-packet one-way delay: 64.174 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 461.79 Mbit/s
95th percentile per-packet one-way delay: 64.174 ms
Loss rate: 0.00%
```

Run 9: Report of CalibratedKoho — Data Link

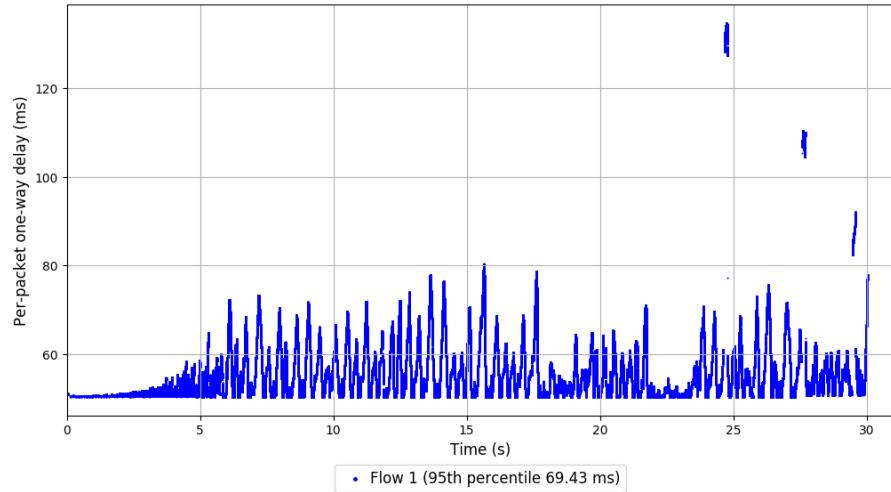
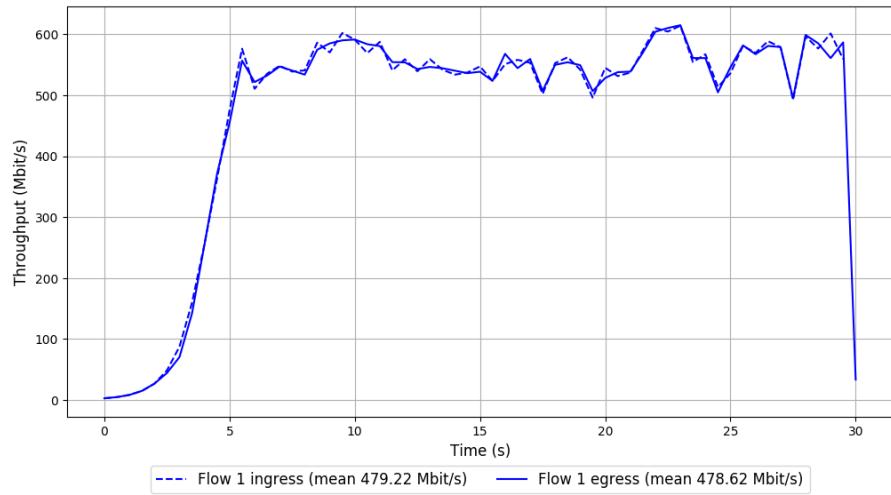


```
Run 10: Statistics of CalibratedKoho

Start at: 2017-09-18 06:09:41
End at: 2017-09-18 06:10:11

# Below is generated by plot.py at 2017-09-18 07:48:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 478.62 Mbit/s
95th percentile per-packet one-way delay: 69.426 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 478.62 Mbit/s
95th percentile per-packet one-way delay: 69.426 ms
Loss rate: 0.13%
```

Run 10: Report of CalibratedKoho — Data Link



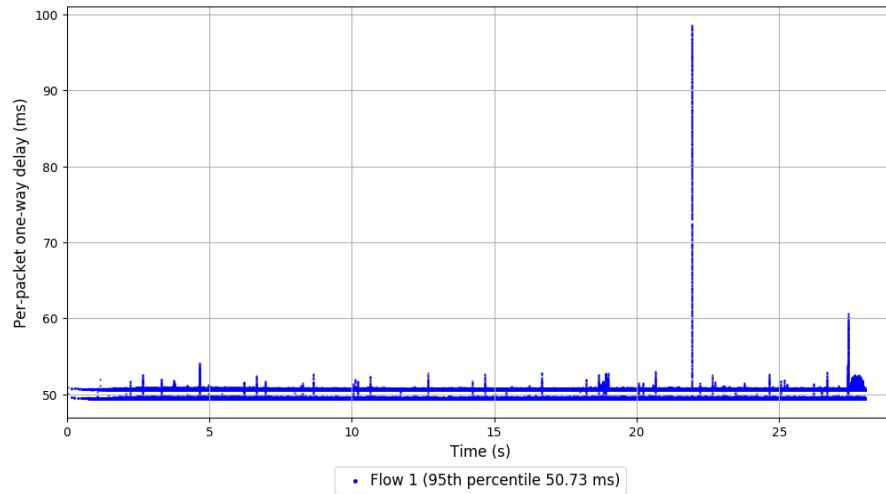
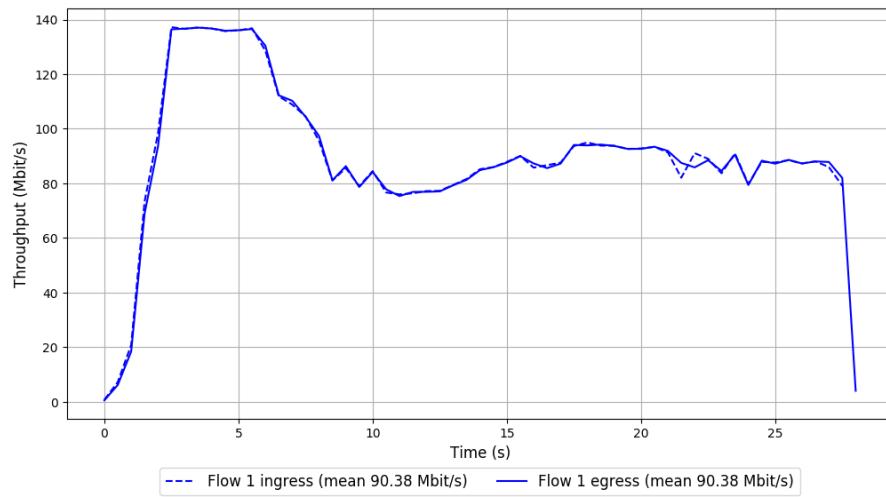
Run 1: Statistics of Copa

Start at: 2017-09-18 04:21:41

End at: 2017-09-18 04:22:11

```
# Below is generated by plot.py at 2017-09-18 07:48:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.38 Mbit/s
95th percentile per-packet one-way delay: 50.734 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.38 Mbit/s
95th percentile per-packet one-way delay: 50.734 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



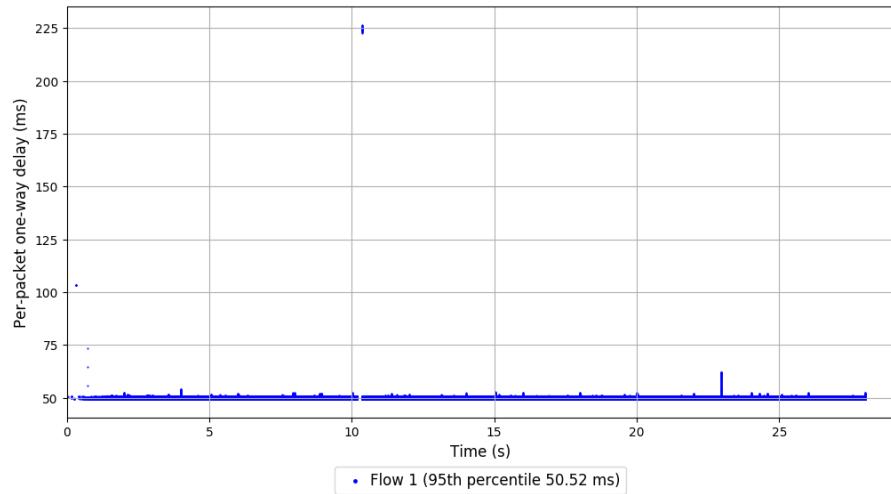
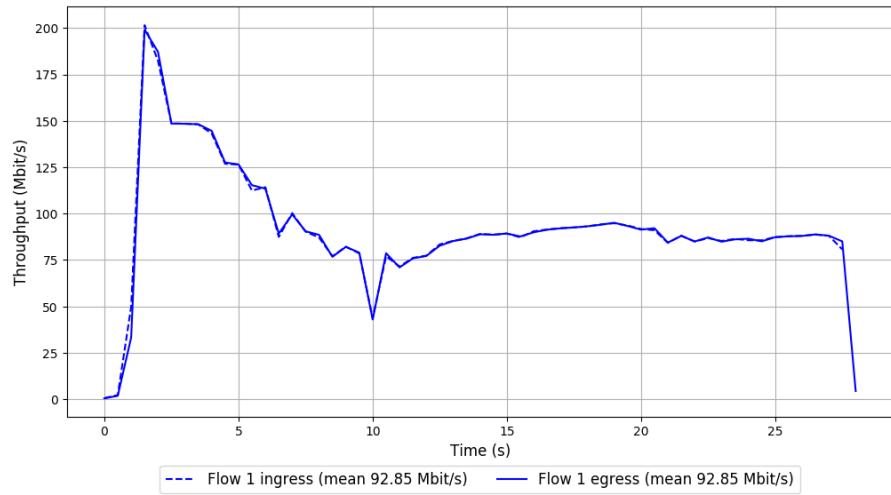
Run 2: Statistics of Copa

Start at: 2017-09-18 04:32:41

End at: 2017-09-18 04:33:11

```
# Below is generated by plot.py at 2017-09-18 07:48:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.85 Mbit/s
95th percentile per-packet one-way delay: 50.517 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 92.85 Mbit/s
95th percentile per-packet one-way delay: 50.517 ms
Loss rate: 0.00%
```

Run 2: Report of Copa — Data Link



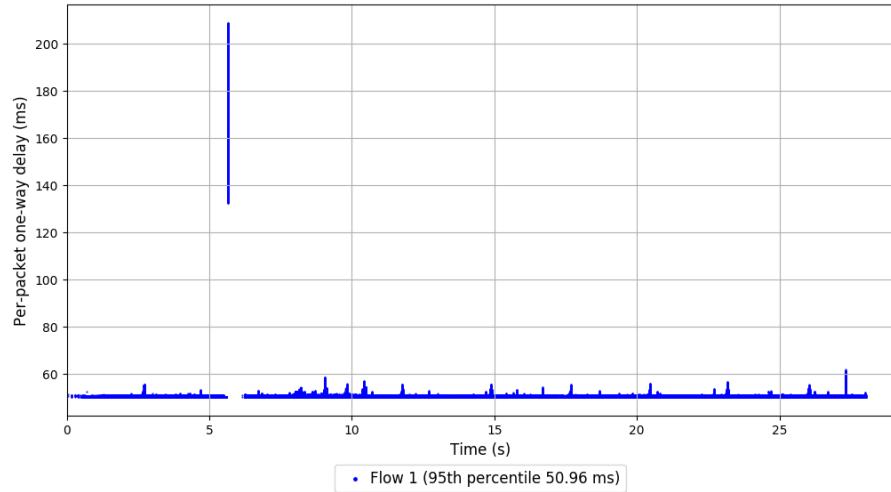
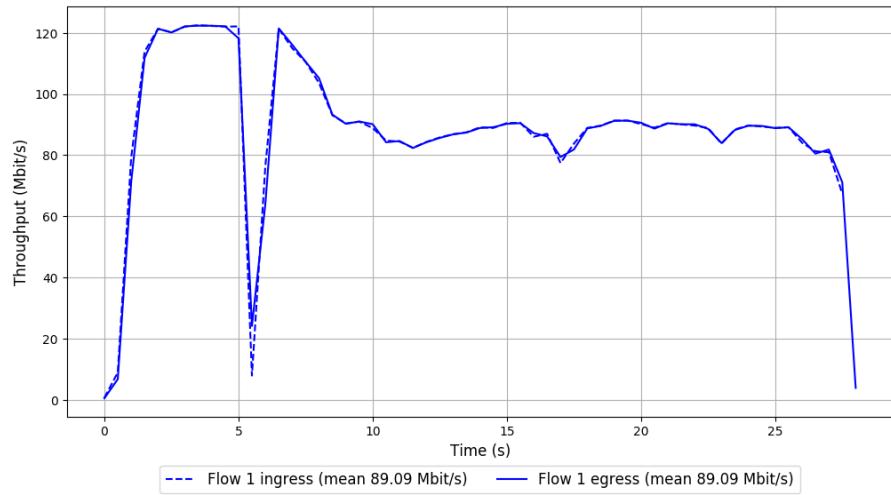
Run 3: Statistics of Copa

Start at: 2017-09-18 04:43:58

End at: 2017-09-18 04:44:29

```
# Below is generated by plot.py at 2017-09-18 07:48:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.09 Mbit/s
95th percentile per-packet one-way delay: 50.961 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.09 Mbit/s
95th percentile per-packet one-way delay: 50.961 ms
Loss rate: 0.00%
```

Run 3: Report of Copa — Data Link



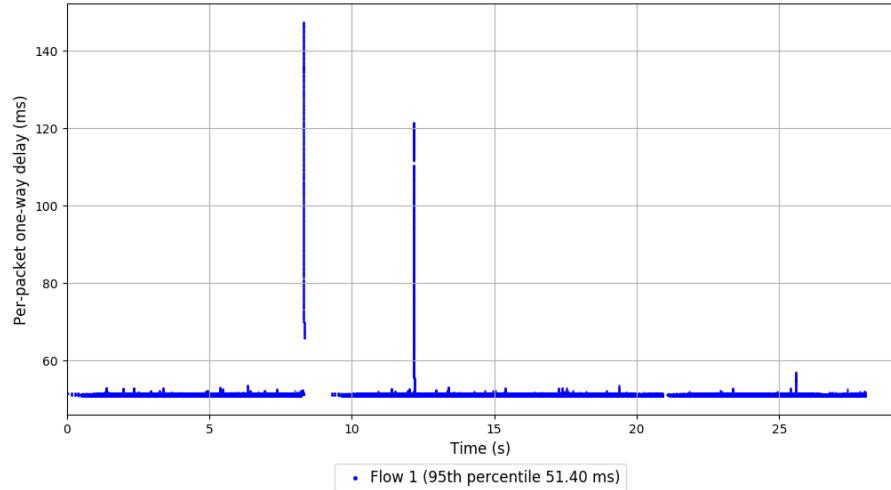
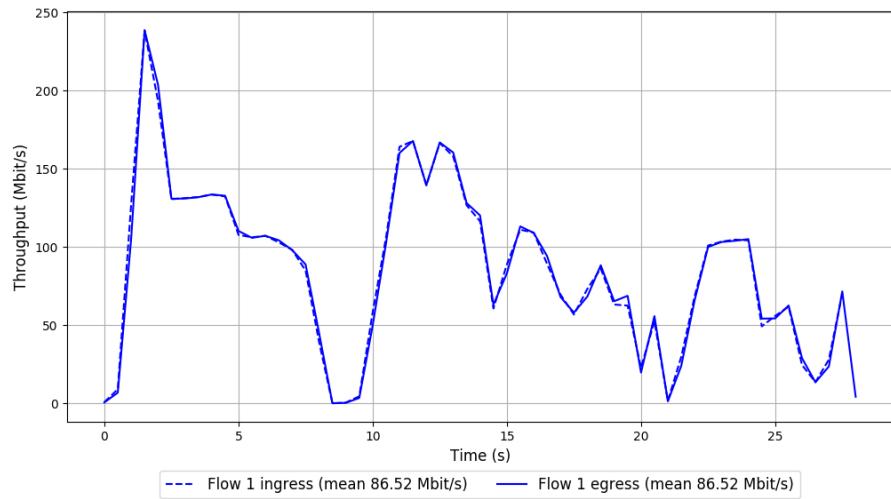
Run 4: Statistics of Copa

Start at: 2017-09-18 04:54:56

End at: 2017-09-18 04:55:26

```
# Below is generated by plot.py at 2017-09-18 07:48:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.52 Mbit/s
95th percentile per-packet one-way delay: 51.400 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 86.52 Mbit/s
95th percentile per-packet one-way delay: 51.400 ms
Loss rate: 0.00%
```

Run 4: Report of Copa — Data Link



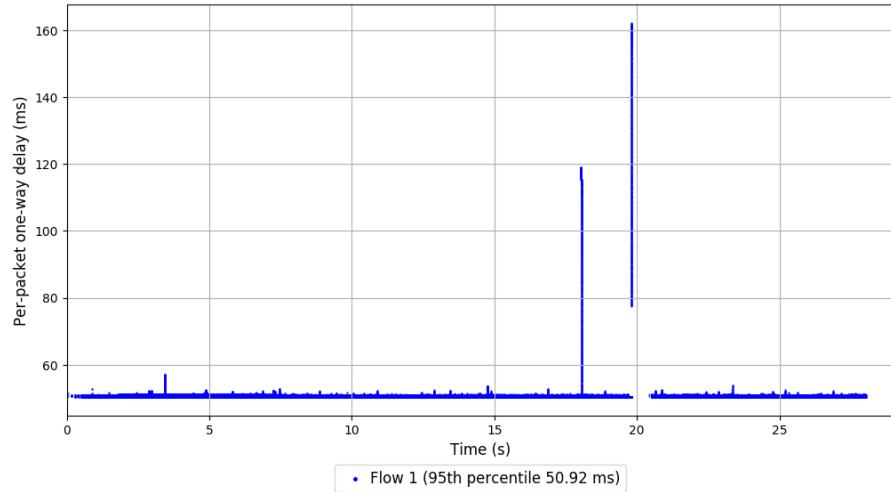
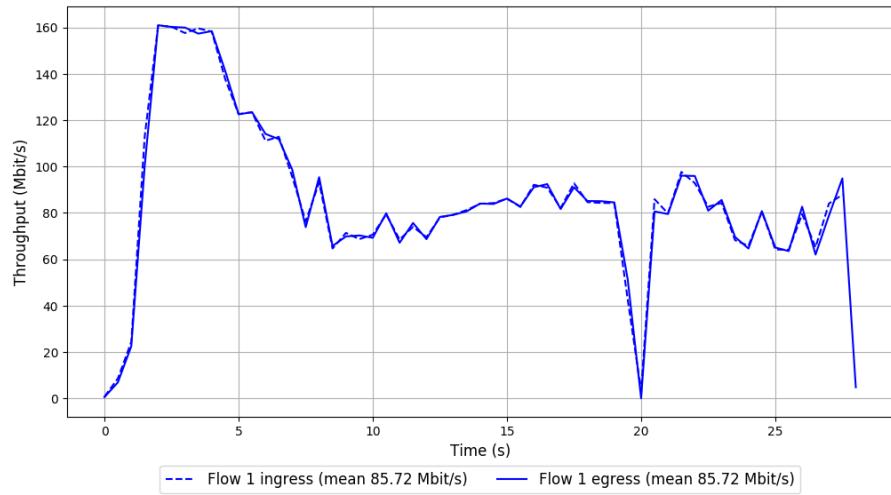
Run 5: Statistics of Copa

Start at: 2017-09-18 05:06:14

End at: 2017-09-18 05:06:44

```
# Below is generated by plot.py at 2017-09-18 07:48:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.72 Mbit/s
95th percentile per-packet one-way delay: 50.919 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.72 Mbit/s
95th percentile per-packet one-way delay: 50.919 ms
Loss rate: 0.00%
```

Run 5: Report of Copa — Data Link



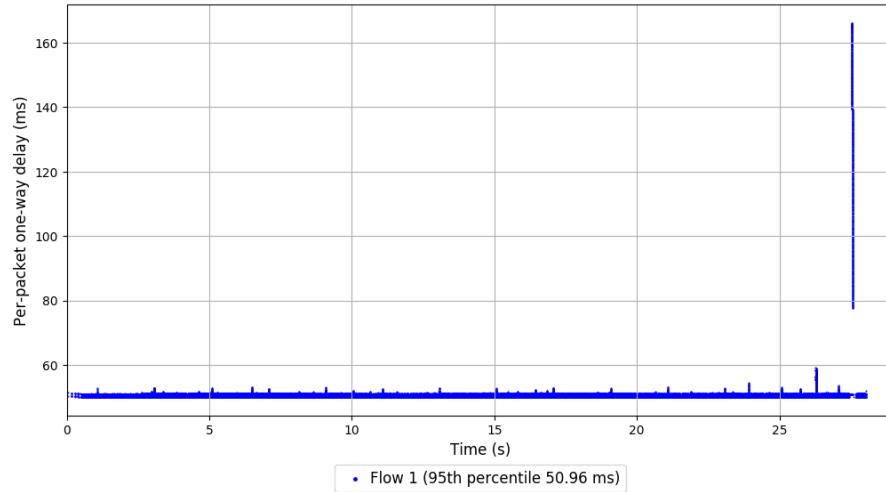
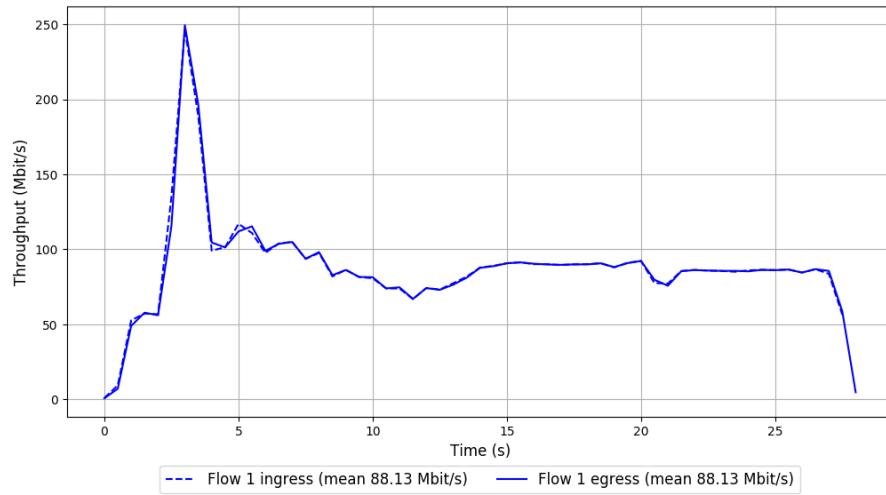
Run 6: Statistics of Copa

Start at: 2017-09-18 05:17:18

End at: 2017-09-18 05:17:48

```
# Below is generated by plot.py at 2017-09-18 07:48:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.13 Mbit/s
95th percentile per-packet one-way delay: 50.956 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 88.13 Mbit/s
95th percentile per-packet one-way delay: 50.956 ms
Loss rate: 0.00%
```

Run 6: Report of Copa — Data Link



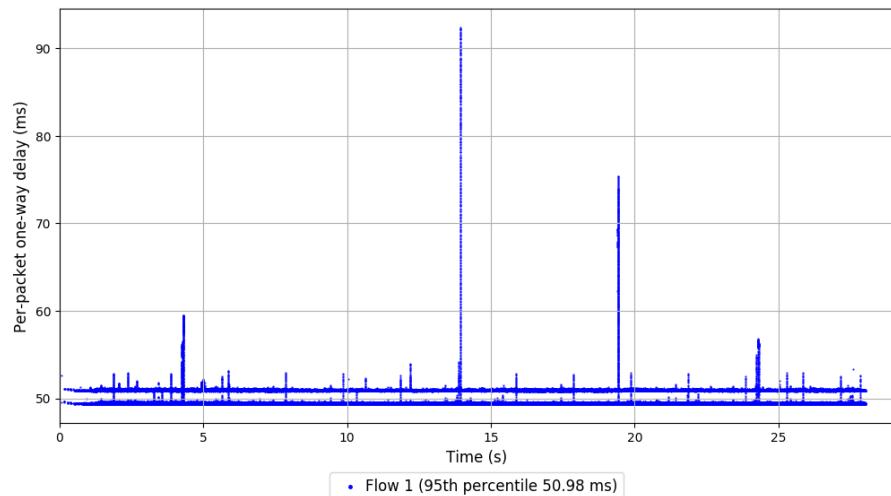
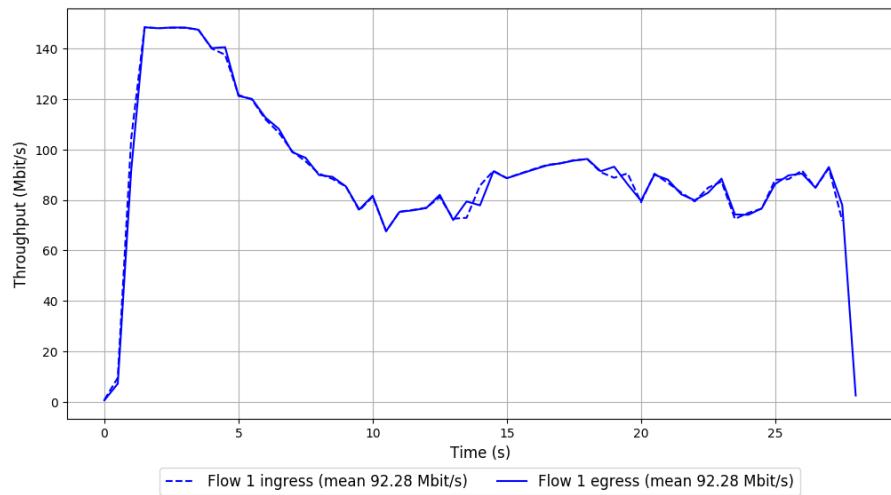
Run 7: Statistics of Copa

Start at: 2017-09-18 05:28:31

End at: 2017-09-18 05:29:01

```
# Below is generated by plot.py at 2017-09-18 07:48:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.28 Mbit/s
95th percentile per-packet one-way delay: 50.978 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 92.28 Mbit/s
95th percentile per-packet one-way delay: 50.978 ms
Loss rate: 0.00%
```

Run 7: Report of Copa — Data Link



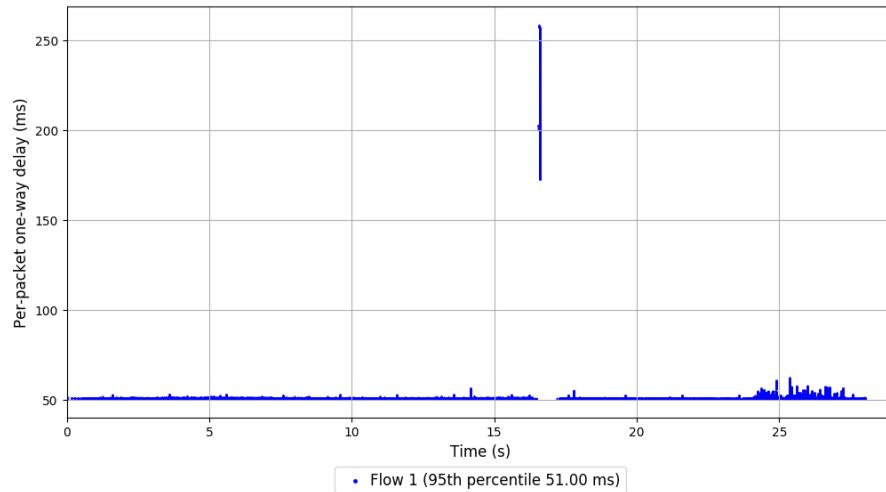
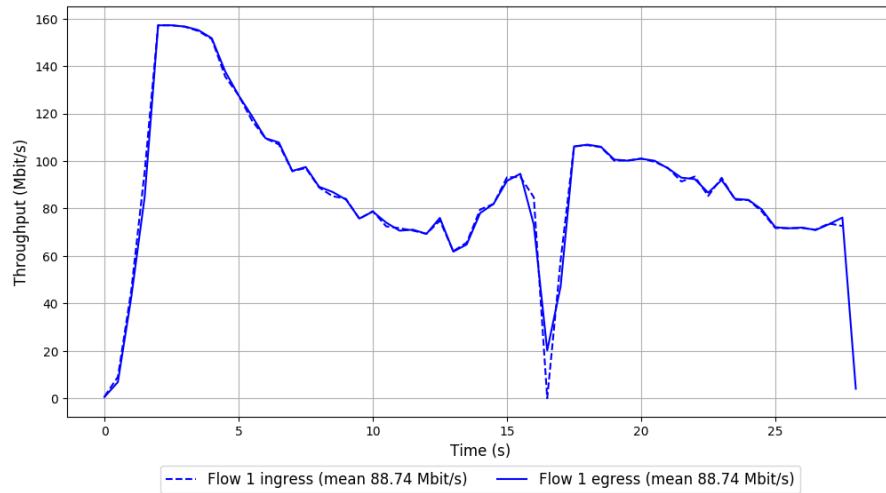
Run 8: Statistics of Copa

Start at: 2017-09-18 05:39:48

End at: 2017-09-18 05:40:18

```
# Below is generated by plot.py at 2017-09-18 07:48:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.74 Mbit/s
95th percentile per-packet one-way delay: 51.000 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 88.74 Mbit/s
95th percentile per-packet one-way delay: 51.000 ms
Loss rate: 0.00%
```

Run 8: Report of Copa — Data Link



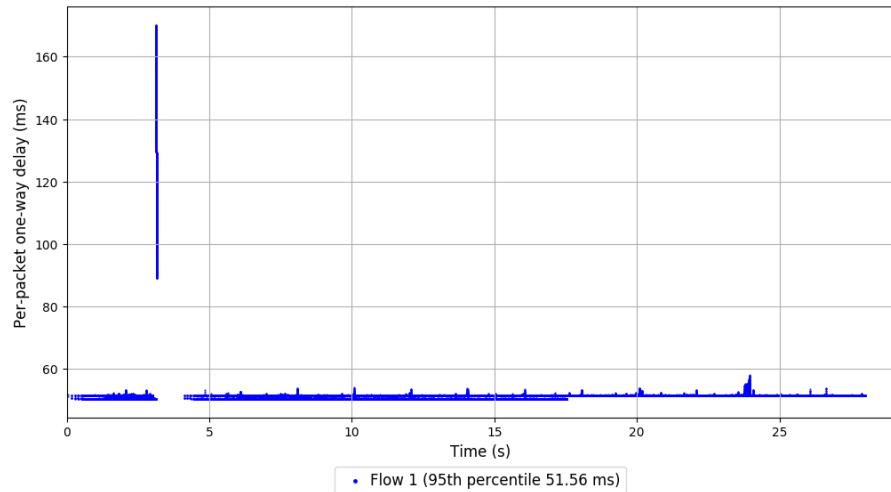
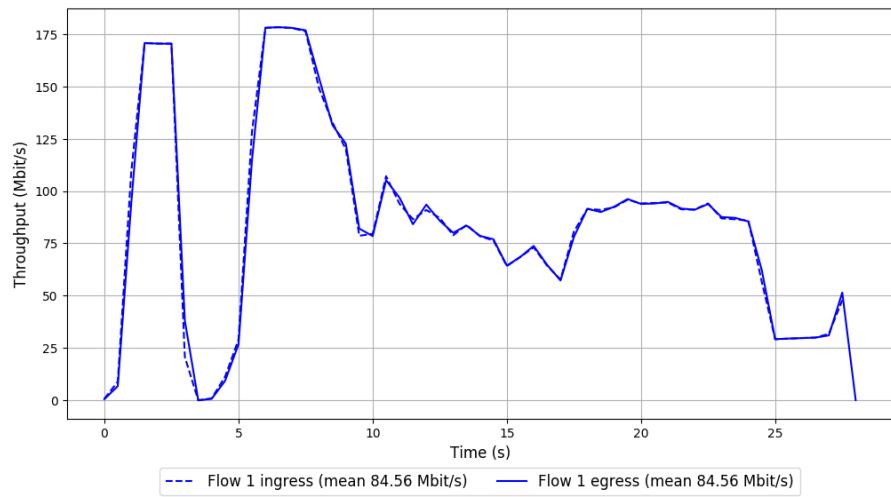
Run 9: Statistics of Copa

Start at: 2017-09-18 05:51:05

End at: 2017-09-18 05:51:35

```
# Below is generated by plot.py at 2017-09-18 07:48:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.56 Mbit/s
95th percentile per-packet one-way delay: 51.557 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.56 Mbit/s
95th percentile per-packet one-way delay: 51.557 ms
Loss rate: 0.00%
```

Run 9: Report of Copa — Data Link



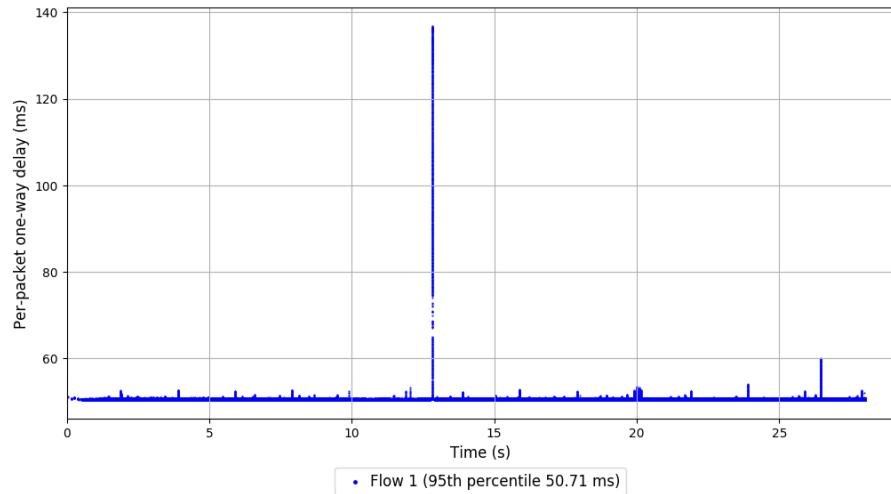
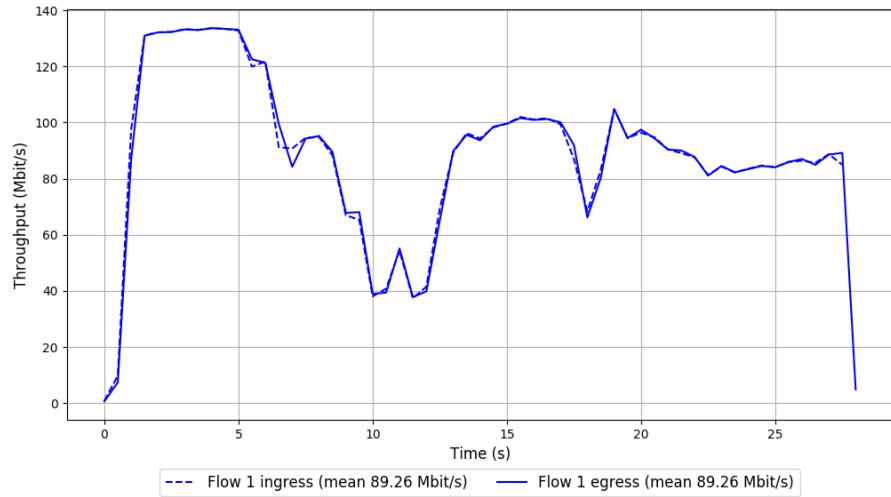
Run 10: Statistics of Copa

Start at: 2017-09-18 06:02:21

End at: 2017-09-18 06:02:51

```
# Below is generated by plot.py at 2017-09-18 07:48:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.26 Mbit/s
95th percentile per-packet one-way delay: 50.714 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.26 Mbit/s
95th percentile per-packet one-way delay: 50.714 ms
Loss rate: 0.00%
```

Run 10: Report of Copa — Data Link

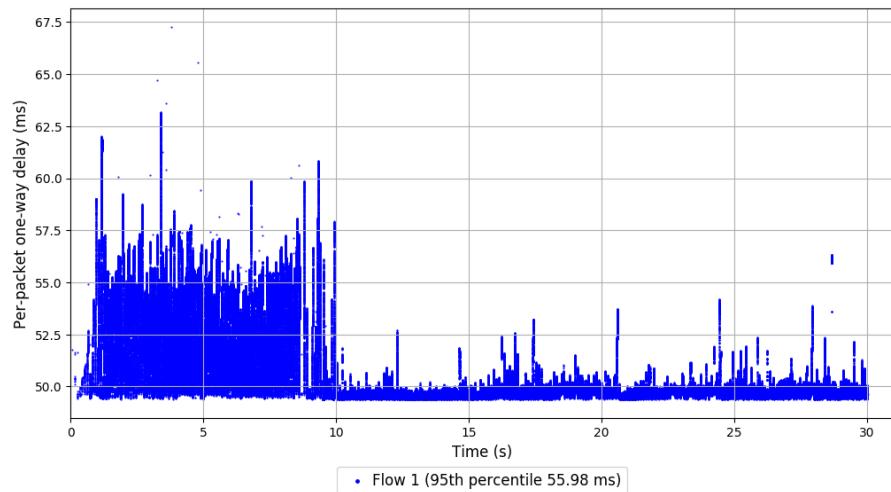
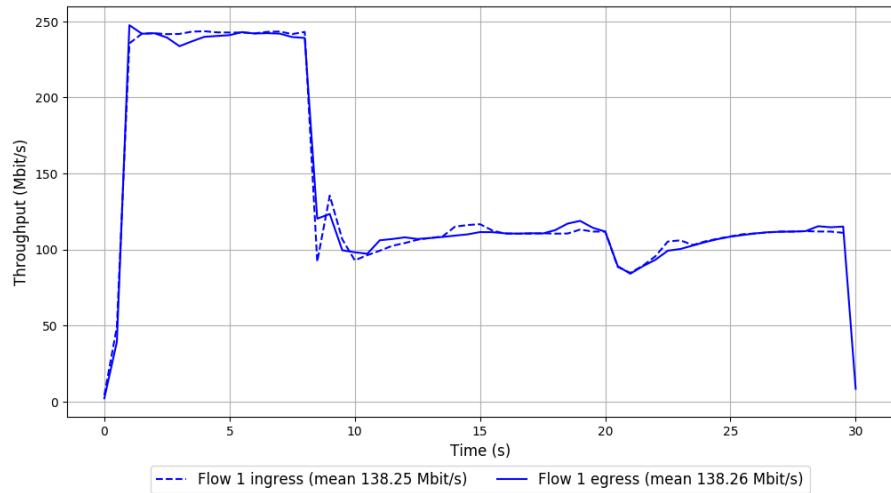


```
Run 1: Statistics of TCP Cubic

Start at: 2017-09-18 04:31:57
End at: 2017-09-18 04:32:27

# Below is generated by plot.py at 2017-09-18 07:48:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 138.26 Mbit/s
95th percentile per-packet one-way delay: 55.985 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 138.26 Mbit/s
95th percentile per-packet one-way delay: 55.985 ms
Loss rate: 0.00%
```

Run 1: Report of TCP Cubic — Data Link



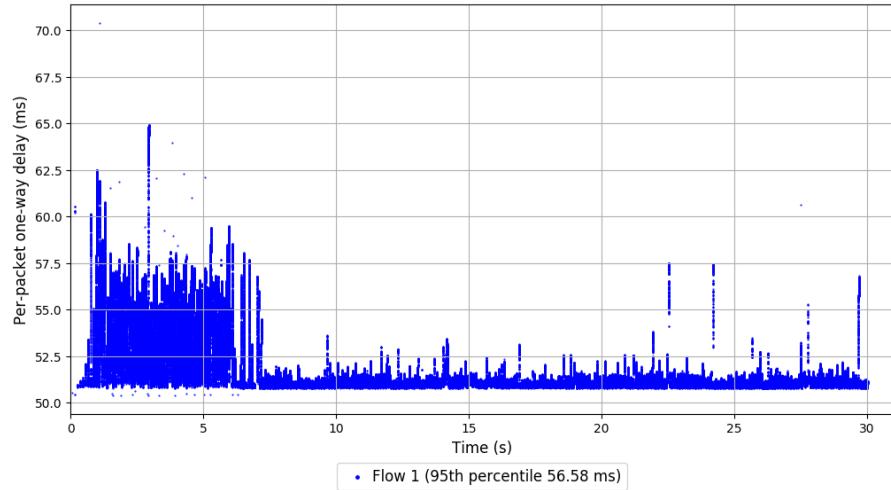
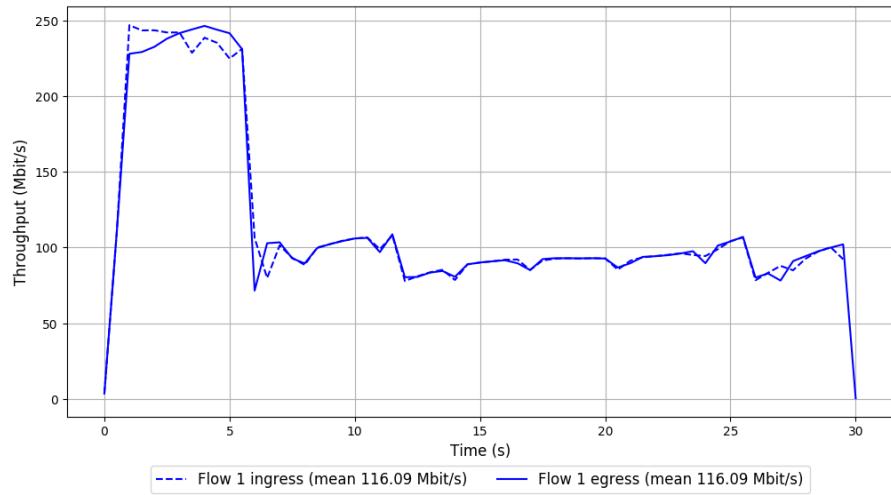
Run 2: Statistics of TCP Cubic

Start at: 2017-09-18 04:43:16

End at: 2017-09-18 04:43:46

```
# Below is generated by plot.py at 2017-09-18 07:48:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 116.09 Mbit/s
95th percentile per-packet one-way delay: 56.583 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 116.09 Mbit/s
95th percentile per-packet one-way delay: 56.583 ms
Loss rate: 0.00%
```

Run 2: Report of TCP Cubic — Data Link



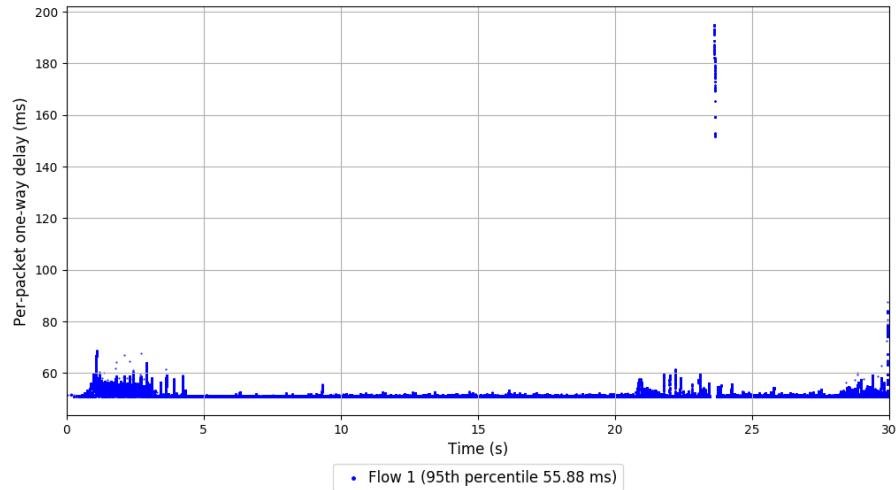
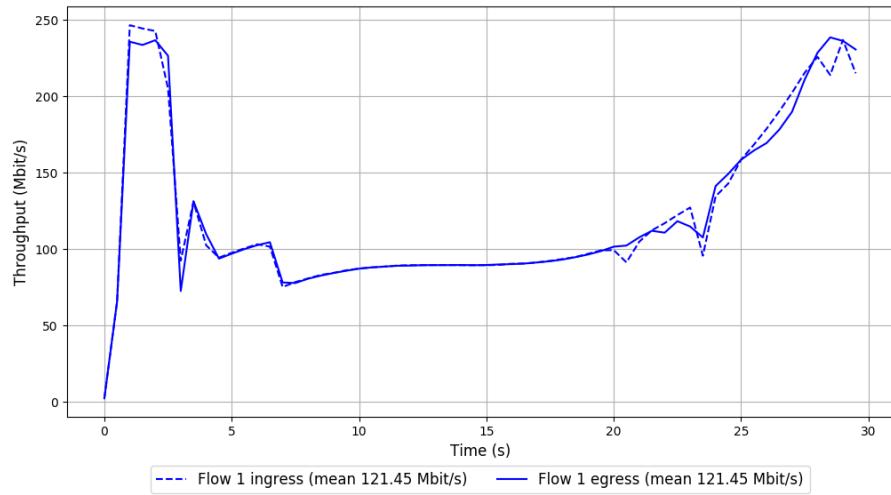
Run 3: Statistics of TCP Cubic

Start at: 2017-09-18 04:54:13

End at: 2017-09-18 04:54:43

```
# Below is generated by plot.py at 2017-09-18 07:48:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 121.45 Mbit/s
95th percentile per-packet one-way delay: 55.881 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 121.45 Mbit/s
95th percentile per-packet one-way delay: 55.881 ms
Loss rate: 0.00%
```

Run 3: Report of TCP Cubic — Data Link



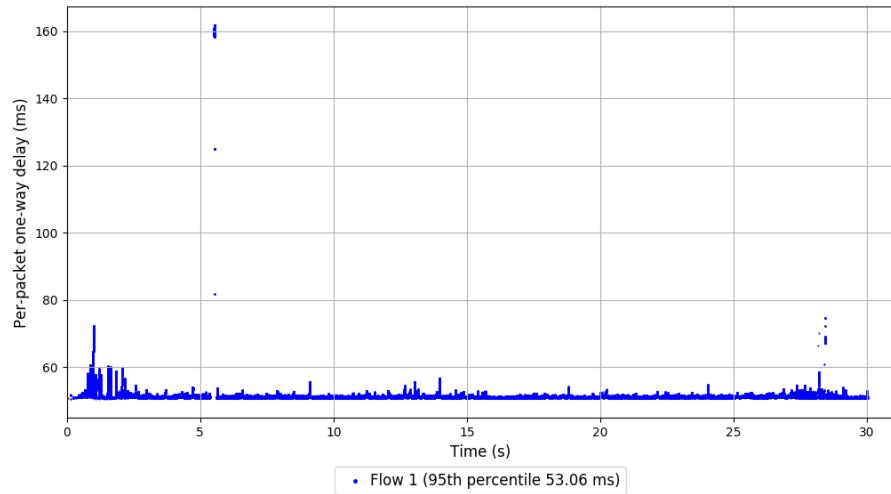
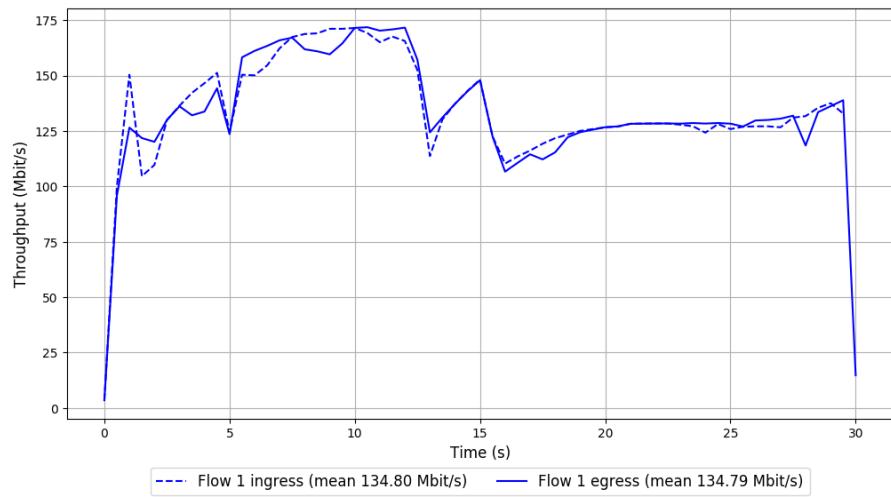
Run 4: Statistics of TCP Cubic

Start at: 2017-09-18 05:05:31

End at: 2017-09-18 05:06:01

```
# Below is generated by plot.py at 2017-09-18 07:48:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 134.79 Mbit/s
95th percentile per-packet one-way delay: 53.062 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 134.79 Mbit/s
95th percentile per-packet one-way delay: 53.062 ms
Loss rate: 0.01%
```

Run 4: Report of TCP Cubic — Data Link



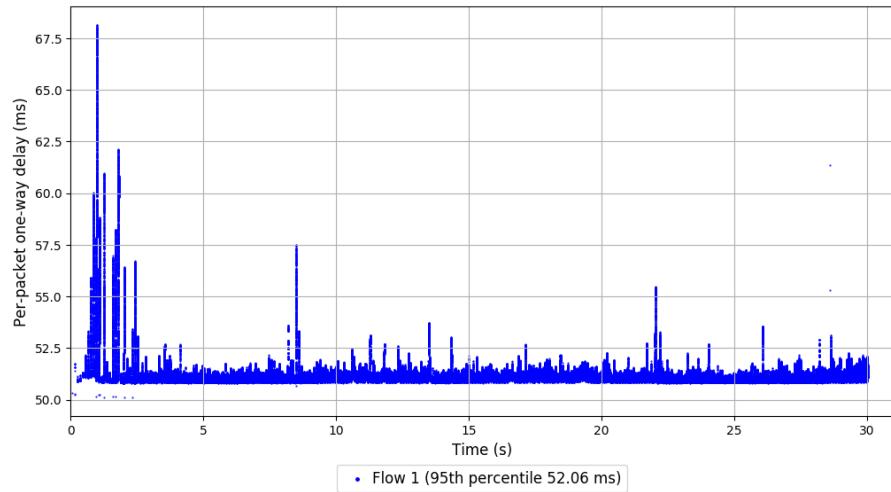
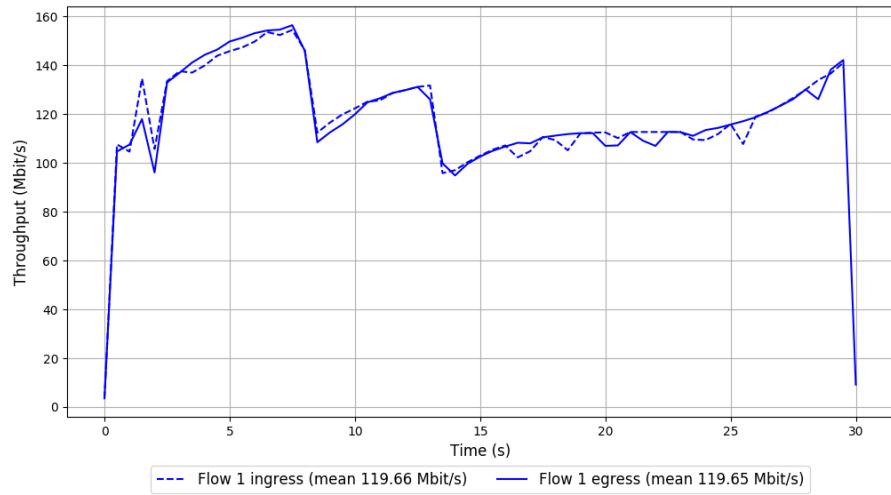
Run 5: Statistics of TCP Cubic

Start at: 2017-09-18 05:16:35

End at: 2017-09-18 05:17:05

```
# Below is generated by plot.py at 2017-09-18 07:48:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 119.65 Mbit/s
95th percentile per-packet one-way delay: 52.060 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 119.65 Mbit/s
95th percentile per-packet one-way delay: 52.060 ms
Loss rate: 0.00%
```

Run 5: Report of TCP Cubic — Data Link



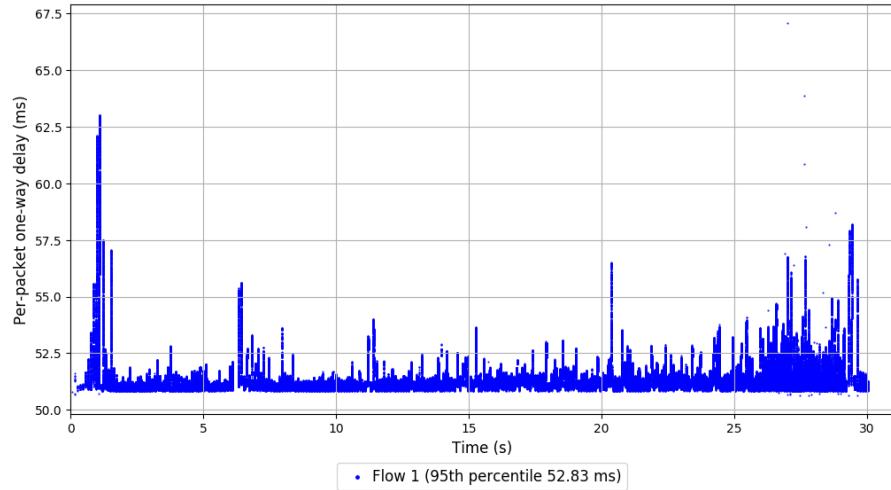
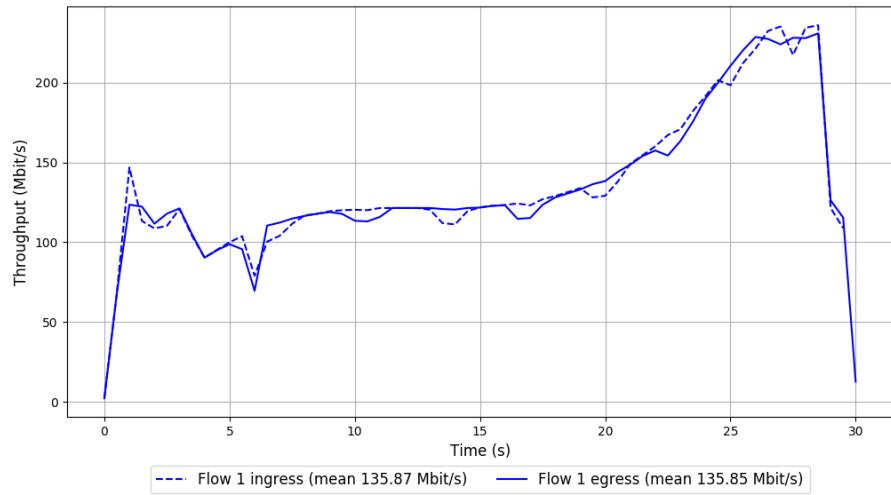
Run 6: Statistics of TCP Cubic

Start at: 2017-09-18 05:27:47

End at: 2017-09-18 05:28:17

```
# Below is generated by plot.py at 2017-09-18 07:48:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 135.85 Mbit/s
95th percentile per-packet one-way delay: 52.831 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 135.85 Mbit/s
95th percentile per-packet one-way delay: 52.831 ms
Loss rate: 0.02%
```

Run 6: Report of TCP Cubic — Data Link



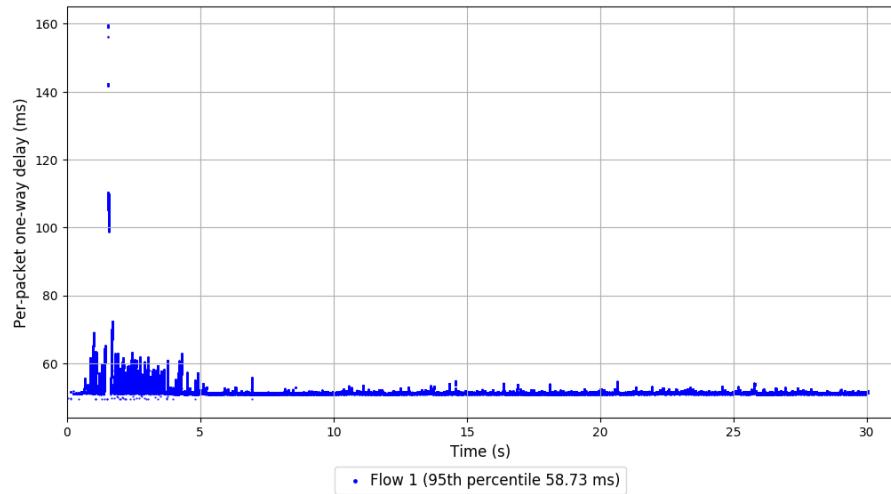
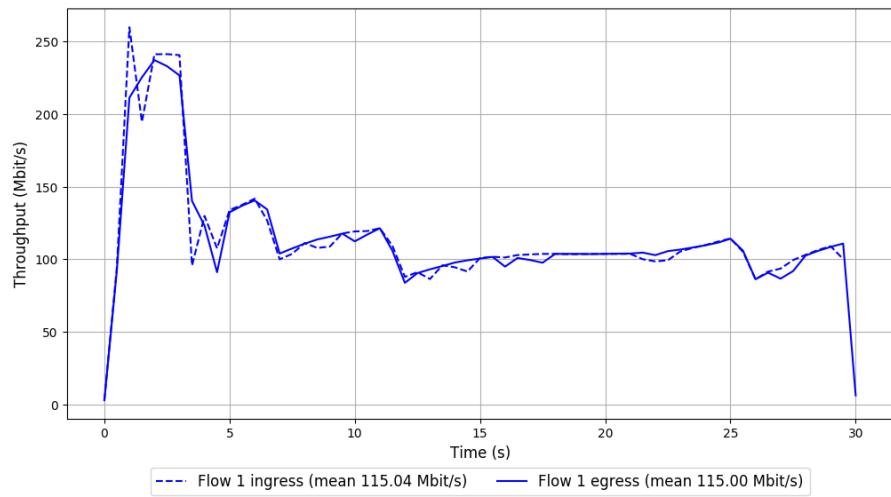
Run 7: Statistics of TCP Cubic

Start at: 2017-09-18 05:39:05

End at: 2017-09-18 05:39:35

```
# Below is generated by plot.py at 2017-09-18 07:48:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 115.00 Mbit/s
95th percentile per-packet one-way delay: 58.730 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 115.00 Mbit/s
95th percentile per-packet one-way delay: 58.730 ms
Loss rate: 0.03%
```

Run 7: Report of TCP Cubic — Data Link



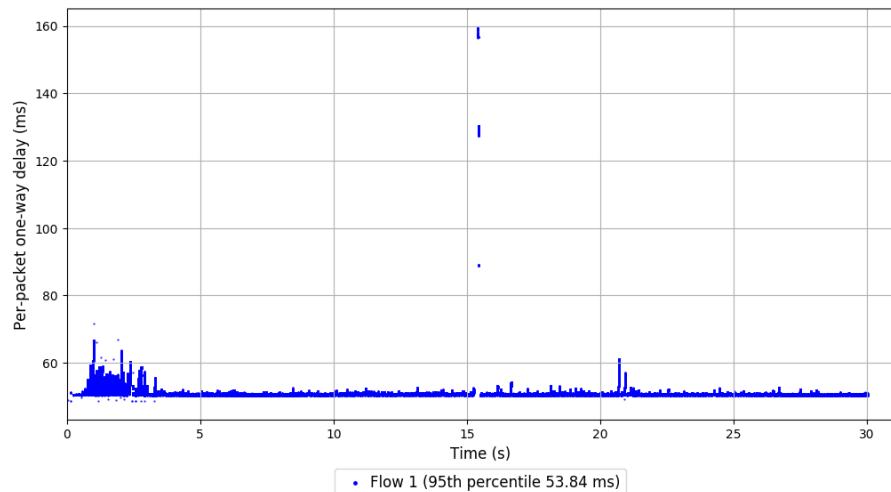
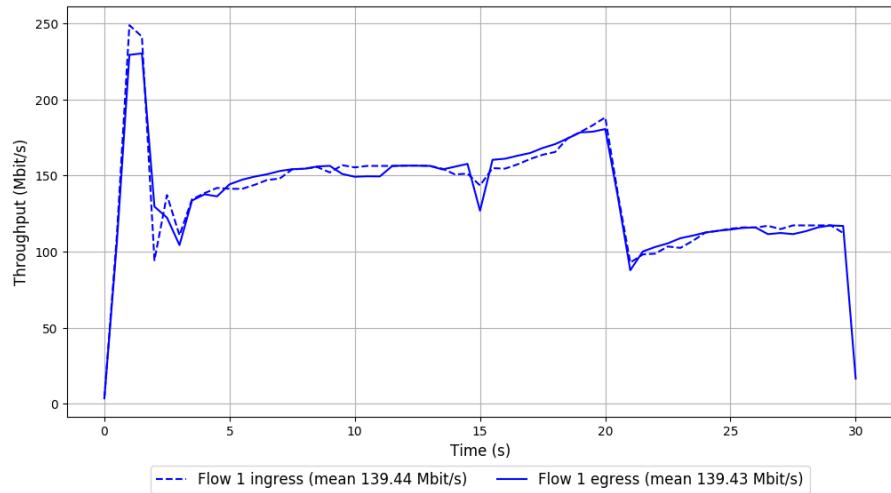
```
Run 8: Statistics of TCP Cubic
```

```
Start at: 2017-09-18 05:50:21
```

```
End at: 2017-09-18 05:50:51
```

```
# Below is generated by plot.py at 2017-09-18 07:49:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 139.43 Mbit/s
95th percentile per-packet one-way delay: 53.838 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 139.43 Mbit/s
95th percentile per-packet one-way delay: 53.838 ms
Loss rate: 0.00%
```

Run 8: Report of TCP Cubic — Data Link



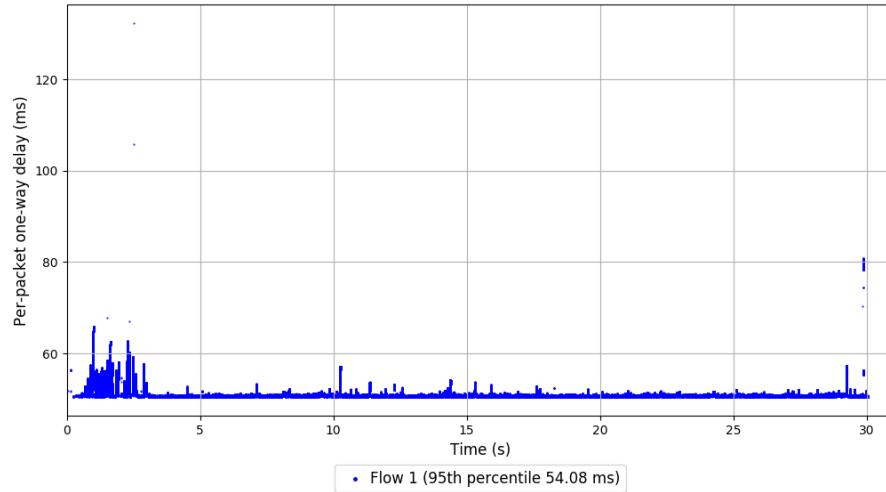
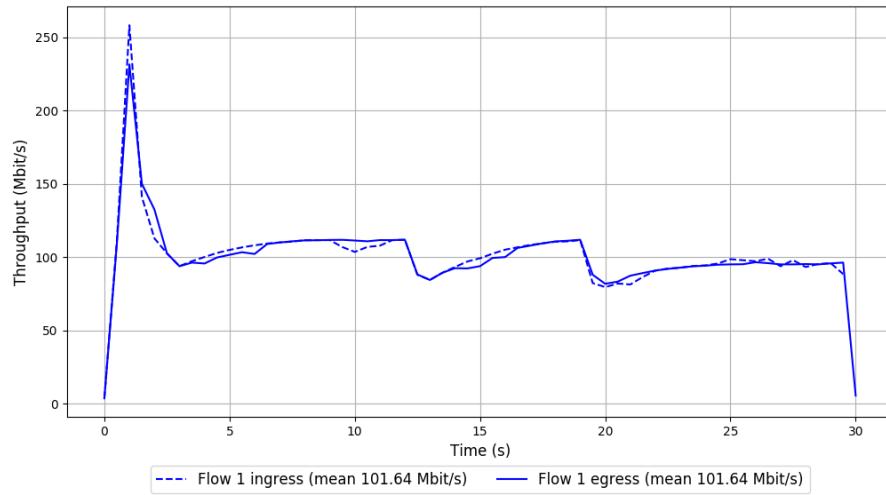
Run 9: Statistics of TCP Cubic

Start at: 2017-09-18 06:01:39

End at: 2017-09-18 06:02:09

```
# Below is generated by plot.py at 2017-09-18 07:49:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 101.64 Mbit/s
95th percentile per-packet one-way delay: 54.081 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 101.64 Mbit/s
95th percentile per-packet one-way delay: 54.081 ms
Loss rate: 0.00%
```

Run 9: Report of TCP Cubic — Data Link



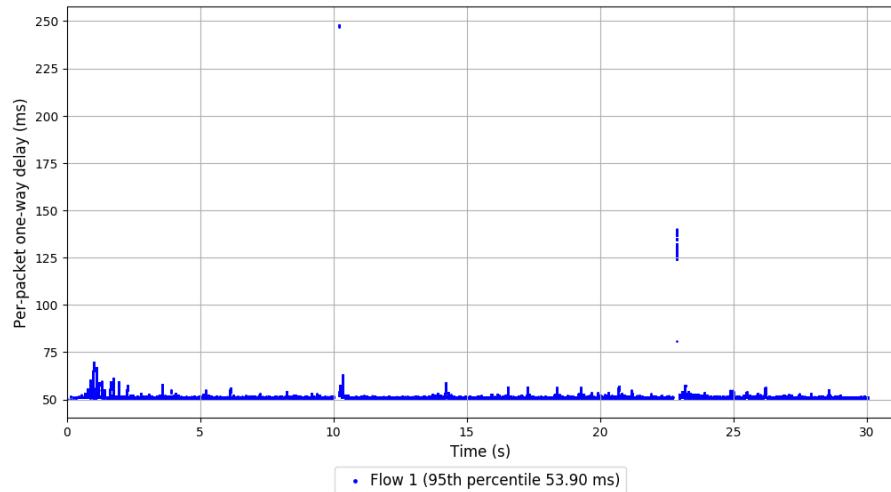
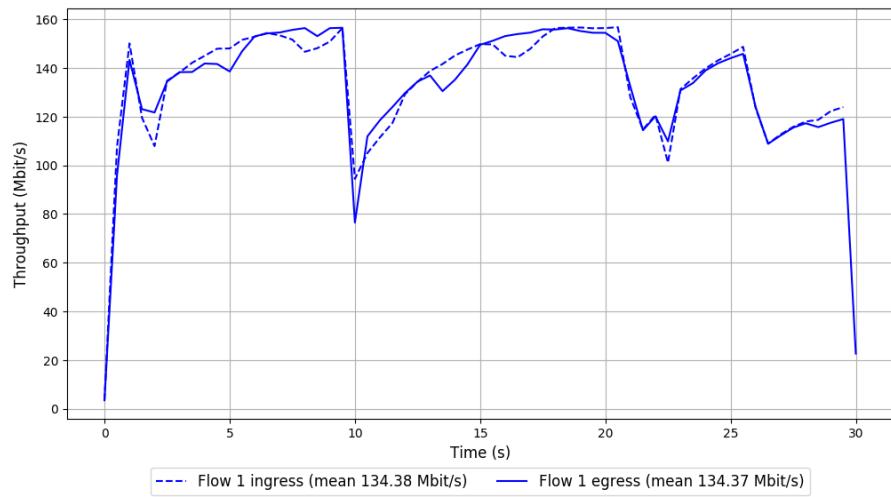
Run 10: Statistics of TCP Cubic

Start at: 2017-09-18 06:12:43

End at: 2017-09-18 06:13:13

```
# Below is generated by plot.py at 2017-09-18 07:49:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 134.37 Mbit/s
95th percentile per-packet one-way delay: 53.895 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 134.37 Mbit/s
95th percentile per-packet one-way delay: 53.895 ms
Loss rate: 0.01%
```

Run 10: Report of TCP Cubic — Data Link



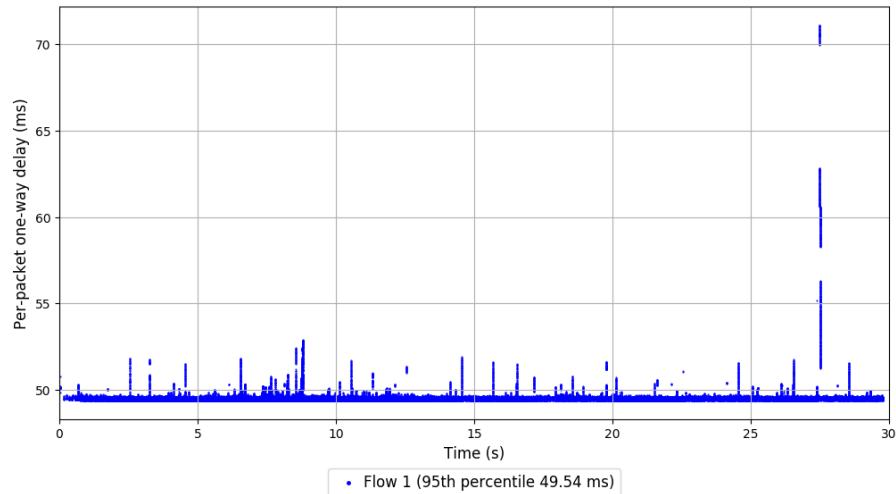
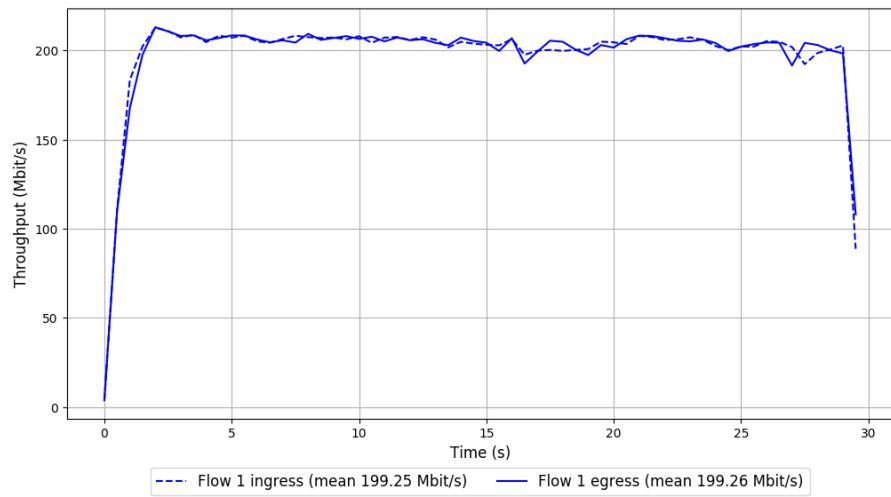
Run 1: Statistics of Indigo

Start at: 2017-09-18 04:24:38

End at: 2017-09-18 04:25:08

```
# Below is generated by plot.py at 2017-09-18 07:51:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 199.26 Mbit/s
95th percentile per-packet one-way delay: 49.543 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 199.26 Mbit/s
95th percentile per-packet one-way delay: 49.543 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



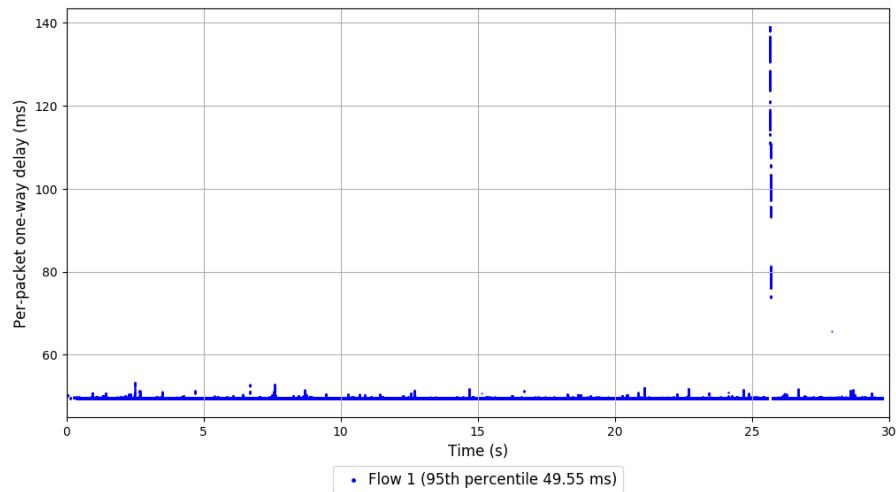
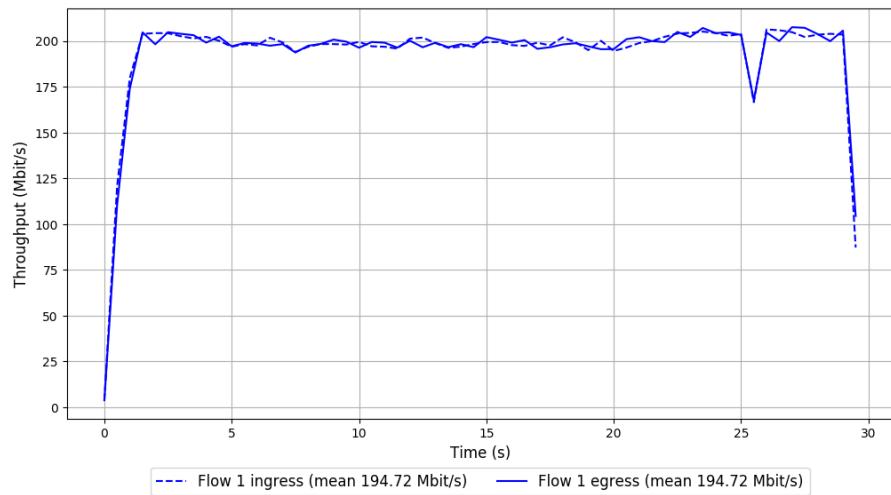
Run 2: Statistics of Indigo

Start at: 2017-09-18 04:35:40

End at: 2017-09-18 04:36:10

```
# Below is generated by plot.py at 2017-09-18 07:51:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 194.72 Mbit/s
95th percentile per-packet one-way delay: 49.549 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 194.72 Mbit/s
95th percentile per-packet one-way delay: 49.549 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link



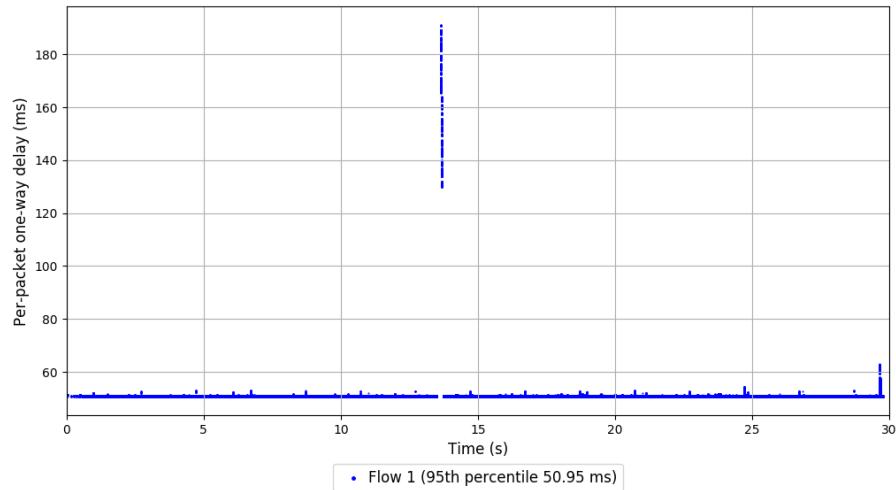
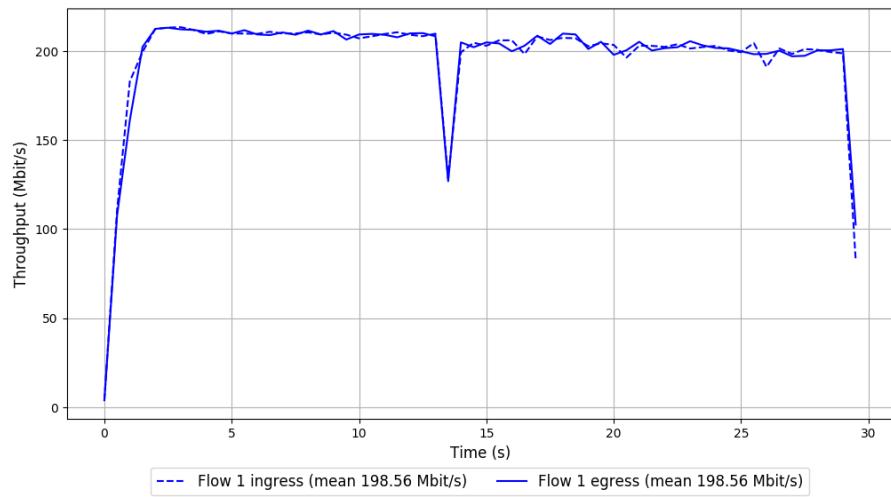
Run 3: Statistics of Indigo

Start at: 2017-09-18 04:46:52

End at: 2017-09-18 04:47:22

```
# Below is generated by plot.py at 2017-09-18 07:51:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 198.56 Mbit/s
95th percentile per-packet one-way delay: 50.952 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 198.56 Mbit/s
95th percentile per-packet one-way delay: 50.952 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo — Data Link



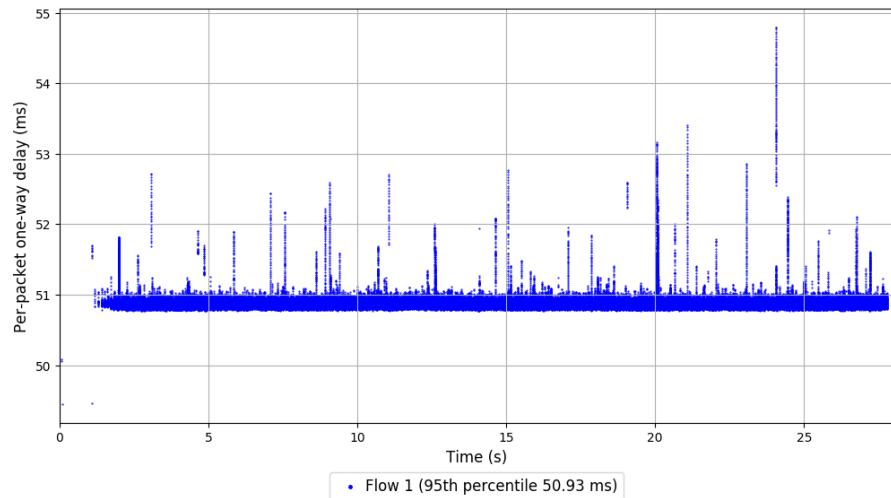
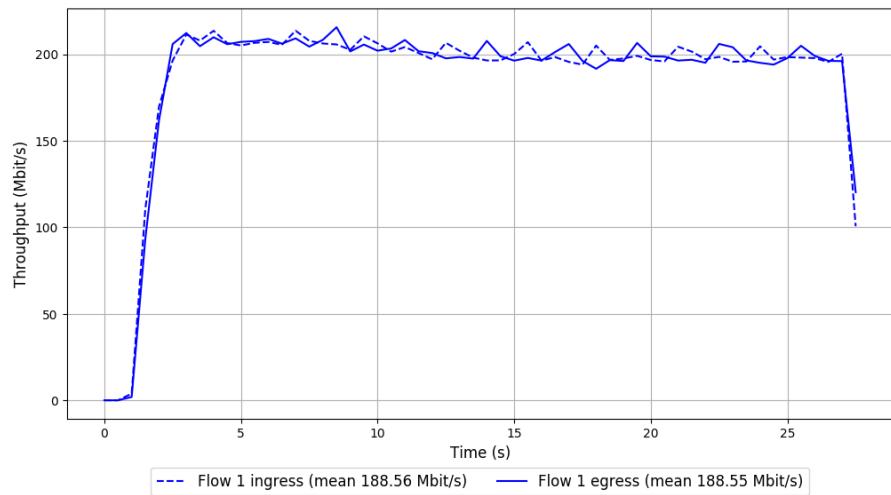
Run 4: Statistics of Indigo

Start at: 2017-09-18 04:57:54

End at: 2017-09-18 04:58:24

```
# Below is generated by plot.py at 2017-09-18 07:51:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.55 Mbit/s
95th percentile per-packet one-way delay: 50.933 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 188.55 Mbit/s
95th percentile per-packet one-way delay: 50.933 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo — Data Link



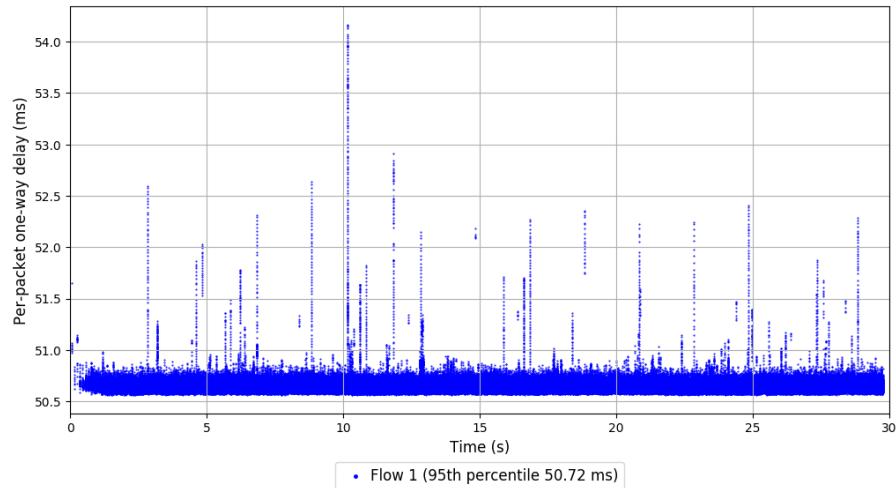
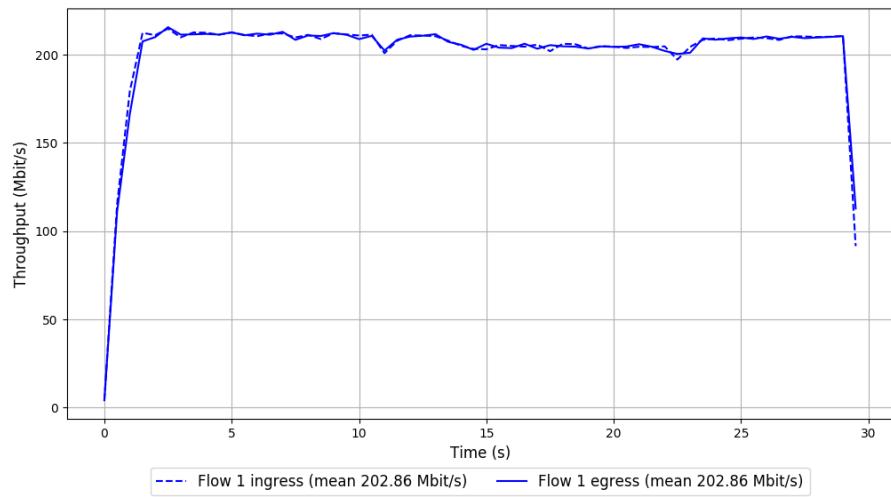
Run 5: Statistics of Indigo

Start at: 2017-09-18 05:09:08

End at: 2017-09-18 05:09:38

```
# Below is generated by plot.py at 2017-09-18 07:52:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 202.86 Mbit/s
95th percentile per-packet one-way delay: 50.719 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 202.86 Mbit/s
95th percentile per-packet one-way delay: 50.719 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo — Data Link



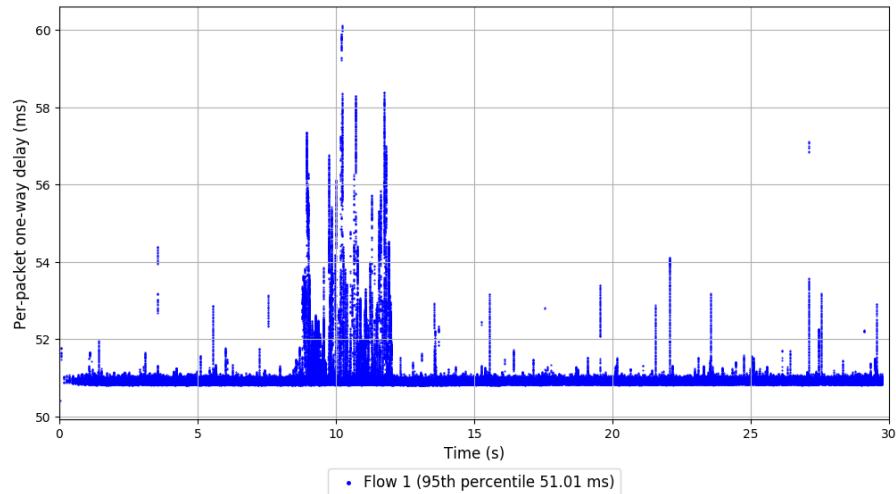
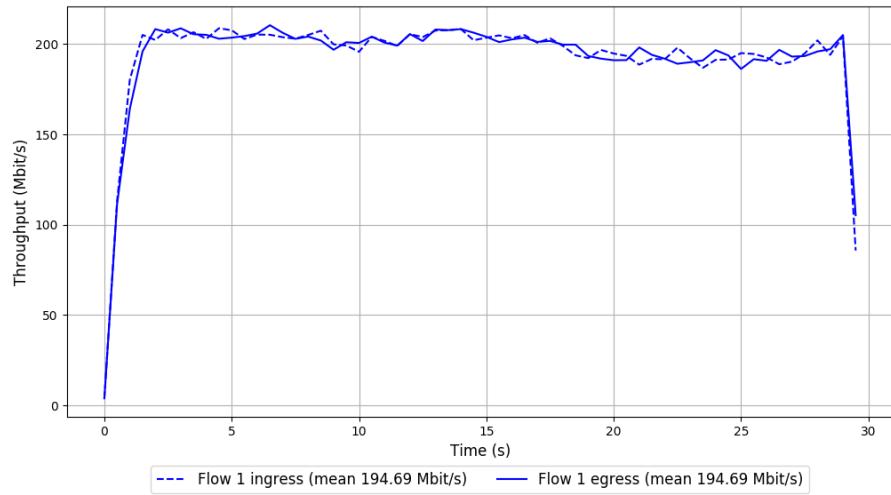
Run 6: Statistics of Indigo

Start at: 2017-09-18 05:20:13

End at: 2017-09-18 05:20:43

```
# Below is generated by plot.py at 2017-09-18 07:52:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 194.69 Mbit/s
95th percentile per-packet one-way delay: 51.013 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 194.69 Mbit/s
95th percentile per-packet one-way delay: 51.013 ms
Loss rate: 0.00%
```

Run 6: Report of Indigo — Data Link



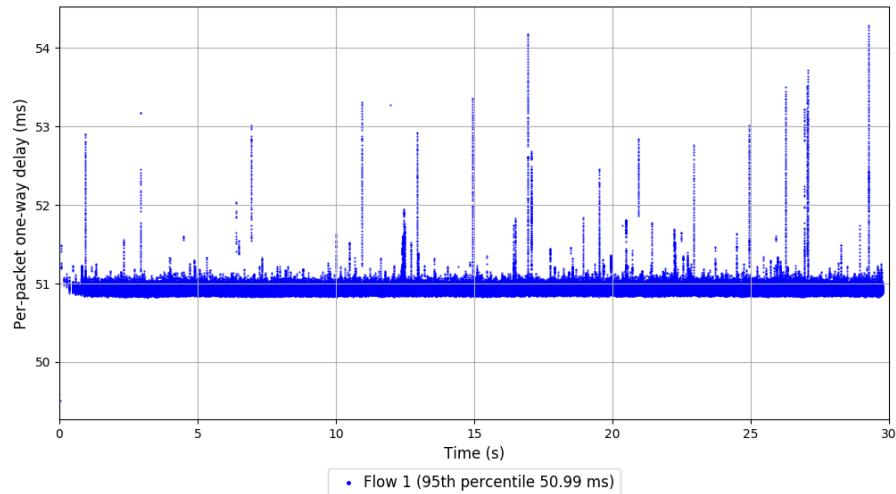
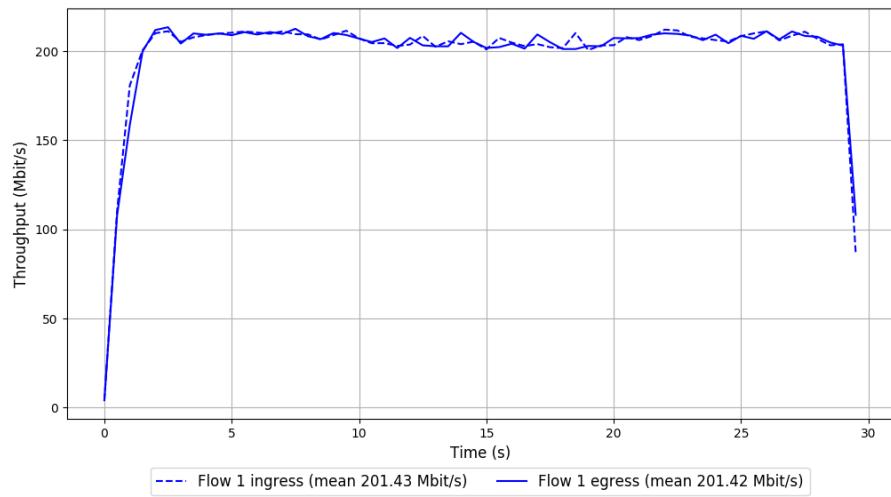
Run 7: Statistics of Indigo

Start at: 2017-09-18 05:31:30

End at: 2017-09-18 05:32:00

```
# Below is generated by plot.py at 2017-09-18 07:53:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 201.42 Mbit/s
95th percentile per-packet one-way delay: 50.994 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 201.42 Mbit/s
95th percentile per-packet one-way delay: 50.994 ms
Loss rate: 0.00%
```

Run 7: Report of Indigo — Data Link



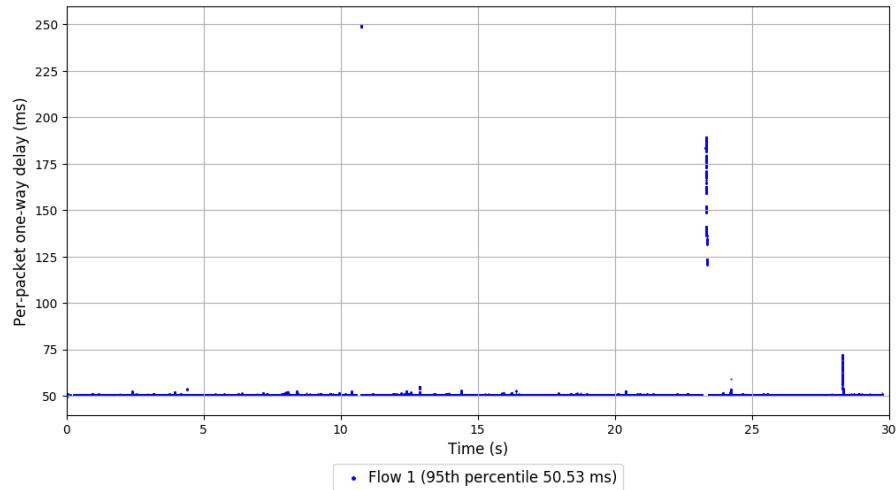
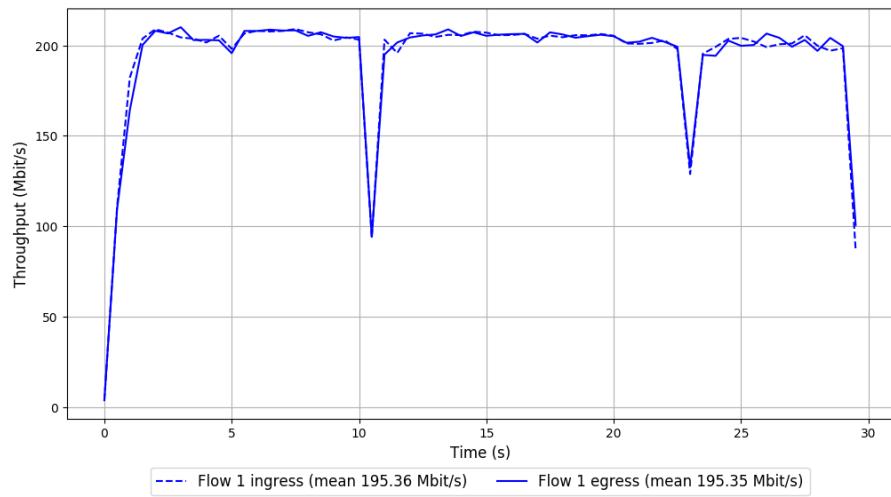
Run 8: Statistics of Indigo

Start at: 2017-09-18 05:42:43

End at: 2017-09-18 05:43:13

```
# Below is generated by plot.py at 2017-09-18 07:53:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 195.35 Mbit/s
95th percentile per-packet one-way delay: 50.531 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 195.35 Mbit/s
95th percentile per-packet one-way delay: 50.531 ms
Loss rate: 0.00%
```

Run 8: Report of Indigo — Data Link



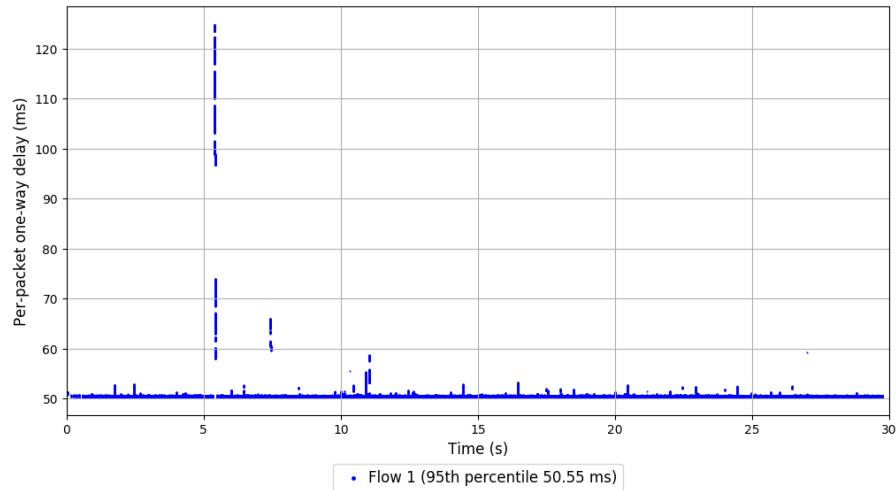
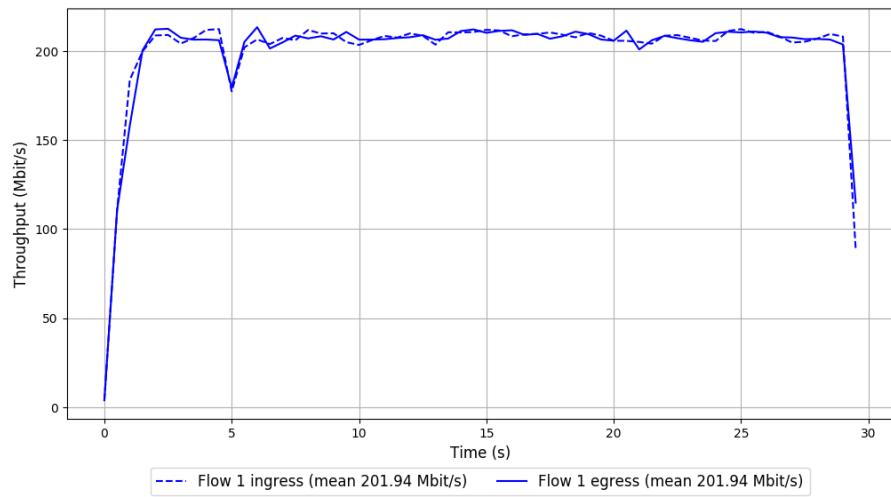
Run 9: Statistics of Indigo

Start at: 2017-09-18 05:54:00

End at: 2017-09-18 05:54:30

```
# Below is generated by plot.py at 2017-09-18 07:54:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 201.94 Mbit/s
95th percentile per-packet one-way delay: 50.547 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 201.94 Mbit/s
95th percentile per-packet one-way delay: 50.547 ms
Loss rate: 0.00%
```

Run 9: Report of Indigo — Data Link



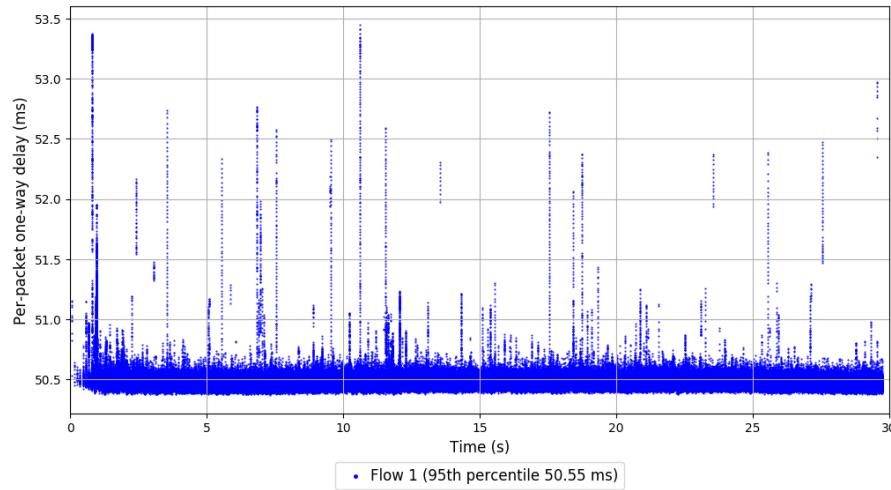
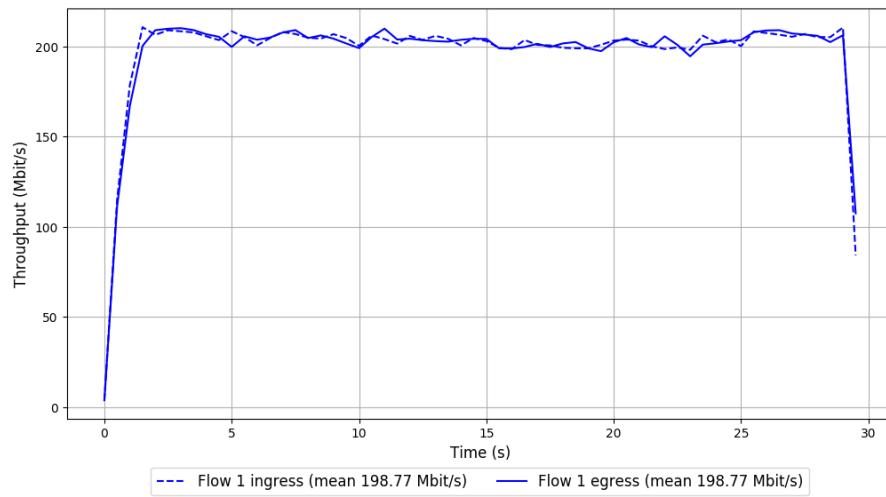
Run 10: Statistics of Indigo

Start at: 2017-09-18 06:05:17

End at: 2017-09-18 06:05:47

```
# Below is generated by plot.py at 2017-09-18 07:54:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 198.77 Mbit/s
95th percentile per-packet one-way delay: 50.555 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 198.77 Mbit/s
95th percentile per-packet one-way delay: 50.555 ms
Loss rate: 0.00%
```

Run 10: Report of Indigo — Data Link



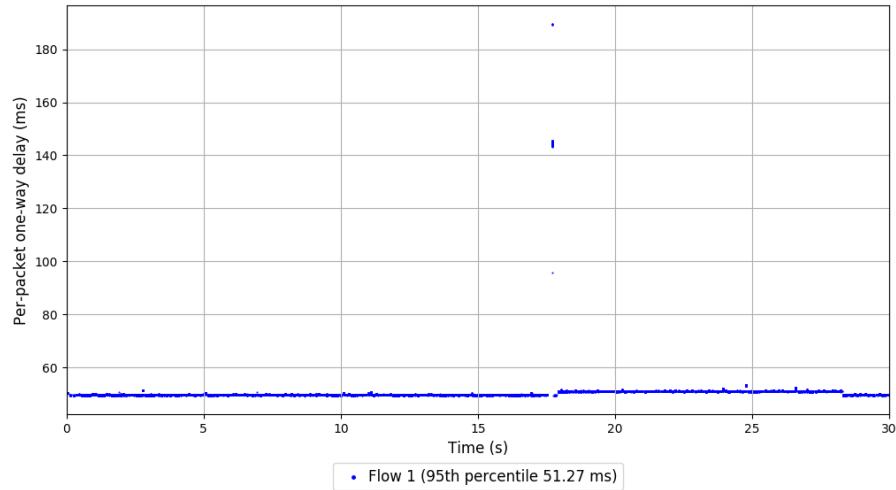
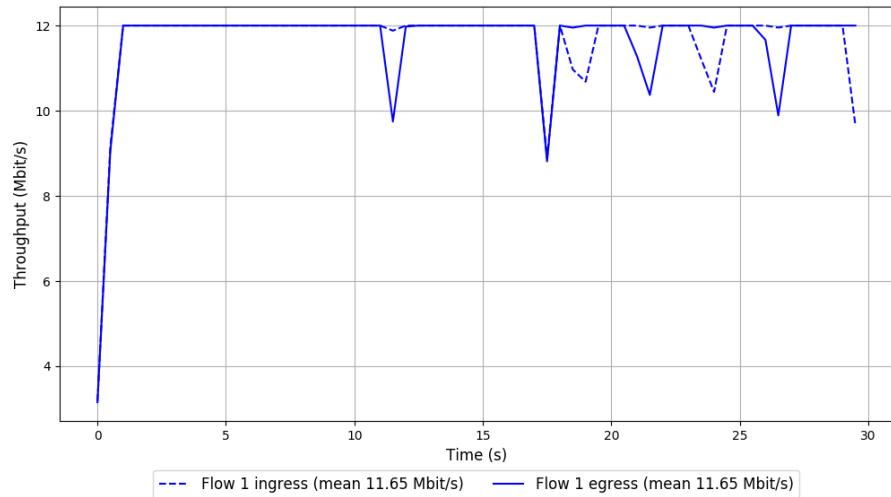
Run 1: Statistics of KohoCC

Start at: 2017-09-18 04:26:48

End at: 2017-09-18 04:27:18

```
# Below is generated by plot.py at 2017-09-18 07:54:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.65 Mbit/s
95th percentile per-packet one-way delay: 51.265 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 11.65 Mbit/s
95th percentile per-packet one-way delay: 51.265 ms
Loss rate: 0.01%
```

Run 1: Report of KohoCC — Data Link



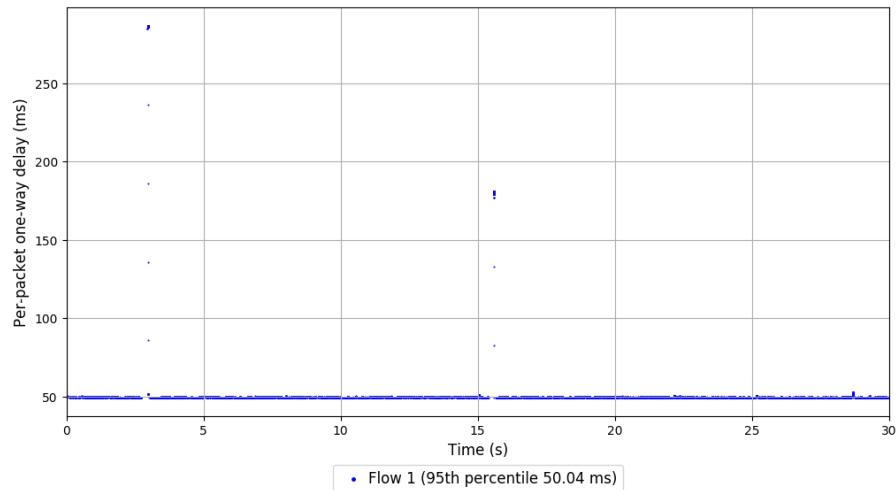
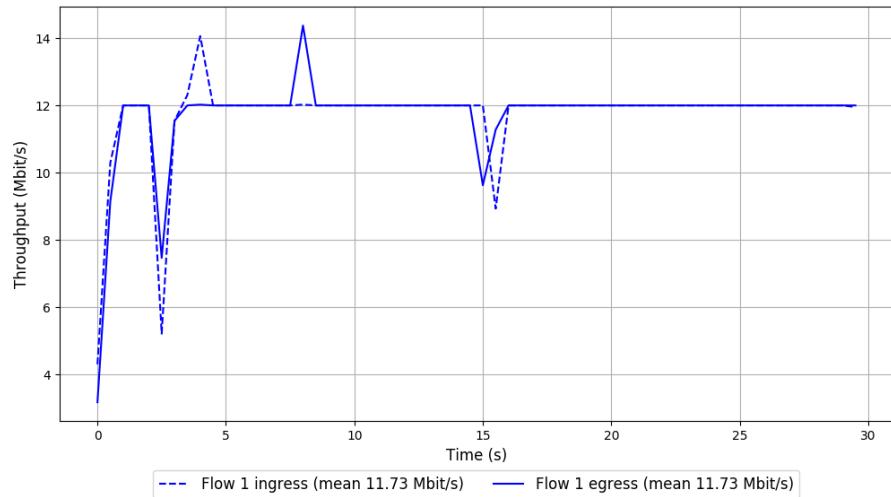
Run 2: Statistics of KohoCC

Start at: 2017-09-18 04:37:51

End at: 2017-09-18 04:38:21

```
# Below is generated by plot.py at 2017-09-18 07:54:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.73 Mbit/s
95th percentile per-packet one-way delay: 50.041 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.73 Mbit/s
95th percentile per-packet one-way delay: 50.041 ms
Loss rate: 0.00%
```

Run 2: Report of KohoCC — Data Link



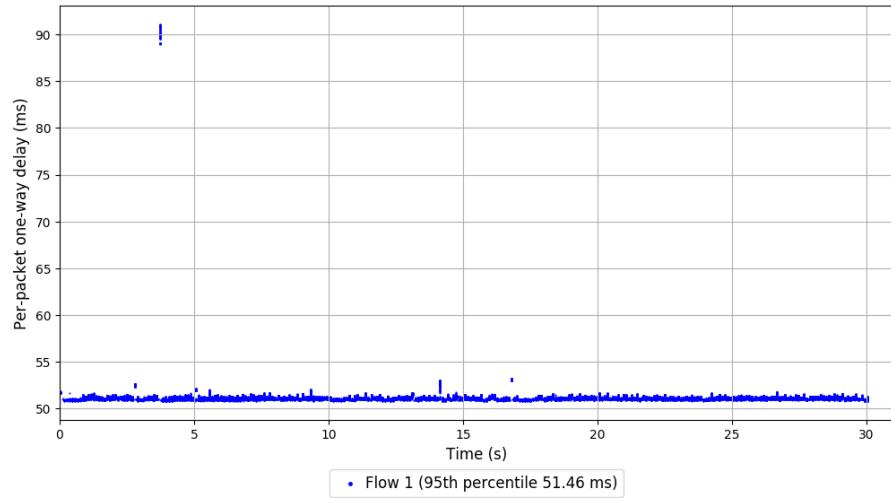
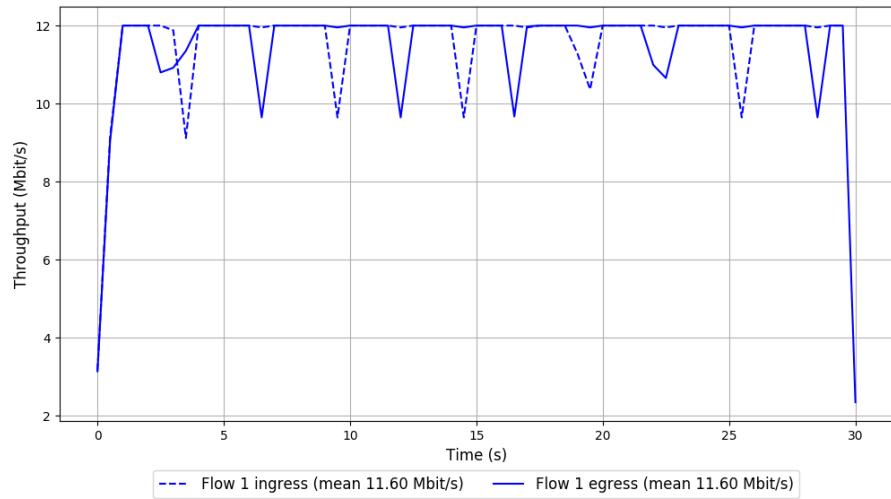
Run 3: Statistics of KohoCC

Start at: 2017-09-18 04:49:02

End at: 2017-09-18 04:49:32

```
# Below is generated by plot.py at 2017-09-18 07:54:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.60 Mbit/s
95th percentile per-packet one-way delay: 51.462 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.60 Mbit/s
95th percentile per-packet one-way delay: 51.462 ms
Loss rate: 0.00%
```

Run 3: Report of KohoCC — Data Link



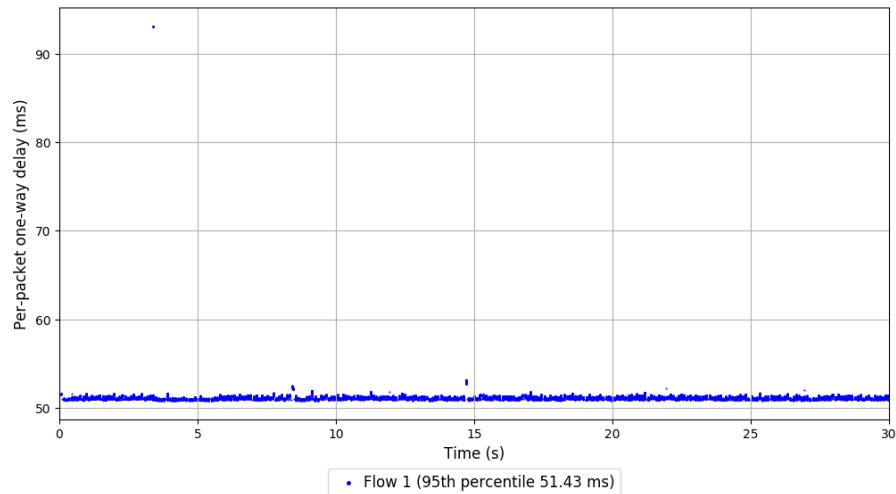
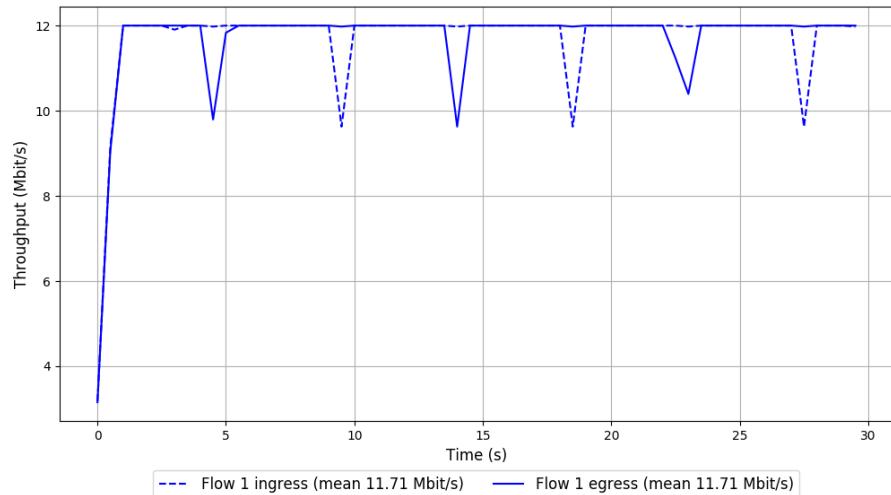
Run 4: Statistics of KohoCC

Start at: 2017-09-18 05:00:03

End at: 2017-09-18 05:00:33

```
# Below is generated by plot.py at 2017-09-18 07:54:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.71 Mbit/s
95th percentile per-packet one-way delay: 51.432 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.71 Mbit/s
95th percentile per-packet one-way delay: 51.432 ms
Loss rate: 0.00%
```

Run 4: Report of KohoCC — Data Link



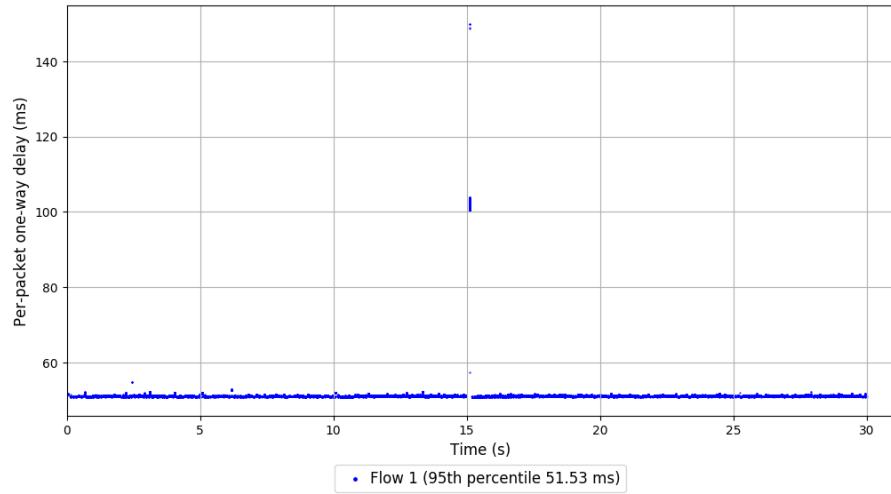
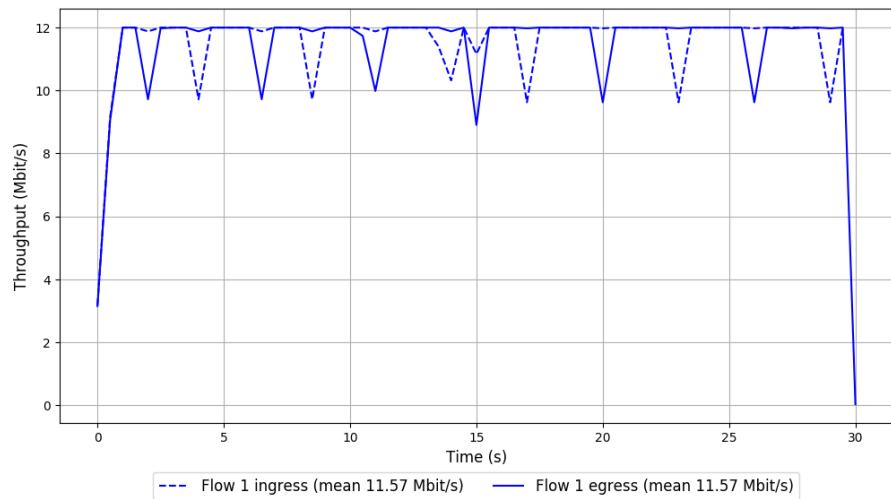
Run 5: Statistics of KohoCC

Start at: 2017-09-18 05:11:21

End at: 2017-09-18 05:11:51

```
# Below is generated by plot.py at 2017-09-18 07:54:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.57 Mbit/s
95th percentile per-packet one-way delay: 51.530 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 11.57 Mbit/s
95th percentile per-packet one-way delay: 51.530 ms
Loss rate: 0.01%
```

Run 5: Report of KohoCC — Data Link



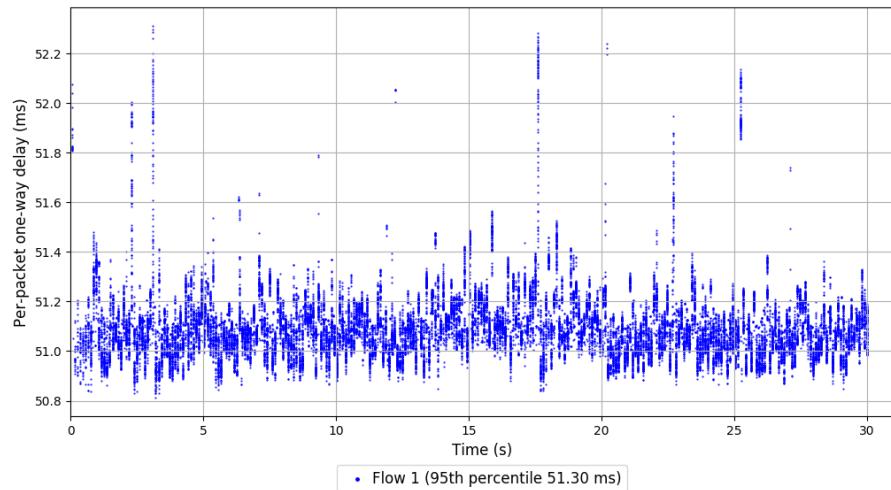
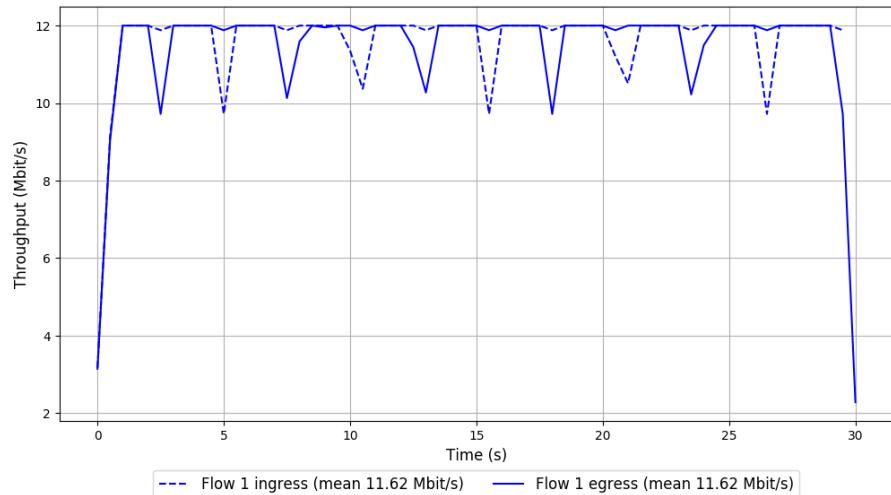
Run 6: Statistics of KohoCC

Start at: 2017-09-18 05:22:23

End at: 2017-09-18 05:22:53

```
# Below is generated by plot.py at 2017-09-18 07:54:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.62 Mbit/s
95th percentile per-packet one-way delay: 51.297 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 11.62 Mbit/s
95th percentile per-packet one-way delay: 51.297 ms
Loss rate: 0.01%
```

Run 6: Report of KohoCC — Data Link



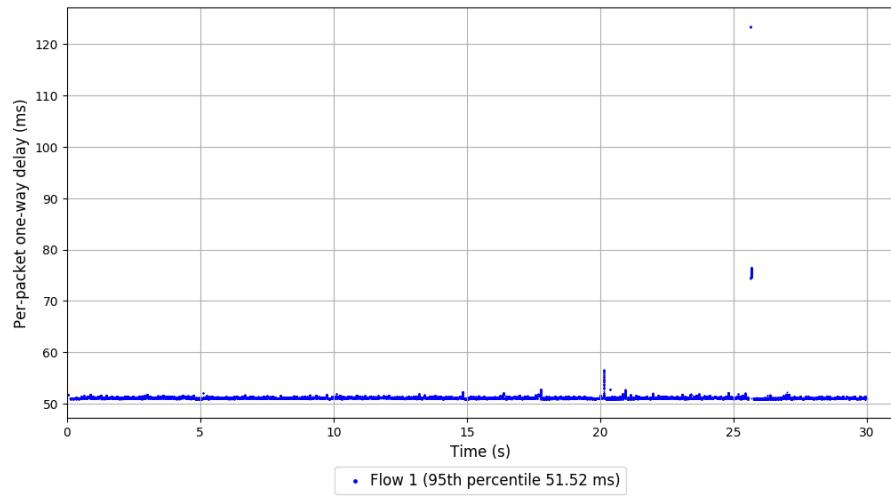
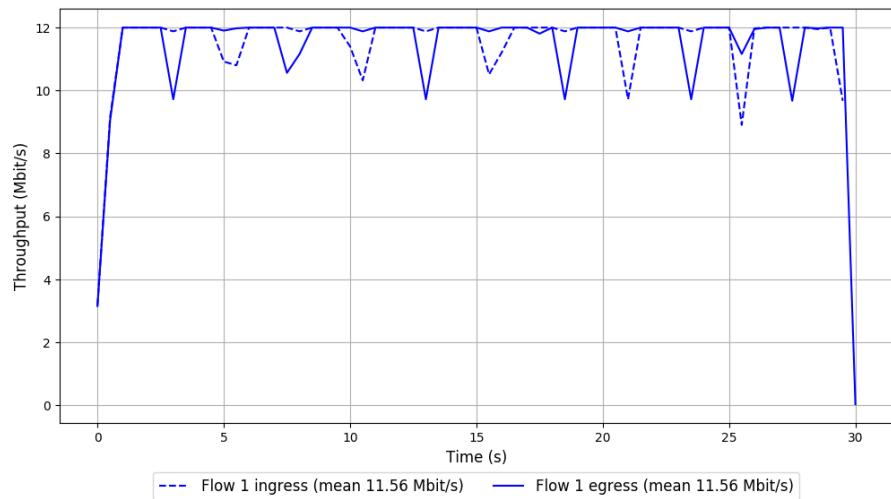
Run 7: Statistics of KohoCC

Start at: 2017-09-18 05:33:40

End at: 2017-09-18 05:34:11

```
# Below is generated by plot.py at 2017-09-18 07:54:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.56 Mbit/s
95th percentile per-packet one-way delay: 51.521 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 11.56 Mbit/s
95th percentile per-packet one-way delay: 51.521 ms
Loss rate: 0.03%
```

Run 7: Report of KohoCC — Data Link



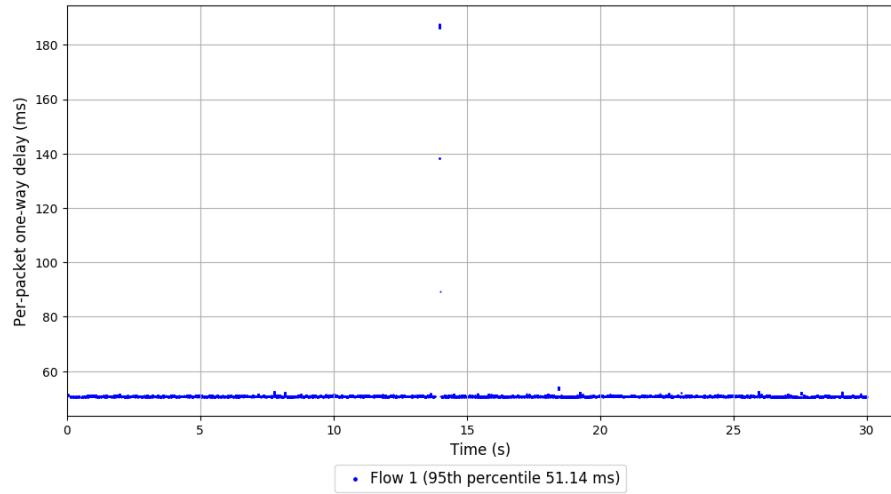
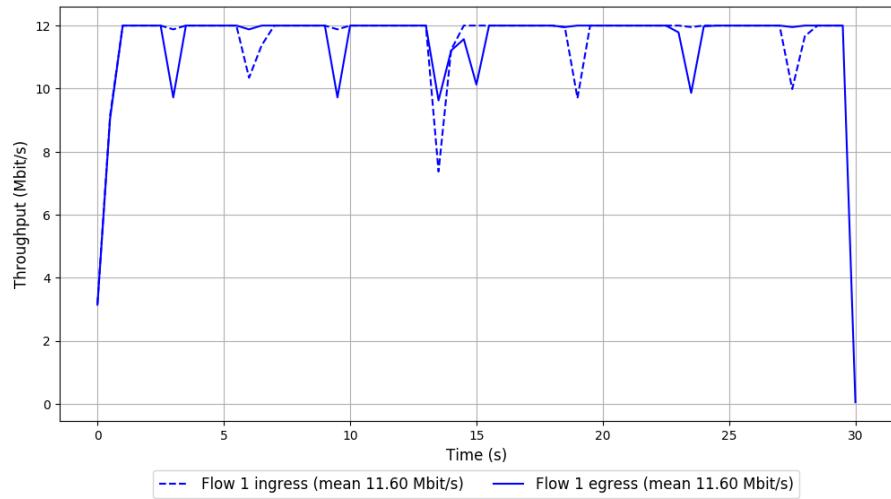
Run 8: Statistics of KohoCC

Start at: 2017-09-18 05:44:52

End at: 2017-09-18 05:45:22

```
# Below is generated by plot.py at 2017-09-18 07:54:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.60 Mbit/s
95th percentile per-packet one-way delay: 51.142 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.60 Mbit/s
95th percentile per-packet one-way delay: 51.142 ms
Loss rate: 0.00%
```

Run 8: Report of KohoCC — Data Link



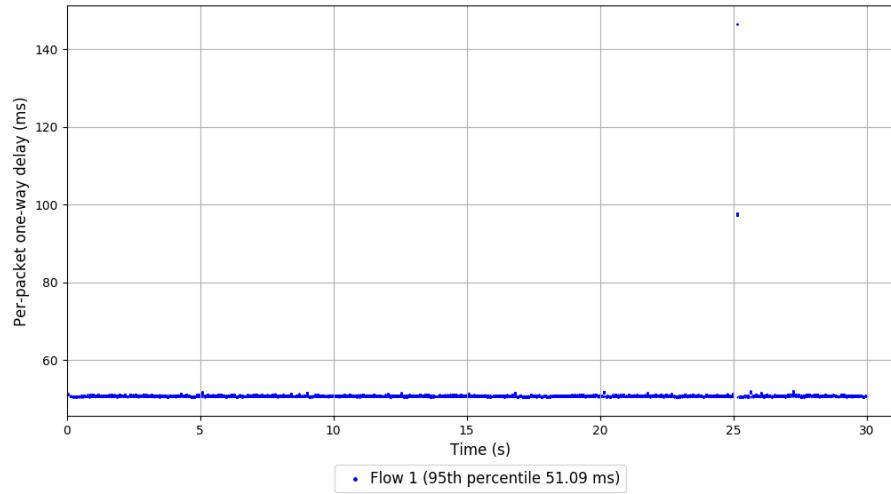
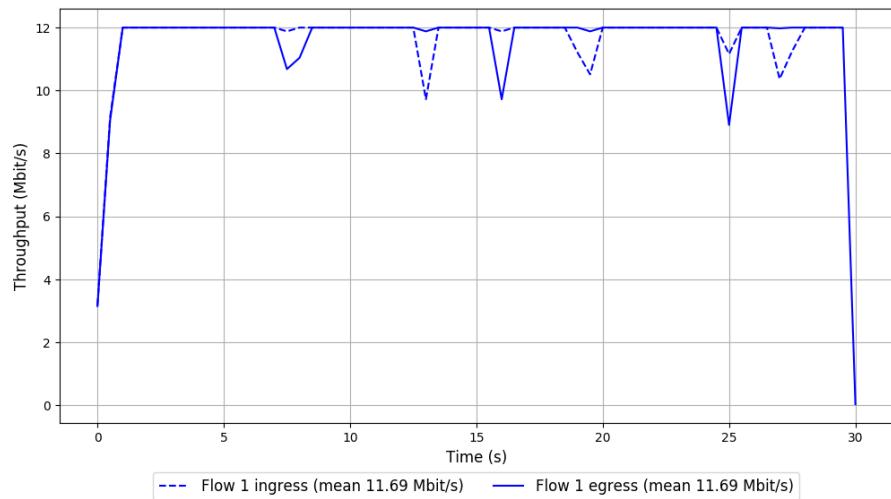
Run 9: Statistics of KohoCC

Start at: 2017-09-18 05:56:11

End at: 2017-09-18 05:56:41

```
# Below is generated by plot.py at 2017-09-18 07:54:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.69 Mbit/s
95th percentile per-packet one-way delay: 51.093 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.69 Mbit/s
95th percentile per-packet one-way delay: 51.093 ms
Loss rate: 0.00%
```

Run 9: Report of KohoCC — Data Link



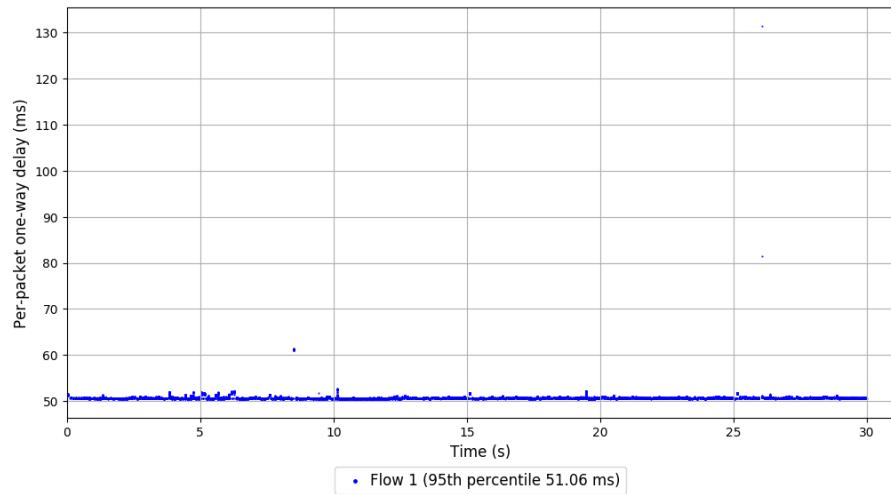
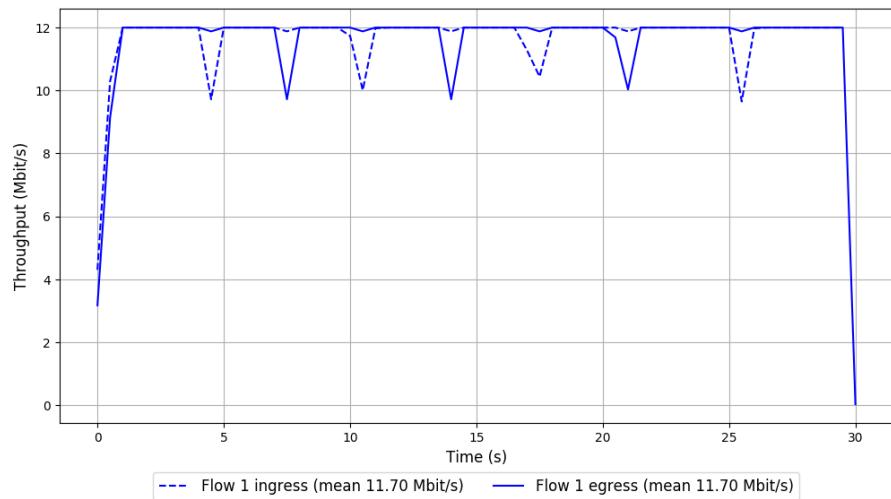
Run 10: Statistics of KohoCC

Start at: 2017-09-18 06:07:28

End at: 2017-09-18 06:07:58

```
# Below is generated by plot.py at 2017-09-18 07:54:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.70 Mbit/s
95th percentile per-packet one-way delay: 51.060 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.70 Mbit/s
95th percentile per-packet one-way delay: 51.060 ms
Loss rate: 0.00%
```

Run 10: Report of KohoCC — Data Link

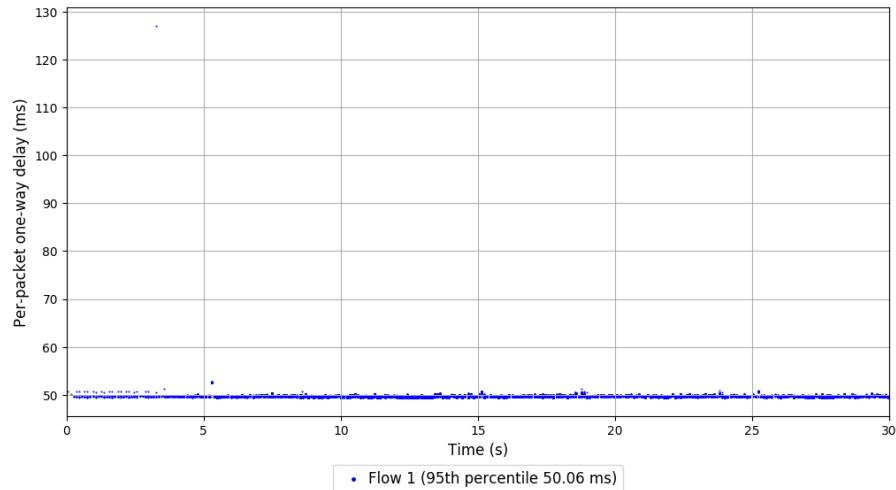
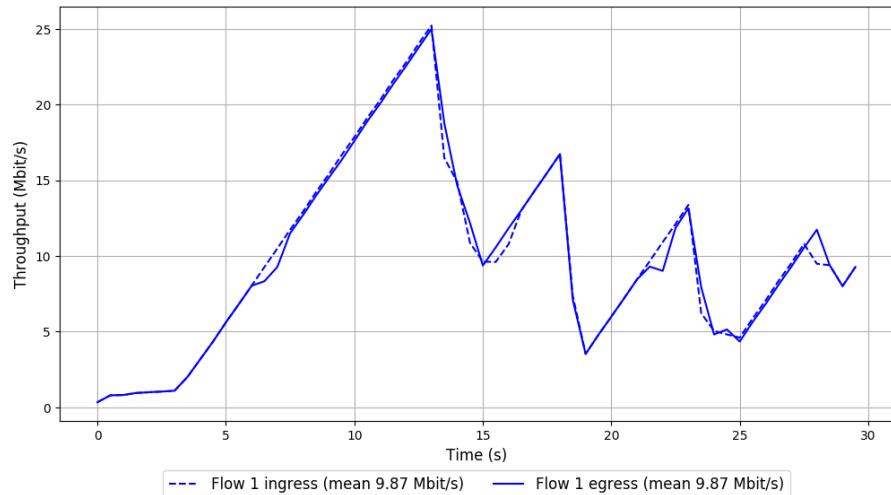


```
Run 1: Statistics of LEDBAT

Start at: 2017-09-18 04:30:07
End at: 2017-09-18 04:30:37

# Below is generated by plot.py at 2017-09-18 07:54:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.87 Mbit/s
95th percentile per-packet one-way delay: 50.062 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 9.87 Mbit/s
95th percentile per-packet one-way delay: 50.062 ms
Loss rate: 0.08%
```

Run 1: Report of LEDBAT — Data Link



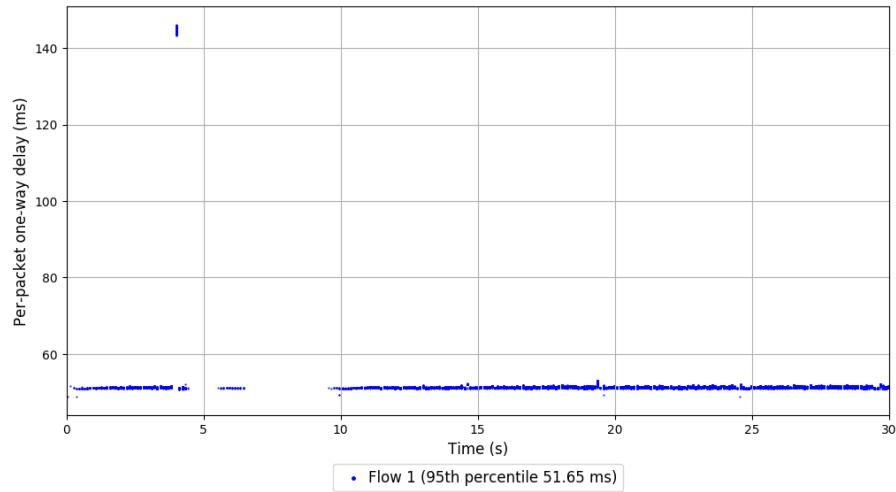
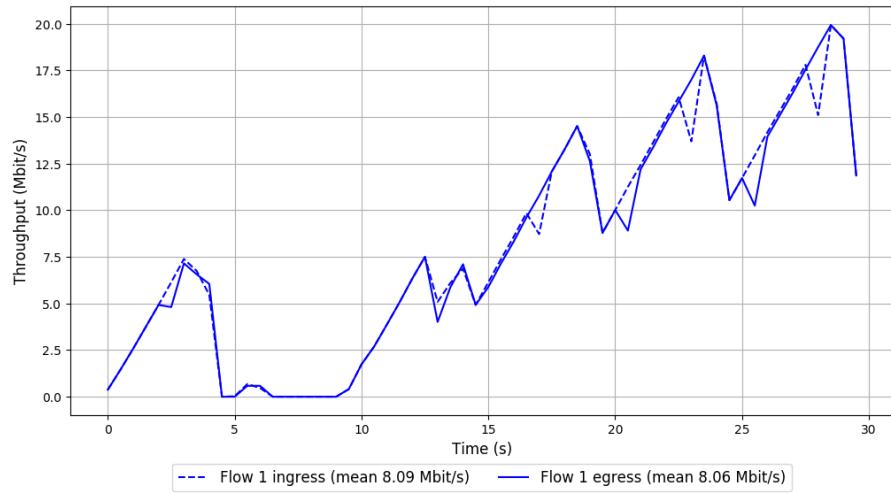
Run 2: Statistics of LEDBAT

Start at: 2017-09-18 04:41:02

End at: 2017-09-18 04:41:32

```
# Below is generated by plot.py at 2017-09-18 07:54:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.06 Mbit/s
95th percentile per-packet one-way delay: 51.651 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 8.06 Mbit/s
95th percentile per-packet one-way delay: 51.651 ms
Loss rate: 0.34%
```

Run 2: Report of LEDBAT — Data Link



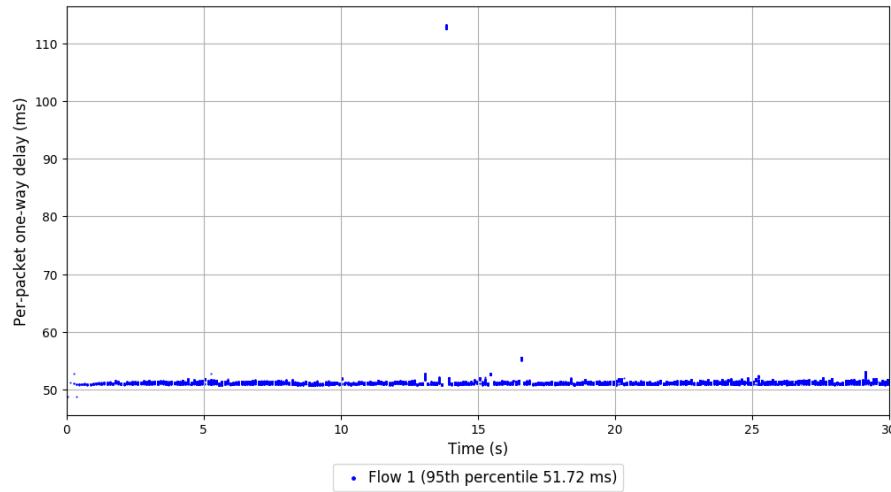
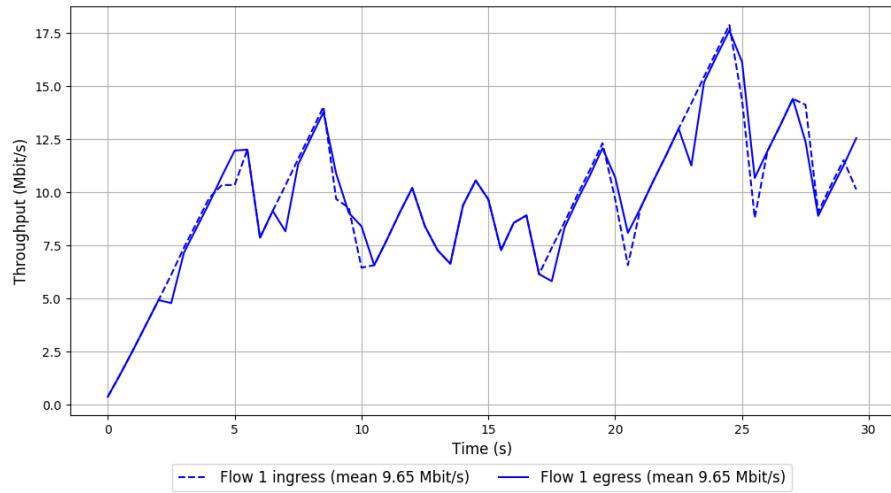
Run 3: Statistics of LEDBAT

Start at: 2017-09-18 04:52:22

End at: 2017-09-18 04:52:52

```
# Below is generated by plot.py at 2017-09-18 07:54:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.65 Mbit/s
95th percentile per-packet one-way delay: 51.715 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.65 Mbit/s
95th percentile per-packet one-way delay: 51.715 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link



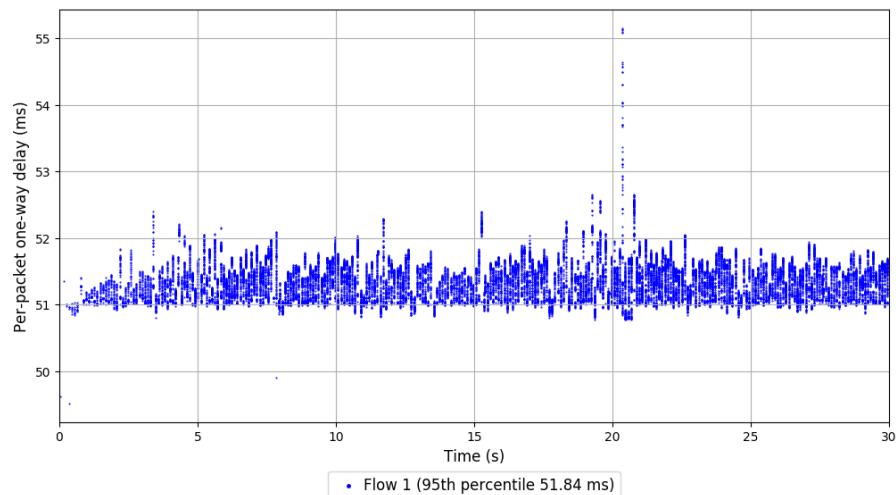
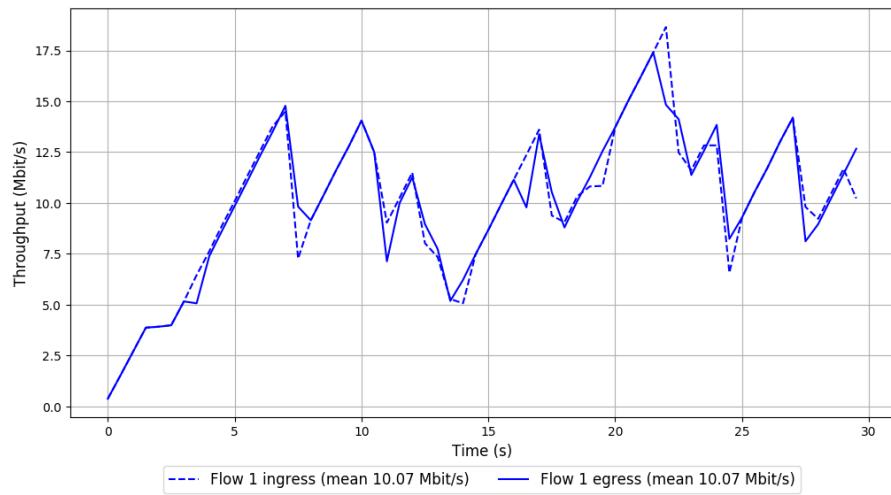
Run 4: Statistics of LEDBAT

Start at: 2017-09-18 05:03:21

End at: 2017-09-18 05:03:51

```
# Below is generated by plot.py at 2017-09-18 07:54:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.07 Mbit/s
95th percentile per-packet one-way delay: 51.835 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.07 Mbit/s
95th percentile per-packet one-way delay: 51.835 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link



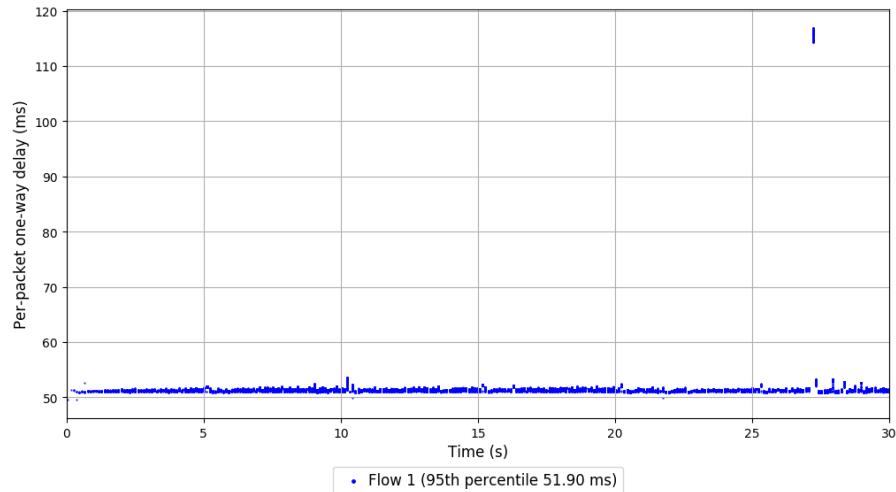
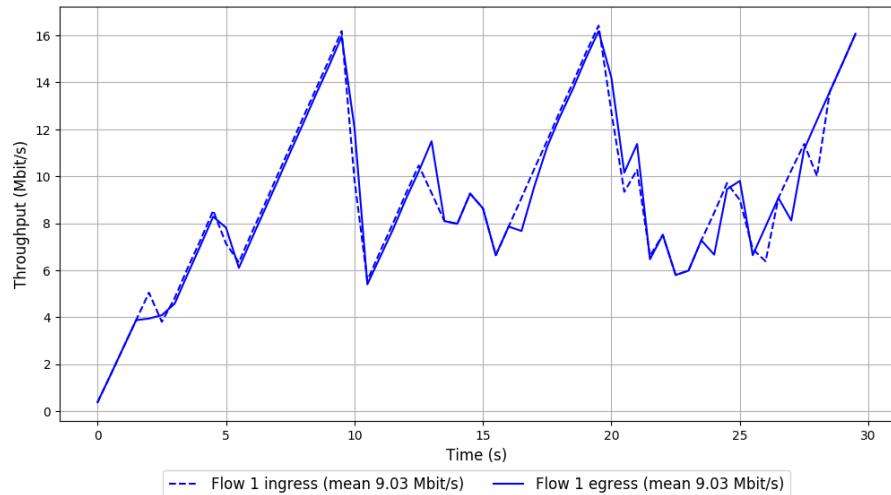
Run 5: Statistics of LEDBAT

Start at: 2017-09-18 05:14:39

End at: 2017-09-18 05:15:09

```
# Below is generated by plot.py at 2017-09-18 07:54:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.03 Mbit/s
95th percentile per-packet one-way delay: 51.899 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 9.03 Mbit/s
95th percentile per-packet one-way delay: 51.899 ms
Loss rate: 0.03%
```

Run 5: Report of LEDBAT — Data Link



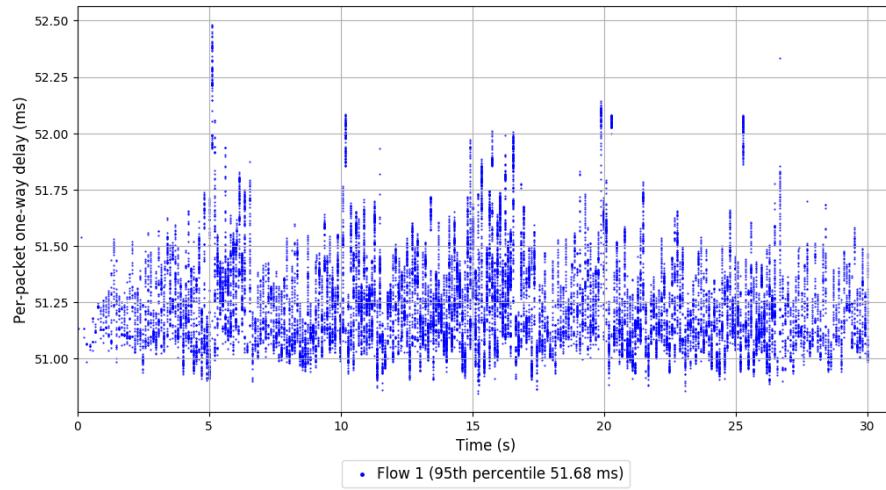
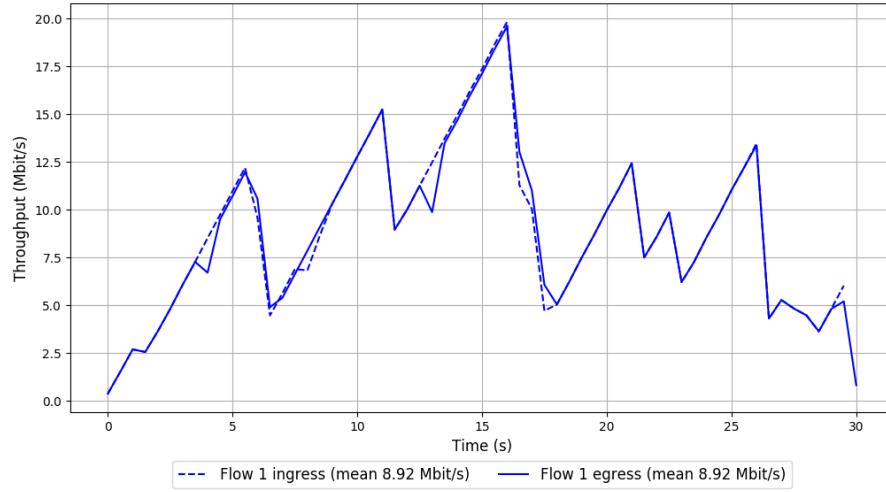
Run 6: Statistics of LEDBAT

Start at: 2017-09-18 05:25:34

End at: 2017-09-18 05:26:04

```
# Below is generated by plot.py at 2017-09-18 07:54:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.92 Mbit/s
95th percentile per-packet one-way delay: 51.676 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 8.92 Mbit/s
95th percentile per-packet one-way delay: 51.676 ms
Loss rate: 0.04%
```

Run 6: Report of LEDBAT — Data Link



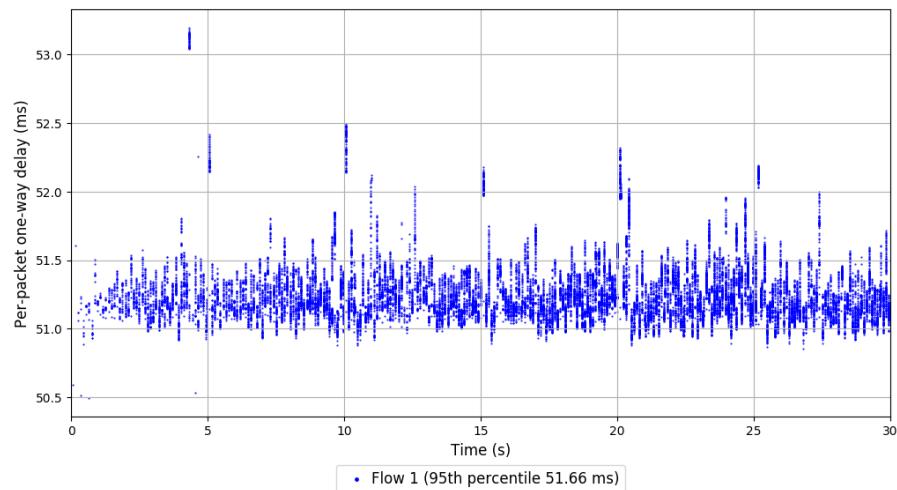
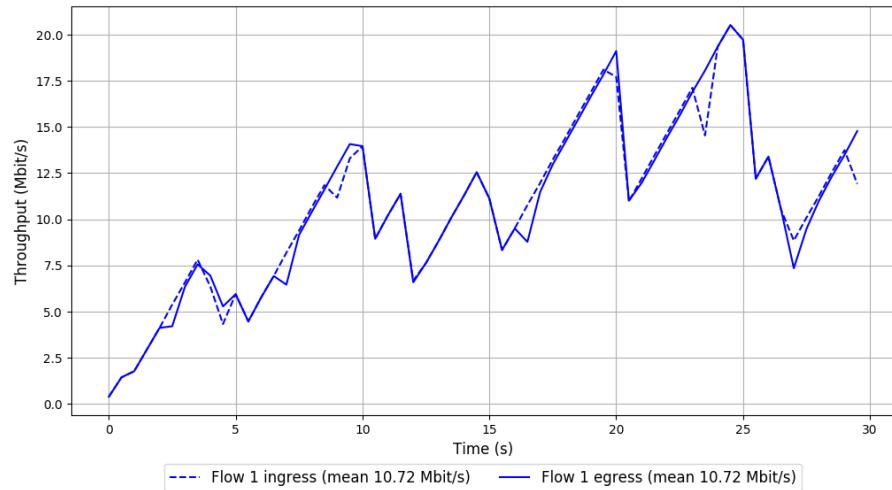
Run 7: Statistics of LEDBAT

Start at: 2017-09-18 05:37:01

End at: 2017-09-18 05:37:31

```
# Below is generated by plot.py at 2017-09-18 07:54:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.72 Mbit/s
95th percentile per-packet one-way delay: 51.658 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 10.72 Mbit/s
95th percentile per-packet one-way delay: 51.658 ms
Loss rate: 0.03%
```

Run 7: Report of LEDBAT — Data Link



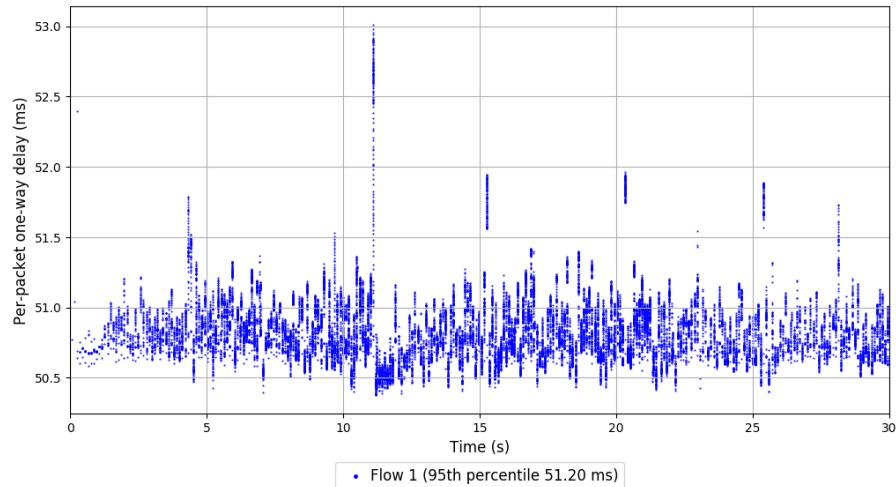
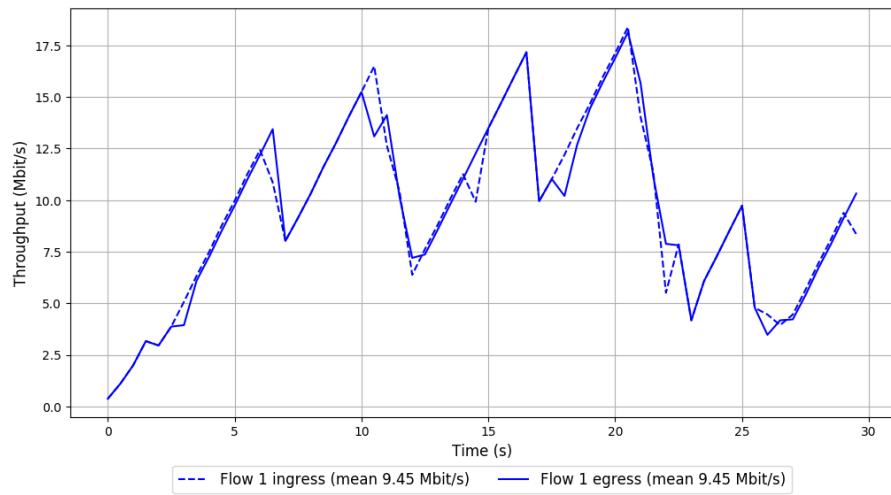
Run 8: Statistics of LEDBAT

Start at: 2017-09-18 05:48:10

End at: 2017-09-18 05:48:40

```
# Below is generated by plot.py at 2017-09-18 07:54:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.45 Mbit/s
95th percentile per-packet one-way delay: 51.205 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 9.45 Mbit/s
95th percentile per-packet one-way delay: 51.205 ms
Loss rate: 0.01%
```

Run 8: Report of LEDBAT — Data Link



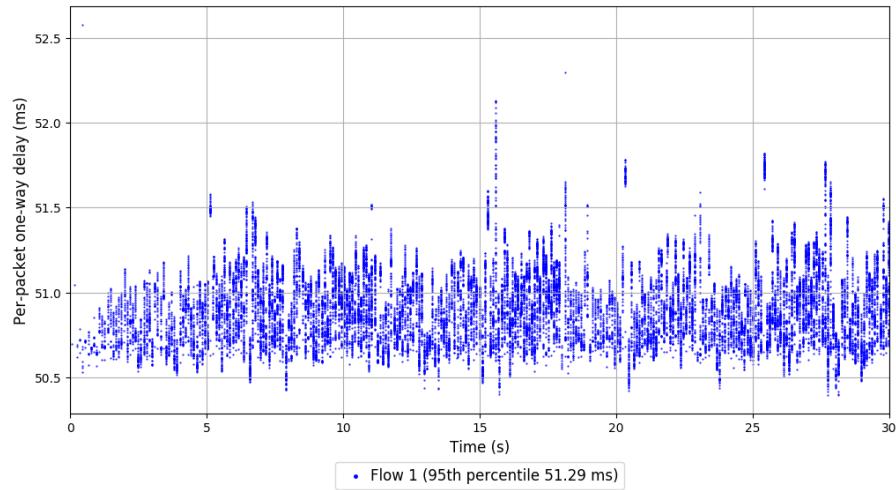
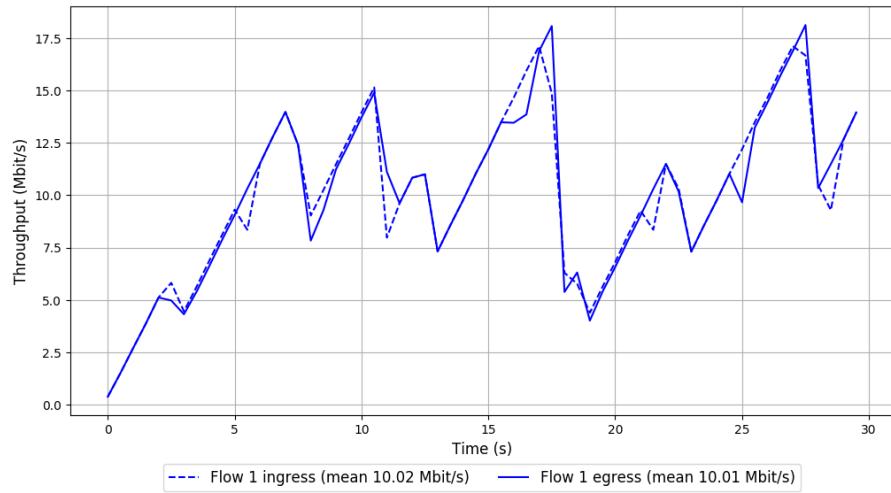
Run 9: Statistics of LEDBAT

Start at: 2017-09-18 05:59:30

End at: 2017-09-18 06:00:00

```
# Below is generated by plot.py at 2017-09-18 07:54:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.01 Mbit/s
95th percentile per-packet one-way delay: 51.292 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 10.01 Mbit/s
95th percentile per-packet one-way delay: 51.292 ms
Loss rate: 0.04%
```

Run 9: Report of LEDBAT — Data Link



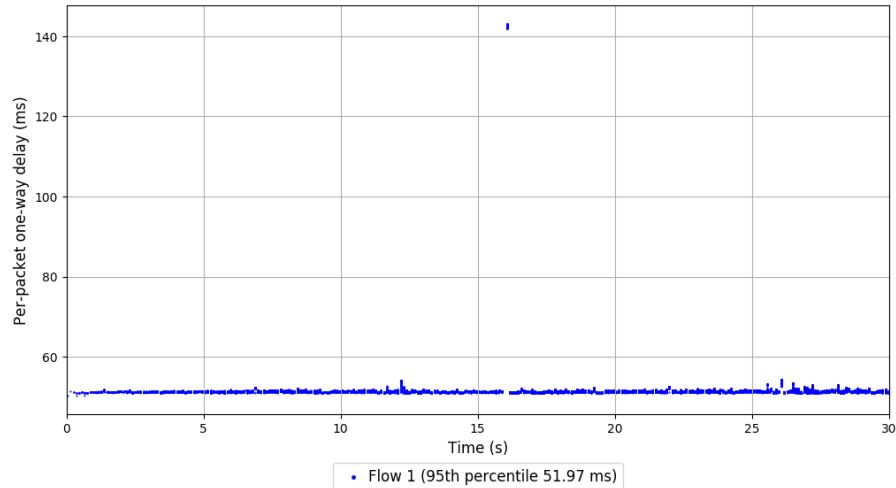
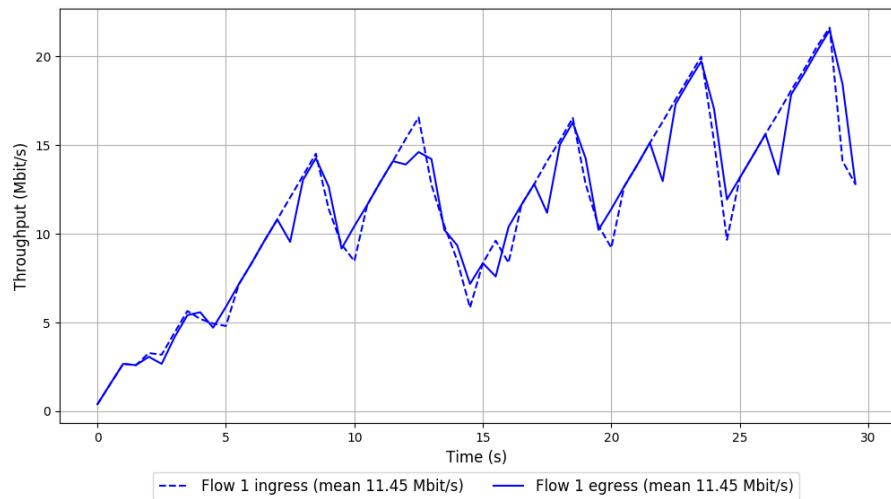
Run 10: Statistics of LEDBAT

Start at: 2017-09-18 06:10:50

End at: 2017-09-18 06:11:20

```
# Below is generated by plot.py at 2017-09-18 07:54:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.45 Mbit/s
95th percentile per-packet one-way delay: 51.970 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.45 Mbit/s
95th percentile per-packet one-way delay: 51.970 ms
Loss rate: 0.00%
```

Run 10: Report of LEDBAT — Data Link

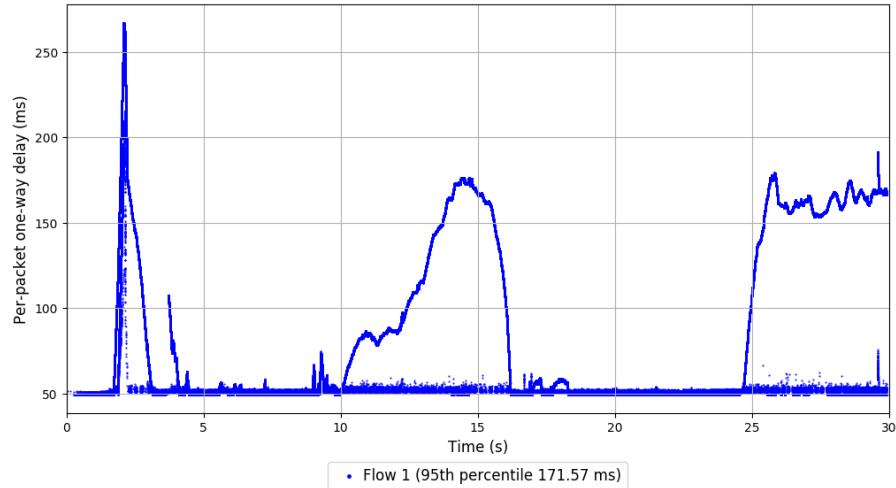
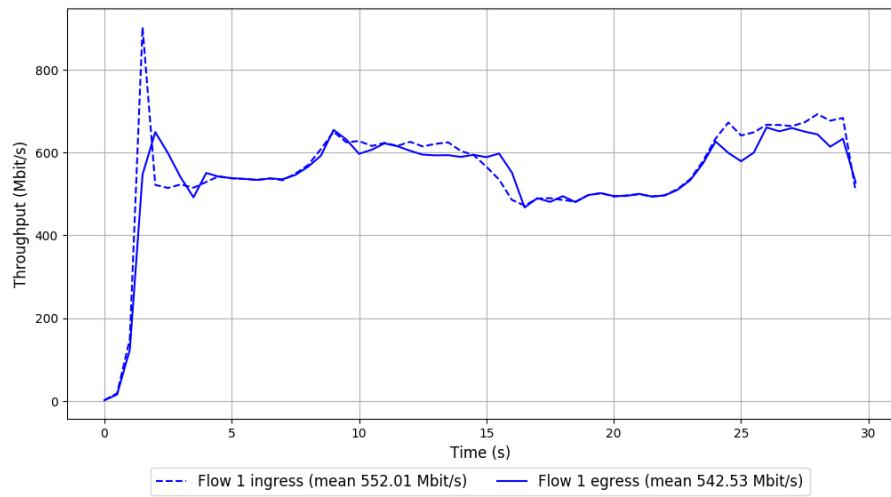


```
Run 1: Statistics of PCC

Start at: 2017-09-18 04:23:02
End at: 2017-09-18 04:23:32

# Below is generated by plot.py at 2017-09-18 08:02:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 542.53 Mbit/s
95th percentile per-packet one-way delay: 171.566 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 542.53 Mbit/s
95th percentile per-packet one-way delay: 171.566 ms
Loss rate: 1.73%
```

Run 1: Report of PCC — Data Link



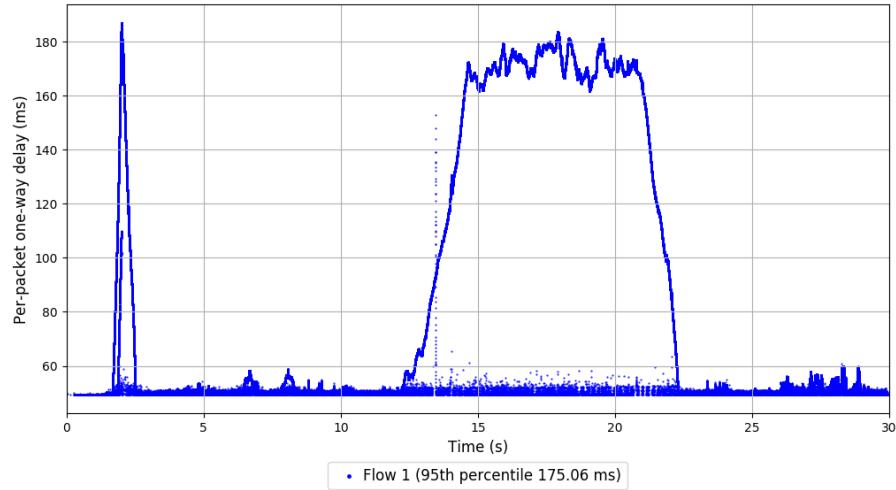
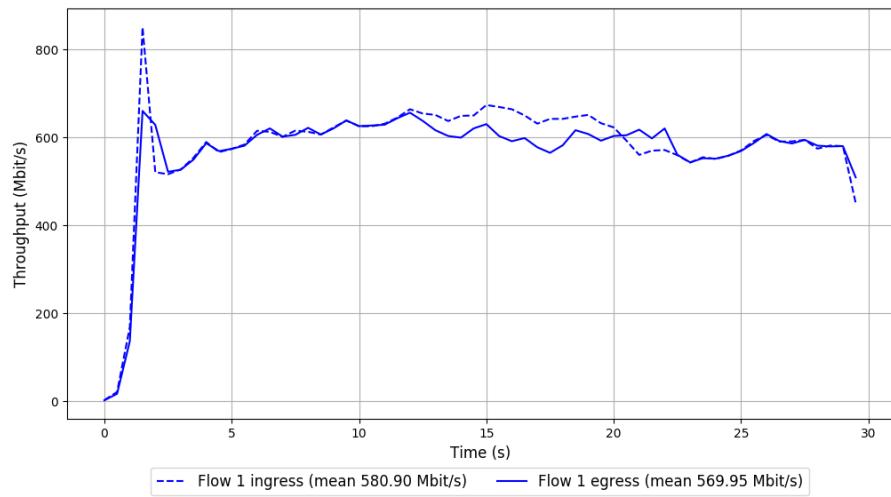
Run 2: Statistics of PCC

Start at: 2017-09-18 04:34:03

End at: 2017-09-18 04:34:33

```
# Below is generated by plot.py at 2017-09-18 08:02:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 569.95 Mbit/s
95th percentile per-packet one-way delay: 175.065 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 569.95 Mbit/s
95th percentile per-packet one-way delay: 175.065 ms
Loss rate: 1.89%
```

Run 2: Report of PCC — Data Link



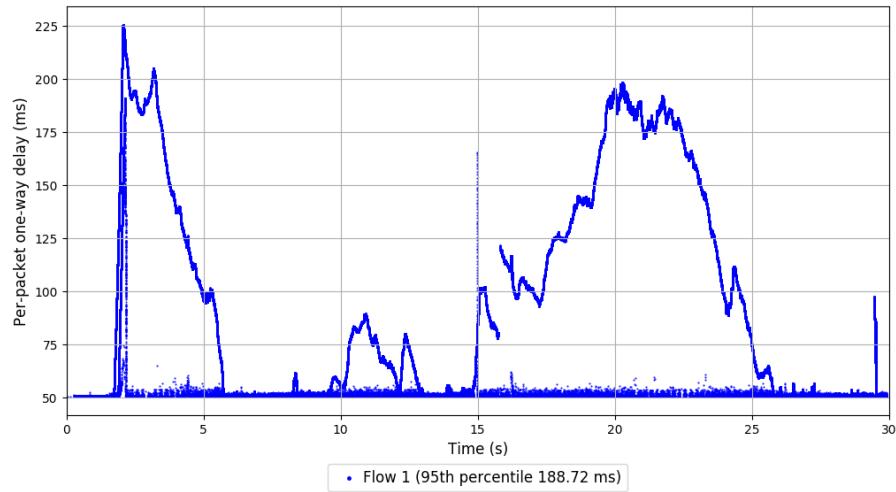
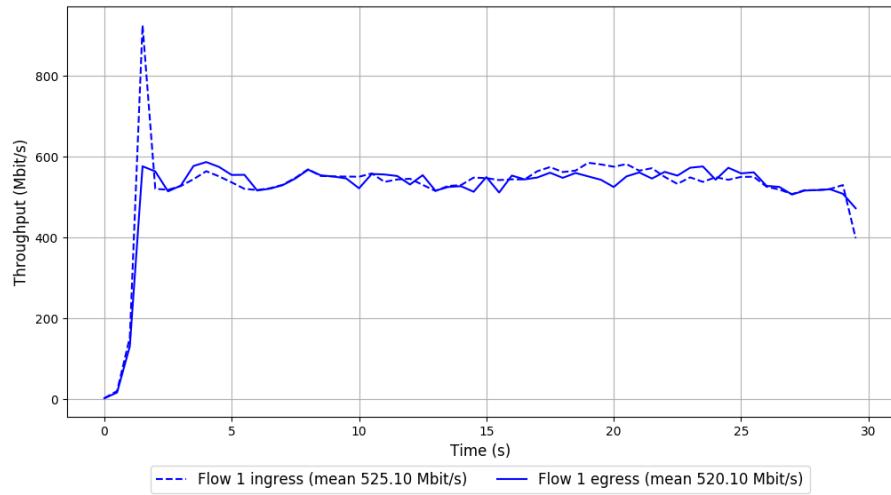
Run 3: Statistics of PCC

Start at: 2017-09-18 04:45:20

End at: 2017-09-18 04:45:50

```
# Below is generated by plot.py at 2017-09-18 08:02:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 520.10 Mbit/s
95th percentile per-packet one-way delay: 188.715 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 520.10 Mbit/s
95th percentile per-packet one-way delay: 188.715 ms
Loss rate: 0.95%
```

Run 3: Report of PCC — Data Link



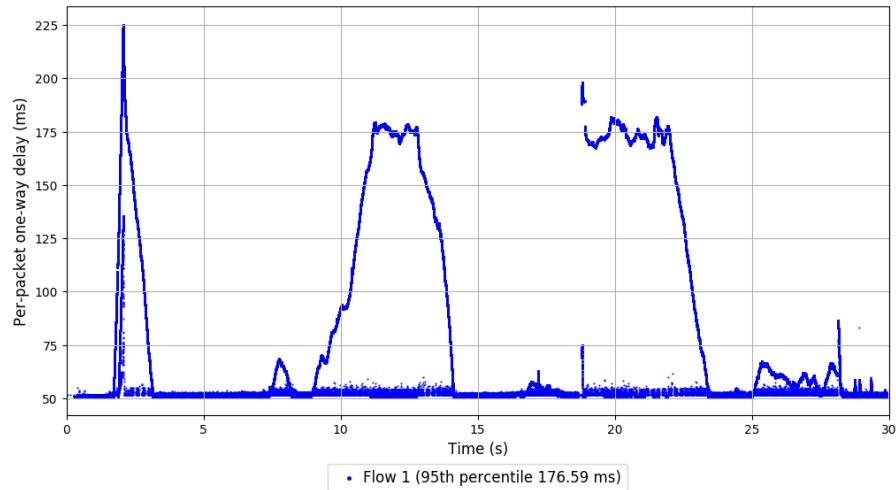
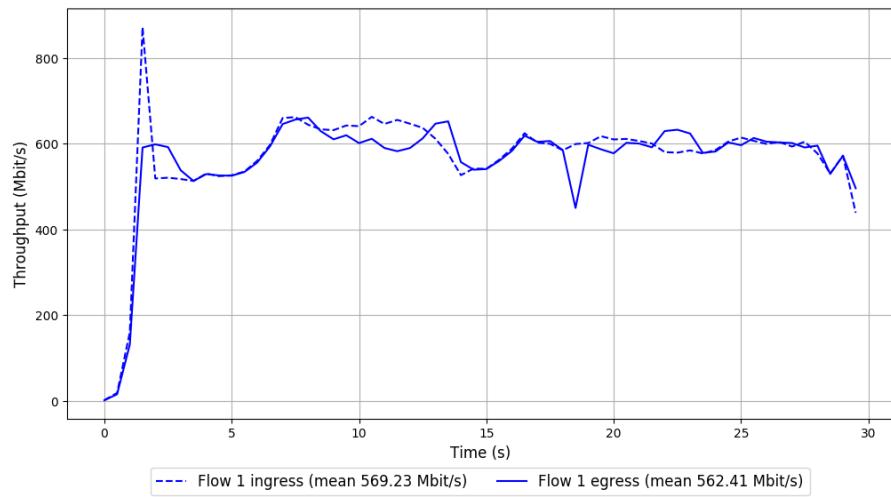
Run 4: Statistics of PCC

Start at: 2017-09-18 04:56:17

End at: 2017-09-18 04:56:47

```
# Below is generated by plot.py at 2017-09-18 08:02:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 562.41 Mbit/s
95th percentile per-packet one-way delay: 176.593 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 562.41 Mbit/s
95th percentile per-packet one-way delay: 176.593 ms
Loss rate: 1.20%
```

Run 4: Report of PCC — Data Link



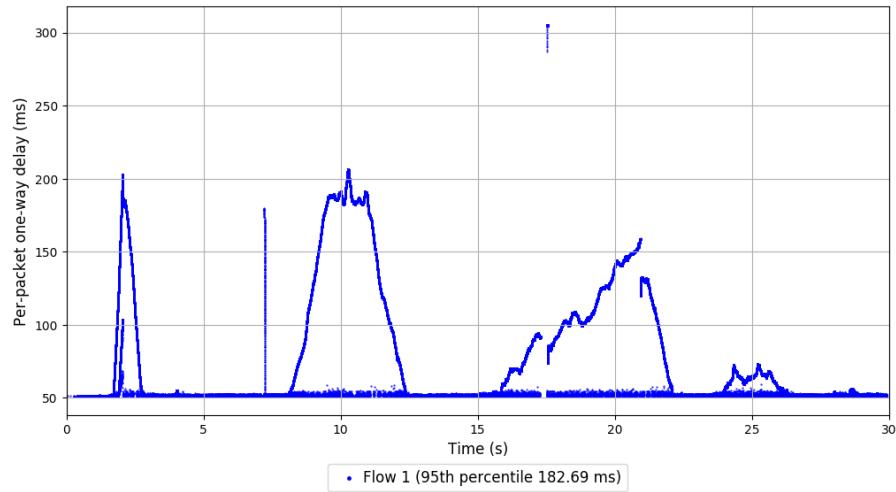
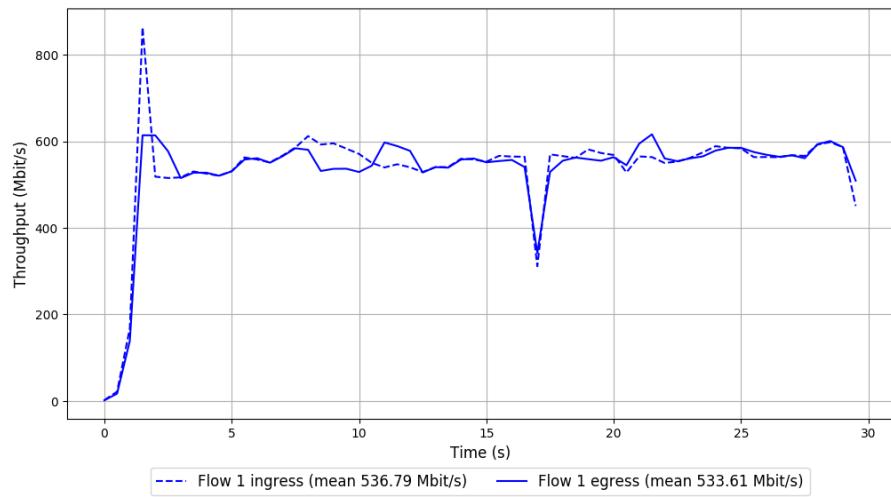
Run 5: Statistics of PCC

Start at: 2017-09-18 05:07:36

End at: 2017-09-18 05:08:06

```
# Below is generated by plot.py at 2017-09-18 08:02:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 533.61 Mbit/s
95th percentile per-packet one-way delay: 182.689 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 533.61 Mbit/s
95th percentile per-packet one-way delay: 182.689 ms
Loss rate: 0.60%
```

Run 5: Report of PCC — Data Link



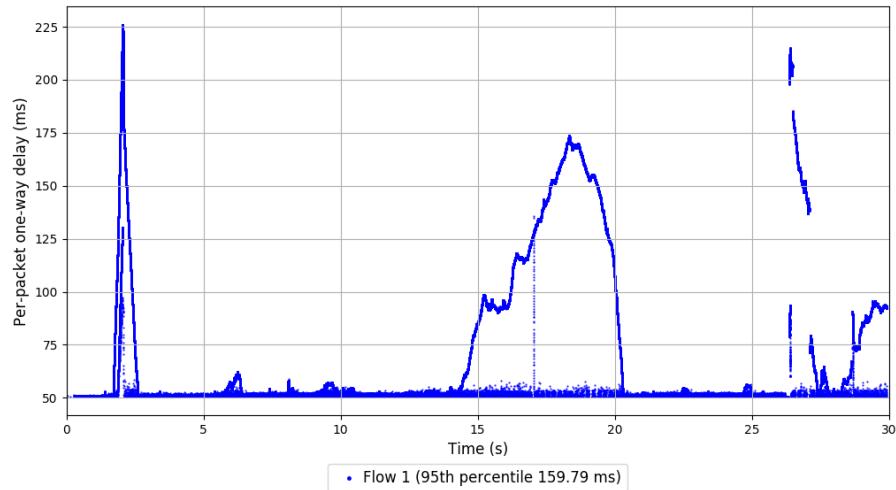
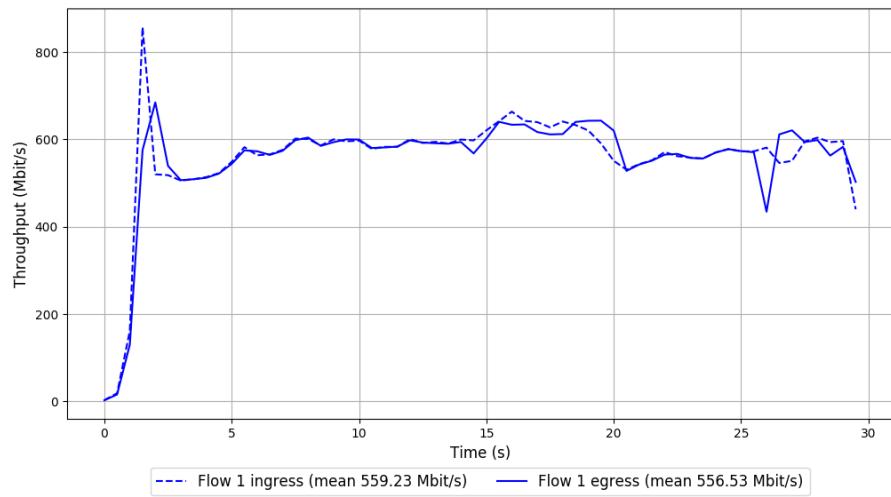
Run 6: Statistics of PCC

Start at: 2017-09-18 05:18:40

End at: 2017-09-18 05:19:10

```
# Below is generated by plot.py at 2017-09-18 08:03:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 556.53 Mbit/s
95th percentile per-packet one-way delay: 159.789 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 556.53 Mbit/s
95th percentile per-packet one-way delay: 159.789 ms
Loss rate: 0.48%
```

Run 6: Report of PCC — Data Link



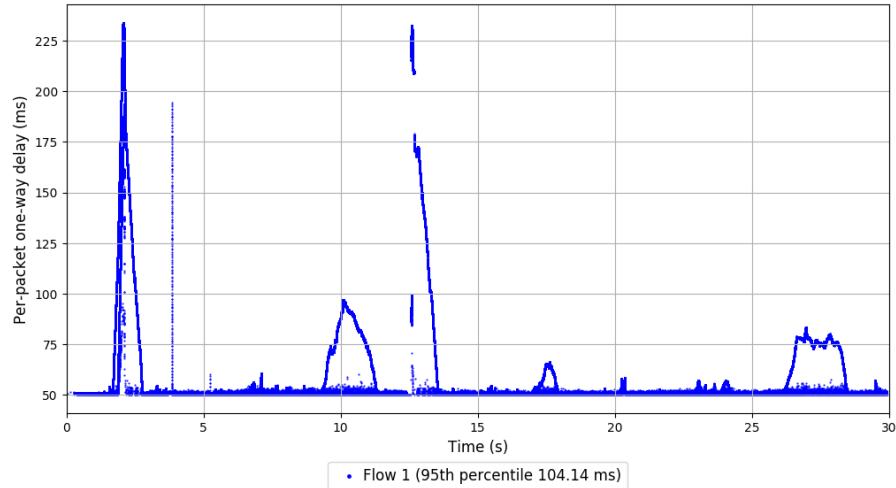
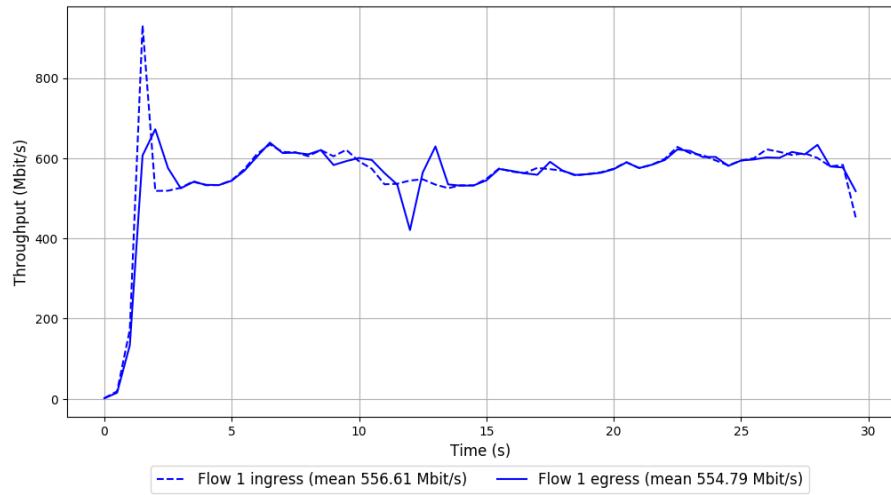
Run 7: Statistics of PCC

Start at: 2017-09-18 05:29:53

End at: 2017-09-18 05:30:24

```
# Below is generated by plot.py at 2017-09-18 08:04:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 554.79 Mbit/s
95th percentile per-packet one-way delay: 104.140 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 554.79 Mbit/s
95th percentile per-packet one-way delay: 104.140 ms
Loss rate: 0.33%
```

Run 7: Report of PCC — Data Link



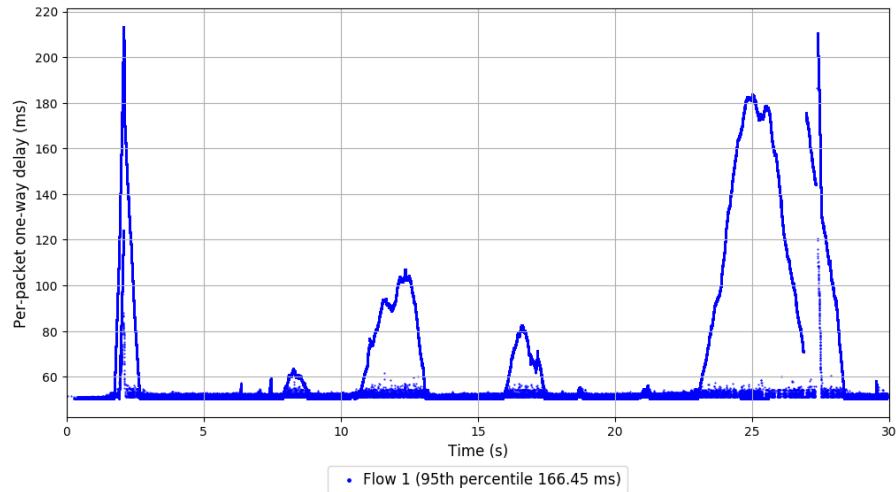
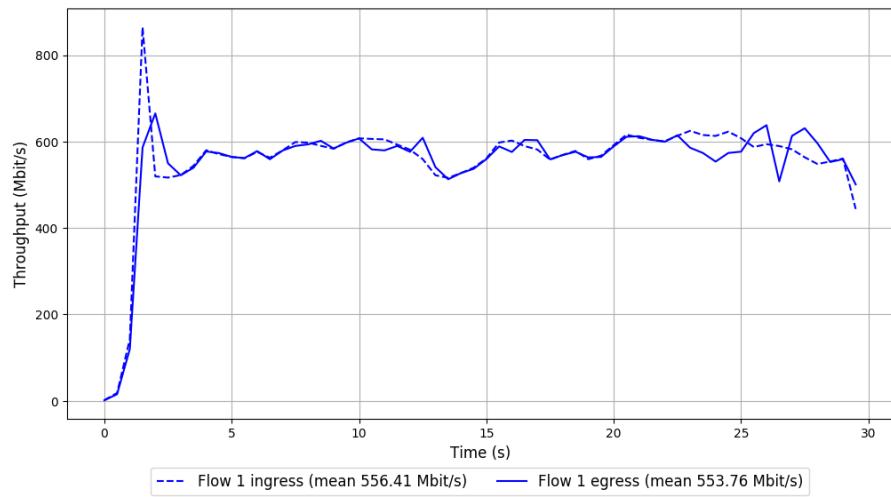
Run 8: Statistics of PCC

Start at: 2017-09-18 05:41:09

End at: 2017-09-18 05:41:39

```
# Below is generated by plot.py at 2017-09-18 08:04:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 553.76 Mbit/s
95th percentile per-packet one-way delay: 166.446 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 553.76 Mbit/s
95th percentile per-packet one-way delay: 166.446 ms
Loss rate: 0.48%
```

Run 8: Report of PCC — Data Link



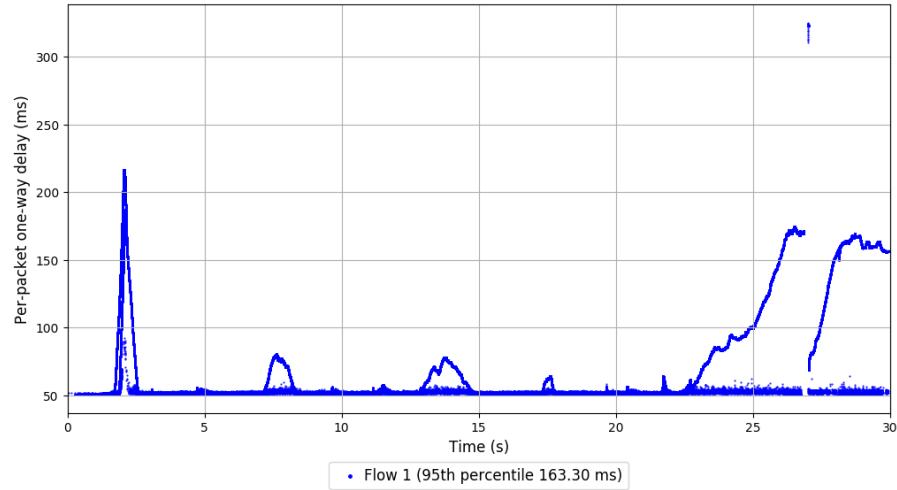
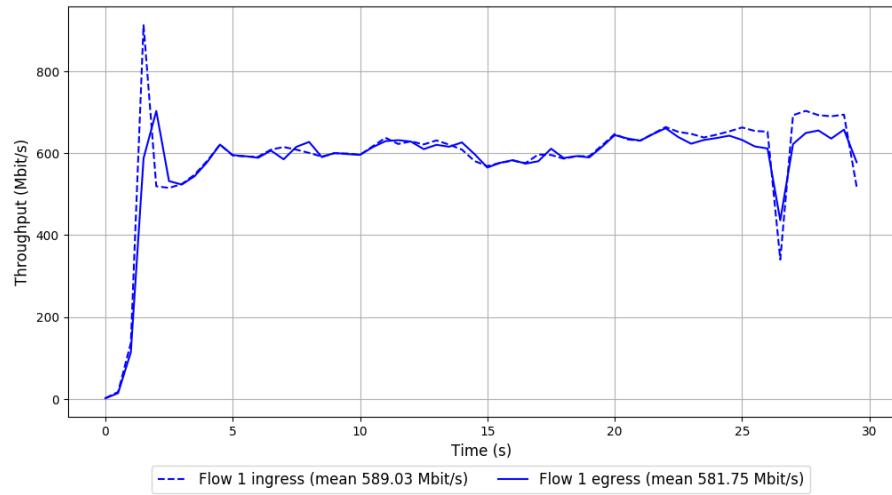
Run 9: Statistics of PCC

Start at: 2017-09-18 05:52:26

End at: 2017-09-18 05:52:56

```
# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 581.75 Mbit/s
95th percentile per-packet one-way delay: 163.298 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 581.75 Mbit/s
95th percentile per-packet one-way delay: 163.298 ms
Loss rate: 1.24%
```

Run 9: Report of PCC — Data Link



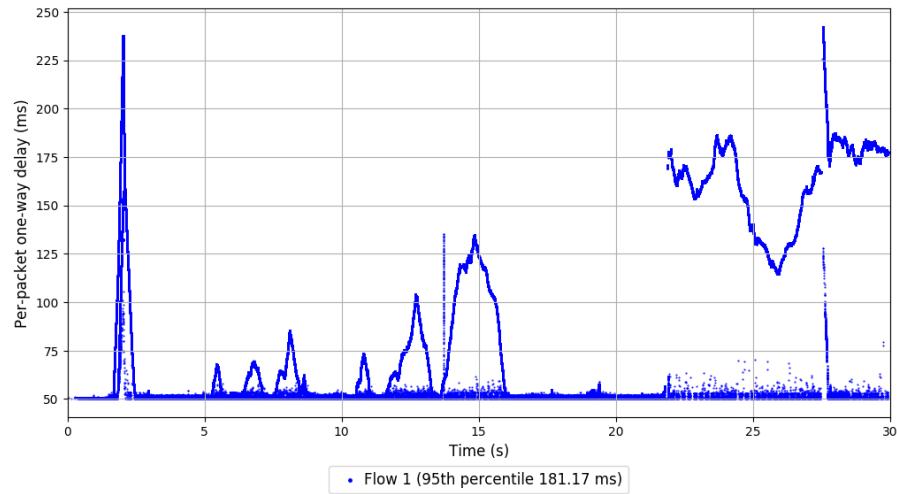
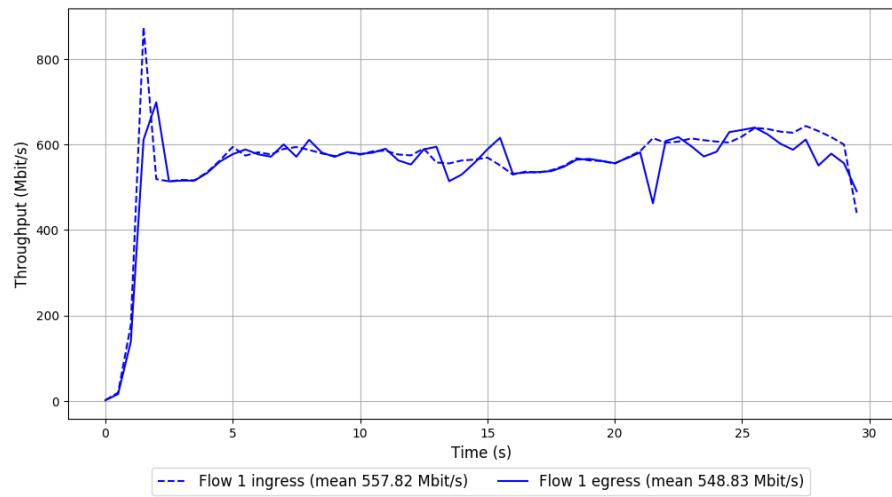
Run 10: Statistics of PCC

Start at: 2017-09-18 06:03:44

End at: 2017-09-18 06:04:14

```
# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 548.83 Mbit/s
95th percentile per-packet one-way delay: 181.166 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 548.83 Mbit/s
95th percentile per-packet one-way delay: 181.166 ms
Loss rate: 1.61%
```

Run 10: Report of PCC — Data Link



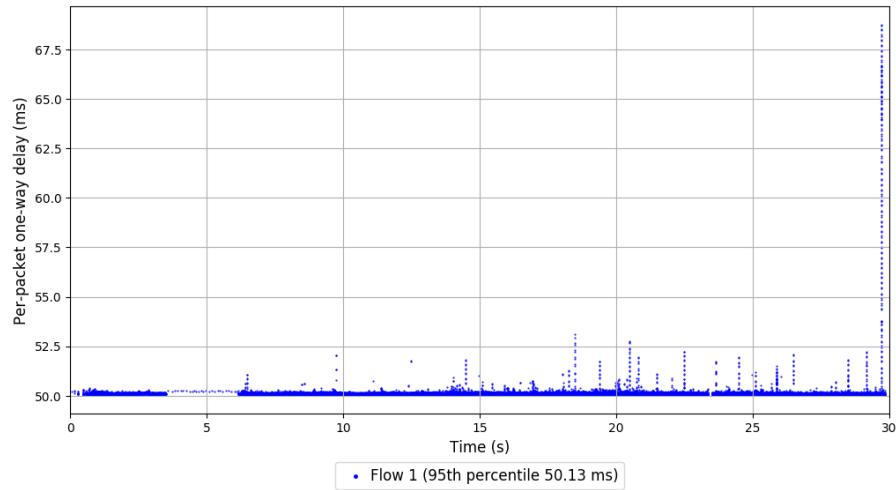
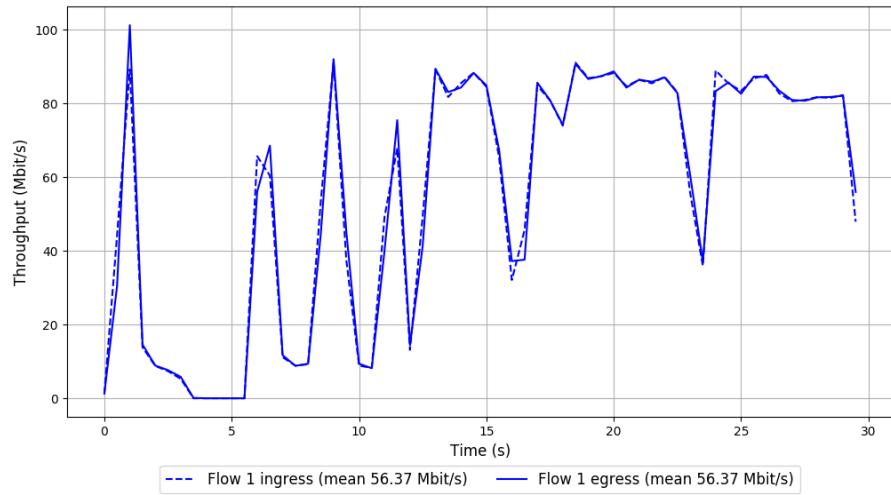
Run 1: Statistics of QUIC Cubic

Start at: 2017-09-18 04:23:59

End at: 2017-09-18 04:24:29

```
# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.37 Mbit/s
95th percentile per-packet one-way delay: 50.132 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.37 Mbit/s
95th percentile per-packet one-way delay: 50.132 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link



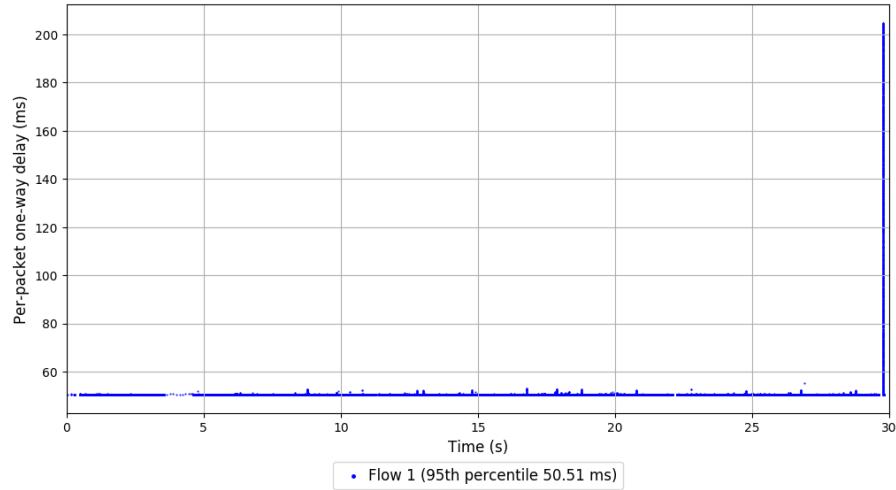
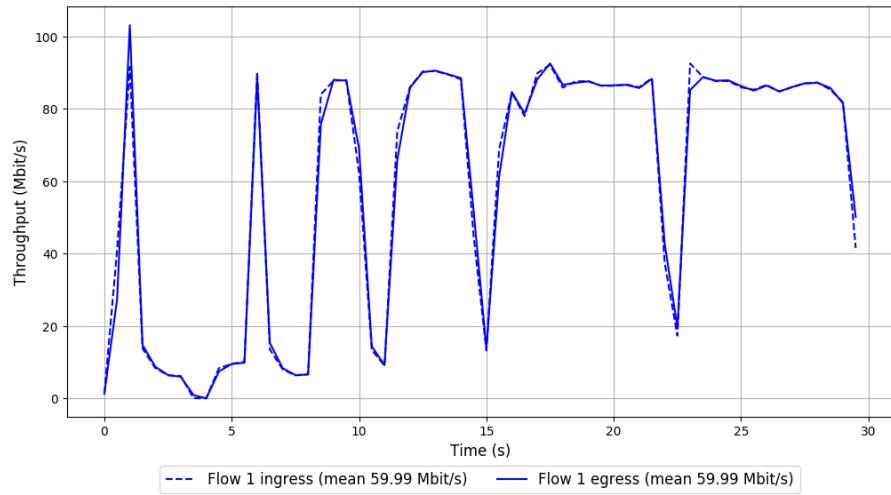
Run 2: Statistics of QUIC Cubic

Start at: 2017-09-18 04:35:00

End at: 2017-09-18 04:35:30

```
# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.99 Mbit/s
95th percentile per-packet one-way delay: 50.508 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.99 Mbit/s
95th percentile per-packet one-way delay: 50.508 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link

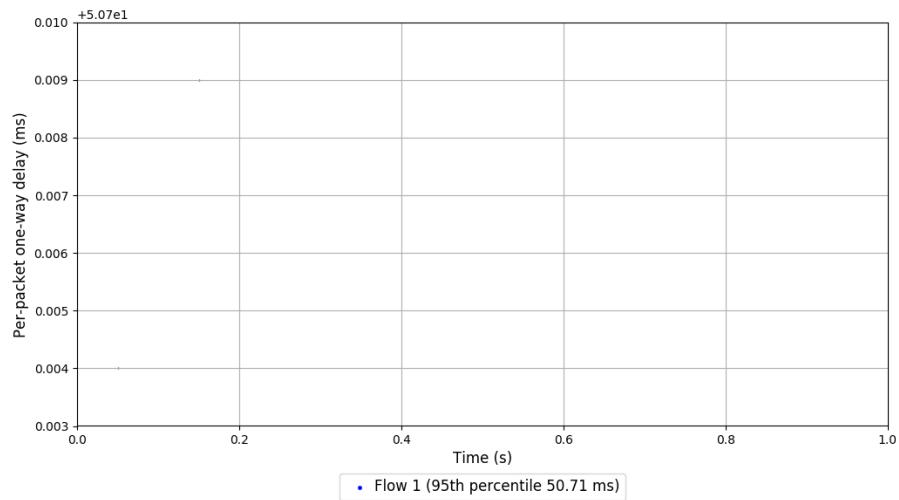
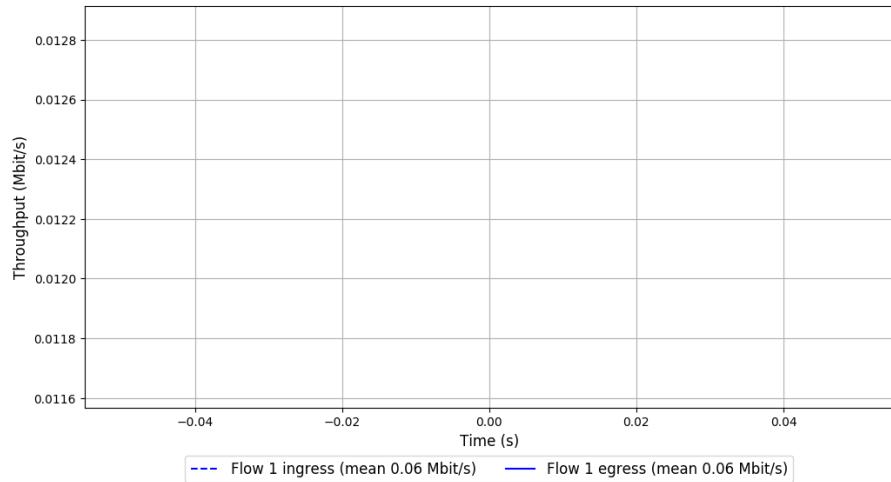


Run 3: Statistics of QUIC Cubic

Start at: 2017-09-18 04:46:16

End at: 2017-09-18 04:46:46

Run 3: Report of QUIC Cubic — Data Link



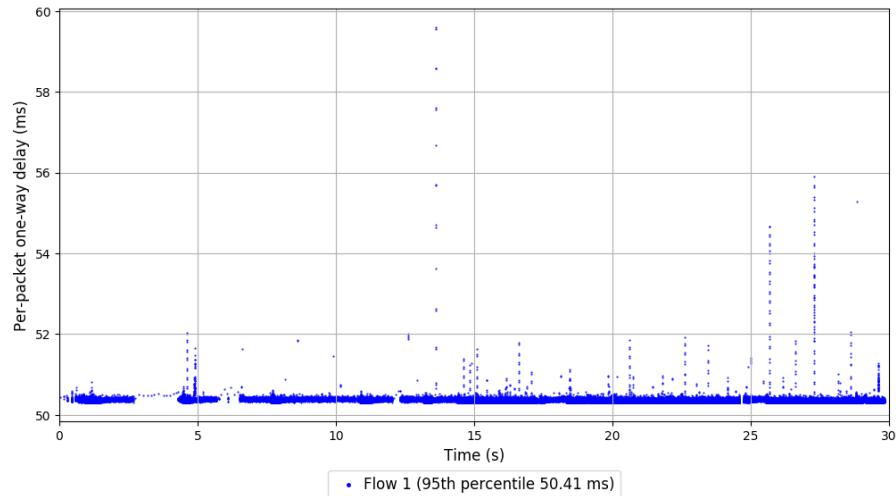
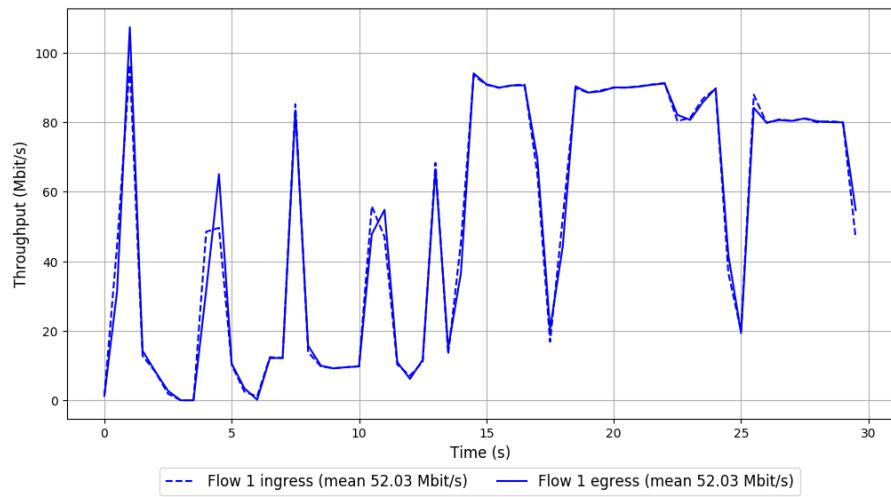
Run 4: Statistics of QUIC Cubic

Start at: 2017-09-18 04:57:14

End at: 2017-09-18 04:57:44

```
# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.03 Mbit/s
95th percentile per-packet one-way delay: 50.409 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 52.03 Mbit/s
95th percentile per-packet one-way delay: 50.409 ms
Loss rate: 0.00%
```

Run 4: Report of QUIC Cubic — Data Link

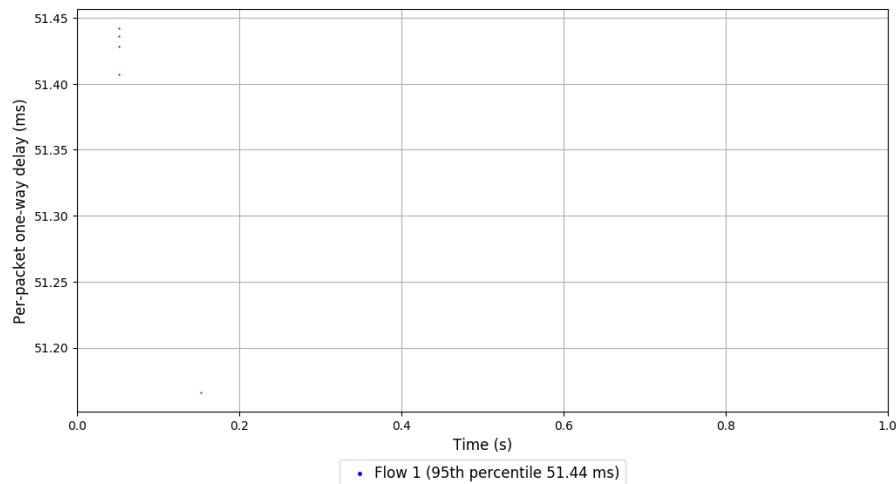
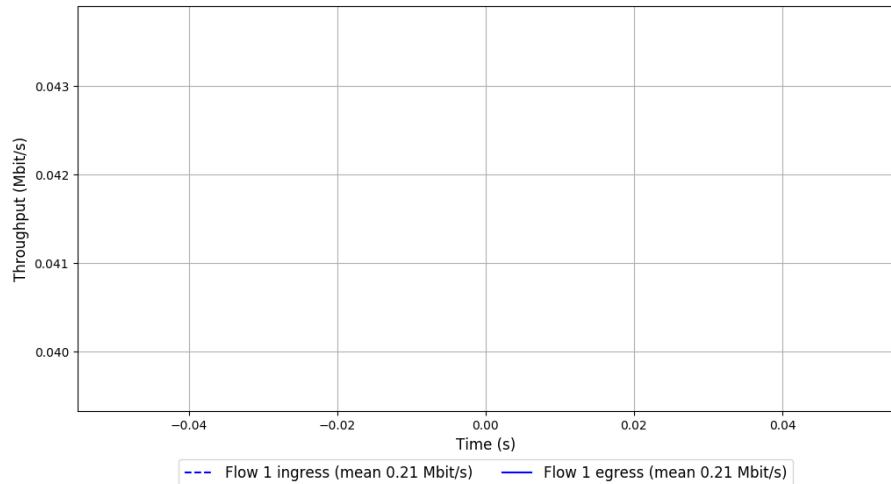


Run 5: Statistics of QUIC Cubic

Start at: 2017-09-18 05:08:32

End at: 2017-09-18 05:09:02

Run 5: Report of QUIC Cubic — Data Link

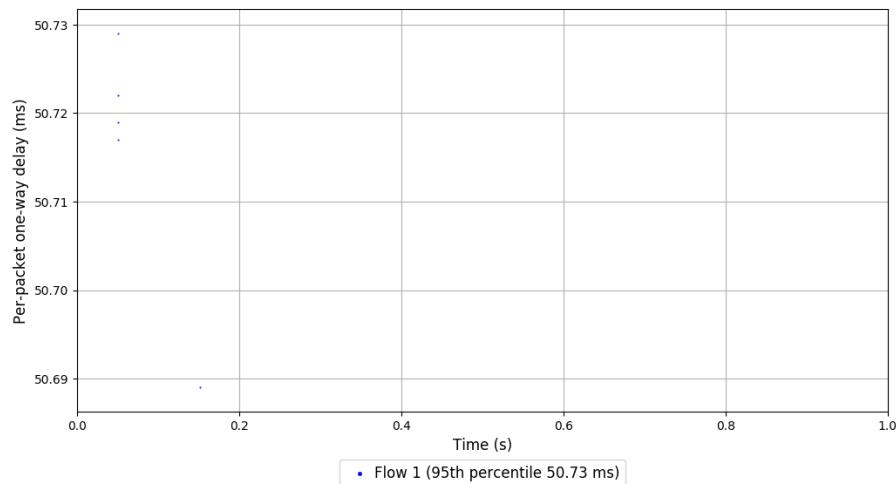
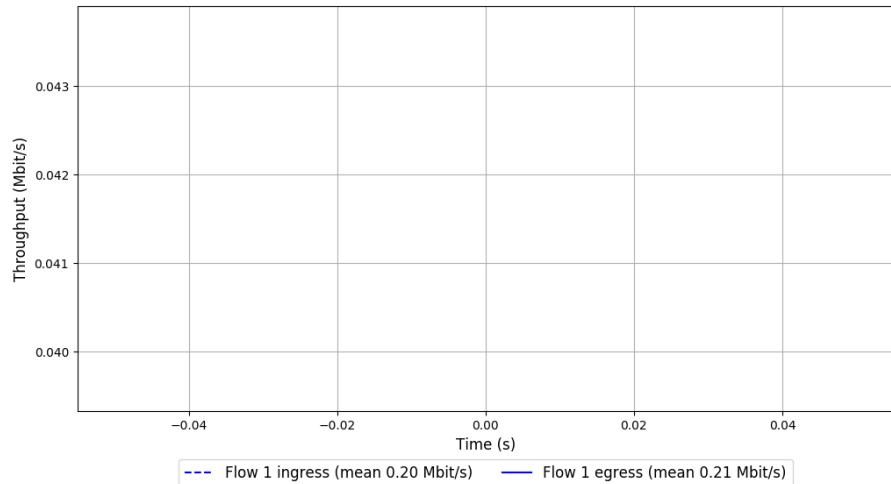


Run 6: Statistics of QUIC Cubic

Start at: 2017-09-18 05:19:37

End at: 2017-09-18 05:20:07

Run 6: Report of QUIC Cubic — Data Link



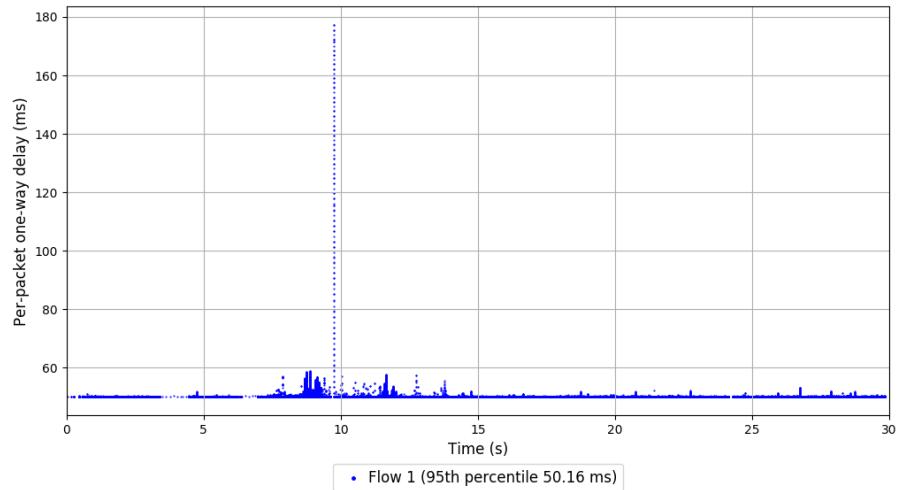
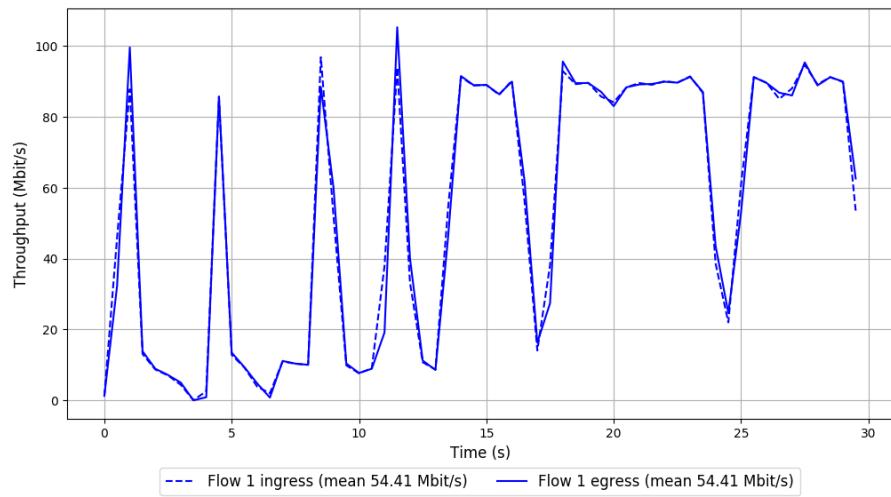
Run 7: Statistics of QUIC Cubic

Start at: 2017-09-18 05:30:50

End at: 2017-09-18 05:31:20

```
# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.41 Mbit/s
95th percentile per-packet one-way delay: 50.155 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 54.41 Mbit/s
95th percentile per-packet one-way delay: 50.155 ms
Loss rate: 0.00%
```

Run 7: Report of QUIC Cubic — Data Link

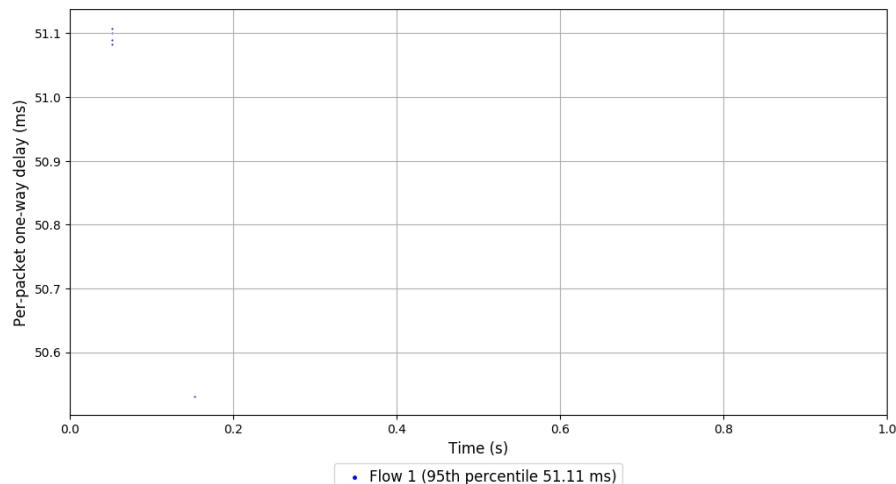
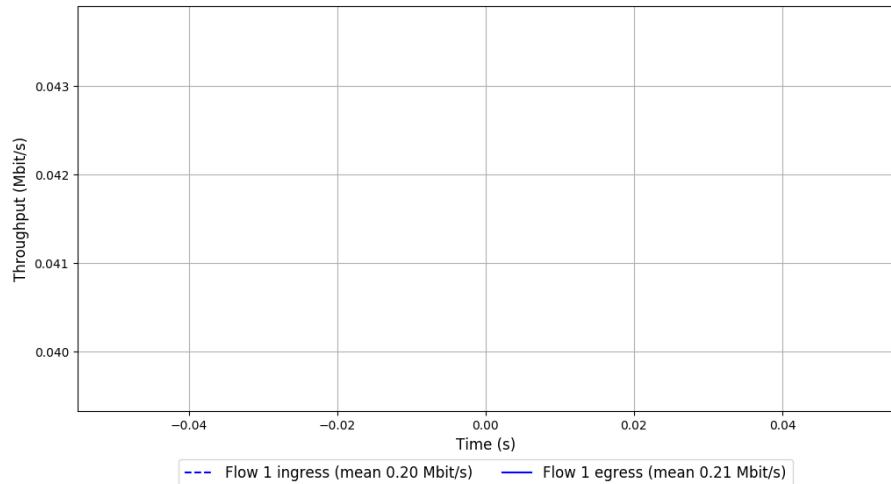


Run 8: Statistics of QUIC Cubic

Start at: 2017-09-18 05:42:06

End at: 2017-09-18 05:42:36

Run 8: Report of QUIC Cubic — Data Link

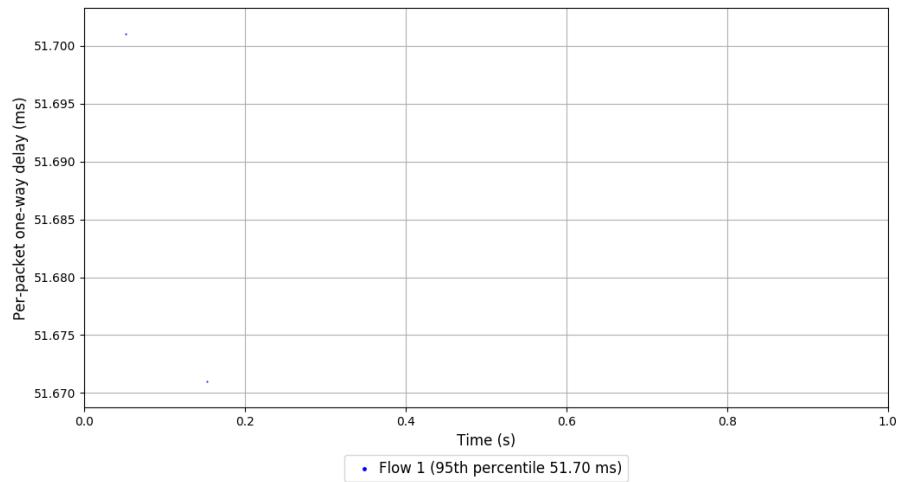
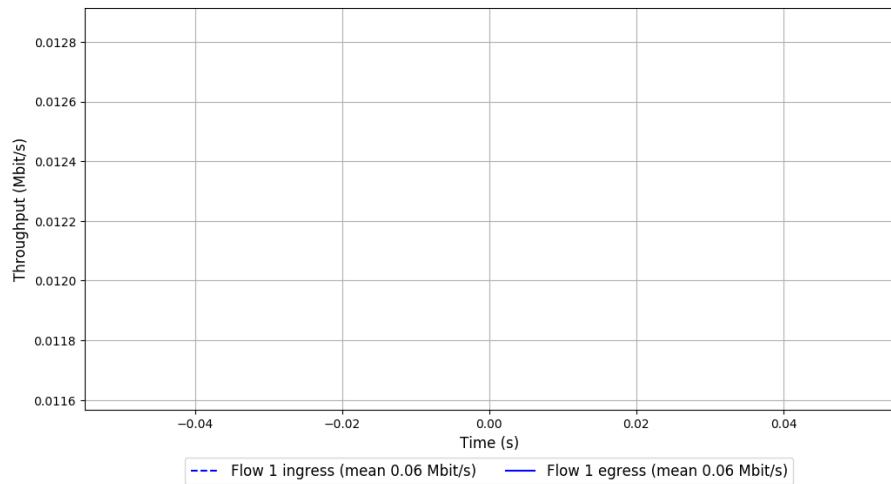


Run 9: Statistics of QUIC Cubic

Start at: 2017-09-18 05:53:24

End at: 2017-09-18 05:53:54

Run 9: Report of QUIC Cubic — Data Link

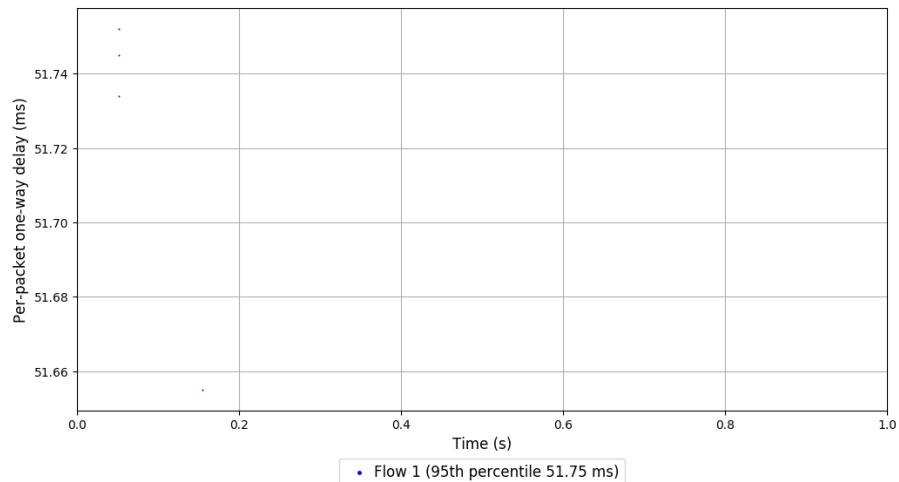
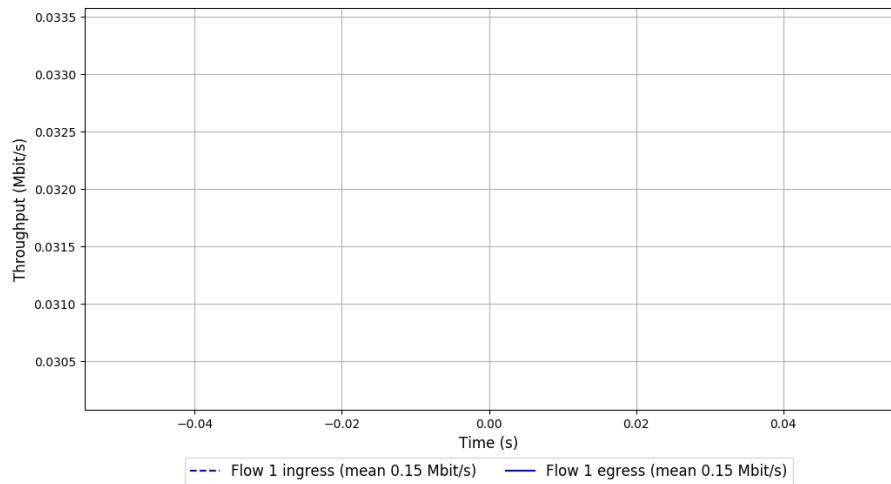


Run 10: Statistics of QUIC Cubic

Start at: 2017-09-18 06:04:41

End at: 2017-09-18 06:05:11

Run 10: Report of QUIC Cubic — Data Link

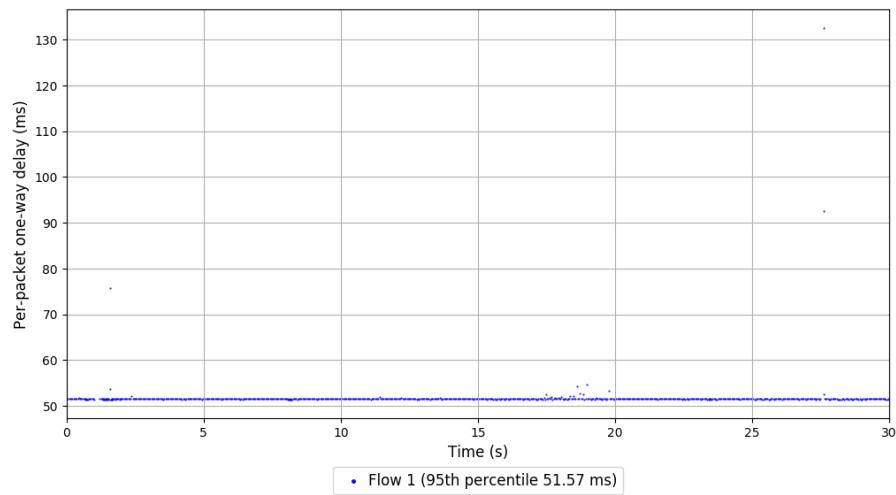
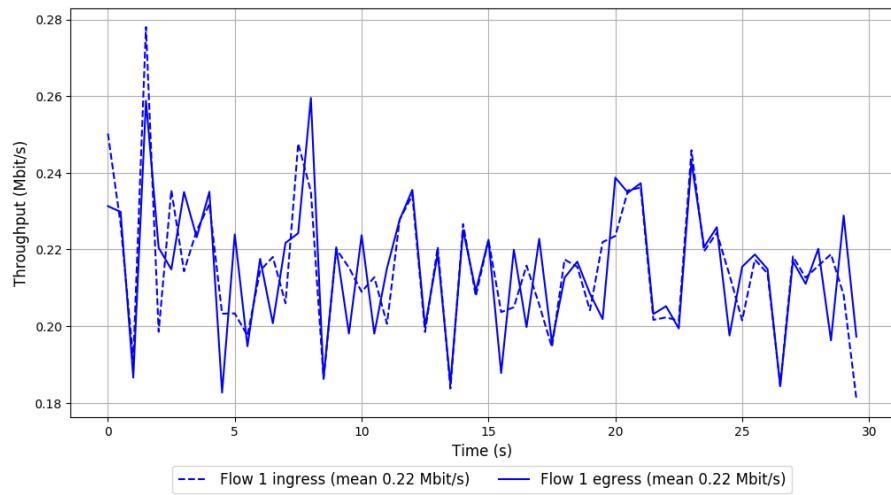


```
Run 1: Statistics of SCReAM

Start at: 2017-09-18 04:27:26
End at: 2017-09-18 04:27:56

# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.573 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.573 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link



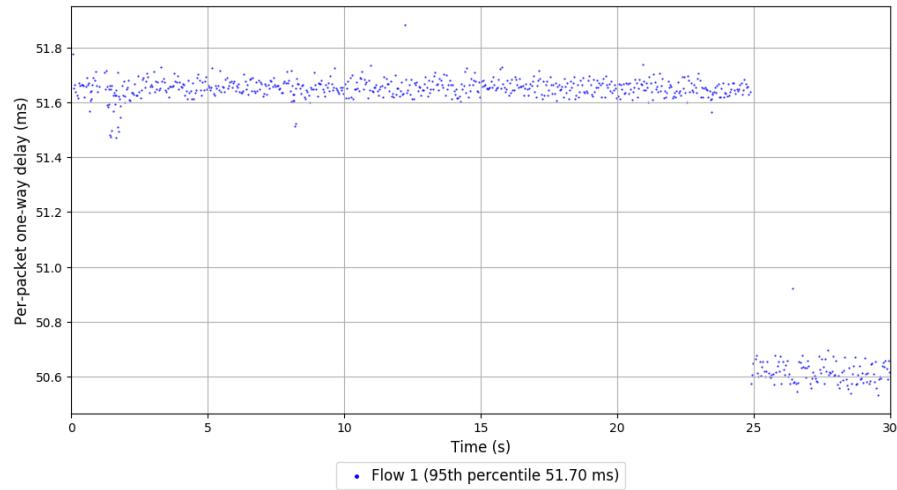
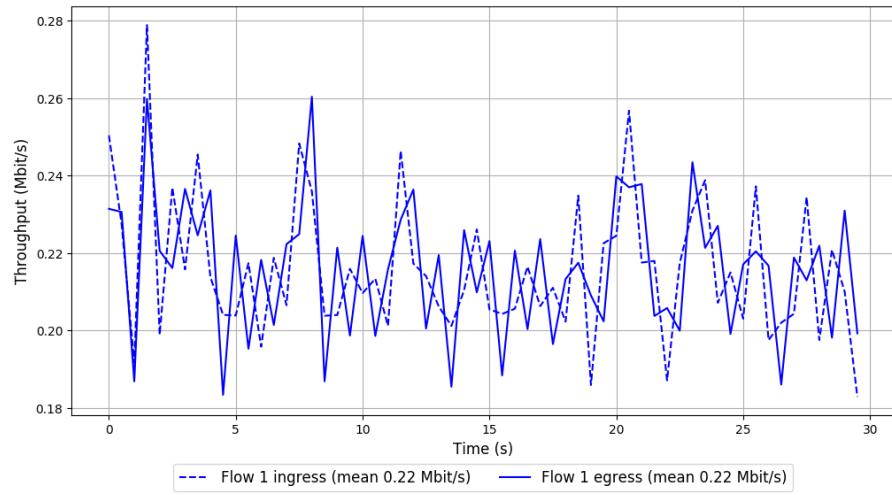
Run 2: Statistics of SCReAM

Start at: 2017-09-18 04:38:28

End at: 2017-09-18 04:38:58

```
# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.697 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.697 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link



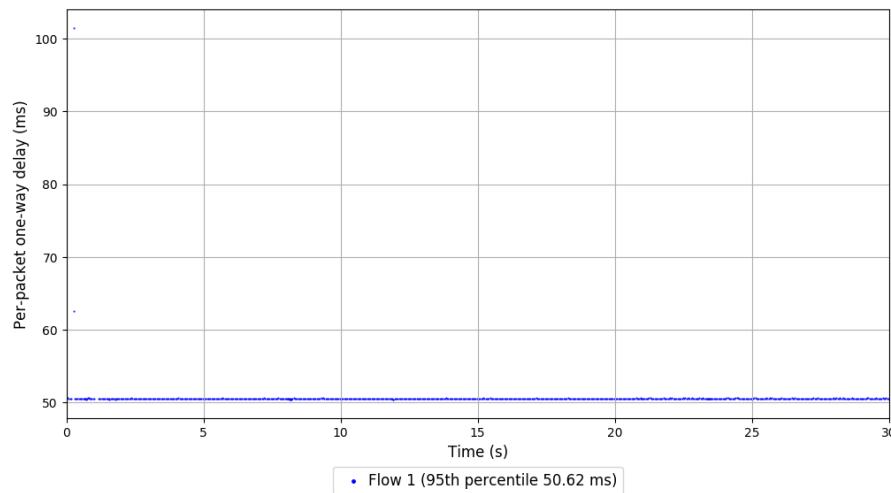
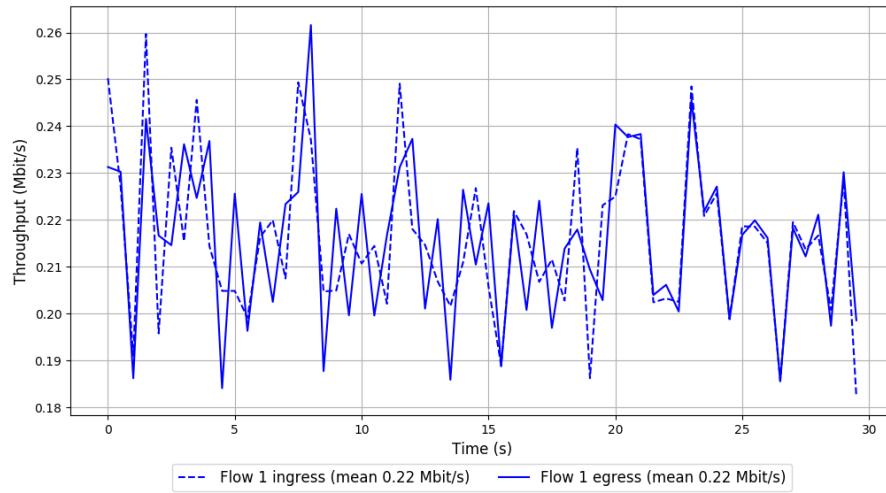
Run 3: Statistics of SCReAM

Start at: 2017-09-18 04:49:40

End at: 2017-09-18 04:50:10

```
# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.615 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.615 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link



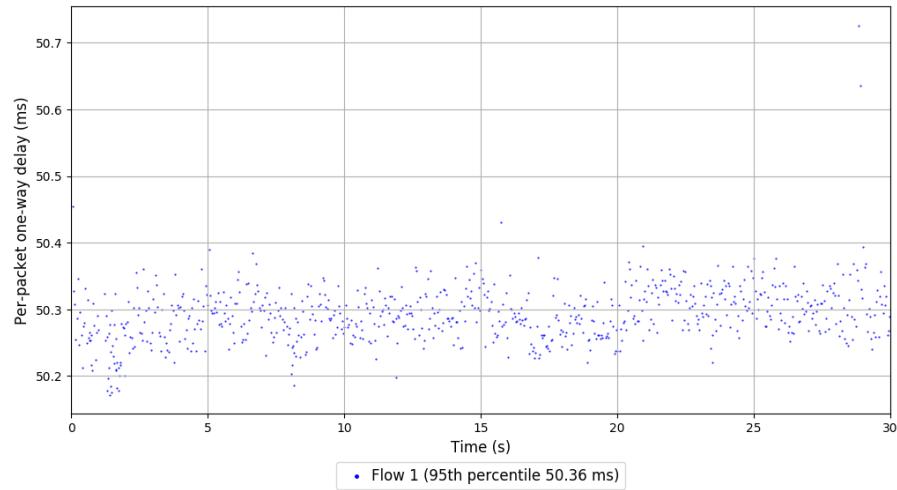
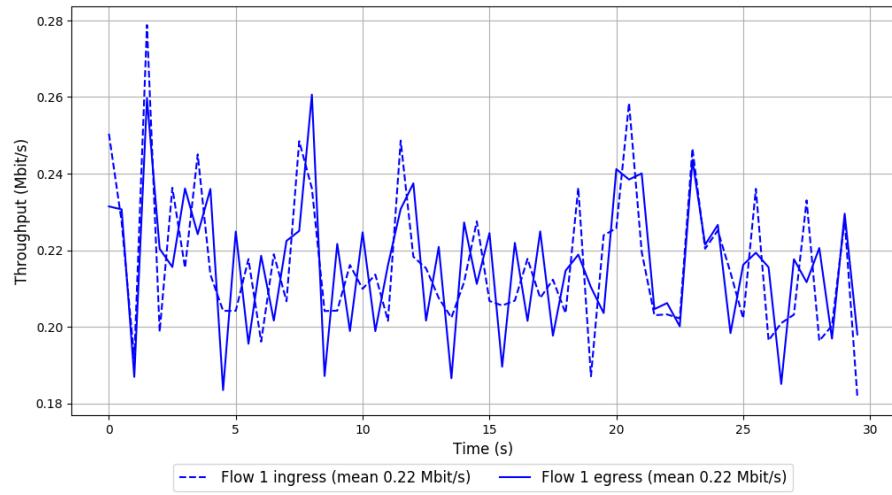
Run 4: Statistics of SCReAM

Start at: 2017-09-18 05:00:40

End at: 2017-09-18 05:01:10

```
# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.358 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.358 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link



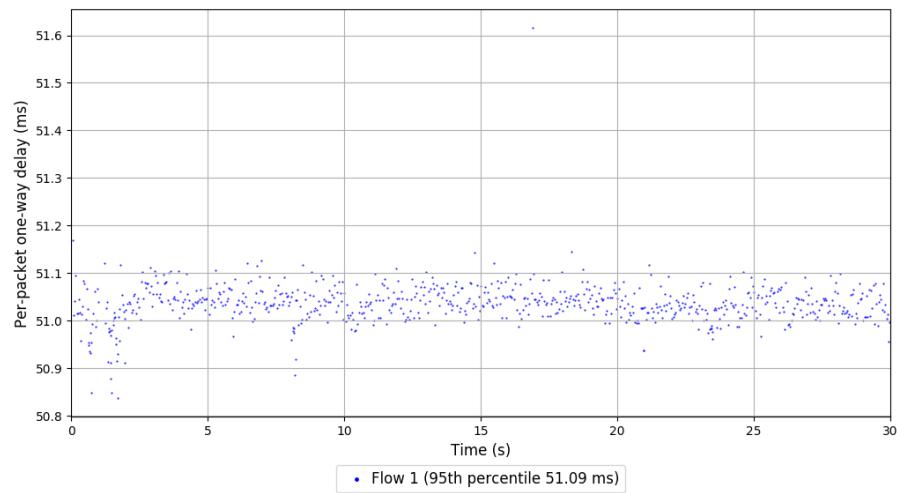
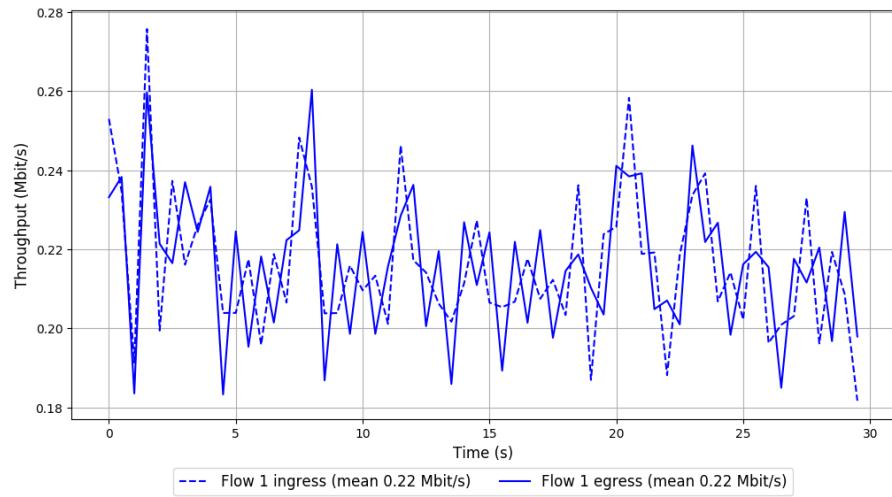
Run 5: Statistics of SCReAM

Start at: 2017-09-18 05:11:59

End at: 2017-09-18 05:12:29

```
# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.093 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.093 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link



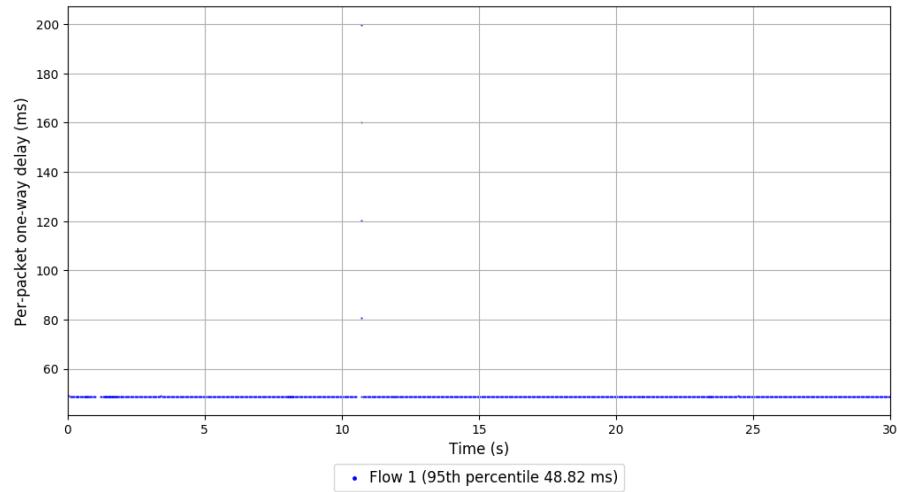
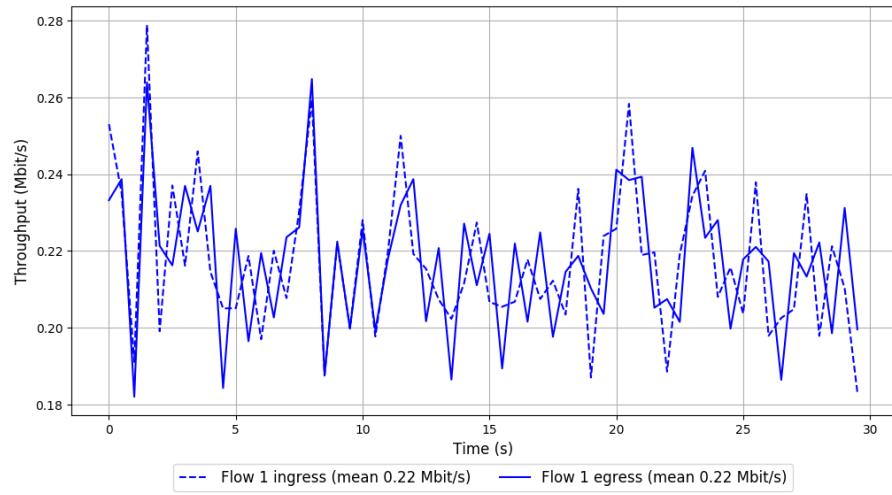
Run 6: Statistics of SCReAM

Start at: 2017-09-18 05:23:01

End at: 2017-09-18 05:23:31

```
# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.823 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.823 ms
Loss rate: 0.00%
```

Run 6: Report of SCReAM — Data Link



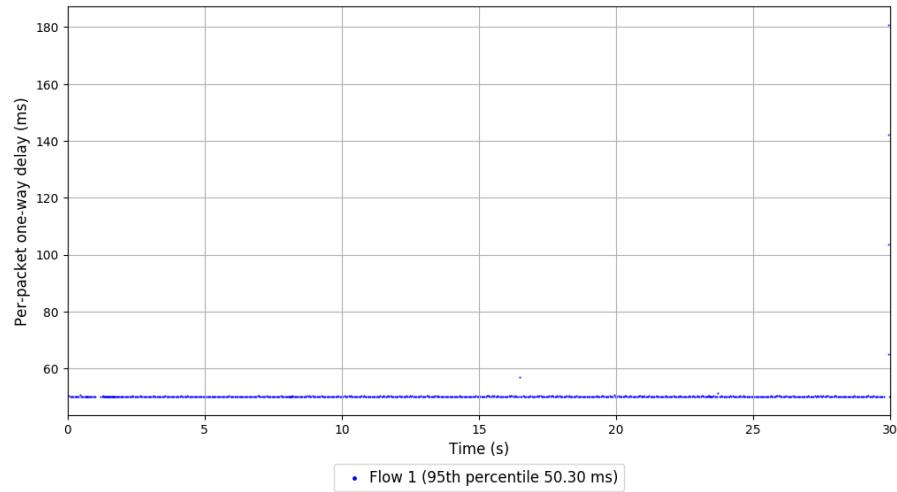
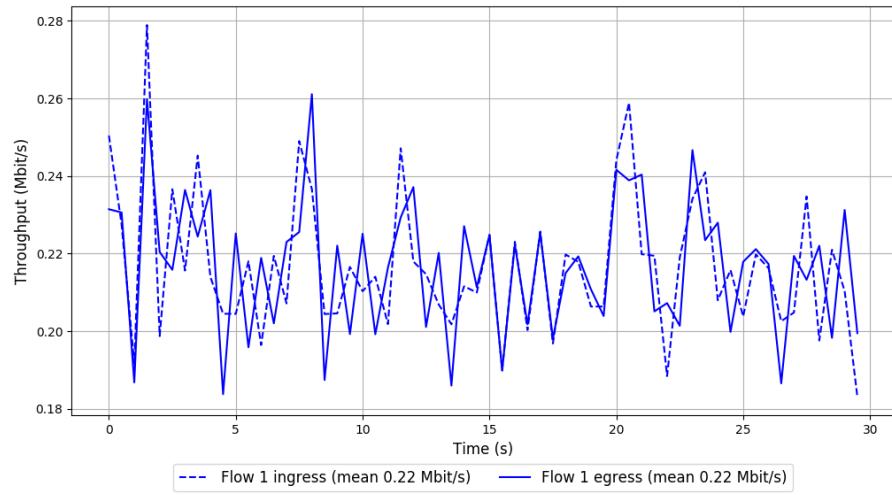
Run 7: Statistics of SCReAM

Start at: 2017-09-18 05:34:18

End at: 2017-09-18 05:34:48

```
# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.304 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.304 ms
Loss rate: 0.00%
```

Run 7: Report of SCReAM — Data Link



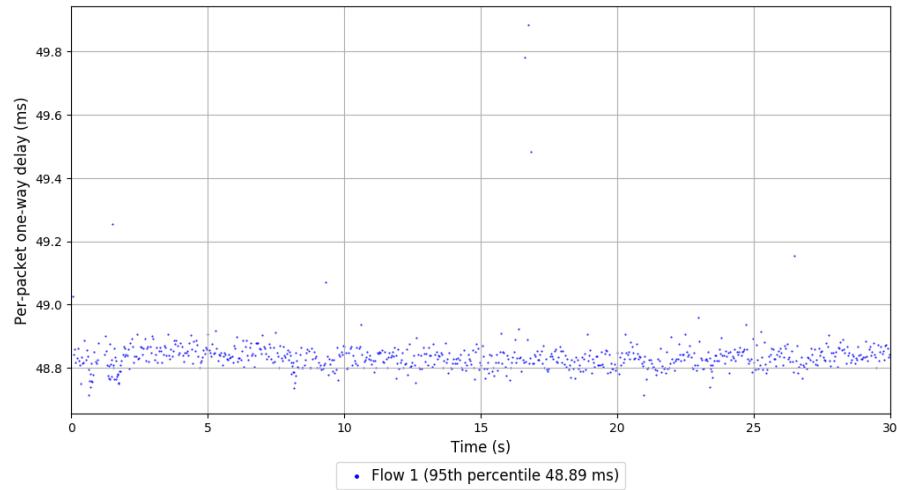
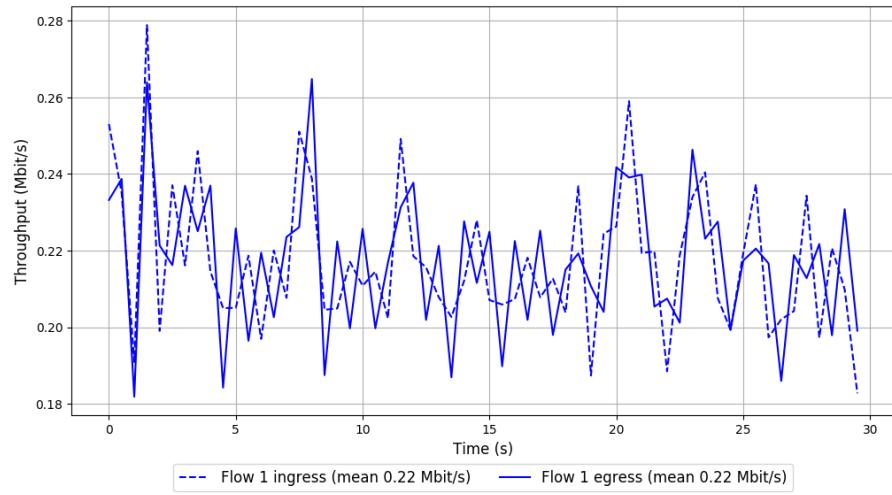
Run 8: Statistics of SCReAM

Start at: 2017-09-18 05:45:30

End at: 2017-09-18 05:46:00

```
# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.887 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.887 ms
Loss rate: 0.00%
```

Run 8: Report of SCReAM — Data Link



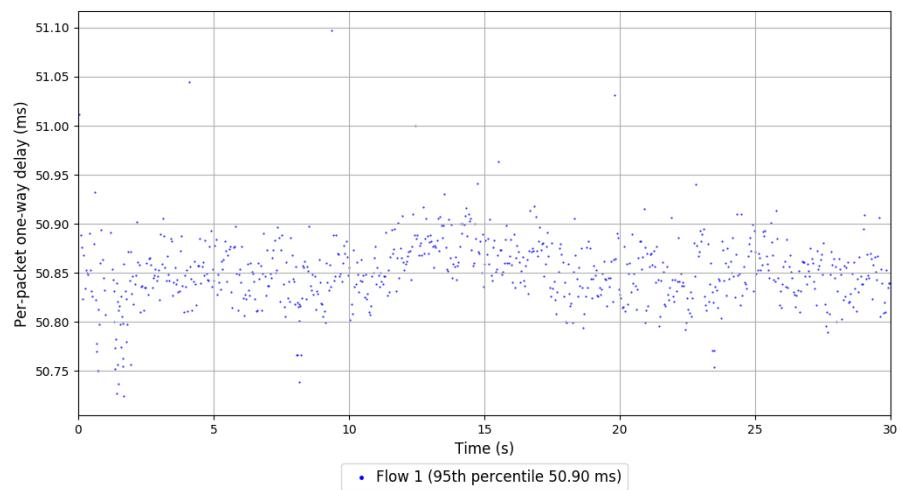
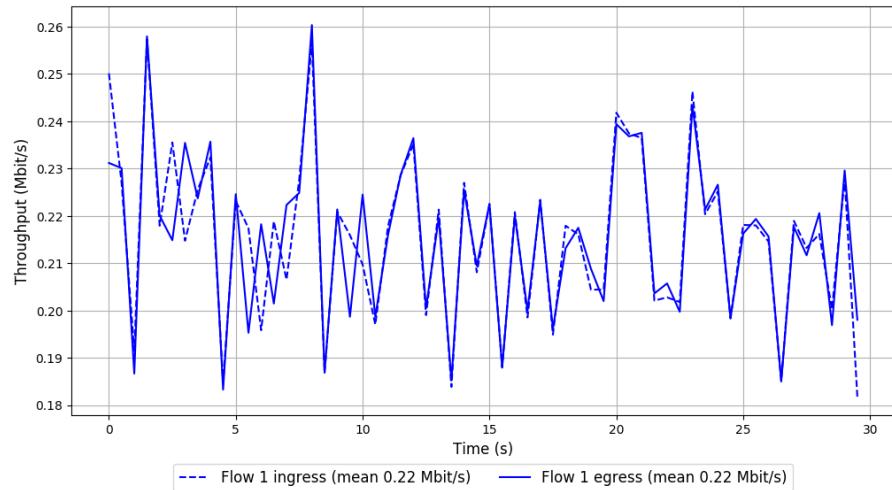
Run 9: Statistics of SCReAM

Start at: 2017-09-18 05:56:49

End at: 2017-09-18 05:57:19

```
# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.900 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.900 ms
Loss rate: 0.00%
```

Run 9: Report of SCReAM — Data Link



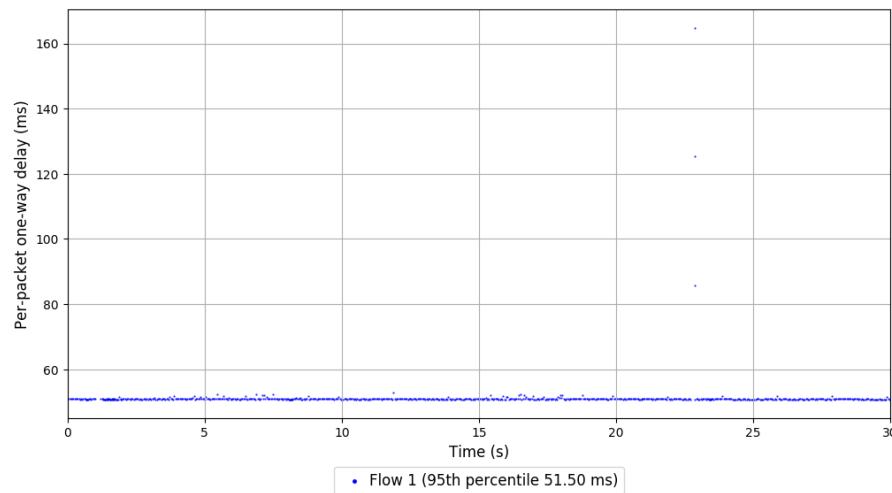
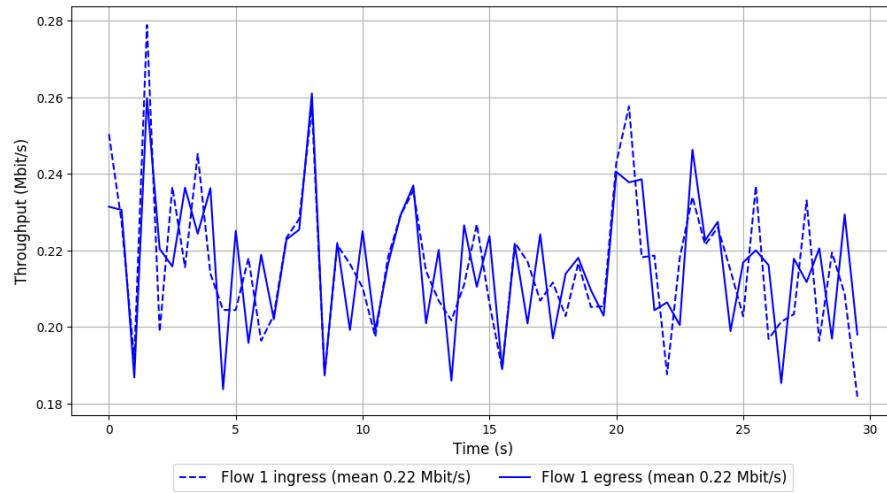
Run 10: Statistics of SCReAM

Start at: 2017-09-18 06:08:05

End at: 2017-09-18 06:08:35

```
# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.504 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.504 ms
Loss rate: 0.00%
```

Run 10: Report of SCReAM — Data Link



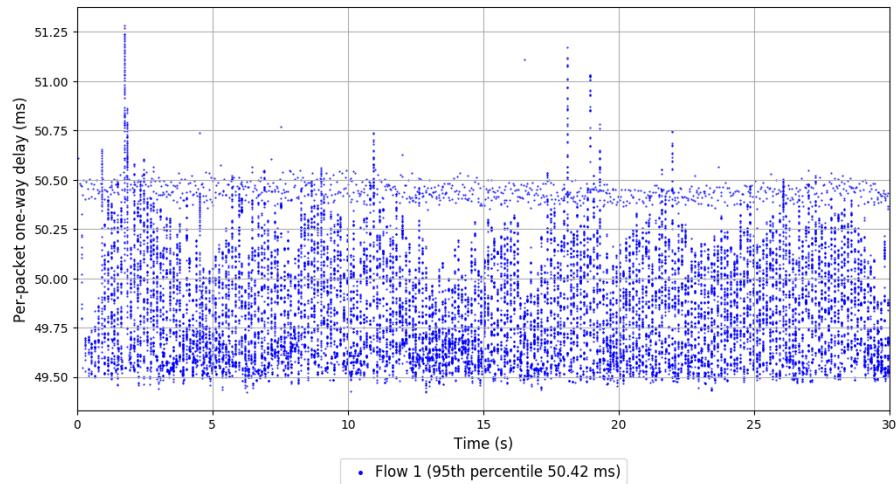
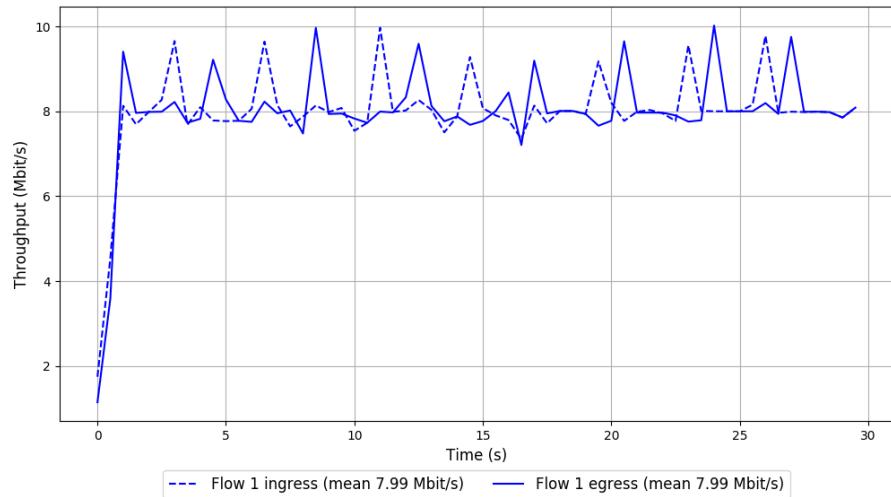
Run 1: Statistics of Sprout

Start at: 2017-09-18 04:22:25

End at: 2017-09-18 04:22:55

```
# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 50.419 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 50.419 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



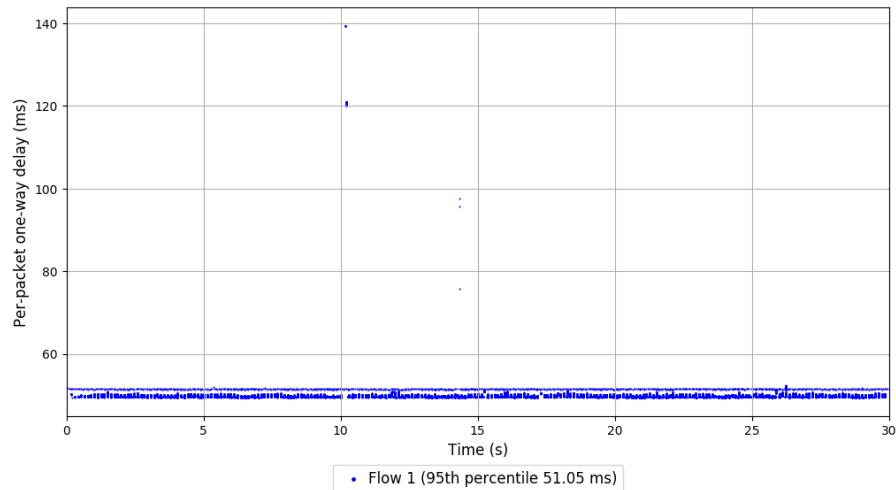
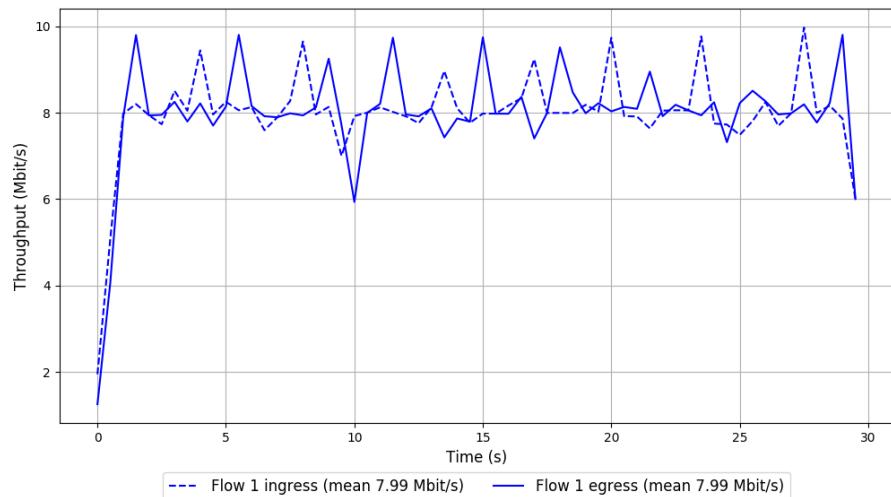
Run 2: Statistics of Sprout

Start at: 2017-09-18 04:33:26

End at: 2017-09-18 04:33:56

```
# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 51.055 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 51.055 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link



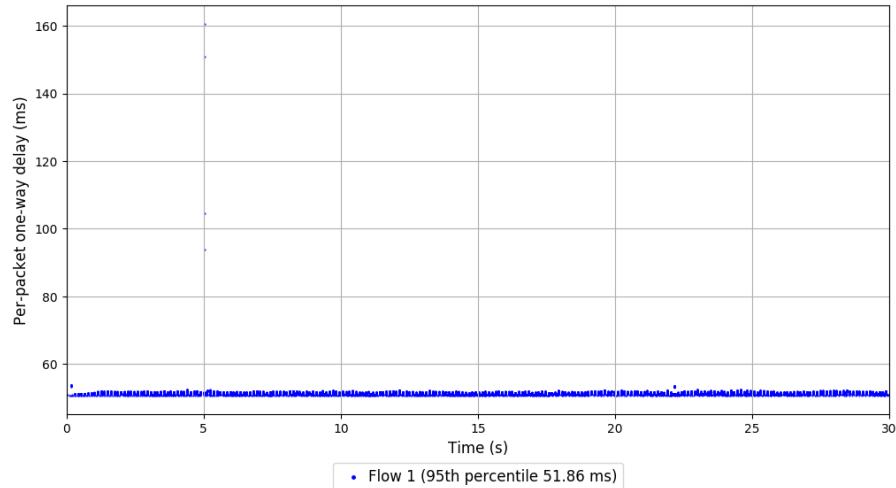
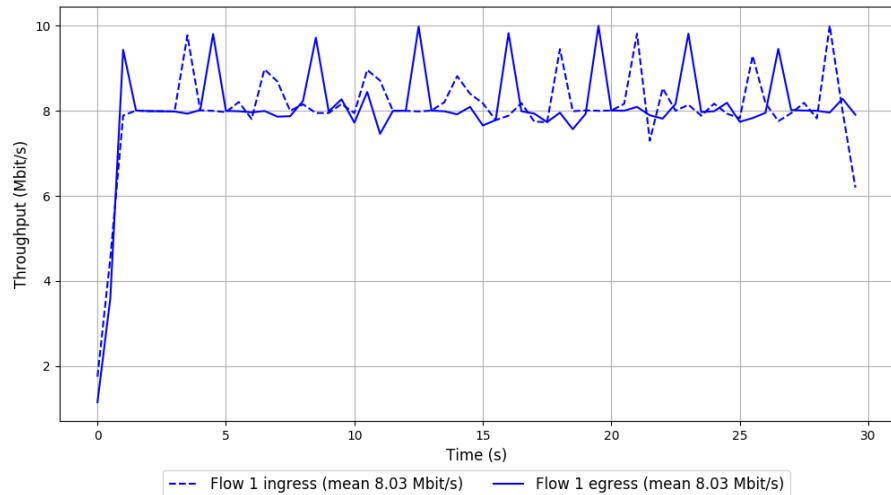
Run 3: Statistics of Sprout

Start at: 2017-09-18 04:44:43

End at: 2017-09-18 04:45:13

```
# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.03 Mbit/s
95th percentile per-packet one-way delay: 51.856 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 8.03 Mbit/s
95th percentile per-packet one-way delay: 51.856 ms
Loss rate: 0.01%
```

Run 3: Report of Sprout — Data Link



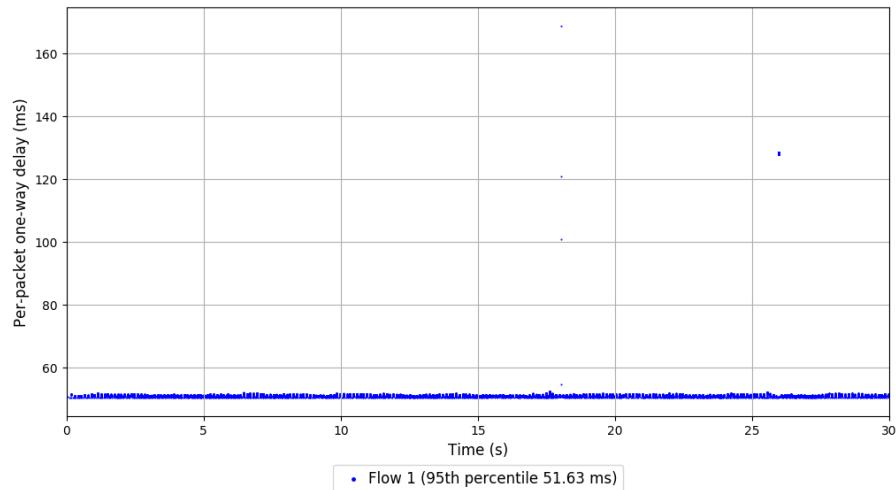
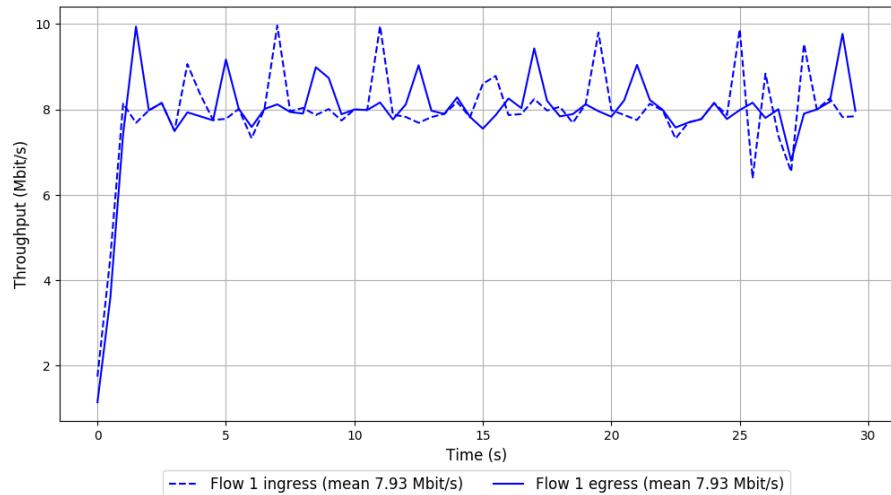
Run 4: Statistics of Sprout

Start at: 2017-09-18 04:55:40

End at: 2017-09-18 04:56:10

```
# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.93 Mbit/s
95th percentile per-packet one-way delay: 51.632 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 7.93 Mbit/s
95th percentile per-packet one-way delay: 51.632 ms
Loss rate: 0.01%
```

Run 4: Report of Sprout — Data Link



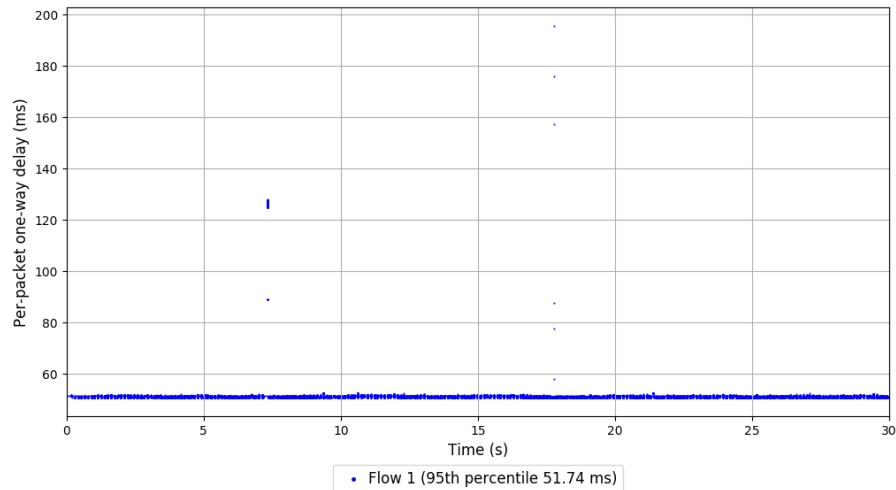
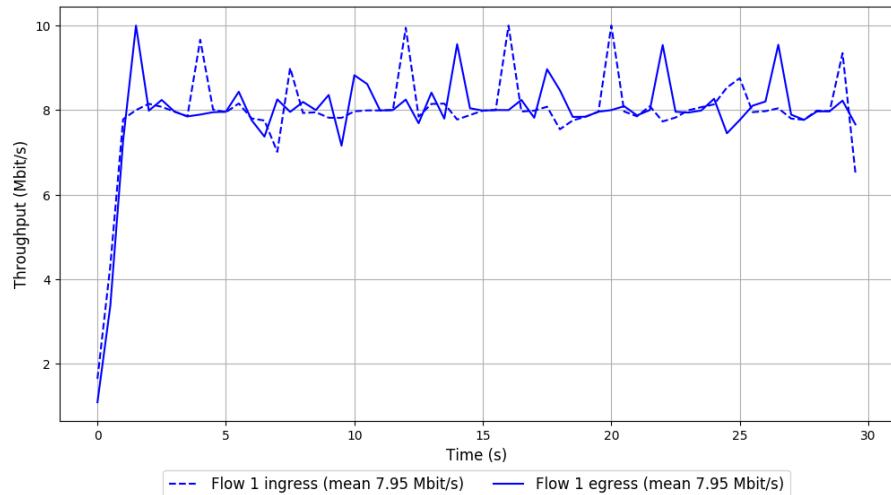
Run 5: Statistics of Sprout

Start at: 2017-09-18 05:06:59

End at: 2017-09-18 05:07:29

```
# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.95 Mbit/s
95th percentile per-packet one-way delay: 51.738 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 7.95 Mbit/s
95th percentile per-packet one-way delay: 51.738 ms
Loss rate: 0.04%
```

Run 5: Report of Sprout — Data Link



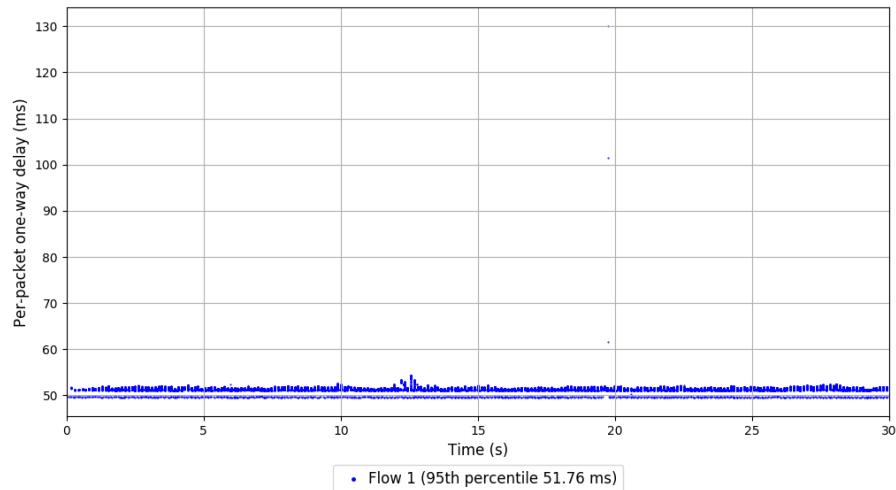
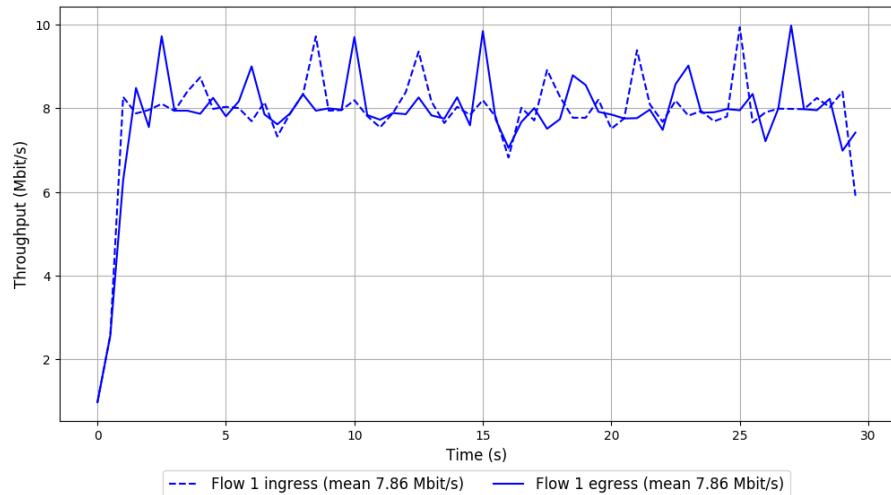
Run 6: Statistics of Sprout

Start at: 2017-09-18 05:18:03

End at: 2017-09-18 05:18:33

```
# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.86 Mbit/s
95th percentile per-packet one-way delay: 51.758 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 7.86 Mbit/s
95th percentile per-packet one-way delay: 51.758 ms
Loss rate: 0.04%
```

Run 6: Report of Sprout — Data Link



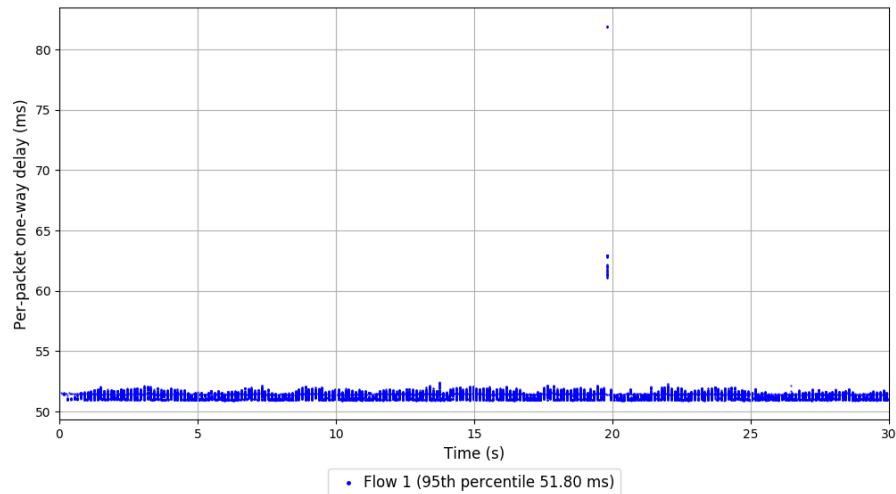
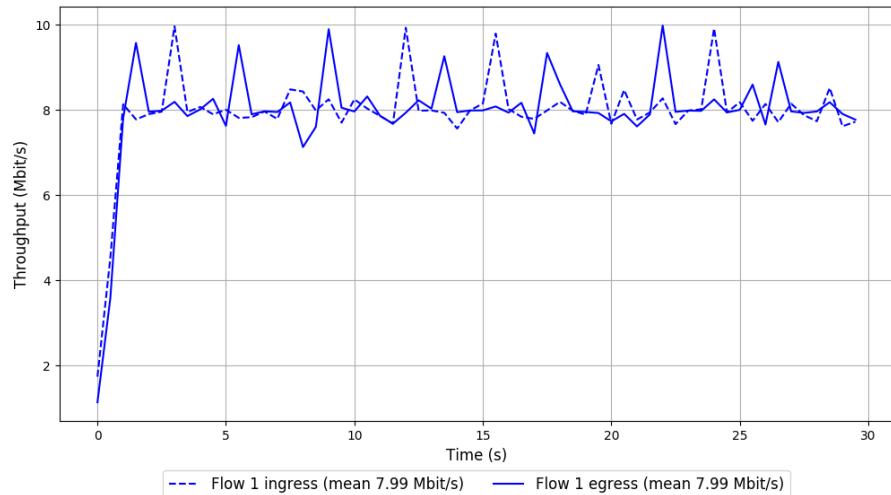
Run 7: Statistics of Sprout

Start at: 2017-09-18 05:29:16

End at: 2017-09-18 05:29:46

```
# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 51.804 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 51.804 ms
Loss rate: 0.00%
```

Run 7: Report of Sprout — Data Link



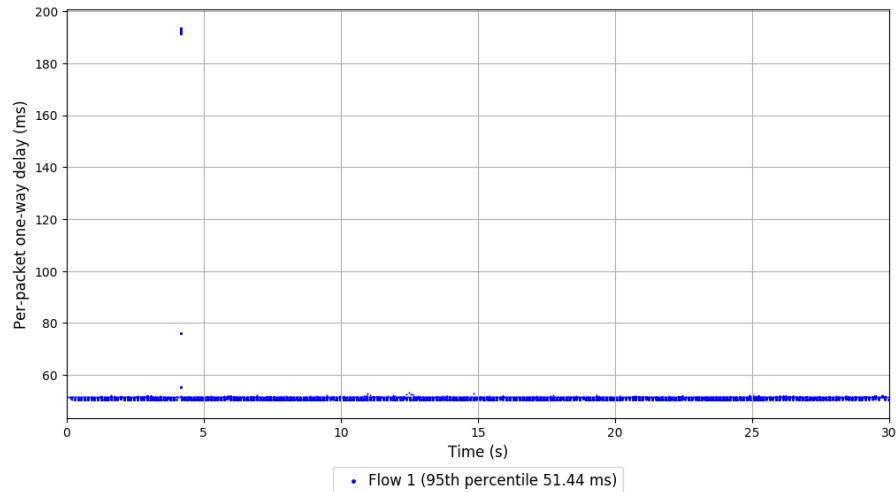
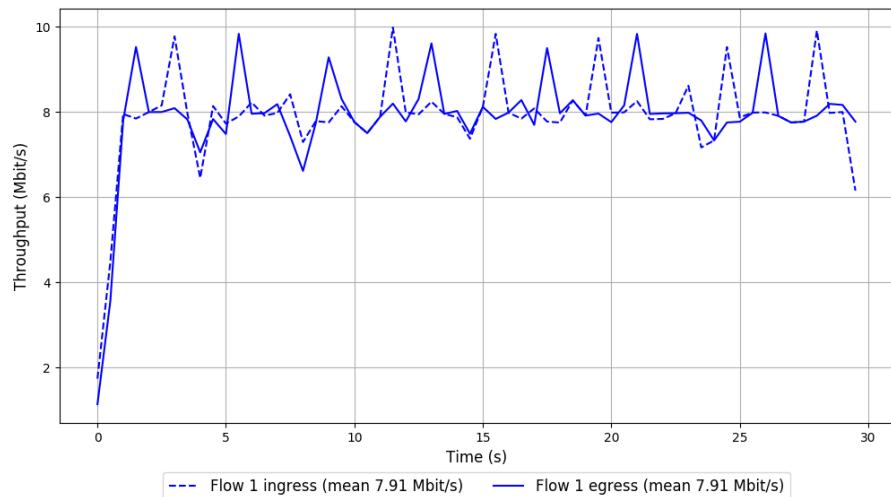
Run 8: Statistics of Sprout

Start at: 2017-09-18 05:40:32

End at: 2017-09-18 05:41:02

```
# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.91 Mbit/s
95th percentile per-packet one-way delay: 51.441 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 7.91 Mbit/s
95th percentile per-packet one-way delay: 51.441 ms
Loss rate: 0.01%
```

Run 8: Report of Sprout — Data Link



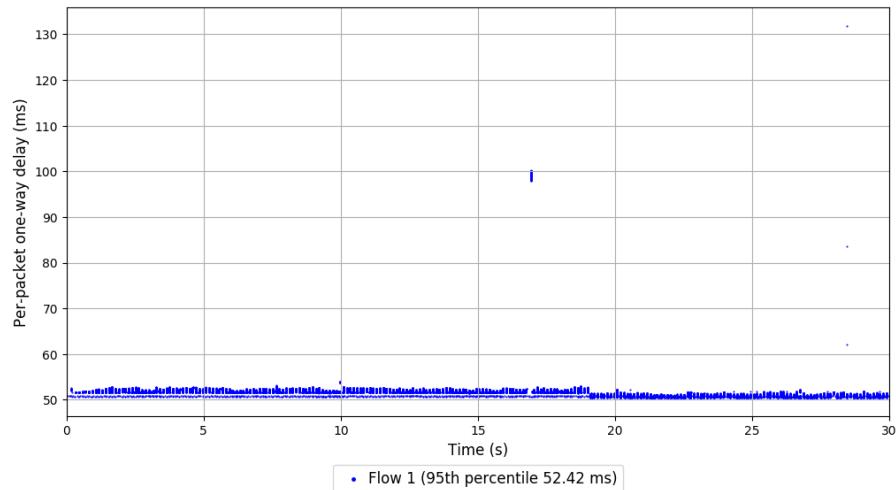
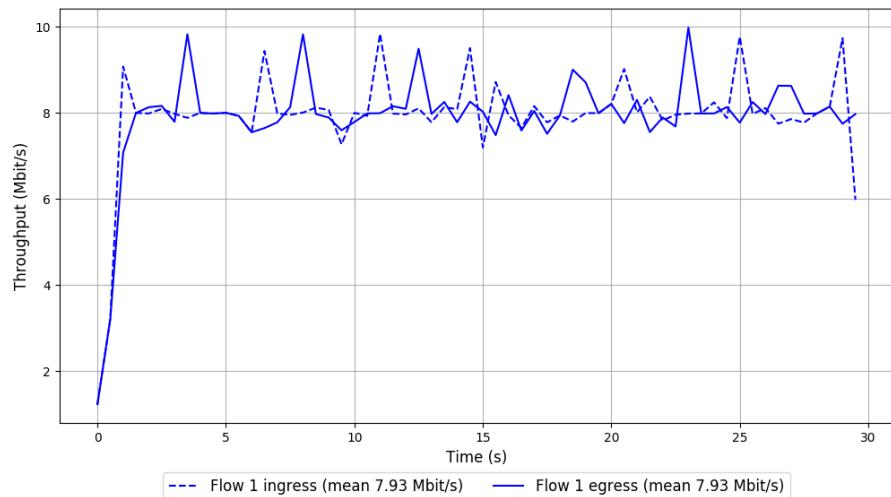
Run 9: Statistics of Sprout

Start at: 2017-09-18 05:51:49

End at: 2017-09-18 05:52:19

```
# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.93 Mbit/s
95th percentile per-packet one-way delay: 52.424 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.93 Mbit/s
95th percentile per-packet one-way delay: 52.424 ms
Loss rate: 0.00%
```

Run 9: Report of Sprout — Data Link



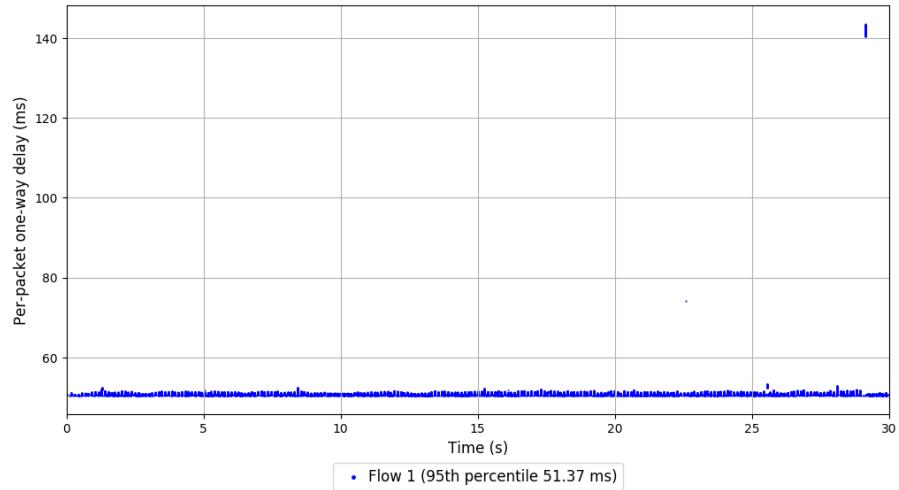
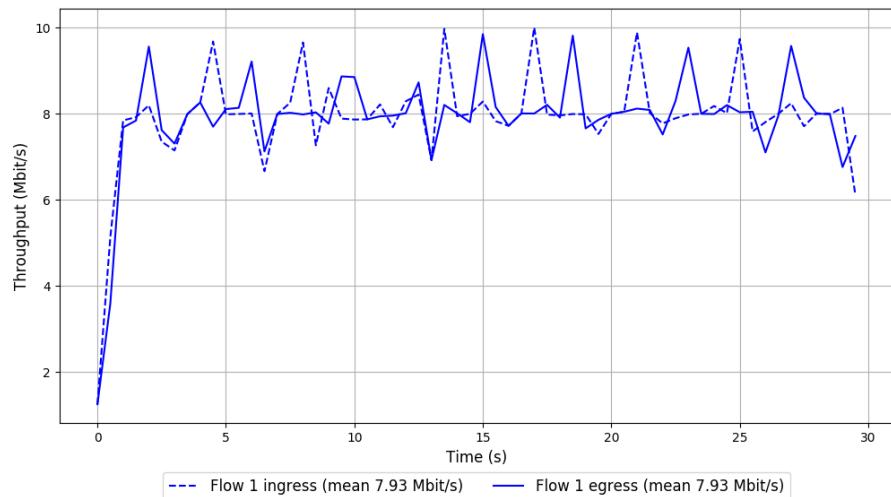
Run 10: Statistics of Sprout

Start at: 2017-09-18 06:03:07

End at: 2017-09-18 06:03:37

```
# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.93 Mbit/s
95th percentile per-packet one-way delay: 51.371 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 7.93 Mbit/s
95th percentile per-packet one-way delay: 51.371 ms
Loss rate: 0.01%
```

Run 10: Report of Sprout — Data Link



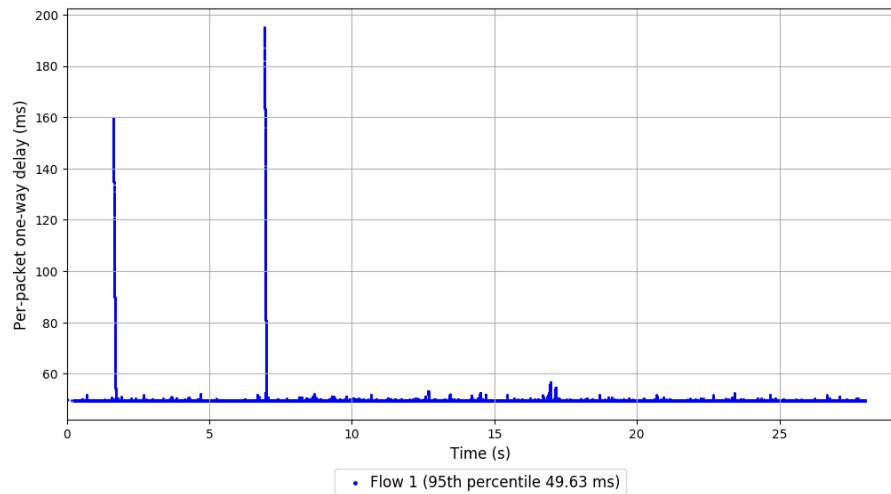
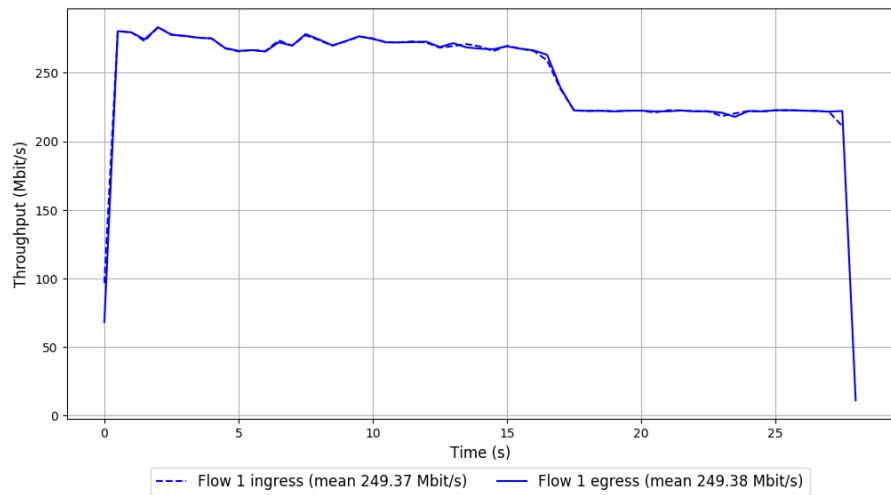
Run 1: Statistics of TaoVA-100x

Start at: 2017-09-18 04:28:02

End at: 2017-09-18 04:28:33

```
# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 249.38 Mbit/s
95th percentile per-packet one-way delay: 49.634 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 249.38 Mbit/s
95th percentile per-packet one-way delay: 49.634 ms
Loss rate: 0.00%
```

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



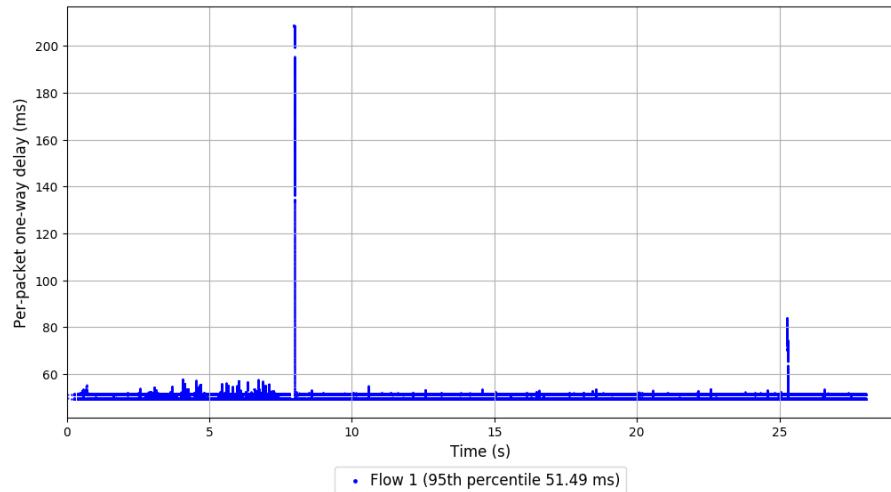
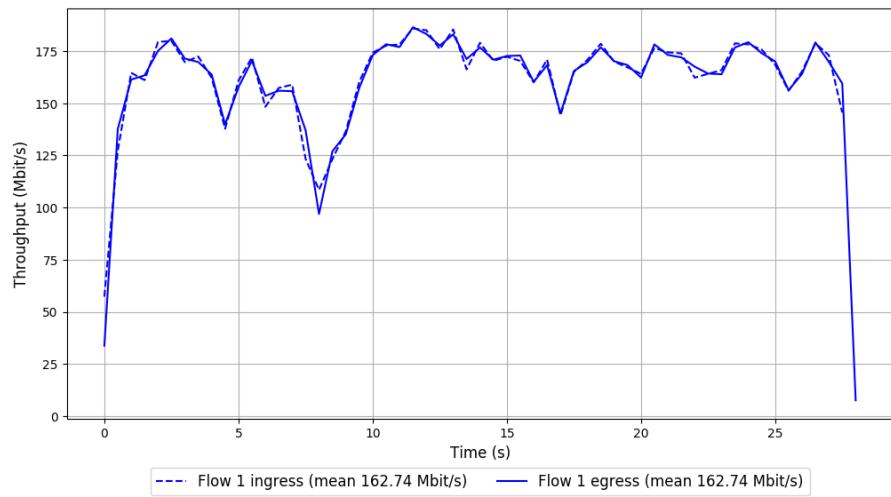
Run 2: Statistics of TaoVA-100x

Start at: 2017-09-18 04:39:05

End at: 2017-09-18 04:39:35

```
# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 162.74 Mbit/s
95th percentile per-packet one-way delay: 51.487 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 162.74 Mbit/s
95th percentile per-packet one-way delay: 51.487 ms
Loss rate: 0.00%
```

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



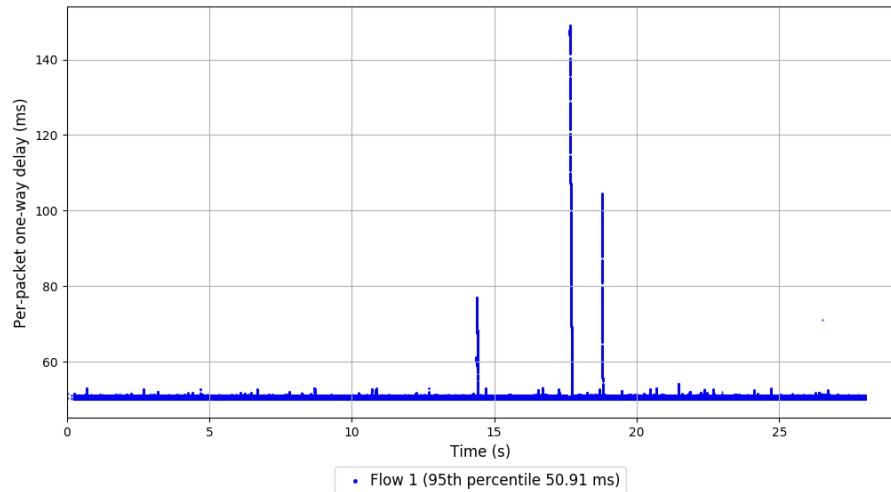
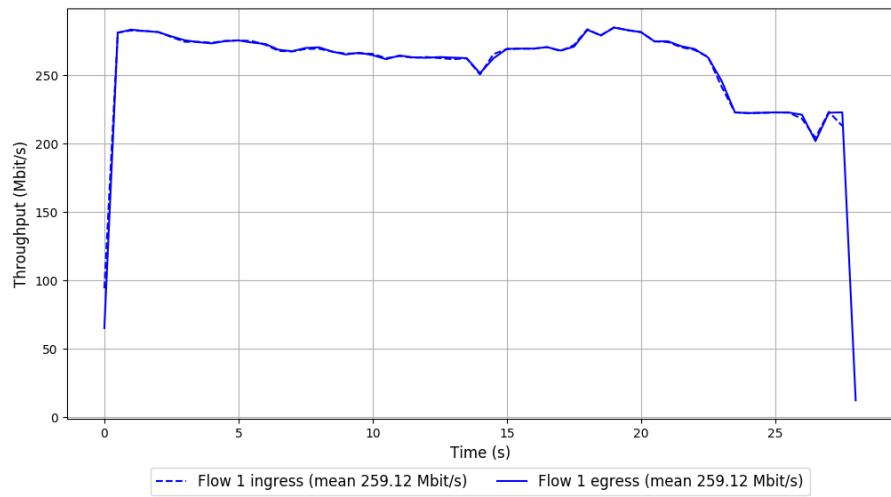
Run 3: Statistics of TaoVA-100x

Start at: 2017-09-18 04:50:16

End at: 2017-09-18 04:50:47

```
# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 259.12 Mbit/s
95th percentile per-packet one-way delay: 50.913 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 259.12 Mbit/s
95th percentile per-packet one-way delay: 50.913 ms
Loss rate: 0.00%
```

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



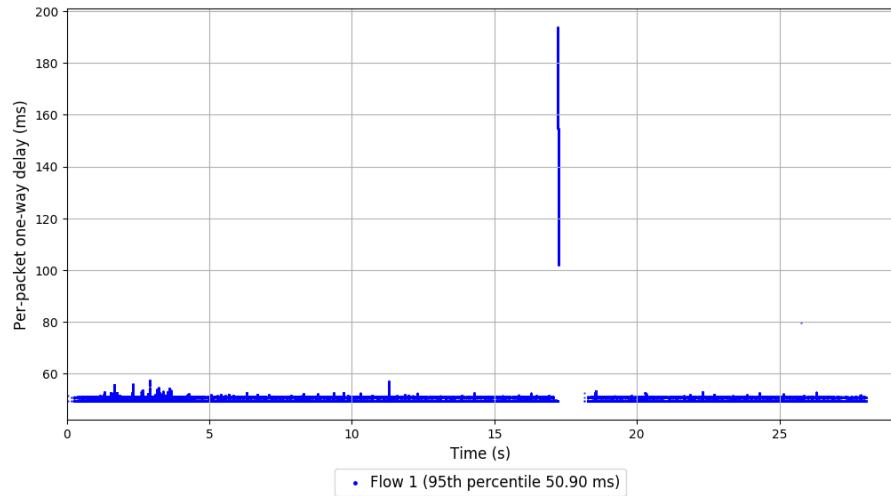
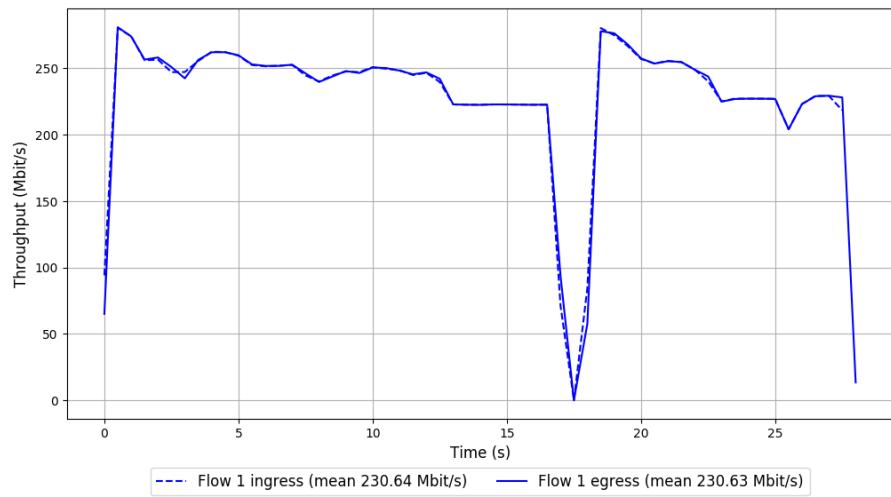
Run 4: Statistics of TaoVA-100x

Start at: 2017-09-18 05:01:17

End at: 2017-09-18 05:01:47

```
# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 230.63 Mbit/s
95th percentile per-packet one-way delay: 50.902 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 230.63 Mbit/s
95th percentile per-packet one-way delay: 50.902 ms
Loss rate: 0.00%
```

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



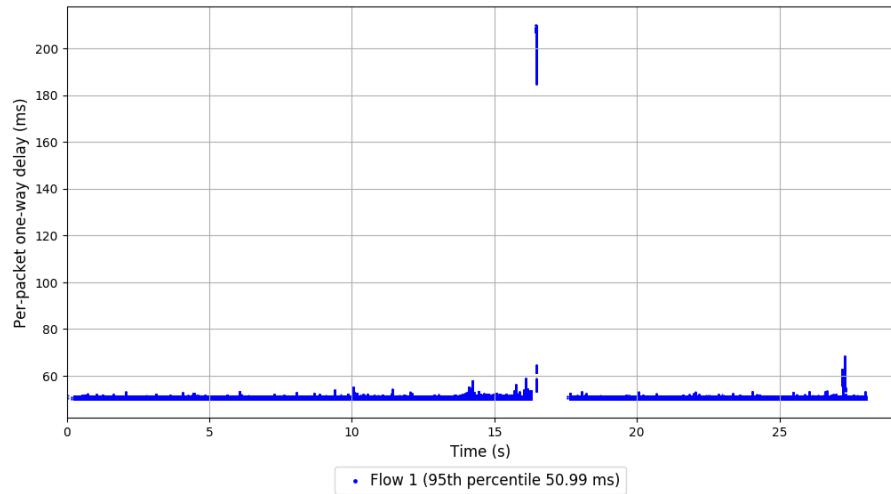
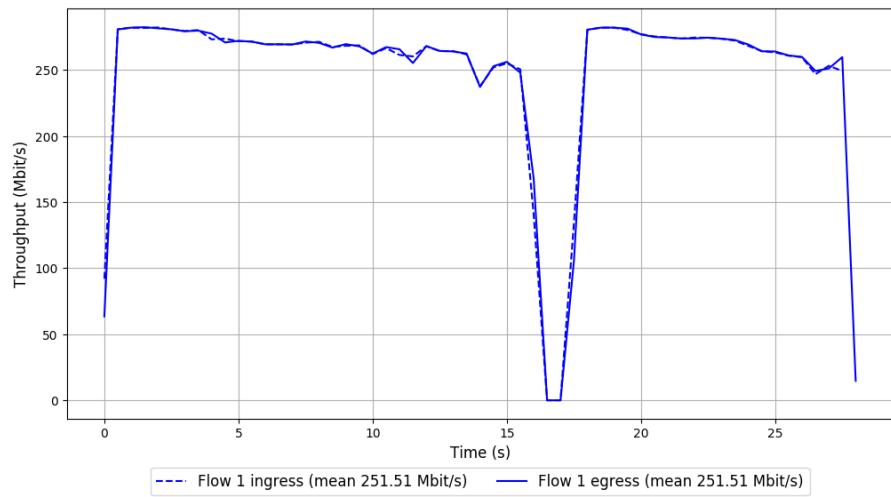
Run 5: Statistics of TaoVA-100x

Start at: 2017-09-18 05:12:35

End at: 2017-09-18 05:13:05

```
# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 251.51 Mbit/s
95th percentile per-packet one-way delay: 50.989 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 251.51 Mbit/s
95th percentile per-packet one-way delay: 50.989 ms
Loss rate: 0.00%
```

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



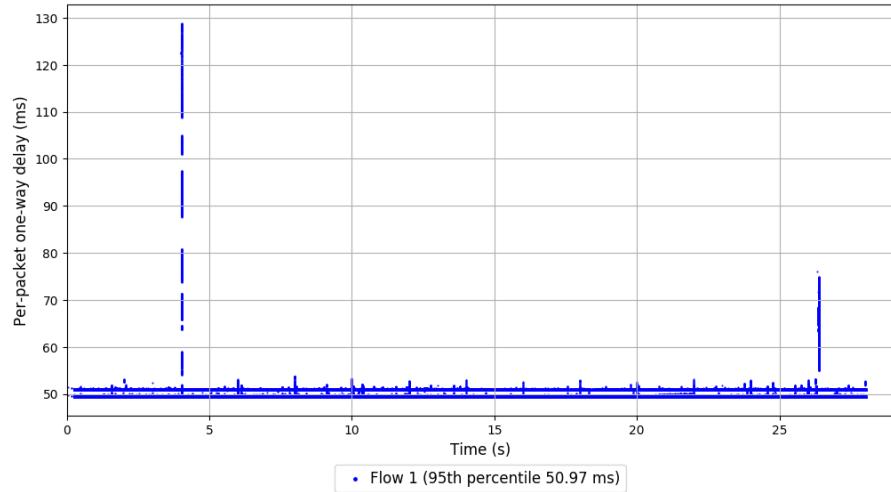
Run 6: Statistics of TaoVA-100x

Start at: 2017-09-18 05:23:37

End at: 2017-09-18 05:24:07

```
# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 148.93 Mbit/s
95th percentile per-packet one-way delay: 50.966 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 148.93 Mbit/s
95th percentile per-packet one-way delay: 50.966 ms
Loss rate: 0.00%
```

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



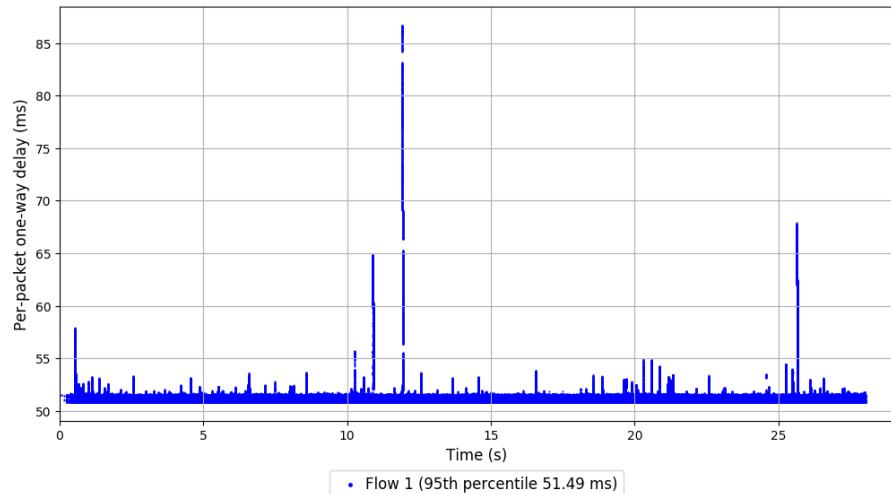
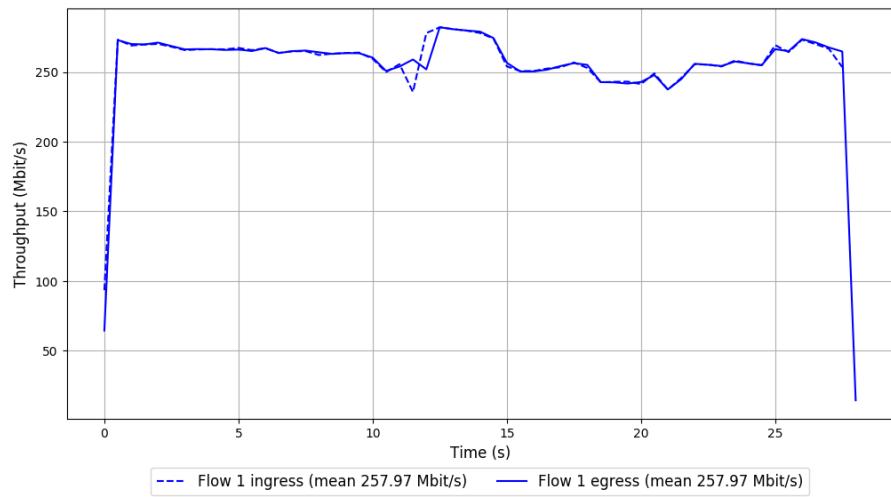
Run 7: Statistics of TaoVA-100x

Start at: 2017-09-18 05:34:55

End at: 2017-09-18 05:35:25

```
# Below is generated by plot.py at 2017-09-18 08:17:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 257.97 Mbit/s
95th percentile per-packet one-way delay: 51.487 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 257.97 Mbit/s
95th percentile per-packet one-way delay: 51.487 ms
Loss rate: 0.00%
```

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



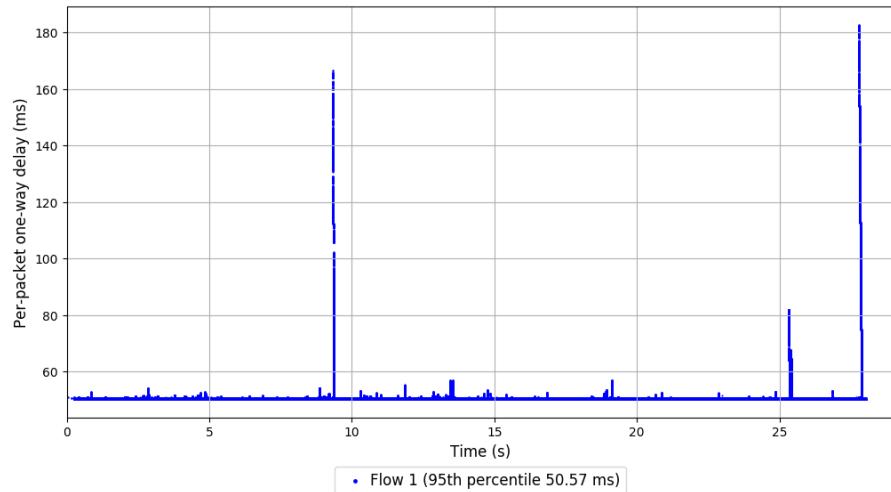
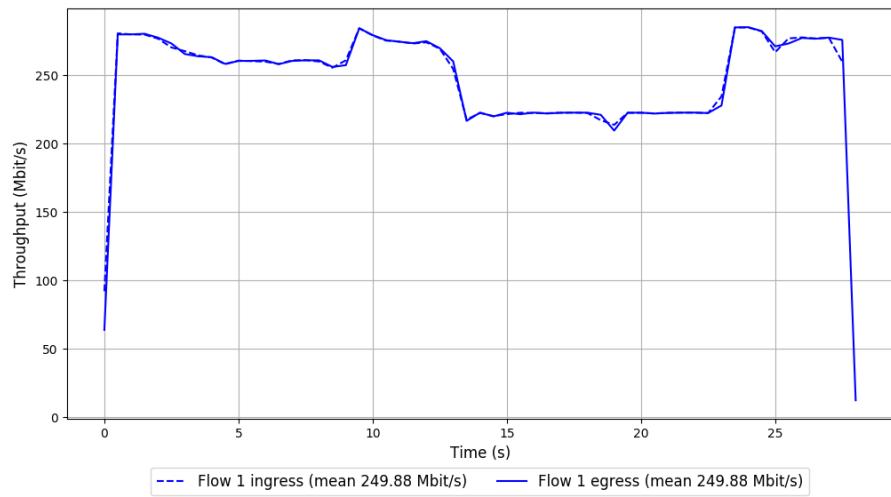
Run 8: Statistics of TaoVA-100x

Start at: 2017-09-18 05:46:06

End at: 2017-09-18 05:46:36

```
# Below is generated by plot.py at 2017-09-18 08:17:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 249.88 Mbit/s
95th percentile per-packet one-way delay: 50.574 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 249.88 Mbit/s
95th percentile per-packet one-way delay: 50.574 ms
Loss rate: 0.00%
```

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



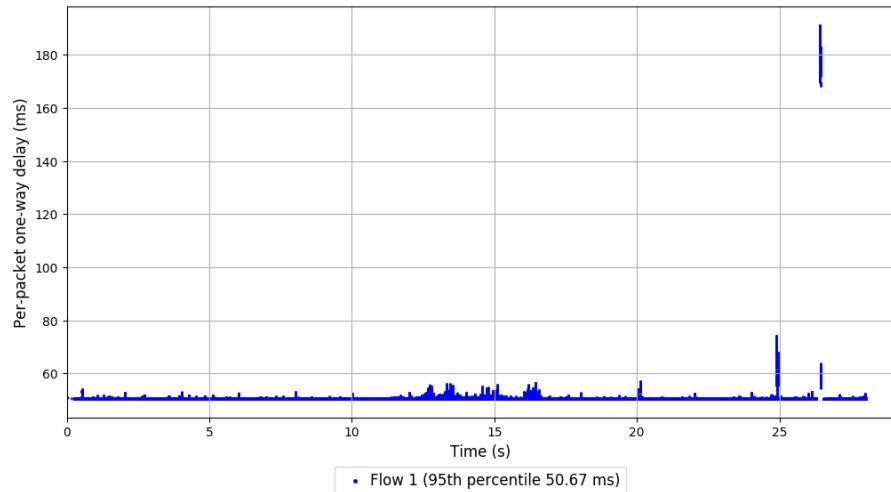
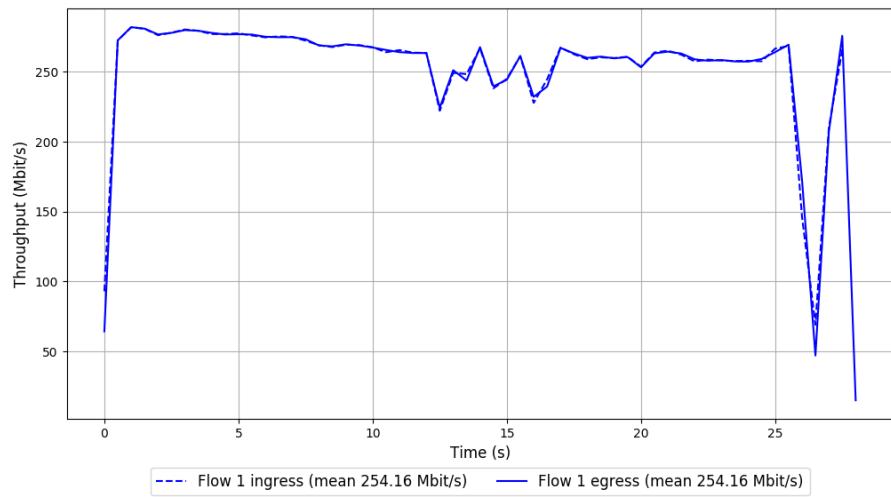
Run 9: Statistics of TaoVA-100x

Start at: 2017-09-18 05:57:25

End at: 2017-09-18 05:57:55

```
# Below is generated by plot.py at 2017-09-18 08:18:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 254.16 Mbit/s
95th percentile per-packet one-way delay: 50.673 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 254.16 Mbit/s
95th percentile per-packet one-way delay: 50.673 ms
Loss rate: 0.00%
```

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



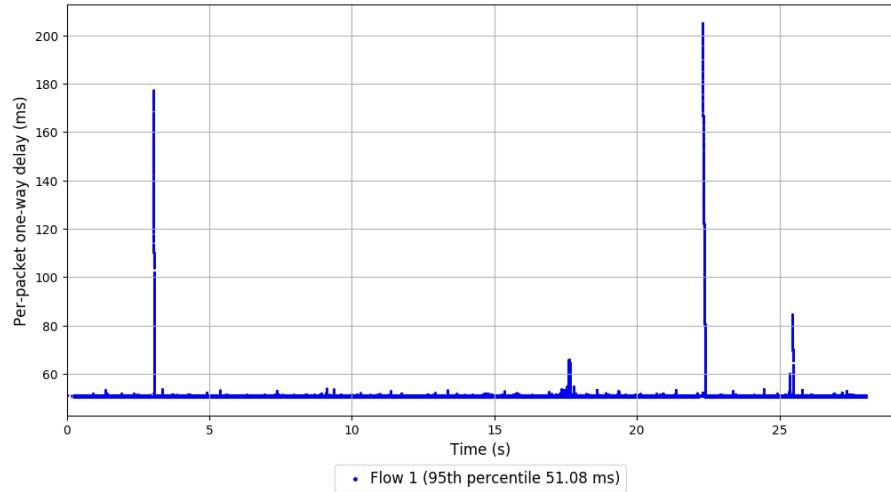
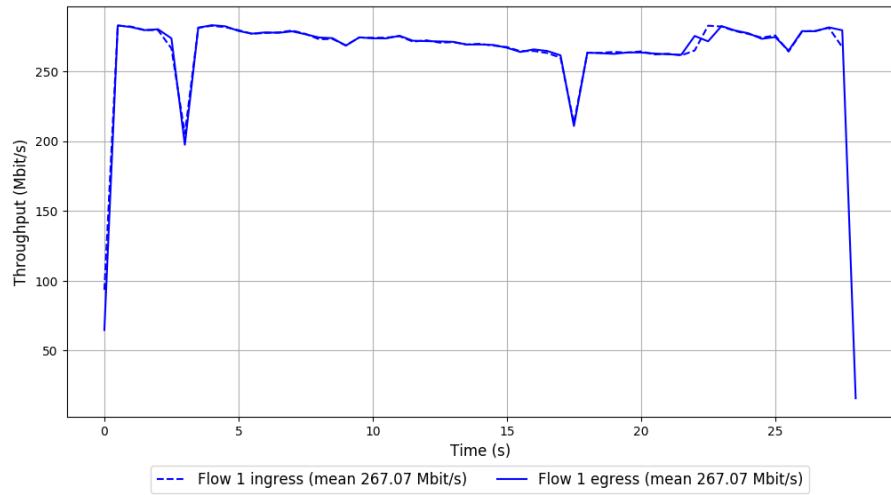
Run 10: Statistics of TaoVA-100x

Start at: 2017-09-18 06:08:42

End at: 2017-09-18 06:09:12

```
# Below is generated by plot.py at 2017-09-18 08:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 267.07 Mbit/s
95th percentile per-packet one-way delay: 51.075 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 267.07 Mbit/s
95th percentile per-packet one-way delay: 51.075 ms
Loss rate: 0.00%
```

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

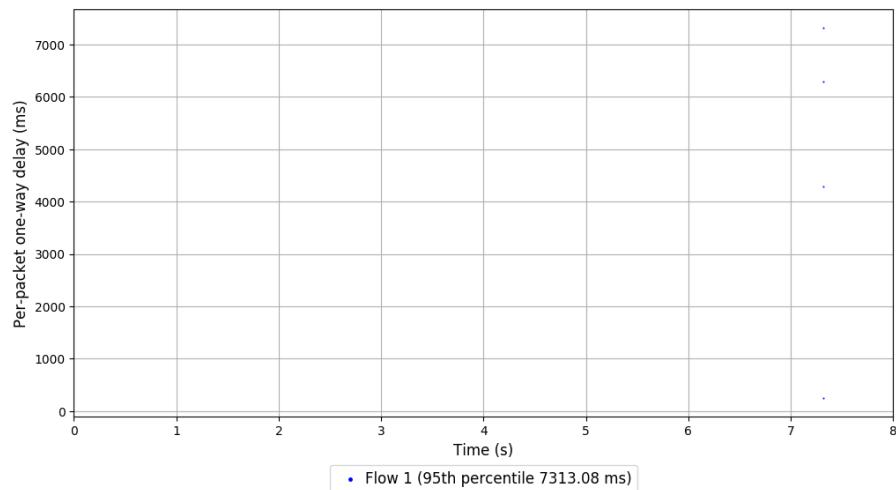
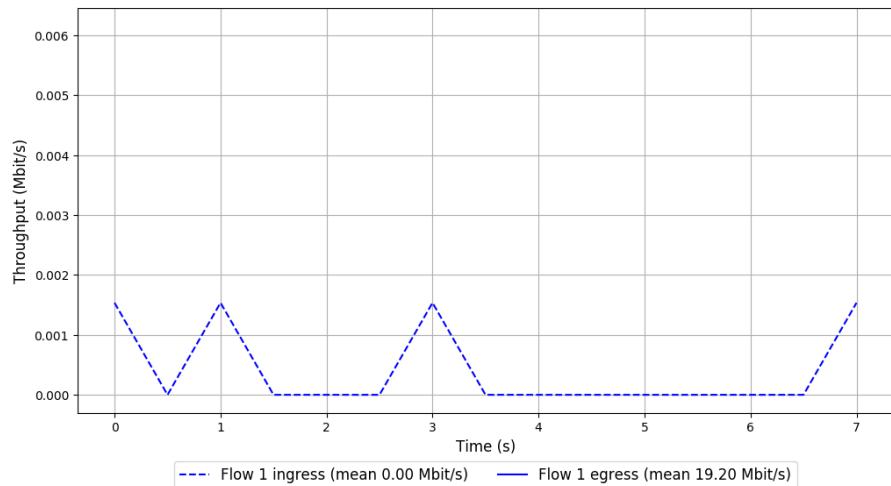


Run 1: Statistics of TCP Vegas

Start at: 2017-09-18 04:31:21

End at: 2017-09-18 04:31:51

Run 1: Report of TCP Vegas — Data Link



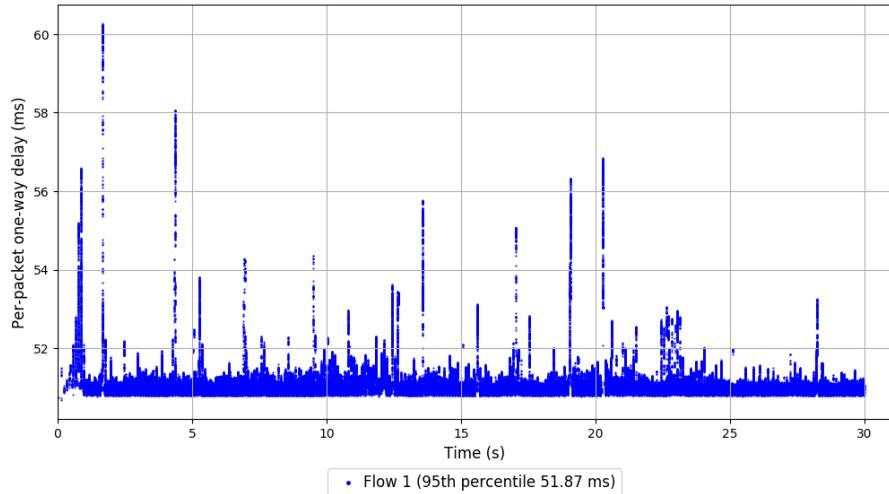
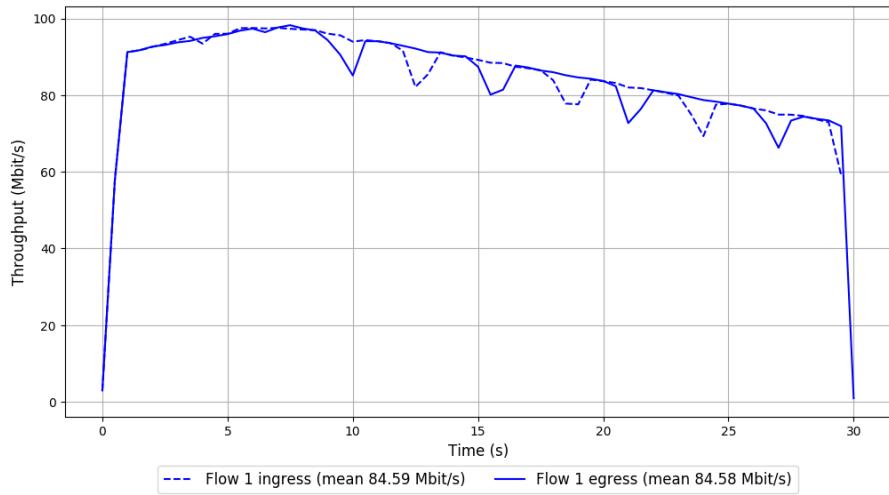
Run 2: Statistics of TCP Vegas

Start at: 2017-09-18 04:42:34

End at: 2017-09-18 04:43:04

```
# Below is generated by plot.py at 2017-09-18 08:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.58 Mbit/s
95th percentile per-packet one-way delay: 51.873 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.58 Mbit/s
95th percentile per-packet one-way delay: 51.873 ms
Loss rate: 0.00%
```

Run 2: Report of TCP Vegas — Data Link

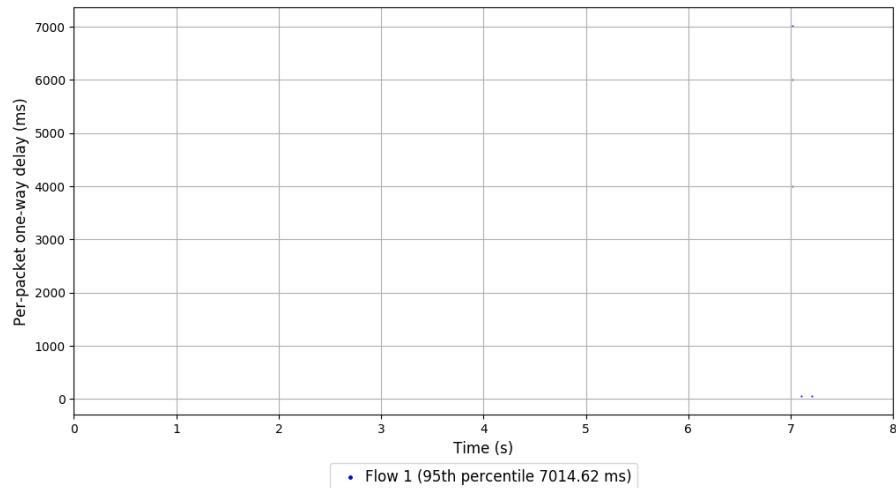
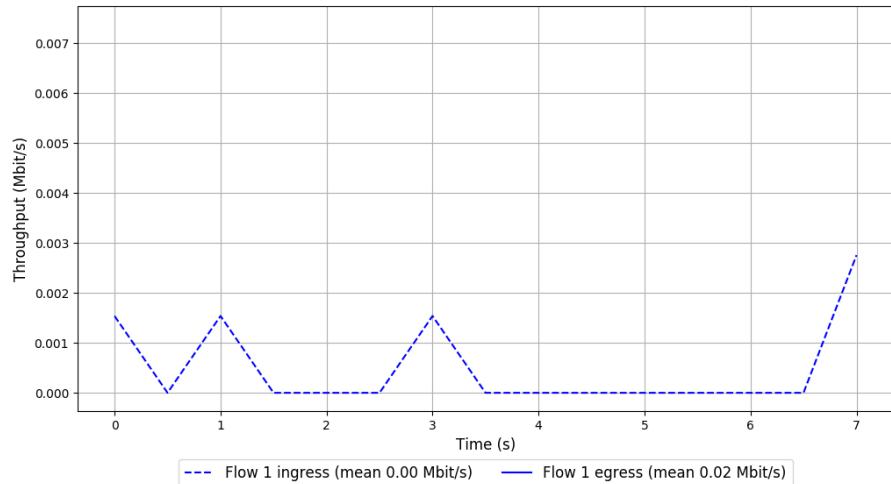


Run 3: Statistics of TCP Vegas

Start at: 2017-09-18 04:53:36

End at: 2017-09-18 04:54:06

Run 3: Report of TCP Vegas — Data Link



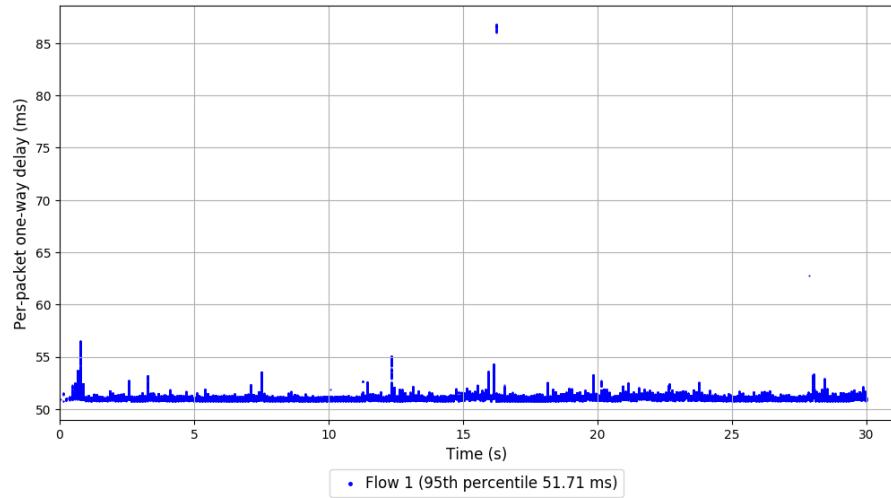
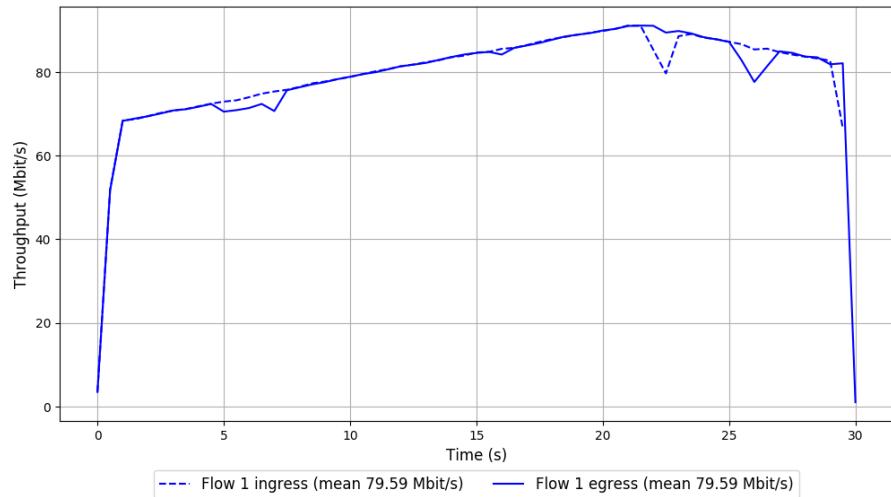
Run 4: Statistics of TCP Vegas

Start at: 2017-09-18 05:04:50

End at: 2017-09-18 05:05:20

```
# Below is generated by plot.py at 2017-09-18 08:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.59 Mbit/s
95th percentile per-packet one-way delay: 51.711 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 79.59 Mbit/s
95th percentile per-packet one-way delay: 51.711 ms
Loss rate: 0.00%
```

Run 4: Report of TCP Vegas — Data Link



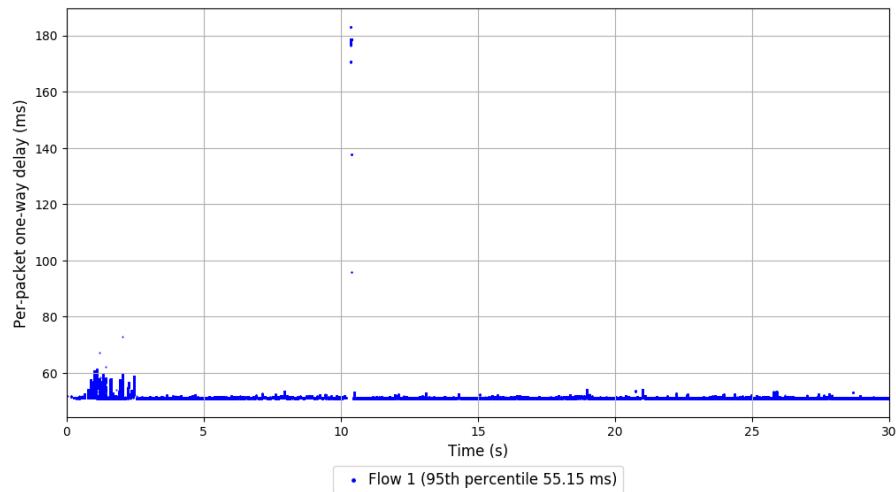
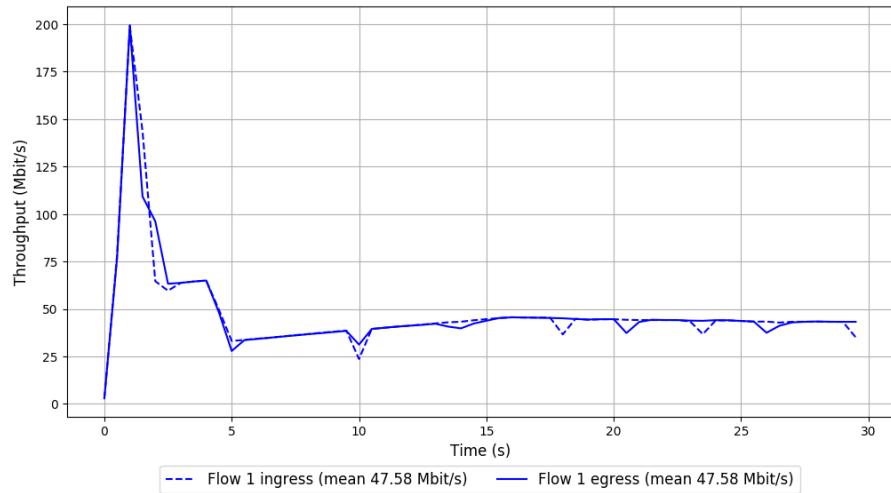
Run 5: Statistics of TCP Vegas

Start at: 2017-09-18 05:15:56

End at: 2017-09-18 05:16:26

```
# Below is generated by plot.py at 2017-09-18 08:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.58 Mbit/s
95th percentile per-packet one-way delay: 55.150 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 47.58 Mbit/s
95th percentile per-packet one-way delay: 55.150 ms
Loss rate: 0.01%
```

Run 5: Report of TCP Vegas — Data Link



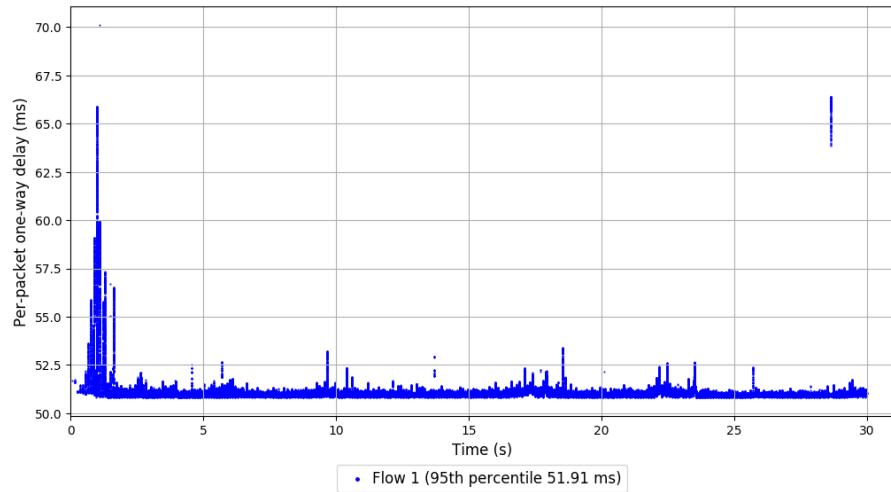
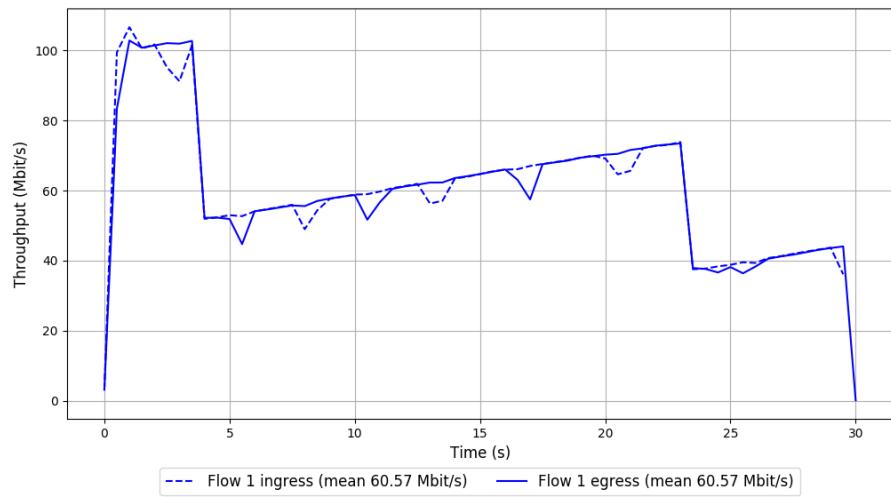
Run 6: Statistics of TCP Vegas

Start at: 2017-09-18 05:27:07

End at: 2017-09-18 05:27:38

```
# Below is generated by plot.py at 2017-09-18 08:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.57 Mbit/s
95th percentile per-packet one-way delay: 51.915 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.57 Mbit/s
95th percentile per-packet one-way delay: 51.915 ms
Loss rate: 0.00%
```

Run 6: Report of TCP Vegas — Data Link



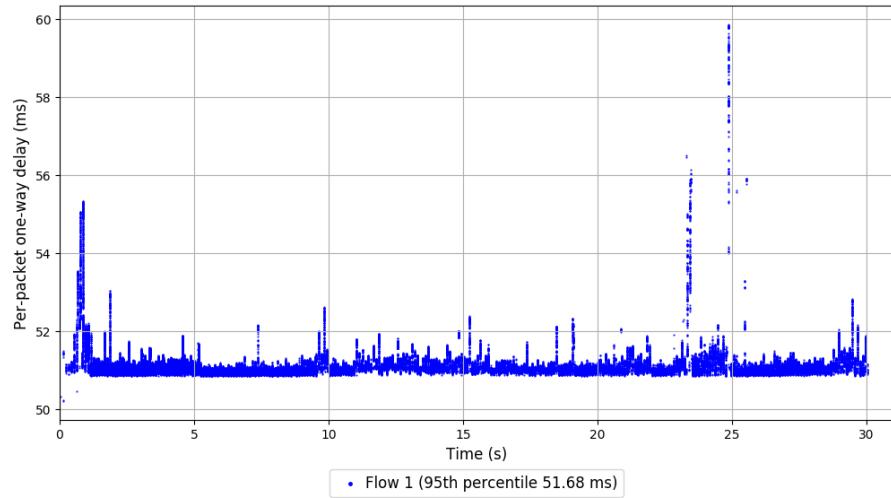
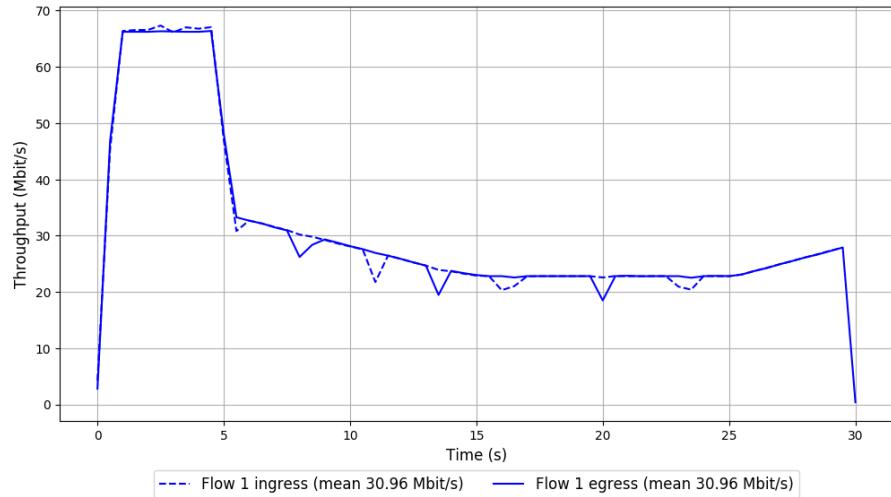
Run 7: Statistics of TCP Vegas

Start at: 2017-09-18 05:38:26

End at: 2017-09-18 05:38:56

```
# Below is generated by plot.py at 2017-09-18 08:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 30.96 Mbit/s
95th percentile per-packet one-way delay: 51.679 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 30.96 Mbit/s
95th percentile per-packet one-way delay: 51.679 ms
Loss rate: 0.00%
```

Run 7: Report of TCP Vegas — Data Link



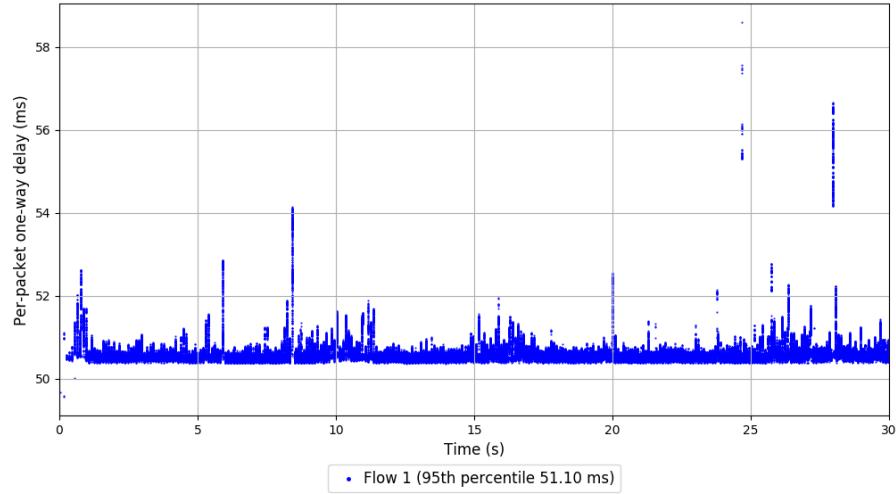
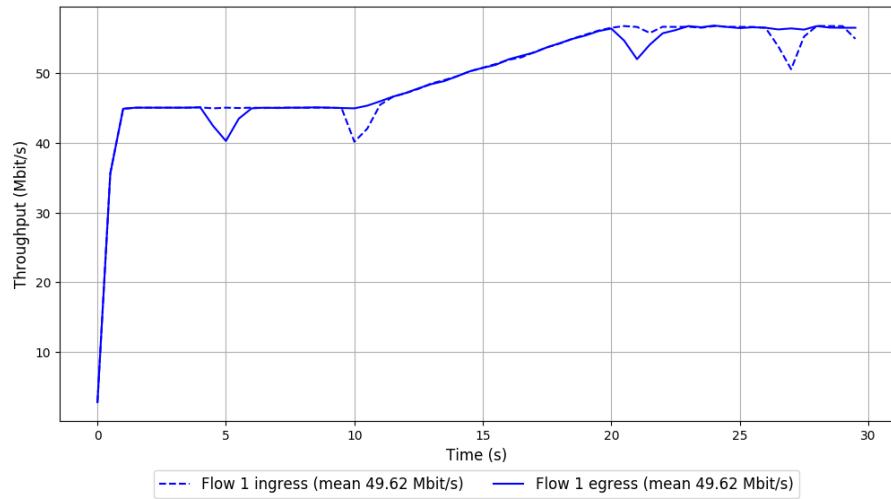
Run 8: Statistics of TCP Vegas

Start at: 2017-09-18 05:49:41

End at: 2017-09-18 05:50:11

```
# Below is generated by plot.py at 2017-09-18 08:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.62 Mbit/s
95th percentile per-packet one-way delay: 51.099 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.62 Mbit/s
95th percentile per-packet one-way delay: 51.099 ms
Loss rate: 0.00%
```

Run 8: Report of TCP Vegas — Data Link



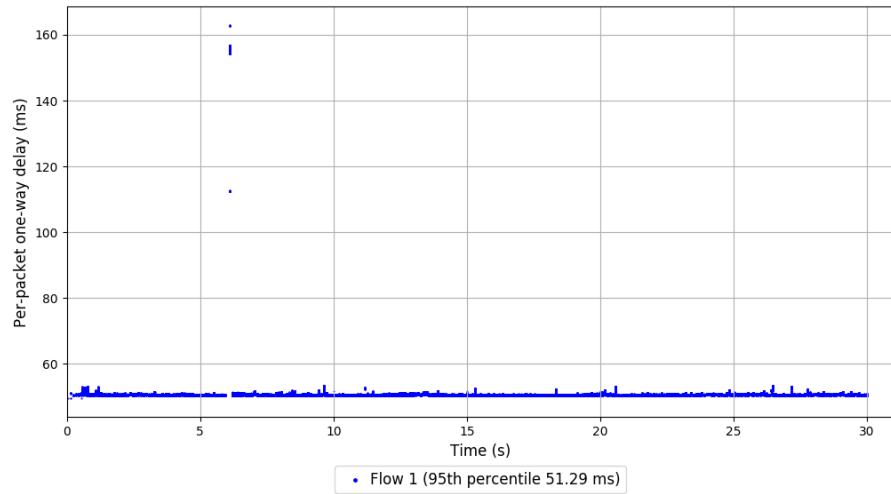
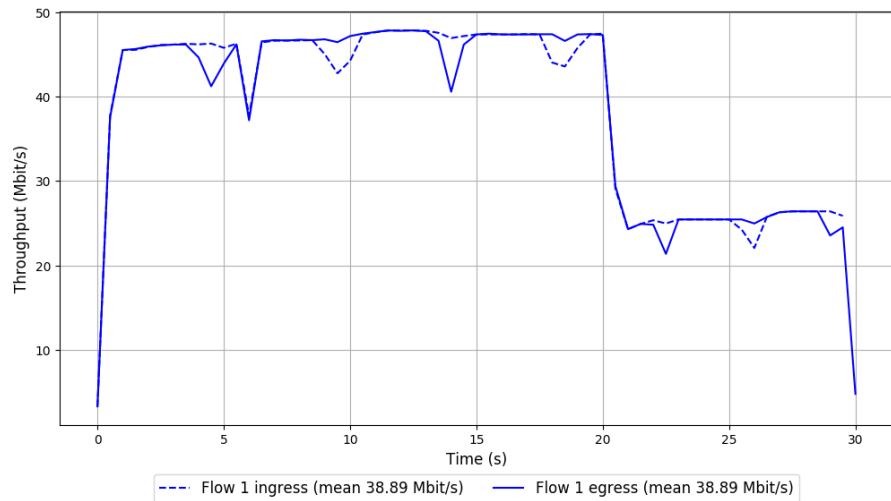
Run 9: Statistics of TCP Vegas

Start at: 2017-09-18 06:01:00

End at: 2017-09-18 06:01:30

```
# Below is generated by plot.py at 2017-09-18 08:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 38.89 Mbit/s
95th percentile per-packet one-way delay: 51.294 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 38.89 Mbit/s
95th percentile per-packet one-way delay: 51.294 ms
Loss rate: 0.00%
```

Run 9: Report of TCP Vegas — Data Link



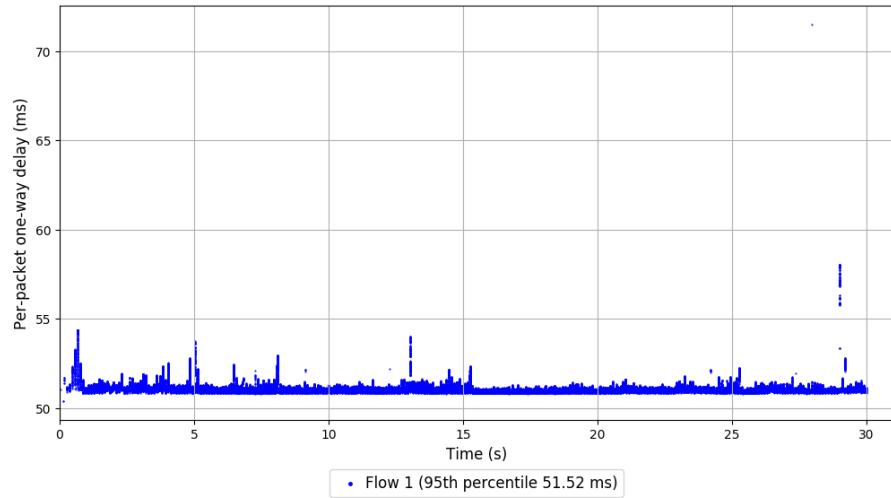
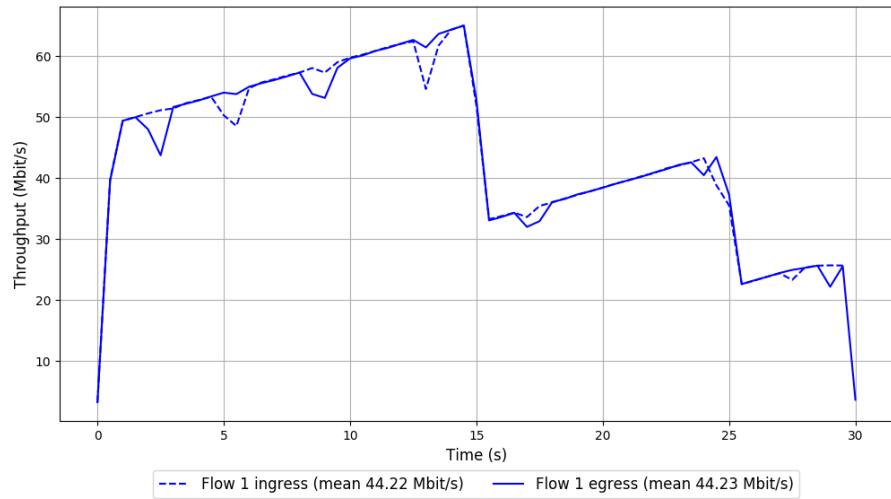
Run 10: Statistics of TCP Vegas

Start at: 2017-09-18 06:12:04

End at: 2017-09-18 06:12:34

```
# Below is generated by plot.py at 2017-09-18 08:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.23 Mbit/s
95th percentile per-packet one-way delay: 51.525 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.23 Mbit/s
95th percentile per-packet one-way delay: 51.525 ms
Loss rate: 0.00%
```

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-09-18 04:30:44

End at: 2017-09-18 04:31:14

Run 1: Report of Verus — Data Link

Figure is missing

Figure is missing

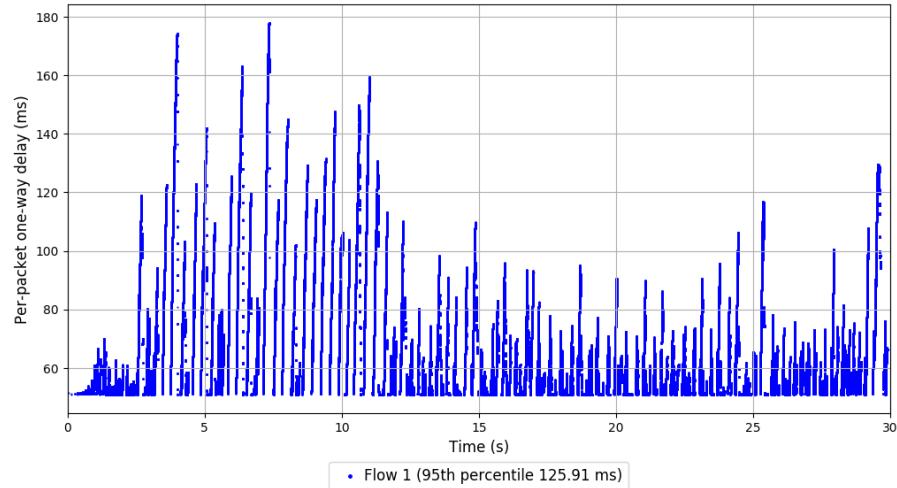
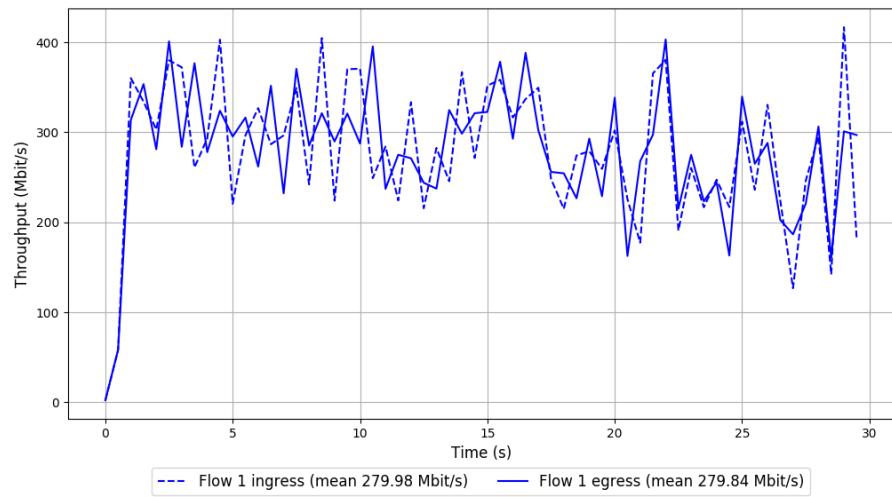
Run 2: Statistics of Verus

Start at: 2017-09-18 04:41:39

End at: 2017-09-18 04:42:10

```
# Below is generated by plot.py at 2017-09-18 08:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 279.84 Mbit/s
95th percentile per-packet one-way delay: 125.913 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 279.84 Mbit/s
95th percentile per-packet one-way delay: 125.913 ms
Loss rate: 0.00%
```

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-09-18 04:53:00

End at: 2017-09-18 04:53:30

Run 3: Report of Verus — Data Link

Figure is missing

Figure is missing

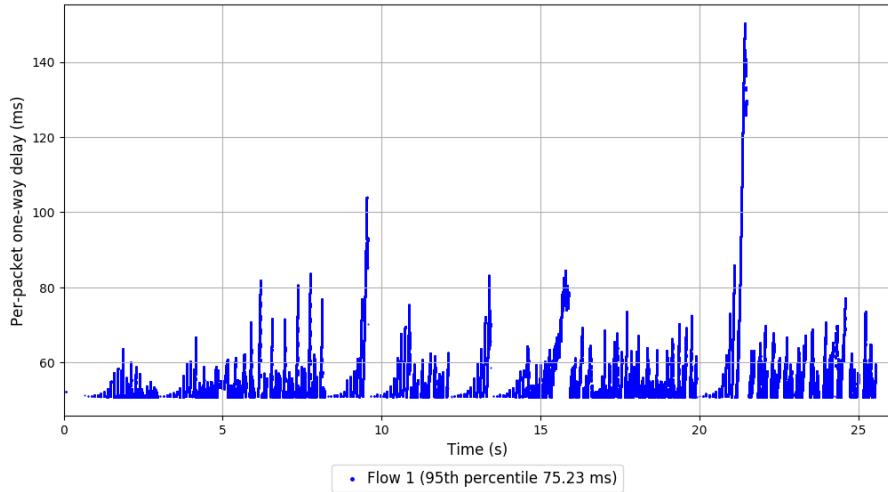
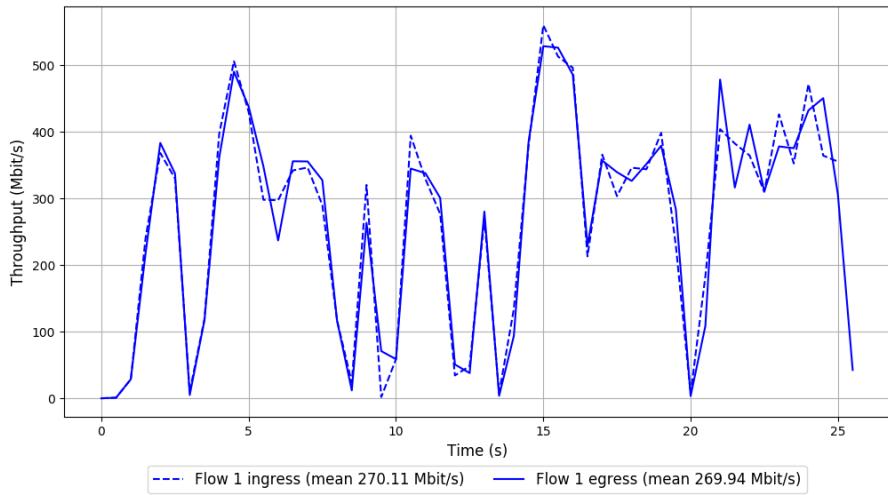
Run 4: Statistics of Verus

Start at: 2017-09-18 05:03:58

End at: 2017-09-18 05:04:28

```
# Below is generated by plot.py at 2017-09-18 08:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 269.94 Mbit/s
95th percentile per-packet one-way delay: 75.227 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 269.94 Mbit/s
95th percentile per-packet one-way delay: 75.227 ms
Loss rate: 0.06%
```

Run 4: Report of Verus — Data Link

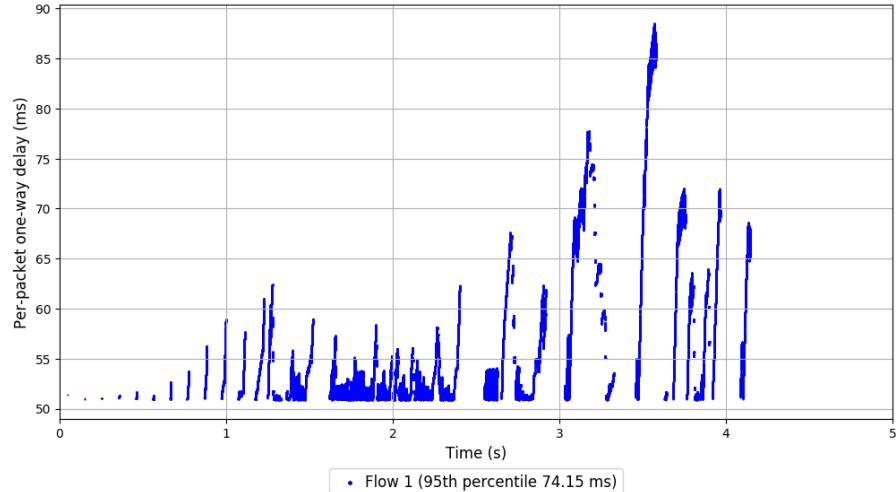
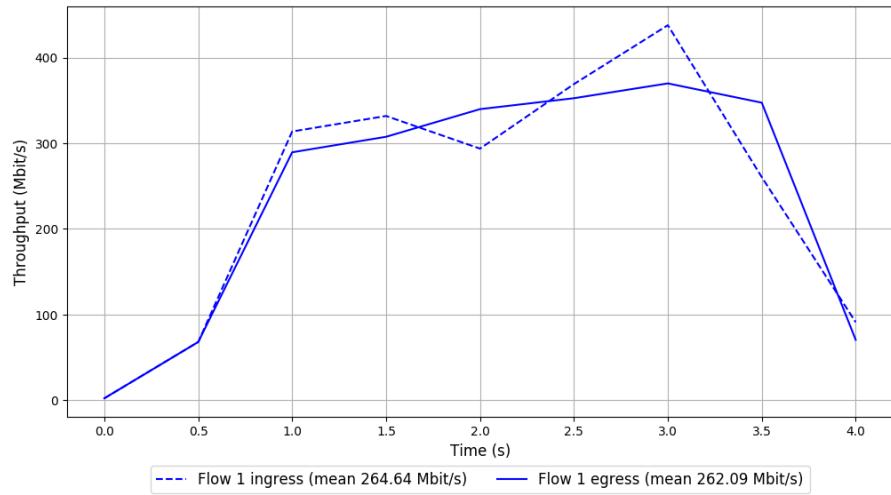


Run 5: Statistics of Verus

Start at: 2017-09-18 05:15:16

End at: 2017-09-18 05:15:46

Run 5: Report of Verus — Data Link



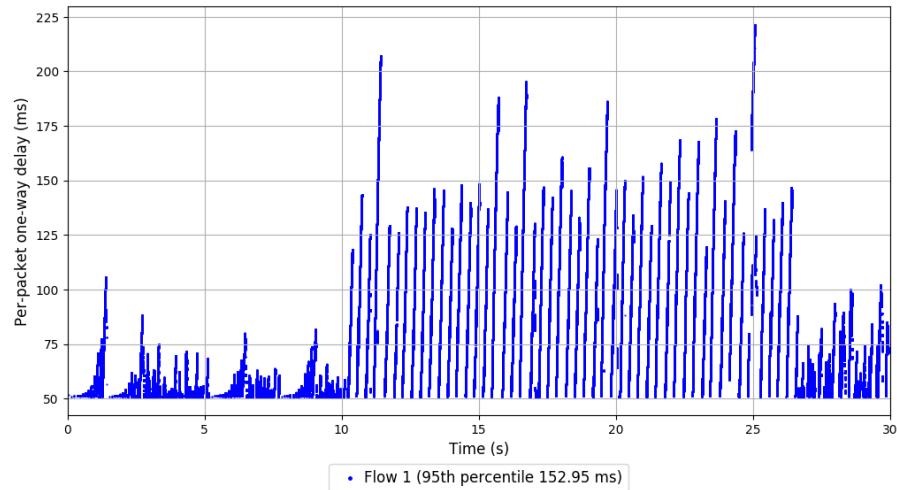
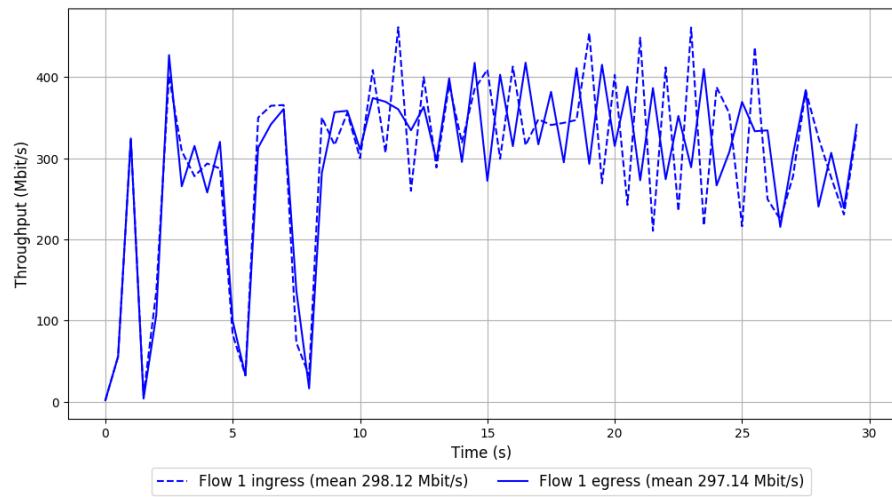
Run 6: Statistics of Verus

Start at: 2017-09-18 05:26:11

End at: 2017-09-18 05:26:41

```
# Below is generated by plot.py at 2017-09-18 08:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 297.14 Mbit/s
95th percentile per-packet one-way delay: 152.954 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 297.14 Mbit/s
95th percentile per-packet one-way delay: 152.954 ms
Loss rate: 0.32%
```

Run 6: Report of Verus — Data Link

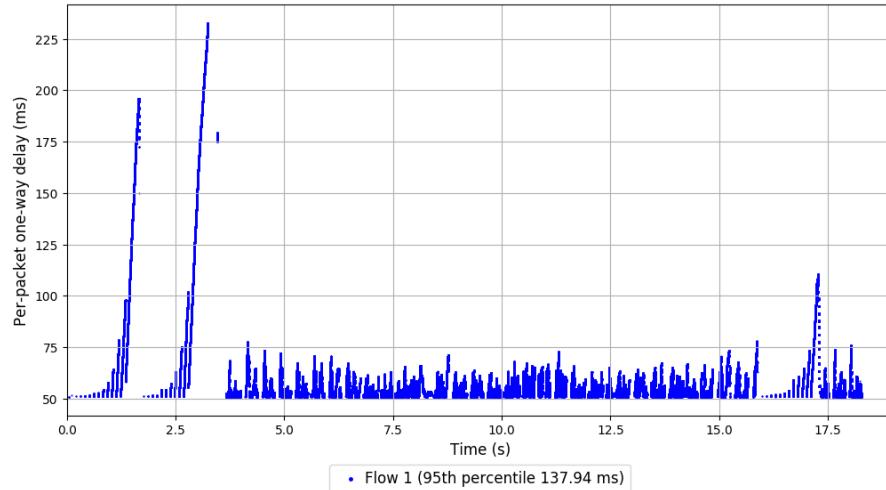
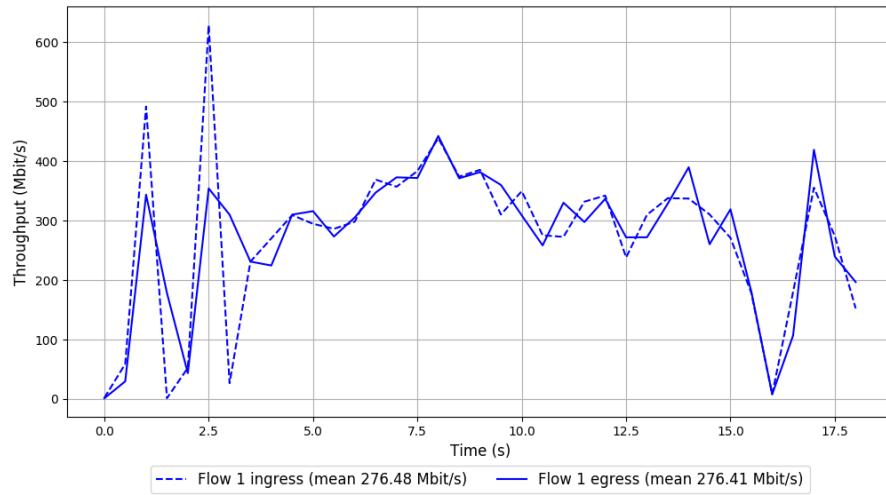


Run 7: Statistics of Verus

Start at: 2017-09-18 05:37:38

End at: 2017-09-18 05:38:08

Run 7: Report of Verus — Data Link



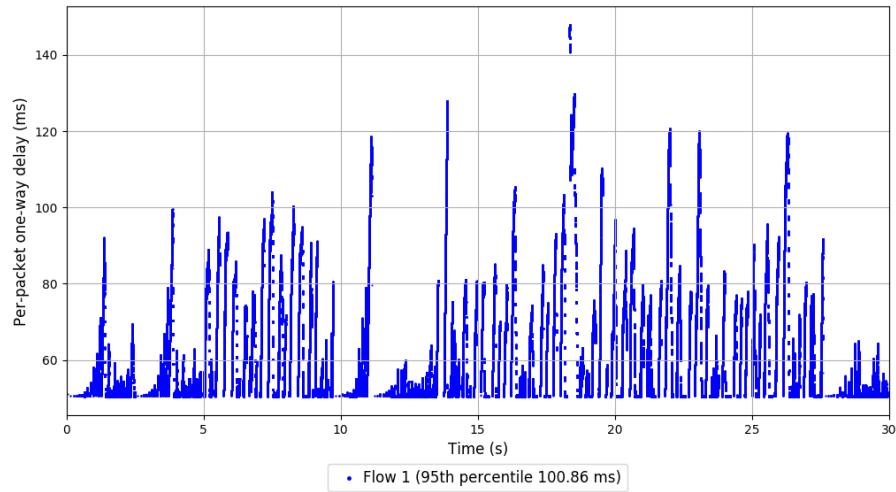
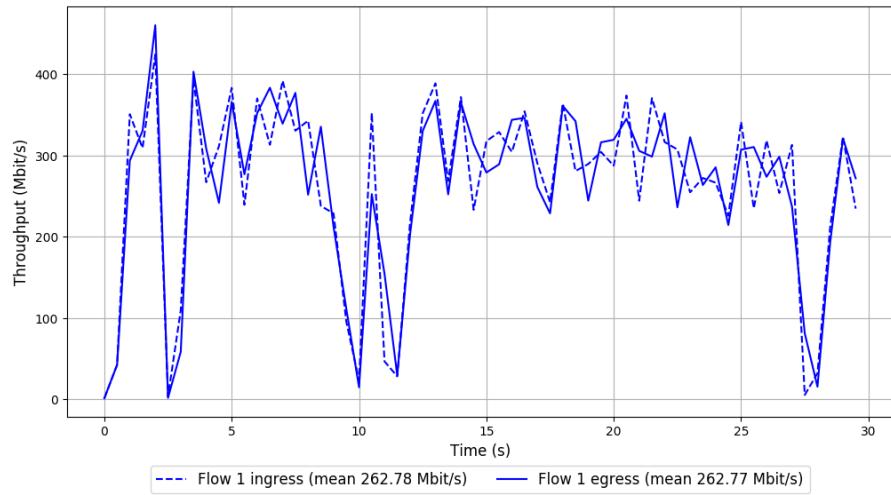
Run 8: Statistics of Verus

Start at: 2017-09-18 05:48:48

End at: 2017-09-18 05:49:18

```
# Below is generated by plot.py at 2017-09-18 08:19:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 262.77 Mbit/s
95th percentile per-packet one-way delay: 100.862 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 262.77 Mbit/s
95th percentile per-packet one-way delay: 100.862 ms
Loss rate: 0.00%
```

Run 8: Report of Verus — Data Link



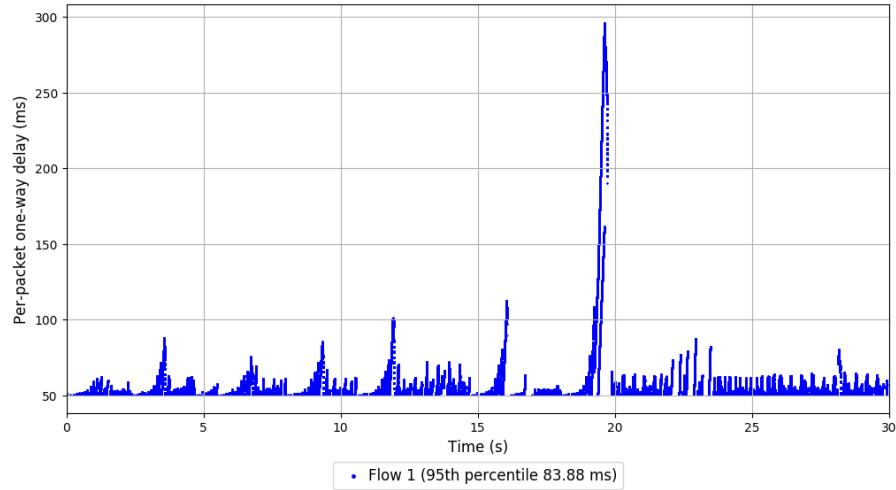
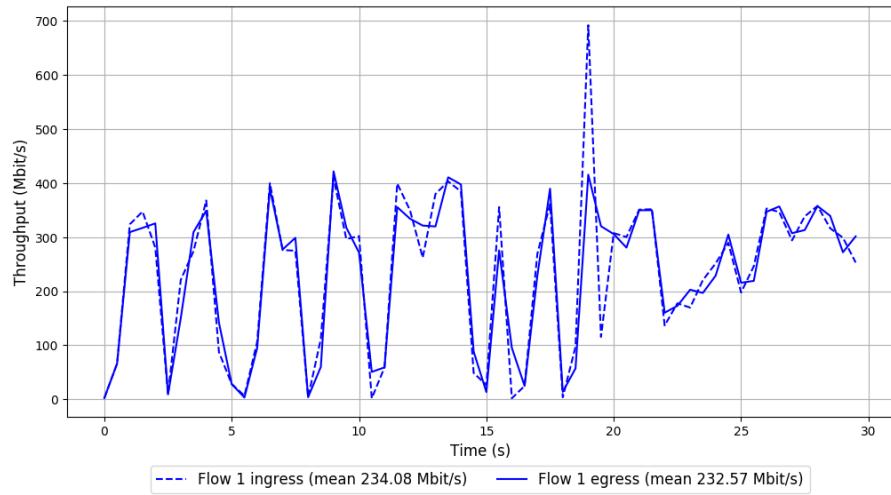
Run 9: Statistics of Verus

Start at: 2017-09-18 06:00:08

End at: 2017-09-18 06:00:38

```
# Below is generated by plot.py at 2017-09-18 08:19:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 232.57 Mbit/s
95th percentile per-packet one-way delay: 83.880 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 232.57 Mbit/s
95th percentile per-packet one-way delay: 83.880 ms
Loss rate: 0.64%
```

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-09-18 06:11:28

End at: 2017-09-18 06:11:58

Run 10: Report of Verus — Data Link

Figure is missing

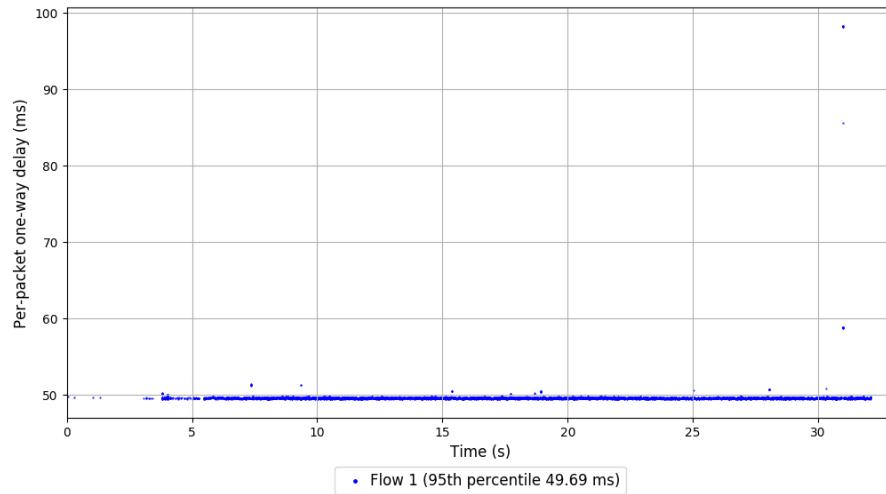
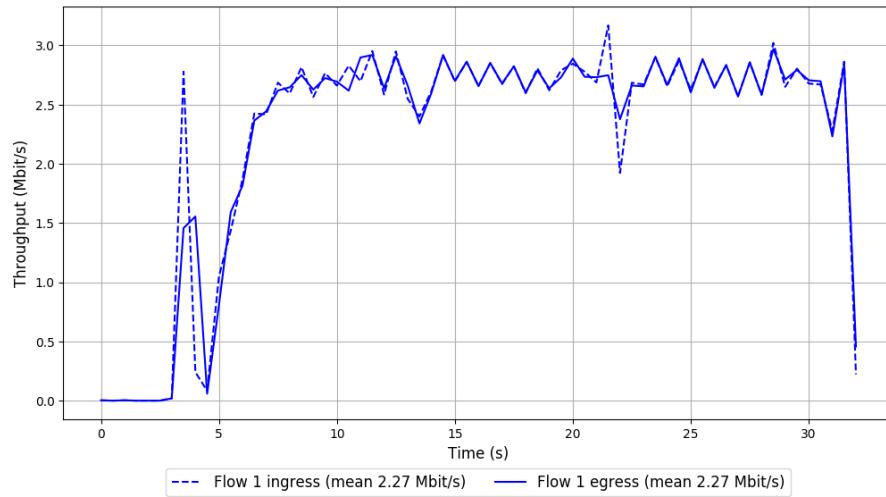
Figure is missing

```
Run 1: Statistics of WebRTC media

Start at: 2017-09-18 04:25:28
End at: 2017-09-18 04:25:58

# Below is generated by plot.py at 2017-09-18 08:19:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 49.694 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 49.694 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

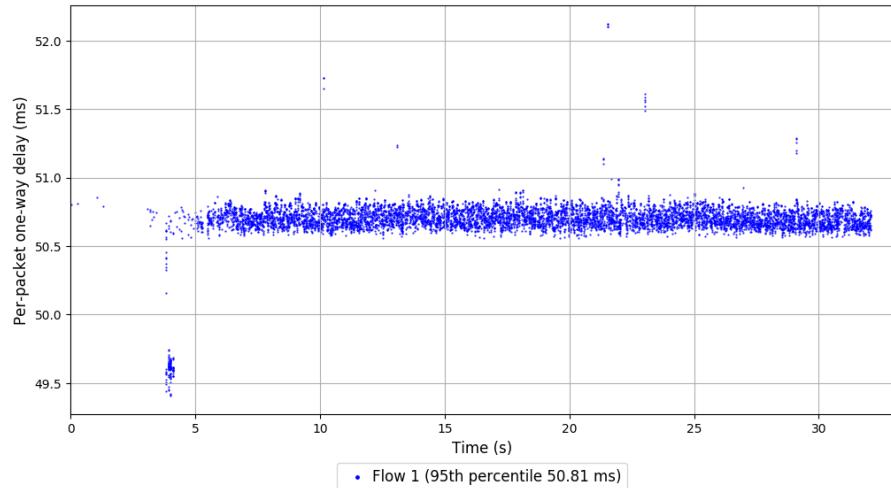
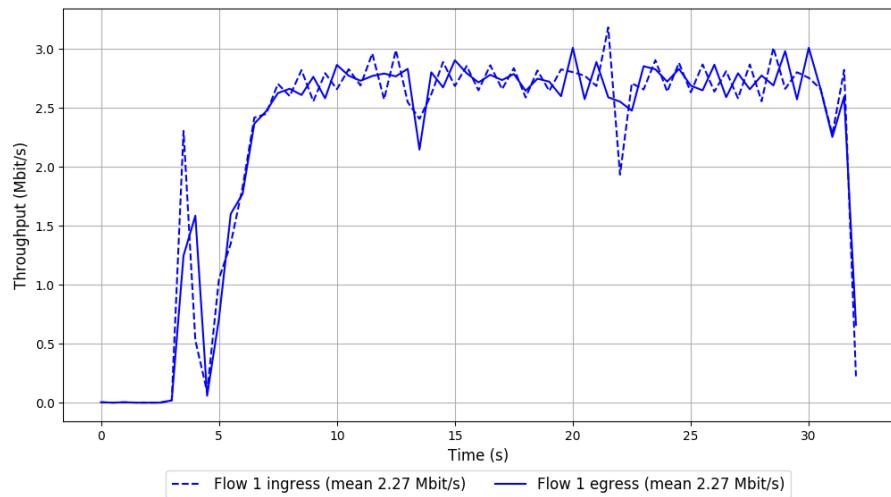


```
Run 2: Statistics of WebRTC media

Start at: 2017-09-18 04:36:30
End at: 2017-09-18 04:37:00

# Below is generated by plot.py at 2017-09-18 08:19:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 50.811 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 50.811 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

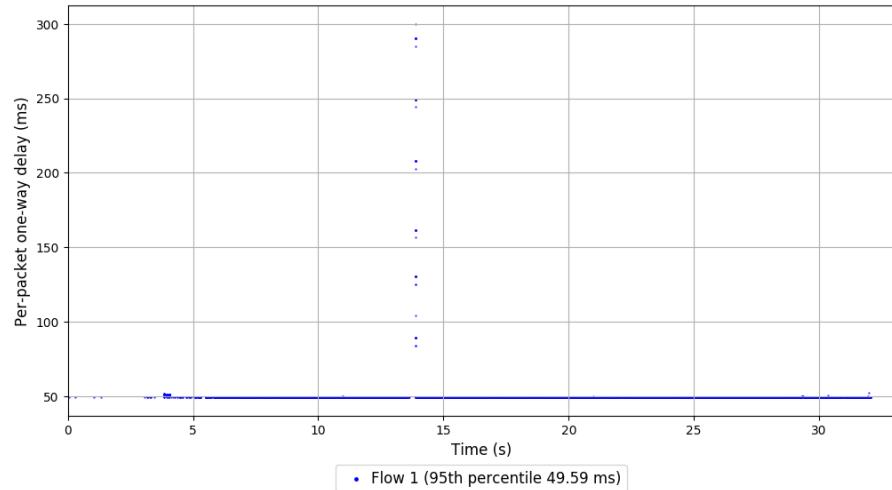
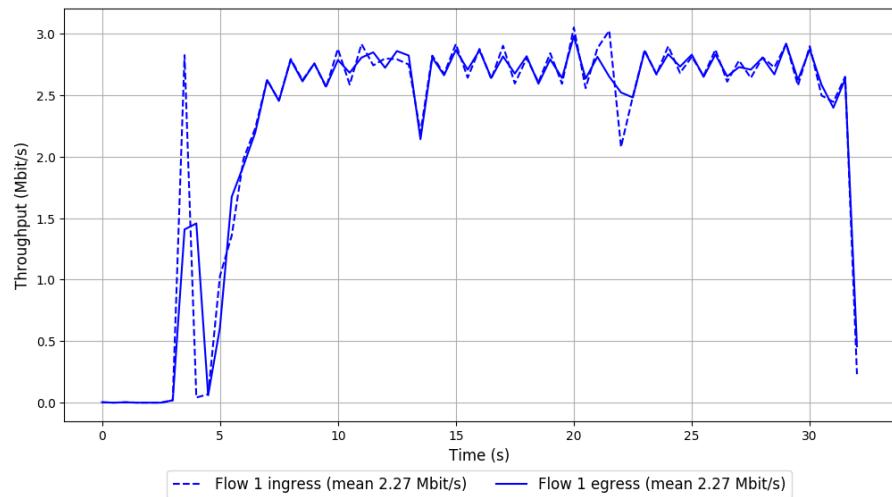


```
Run 3: Statistics of WebRTC media

Start at: 2017-09-18 04:47:42
End at: 2017-09-18 04:48:12

# Below is generated by plot.py at 2017-09-18 08:19:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 49.592 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 49.592 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

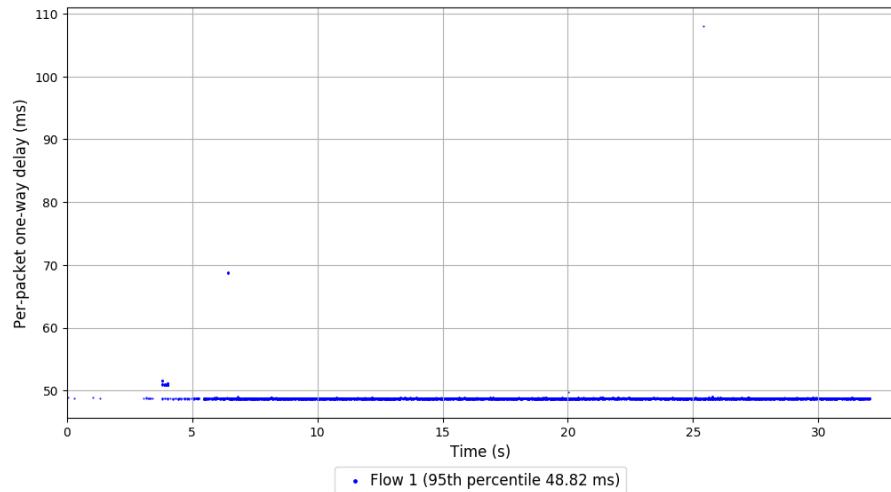
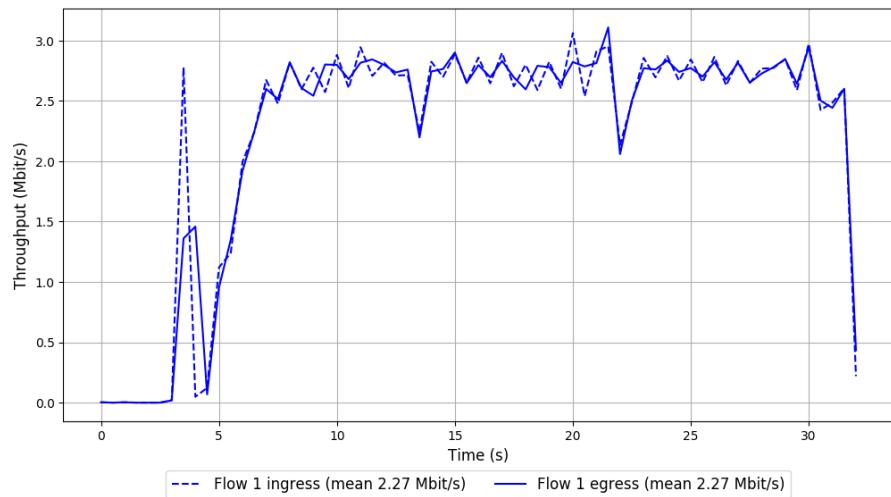


```
Run 4: Statistics of WebRTC media

Start at: 2017-09-18 04:58:42
End at: 2017-09-18 04:59:12

# Below is generated by plot.py at 2017-09-18 08:19:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 48.824 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 48.824 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link

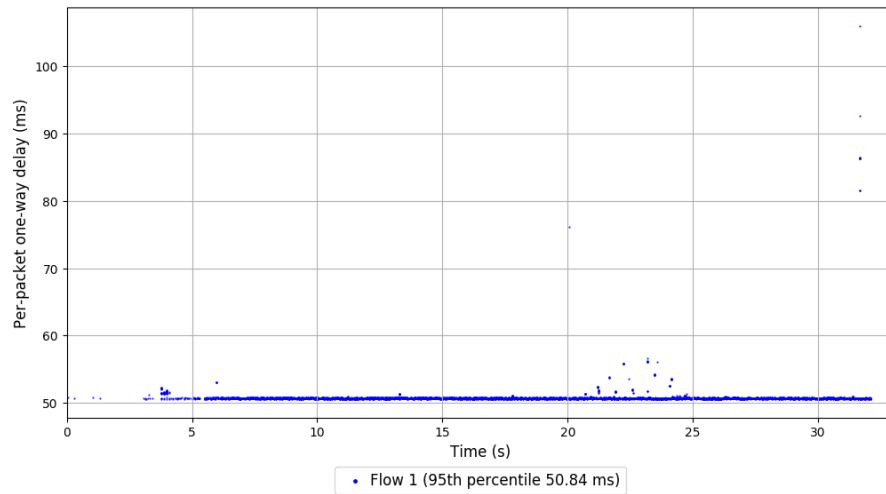
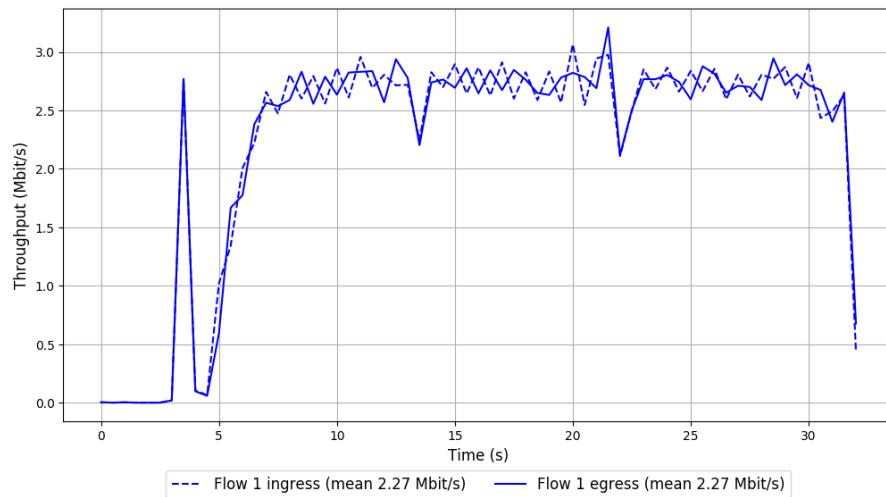


```
Run 5: Statistics of WebRTC media

Start at: 2017-09-18 05:09:58
End at: 2017-09-18 05:10:28

# Below is generated by plot.py at 2017-09-18 08:19:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 50.837 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 50.837 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

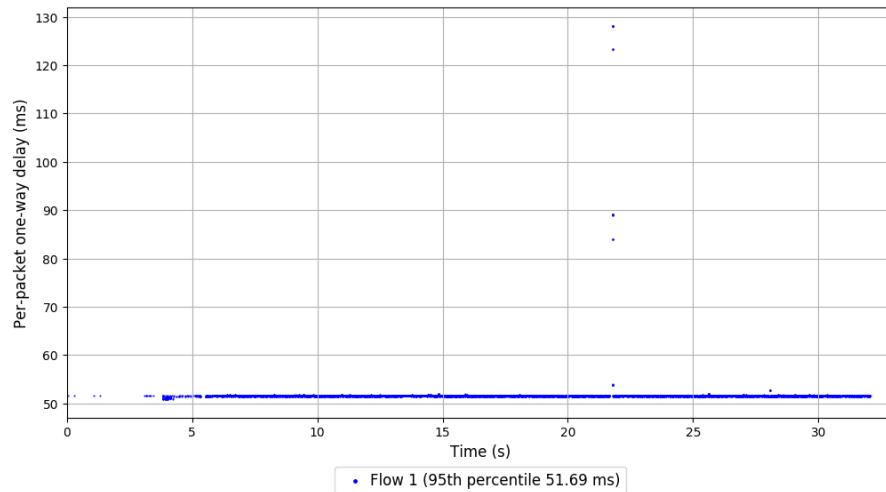
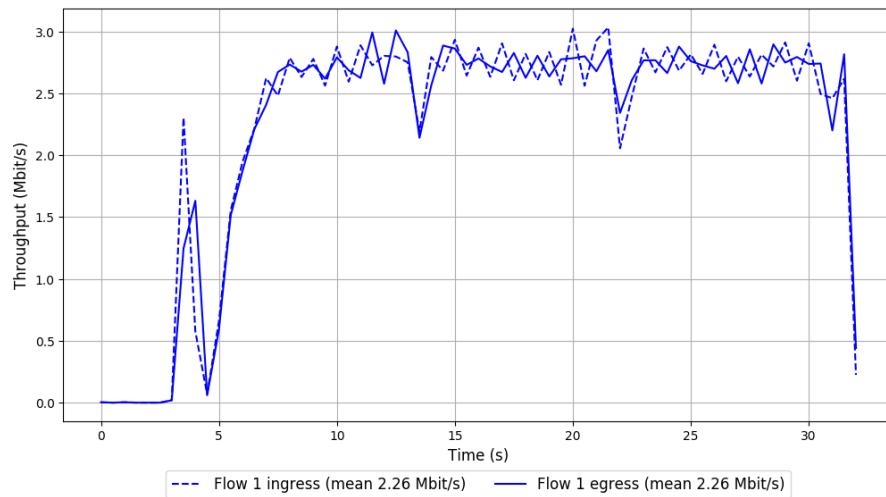


```
Run 6: Statistics of WebRTC media

Start at: 2017-09-18 05:21:03
End at: 2017-09-18 05:21:33

# Below is generated by plot.py at 2017-09-18 08:19:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 51.688 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 51.688 ms
Loss rate: 0.00%
```

Run 6: Report of WebRTC media — Data Link



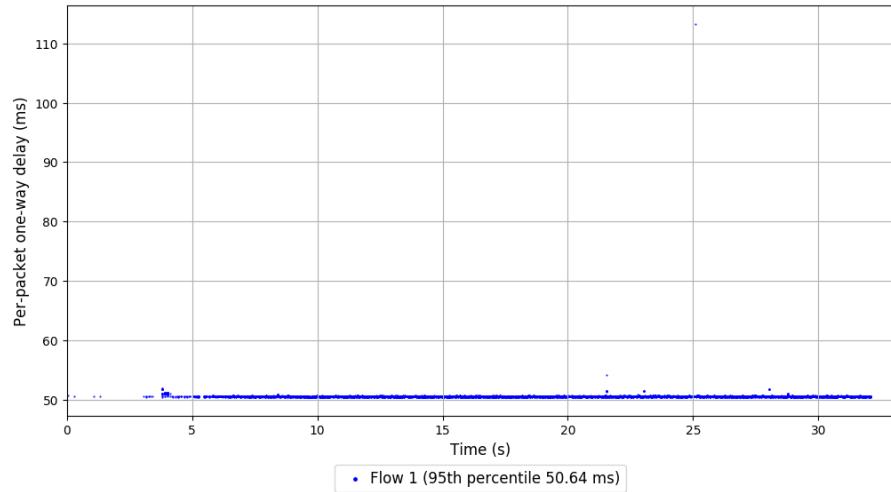
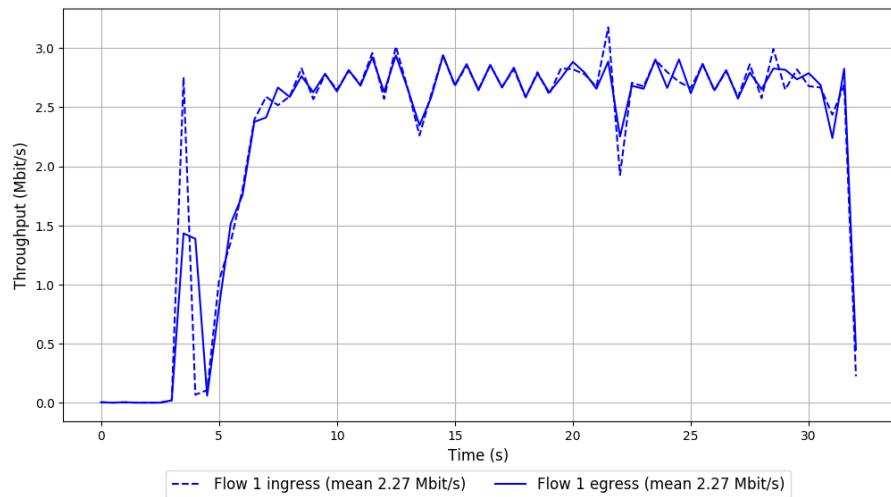
Run 7: Statistics of WebRTC media

Start at: 2017-09-18 05:32:20

End at: 2017-09-18 05:32:50

```
# Below is generated by plot.py at 2017-09-18 08:19:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 50.636 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 50.636 ms
Loss rate: 0.00%
```

Run 7: Report of WebRTC media — Data Link

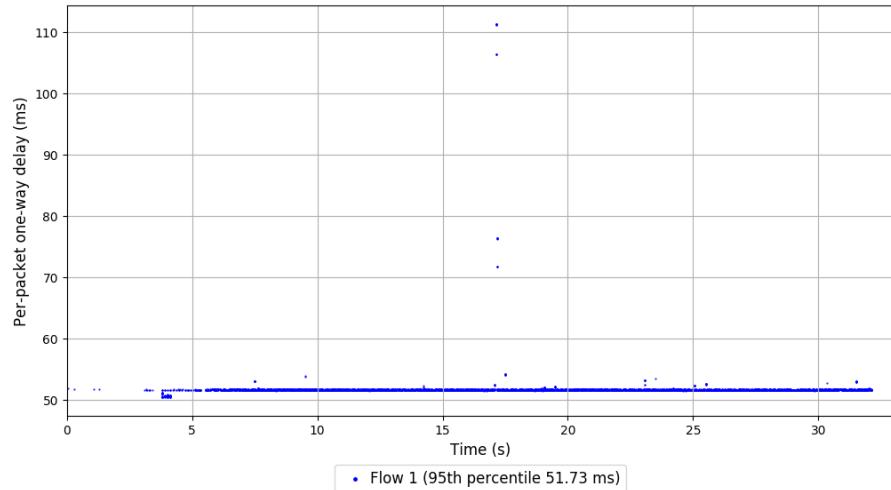
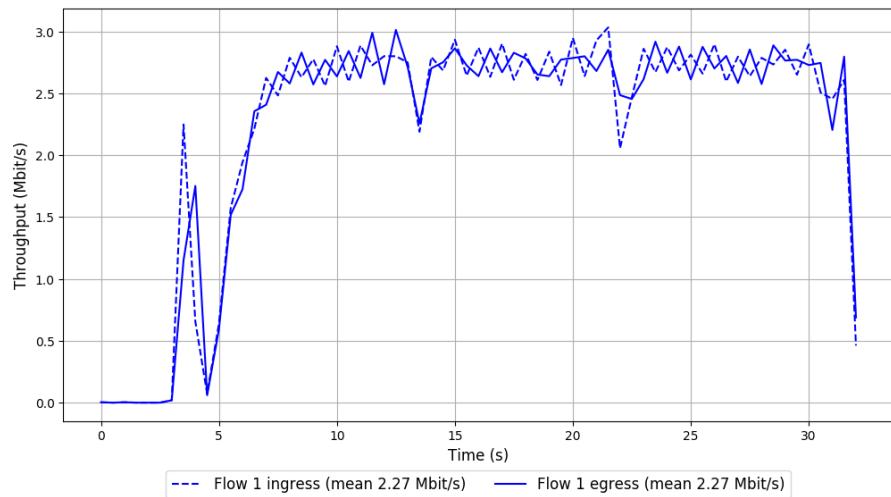


```
Run 8: Statistics of WebRTC media

Start at: 2017-09-18 05:43:32
End at: 2017-09-18 05:44:02

# Below is generated by plot.py at 2017-09-18 08:19:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 51.729 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 51.729 ms
Loss rate: 0.00%
```

Run 8: Report of WebRTC media — Data Link



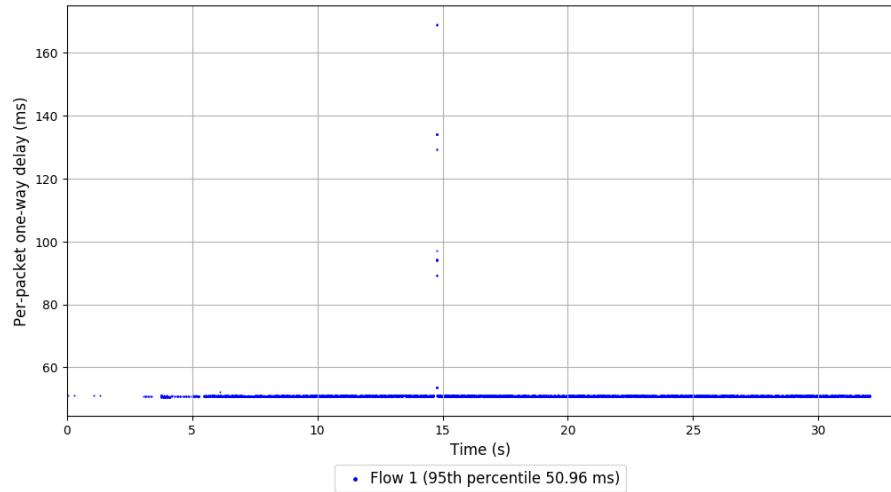
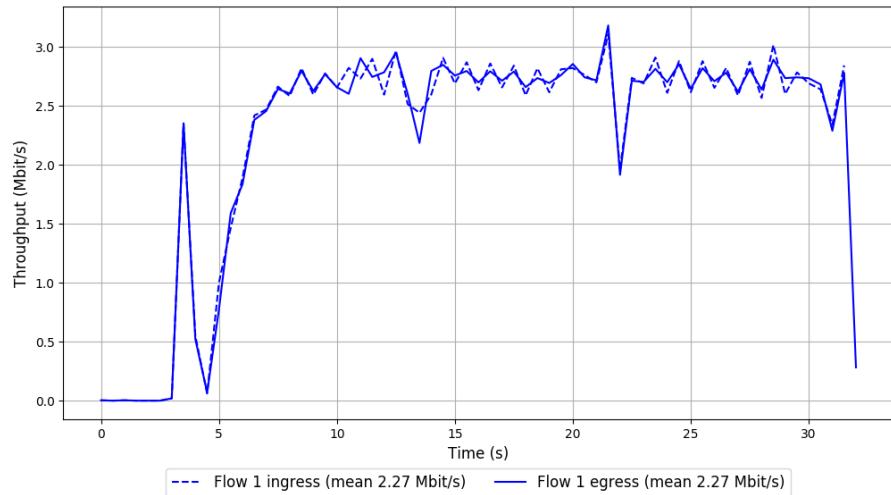
Run 9: Statistics of WebRTC media

Start at: 2017-09-18 05:54:50

End at: 2017-09-18 05:55:20

```
# Below is generated by plot.py at 2017-09-18 08:19:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 50.963 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 50.963 ms
Loss rate: 0.00%
```

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-09-18 06:06:07

End at: 2017-09-18 06:06:37

```
# Below is generated by plot.py at 2017-09-18 08:19:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 50.410 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 50.410 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link

