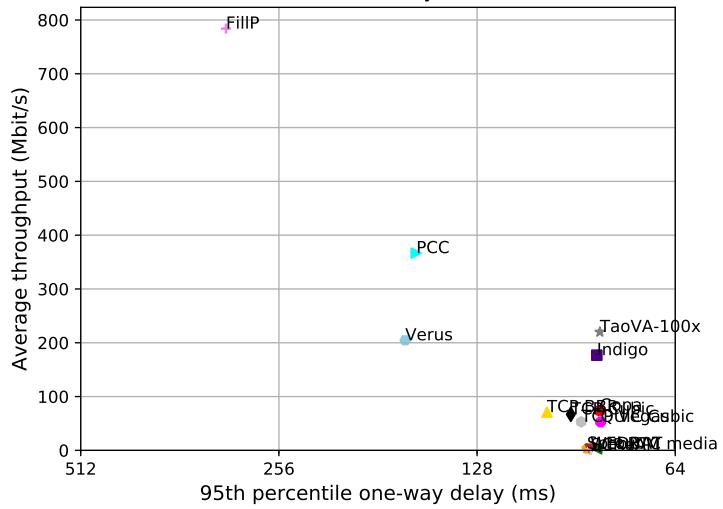


Pantheon Report

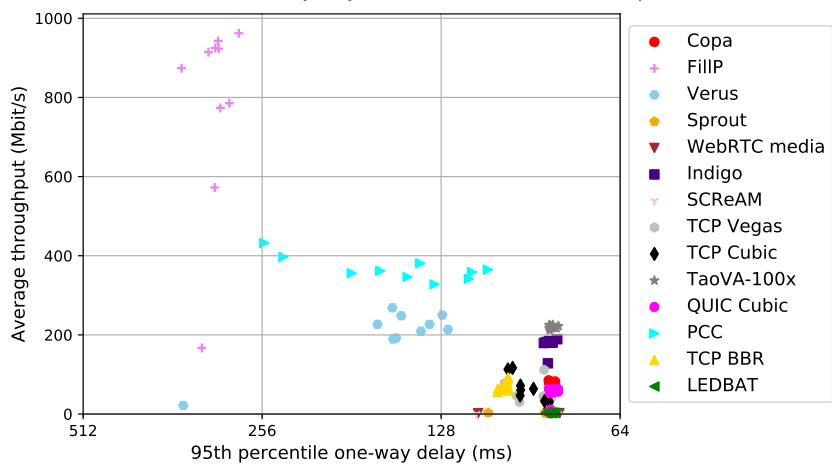
Generated at 2018-01-09 00:27:51 (UTC).
Data path: GCE Iowa Ethernet (*local*) → GCE Sydney Ethernet (*remote*).
Repeated the test of 14 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

```
Git summary:  
branch: master @ 56d1792c316a5efca3f2d21342905405fedffb48  
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50  
  M datagrump/sender.cc  
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67  
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8  
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55  
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89  
third_party/koho_cc @ f0f2e693303aeee82ea808e6928eac4f1083a6681  
  M datagrump/sender.cc  
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf  
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993  
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1  
  M receiver/src/buffer.h  
  M receiver/src/core.cpp  
  M sender/src/buffer.h  
  M sender/src/core.cpp  
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42  
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885  
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681  
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce  
  M src/examples/cellsim.cc  
  M src/examples/sproutbt2.cc  
  M src/network/sproutconn.cc  
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494  
  M src/verus.hpp  
  M tools/plot.py  
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE Iowa Ethernet to GCE Sydney Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE Iowa Ethernet to GCE Sydney 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	71.14	100.23	1.18
TCP Cubic	8	66.97	92.22	0.91
LEDBAT	10	2.86	84.25	1.30
PCC	10	366.61	158.33	1.12
QUIC Cubic	9	52.83	83.09	0.00
SCReAM	10	0.22	86.02	0.00
WebRTC media	10	2.15	86.14	0.00
Sprout	10	3.18	87.15	1.40
TaoVA-100x	10	220.01	83.30	0.07
TCP Vegas	9	53.01	88.92	0.61
Verus	10	204.60	164.60	2.68
Copa	9	73.97	83.32	0.00
FillP	10	783.97	308.09	3.62
Indigo	10	176.94	84.20	0.26

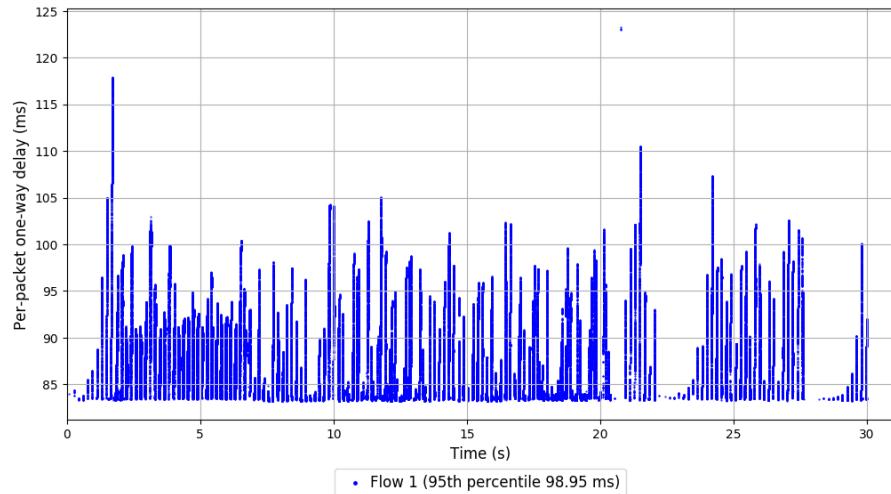
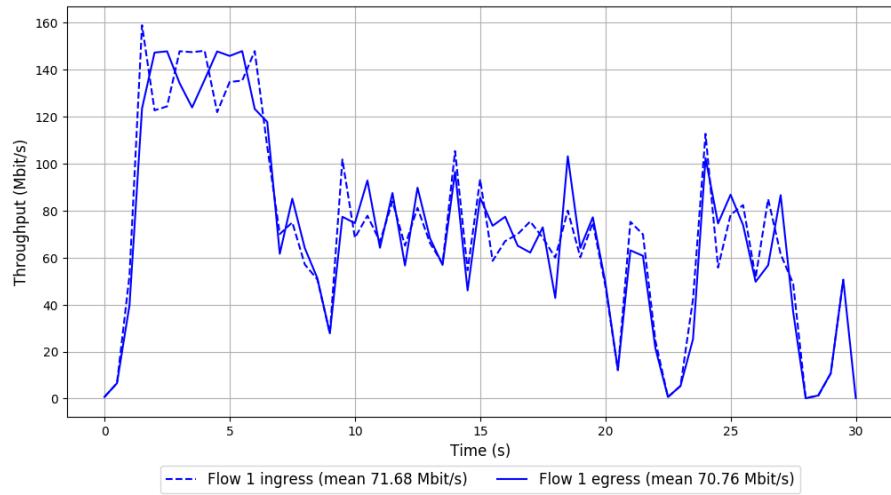
Run 1: Statistics of TCP BBR

Start at: 2018-01-08 20:55:38

End at: 2018-01-08 20:56:08

```
# Below is generated by plot.py at 2018-01-08 23:44:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.76 Mbit/s
95th percentile per-packet one-way delay: 98.950 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 70.76 Mbit/s
95th percentile per-packet one-way delay: 98.950 ms
Loss rate: 1.29%
```

Run 1: Report of TCP BBR — Data Link



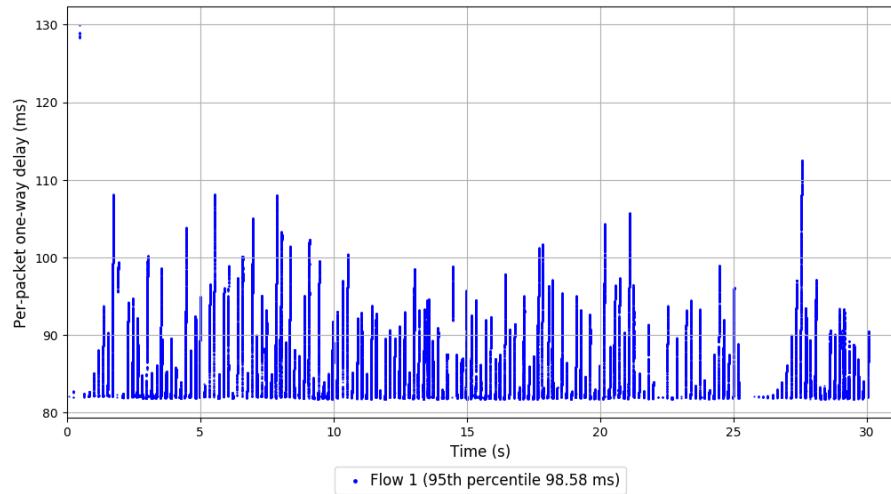
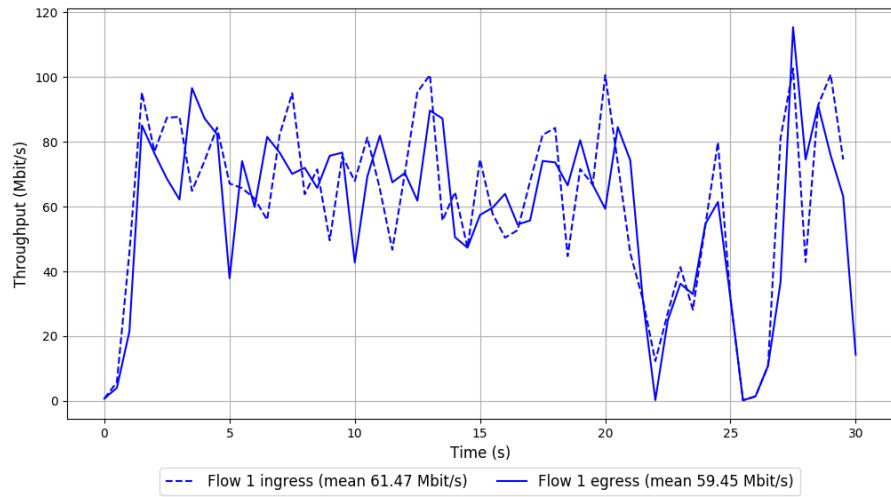
Run 2: Statistics of TCP BBR

Start at: 2018-01-08 21:07:46

End at: 2018-01-08 21:08:16

```
# Below is generated by plot.py at 2018-01-08 23:44:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.45 Mbit/s
95th percentile per-packet one-way delay: 98.575 ms
Loss rate: 3.26%
-- Flow 1:
Average throughput: 59.45 Mbit/s
95th percentile per-packet one-way delay: 98.575 ms
Loss rate: 3.26%
```

Run 2: Report of TCP BBR — Data Link



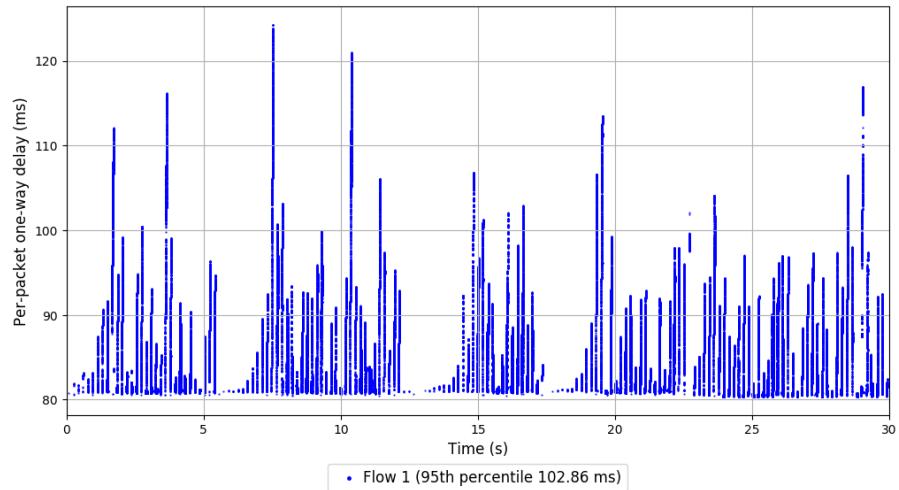
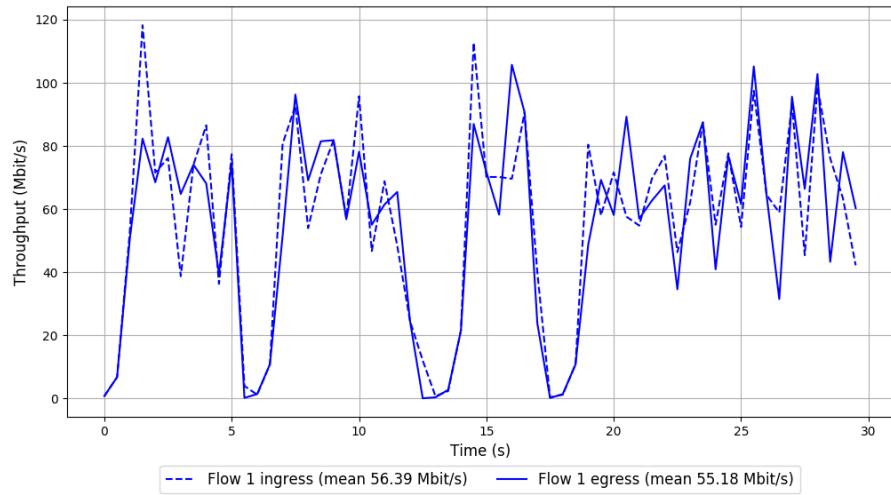
Run 3: Statistics of TCP BBR

Start at: 2018-01-08 21:19:52

End at: 2018-01-08 21:20:22

```
# Below is generated by plot.py at 2018-01-08 23:44:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.18 Mbit/s
95th percentile per-packet one-way delay: 102.859 ms
Loss rate: 2.16%
-- Flow 1:
Average throughput: 55.18 Mbit/s
95th percentile per-packet one-way delay: 102.859 ms
Loss rate: 2.16%
```

Run 3: Report of TCP BBR — Data Link



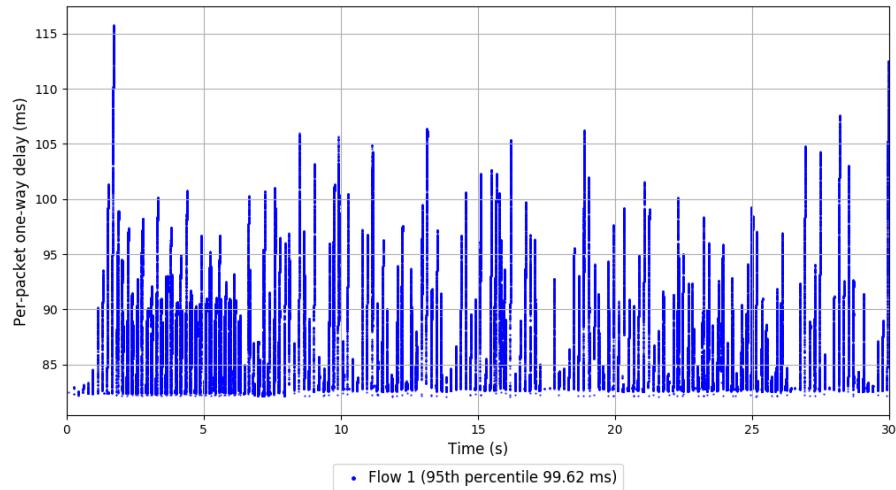
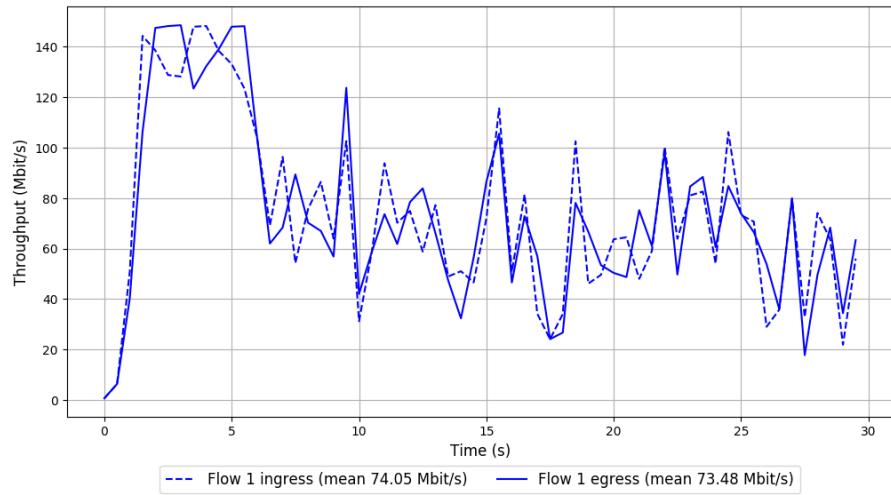
Run 4: Statistics of TCP BBR

Start at: 2018-01-08 21:31:57

End at: 2018-01-08 21:32:27

```
# Below is generated by plot.py at 2018-01-08 23:44:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.48 Mbit/s
95th percentile per-packet one-way delay: 99.619 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 73.48 Mbit/s
95th percentile per-packet one-way delay: 99.619 ms
Loss rate: 0.67%
```

Run 4: Report of TCP BBR — Data Link



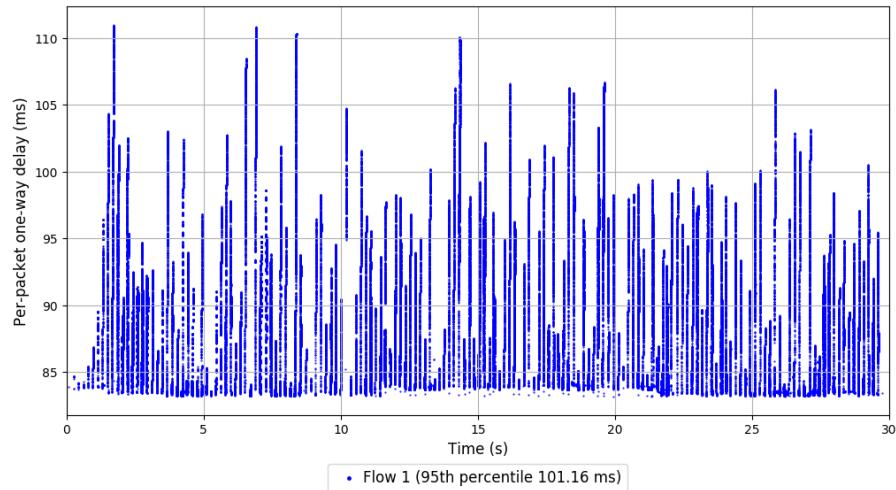
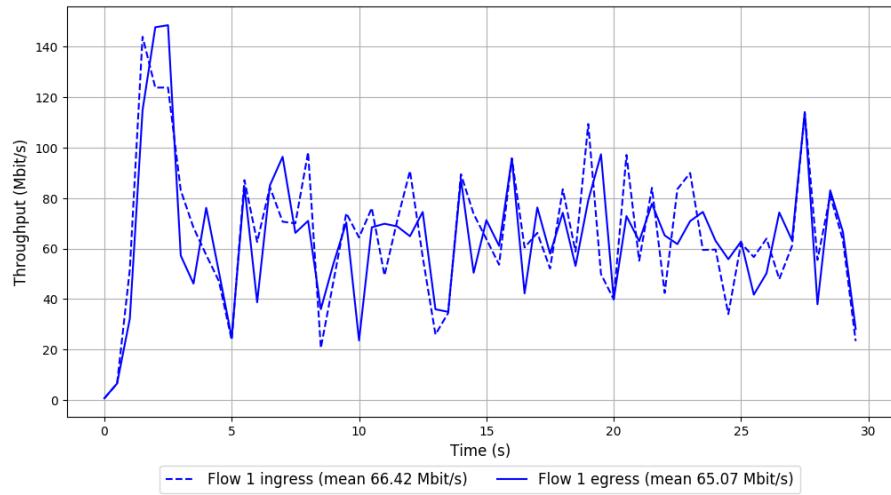
Run 5: Statistics of TCP BBR

Start at: 2018-01-08 21:43:33

End at: 2018-01-08 21:44:03

```
# Below is generated by plot.py at 2018-01-08 23:44:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.07 Mbit/s
95th percentile per-packet one-way delay: 101.162 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 65.07 Mbit/s
95th percentile per-packet one-way delay: 101.162 ms
Loss rate: 2.10%
```

Run 5: Report of TCP BBR — Data Link



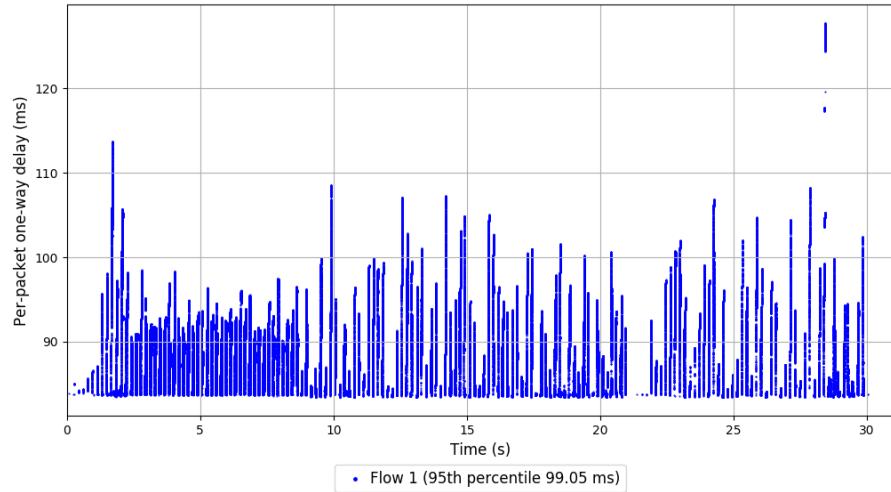
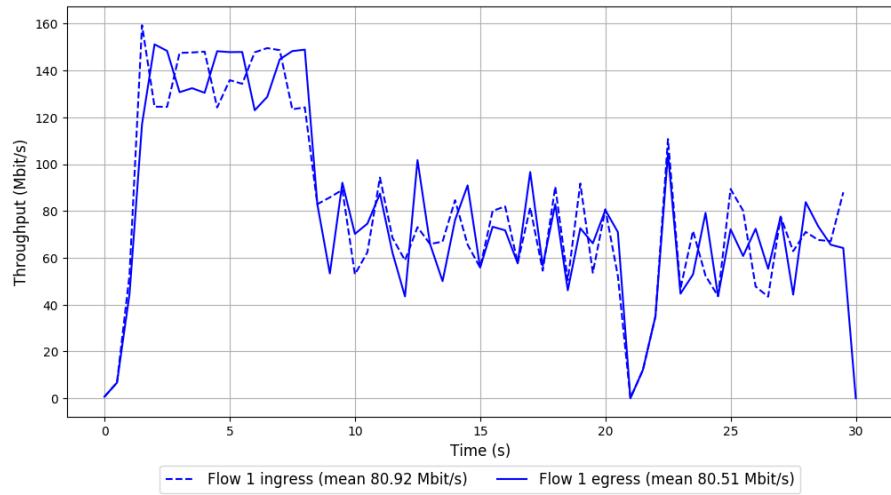
Run 6: Statistics of TCP BBR

Start at: 2018-01-08 21:55:34

End at: 2018-01-08 21:56:04

```
# Below is generated by plot.py at 2018-01-08 23:44:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.51 Mbit/s
95th percentile per-packet one-way delay: 99.052 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 80.51 Mbit/s
95th percentile per-packet one-way delay: 99.052 ms
Loss rate: 0.52%
```

Run 6: Report of TCP BBR — Data Link



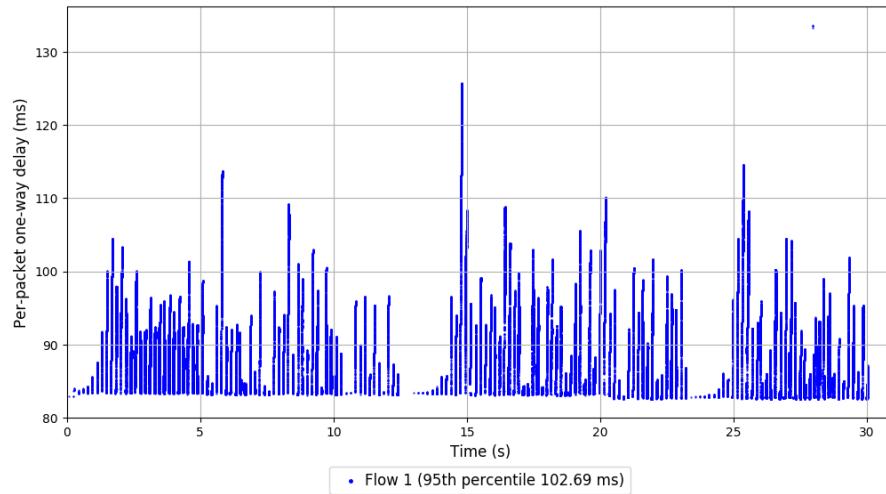
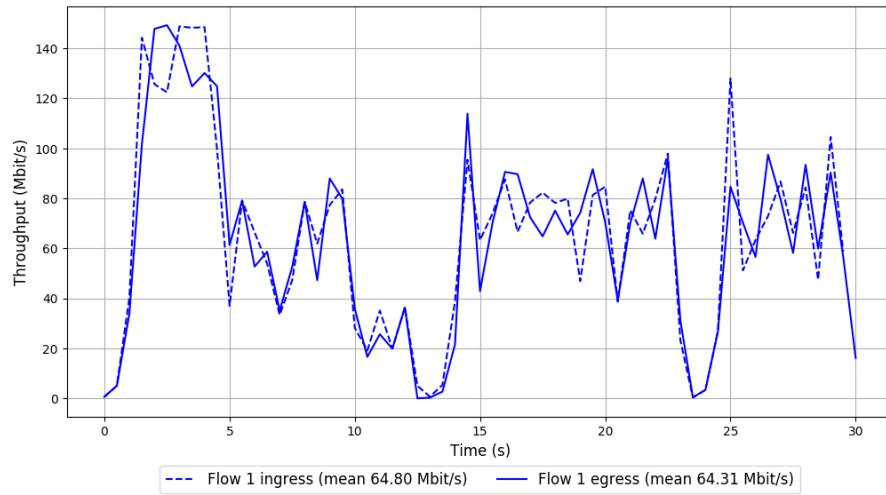
Run 7: Statistics of TCP BBR

Start at: 2018-01-08 22:07:25

End at: 2018-01-08 22:07:55

```
# Below is generated by plot.py at 2018-01-08 23:44:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.31 Mbit/s
95th percentile per-packet one-way delay: 102.692 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 64.31 Mbit/s
95th percentile per-packet one-way delay: 102.692 ms
Loss rate: 0.75%
```

Run 7: Report of TCP BBR — Data Link



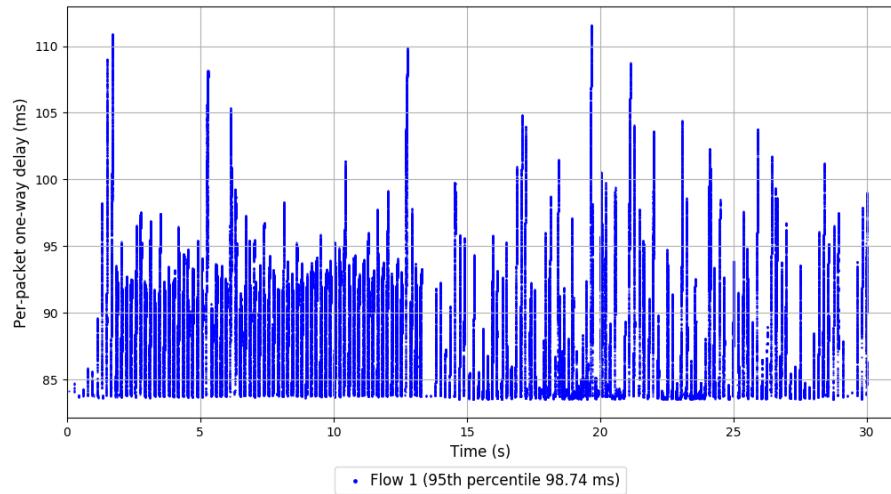
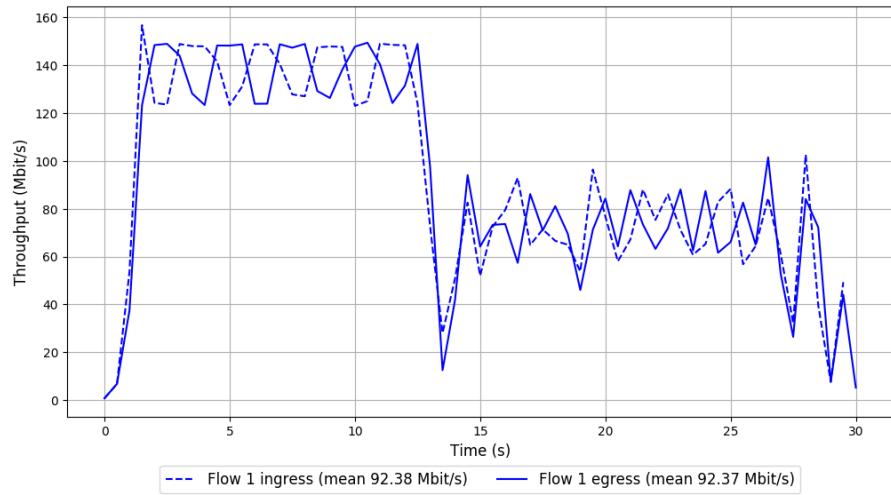
Run 8: Statistics of TCP BBR

Start at: 2018-01-08 22:19:37

End at: 2018-01-08 22:20:07

```
# Below is generated by plot.py at 2018-01-08 23:45:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.37 Mbit/s
95th percentile per-packet one-way delay: 98.743 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 92.37 Mbit/s
95th percentile per-packet one-way delay: 98.743 ms
Loss rate: 0.00%
```

Run 8: Report of TCP BBR — Data Link



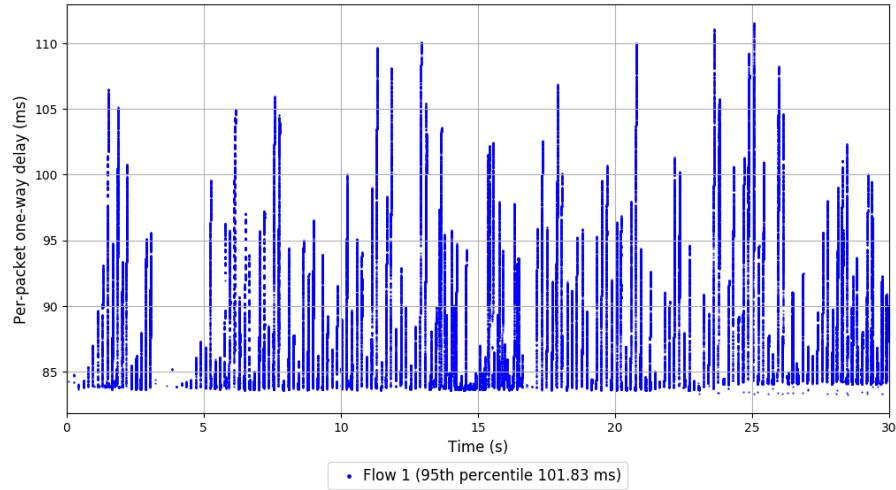
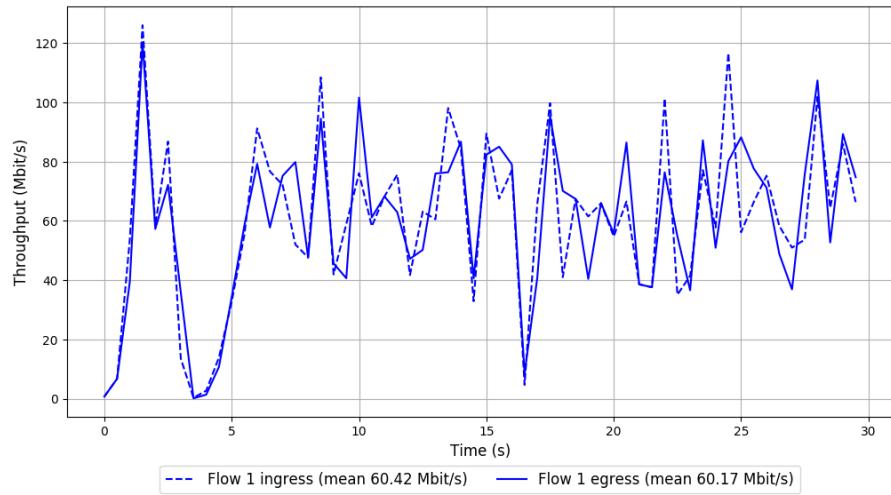
Run 9: Statistics of TCP BBR

Start at: 2018-01-08 22:31:51

End at: 2018-01-08 22:32:21

```
# Below is generated by plot.py at 2018-01-08 23:45:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.17 Mbit/s
95th percentile per-packet one-way delay: 101.830 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 60.17 Mbit/s
95th percentile per-packet one-way delay: 101.830 ms
Loss rate: 0.38%
```

Run 9: Report of TCP BBR — Data Link



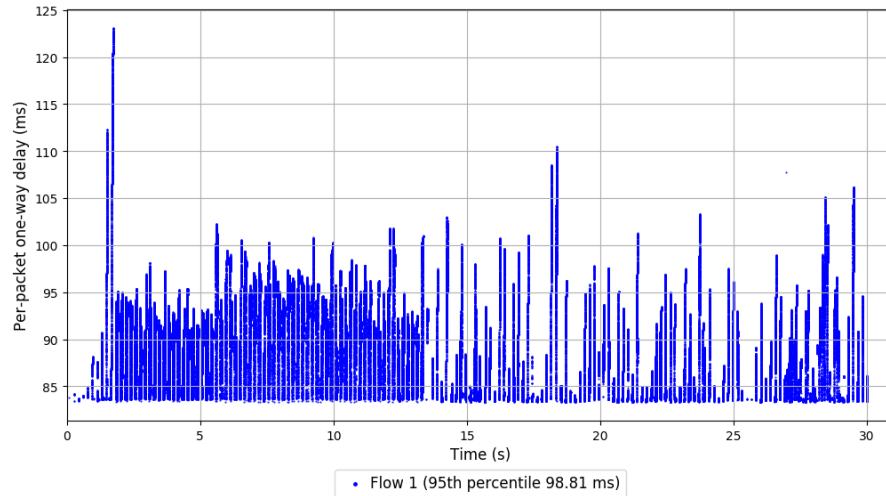
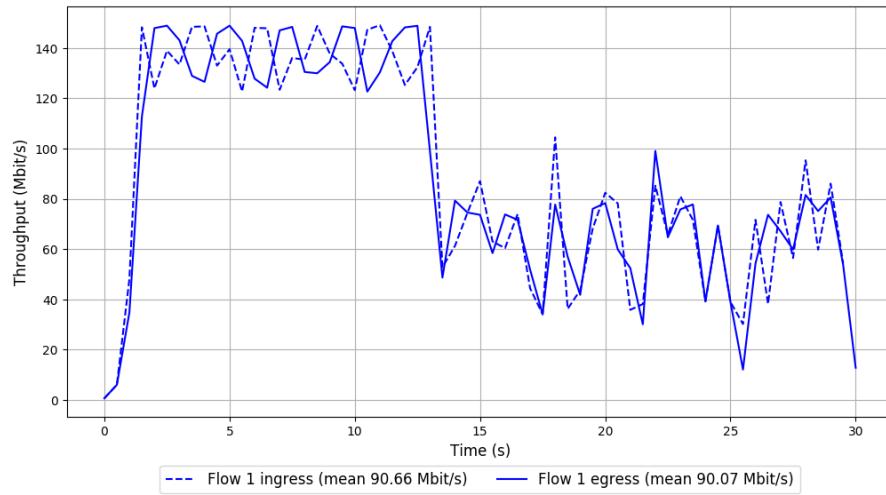
Run 10: Statistics of TCP BBR

Start at: 2018-01-08 22:43:48

End at: 2018-01-08 22:44:18

```
# Below is generated by plot.py at 2018-01-08 23:46:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.07 Mbit/s
95th percentile per-packet one-way delay: 98.809 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 90.07 Mbit/s
95th percentile per-packet one-way delay: 98.809 ms
Loss rate: 0.64%
```

Run 10: Report of TCP BBR — Data Link

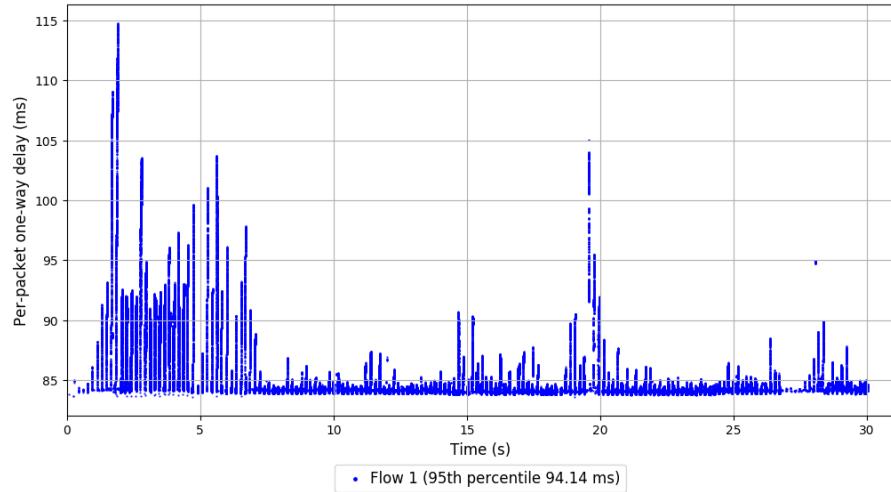
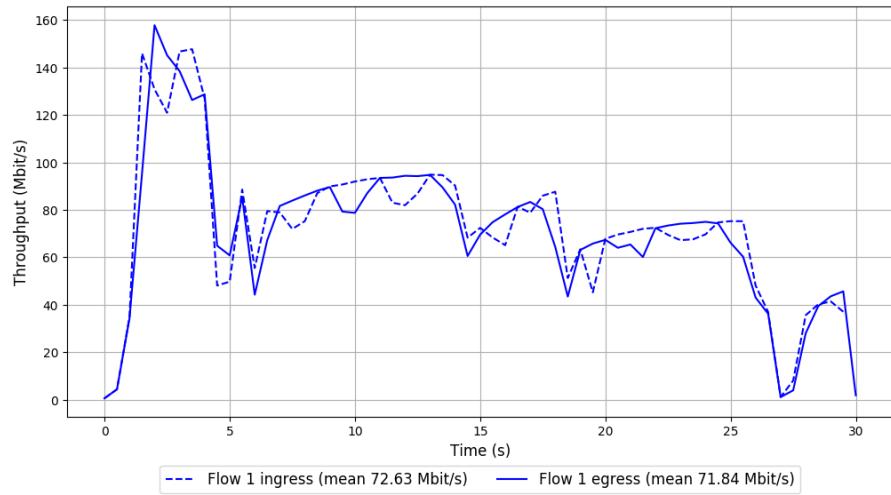


```
Run 1: Statistics of TCP Cubic

Start at: 2018-01-08 20:51:01
End at: 2018-01-08 20:51:31

# Below is generated by plot.py at 2018-01-08 23:46:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.84 Mbit/s
95th percentile per-packet one-way delay: 94.141 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 71.84 Mbit/s
95th percentile per-packet one-way delay: 94.141 ms
Loss rate: 1.09%
```

Run 1: Report of TCP Cubic — Data Link

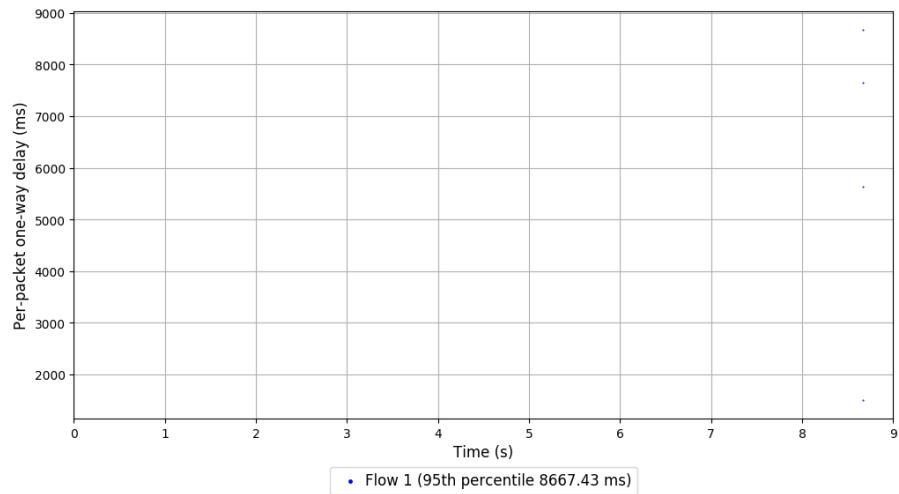
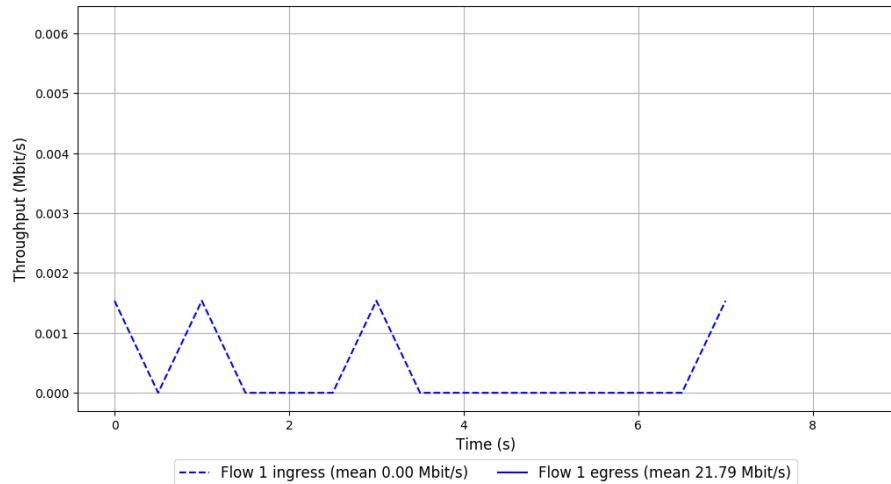


Run 2: Statistics of TCP Cubic

Start at: 2018-01-08 21:03:06

End at: 2018-01-08 21:03:36

Run 2: Report of TCP Cubic — Data Link

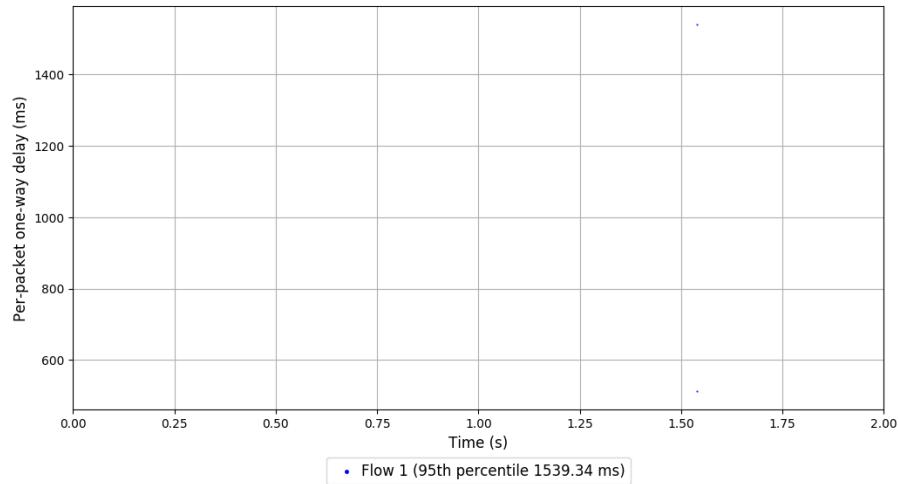
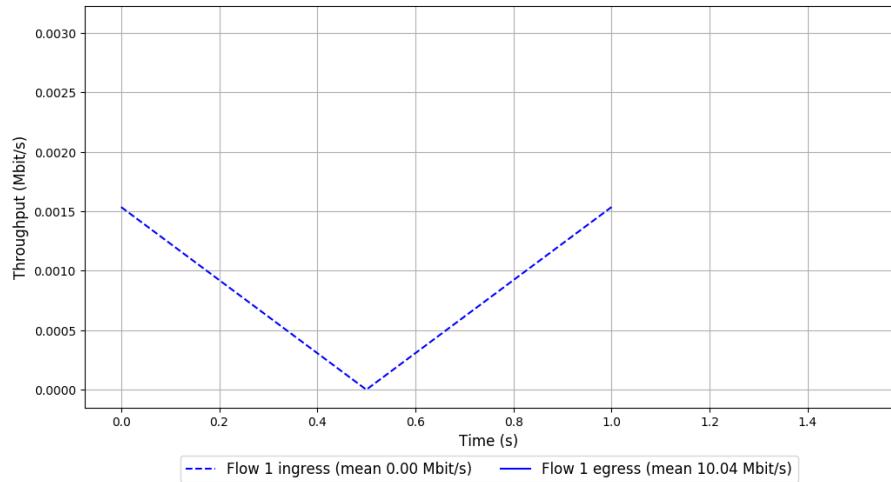


Run 3: Statistics of TCP Cubic

Start at: 2018-01-08 21:15:14

End at: 2018-01-08 21:15:44

Run 3: Report of TCP Cubic — Data Link



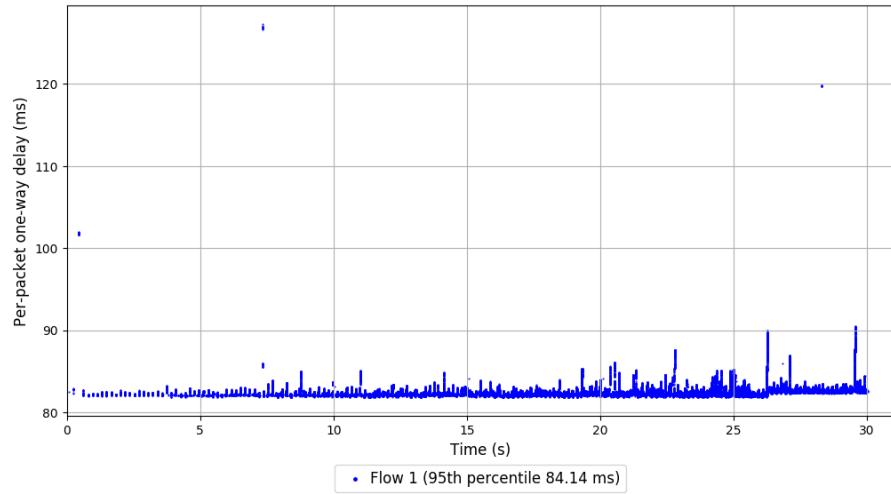
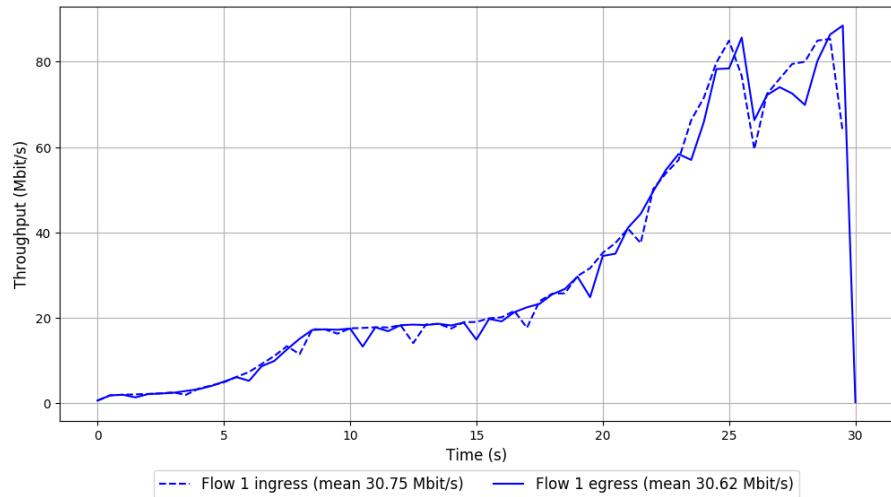
Run 4: Statistics of TCP Cubic

Start at: 2018-01-08 21:27:19

End at: 2018-01-08 21:27:49

```
# Below is generated by plot.py at 2018-01-08 23:46:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 30.62 Mbit/s
95th percentile per-packet one-way delay: 84.145 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 30.62 Mbit/s
95th percentile per-packet one-way delay: 84.145 ms
Loss rate: 0.42%
```

Run 4: Report of TCP Cubic — Data Link



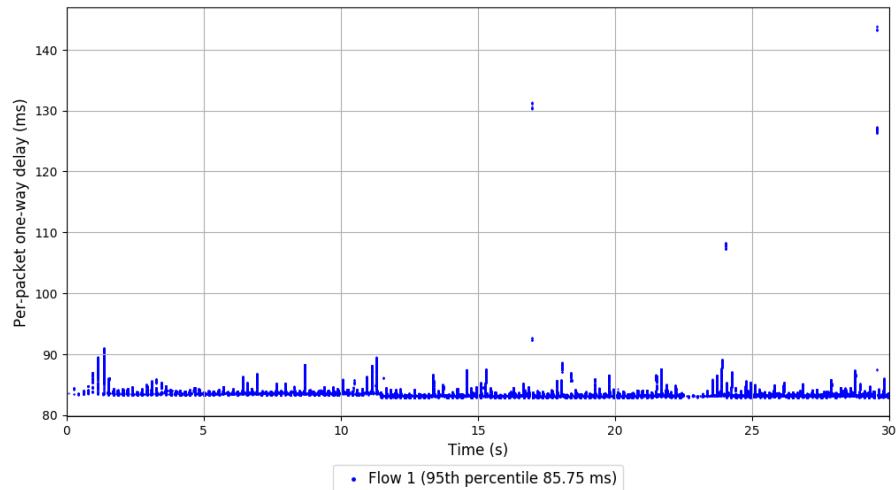
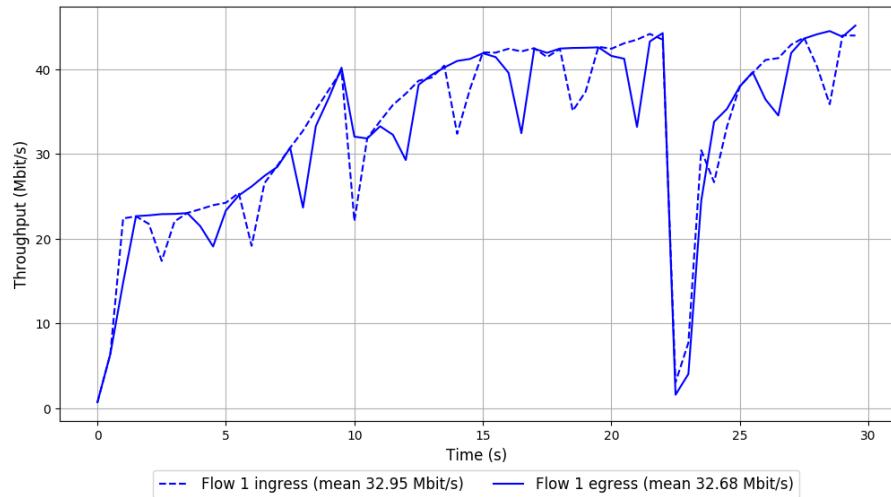
Run 5: Statistics of TCP Cubic

Start at: 2018-01-08 21:38:53

End at: 2018-01-08 21:39:24

```
# Below is generated by plot.py at 2018-01-08 23:46:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.68 Mbit/s
95th percentile per-packet one-way delay: 85.753 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 32.68 Mbit/s
95th percentile per-packet one-way delay: 85.753 ms
Loss rate: 0.84%
```

Run 5: Report of TCP Cubic — Data Link

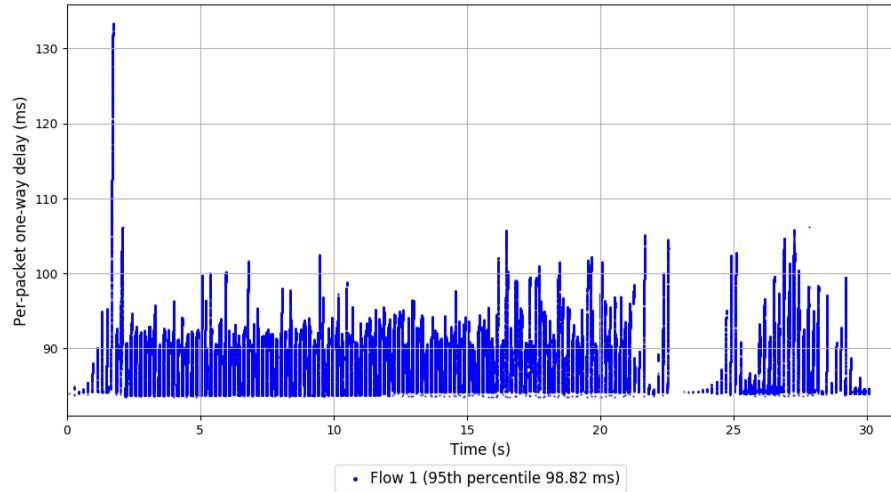
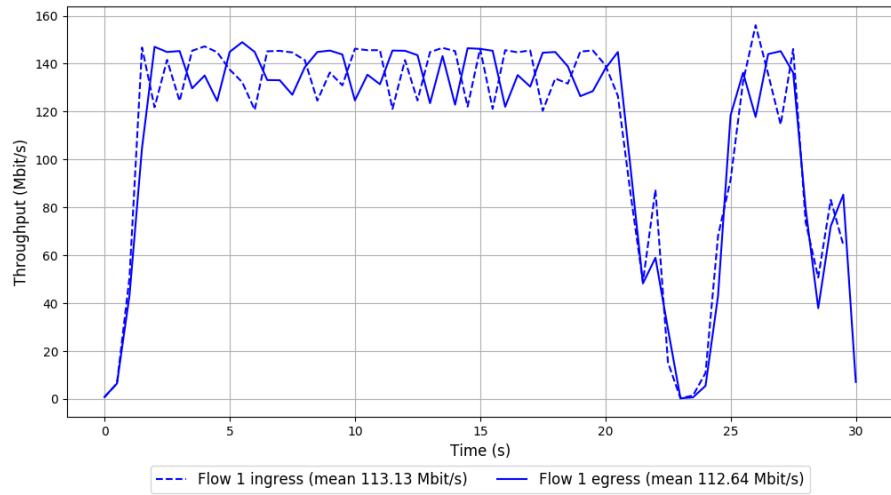


```
Run 6: Statistics of TCP Cubic

Start at: 2018-01-08 21:51:03
End at: 2018-01-08 21:51:33

# Below is generated by plot.py at 2018-01-08 23:46:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 112.64 Mbit/s
95th percentile per-packet one-way delay: 98.822 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 112.64 Mbit/s
95th percentile per-packet one-way delay: 98.822 ms
Loss rate: 0.43%
```

Run 6: Report of TCP Cubic — Data Link

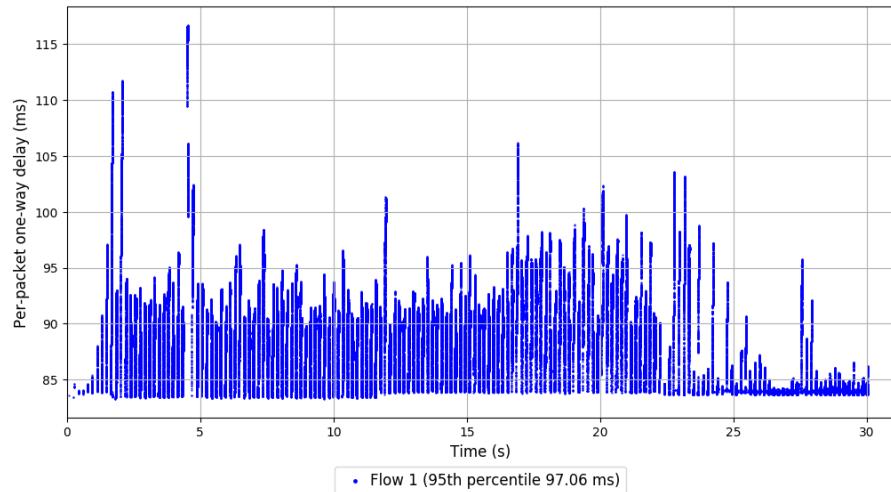
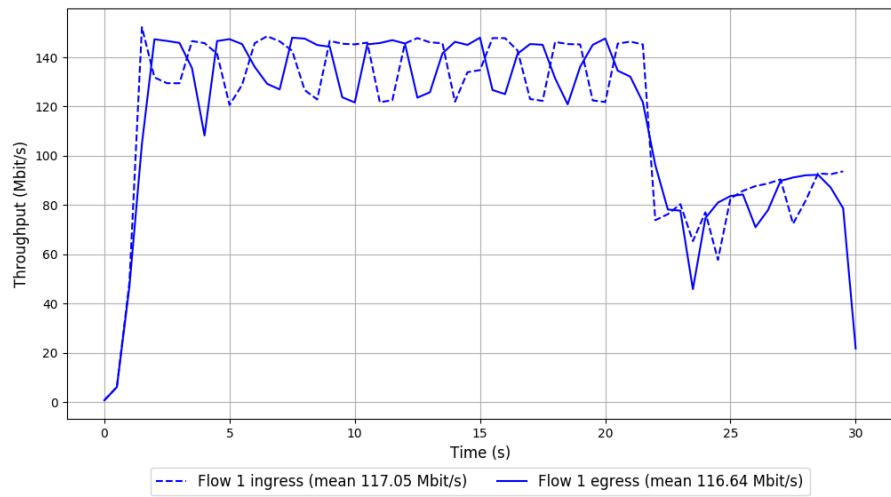


```
Run 7: Statistics of TCP Cubic

Start at: 2018-01-08 22:02:43
End at: 2018-01-08 22:03:13

# Below is generated by plot.py at 2018-01-08 23:46:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 116.64 Mbit/s
95th percentile per-packet one-way delay: 97.062 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 116.64 Mbit/s
95th percentile per-packet one-way delay: 97.062 ms
Loss rate: 0.35%
```

Run 7: Report of TCP Cubic — Data Link



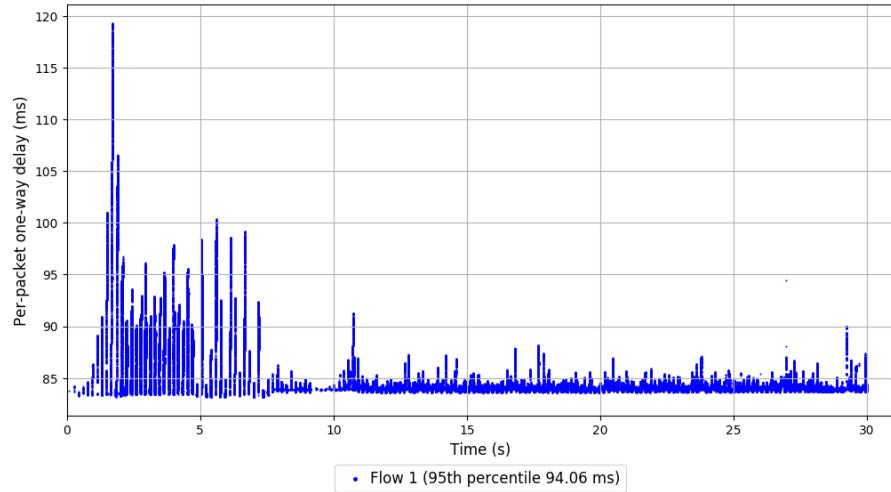
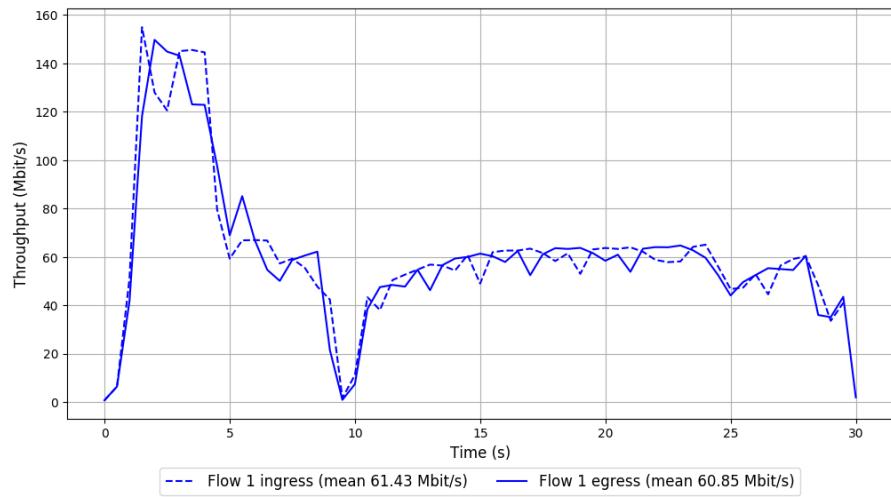
Run 8: Statistics of TCP Cubic

Start at: 2018-01-08 22:14:57

End at: 2018-01-08 22:15:27

```
# Below is generated by plot.py at 2018-01-08 23:46:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.85 Mbit/s
95th percentile per-packet one-way delay: 94.064 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 60.85 Mbit/s
95th percentile per-packet one-way delay: 94.064 ms
Loss rate: 0.94%
```

Run 8: Report of TCP Cubic — Data Link

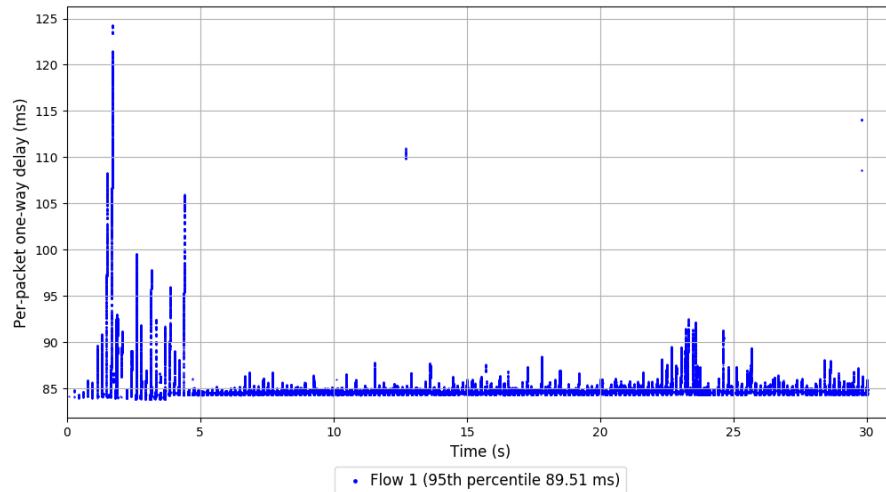
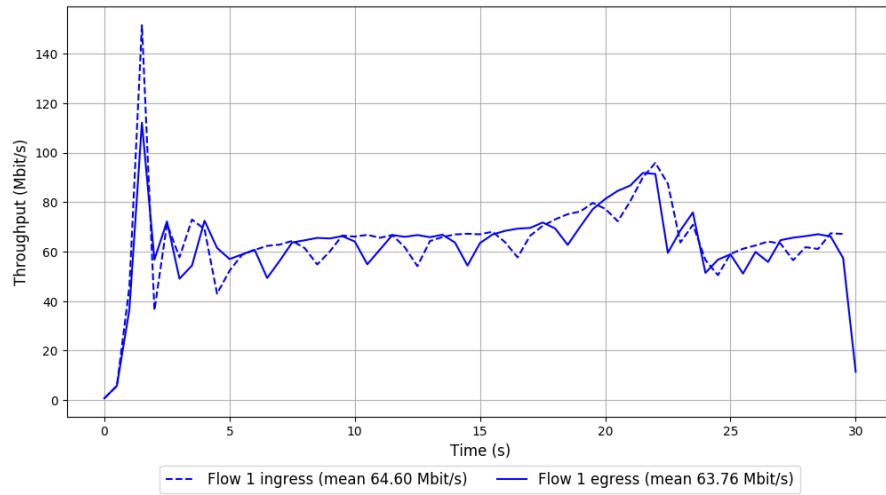


```
Run 9: Statistics of TCP Cubic

Start at: 2018-01-08 22:27:11
End at: 2018-01-08 22:27:41

# Below is generated by plot.py at 2018-01-08 23:46:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.76 Mbit/s
95th percentile per-packet one-way delay: 89.509 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 63.76 Mbit/s
95th percentile per-packet one-way delay: 89.509 ms
Loss rate: 1.28%
```

Run 9: Report of TCP Cubic — Data Link



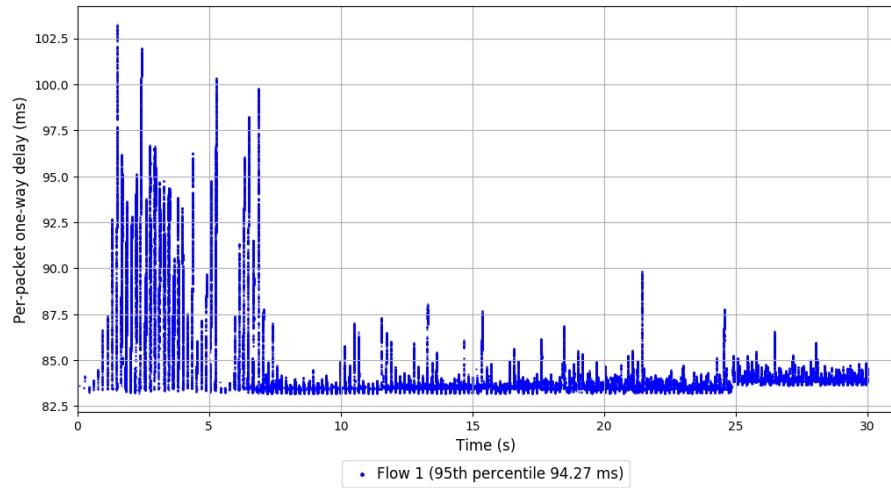
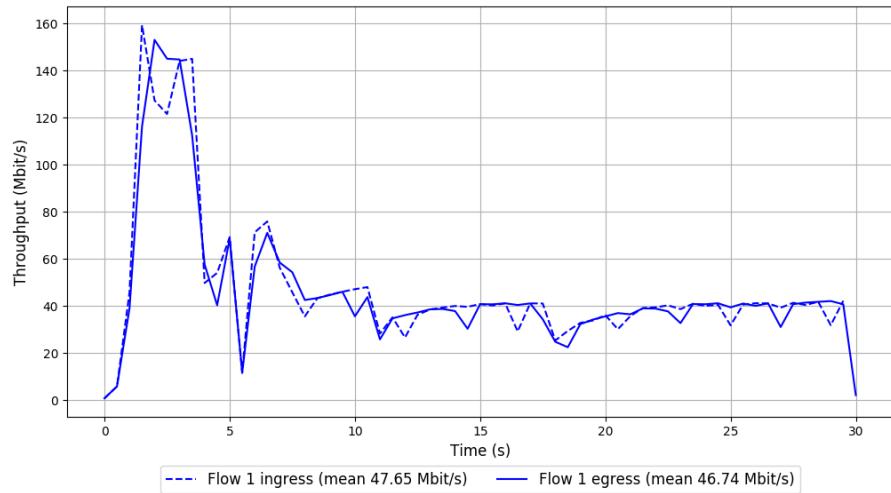
Run 10: Statistics of TCP Cubic

Start at: 2018-01-08 22:39:10

End at: 2018-01-08 22:39:40

```
# Below is generated by plot.py at 2018-01-08 23:46:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.74 Mbit/s
95th percentile per-packet one-way delay: 94.265 ms
Loss rate: 1.91%
-- Flow 1:
Average throughput: 46.74 Mbit/s
95th percentile per-packet one-way delay: 94.265 ms
Loss rate: 1.91%
```

Run 10: Report of TCP Cubic — Data Link

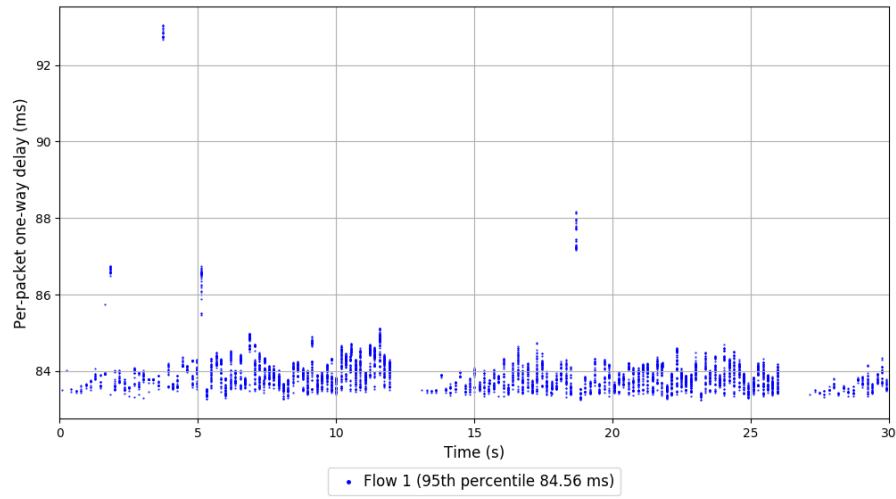
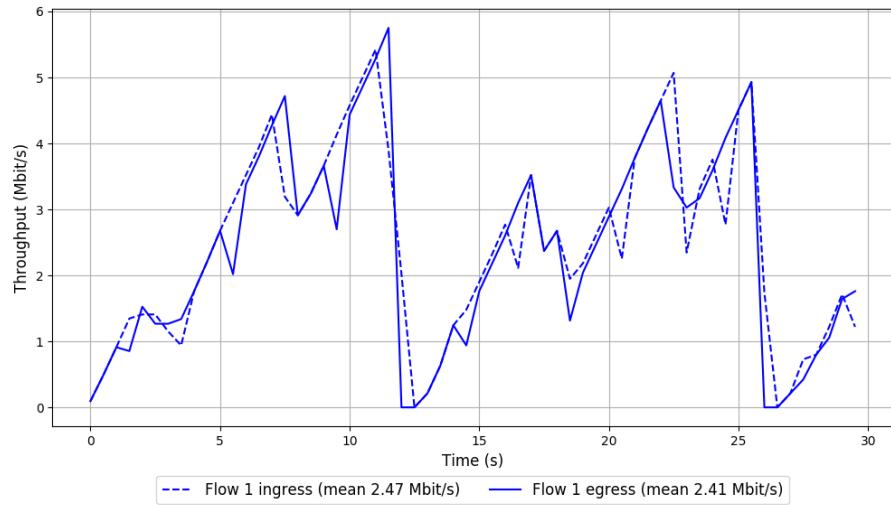


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-08 20:56:23
End at: 2018-01-08 20:56:53

# Below is generated by plot.py at 2018-01-08 23:46:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 84.561 ms
Loss rate: 2.58%
-- Flow 1:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 84.561 ms
Loss rate: 2.58%
```

Run 1: Report of LEDBAT — Data Link



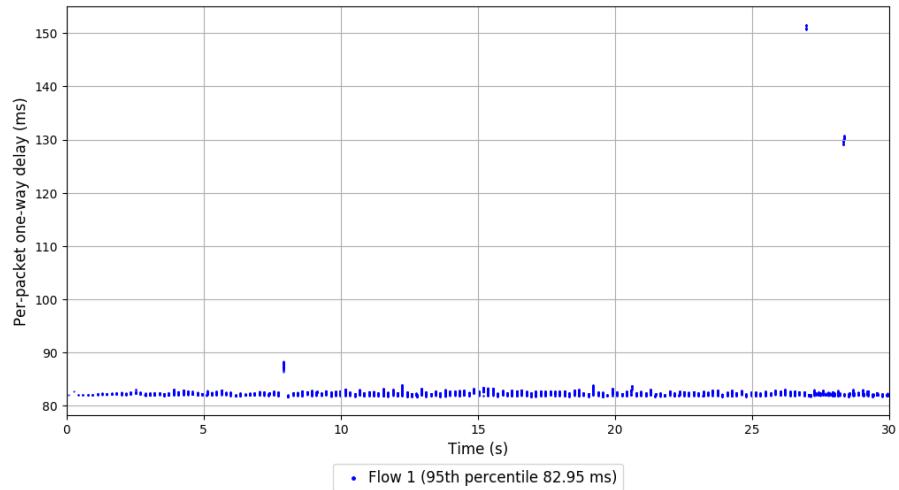
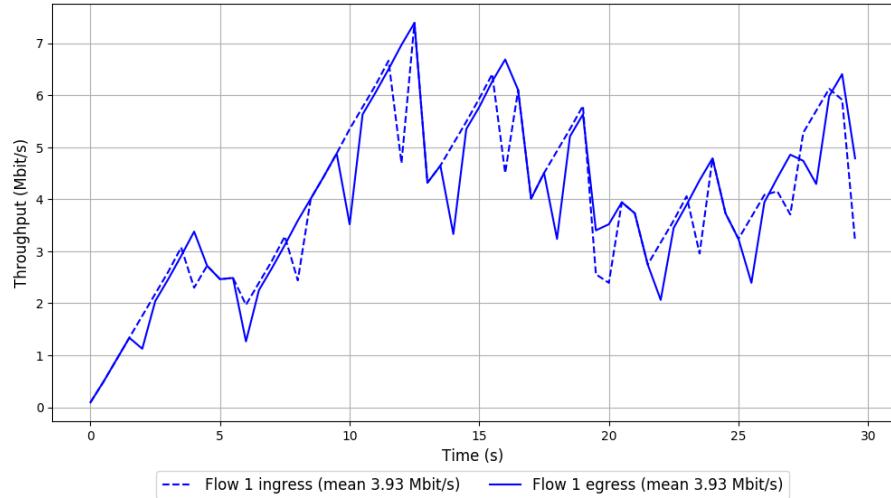
Run 2: Statistics of LEDBAT

Start at: 2018-01-08 21:08:29

End at: 2018-01-08 21:08:59

```
# Below is generated by plot.py at 2018-01-08 23:46:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.93 Mbit/s
95th percentile per-packet one-way delay: 82.955 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 3.93 Mbit/s
95th percentile per-packet one-way delay: 82.955 ms
Loss rate: 0.01%
```

Run 2: Report of LEDBAT — Data Link



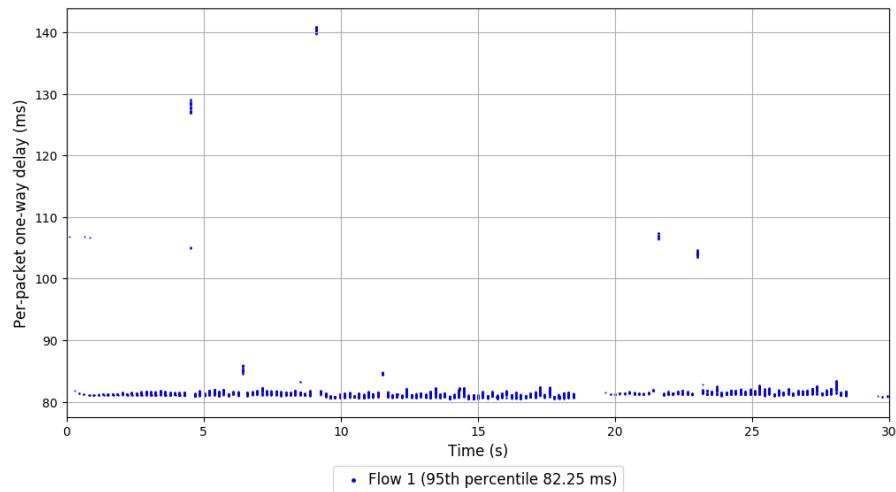
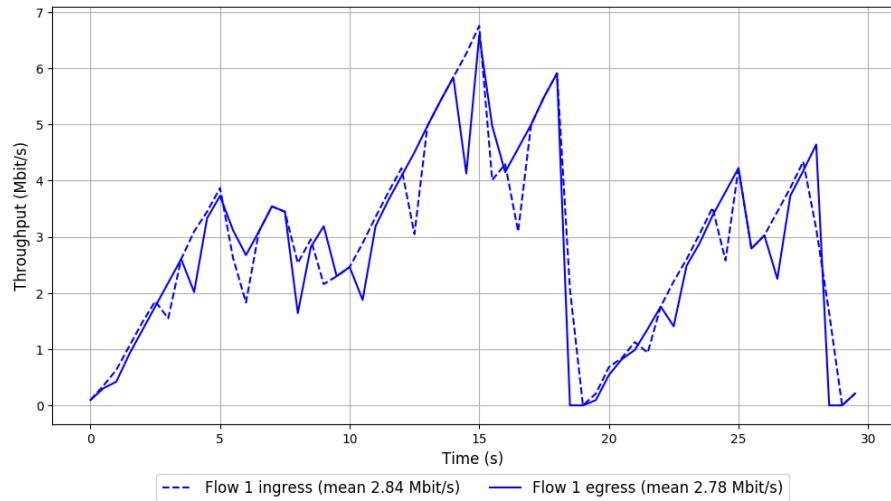
```
Run 3: Statistics of LEDBAT
```

```
Start at: 2018-01-08 21:20:36
```

```
End at: 2018-01-08 21:21:06
```

```
# Below is generated by plot.py at 2018-01-08 23:46:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.78 Mbit/s
95th percentile per-packet one-way delay: 82.252 ms
Loss rate: 2.19%
-- Flow 1:
Average throughput: 2.78 Mbit/s
95th percentile per-packet one-way delay: 82.252 ms
Loss rate: 2.19%
```

Run 3: Report of LEDBAT — Data Link



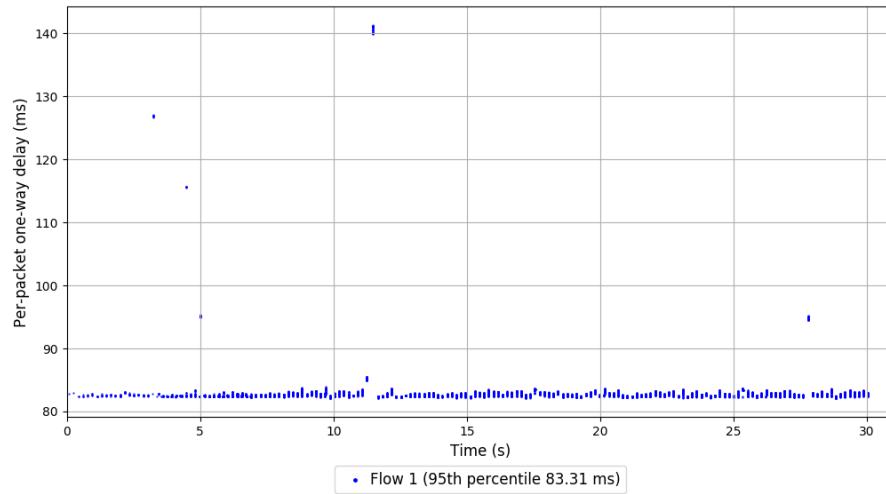
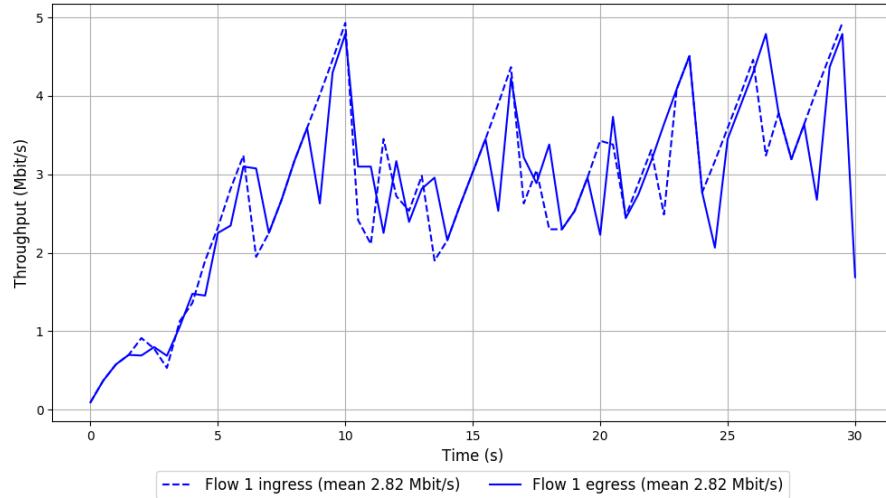
Run 4: Statistics of LEDBAT

Start at: 2018-01-08 21:32:41

End at: 2018-01-08 21:33:11

```
# Below is generated by plot.py at 2018-01-08 23:46:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.82 Mbit/s
95th percentile per-packet one-way delay: 83.307 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.82 Mbit/s
95th percentile per-packet one-way delay: 83.307 ms
Loss rate: 0.01%
```

Run 4: Report of LEDBAT — Data Link



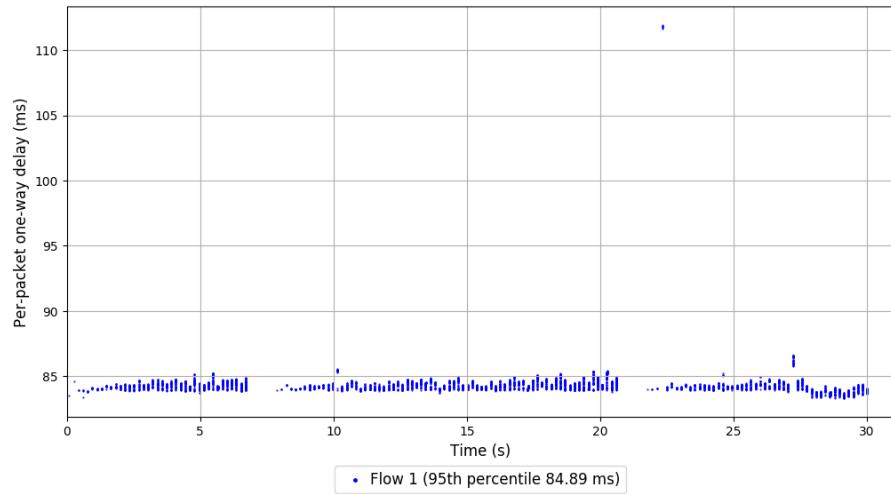
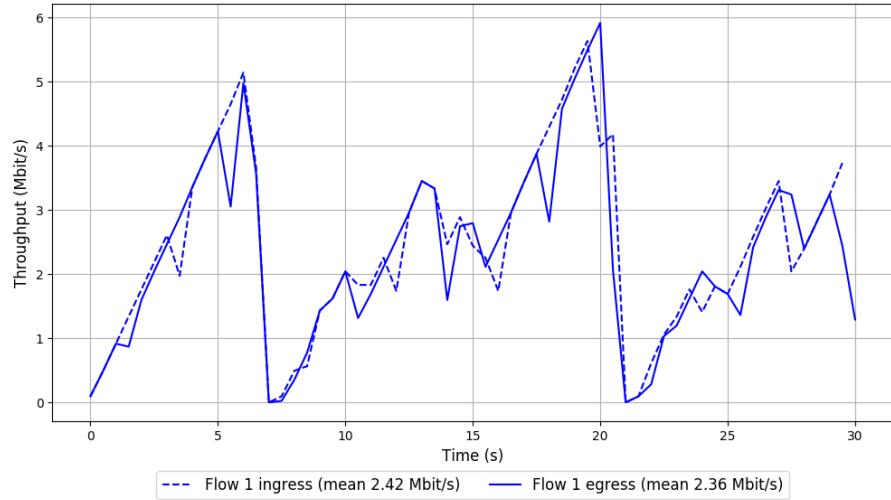
```
Run 5: Statistics of LEDBAT
```

```
Start at: 2018-01-08 21:44:17
```

```
End at: 2018-01-08 21:44:47
```

```
# Below is generated by plot.py at 2018-01-08 23:46:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 84.885 ms
Loss rate: 2.73%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 84.885 ms
Loss rate: 2.73%
```

Run 5: Report of LEDBAT — Data Link

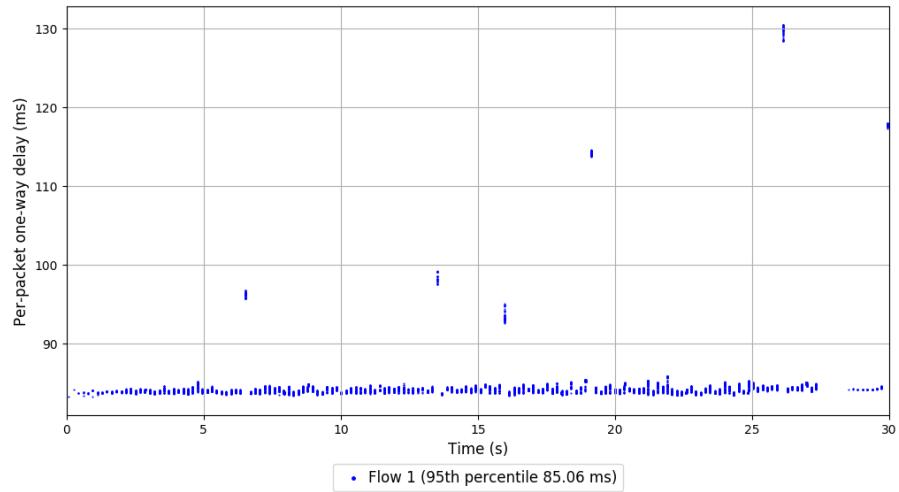
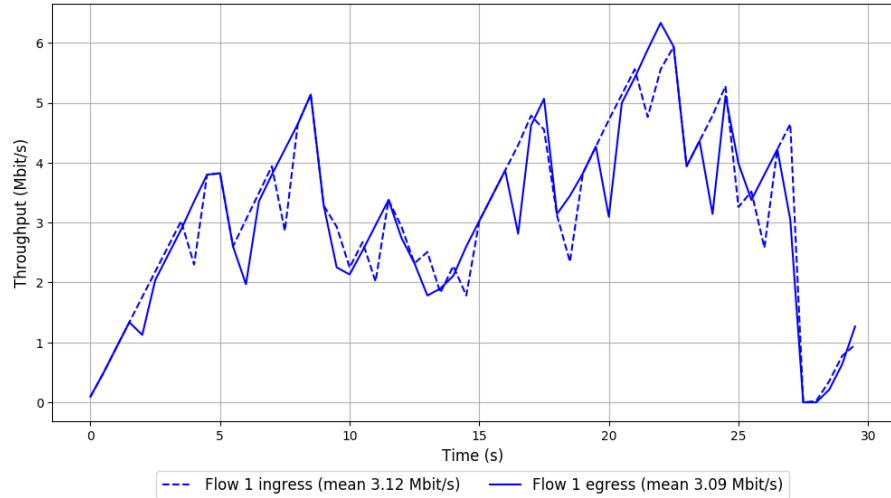


```
Run 6: Statistics of LEDBAT

Start at: 2018-01-08 21:56:20
End at: 2018-01-08 21:56:50

# Below is generated by plot.py at 2018-01-08 23:46:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.09 Mbit/s
95th percentile per-packet one-way delay: 85.061 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 3.09 Mbit/s
95th percentile per-packet one-way delay: 85.061 ms
Loss rate: 0.96%
```

Run 6: Report of LEDBAT — Data Link

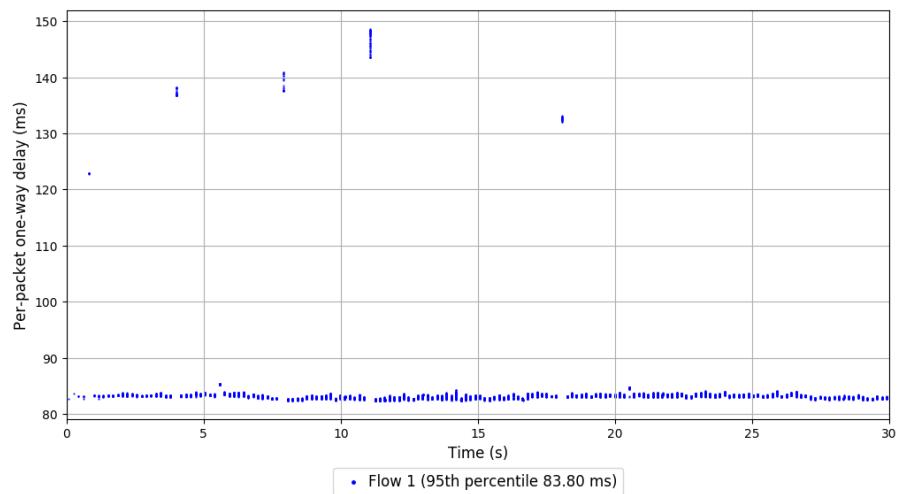
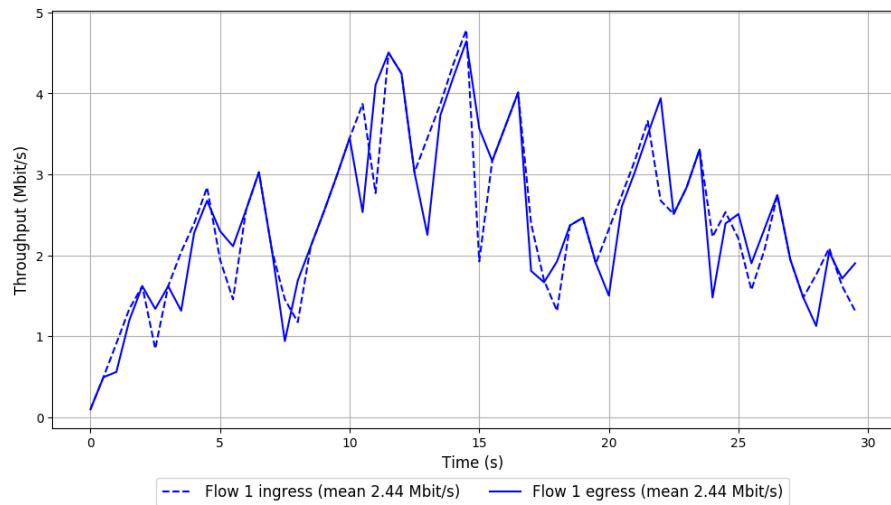


```
Run 7: Statistics of LEDBAT

Start at: 2018-01-08 22:08:08
End at: 2018-01-08 22:08:38

# Below is generated by plot.py at 2018-01-08 23:46:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.44 Mbit/s
95th percentile per-packet one-way delay: 83.797 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.44 Mbit/s
95th percentile per-packet one-way delay: 83.797 ms
Loss rate: 0.00%
```

Run 7: Report of LEDBAT — Data Link



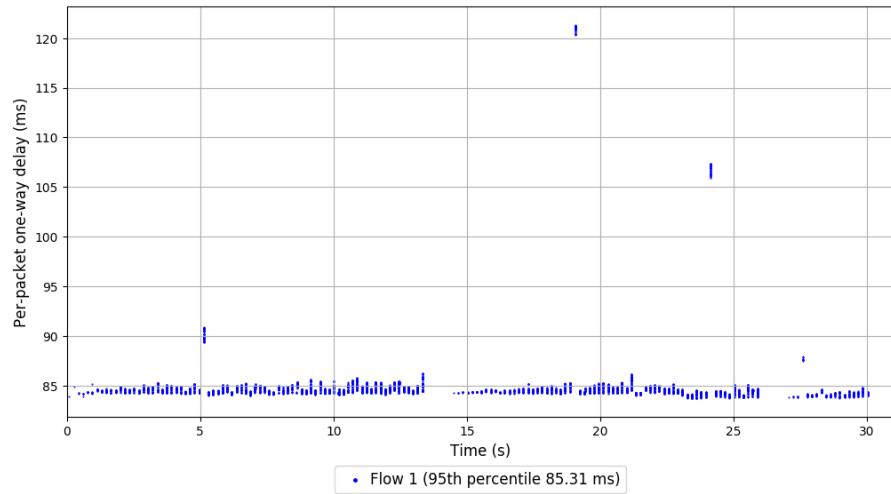
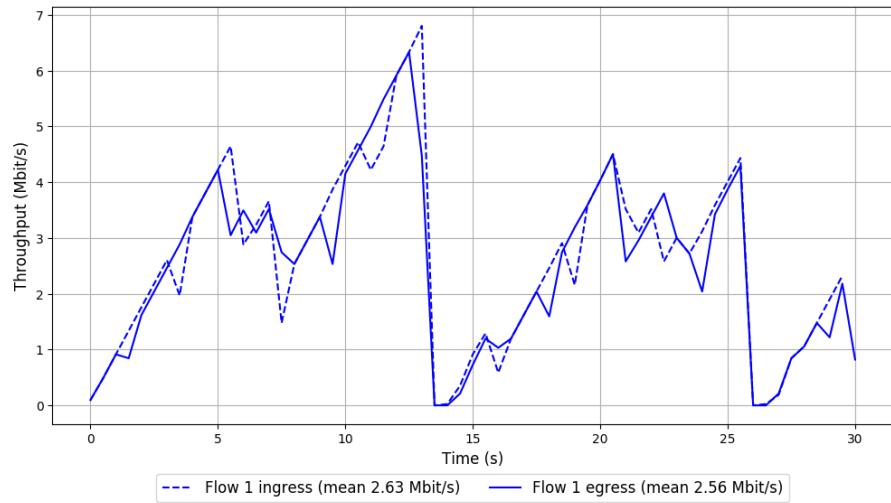
```
Run 8: Statistics of LEDBAT
```

```
Start at: 2018-01-08 22:20:22
```

```
End at: 2018-01-08 22:20:52
```

```
# Below is generated by plot.py at 2018-01-08 23:46:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 85.310 ms
Loss rate: 2.44%
-- Flow 1:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 85.310 ms
Loss rate: 2.44%
```

Run 8: Report of LEDBAT — Data Link



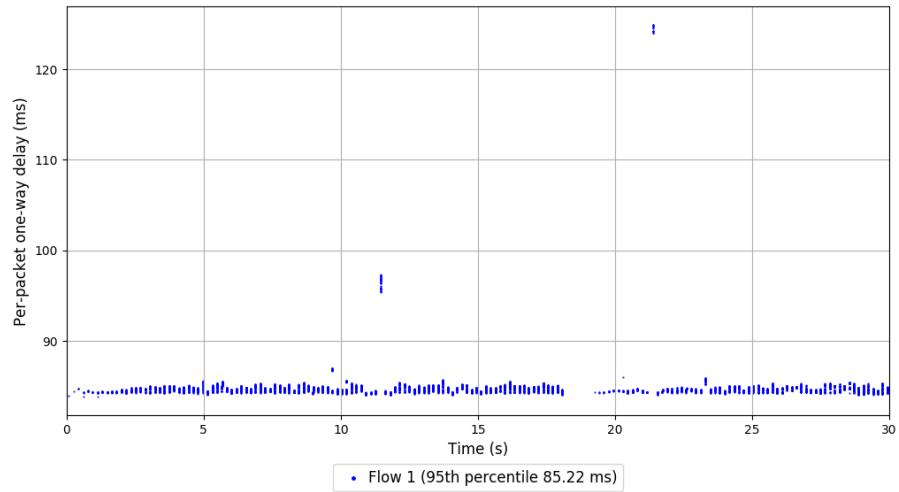
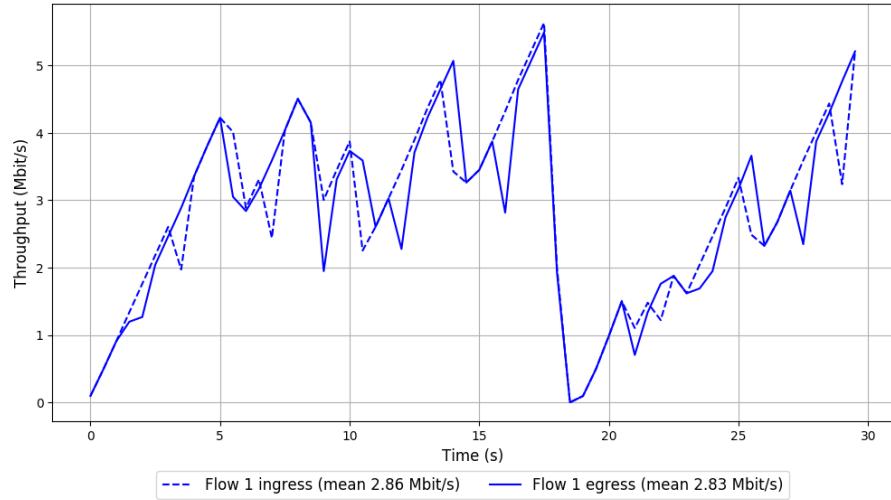
```
Run 9: Statistics of LEDBAT
```

```
Start at: 2018-01-08 22:32:35
```

```
End at: 2018-01-08 22:33:05
```

```
# Below is generated by plot.py at 2018-01-08 23:46:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.83 Mbit/s
95th percentile per-packet one-way delay: 85.222 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 2.83 Mbit/s
95th percentile per-packet one-way delay: 85.222 ms
Loss rate: 1.17%
```

Run 9: Report of LEDBAT — Data Link



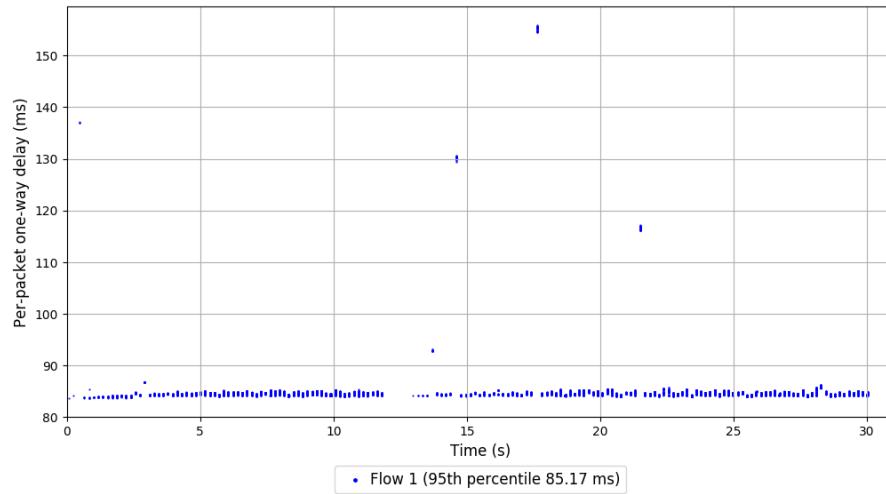
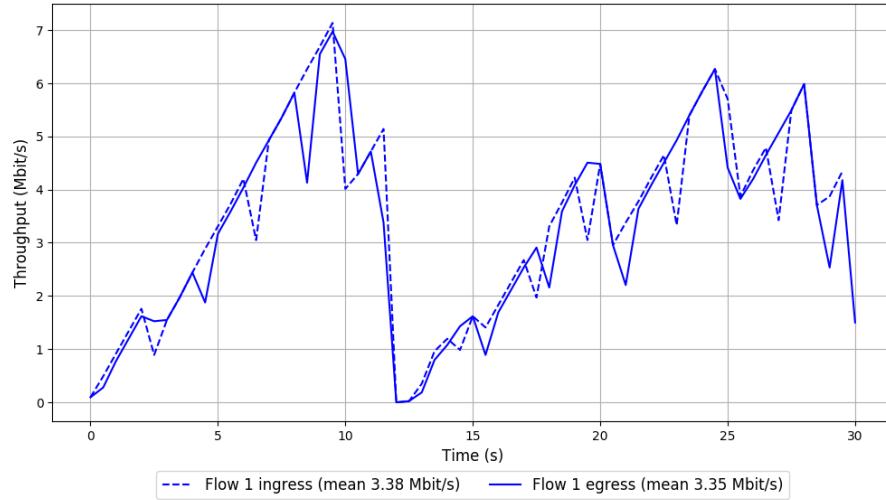
Run 10: Statistics of LEDBAT

Start at: 2018-01-08 22:44:32

End at: 2018-01-08 22:45:02

```
# Below is generated by plot.py at 2018-01-08 23:46:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.35 Mbit/s
95th percentile per-packet one-way delay: 85.165 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 3.35 Mbit/s
95th percentile per-packet one-way delay: 85.165 ms
Loss rate: 0.87%
```

Run 10: Report of LEDBAT — Data Link



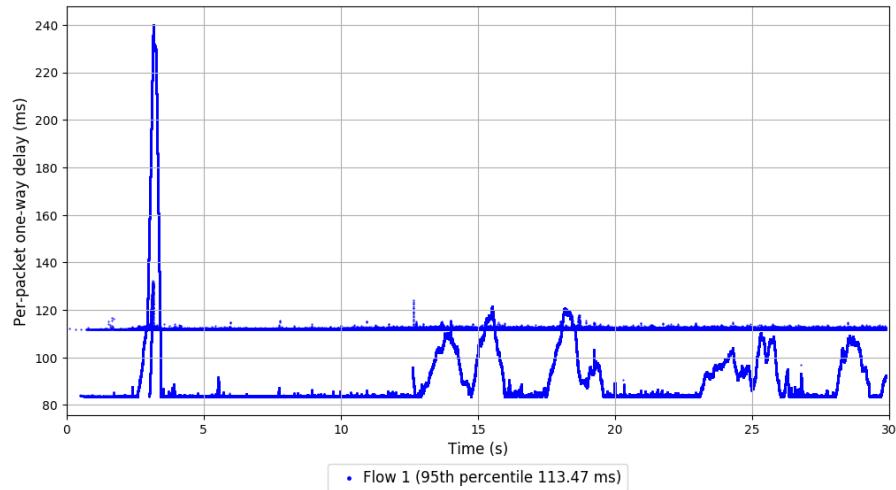
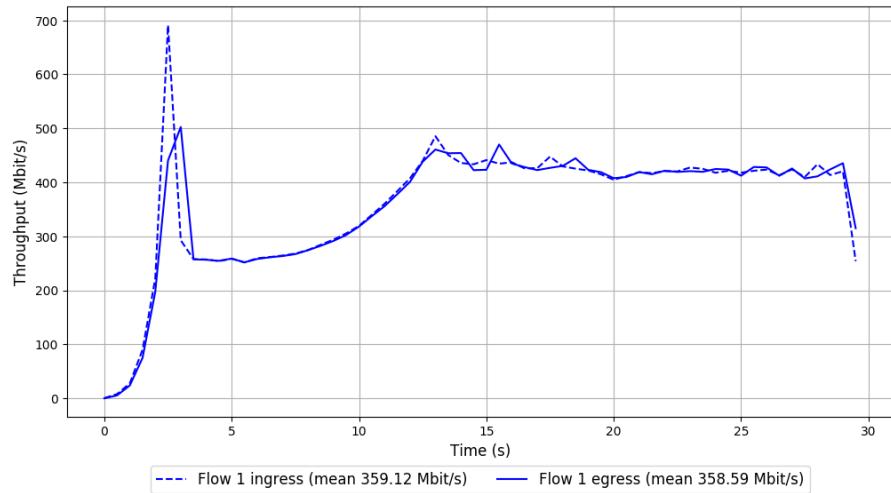
```
Run 1: Statistics of PCC
```

```
Start at: 2018-01-08 20:53:52
```

```
End at: 2018-01-08 20:54:22
```

```
# Below is generated by plot.py at 2018-01-08 23:51:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 358.59 Mbit/s
95th percentile per-packet one-way delay: 113.472 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 358.59 Mbit/s
95th percentile per-packet one-way delay: 113.472 ms
Loss rate: 0.24%
```

Run 1: Report of PCC — Data Link



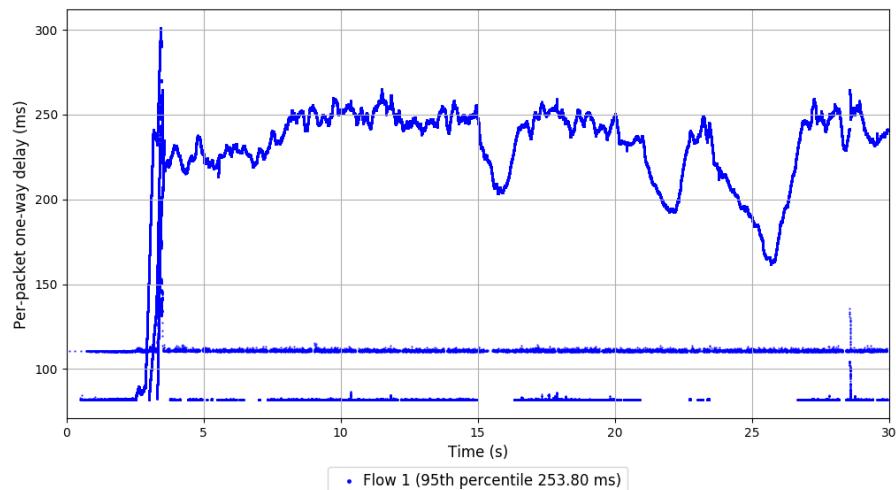
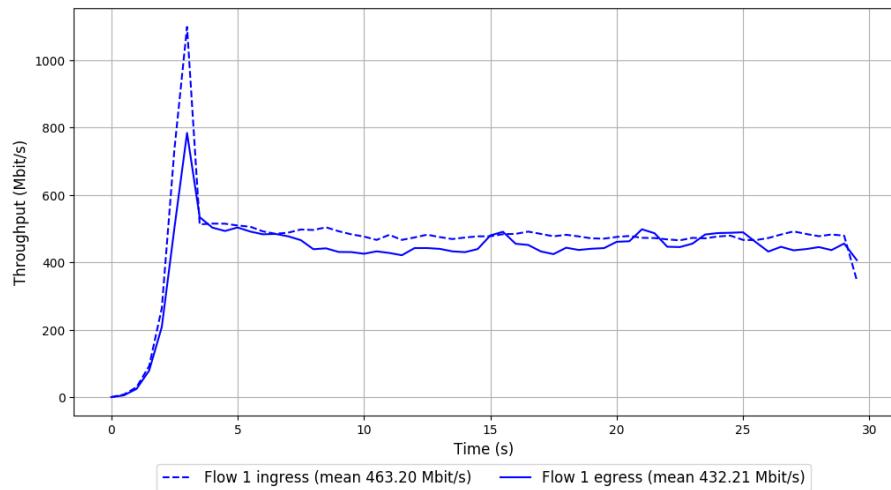
Run 2: Statistics of PCC

Start at: 2018-01-08 21:05:57

End at: 2018-01-08 21:06:27

```
# Below is generated by plot.py at 2018-01-08 23:52:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 432.21 Mbit/s
95th percentile per-packet one-way delay: 253.801 ms
Loss rate: 6.78%
-- Flow 1:
Average throughput: 432.21 Mbit/s
95th percentile per-packet one-way delay: 253.801 ms
Loss rate: 6.78%
```

Run 2: Report of PCC — Data Link



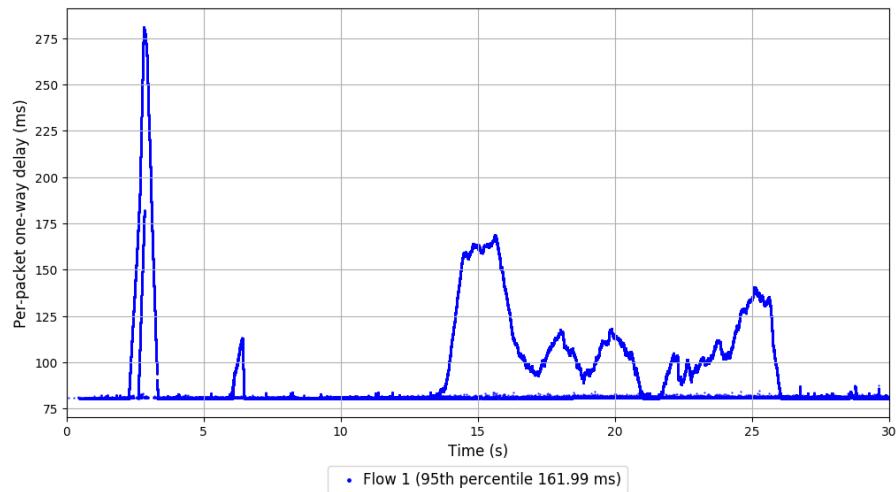
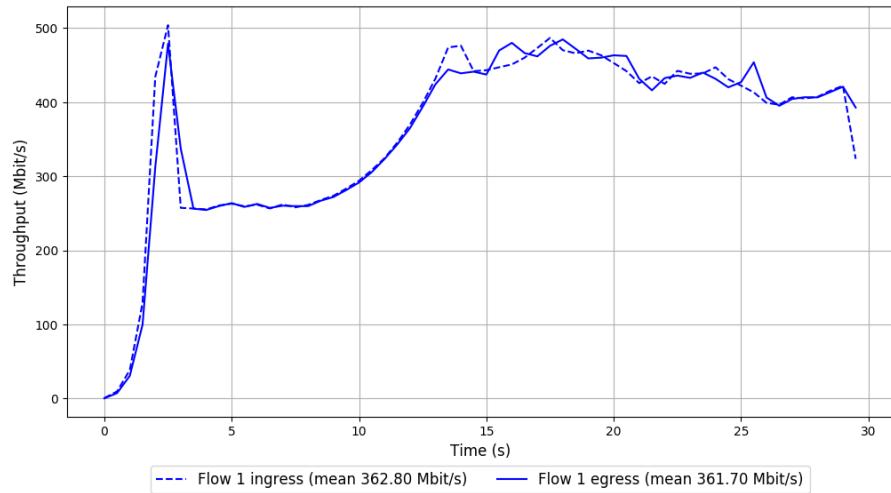
Run 3: Statistics of PCC

Start at: 2018-01-08 21:18:05

End at: 2018-01-08 21:18:35

```
# Below is generated by plot.py at 2018-01-08 23:52:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 361.70 Mbit/s
95th percentile per-packet one-way delay: 161.991 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 361.70 Mbit/s
95th percentile per-packet one-way delay: 161.991 ms
Loss rate: 0.30%
```

Run 3: Report of PCC — Data Link



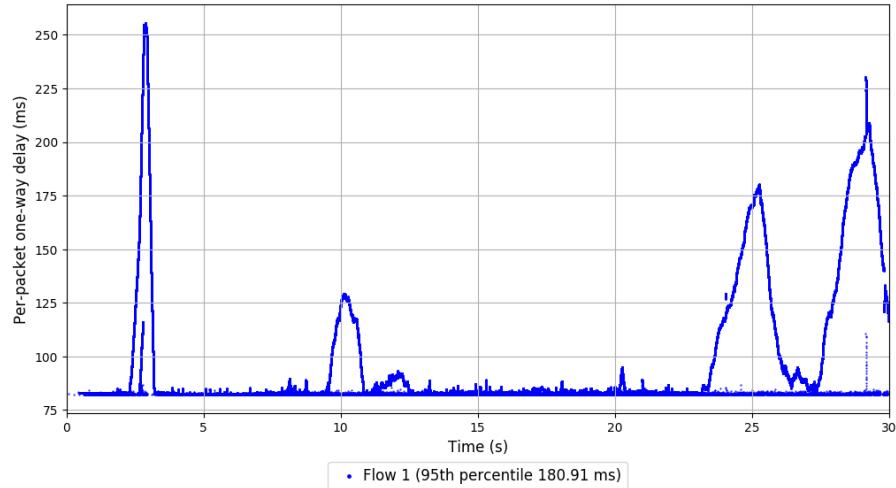
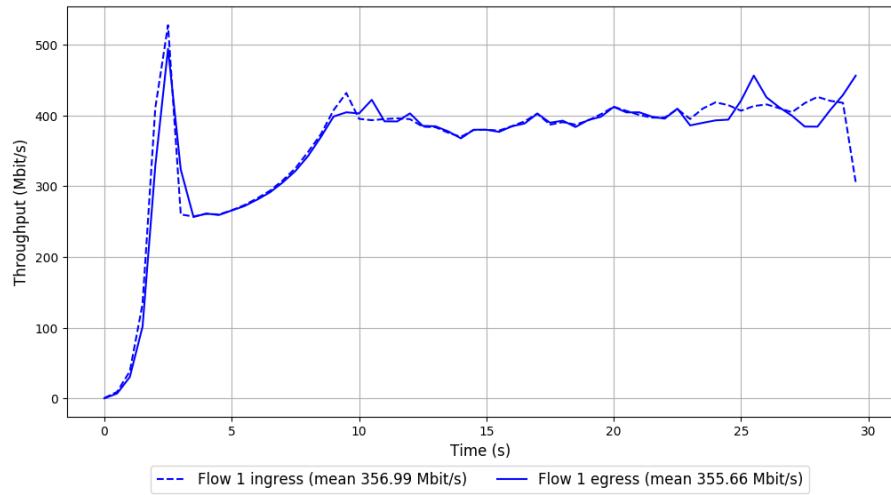
Run 4: Statistics of PCC

Start at: 2018-01-08 21:30:11

End at: 2018-01-08 21:30:41

```
# Below is generated by plot.py at 2018-01-08 23:52:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 355.66 Mbit/s
95th percentile per-packet one-way delay: 180.911 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 355.66 Mbit/s
95th percentile per-packet one-way delay: 180.911 ms
Loss rate: 0.27%
```

Run 4: Report of PCC — Data Link



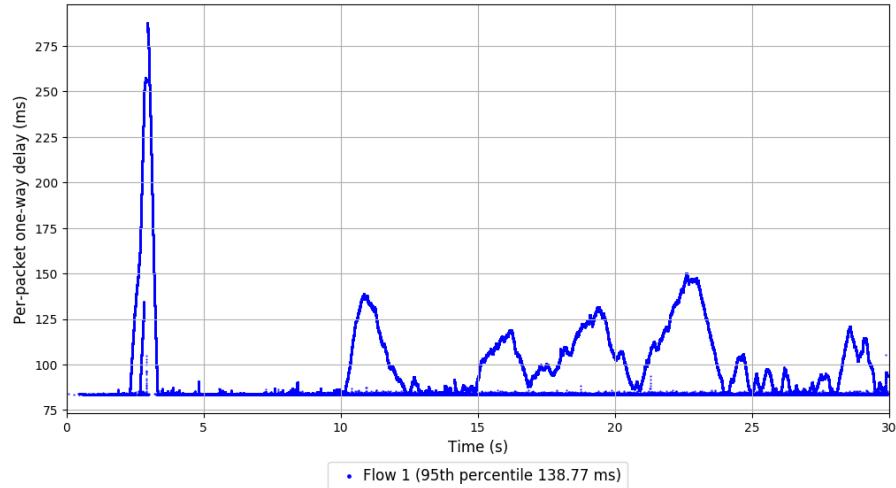
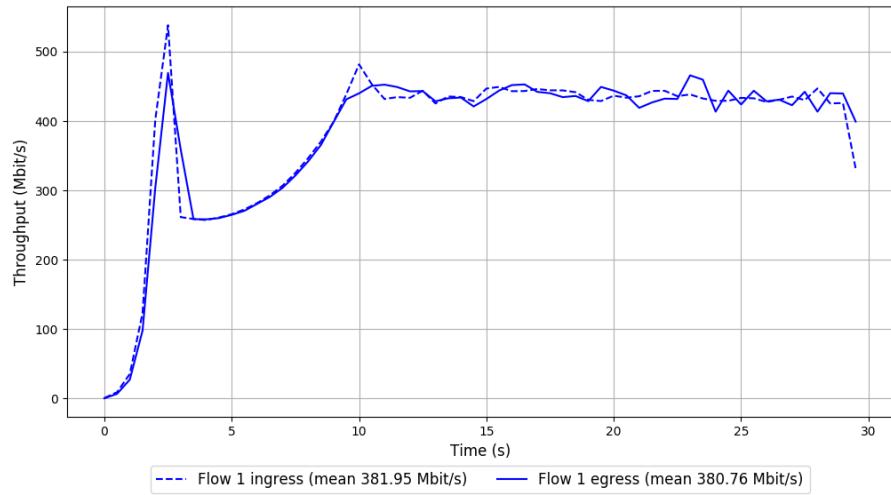
Run 5: Statistics of PCC

Start at: 2018-01-08 21:41:47

End at: 2018-01-08 21:42:17

```
# Below is generated by plot.py at 2018-01-08 23:52:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 380.76 Mbit/s
95th percentile per-packet one-way delay: 138.774 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 380.76 Mbit/s
95th percentile per-packet one-way delay: 138.774 ms
Loss rate: 0.31%
```

Run 5: Report of PCC — Data Link



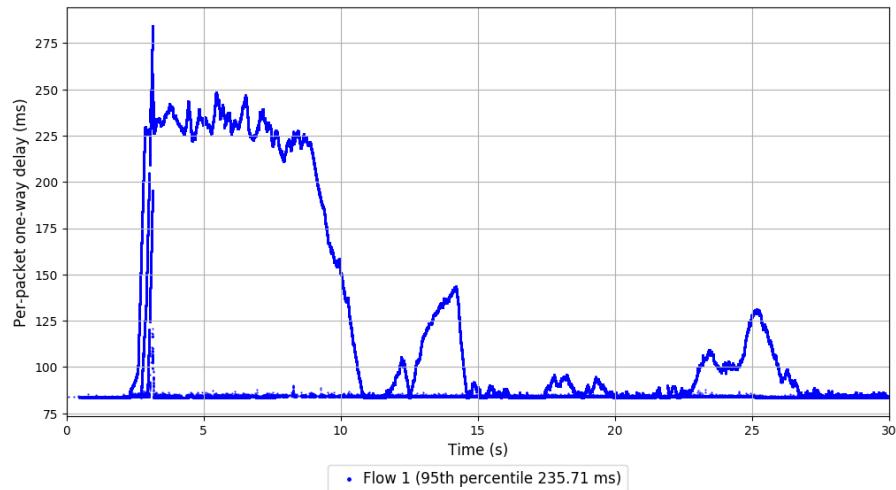
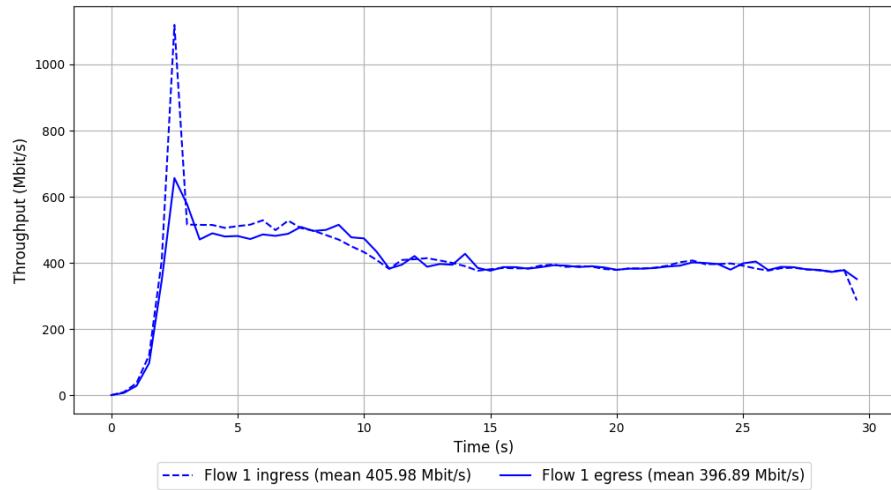
Run 6: Statistics of PCC

Start at: 2018-01-08 21:54:00

End at: 2018-01-08 21:54:30

```
# Below is generated by plot.py at 2018-01-08 23:52:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 396.89 Mbit/s
95th percentile per-packet one-way delay: 235.709 ms
Loss rate: 2.24%
-- Flow 1:
Average throughput: 396.89 Mbit/s
95th percentile per-packet one-way delay: 235.709 ms
Loss rate: 2.24%
```

Run 6: Report of PCC — Data Link



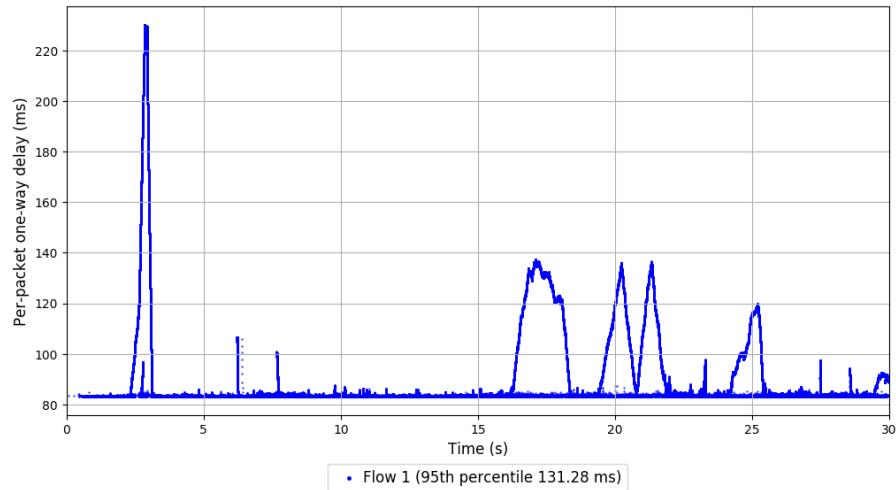
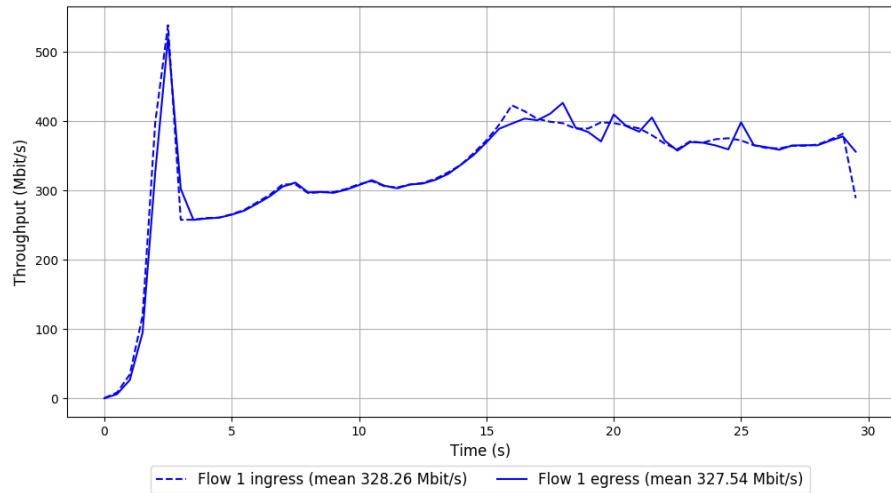
Run 7: Statistics of PCC

Start at: 2018-01-08 22:05:40

End at: 2018-01-08 22:06:10

```
# Below is generated by plot.py at 2018-01-08 23:52:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 327.54 Mbit/s
95th percentile per-packet one-way delay: 131.280 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 327.54 Mbit/s
95th percentile per-packet one-way delay: 131.280 ms
Loss rate: 0.20%
```

Run 7: Report of PCC — Data Link



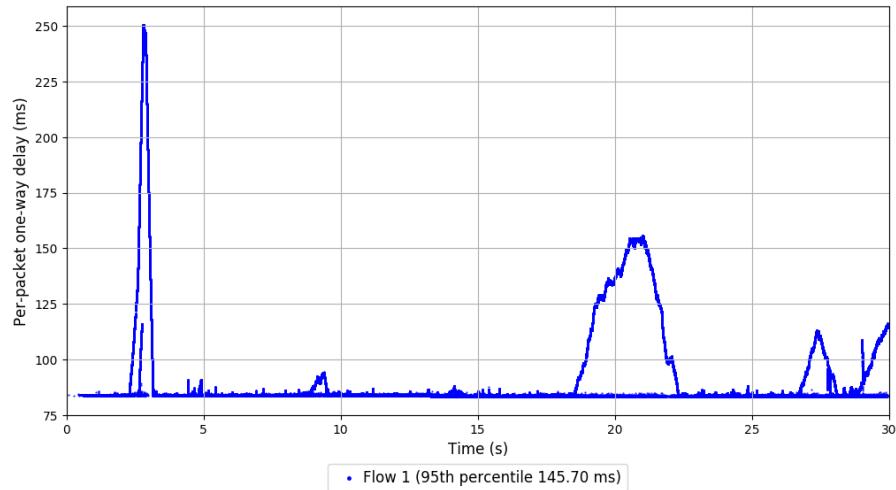
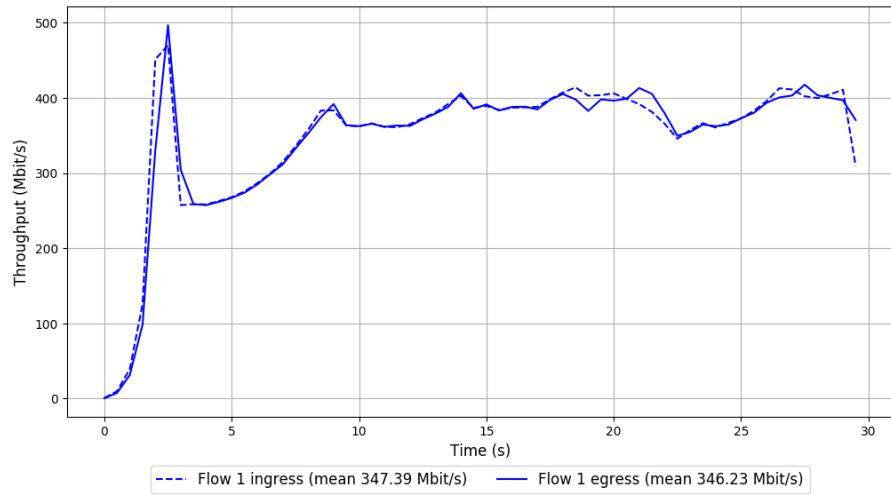
Run 8: Statistics of PCC

Start at: 2018-01-08 22:17:51

End at: 2018-01-08 22:18:21

```
# Below is generated by plot.py at 2018-01-08 23:52:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 346.23 Mbit/s
95th percentile per-packet one-way delay: 145.703 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 346.23 Mbit/s
95th percentile per-packet one-way delay: 145.703 ms
Loss rate: 0.33%
```

Run 8: Report of PCC — Data Link



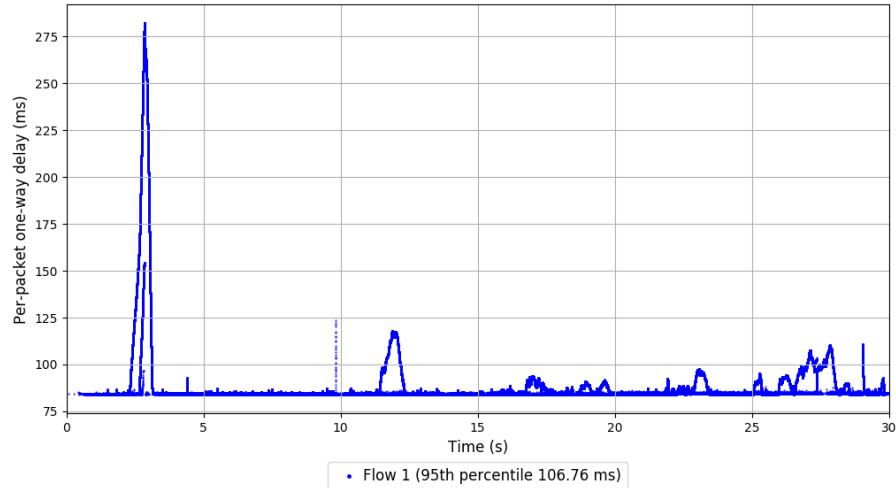
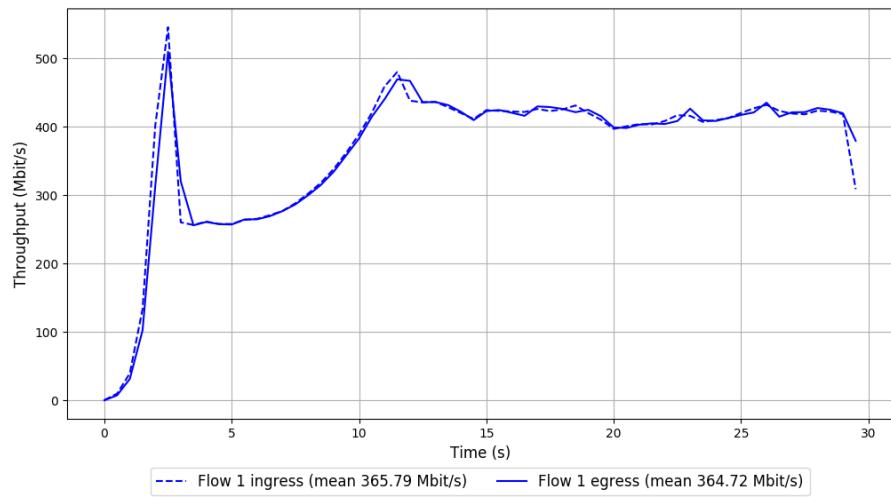
Run 9: Statistics of PCC

Start at: 2018-01-08 22:30:05

End at: 2018-01-08 22:30:35

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 364.72 Mbit/s
95th percentile per-packet one-way delay: 106.762 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 364.72 Mbit/s
95th percentile per-packet one-way delay: 106.762 ms
Loss rate: 0.29%
```

Run 9: Report of PCC — Data Link



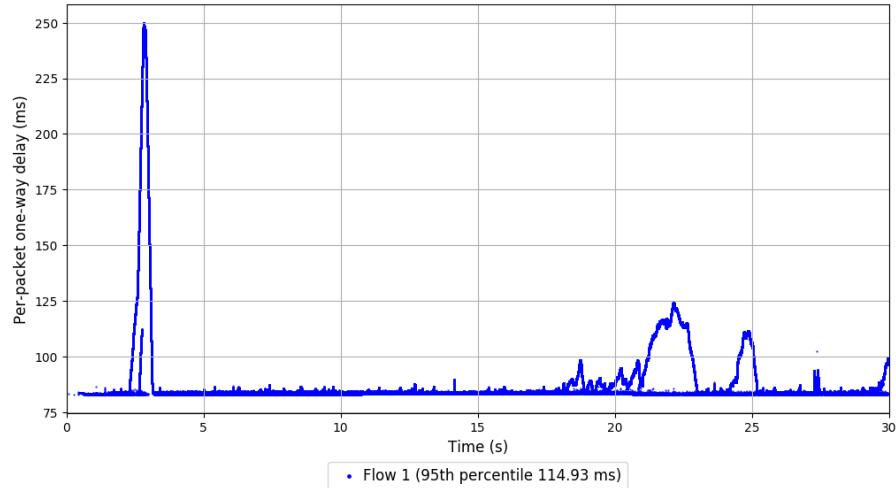
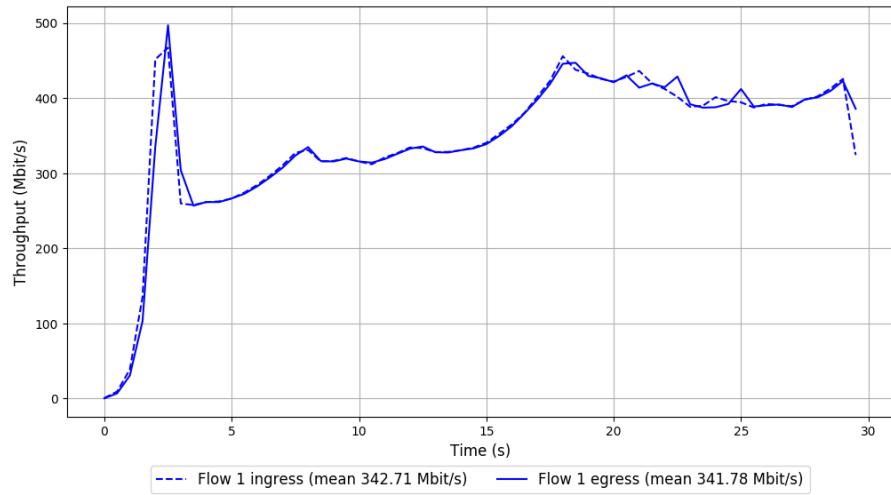
Run 10: Statistics of PCC

Start at: 2018-01-08 22:42:03

End at: 2018-01-08 22:42:33

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 341.78 Mbit/s
95th percentile per-packet one-way delay: 114.934 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 341.78 Mbit/s
95th percentile per-packet one-way delay: 114.934 ms
Loss rate: 0.27%
```

Run 10: Report of PCC — Data Link

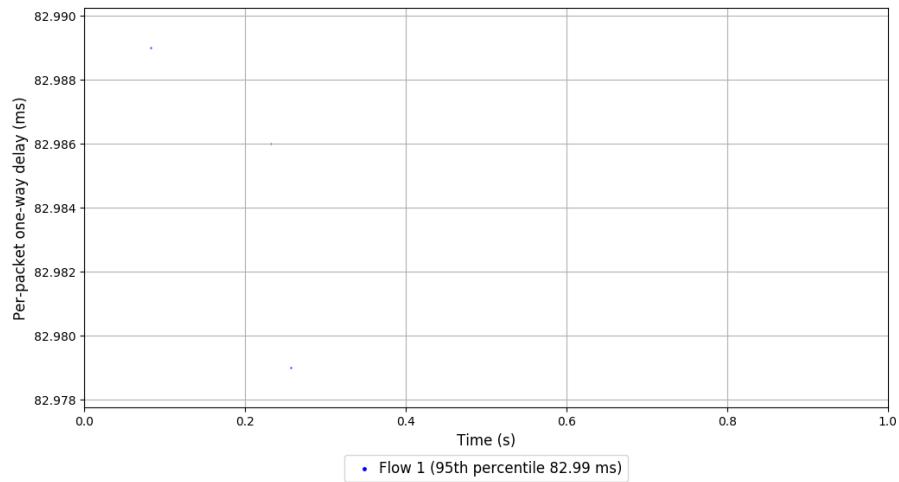
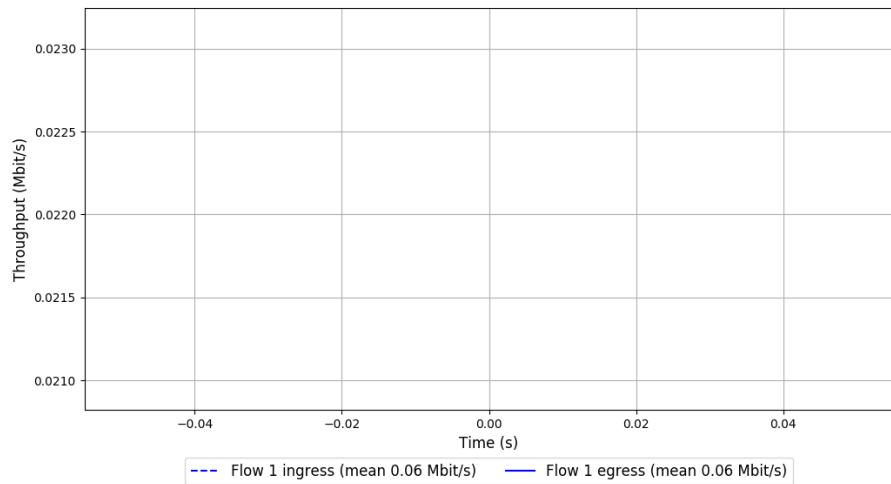


Run 1: Statistics of QUIC Cubic

Start at: 2018-01-08 20:59:25

End at: 2018-01-08 20:59:55

Run 1: Report of QUIC Cubic — Data Link



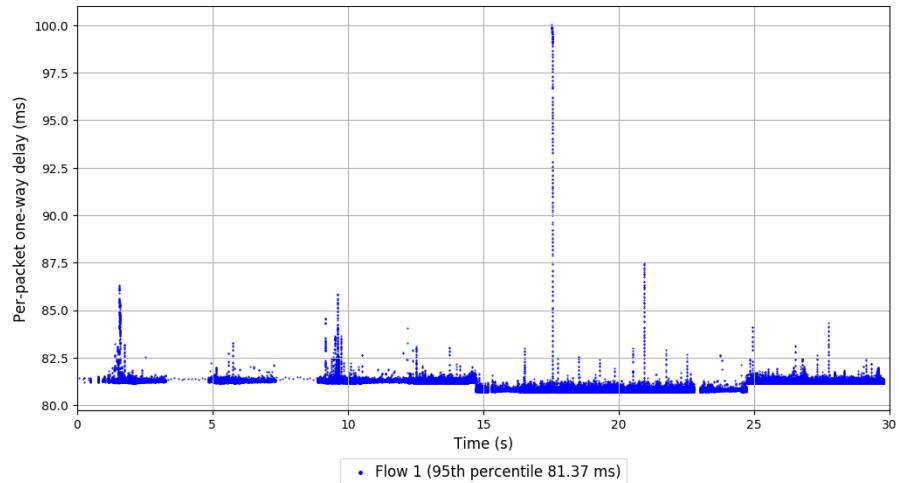
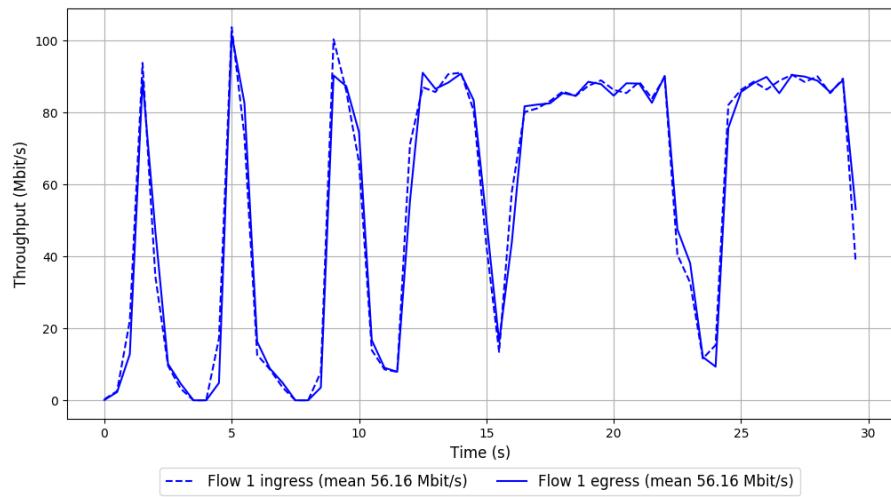
Run 2: Statistics of QUIC Cubic

Start at: 2018-01-08 21:11:29

End at: 2018-01-08 21:11:59

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.16 Mbit/s
95th percentile per-packet one-way delay: 81.367 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.16 Mbit/s
95th percentile per-packet one-way delay: 81.367 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link



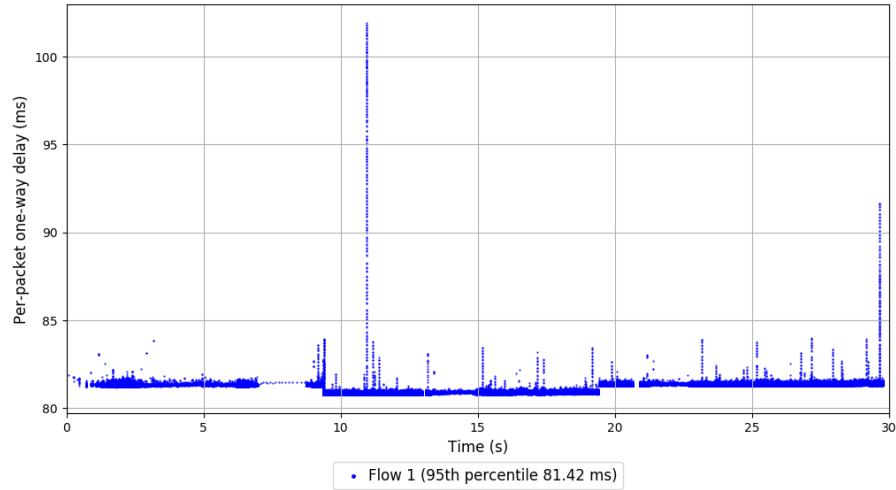
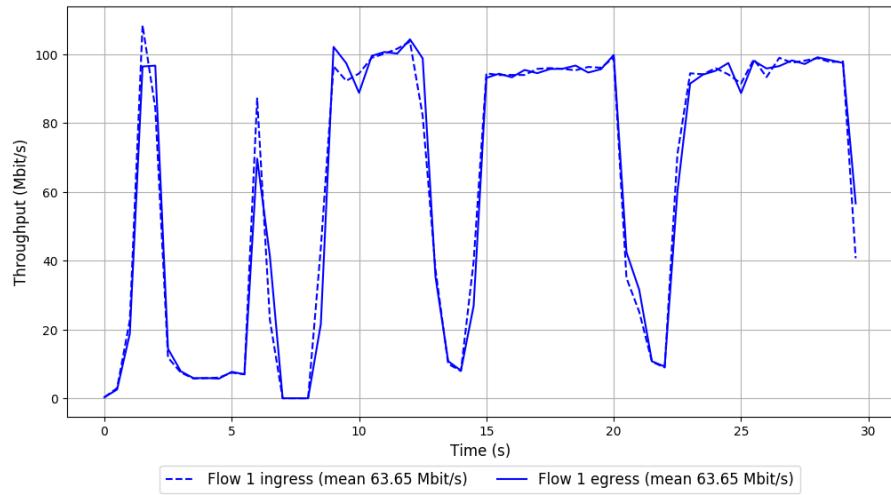
Run 3: Statistics of QUIC Cubic

Start at: 2018-01-08 21:23:35

End at: 2018-01-08 21:24:05

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.65 Mbit/s
95th percentile per-packet one-way delay: 81.423 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.65 Mbit/s
95th percentile per-packet one-way delay: 81.423 ms
Loss rate: 0.00%
```

Run 3: Report of QUIC Cubic — Data Link



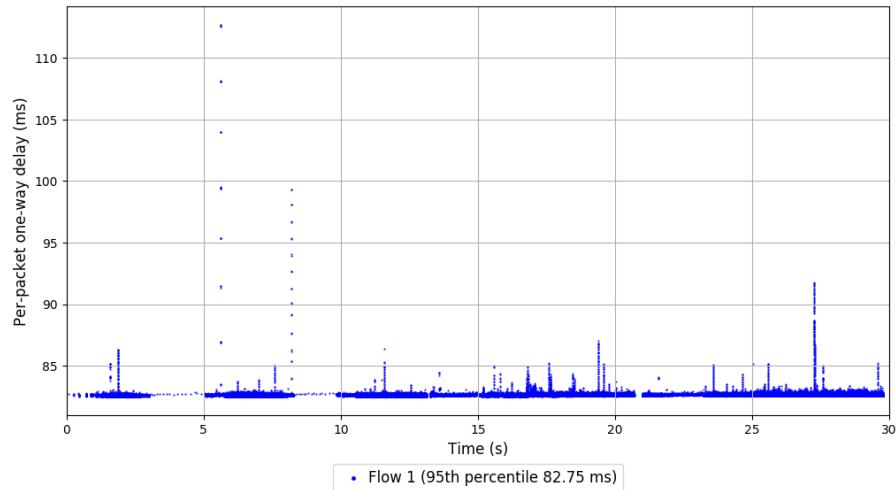
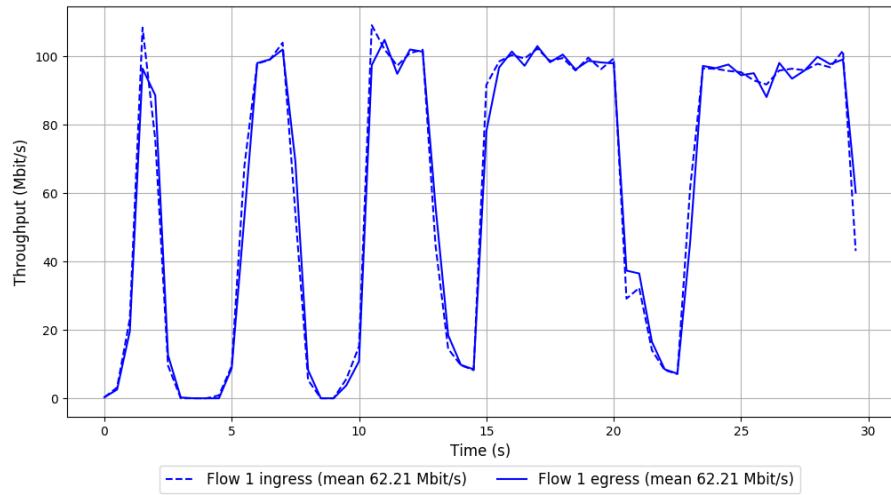
Run 4: Statistics of QUIC Cubic

Start at: 2018-01-08 21:35:41

End at: 2018-01-08 21:36:11

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.21 Mbit/s
95th percentile per-packet one-way delay: 82.745 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.21 Mbit/s
95th percentile per-packet one-way delay: 82.745 ms
Loss rate: 0.00%
```

Run 4: Report of QUIC Cubic — Data Link



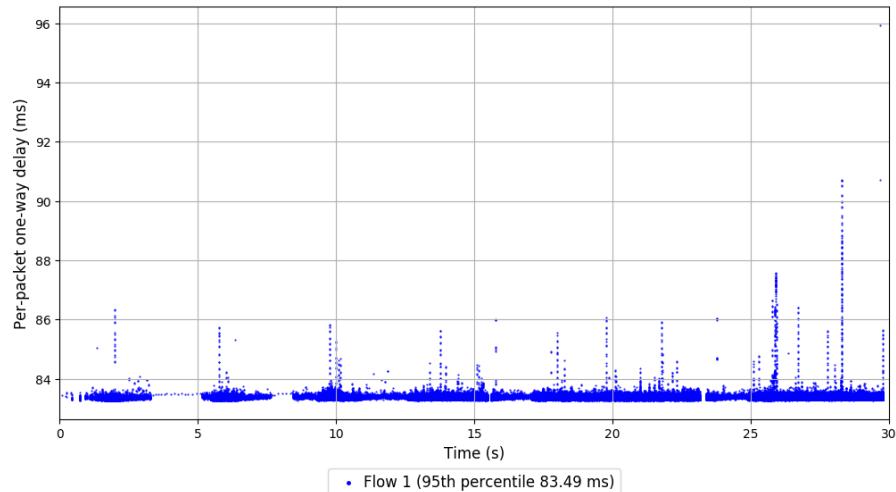
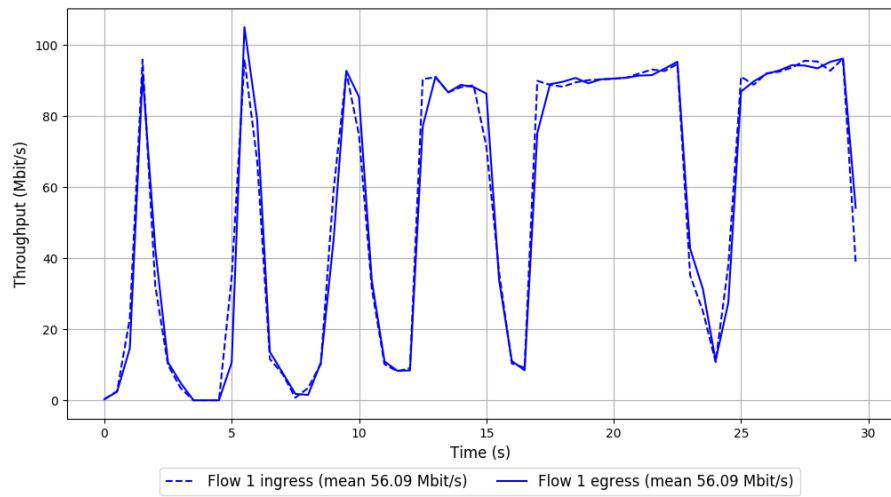
Run 5: Statistics of QUIC Cubic

Start at: 2018-01-08 21:47:17

End at: 2018-01-08 21:47:47

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.09 Mbit/s
95th percentile per-packet one-way delay: 83.487 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.09 Mbit/s
95th percentile per-packet one-way delay: 83.487 ms
Loss rate: 0.00%
```

Run 5: Report of QUIC Cubic — Data Link



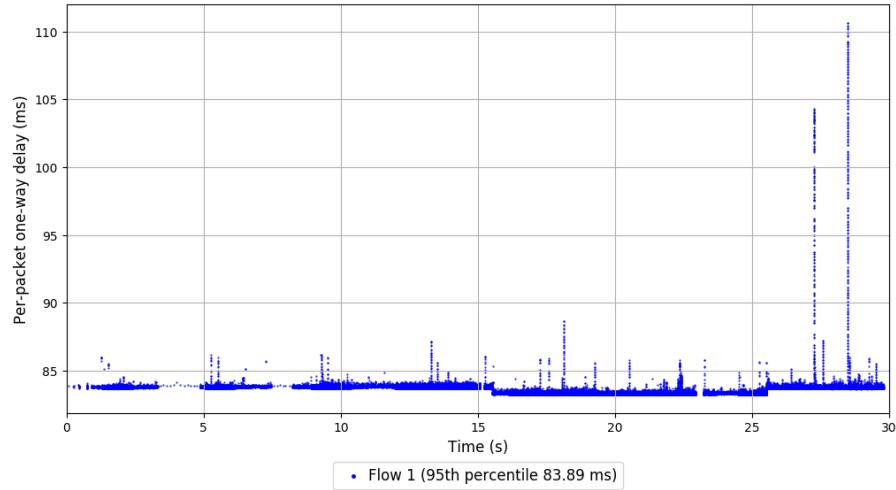
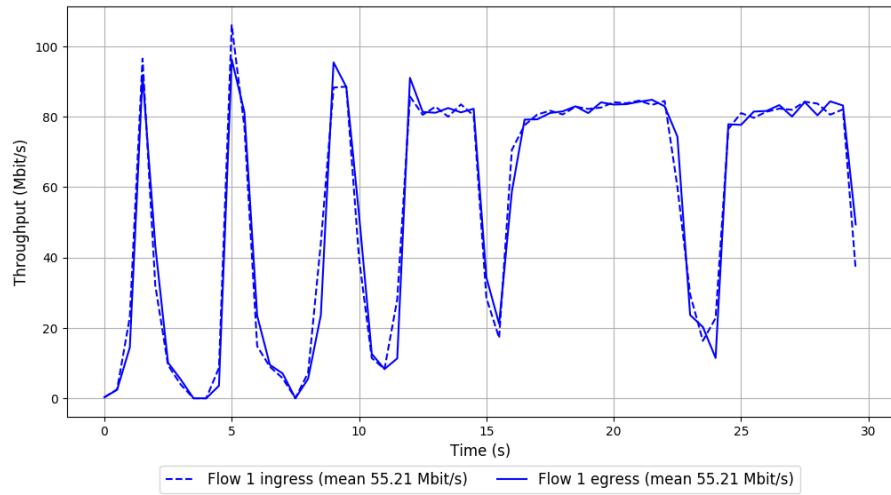
Run 6: Statistics of QUIC Cubic

Start at: 2018-01-08 21:59:19

End at: 2018-01-08 21:59:49

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.21 Mbit/s
95th percentile per-packet one-way delay: 83.891 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.21 Mbit/s
95th percentile per-packet one-way delay: 83.891 ms
Loss rate: 0.00%
```

Run 6: Report of QUIC Cubic — Data Link

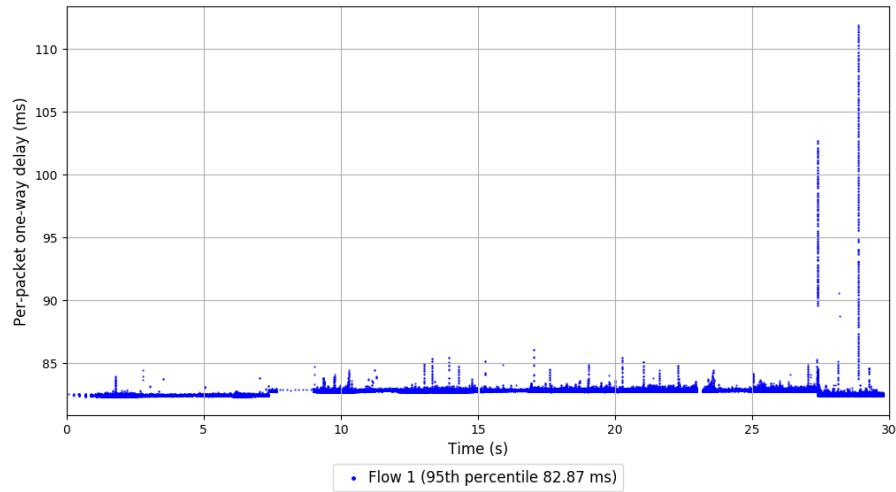
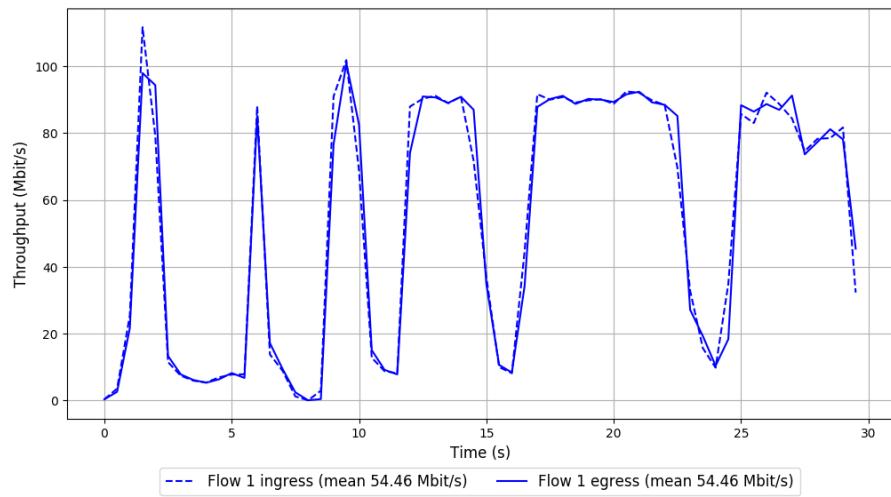


```
Run 7: Statistics of QUIC Cubic

Start at: 2018-01-08 22:11:07
End at: 2018-01-08 22:11:37

# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.46 Mbit/s
95th percentile per-packet one-way delay: 82.874 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 54.46 Mbit/s
95th percentile per-packet one-way delay: 82.874 ms
Loss rate: 0.00%
```

Run 7: Report of QUIC Cubic — Data Link



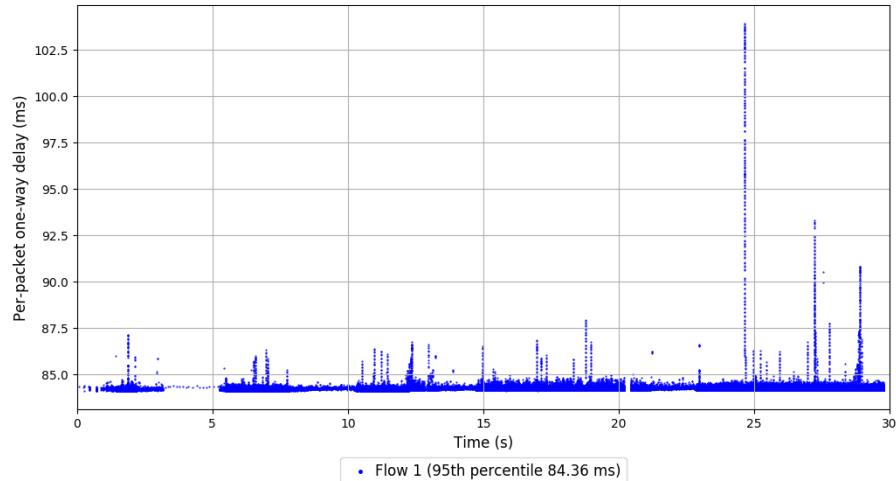
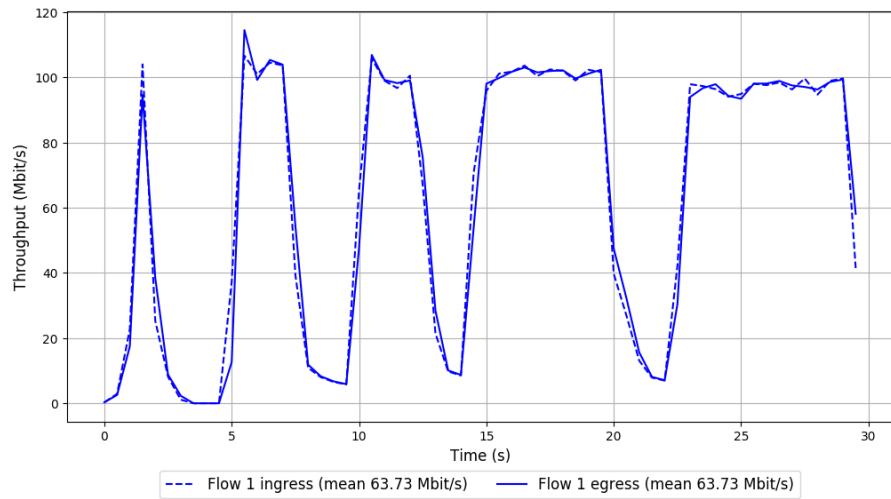
Run 8: Statistics of QUIC Cubic

Start at: 2018-01-08 22:23:21

End at: 2018-01-08 22:23:52

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.73 Mbit/s
95th percentile per-packet one-way delay: 84.355 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.73 Mbit/s
95th percentile per-packet one-way delay: 84.355 ms
Loss rate: 0.00%
```

Run 8: Report of QUIC Cubic — Data Link



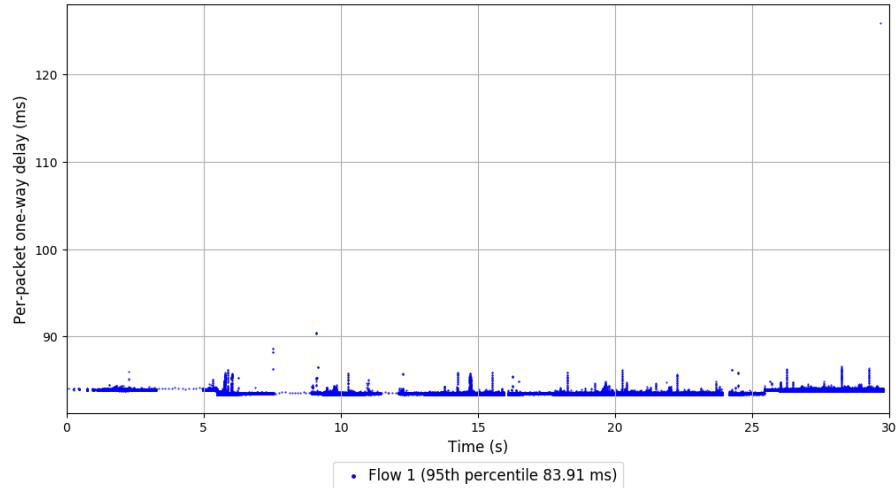
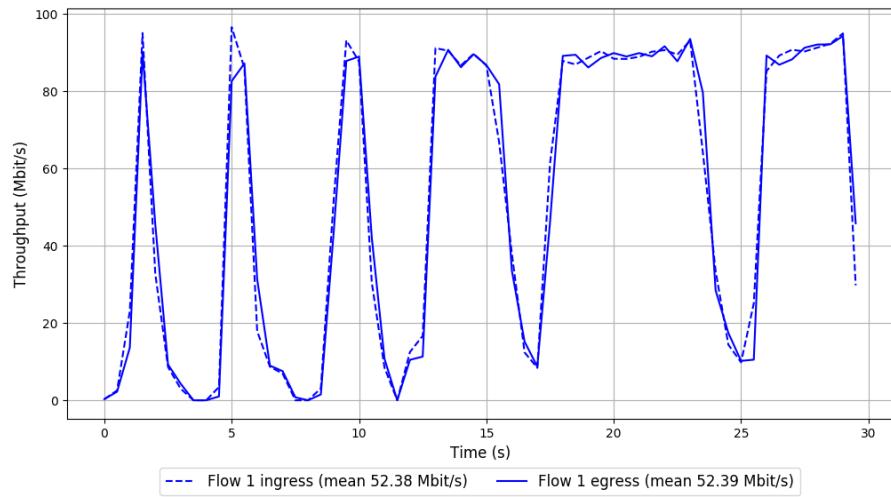
Run 9: Statistics of QUIC Cubic

Start at: 2018-01-08 22:35:38

End at: 2018-01-08 22:36:08

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.39 Mbit/s
95th percentile per-packet one-way delay: 83.913 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 52.39 Mbit/s
95th percentile per-packet one-way delay: 83.913 ms
Loss rate: 0.00%
```

Run 9: Report of QUIC Cubic — Data Link



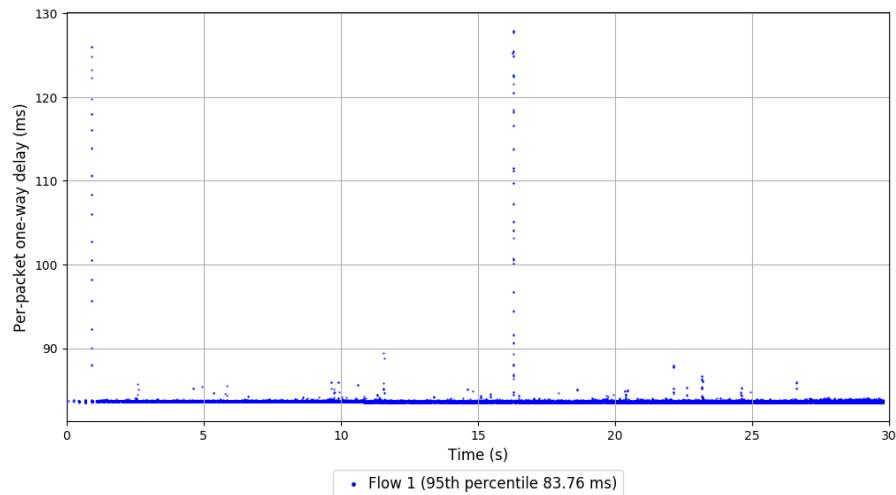
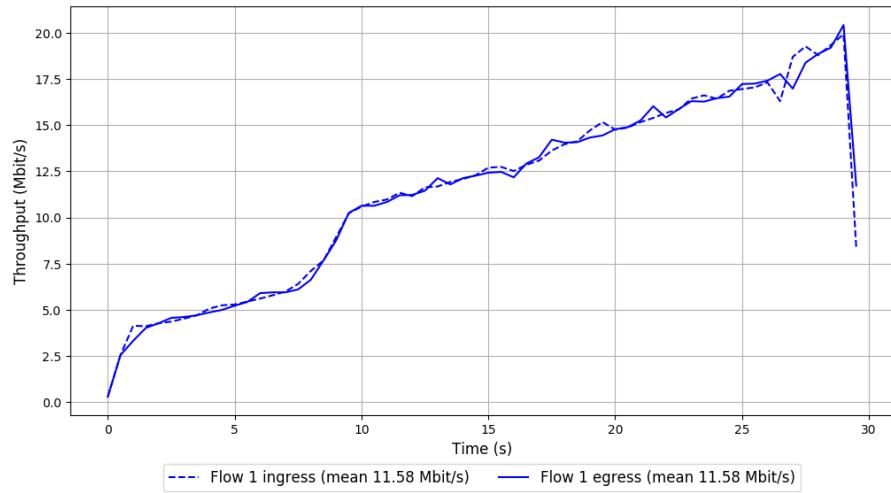
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-08 22:47:34

End at: 2018-01-08 22:48:04

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.58 Mbit/s
95th percentile per-packet one-way delay: 83.756 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.58 Mbit/s
95th percentile per-packet one-way delay: 83.756 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

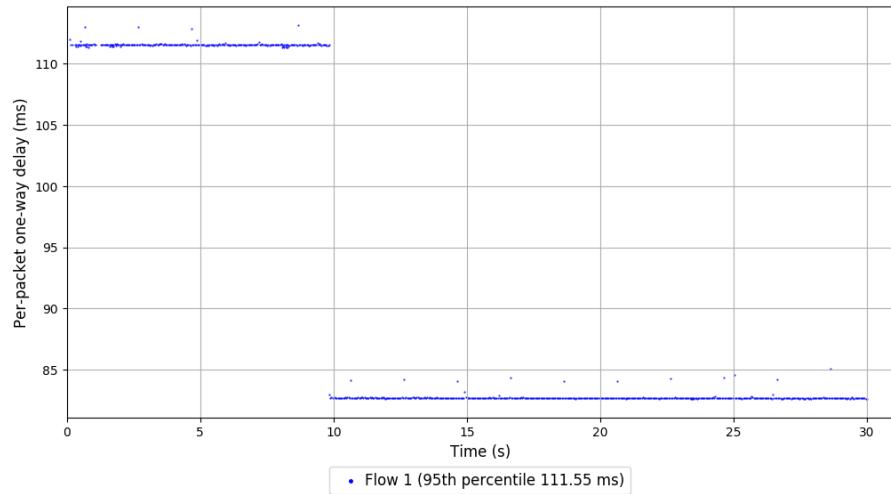
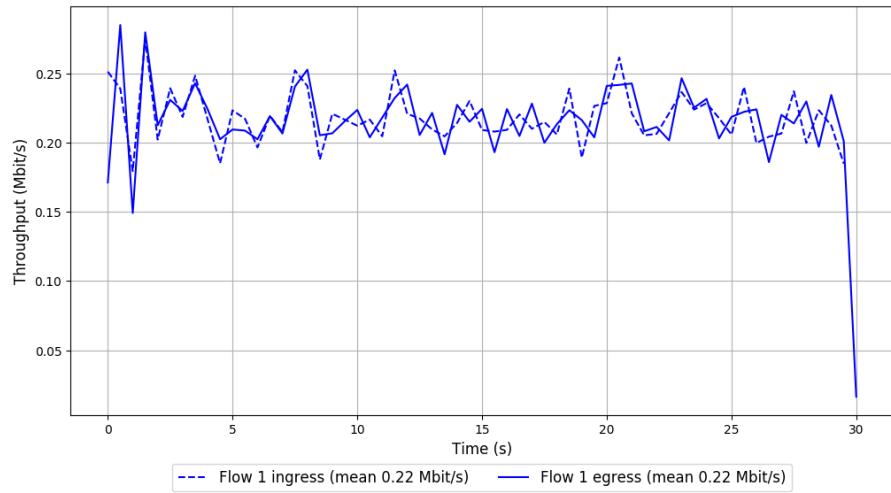


```
Run 1: Statistics of SCReAM

Start at: 2018-01-08 20:58:45
End at: 2018-01-08 20:59:15

# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.548 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.548 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

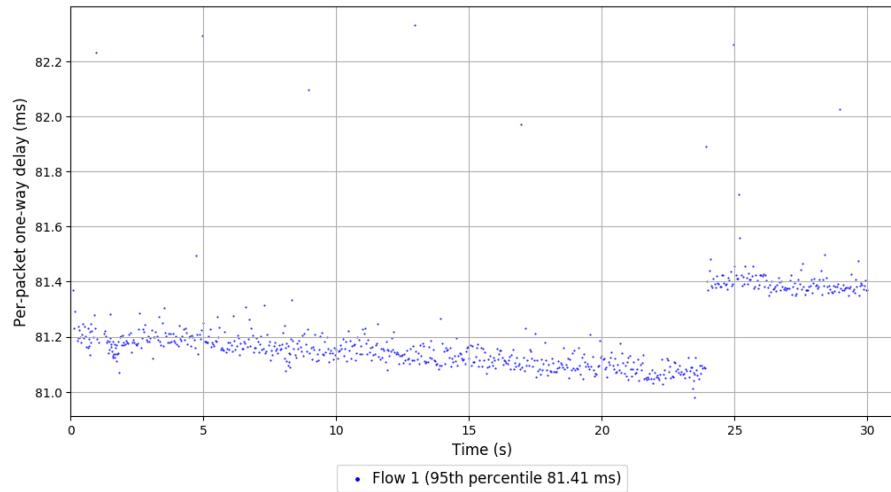
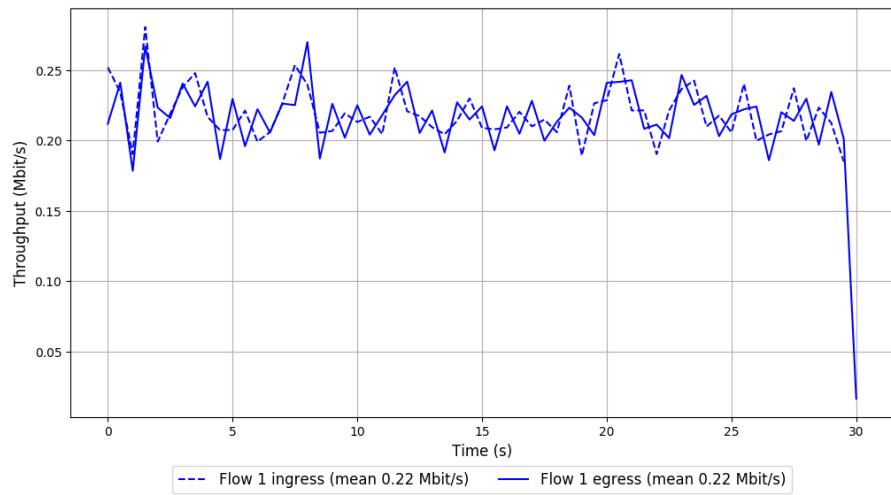


```
Run 2: Statistics of SCReAM

Start at: 2018-01-08 21:10:50
End at: 2018-01-08 21:11:20

# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.414 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.414 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link



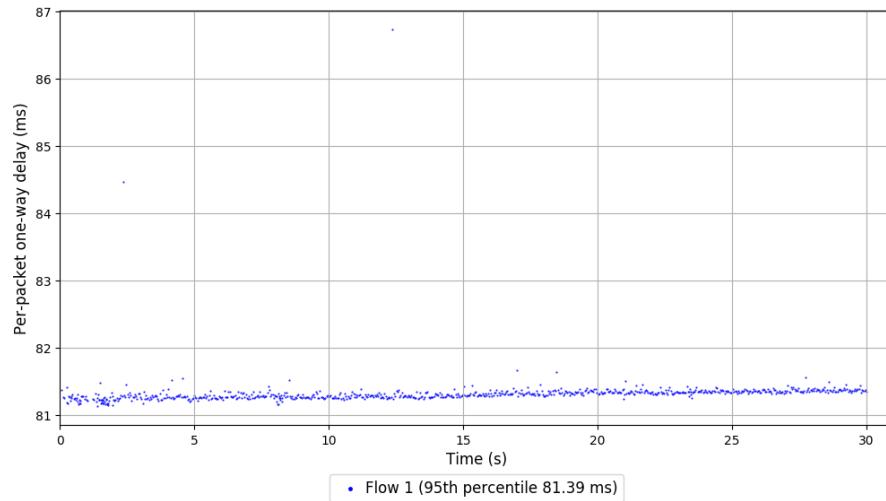
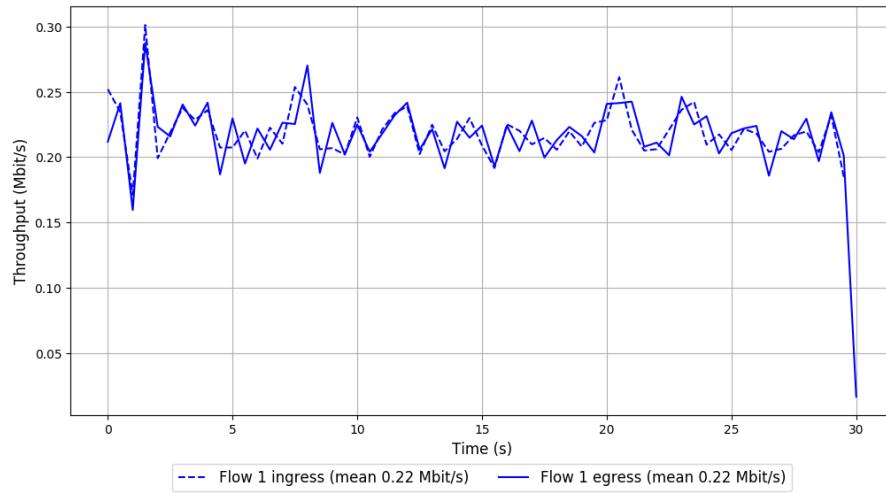
Run 3: Statistics of SCReAM

Start at: 2018-01-08 21:22:56

End at: 2018-01-08 21:23:26

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.395 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.395 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link



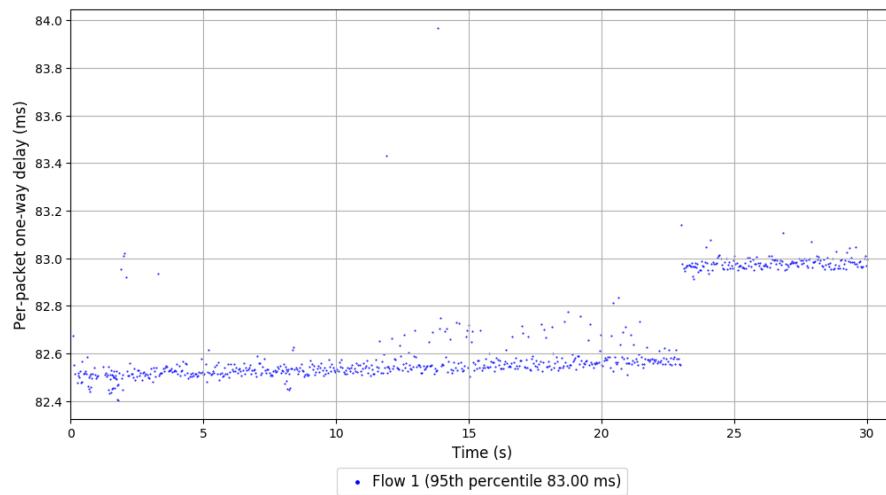
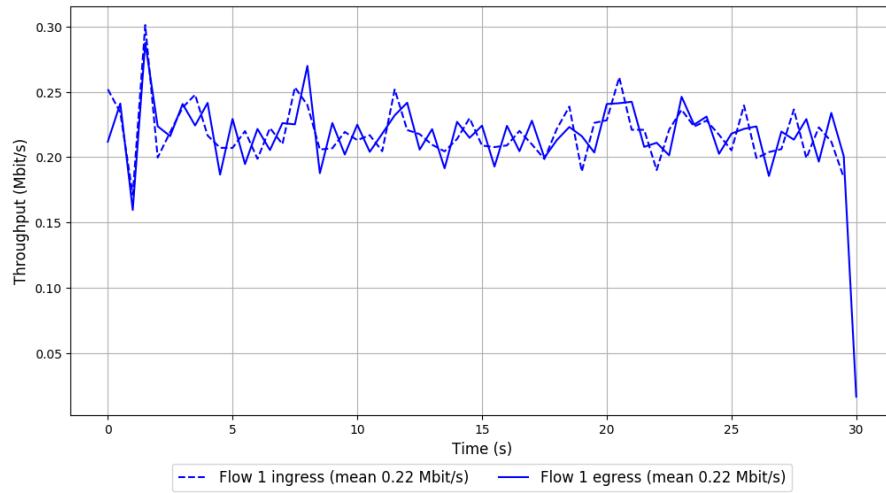
Run 4: Statistics of SCReAM

Start at: 2018-01-08 21:35:02

End at: 2018-01-08 21:35:32

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.995 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.995 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link



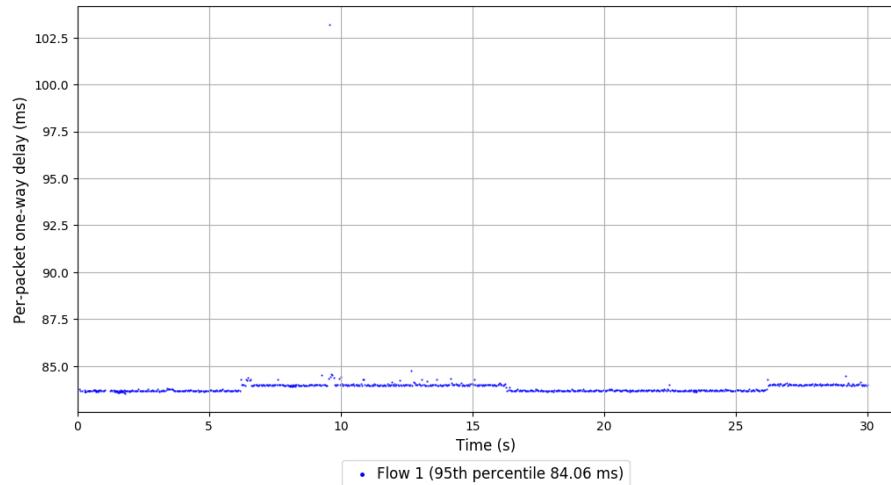
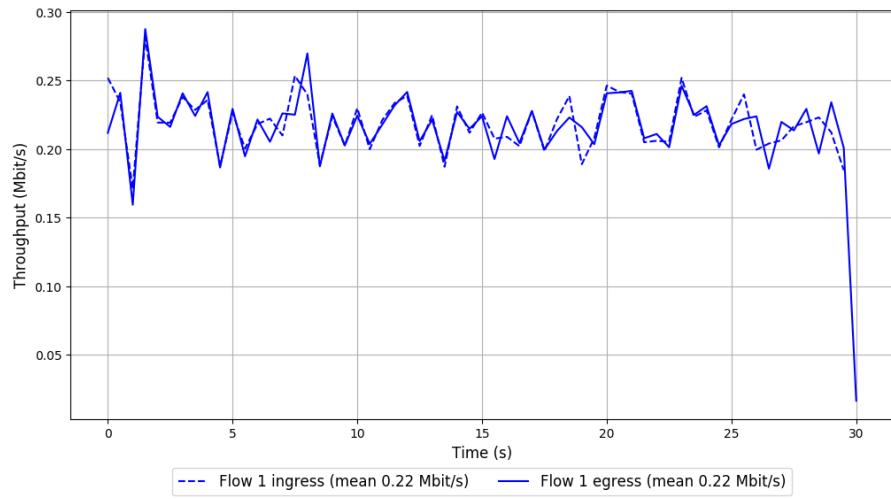
Run 5: Statistics of SCReAM

Start at: 2018-01-08 21:46:38

End at: 2018-01-08 21:47:08

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.058 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.058 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link



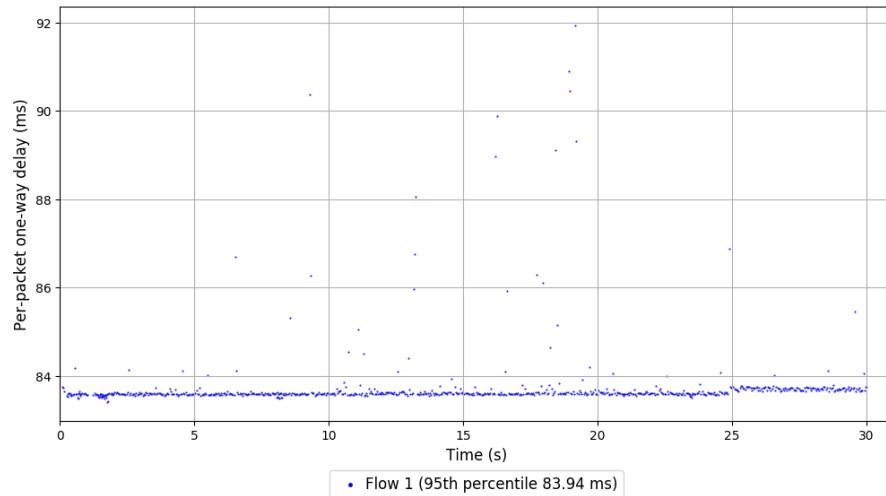
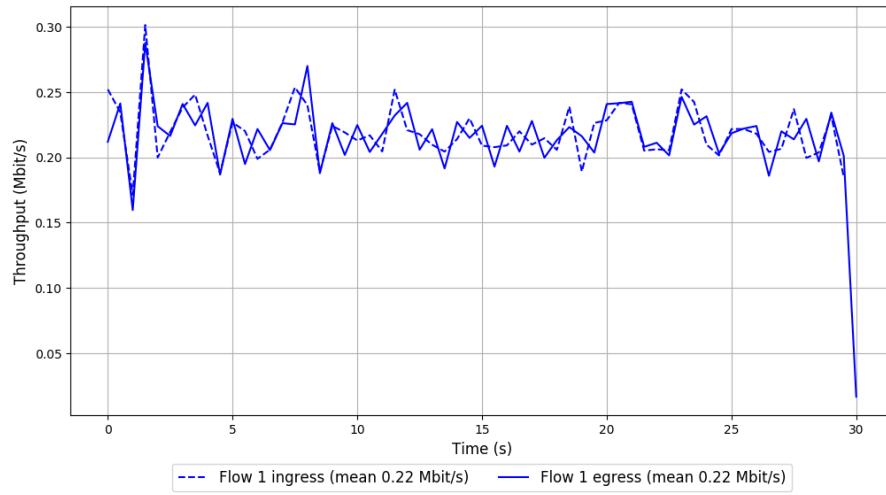
Run 6: Statistics of SCReAM

Start at: 2018-01-08 21:58:40

End at: 2018-01-08 21:59:10

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.937 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.937 ms
Loss rate: 0.00%
```

Run 6: Report of SCReAM — Data Link



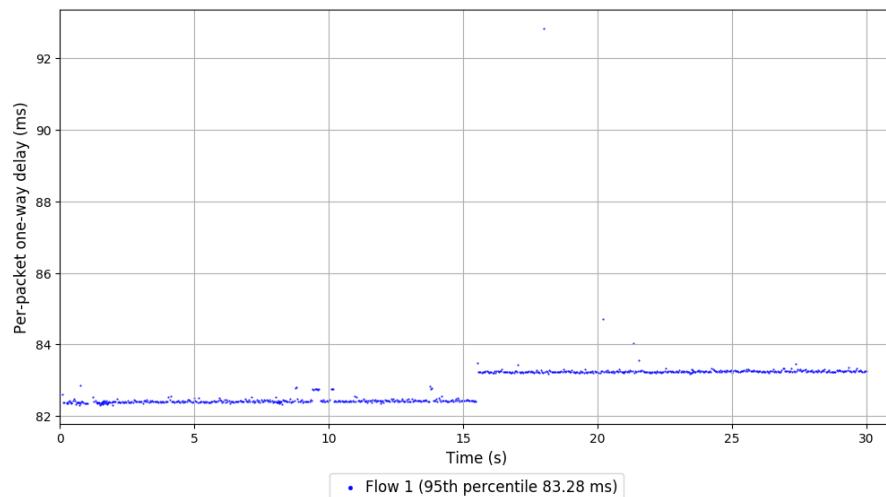
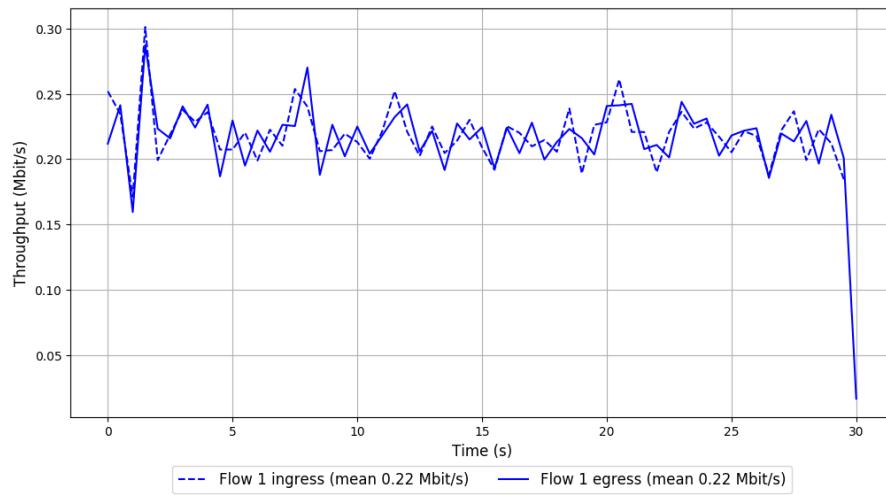
Run 7: Statistics of SCReAM

Start at: 2018-01-08 22:10:28

End at: 2018-01-08 22:10:58

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.284 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.284 ms
Loss rate: 0.00%
```

Run 7: Report of SCReAM — Data Link



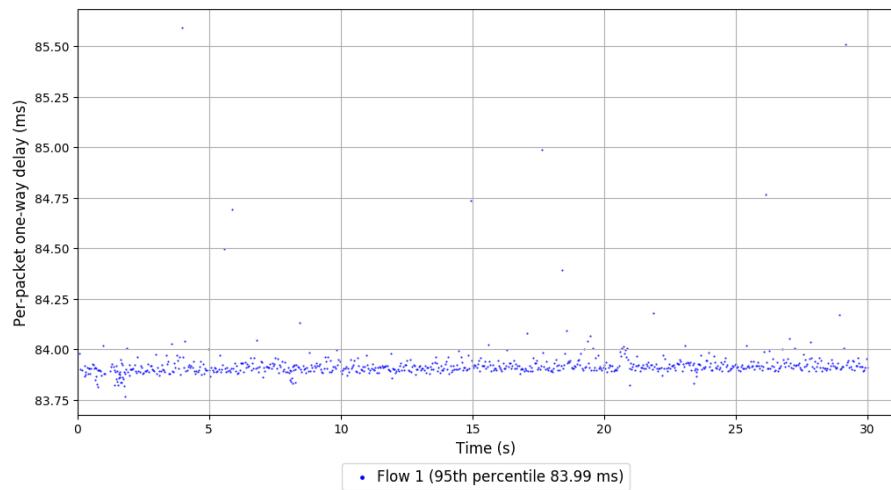
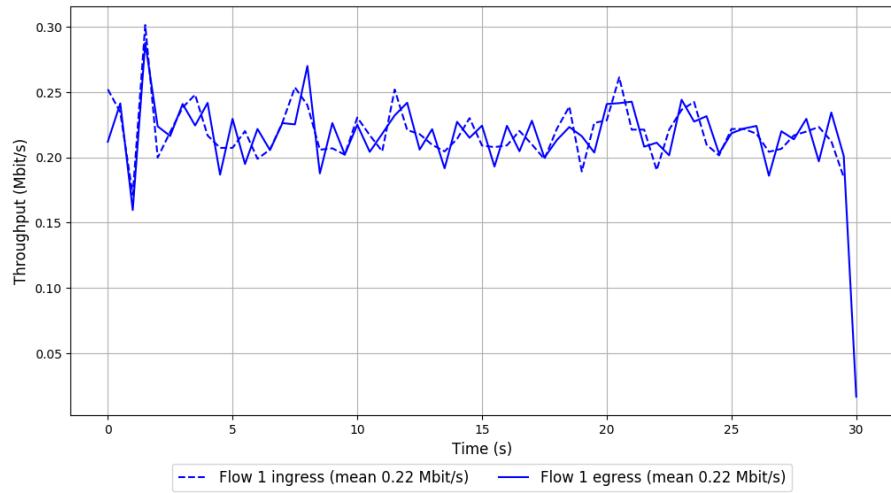
Run 8: Statistics of SCReAM

Start at: 2018-01-08 22:22:42

End at: 2018-01-08 22:23:13

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.989 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.989 ms
Loss rate: 0.00%
```

Run 8: Report of SCReAM — Data Link



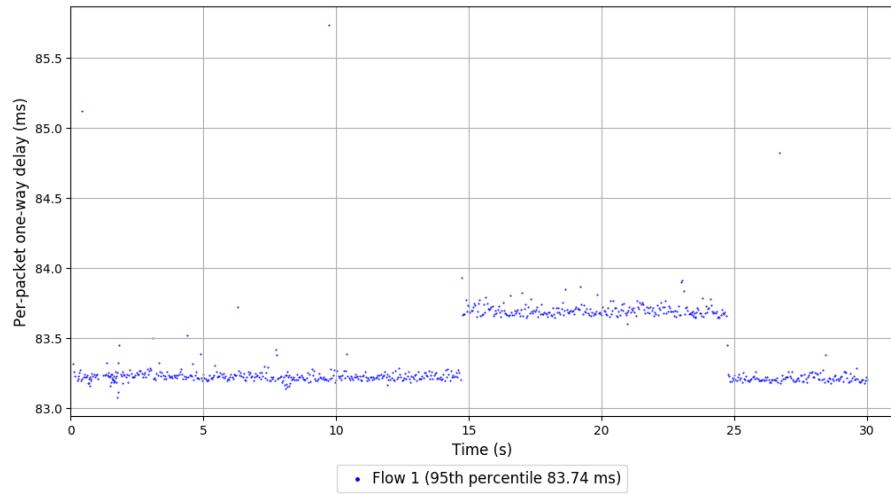
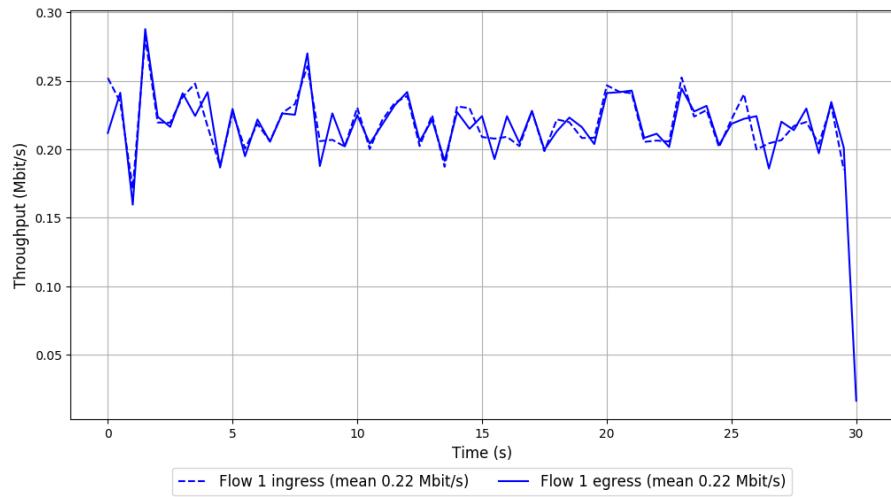
Run 9: Statistics of SCReAM

Start at: 2018-01-08 22:34:59

End at: 2018-01-08 22:35:29

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.736 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.736 ms
Loss rate: 0.00%
```

Run 9: Report of SCReAM — Data Link



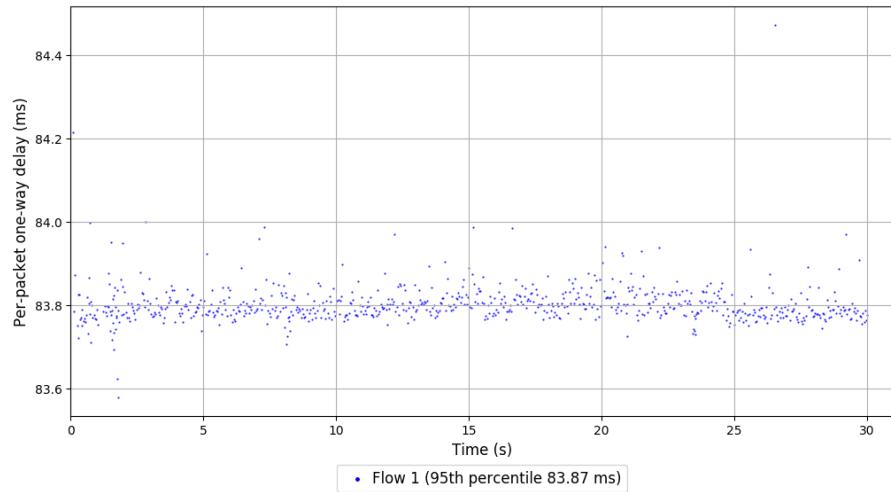
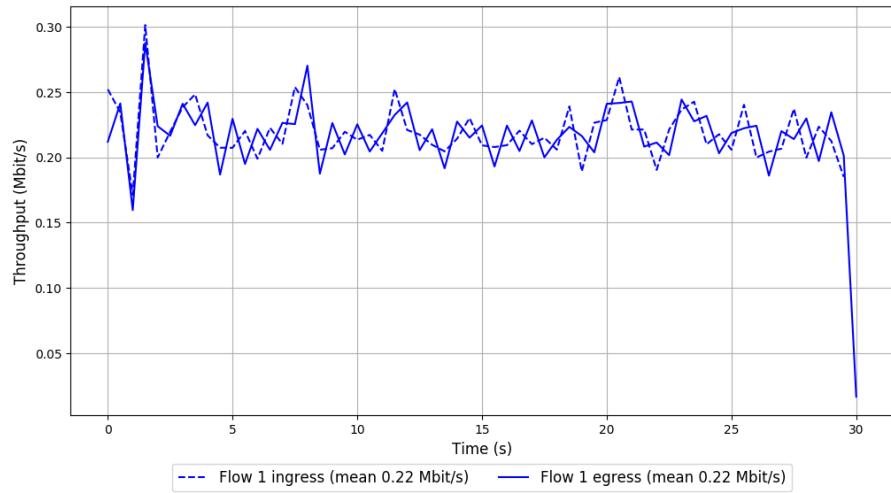
Run 10: Statistics of SCReAM

Start at: 2018-01-08 22:46:55

End at: 2018-01-08 22:47:25

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.870 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.870 ms
Loss rate: 0.00%
```

Run 10: Report of SCReAM — Data Link

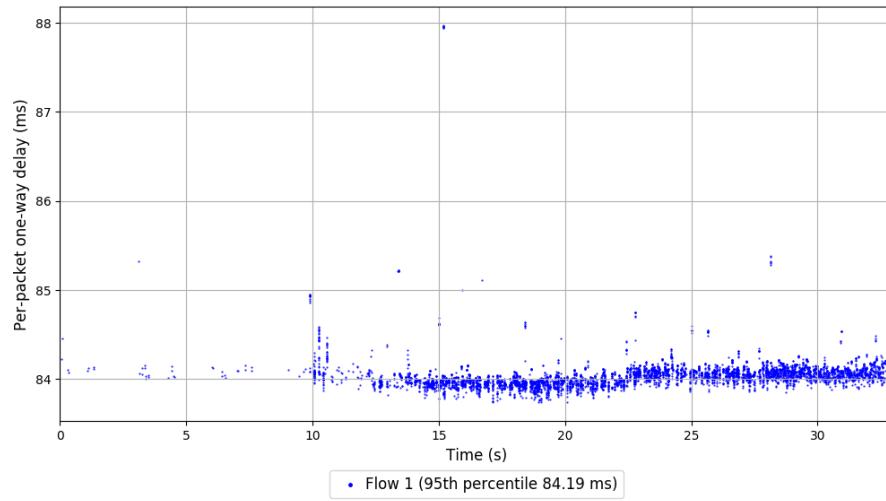
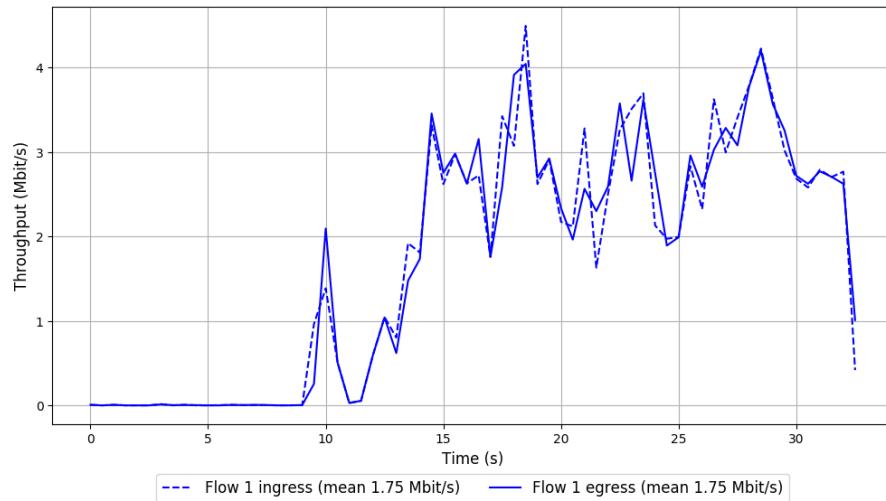


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-08 20:51:44
End at: 2018-01-08 20:52:14

# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.75 Mbit/s
95th percentile per-packet one-way delay: 84.187 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.75 Mbit/s
95th percentile per-packet one-way delay: 84.187 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



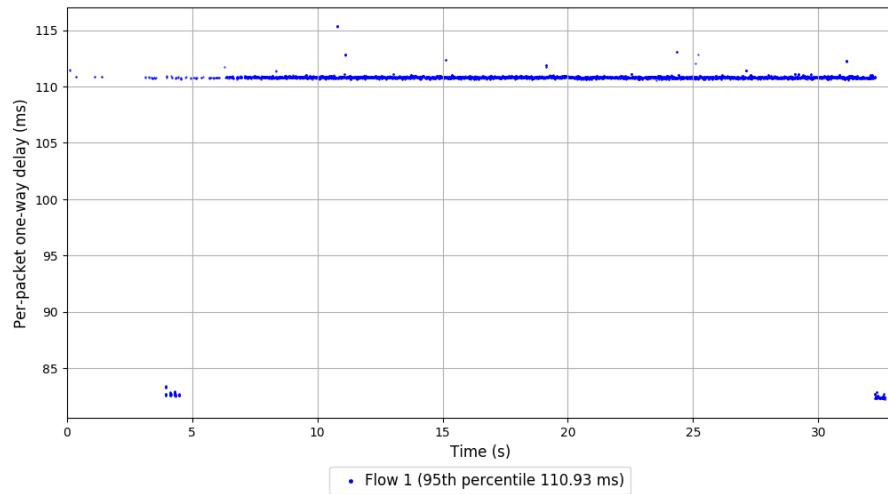
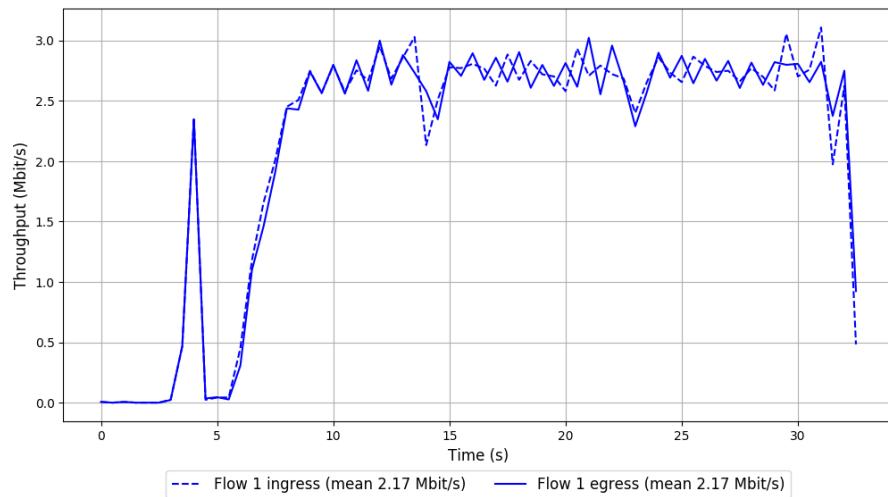
Run 2: Statistics of WebRTC media

Start at: 2018-01-08 21:03:45

End at: 2018-01-08 21:04:15

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 110.926 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 110.926 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

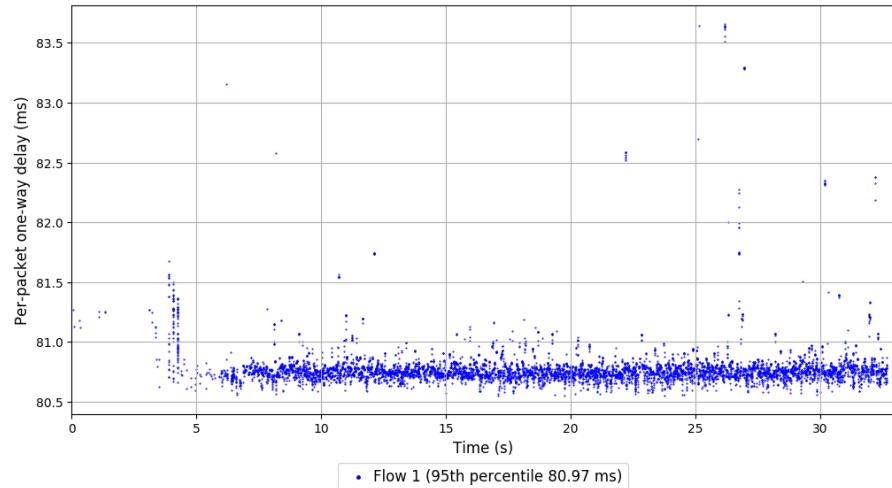
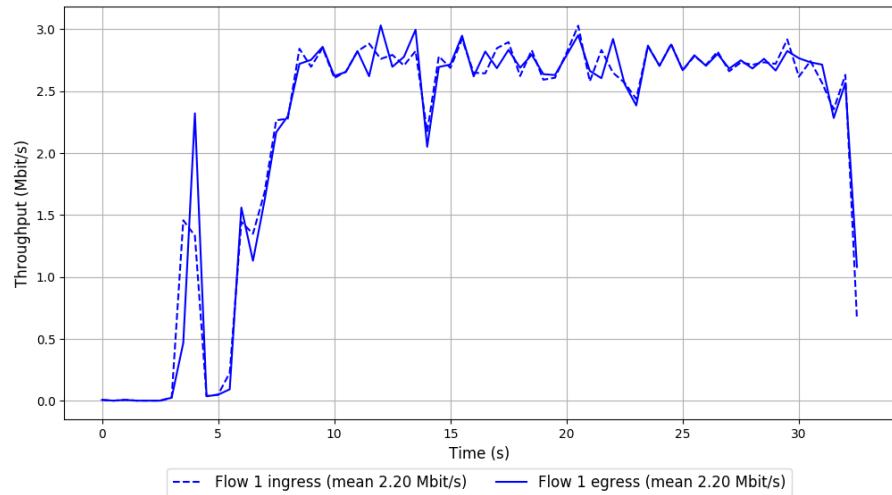


```
Run 3: Statistics of WebRTC media

Start at: 2018-01-08 21:15:53
End at: 2018-01-08 21:16:23

# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 80.965 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 80.965 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

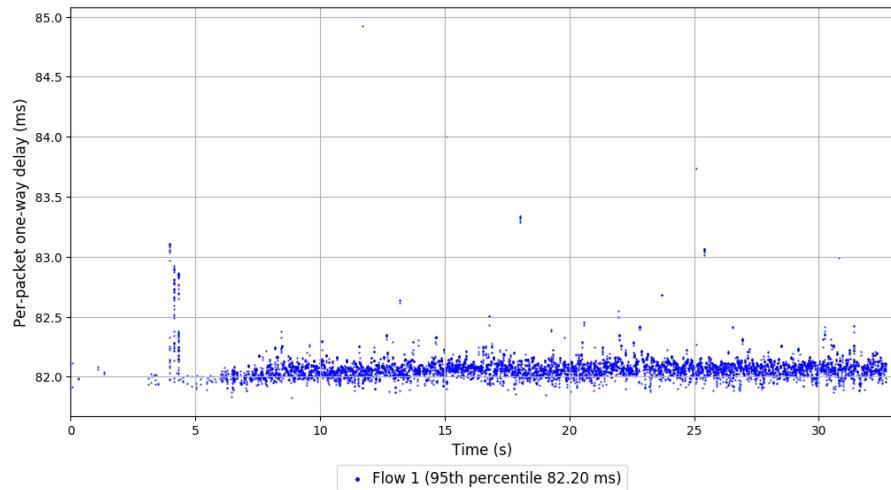
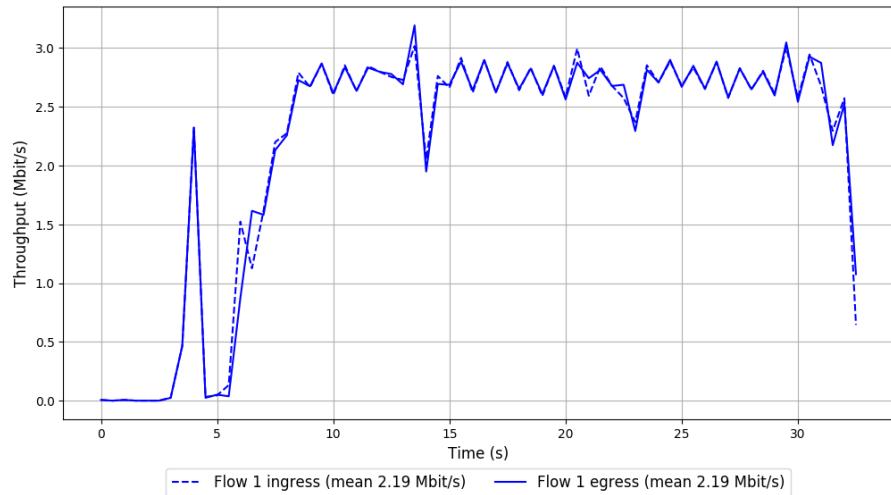


```
Run 4: Statistics of WebRTC media

Start at: 2018-01-08 21:28:00
End at: 2018-01-08 21:28:30

# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 82.196 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 82.196 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



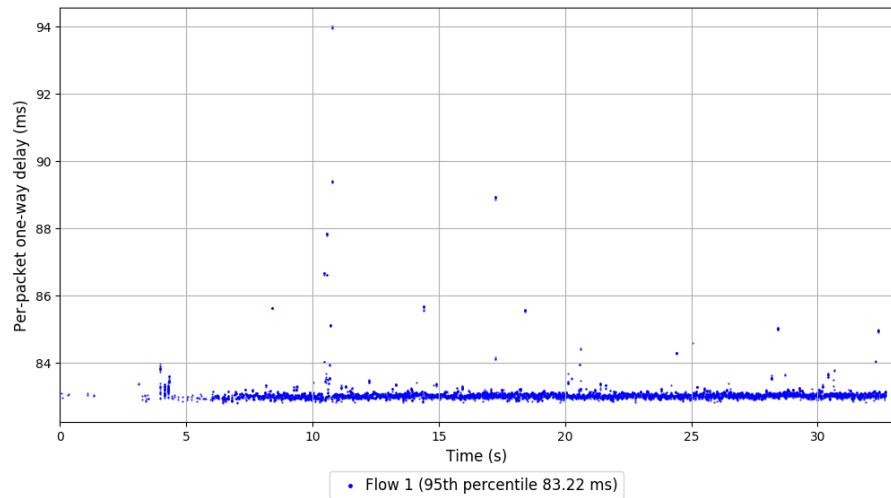
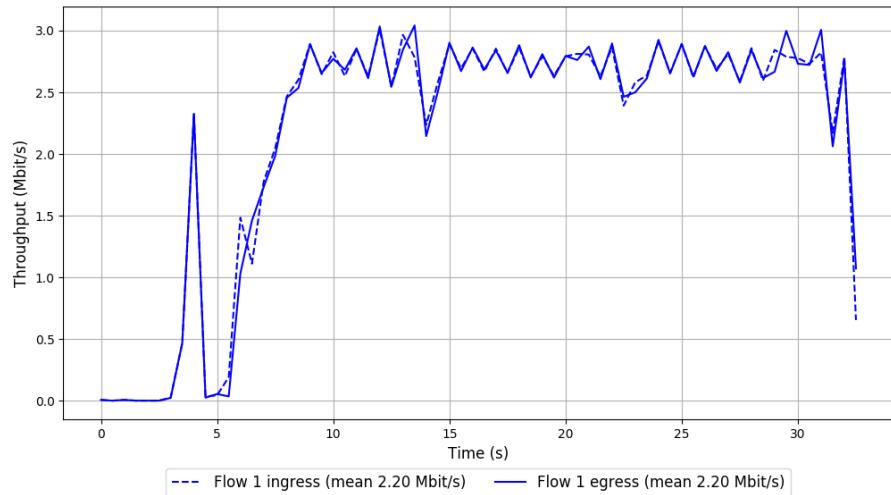
Run 5: Statistics of WebRTC media

Start at: 2018-01-08 21:39:35

End at: 2018-01-08 21:40:05

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 83.221 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 83.221 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link



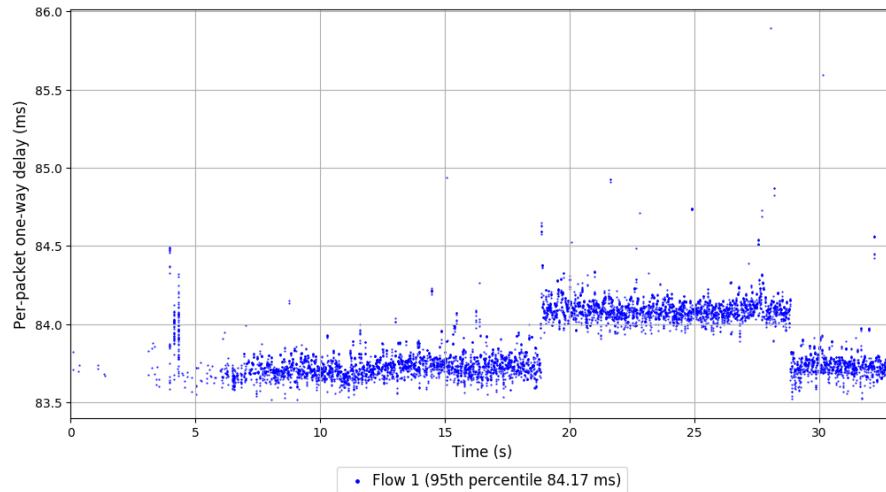
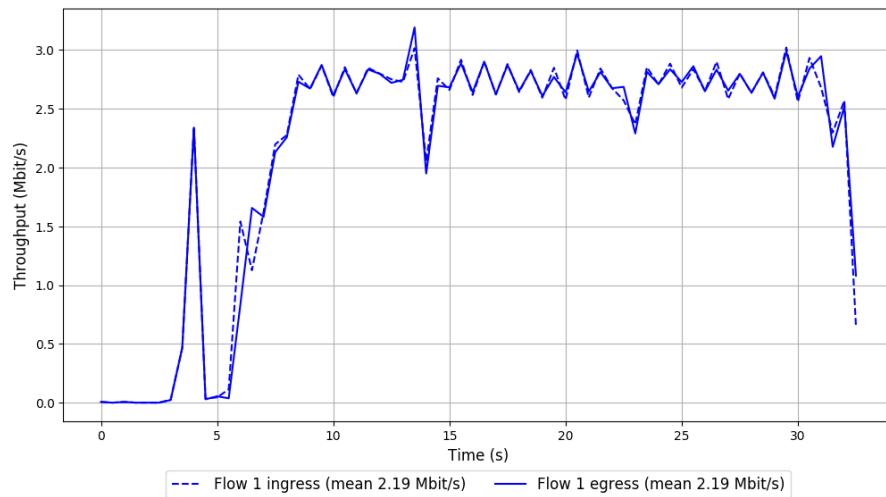
Run 6: Statistics of WebRTC media

Start at: 2018-01-08 21:51:49

End at: 2018-01-08 21:52:19

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 84.167 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 84.167 ms
Loss rate: 0.00%
```

Run 6: Report of WebRTC media — Data Link

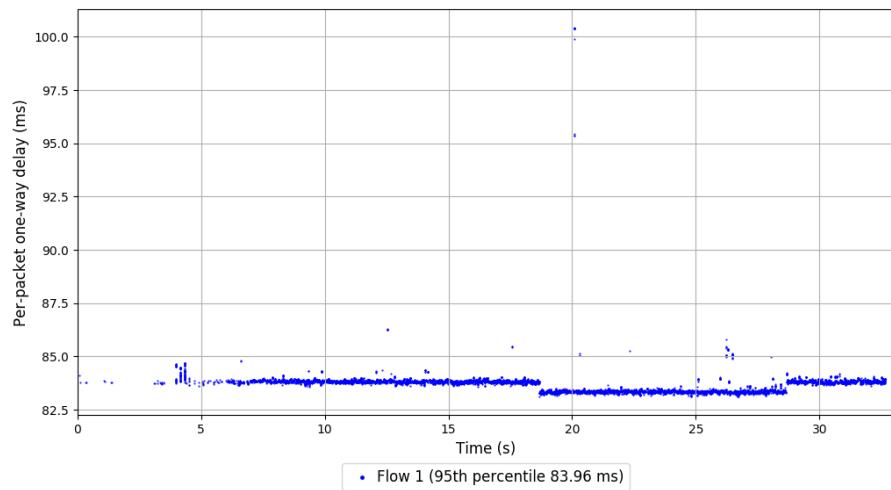
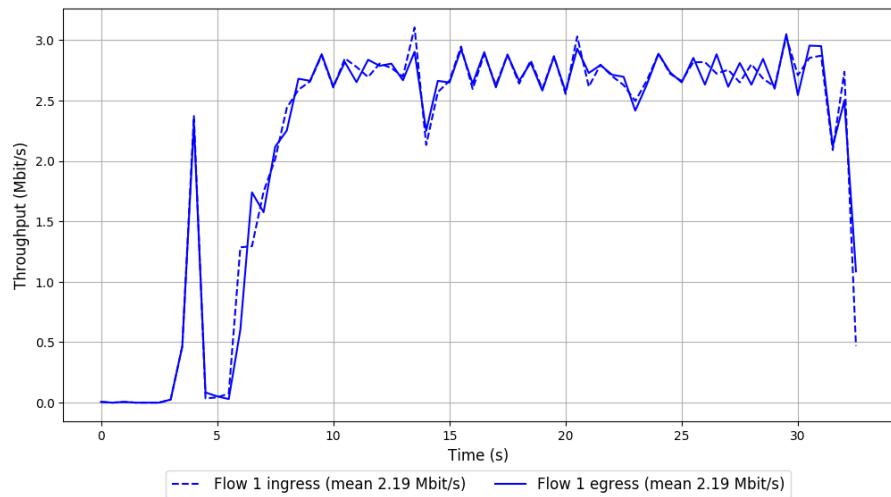


```
Run 7: Statistics of WebRTC media

Start at: 2018-01-08 22:03:29
End at: 2018-01-08 22:03:59

# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 83.956 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 83.956 ms
Loss rate: 0.00%
```

Run 7: Report of WebRTC media — Data Link

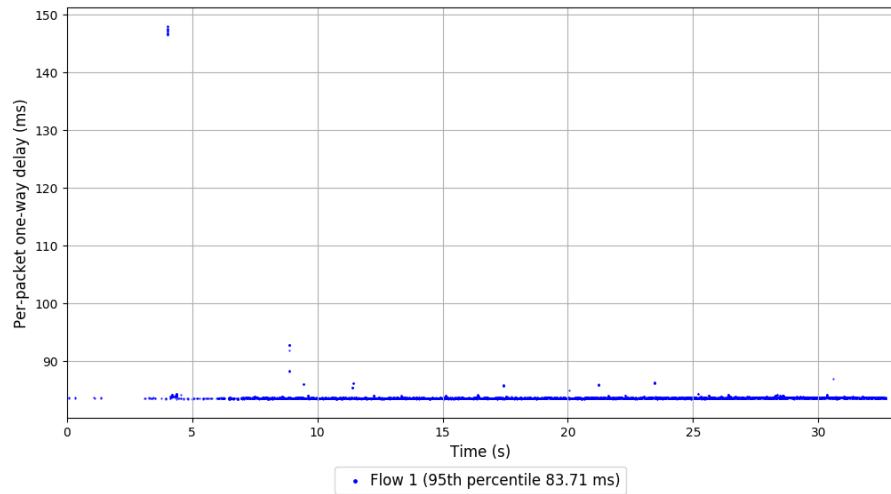
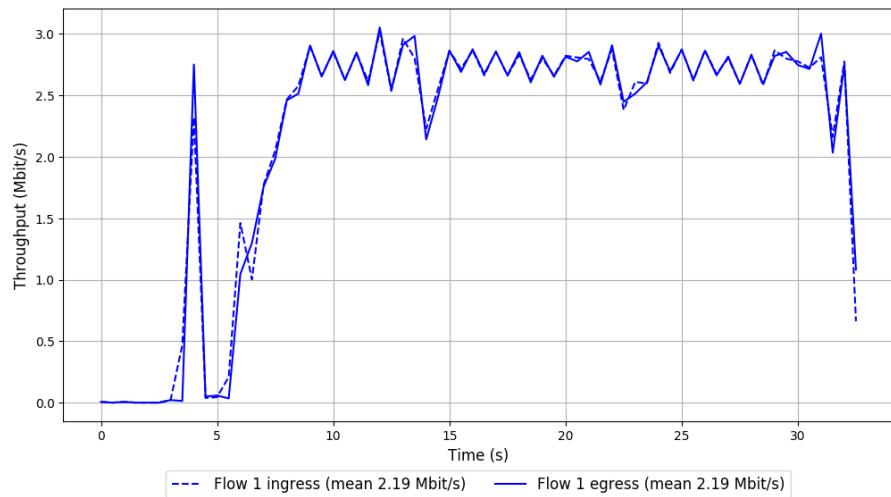


```
Run 8: Statistics of WebRTC media

Start at: 2018-01-08 22:15:40
End at: 2018-01-08 22:16:10

# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 83.706 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 83.706 ms
Loss rate: 0.00%
```

Run 8: Report of WebRTC media — Data Link

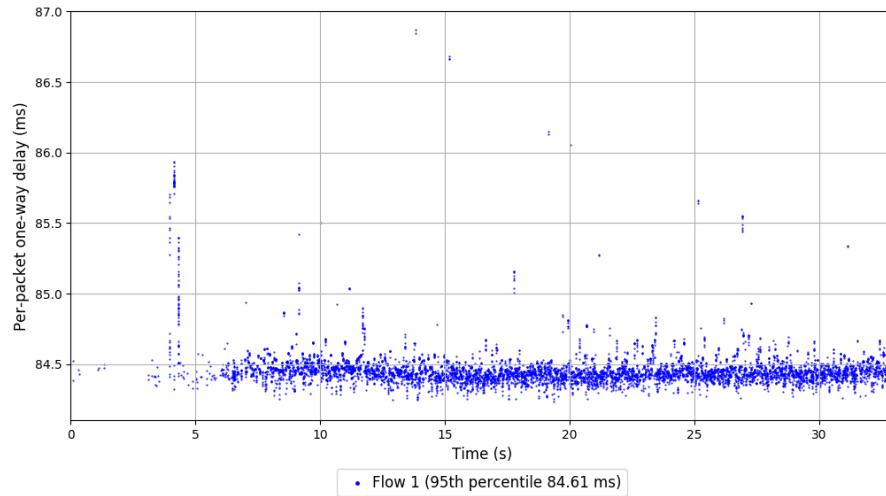
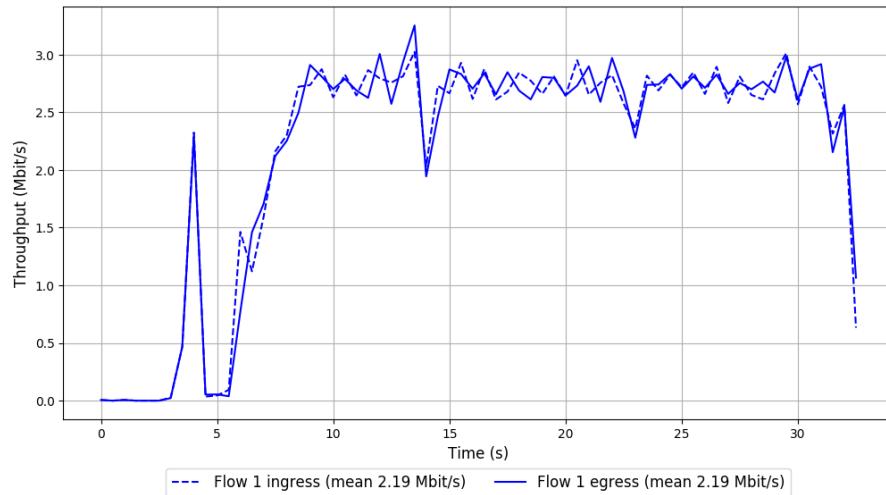


```
Run 9: Statistics of WebRTC media

Start at: 2018-01-08 22:27:54
End at: 2018-01-08 22:28:24

# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 84.613 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 84.613 ms
Loss rate: 0.00%
```

Run 9: Report of WebRTC media — Data Link



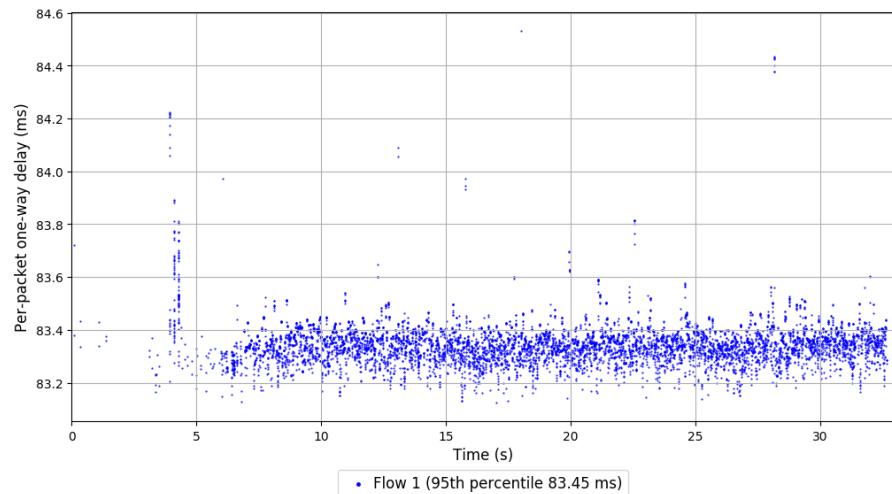
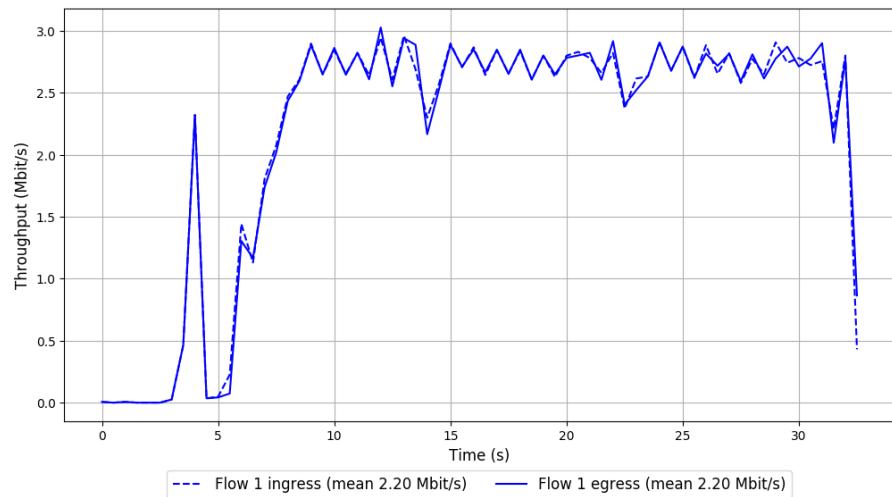
Run 10: Statistics of WebRTC media

Start at: 2018-01-08 22:39:52

End at: 2018-01-08 22:40:22

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 83.448 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 83.448 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link



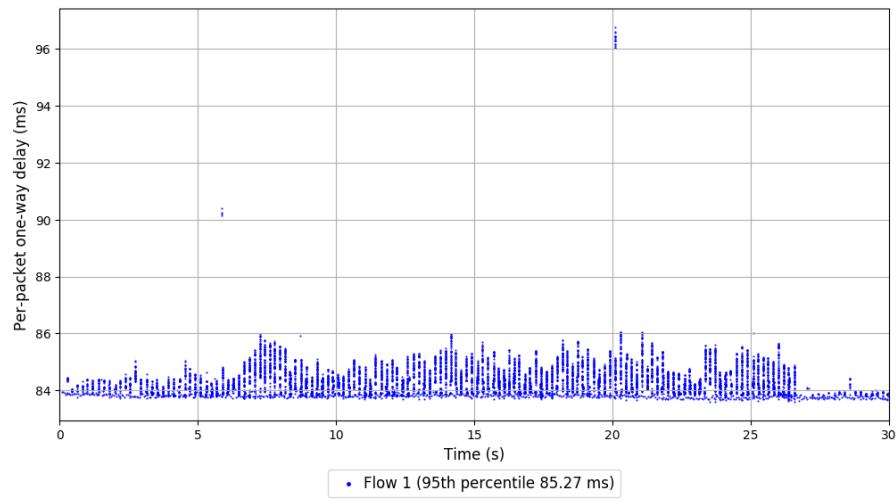
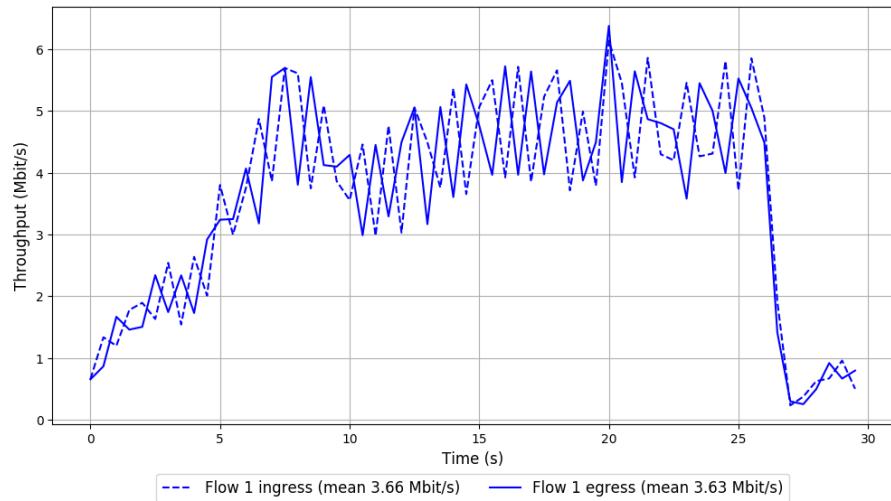
Run 1: Statistics of Sprout

Start at: 2018-01-08 20:53:12

End at: 2018-01-08 20:53:42

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.63 Mbit/s
95th percentile per-packet one-way delay: 85.274 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 3.63 Mbit/s
95th percentile per-packet one-way delay: 85.274 ms
Loss rate: 0.77%
```

Run 1: Report of Sprout — Data Link



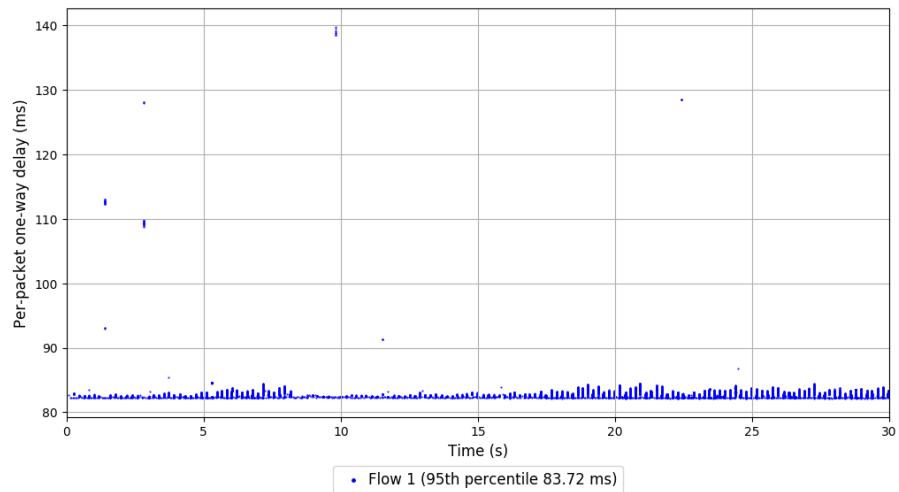
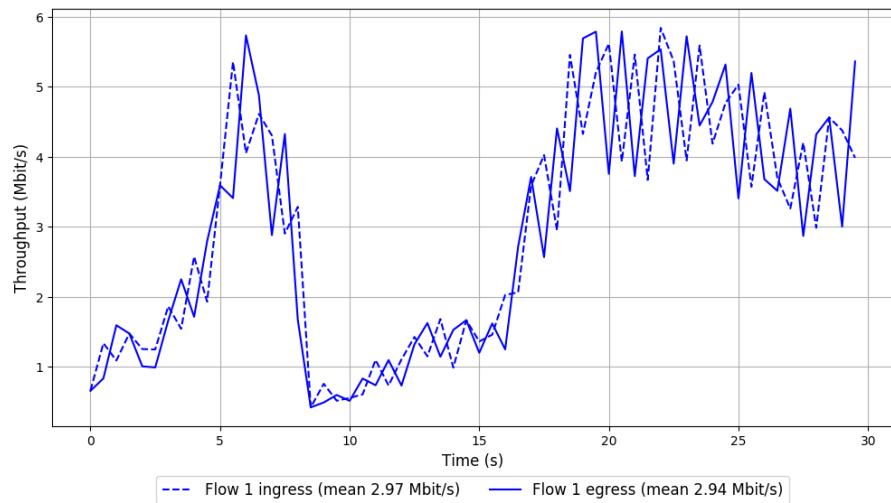
Run 2: Statistics of Sprout

Start at: 2018-01-08 21:05:18

End at: 2018-01-08 21:05:48

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.94 Mbit/s
95th percentile per-packet one-way delay: 83.715 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 2.94 Mbit/s
95th percentile per-packet one-way delay: 83.715 ms
Loss rate: 0.91%
```

Run 2: Report of Sprout — Data Link



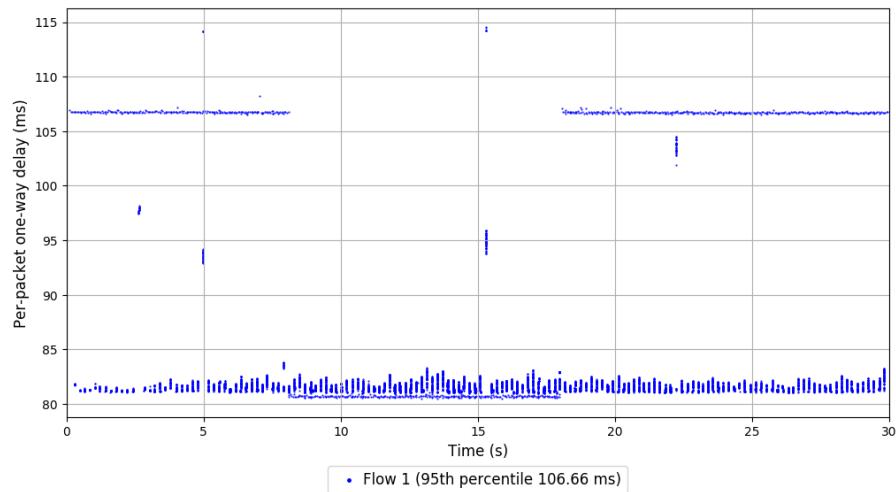
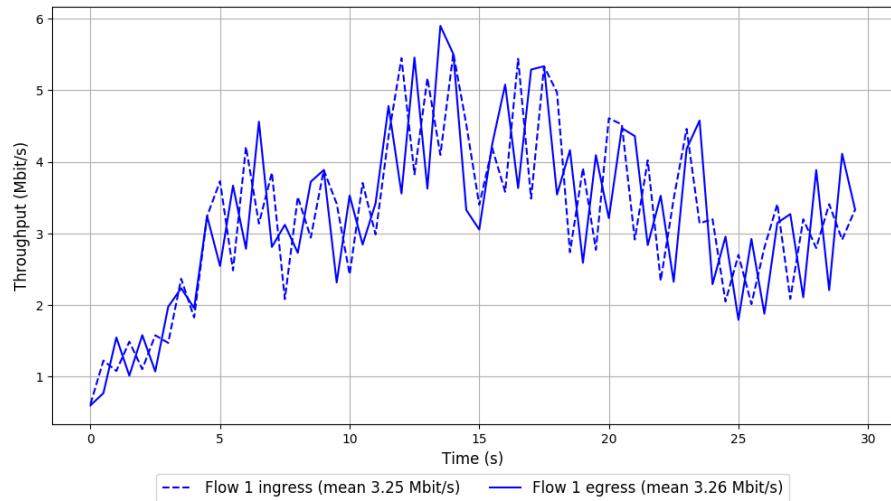
Run 3: Statistics of Sprout

Start at: 2018-01-08 21:17:26

End at: 2018-01-08 21:17:56

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.26 Mbit/s
95th percentile per-packet one-way delay: 106.660 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.26 Mbit/s
95th percentile per-packet one-way delay: 106.660 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link



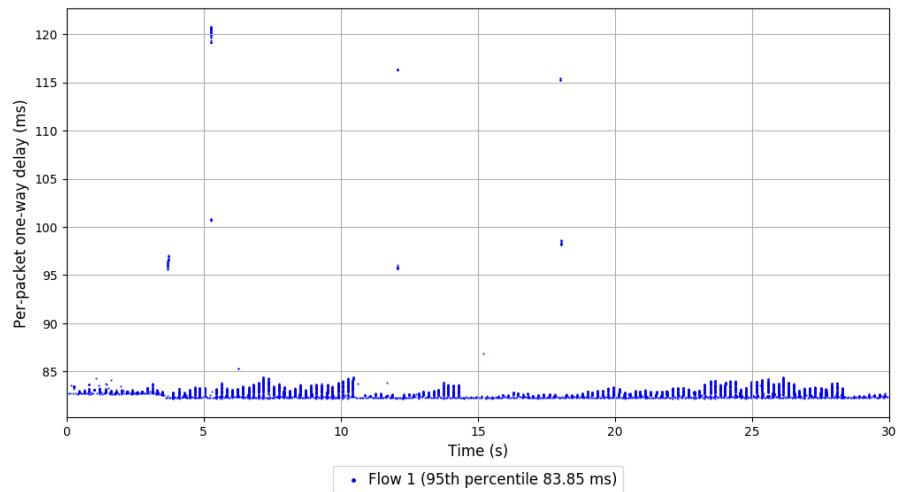
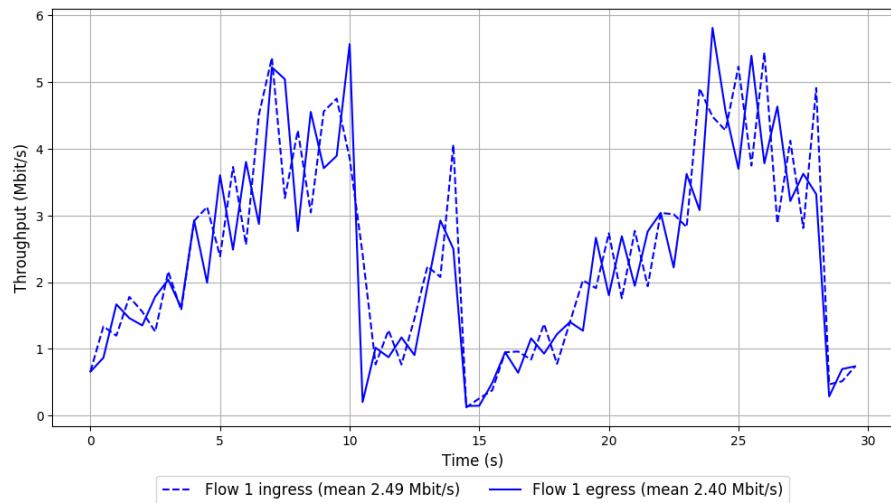
Run 4: Statistics of Sprout

Start at: 2018-01-08 21:29:31

End at: 2018-01-08 21:30:01

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 83.851 ms
Loss rate: 3.50%
-- Flow 1:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 83.851 ms
Loss rate: 3.50%
```

Run 4: Report of Sprout — Data Link



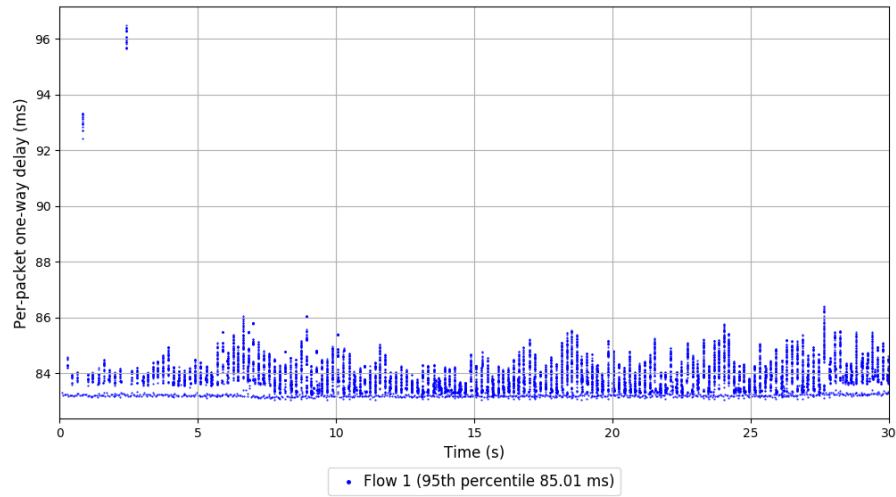
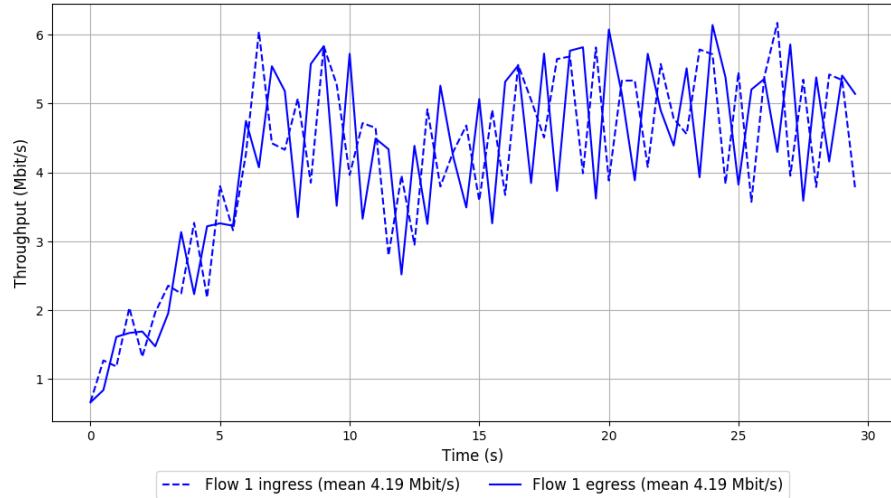
Run 5: Statistics of Sprout

Start at: 2018-01-08 21:41:07

End at: 2018-01-08 21:41:37

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.19 Mbit/s
95th percentile per-packet one-way delay: 85.011 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.19 Mbit/s
95th percentile per-packet one-way delay: 85.011 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link



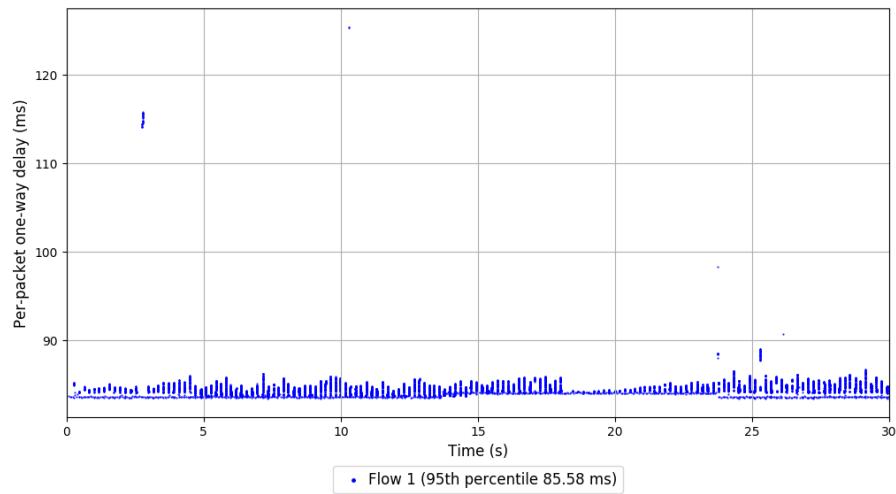
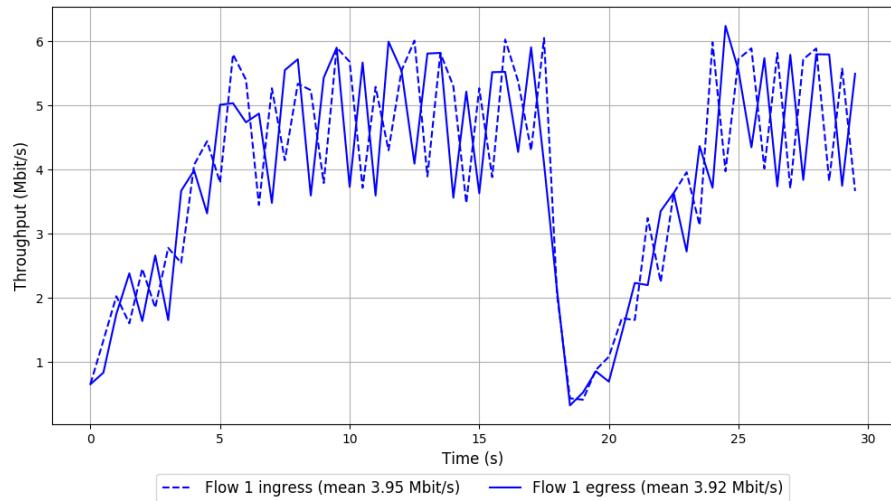
Run 6: Statistics of Sprout

Start at: 2018-01-08 21:53:20

End at: 2018-01-08 21:53:50

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.92 Mbit/s
95th percentile per-packet one-way delay: 85.581 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 3.92 Mbit/s
95th percentile per-packet one-way delay: 85.581 ms
Loss rate: 0.80%
```

Run 6: Report of Sprout — Data Link



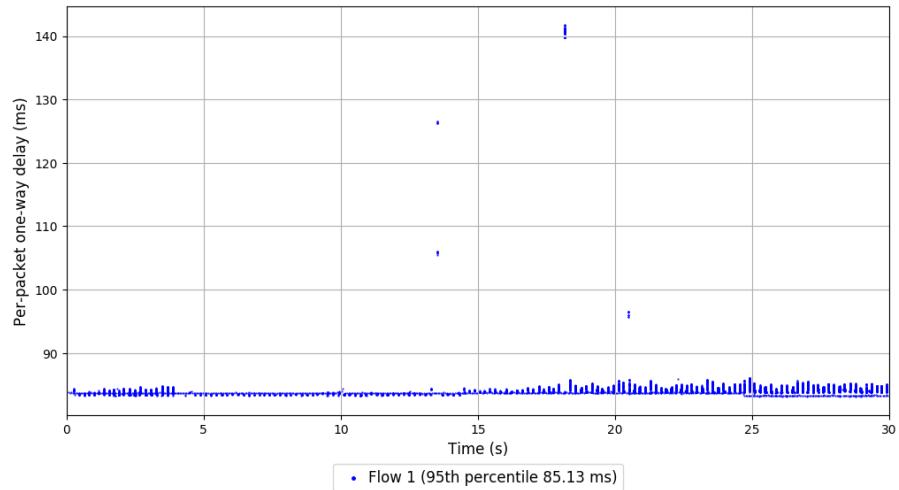
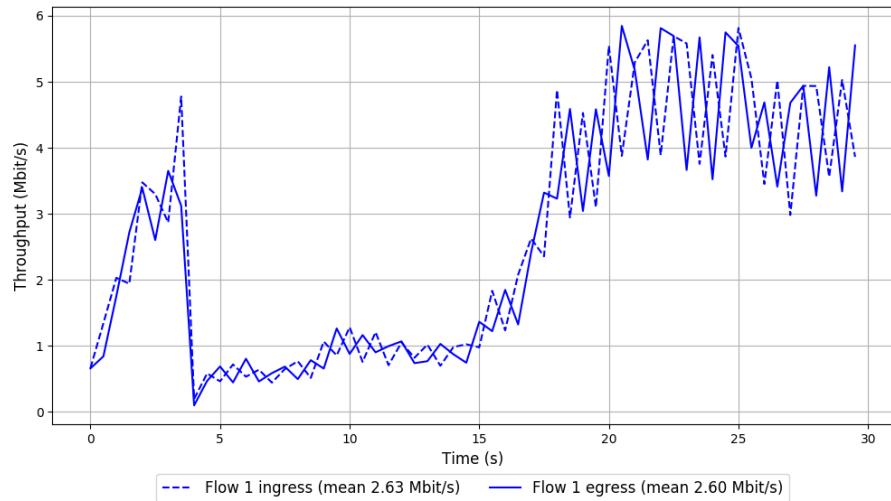
Run 7: Statistics of Sprout

Start at: 2018-01-08 22:05:00

End at: 2018-01-08 22:05:30

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.60 Mbit/s
95th percentile per-packet one-way delay: 85.131 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 2.60 Mbit/s
95th percentile per-packet one-way delay: 85.131 ms
Loss rate: 1.04%
```

Run 7: Report of Sprout — Data Link



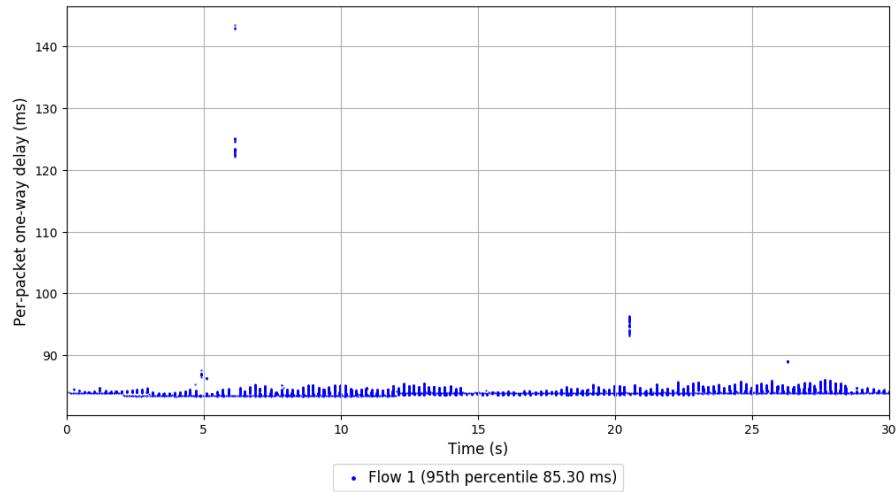
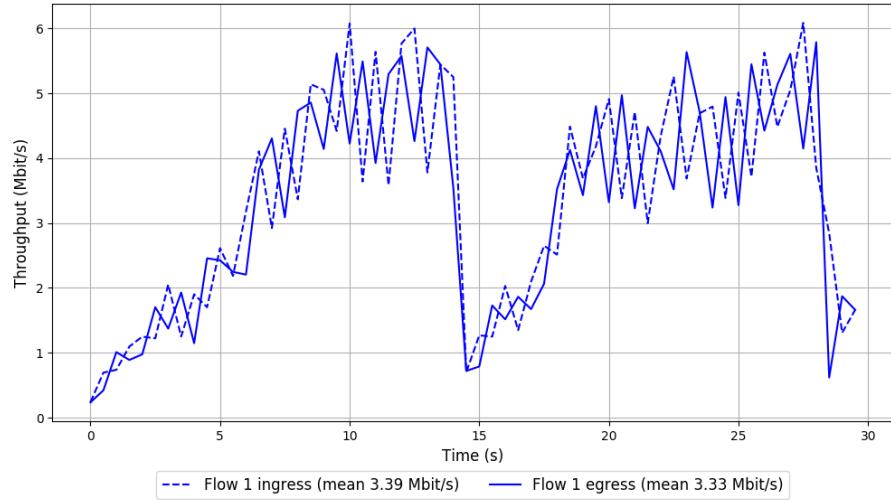
Run 8: Statistics of Sprout

Start at: 2018-01-08 22:17:12

End at: 2018-01-08 22:17:42

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.33 Mbit/s
95th percentile per-packet one-way delay: 85.295 ms
Loss rate: 1.65%
-- Flow 1:
Average throughput: 3.33 Mbit/s
95th percentile per-packet one-way delay: 85.295 ms
Loss rate: 1.65%
```

Run 8: Report of Sprout — Data Link



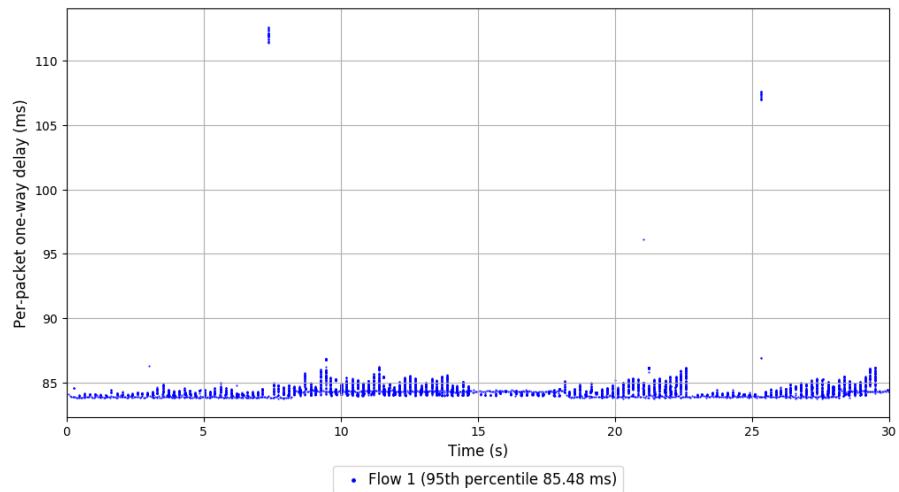
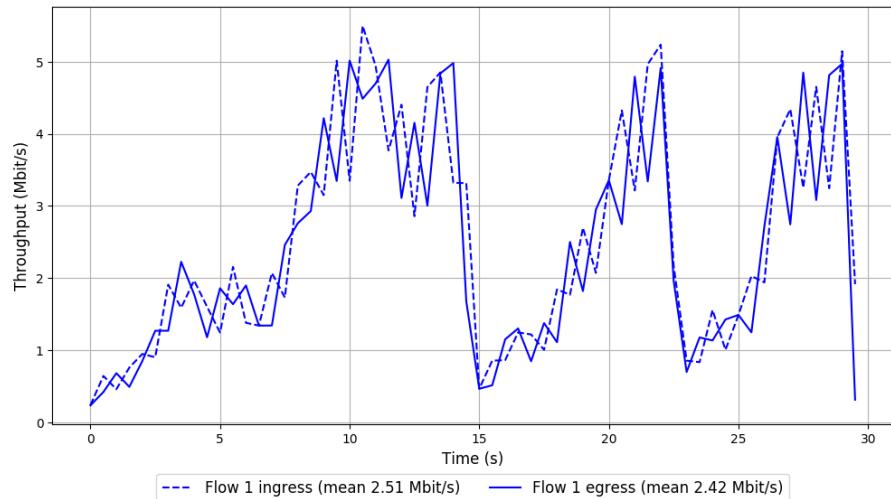
Run 9: Statistics of Sprout

Start at: 2018-01-08 22:29:26

End at: 2018-01-08 22:29:56

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 85.481 ms
Loss rate: 3.58%
-- Flow 1:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 85.481 ms
Loss rate: 3.58%
```

Run 9: Report of Sprout — Data Link



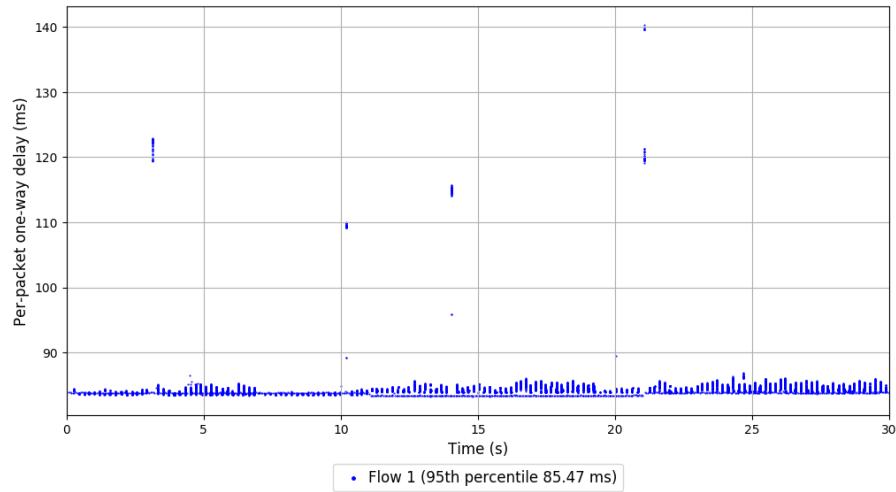
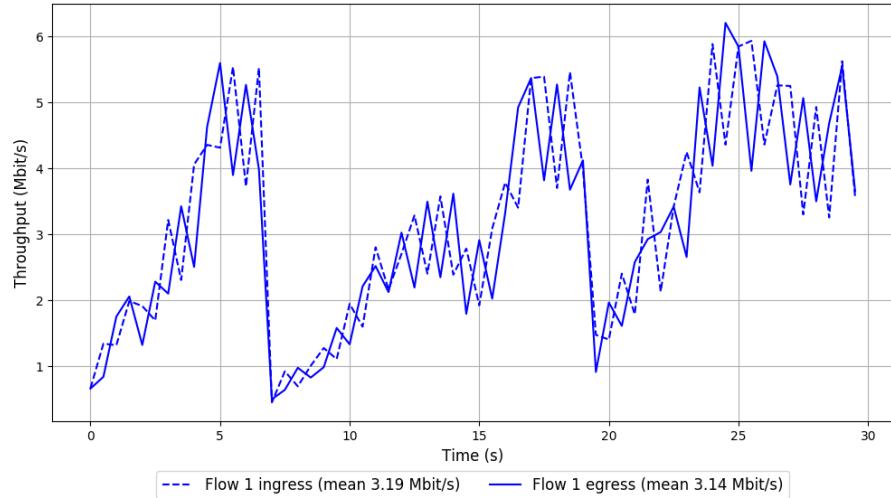
Run 10: Statistics of Sprout

Start at: 2018-01-08 22:41:24

End at: 2018-01-08 22:41:54

```
# Below is generated by plot.py at 2018-01-08 23:57:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.14 Mbit/s
95th percentile per-packet one-way delay: 85.474 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 3.14 Mbit/s
95th percentile per-packet one-way delay: 85.474 ms
Loss rate: 1.70%
```

Run 10: Report of Sprout — Data Link



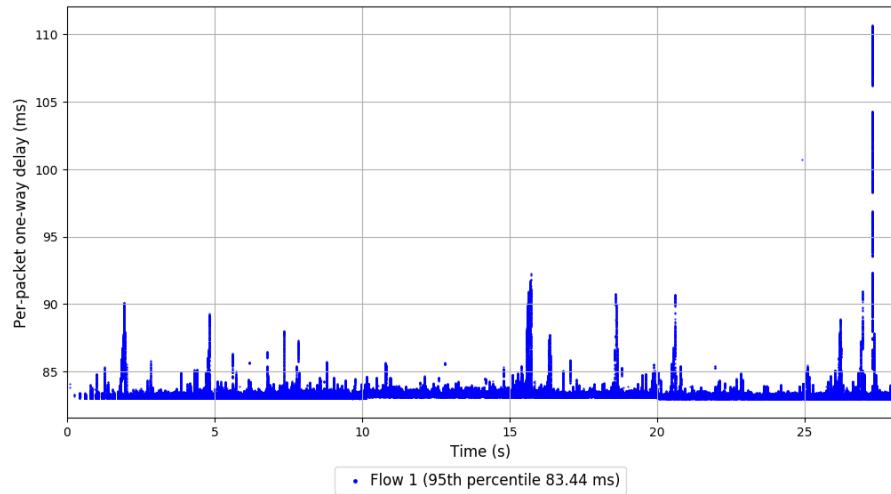
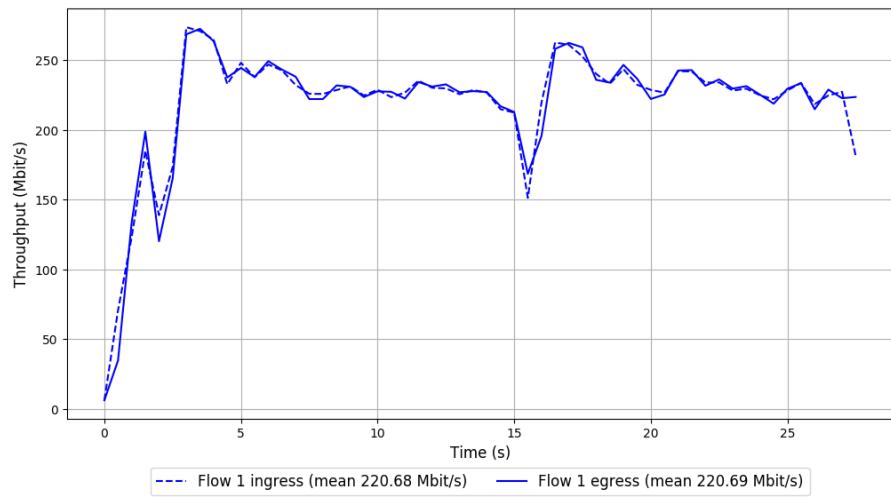
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-08 20:57:03

End at: 2018-01-08 20:57:33

```
# Below is generated by plot.py at 2018-01-08 23:59:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.69 Mbit/s
95th percentile per-packet one-way delay: 83.436 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 220.69 Mbit/s
95th percentile per-packet one-way delay: 83.436 ms
Loss rate: 0.00%
```

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



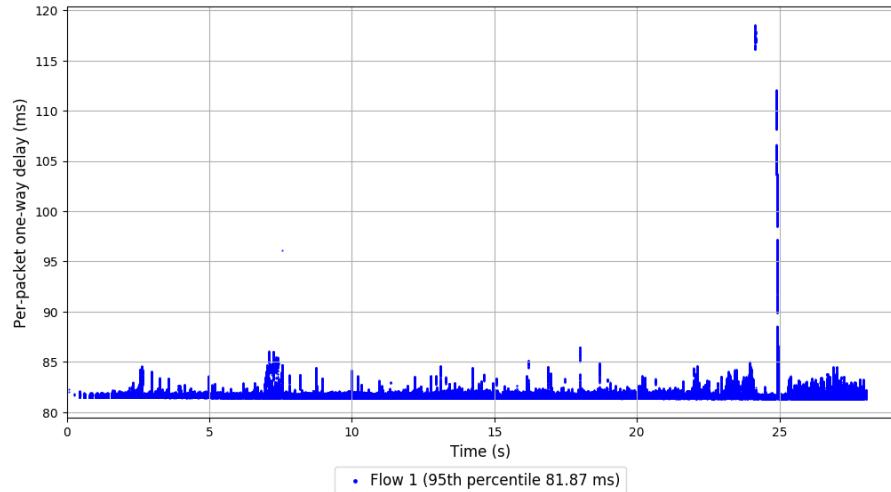
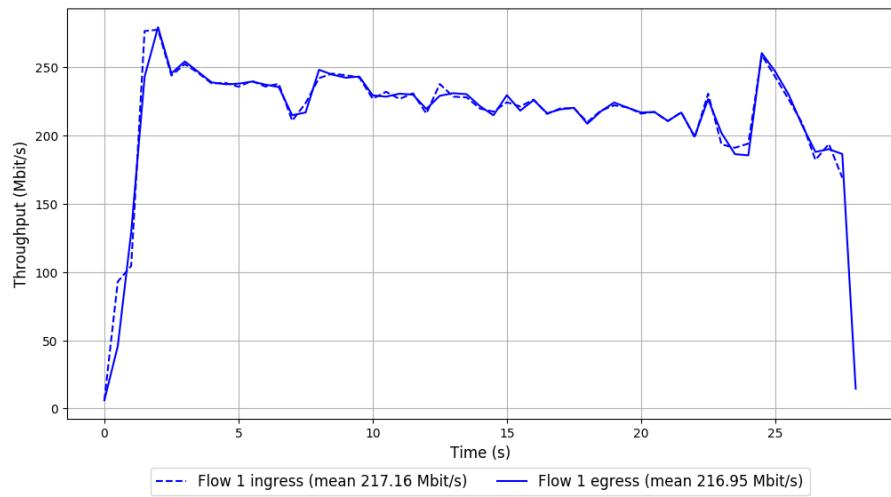
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-08 21:09:09

End at: 2018-01-08 21:09:39

```
# Below is generated by plot.py at 2018-01-08 23:59:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.95 Mbit/s
95th percentile per-packet one-way delay: 81.874 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 216.95 Mbit/s
95th percentile per-packet one-way delay: 81.874 ms
Loss rate: 0.10%
```

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



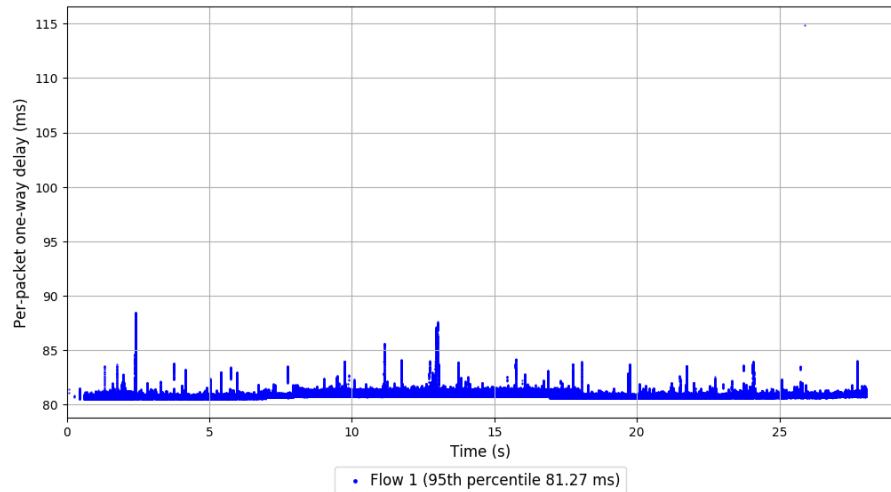
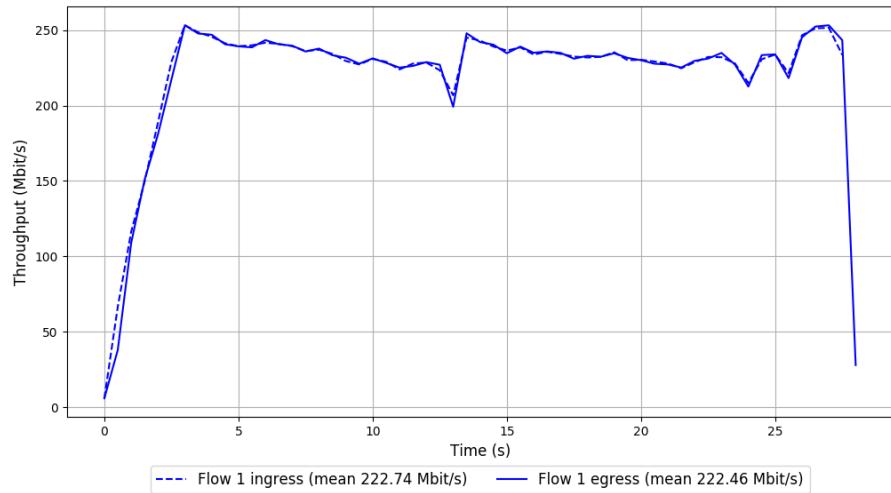
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-08 21:21:15

End at: 2018-01-08 21:21:45

```
# Below is generated by plot.py at 2018-01-08 23:59:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.46 Mbit/s
95th percentile per-packet one-way delay: 81.267 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 222.46 Mbit/s
95th percentile per-packet one-way delay: 81.267 ms
Loss rate: 0.12%
```

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



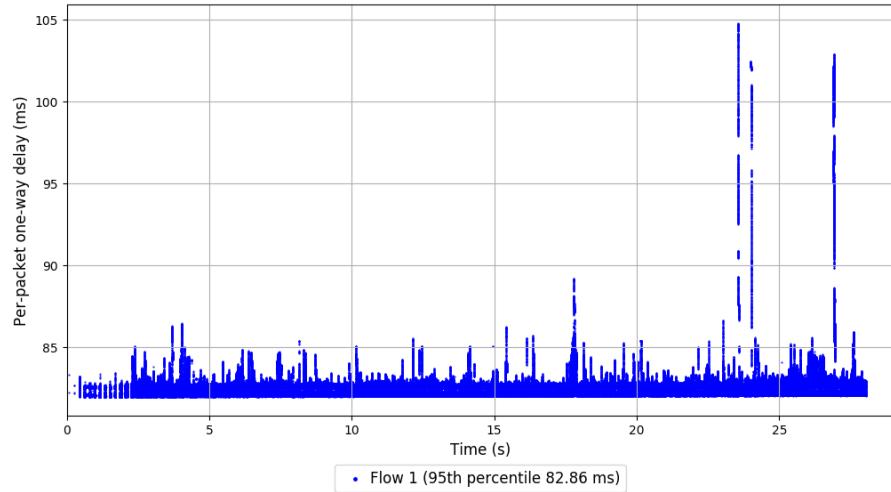
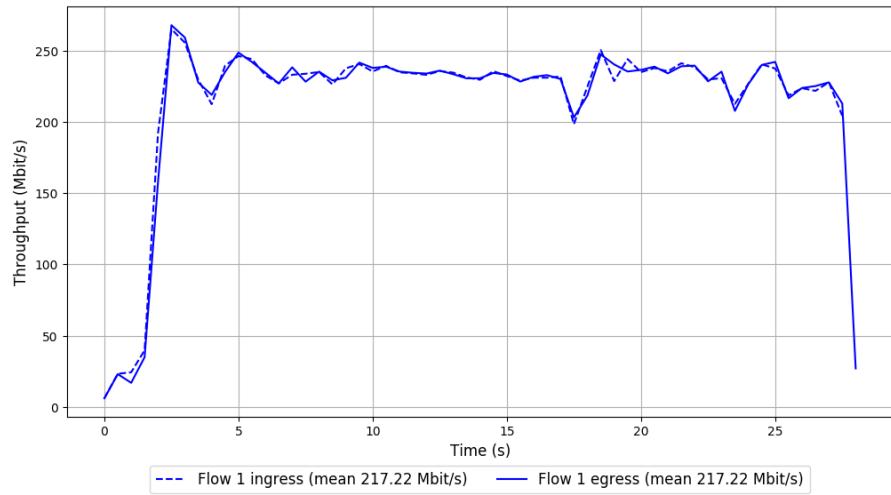
Run 4: Statistics of TaoVA-100x

Start at: 2018-01-08 21:33:21

End at: 2018-01-08 21:33:51

```
# Below is generated by plot.py at 2018-01-08 23:59:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 217.22 Mbit/s
95th percentile per-packet one-way delay: 82.865 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 217.22 Mbit/s
95th percentile per-packet one-way delay: 82.865 ms
Loss rate: 0.00%
```

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



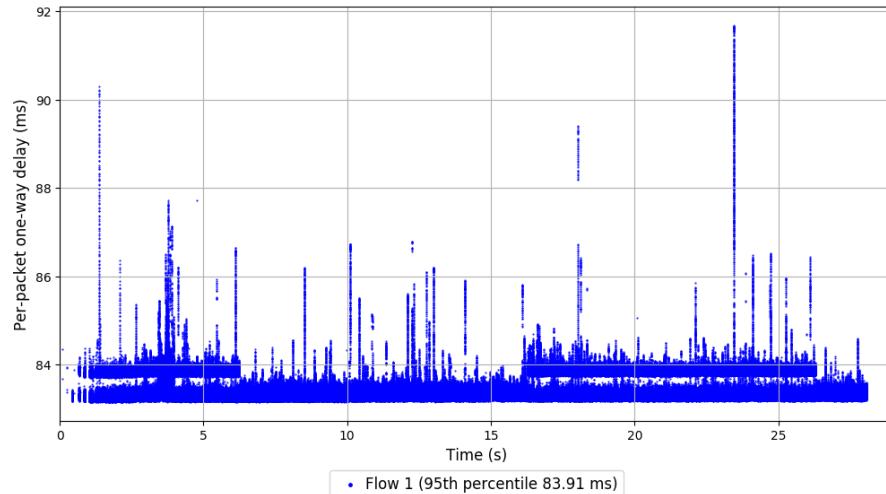
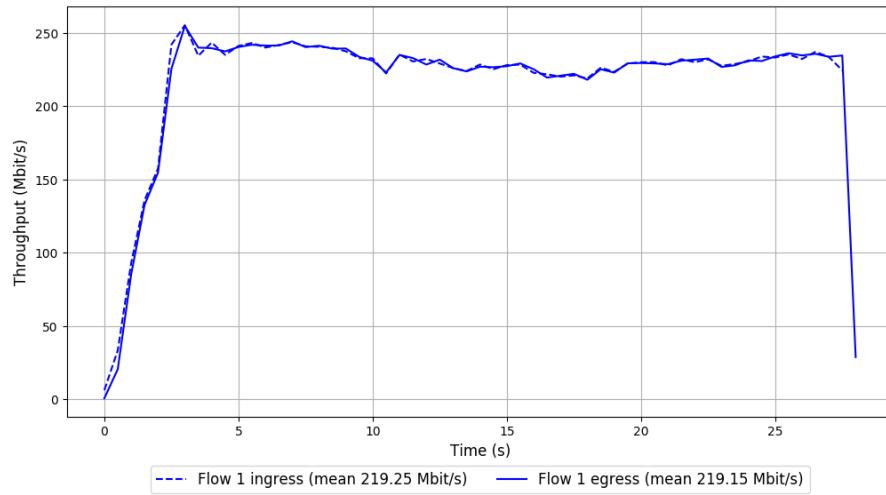
Run 5: Statistics of TaoVA-100x

Start at: 2018-01-08 21:44:57

End at: 2018-01-08 21:45:27

```
# Below is generated by plot.py at 2018-01-08 23:59:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.15 Mbit/s
95th percentile per-packet one-way delay: 83.909 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 219.15 Mbit/s
95th percentile per-packet one-way delay: 83.909 ms
Loss rate: 0.05%
```

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



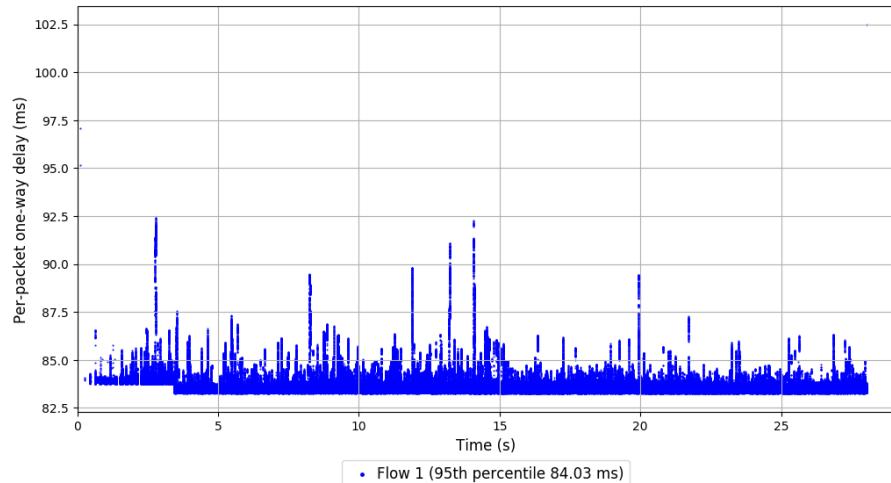
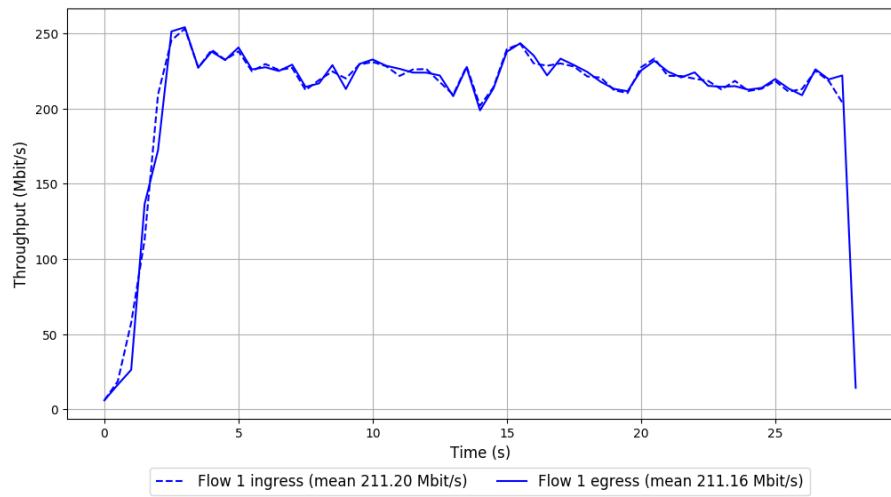
Run 6: Statistics of TaoVA-100x

Start at: 2018-01-08 21:56:59

End at: 2018-01-08 21:57:29

```
# Below is generated by plot.py at 2018-01-08 23:59:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 211.16 Mbit/s
95th percentile per-packet one-way delay: 84.033 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 211.16 Mbit/s
95th percentile per-packet one-way delay: 84.033 ms
Loss rate: 0.02%
```

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



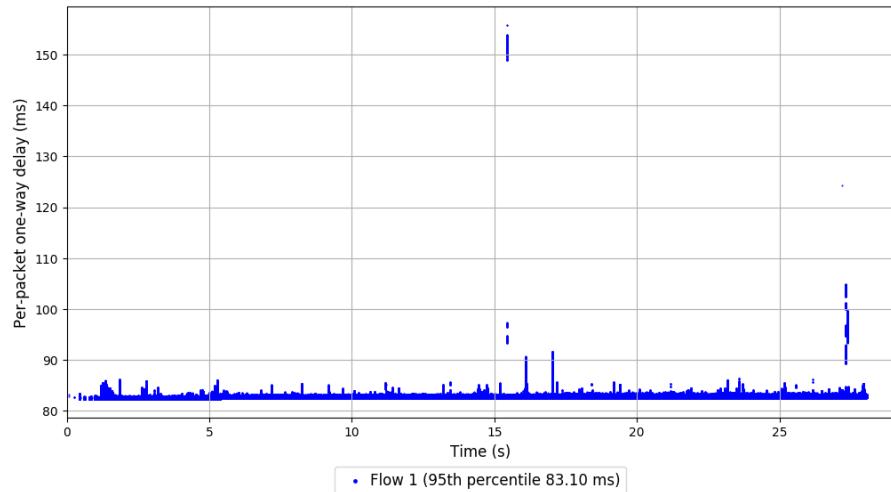
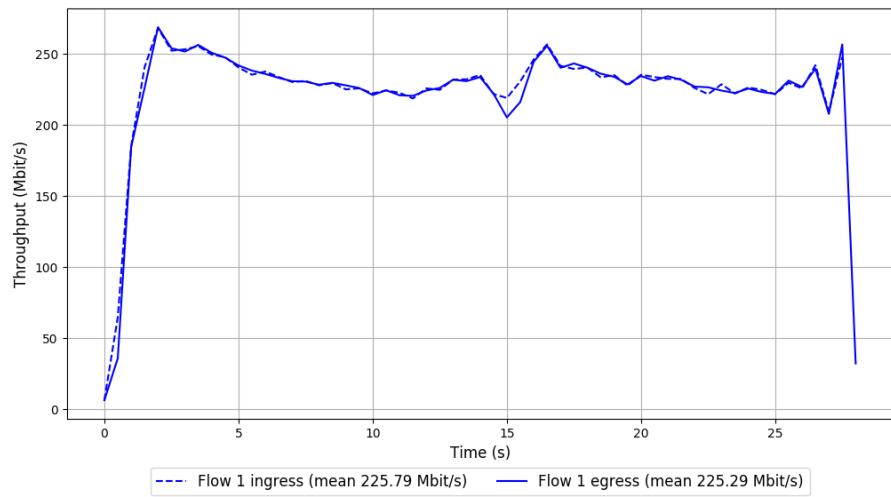
Run 7: Statistics of TaoVA-100x

Start at: 2018-01-08 22:08:48

End at: 2018-01-08 22:09:18

```
# Below is generated by plot.py at 2018-01-09 00:03:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.29 Mbit/s
95th percentile per-packet one-way delay: 83.099 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 225.29 Mbit/s
95th percentile per-packet one-way delay: 83.099 ms
Loss rate: 0.22%
```

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



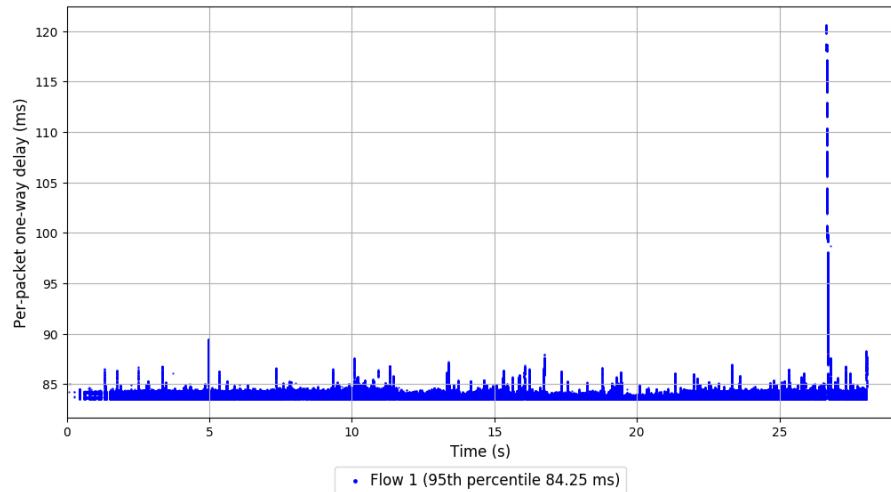
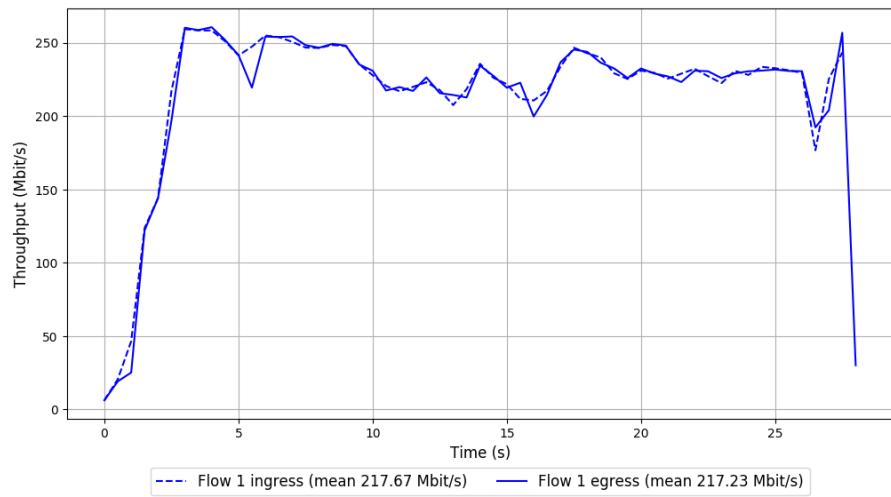
Run 8: Statistics of TaoVA-100x

Start at: 2018-01-08 22:21:01

End at: 2018-01-08 22:21:31

```
# Below is generated by plot.py at 2018-01-09 00:03:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 217.23 Mbit/s
95th percentile per-packet one-way delay: 84.248 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 217.23 Mbit/s
95th percentile per-packet one-way delay: 84.248 ms
Loss rate: 0.20%
```

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



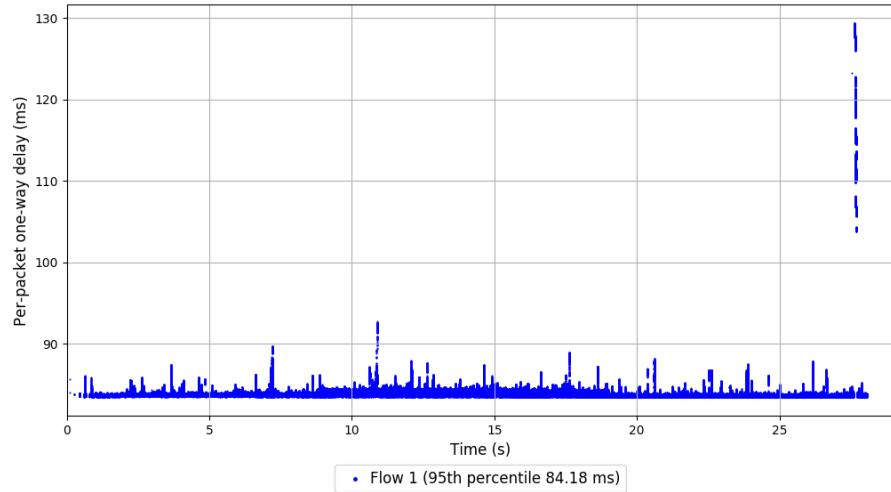
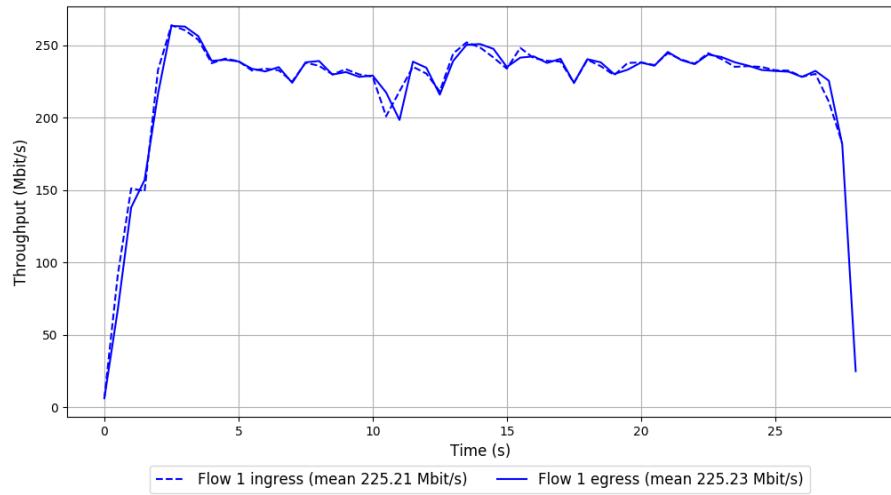
Run 9: Statistics of TaoVA-100x

Start at: 2018-01-08 22:33:14

End at: 2018-01-08 22:33:44

```
# Below is generated by plot.py at 2018-01-09 00:05:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.23 Mbit/s
95th percentile per-packet one-way delay: 84.184 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 225.23 Mbit/s
95th percentile per-packet one-way delay: 84.184 ms
Loss rate: 0.00%
```

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



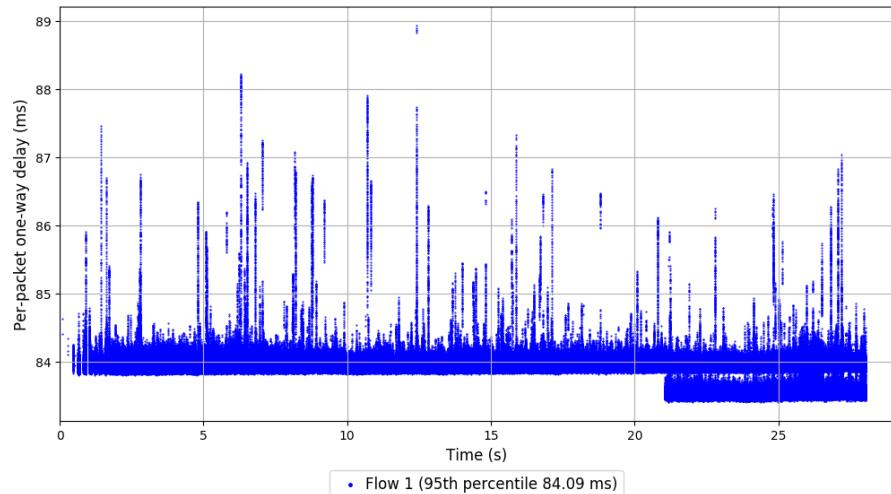
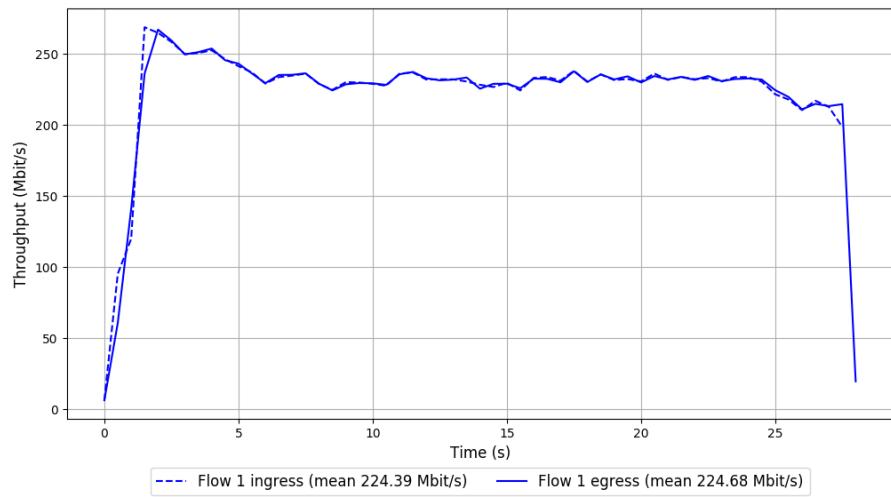
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-08 22:45:12

End at: 2018-01-08 22:45:42

```
# Below is generated by plot.py at 2018-01-09 00:05:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.68 Mbit/s
95th percentile per-packet one-way delay: 84.091 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 224.68 Mbit/s
95th percentile per-packet one-way delay: 84.091 ms
Loss rate: 0.00%
```

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



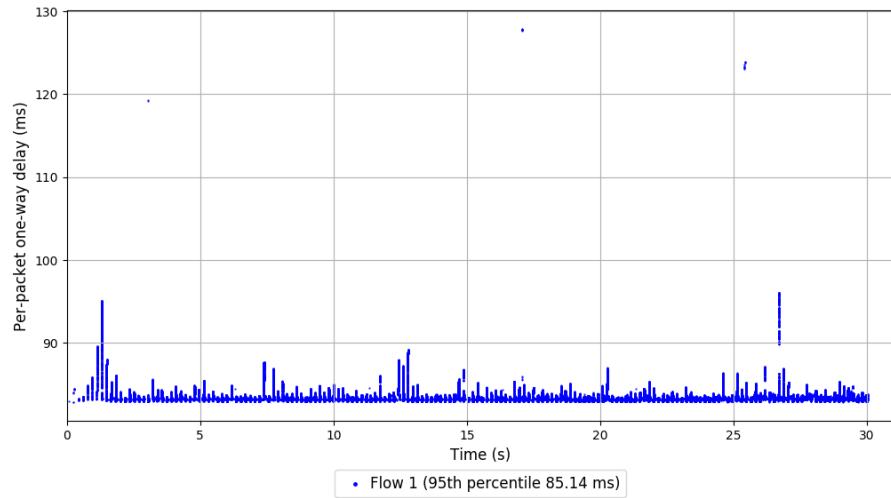
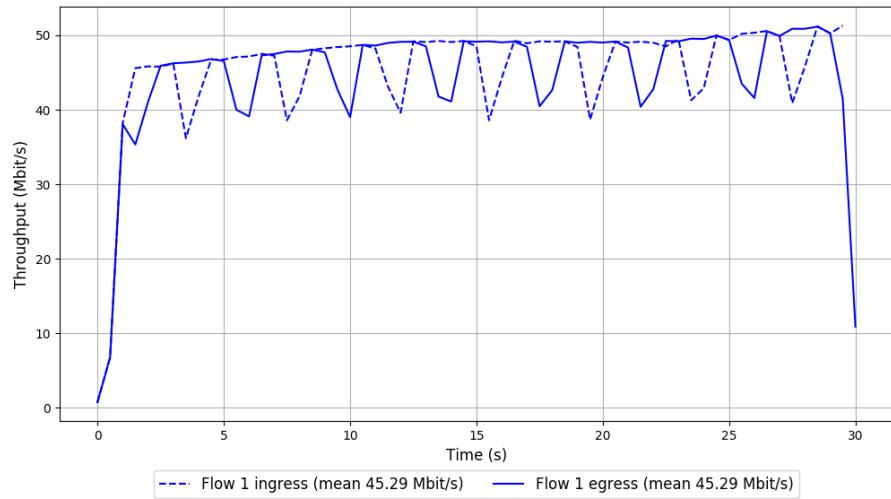
Run 1: Statistics of TCP Vegas

Start at: 2018-01-08 20:58:02

End at: 2018-01-08 20:58:32

```
# Below is generated by plot.py at 2018-01-09 00:05:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.29 Mbit/s
95th percentile per-packet one-way delay: 85.145 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 45.29 Mbit/s
95th percentile per-packet one-way delay: 85.145 ms
Loss rate: 0.00%
```

Run 1: Report of TCP Vegas — Data Link



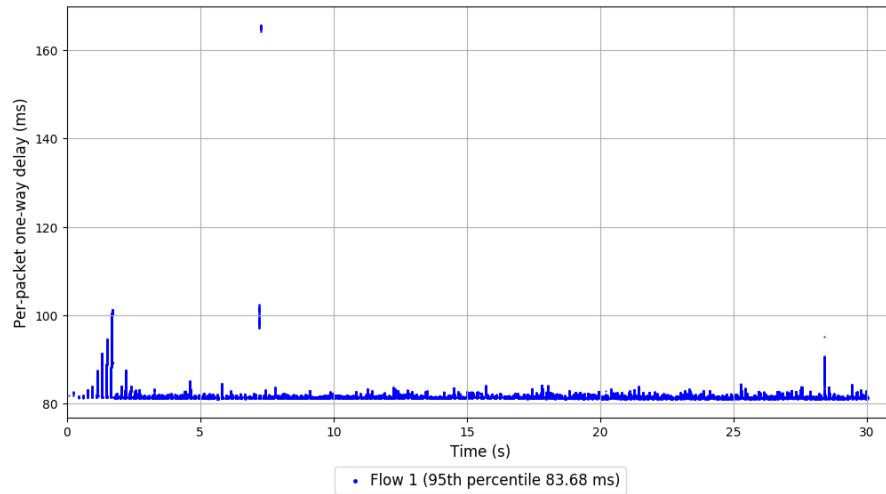
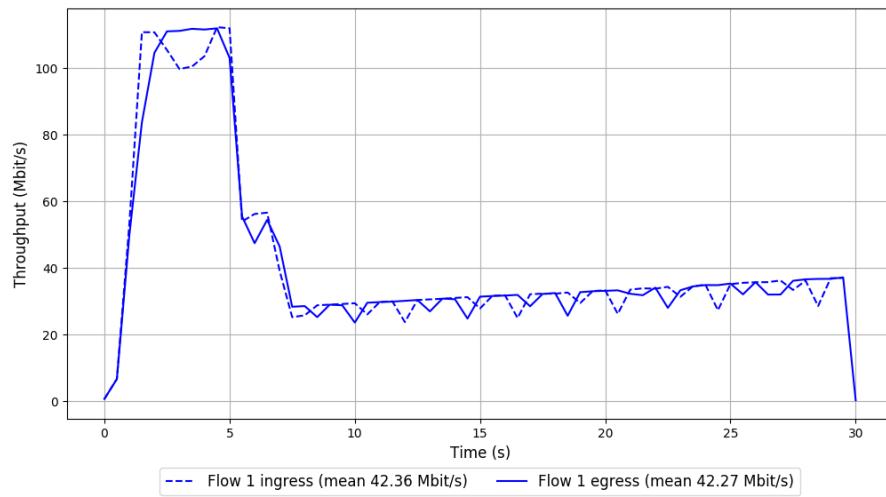
Run 2: Statistics of TCP Vegas

Start at: 2018-01-08 21:10:08

End at: 2018-01-08 21:10:38

```
# Below is generated by plot.py at 2018-01-09 00:05:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.27 Mbit/s
95th percentile per-packet one-way delay: 83.682 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 42.27 Mbit/s
95th percentile per-packet one-way delay: 83.682 ms
Loss rate: 0.22%
```

Run 2: Report of TCP Vegas — Data Link



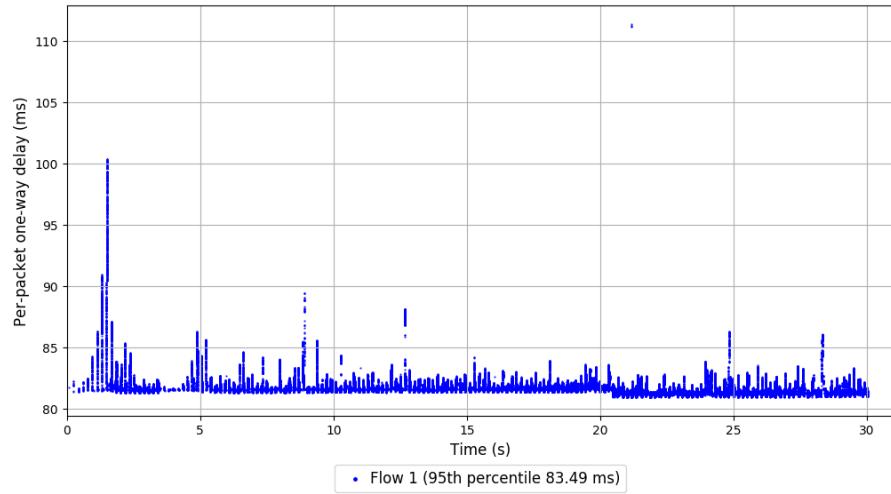
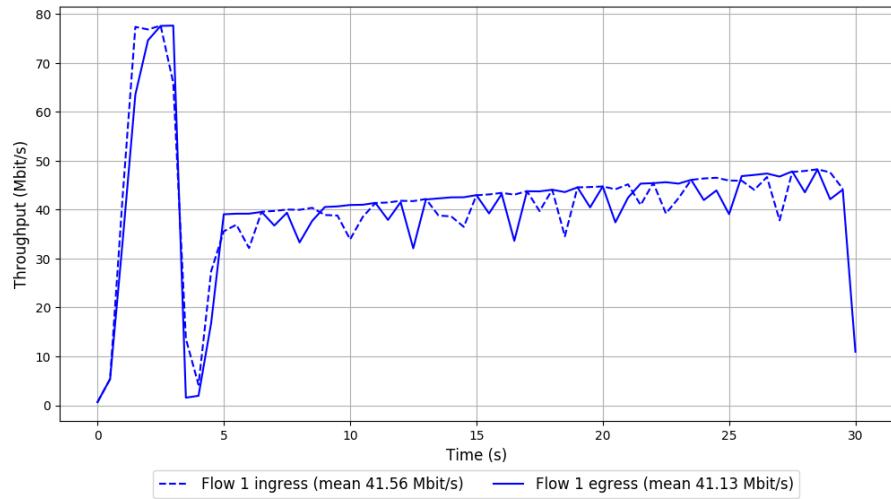
Run 3: Statistics of TCP Vegas

Start at: 2018-01-08 21:22:14

End at: 2018-01-08 21:22:44

```
# Below is generated by plot.py at 2018-01-09 00:05:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.13 Mbit/s
95th percentile per-packet one-way delay: 83.486 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 41.13 Mbit/s
95th percentile per-packet one-way delay: 83.486 ms
Loss rate: 1.02%
```

Run 3: Report of TCP Vegas — Data Link



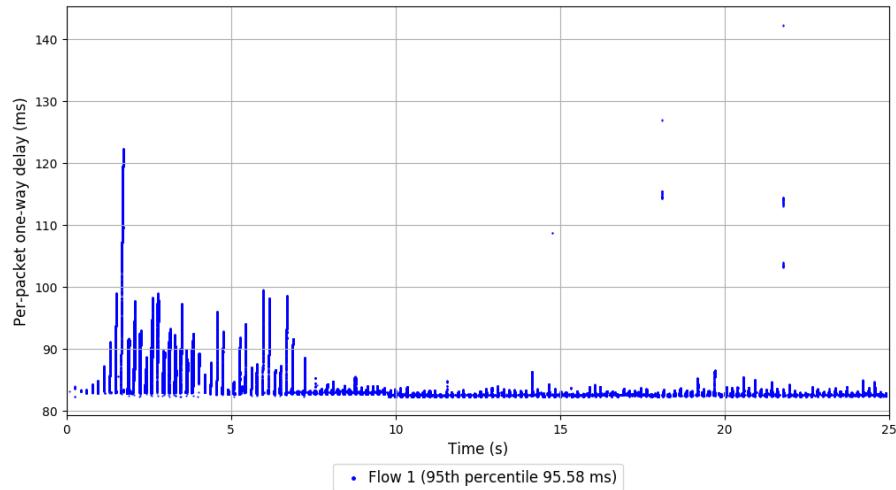
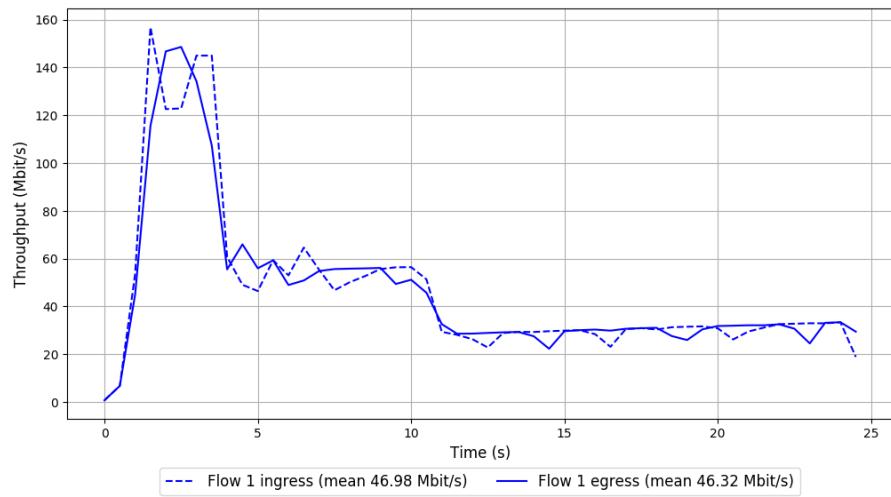
Run 4: Statistics of TCP Vegas

Start at: 2018-01-08 21:34:20

End at: 2018-01-08 21:34:50

```
# Below is generated by plot.py at 2018-01-09 00:05:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.32 Mbit/s
95th percentile per-packet one-way delay: 95.581 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 46.32 Mbit/s
95th percentile per-packet one-way delay: 95.581 ms
Loss rate: 1.40%
```

Run 4: Report of TCP Vegas — Data Link



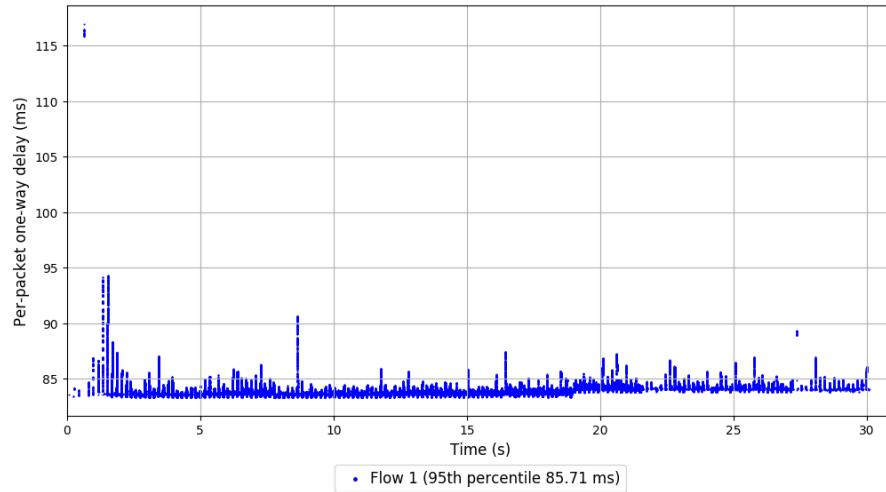
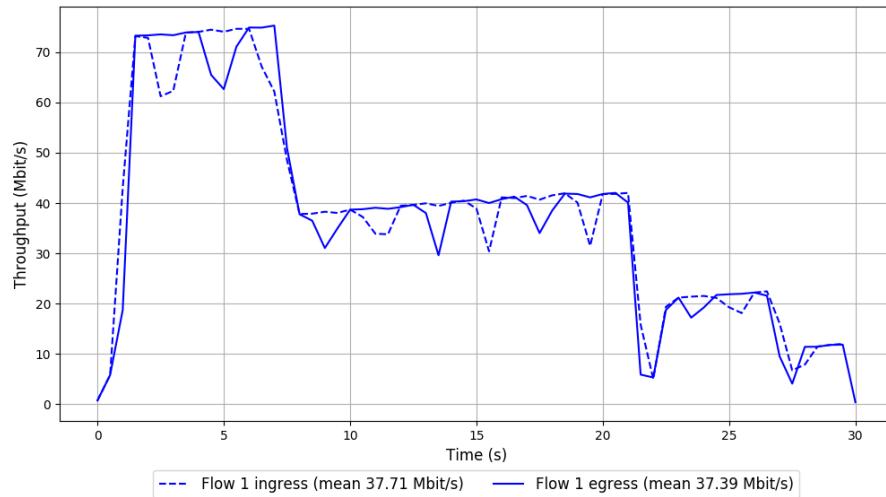
Run 5: Statistics of TCP Vegas

Start at: 2018-01-08 21:45:56

End at: 2018-01-08 21:46:26

```
# Below is generated by plot.py at 2018-01-09 00:05:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.39 Mbit/s
95th percentile per-packet one-way delay: 85.710 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 37.39 Mbit/s
95th percentile per-packet one-way delay: 85.710 ms
Loss rate: 0.86%
```

Run 5: Report of TCP Vegas — Data Link



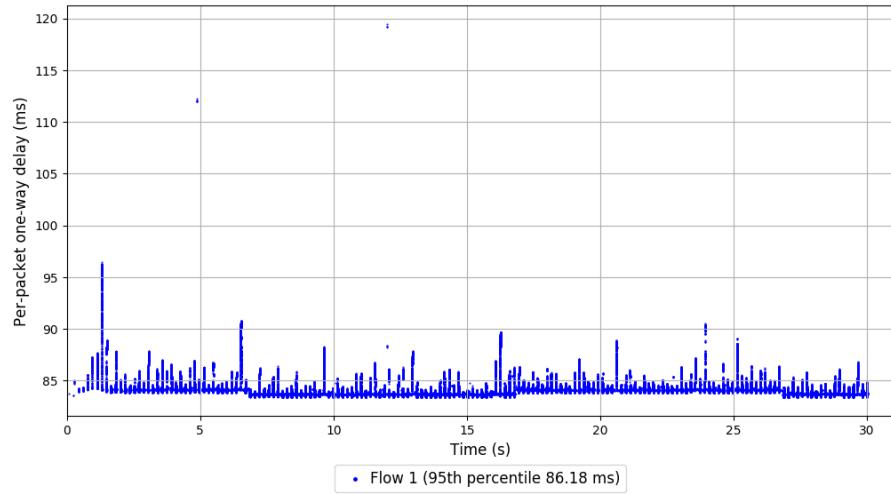
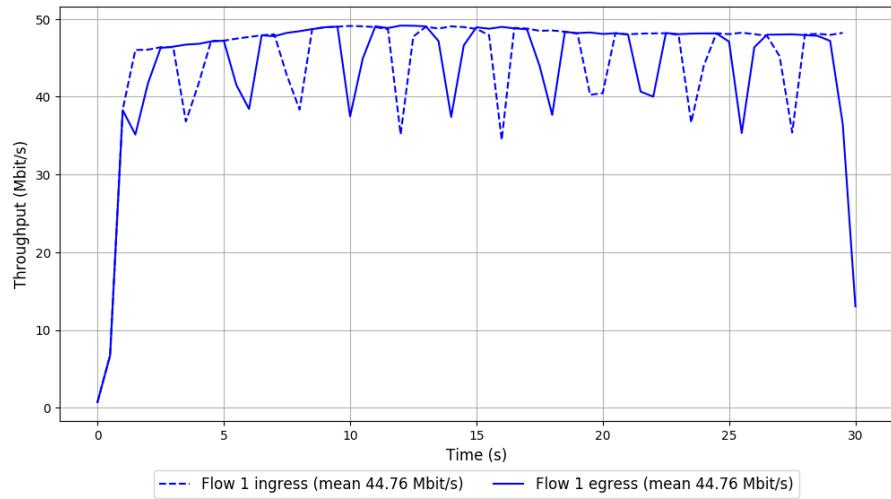
Run 6: Statistics of TCP Vegas

Start at: 2018-01-08 21:57:58

End at: 2018-01-08 21:58:28

```
# Below is generated by plot.py at 2018-01-09 00:05:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.76 Mbit/s
95th percentile per-packet one-way delay: 86.180 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.76 Mbit/s
95th percentile per-packet one-way delay: 86.180 ms
Loss rate: 0.00%
```

Run 6: Report of TCP Vegas — Data Link



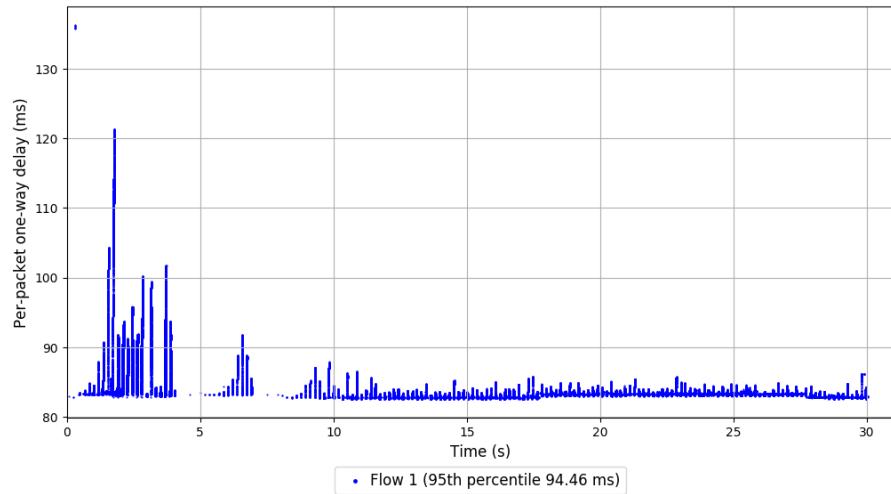
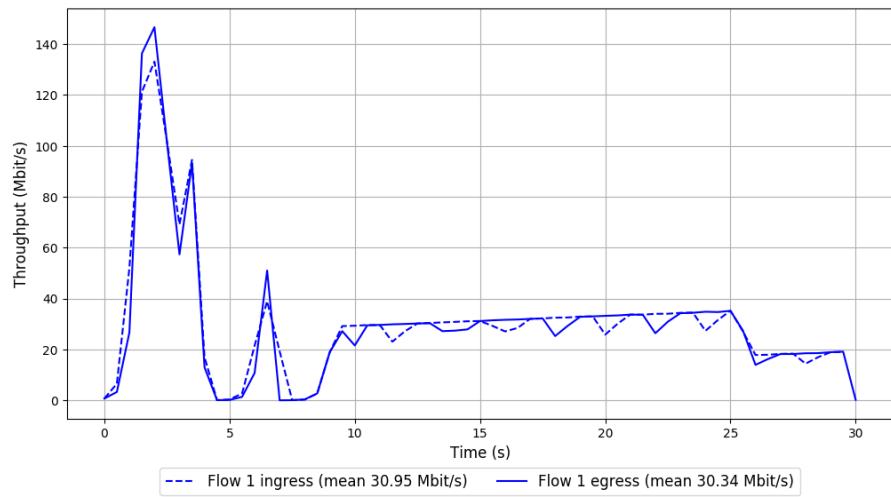
Run 7: Statistics of TCP Vegas

Start at: 2018-01-08 22:09:47

End at: 2018-01-08 22:10:17

```
# Below is generated by plot.py at 2018-01-09 00:05:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 30.34 Mbit/s
95th percentile per-packet one-way delay: 94.464 ms
Loss rate: 1.97%
-- Flow 1:
Average throughput: 30.34 Mbit/s
95th percentile per-packet one-way delay: 94.464 ms
Loss rate: 1.97%
```

Run 7: Report of TCP Vegas — Data Link

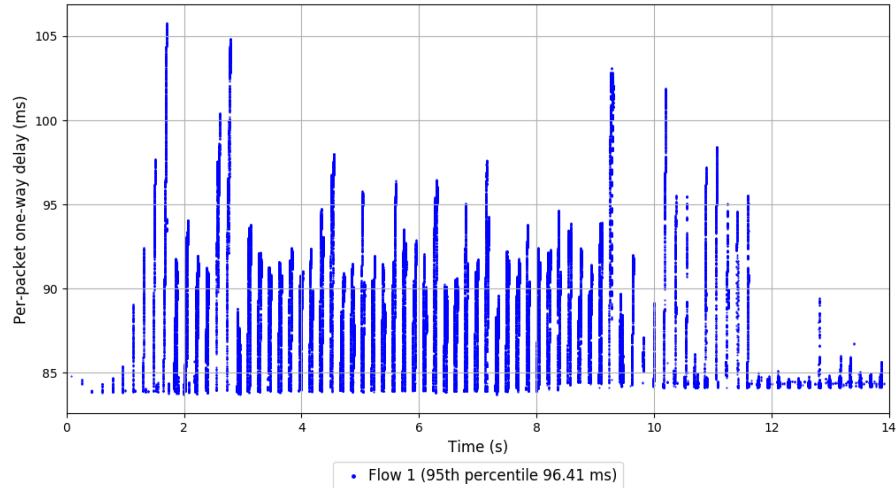
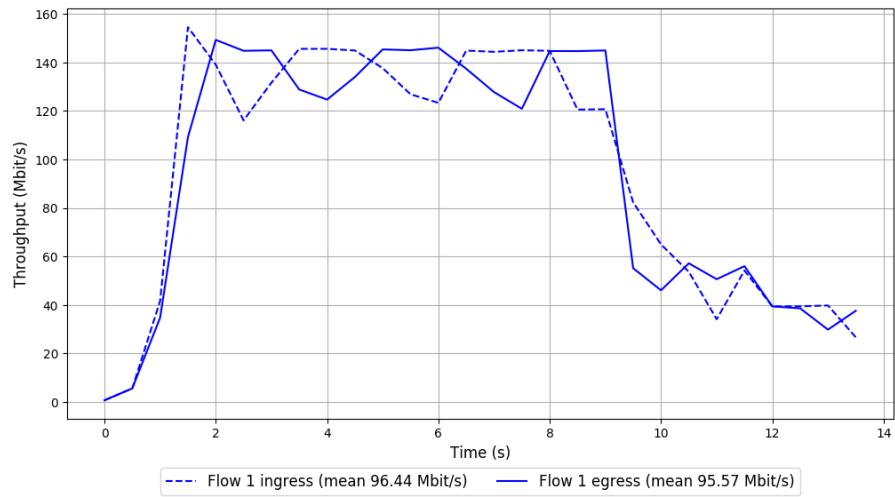


Run 8: Statistics of TCP Vegas

Start at: 2018-01-08 22:22:00

End at: 2018-01-08 22:22:30

Run 8: Report of TCP Vegas — Data Link



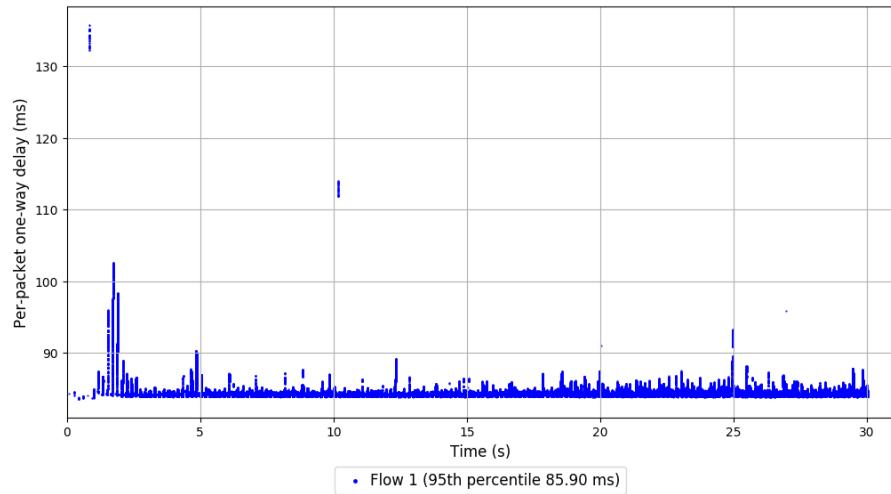
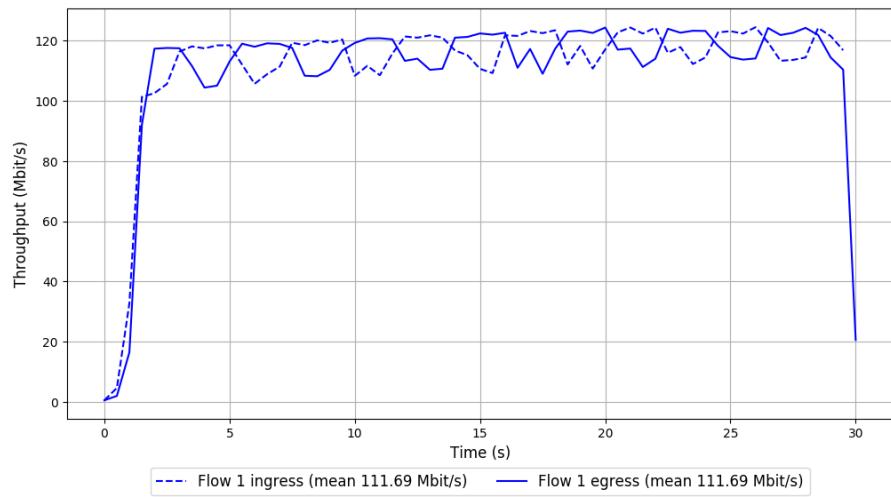
Run 9: Statistics of TCP Vegas

Start at: 2018-01-08 22:34:14

End at: 2018-01-08 22:34:44

```
# Below is generated by plot.py at 2018-01-09 00:05:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 111.69 Mbit/s
95th percentile per-packet one-way delay: 85.903 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 111.69 Mbit/s
95th percentile per-packet one-way delay: 85.903 ms
Loss rate: 0.00%
```

Run 9: Report of TCP Vegas — Data Link



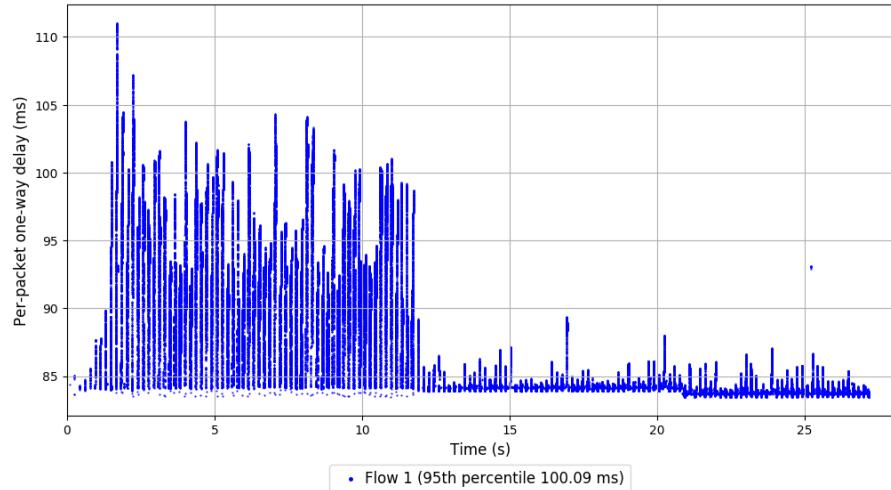
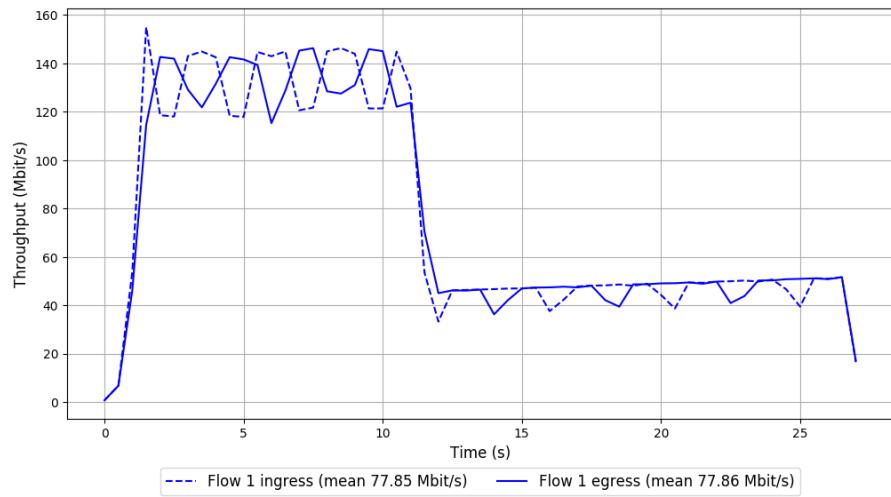
Run 10: Statistics of TCP Vegas

Start at: 2018-01-08 22:46:11

End at: 2018-01-08 22:46:41

```
# Below is generated by plot.py at 2018-01-09 00:05:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.86 Mbit/s
95th percentile per-packet one-way delay: 100.089 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 77.86 Mbit/s
95th percentile per-packet one-way delay: 100.089 ms
Loss rate: 0.00%
```

Run 10: Report of TCP Vegas — Data Link



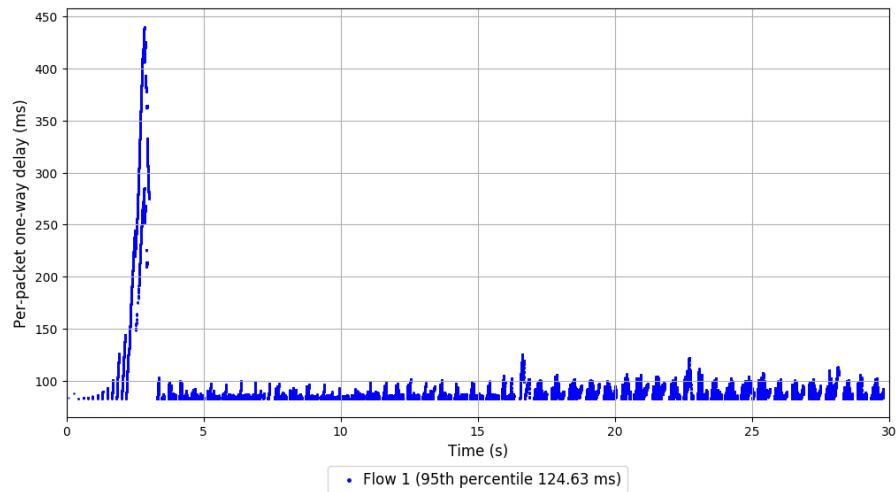
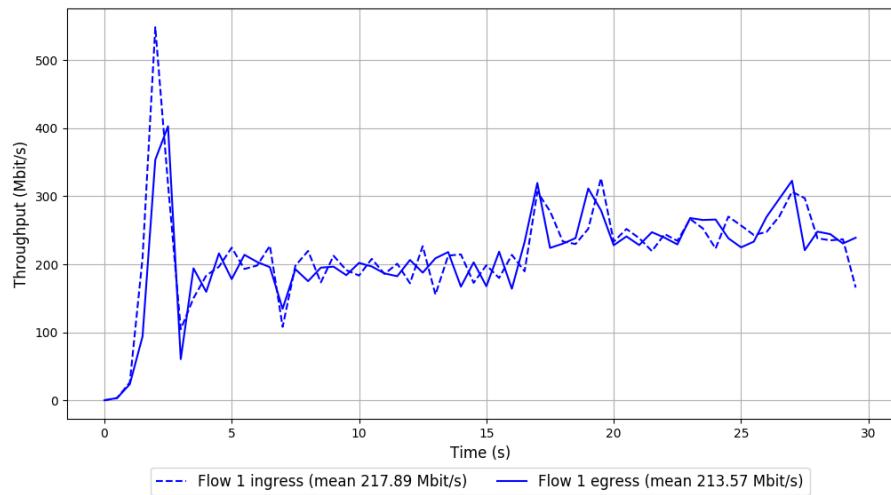
Run 1: Statistics of Verus

Start at: 2018-01-08 21:00:04

End at: 2018-01-08 21:00:34

```
# Below is generated by plot.py at 2018-01-09 00:05:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.57 Mbit/s
95th percentile per-packet one-way delay: 124.626 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 213.57 Mbit/s
95th percentile per-packet one-way delay: 124.626 ms
Loss rate: 1.98%
```

Run 1: Report of Verus — Data Link



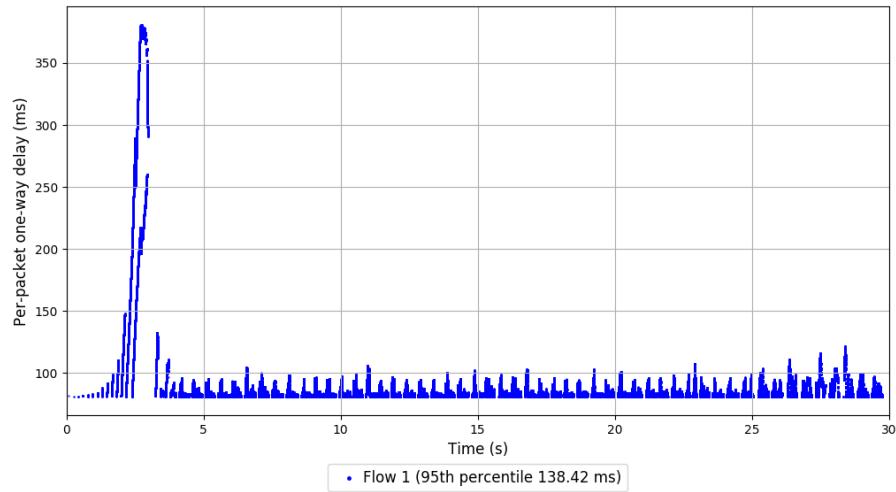
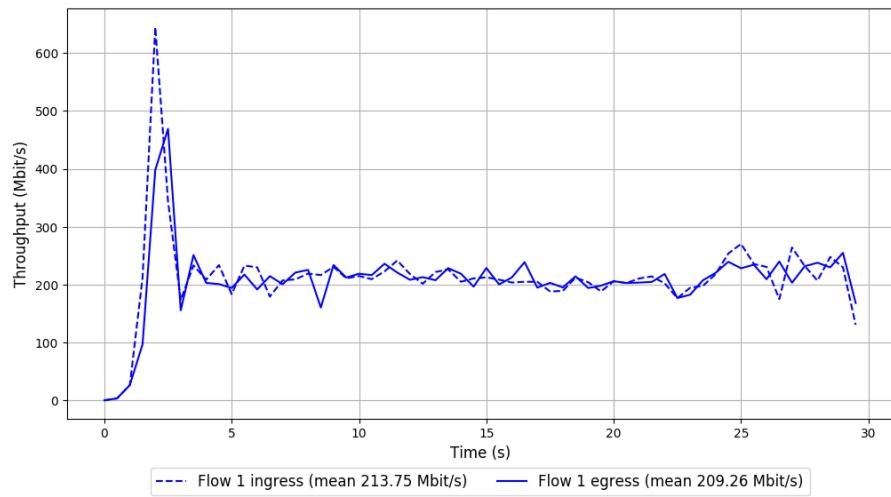
Run 2: Statistics of Verus

Start at: 2018-01-08 21:12:12

End at: 2018-01-08 21:12:42

```
# Below is generated by plot.py at 2018-01-09 00:05:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 209.26 Mbit/s
95th percentile per-packet one-way delay: 138.420 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 209.26 Mbit/s
95th percentile per-packet one-way delay: 138.420 ms
Loss rate: 2.10%
```

Run 2: Report of Verus — Data Link



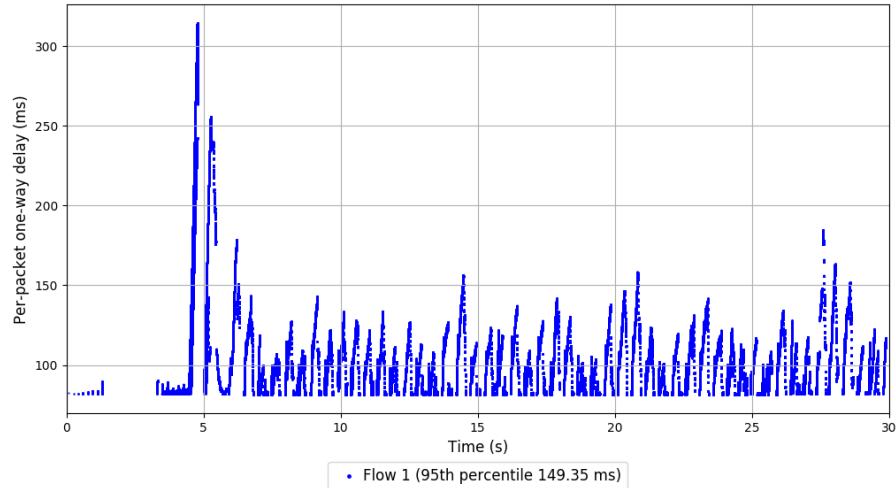
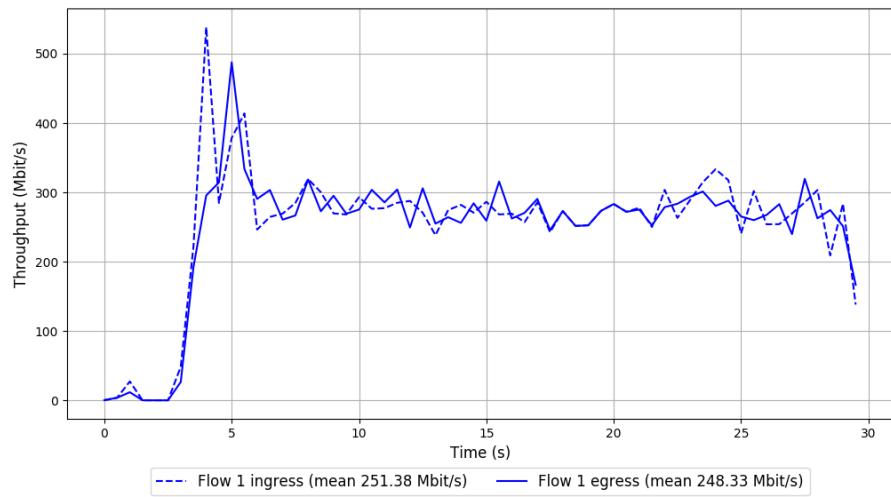
Run 3: Statistics of Verus

Start at: 2018-01-08 21:24:18

End at: 2018-01-08 21:24:49

```
# Below is generated by plot.py at 2018-01-09 00:05:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 248.33 Mbit/s
95th percentile per-packet one-way delay: 149.352 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 248.33 Mbit/s
95th percentile per-packet one-way delay: 149.352 ms
Loss rate: 1.21%
```

Run 3: Report of Verus — Data Link



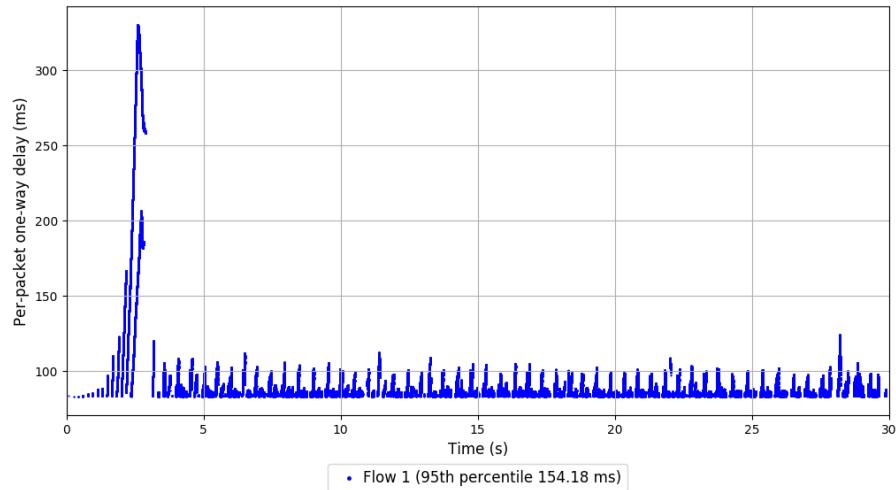
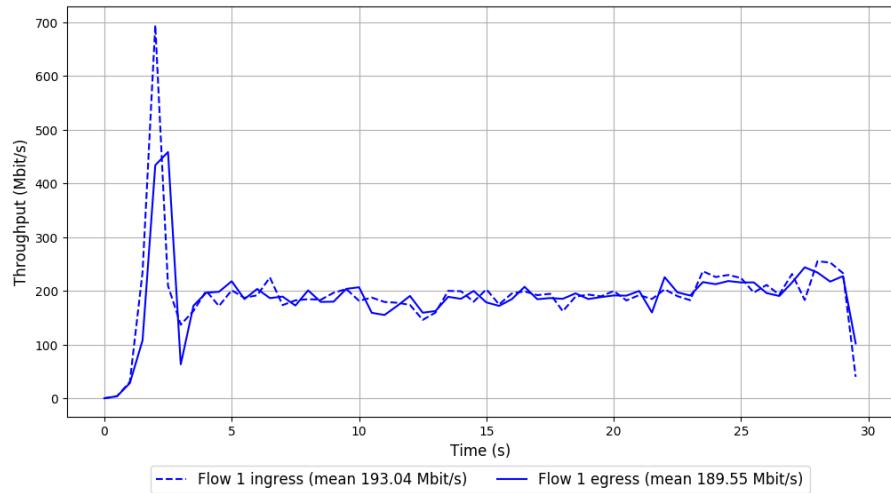
Run 4: Statistics of Verus

Start at: 2018-01-08 21:36:24

End at: 2018-01-08 21:36:54

```
# Below is generated by plot.py at 2018-01-09 00:05:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 189.55 Mbit/s
95th percentile per-packet one-way delay: 154.184 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 189.55 Mbit/s
95th percentile per-packet one-way delay: 154.184 ms
Loss rate: 1.81%
```

Run 4: Report of Verus — Data Link



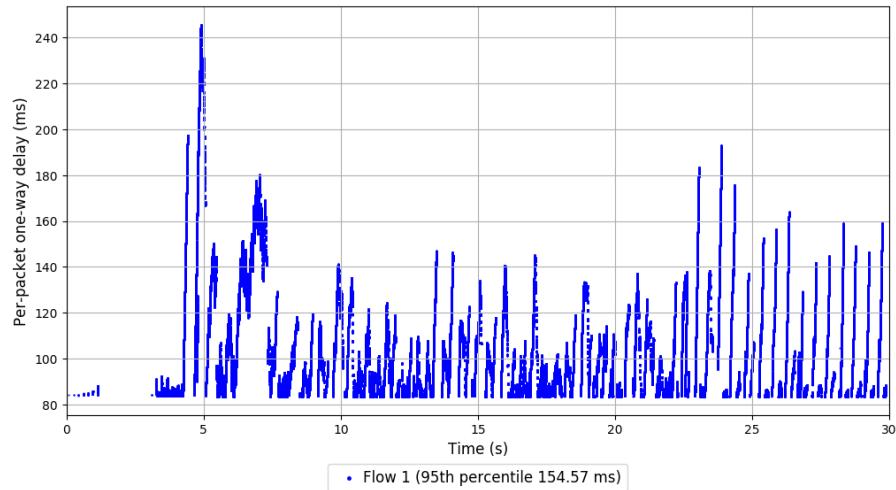
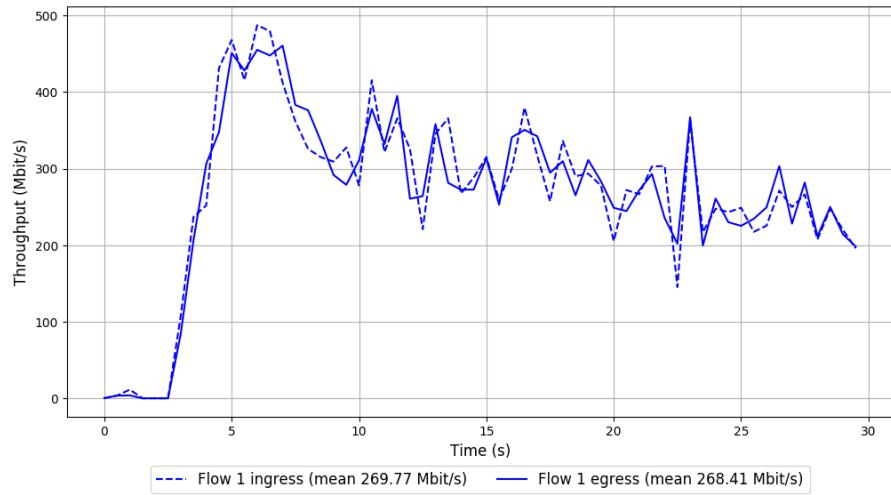
Run 5: Statistics of Verus

Start at: 2018-01-08 21:48:00

End at: 2018-01-08 21:48:30

```
# Below is generated by plot.py at 2018-01-09 00:07:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 268.41 Mbit/s
95th percentile per-packet one-way delay: 154.575 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 268.41 Mbit/s
95th percentile per-packet one-way delay: 154.575 ms
Loss rate: 0.50%
```

Run 5: Report of Verus — Data Link



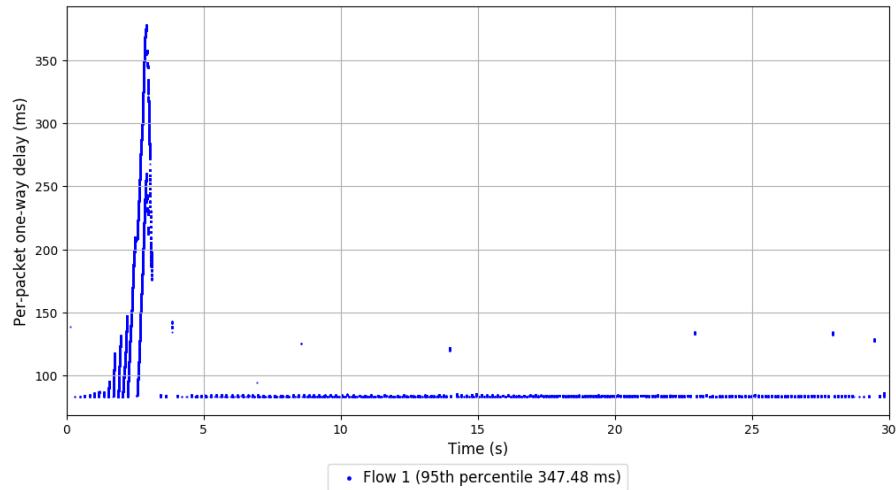
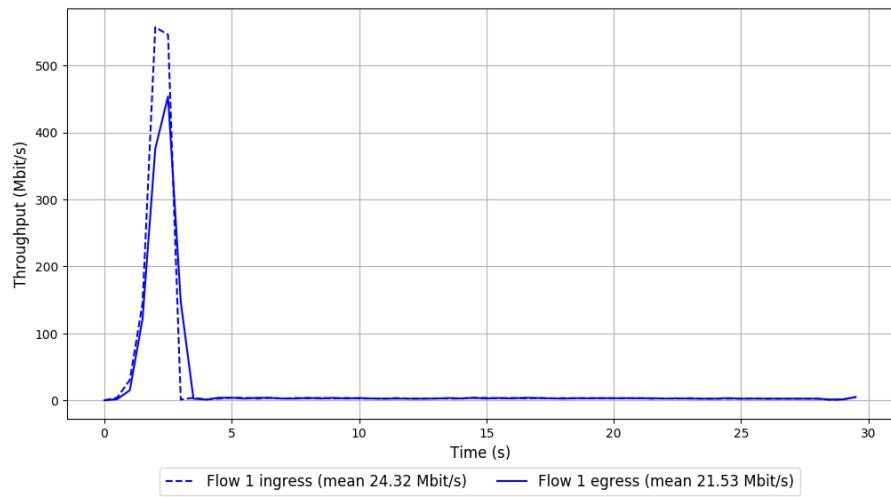
Run 6: Statistics of Verus

Start at: 2018-01-08 22:00:02

End at: 2018-01-08 22:00:32

```
# Below is generated by plot.py at 2018-01-09 00:07:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 21.53 Mbit/s
95th percentile per-packet one-way delay: 347.475 ms
Loss rate: 11.63%
-- Flow 1:
Average throughput: 21.53 Mbit/s
95th percentile per-packet one-way delay: 347.475 ms
Loss rate: 11.63%
```

Run 6: Report of Verus — Data Link



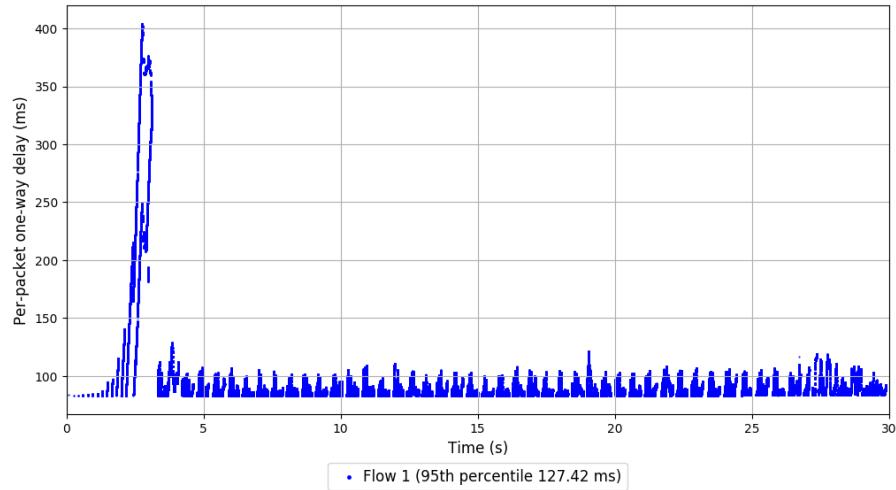
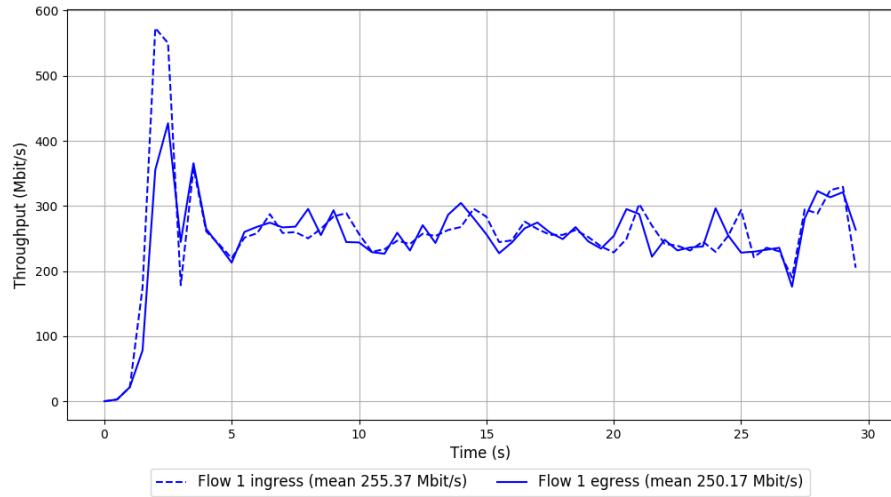
Run 7: Statistics of Verus

Start at: 2018-01-08 22:11:50

End at: 2018-01-08 22:12:20

```
# Below is generated by plot.py at 2018-01-09 00:07:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 250.17 Mbit/s
95th percentile per-packet one-way delay: 127.420 ms
Loss rate: 2.03%
-- Flow 1:
Average throughput: 250.17 Mbit/s
95th percentile per-packet one-way delay: 127.420 ms
Loss rate: 2.03%
```

Run 7: Report of Verus — Data Link



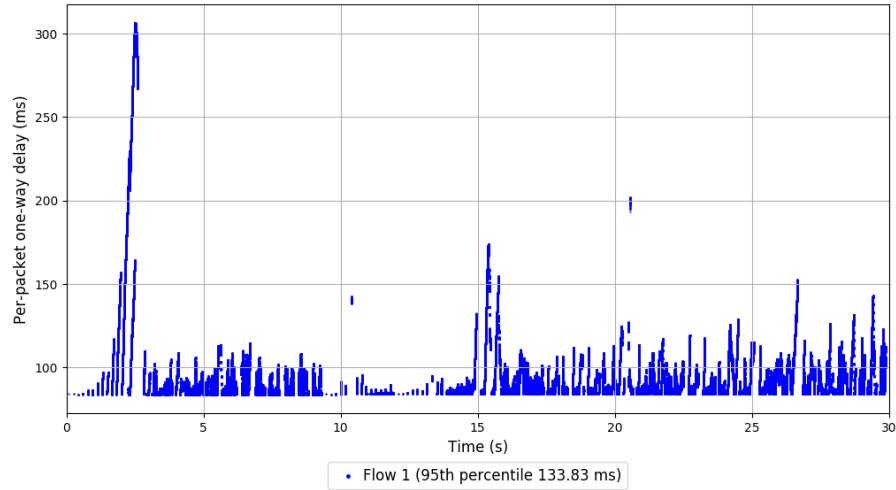
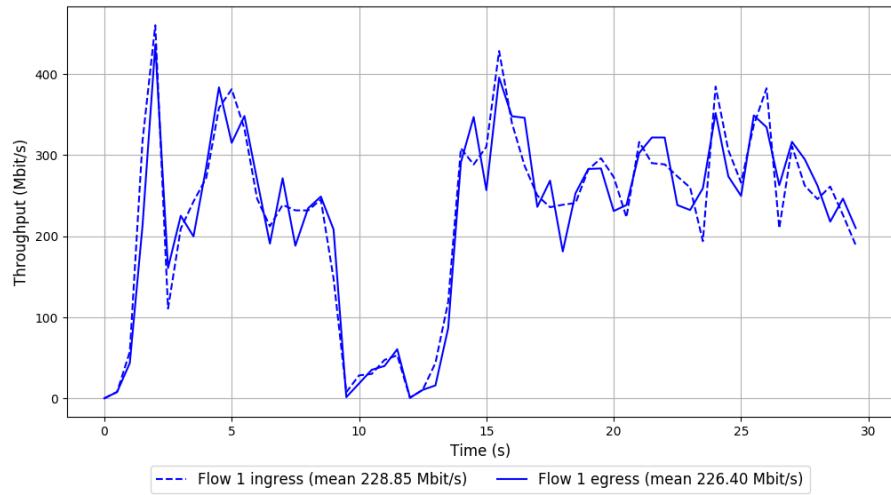
Run 8: Statistics of Verus

Start at: 2018-01-08 22:24:05

End at: 2018-01-08 22:24:35

```
# Below is generated by plot.py at 2018-01-09 00:07:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.40 Mbit/s
95th percentile per-packet one-way delay: 133.833 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 226.40 Mbit/s
95th percentile per-packet one-way delay: 133.833 ms
Loss rate: 1.07%
```

Run 8: Report of Verus — Data Link



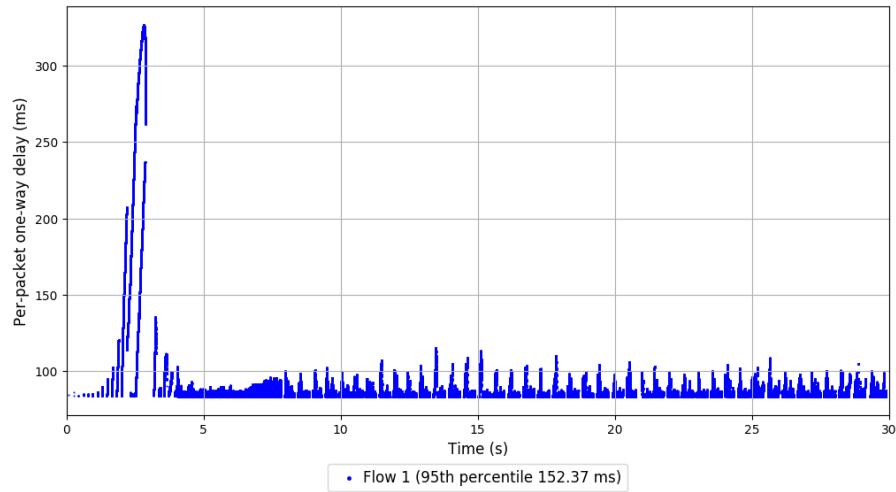
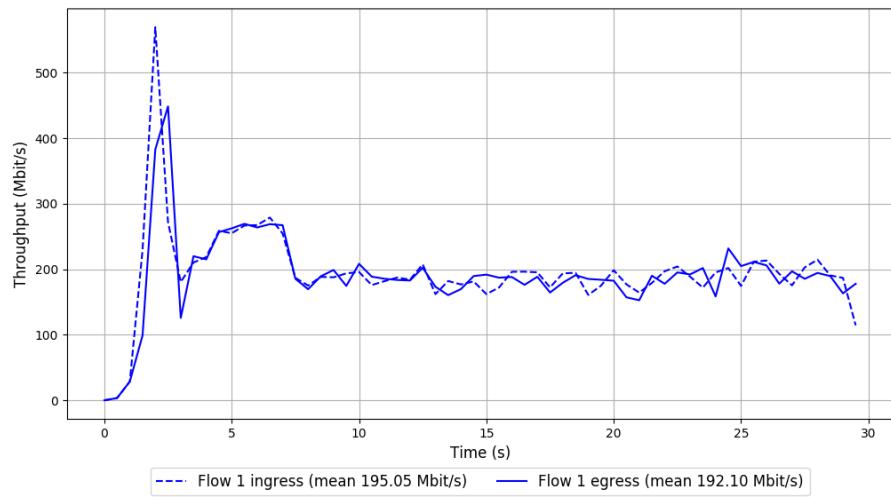
Run 9: Statistics of Verus

Start at: 2018-01-08 22:36:21

End at: 2018-01-08 22:36:51

```
# Below is generated by plot.py at 2018-01-09 00:07:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 192.10 Mbit/s
95th percentile per-packet one-way delay: 152.369 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 192.10 Mbit/s
95th percentile per-packet one-way delay: 152.369 ms
Loss rate: 1.51%
```

Run 9: Report of Verus — Data Link



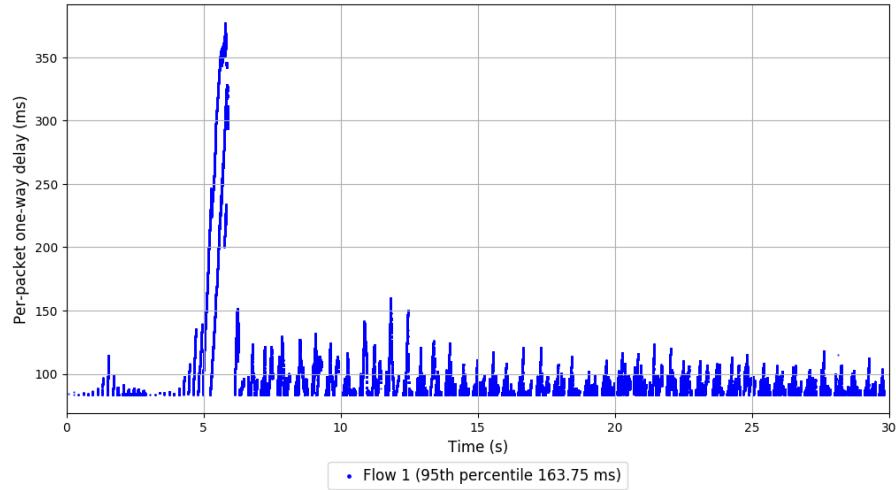
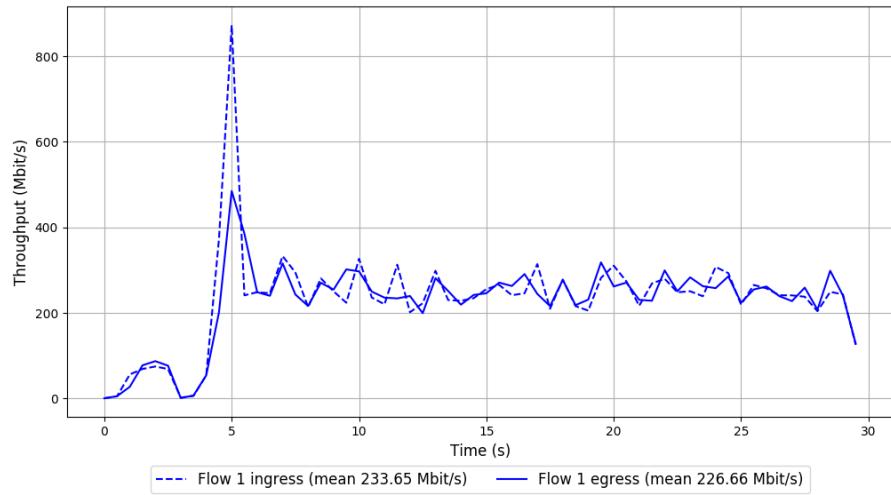
Run 10: Statistics of Verus

Start at: 2018-01-08 22:48:14

End at: 2018-01-08 22:48:44

```
# Below is generated by plot.py at 2018-01-09 00:08:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.66 Mbit/s
95th percentile per-packet one-way delay: 163.753 ms
Loss rate: 2.98%
-- Flow 1:
Average throughput: 226.66 Mbit/s
95th percentile per-packet one-way delay: 163.753 ms
Loss rate: 2.98%
```

Run 10: Report of Verus — Data Link



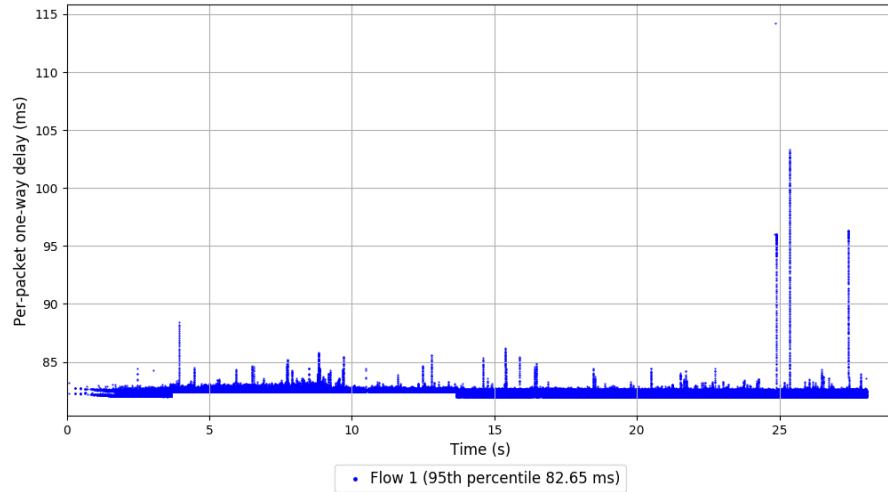
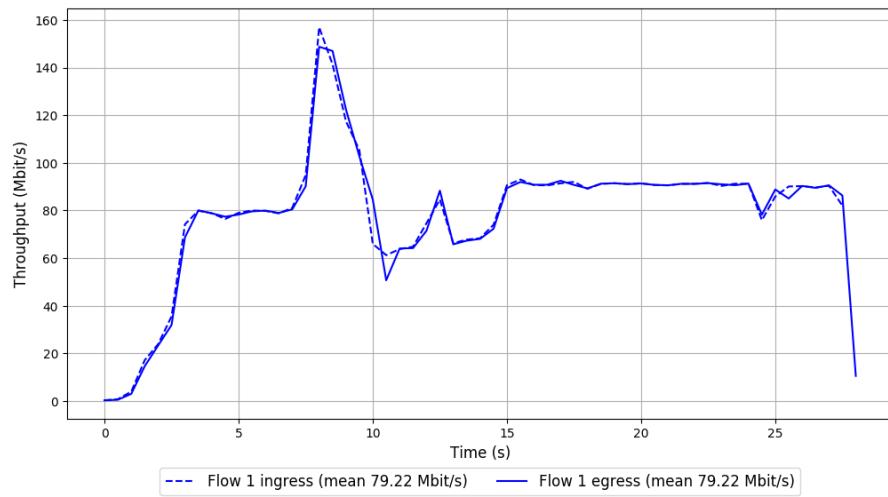
Run 1: Statistics of Copa

Start at: 2018-01-08 21:02:19

End at: 2018-01-08 21:02:49

```
# Below is generated by plot.py at 2018-01-09 00:08:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.22 Mbit/s
95th percentile per-packet one-way delay: 82.648 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 79.22 Mbit/s
95th percentile per-packet one-way delay: 82.648 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



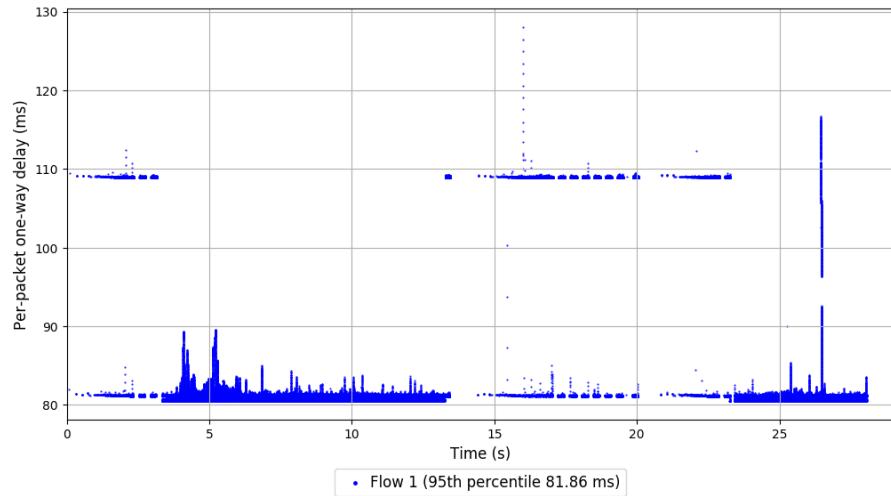
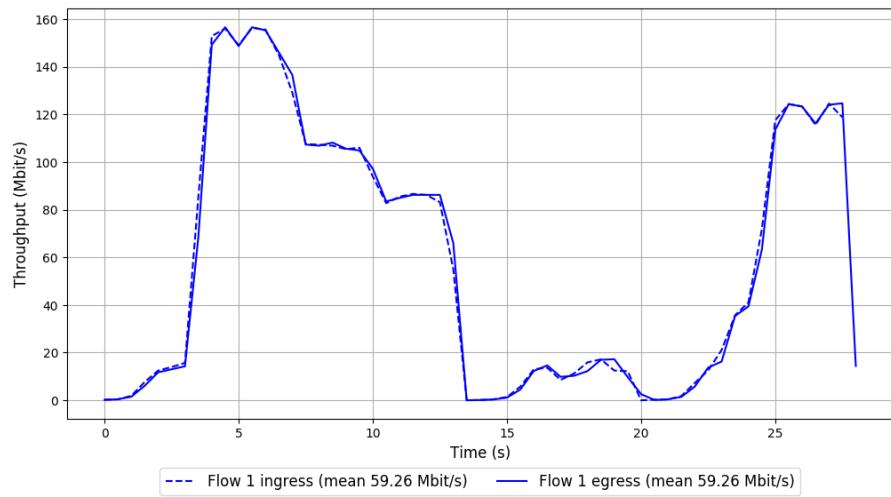
Run 2: Statistics of Copa

Start at: 2018-01-08 21:14:29

End at: 2018-01-08 21:14:59

```
# Below is generated by plot.py at 2018-01-09 00:08:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.26 Mbit/s
95th percentile per-packet one-way delay: 81.862 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.26 Mbit/s
95th percentile per-packet one-way delay: 81.862 ms
Loss rate: 0.00%
```

Run 2: Report of Copa — Data Link



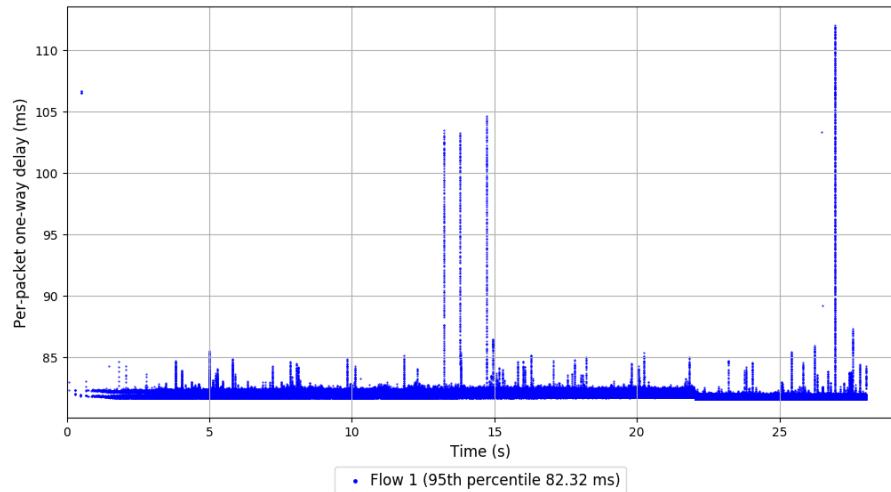
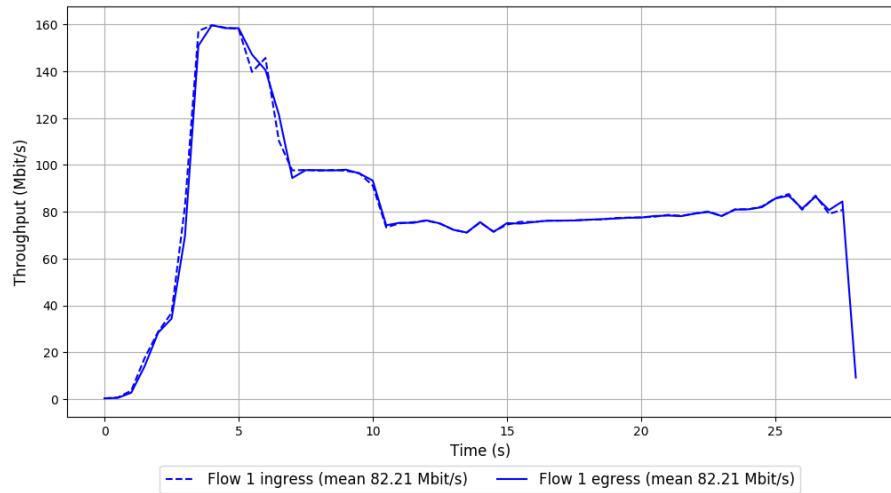
Run 3: Statistics of Copa

Start at: 2018-01-08 21:26:31

End at: 2018-01-08 21:27:01

```
# Below is generated by plot.py at 2018-01-09 00:08:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.21 Mbit/s
95th percentile per-packet one-way delay: 82.323 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 82.21 Mbit/s
95th percentile per-packet one-way delay: 82.323 ms
Loss rate: 0.00%
```

Run 3: Report of Copa — Data Link



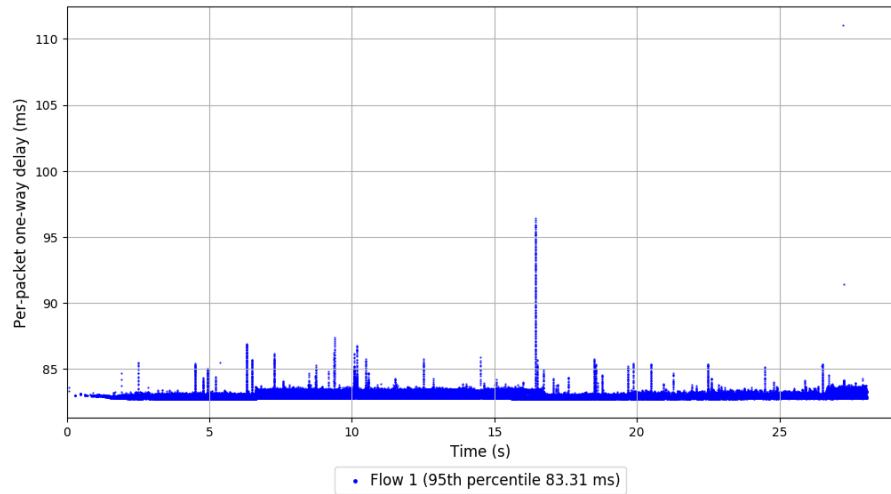
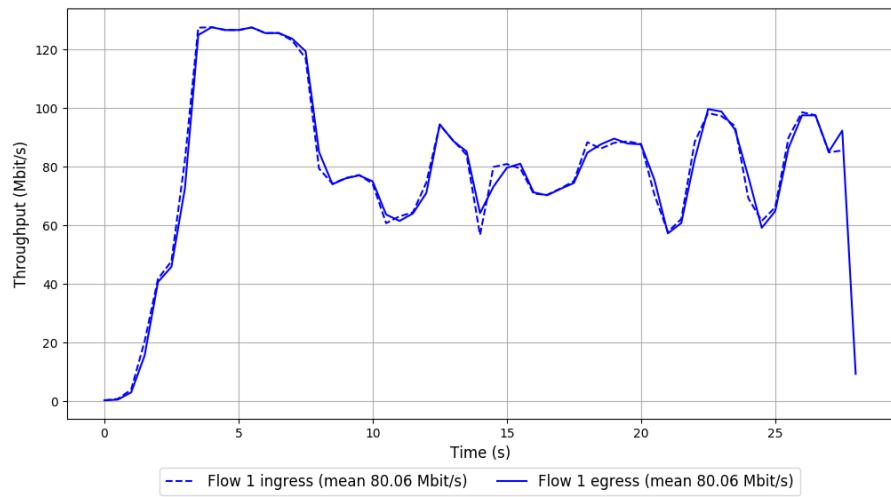
Run 4: Statistics of Copa

Start at: 2018-01-08 21:38:06

End at: 2018-01-08 21:38:36

```
# Below is generated by plot.py at 2018-01-09 00:08:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.06 Mbit/s
95th percentile per-packet one-way delay: 83.305 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 80.06 Mbit/s
95th percentile per-packet one-way delay: 83.305 ms
Loss rate: 0.00%
```

Run 4: Report of Copa — Data Link



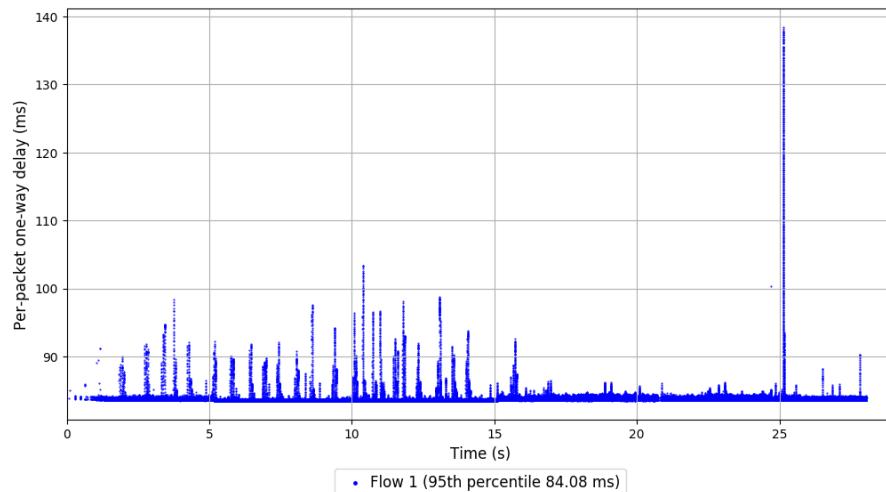
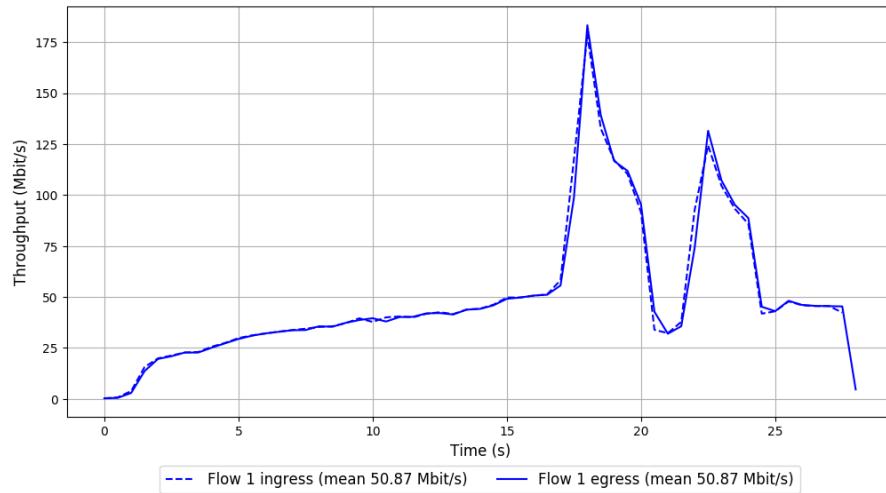
Run 5: Statistics of Copa

Start at: 2018-01-08 21:50:18

End at: 2018-01-08 21:50:48

```
# Below is generated by plot.py at 2018-01-09 00:08:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.87 Mbit/s
95th percentile per-packet one-way delay: 84.076 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.87 Mbit/s
95th percentile per-packet one-way delay: 84.076 ms
Loss rate: 0.00%
```

Run 5: Report of Copa — Data Link

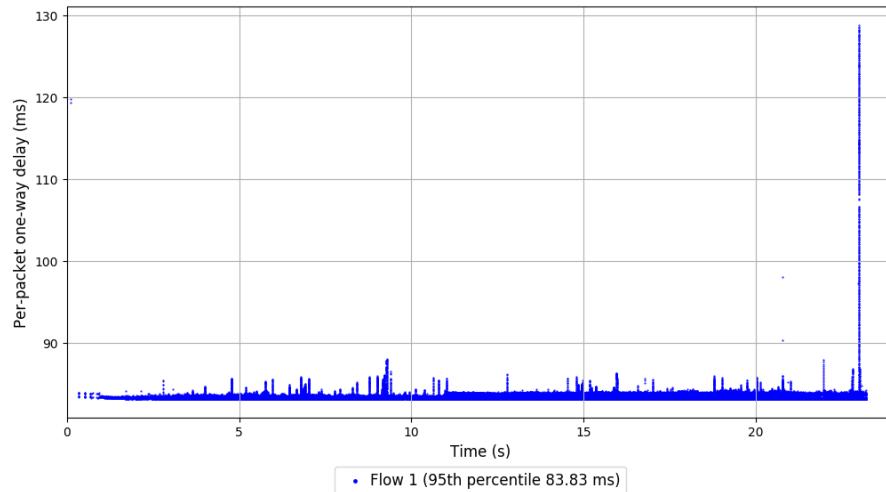
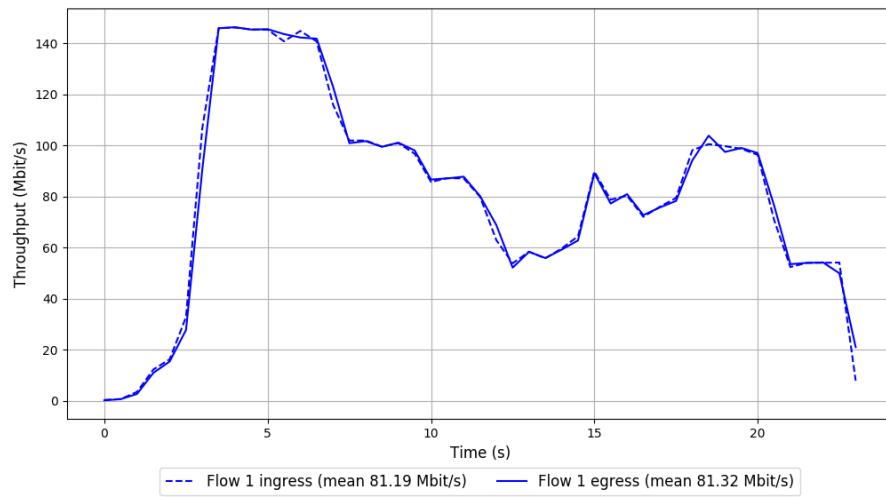


Run 6: Statistics of Copa

Start at: 2018-01-08 22:01:57

End at: 2018-01-08 22:02:27

Run 6: Report of Copa — Data Link



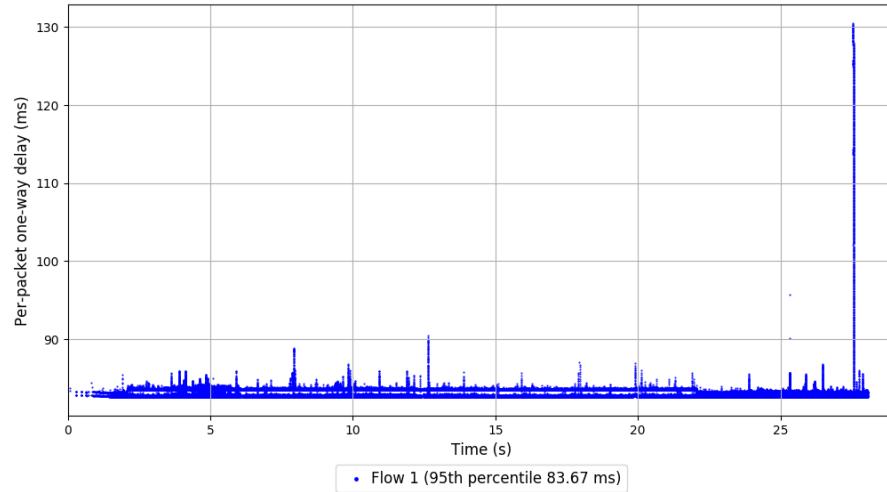
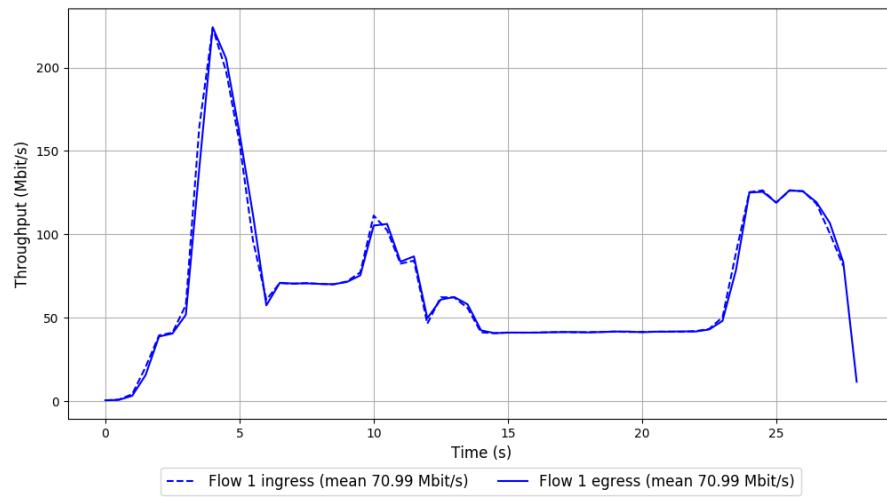
Run 7: Statistics of Copa

Start at: 2018-01-08 22:14:11

End at: 2018-01-08 22:14:41

```
# Below is generated by plot.py at 2018-01-09 00:09:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.99 Mbit/s
95th percentile per-packet one-way delay: 83.674 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 70.99 Mbit/s
95th percentile per-packet one-way delay: 83.674 ms
Loss rate: 0.00%
```

Run 7: Report of Copa — Data Link



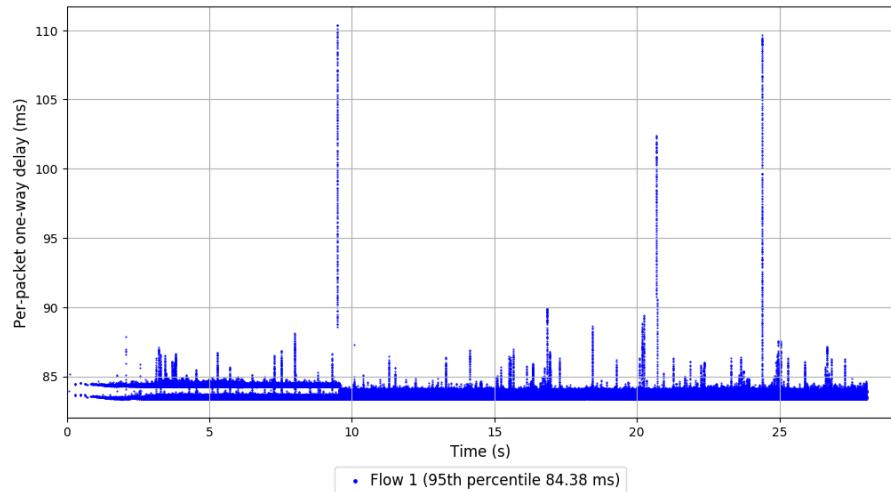
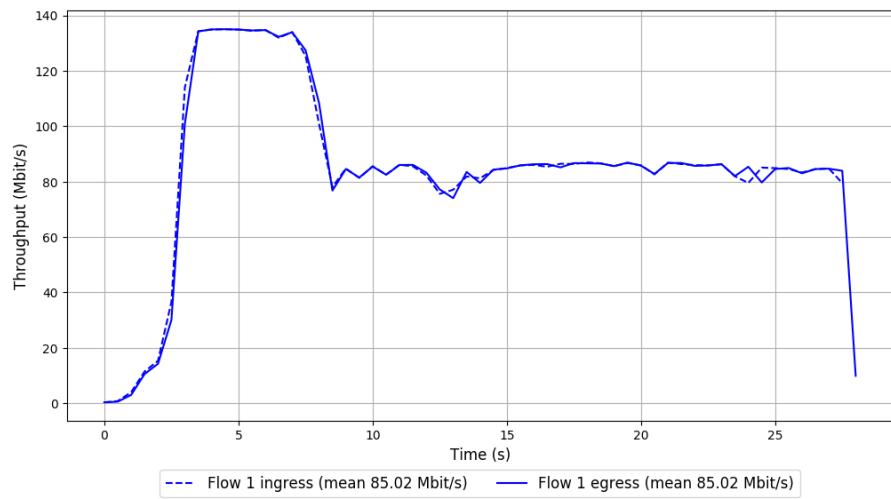
Run 8: Statistics of Copa

Start at: 2018-01-08 22:26:23

End at: 2018-01-08 22:26:53

```
# Below is generated by plot.py at 2018-01-09 00:09:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.02 Mbit/s
95th percentile per-packet one-way delay: 84.380 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.02 Mbit/s
95th percentile per-packet one-way delay: 84.380 ms
Loss rate: 0.00%
```

Run 8: Report of Copa — Data Link



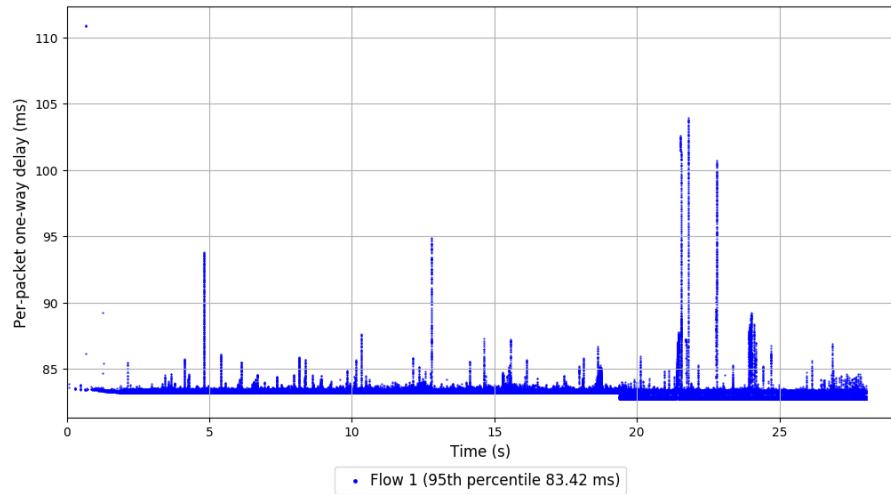
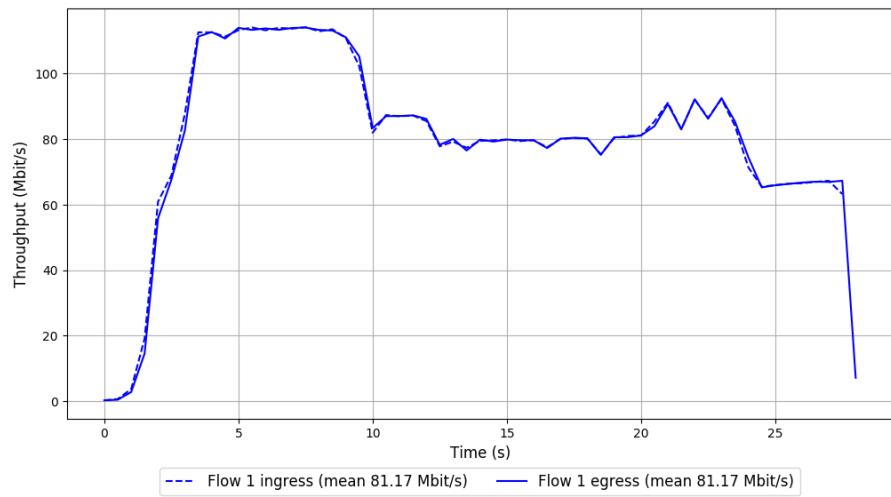
Run 9: Statistics of Copa

Start at: 2018-01-08 22:38:23

End at: 2018-01-08 22:38:53

```
# Below is generated by plot.py at 2018-01-09 00:09:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.17 Mbit/s
95th percentile per-packet one-way delay: 83.416 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 81.17 Mbit/s
95th percentile per-packet one-way delay: 83.416 ms
Loss rate: 0.00%
```

Run 9: Report of Copa — Data Link



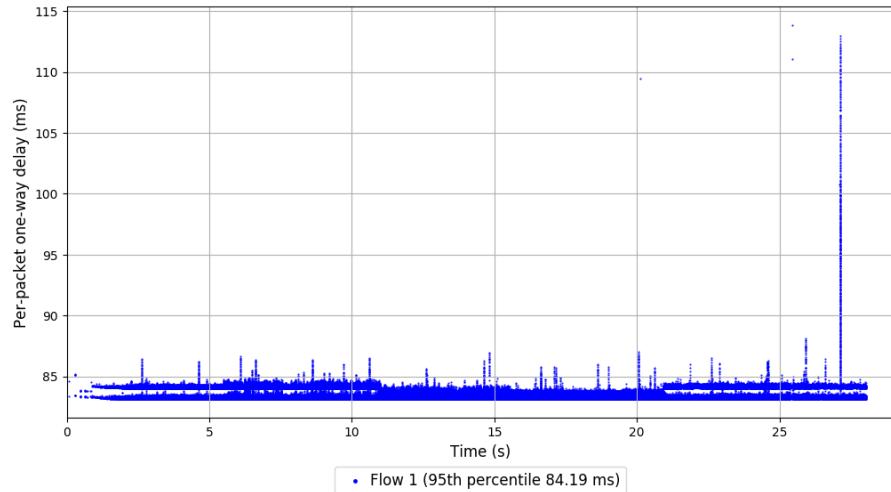
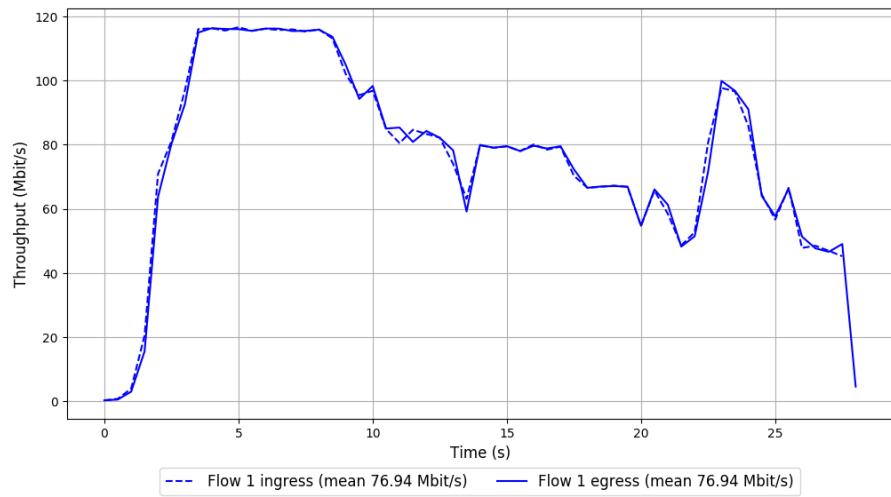
Run 10: Statistics of Copa

Start at: 2018-01-08 22:50:32

End at: 2018-01-08 22:51:02

```
# Below is generated by plot.py at 2018-01-09 00:09:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.94 Mbit/s
95th percentile per-packet one-way delay: 84.190 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 76.94 Mbit/s
95th percentile per-packet one-way delay: 84.190 ms
Loss rate: 0.00%
```

Run 10: Report of Copa — Data Link



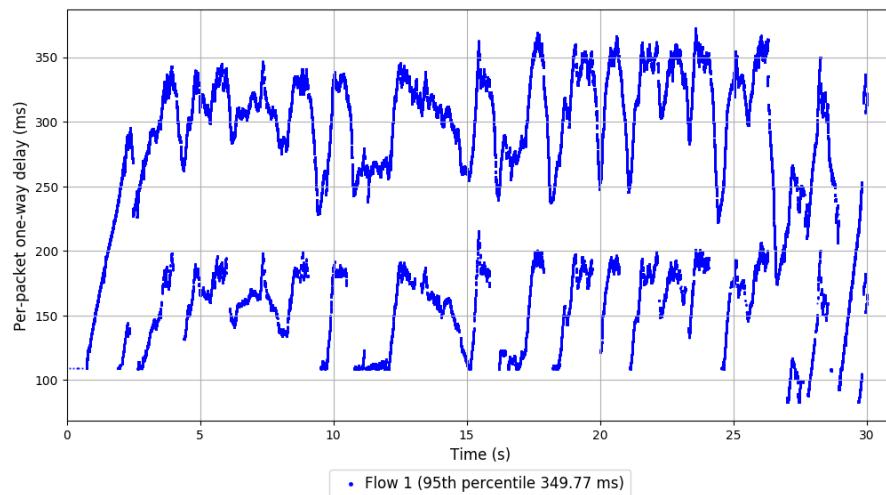
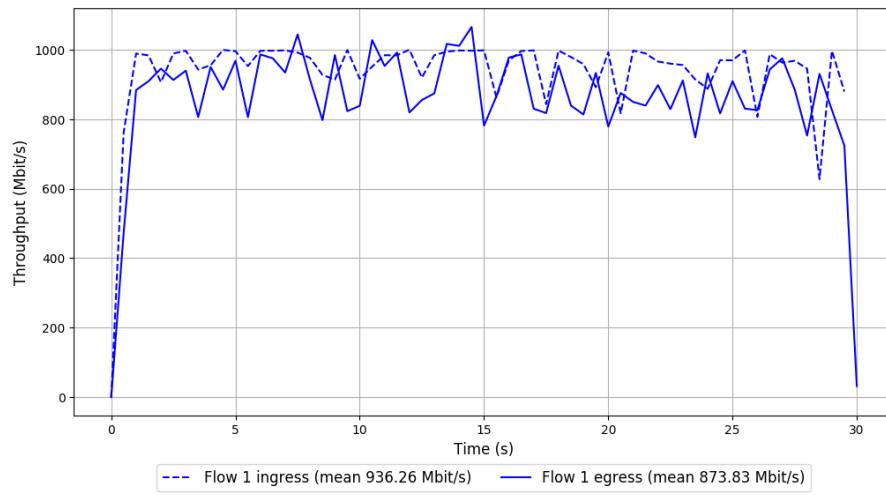
Run 1: Statistics of FillP

Start at: 2018-01-08 21:00:59

End at: 2018-01-08 21:01:29

```
# Below is generated by plot.py at 2018-01-09 00:23:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 873.83 Mbit/s
95th percentile per-packet one-way delay: 349.773 ms
Loss rate: 6.75%
-- Flow 1:
Average throughput: 873.83 Mbit/s
95th percentile per-packet one-way delay: 349.773 ms
Loss rate: 6.75%
```

Run 1: Report of FillP — Data Link



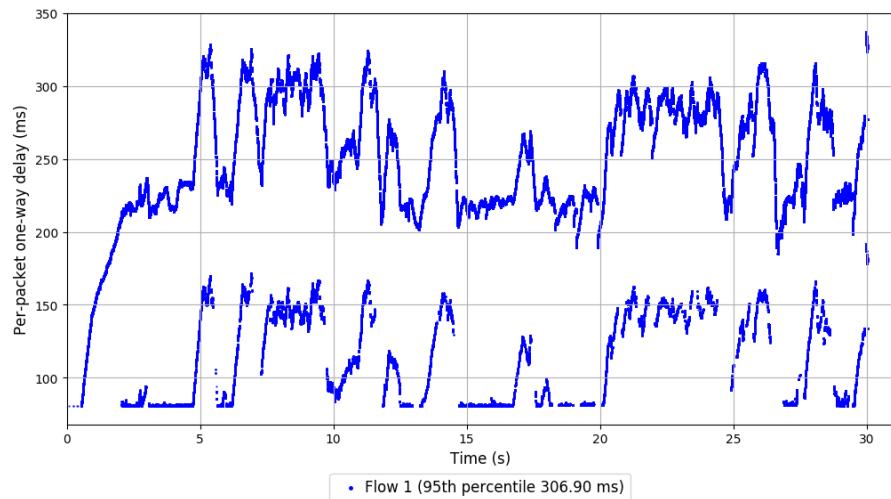
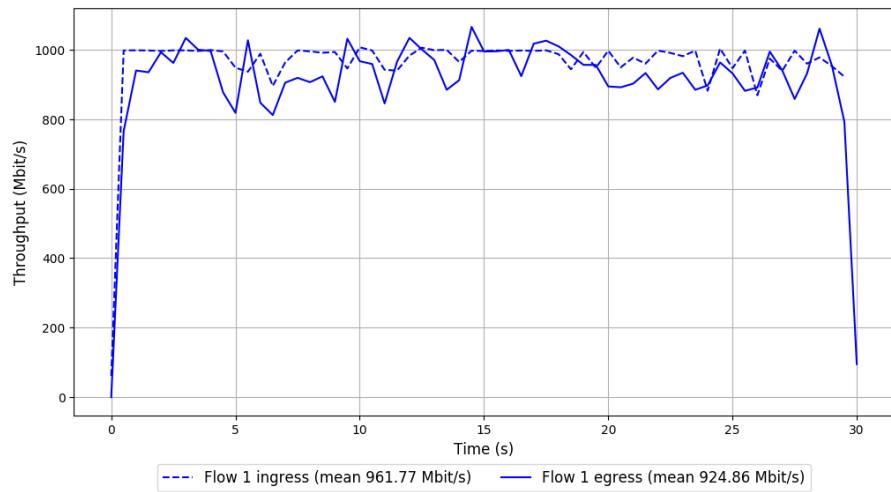
Run 2: Statistics of FillP

Start at: 2018-01-08 21:13:07

End at: 2018-01-08 21:13:37

```
# Below is generated by plot.py at 2018-01-09 00:23:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 924.86 Mbit/s
95th percentile per-packet one-way delay: 306.902 ms
Loss rate: 3.83%
-- Flow 1:
Average throughput: 924.86 Mbit/s
95th percentile per-packet one-way delay: 306.902 ms
Loss rate: 3.83%
```

Run 2: Report of FillP — Data Link



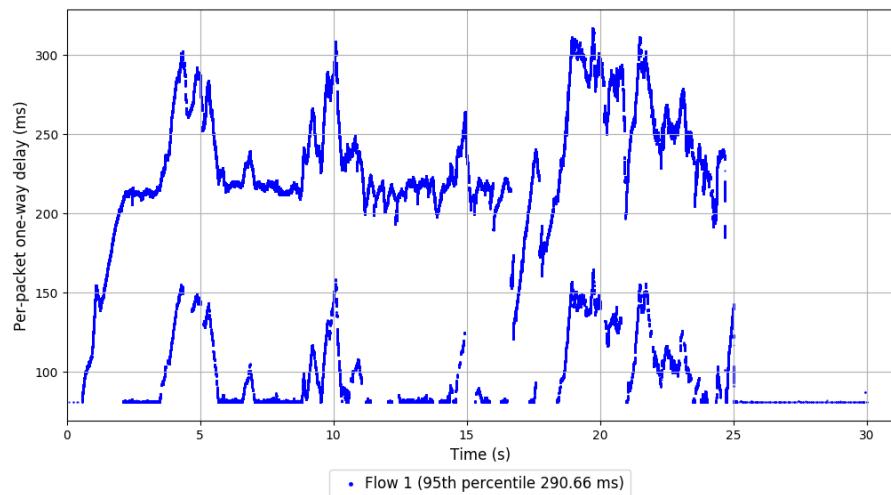
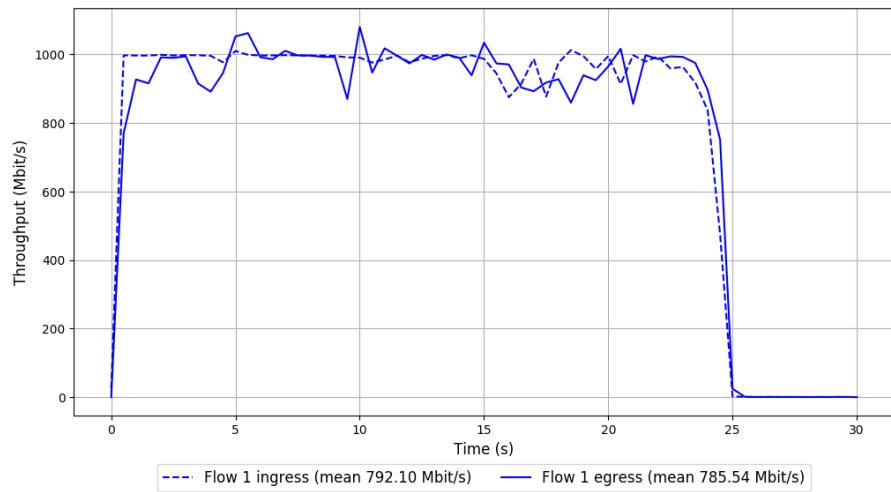
Run 3: Statistics of FillP

Start at: 2018-01-08 21:25:16

End at: 2018-01-08 21:25:46

```
# Below is generated by plot.py at 2018-01-09 00:23:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 785.54 Mbit/s
95th percentile per-packet one-way delay: 290.661 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 785.54 Mbit/s
95th percentile per-packet one-way delay: 290.661 ms
Loss rate: 0.83%
```

Run 3: Report of FillP — Data Link



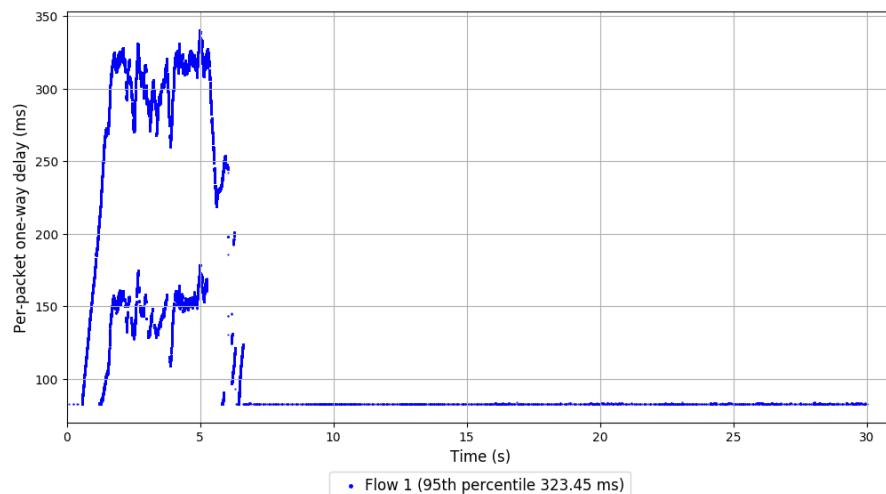
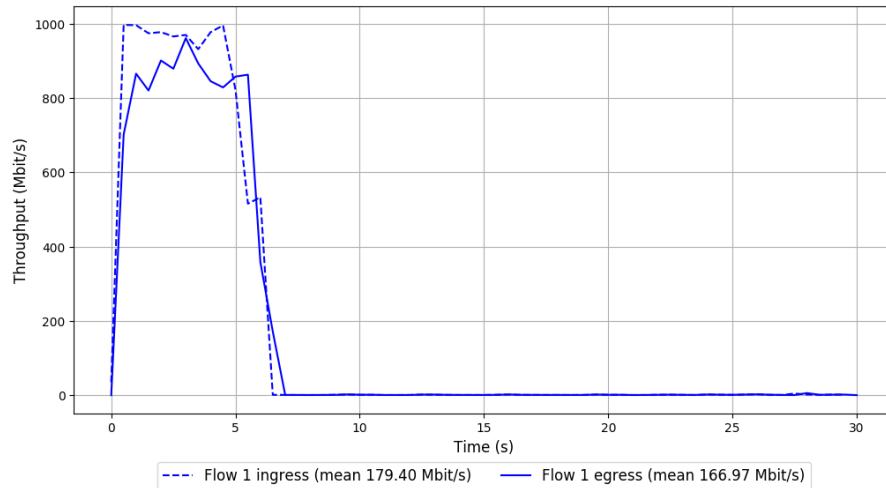
Run 4: Statistics of FillP

Start at: 2018-01-08 21:37:18

End at: 2018-01-08 21:37:48

```
# Below is generated by plot.py at 2018-01-09 00:23:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 166.97 Mbit/s
95th percentile per-packet one-way delay: 323.447 ms
Loss rate: 6.93%
-- Flow 1:
Average throughput: 166.97 Mbit/s
95th percentile per-packet one-way delay: 323.447 ms
Loss rate: 6.93%
```

Run 4: Report of FillP — Data Link



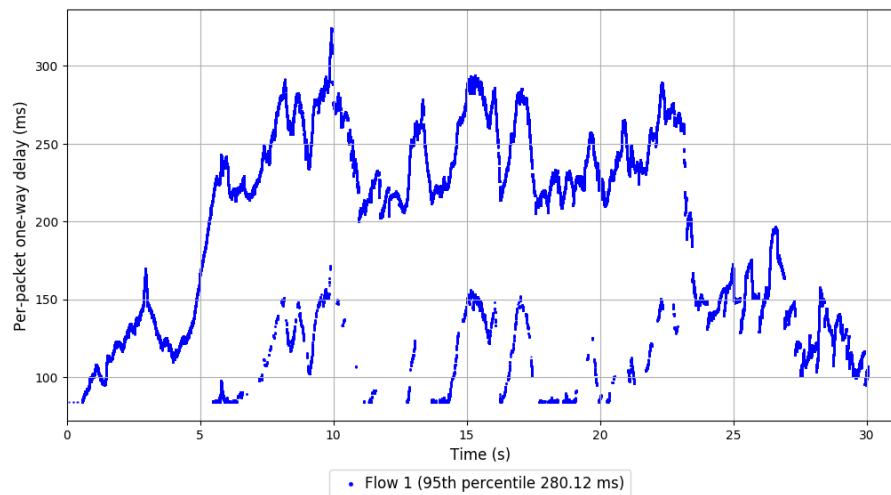
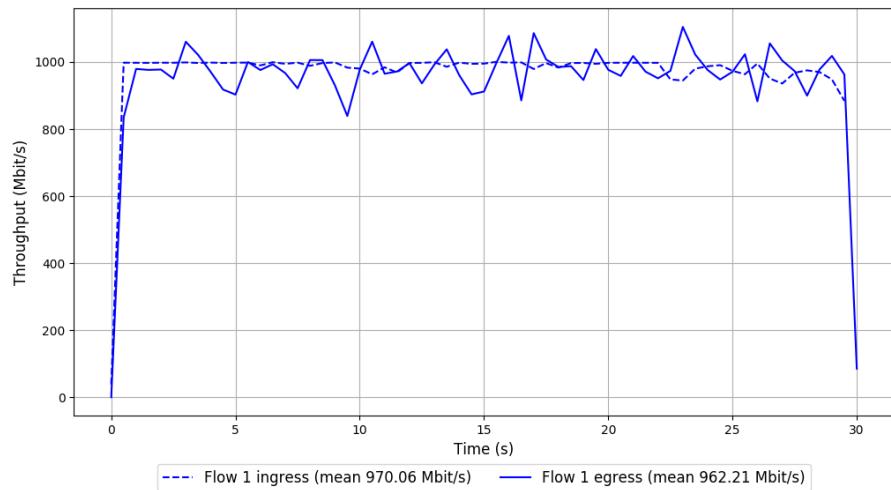
Run 5: Statistics of FillP

Start at: 2018-01-08 21:48:59

End at: 2018-01-08 21:49:29

```
# Below is generated by plot.py at 2018-01-09 00:24:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 962.21 Mbit/s
95th percentile per-packet one-way delay: 280.118 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 962.21 Mbit/s
95th percentile per-packet one-way delay: 280.118 ms
Loss rate: 0.81%
```

Run 5: Report of FillP — Data Link



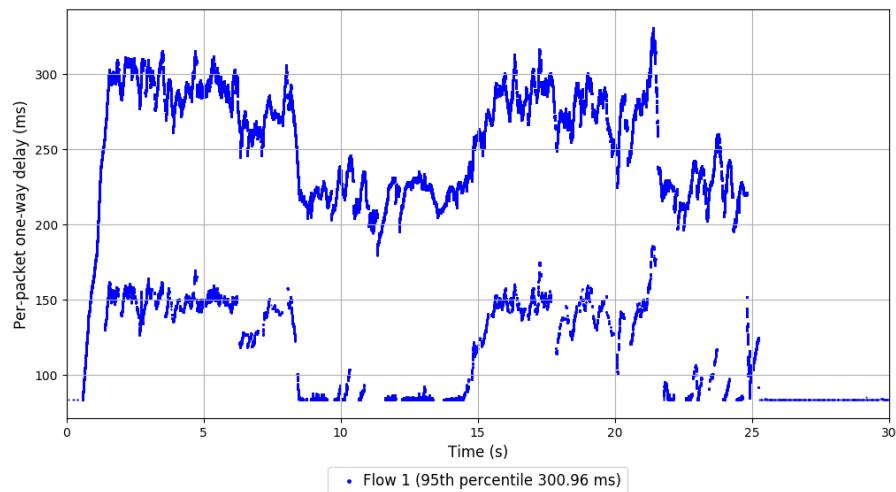
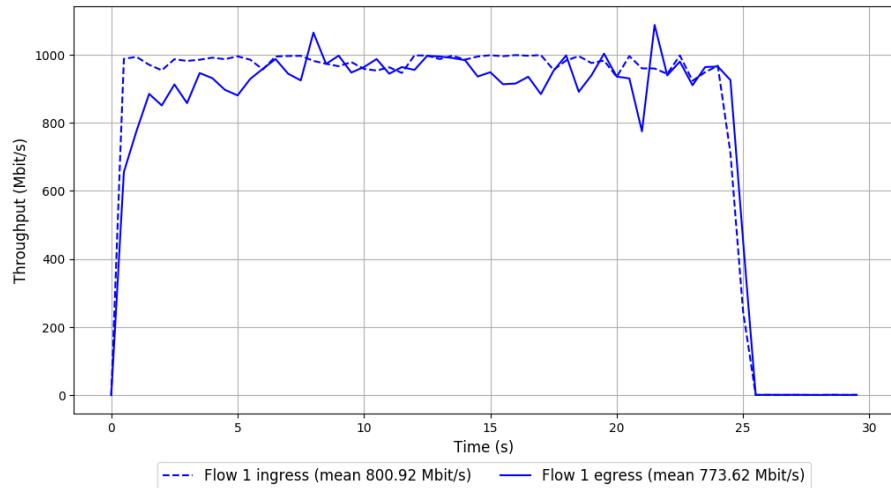
Run 6: Statistics of FillP

Start at: 2018-01-08 22:00:44

End at: 2018-01-08 22:01:14

```
# Below is generated by plot.py at 2018-01-09 00:24:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 773.62 Mbit/s
95th percentile per-packet one-way delay: 300.956 ms
Loss rate: 3.41%
-- Flow 1:
Average throughput: 773.62 Mbit/s
95th percentile per-packet one-way delay: 300.956 ms
Loss rate: 3.41%
```

Run 6: Report of FillP — Data Link



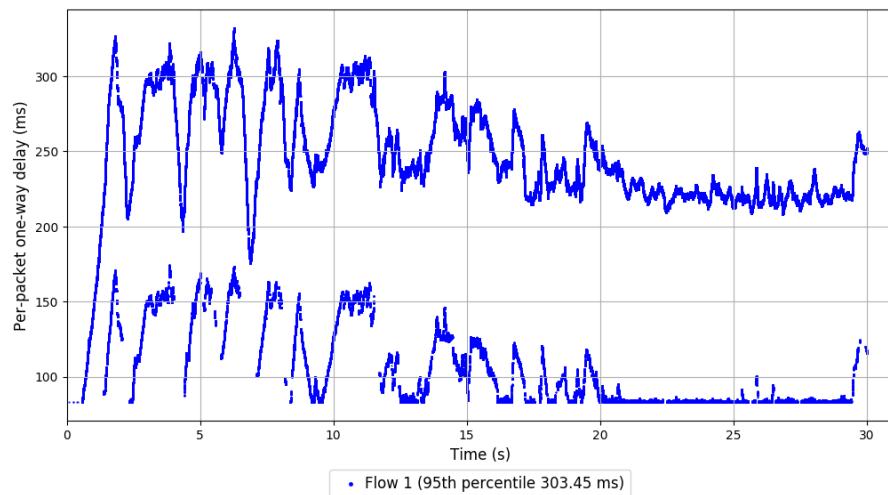
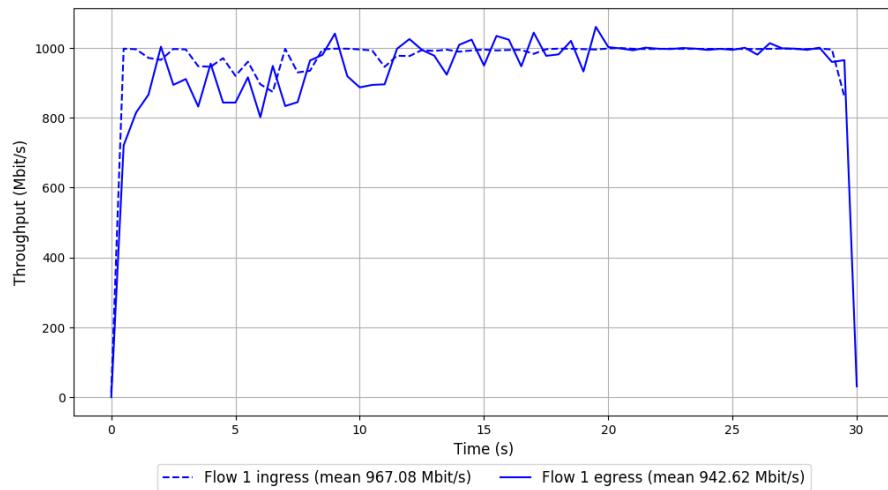
Run 7: Statistics of FillP

Start at: 2018-01-08 22:12:49

End at: 2018-01-08 22:13:19

```
# Below is generated by plot.py at 2018-01-09 00:25:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 942.62 Mbit/s
95th percentile per-packet one-way delay: 303.446 ms
Loss rate: 2.53%
-- Flow 1:
Average throughput: 942.62 Mbit/s
95th percentile per-packet one-way delay: 303.446 ms
Loss rate: 2.53%
```

Run 7: Report of FillP — Data Link



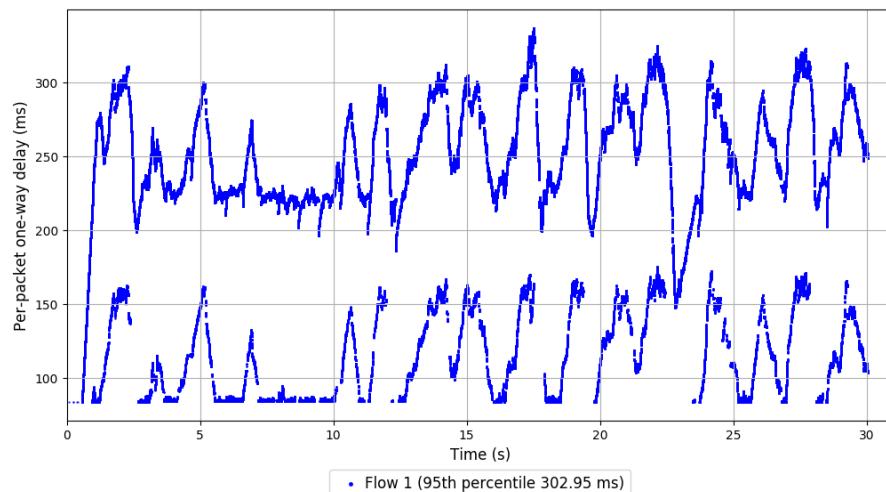
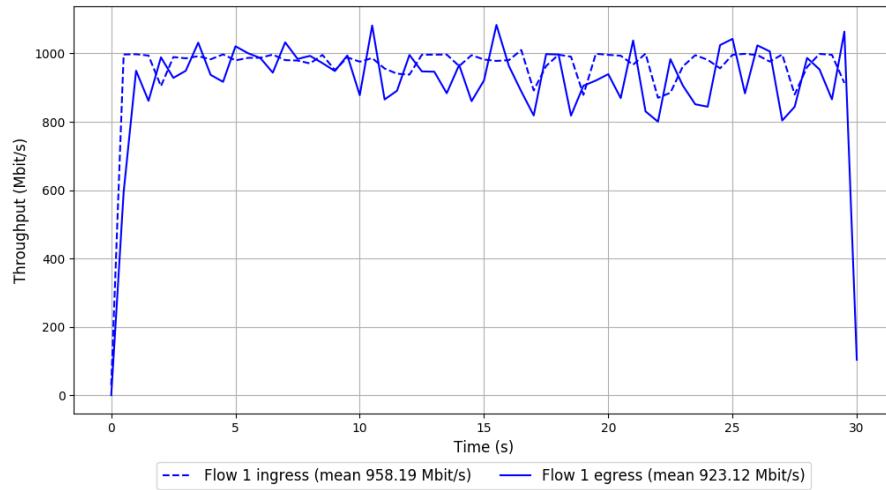
Run 8: Statistics of FillP

Start at: 2018-01-08 22:25:01

End at: 2018-01-08 22:25:31

```
# Below is generated by plot.py at 2018-01-09 00:25:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 923.12 Mbit/s
95th percentile per-packet one-way delay: 302.952 ms
Loss rate: 3.64%
-- Flow 1:
Average throughput: 923.12 Mbit/s
95th percentile per-packet one-way delay: 302.952 ms
Loss rate: 3.64%
```

Run 8: Report of FillP — Data Link



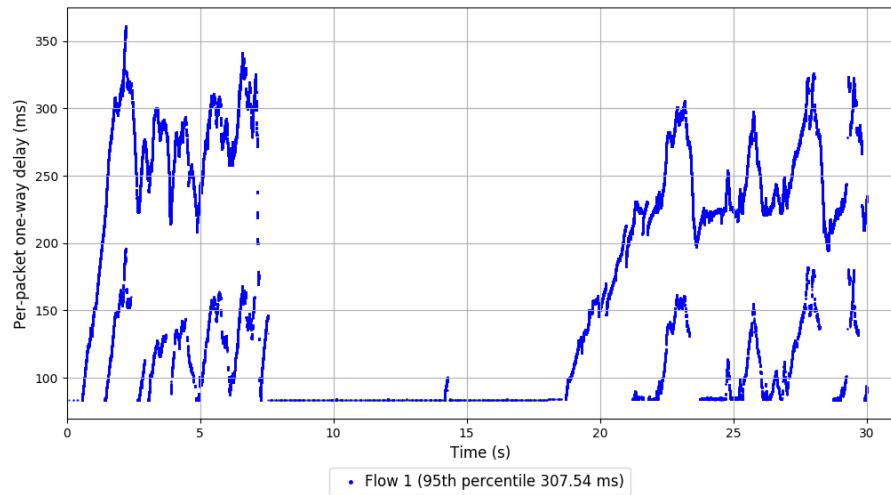
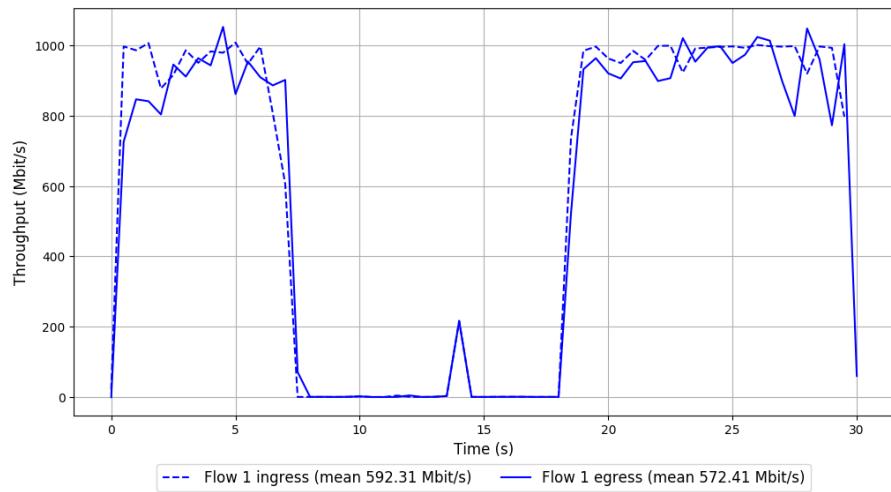
Run 9: Statistics of FillP

Start at: 2018-01-08 22:37:17

End at: 2018-01-08 22:37:47

```
# Below is generated by plot.py at 2018-01-09 00:25:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 572.41 Mbit/s
95th percentile per-packet one-way delay: 307.541 ms
Loss rate: 3.36%
-- Flow 1:
Average throughput: 572.41 Mbit/s
95th percentile per-packet one-way delay: 307.541 ms
Loss rate: 3.36%
```

Run 9: Report of FillP — Data Link



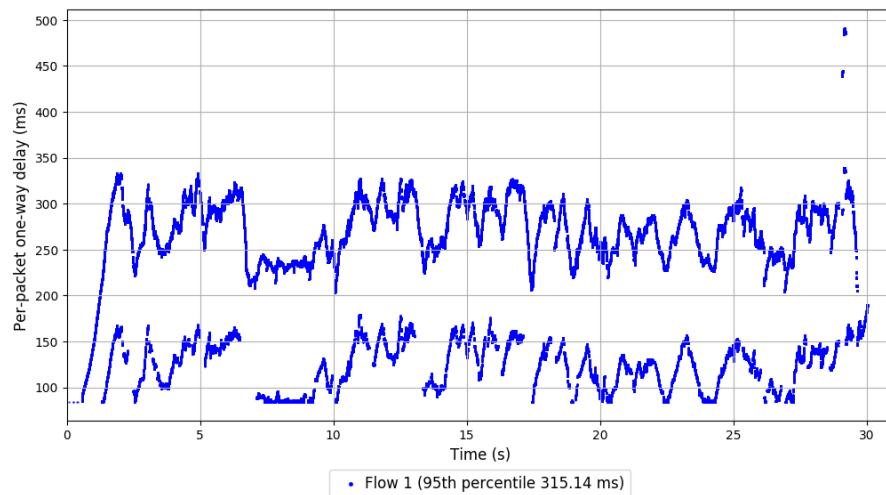
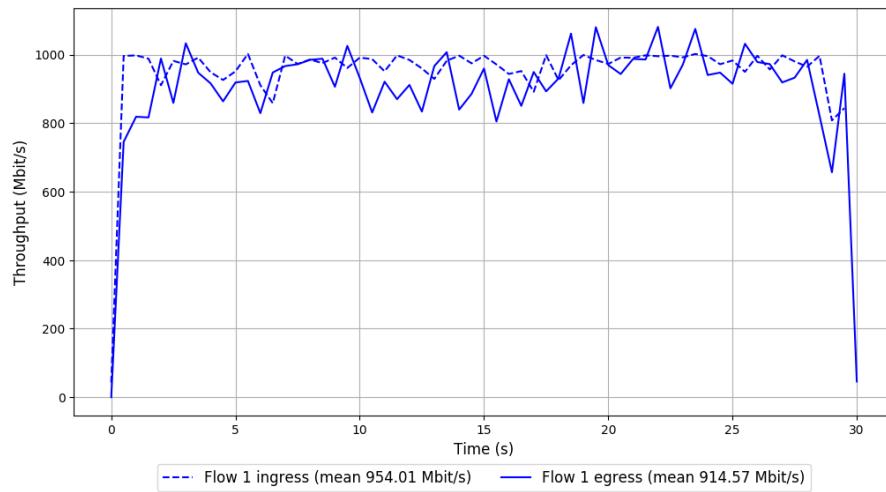
Run 10: Statistics of FillP

Start at: 2018-01-08 22:49:10

End at: 2018-01-08 22:49:40

```
# Below is generated by plot.py at 2018-01-09 00:27:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 914.57 Mbit/s
95th percentile per-packet one-way delay: 315.143 ms
Loss rate: 4.13%
-- Flow 1:
Average throughput: 914.57 Mbit/s
95th percentile per-packet one-way delay: 315.143 ms
Loss rate: 4.13%
```

Run 10: Report of FillP — Data Link



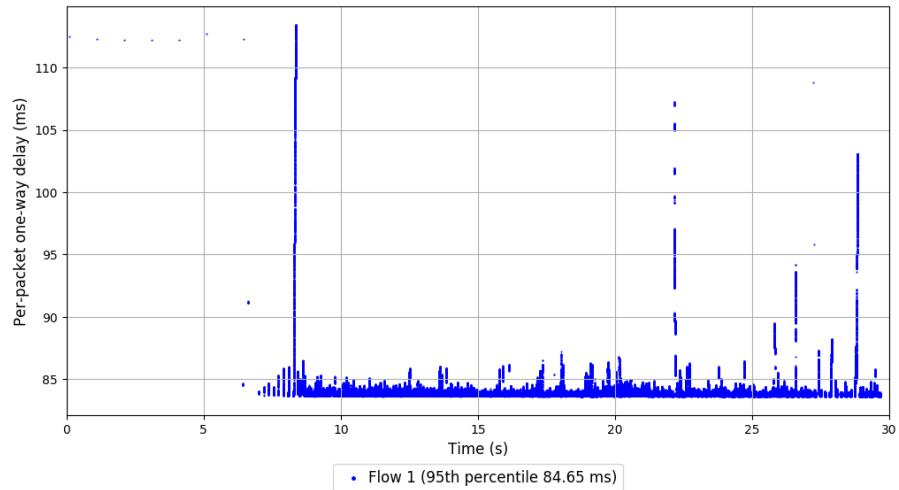
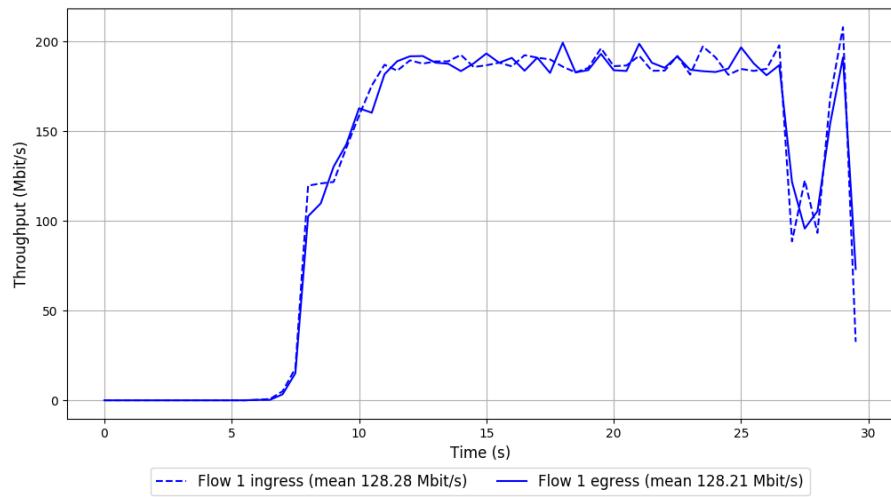
Run 1: Statistics of Indigo

Start at: 2018-01-08 20:52:24

End at: 2018-01-08 20:52:54

```
# Below is generated by plot.py at 2018-01-09 00:27:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 128.21 Mbit/s
95th percentile per-packet one-way delay: 84.652 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 128.21 Mbit/s
95th percentile per-packet one-way delay: 84.652 ms
Loss rate: 0.15%
```

Run 1: Report of Indigo — Data Link



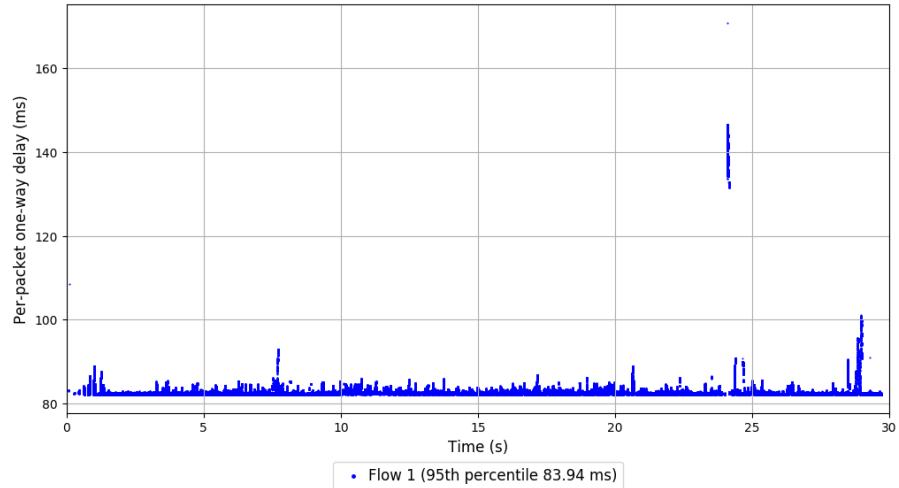
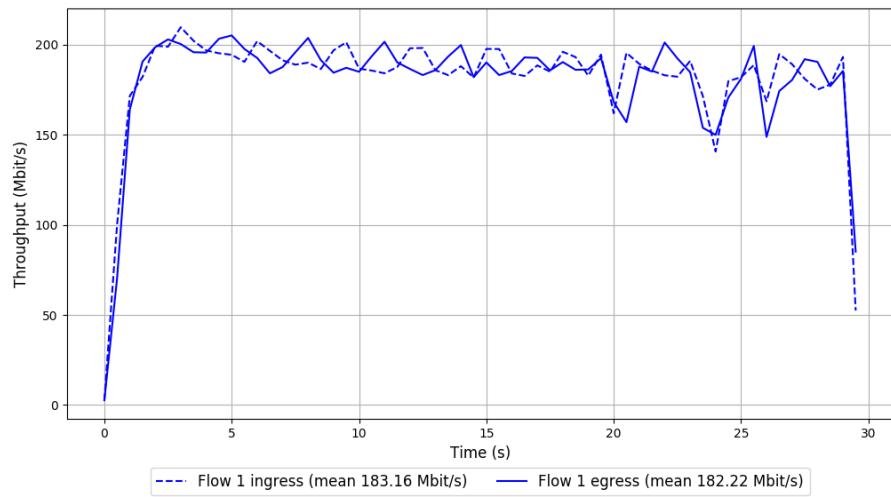
Run 2: Statistics of Indigo

Start at: 2018-01-08 21:04:25

End at: 2018-01-08 21:04:55

```
# Below is generated by plot.py at 2018-01-09 00:27:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 182.22 Mbit/s
95th percentile per-packet one-way delay: 83.944 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 182.22 Mbit/s
95th percentile per-packet one-way delay: 83.944 ms
Loss rate: 0.52%
```

Run 2: Report of Indigo — Data Link



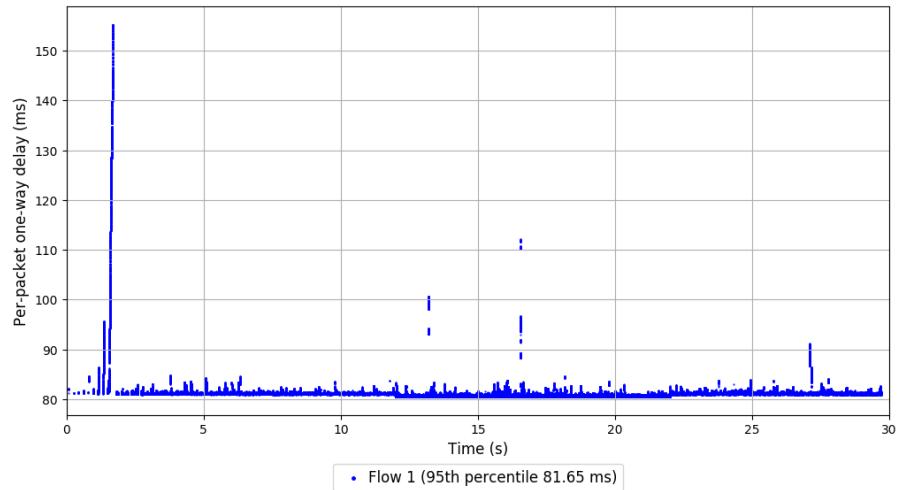
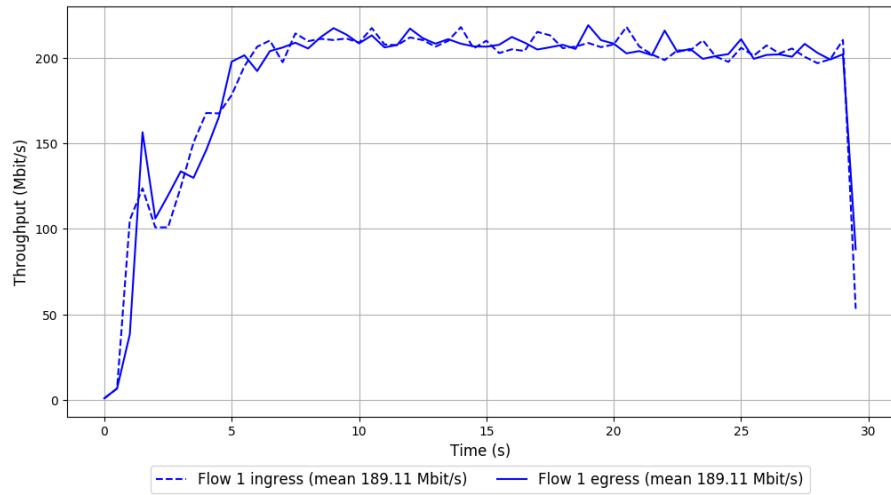
Run 3: Statistics of Indigo

Start at: 2018-01-08 21:16:33

End at: 2018-01-08 21:17:03

```
# Below is generated by plot.py at 2018-01-09 00:27:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 189.11 Mbit/s
95th percentile per-packet one-way delay: 81.649 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 189.11 Mbit/s
95th percentile per-packet one-way delay: 81.649 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo — Data Link



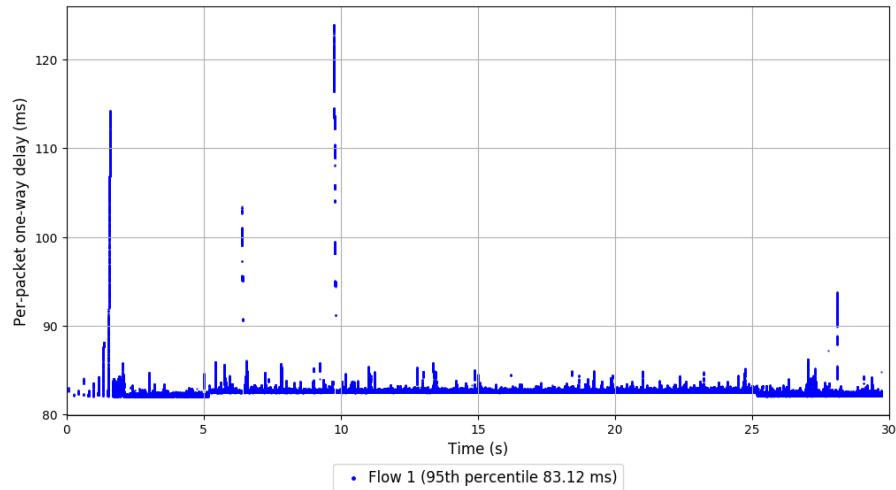
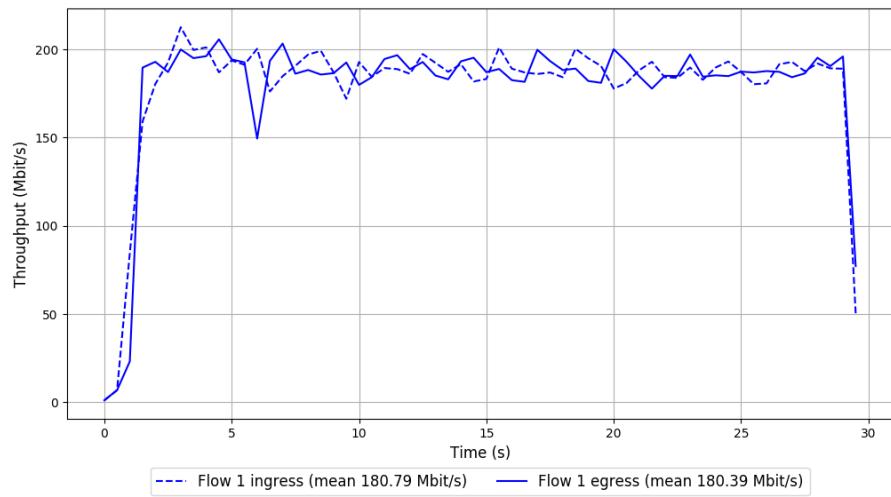
Run 4: Statistics of Indigo

Start at: 2018-01-08 21:28:39

End at: 2018-01-08 21:29:09

```
# Below is generated by plot.py at 2018-01-09 00:27:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 180.39 Mbit/s
95th percentile per-packet one-way delay: 83.122 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 180.39 Mbit/s
95th percentile per-packet one-way delay: 83.122 ms
Loss rate: 0.21%
```

Run 4: Report of Indigo — Data Link



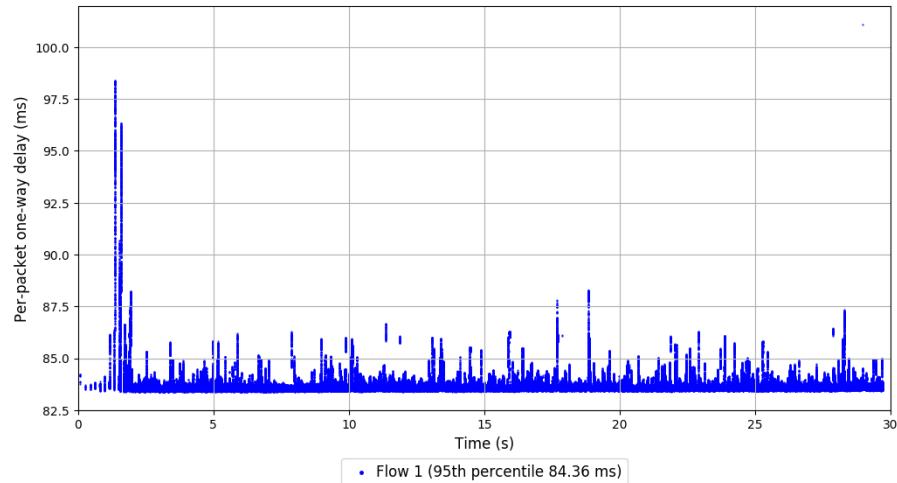
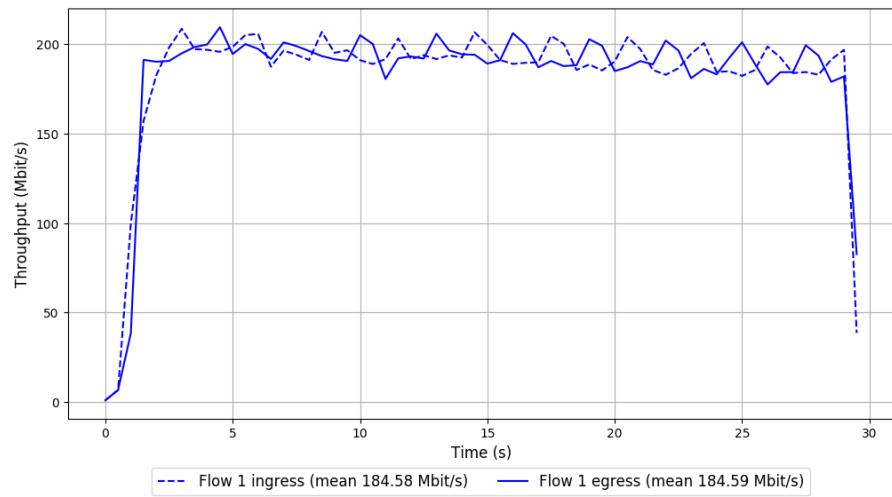
Run 5: Statistics of Indigo

Start at: 2018-01-08 21:40:15

End at: 2018-01-08 21:40:45

```
# Below is generated by plot.py at 2018-01-09 00:27:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 184.59 Mbit/s
95th percentile per-packet one-way delay: 84.355 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 184.59 Mbit/s
95th percentile per-packet one-way delay: 84.355 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo — Data Link



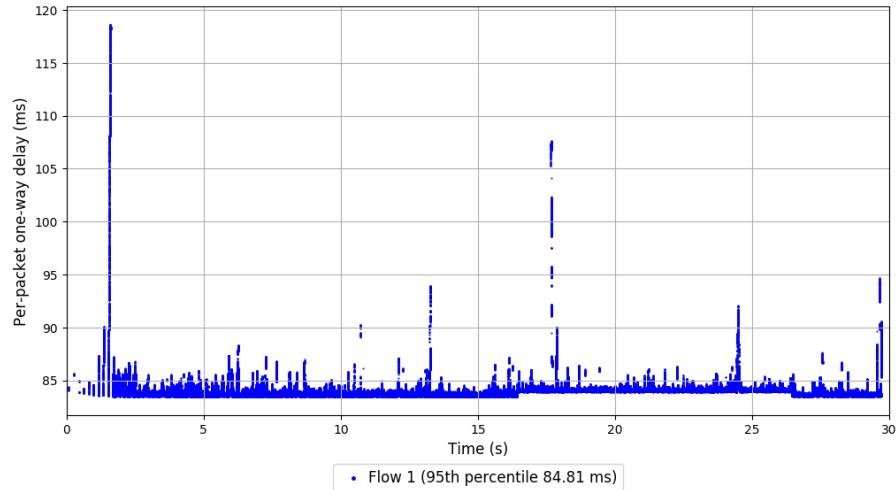
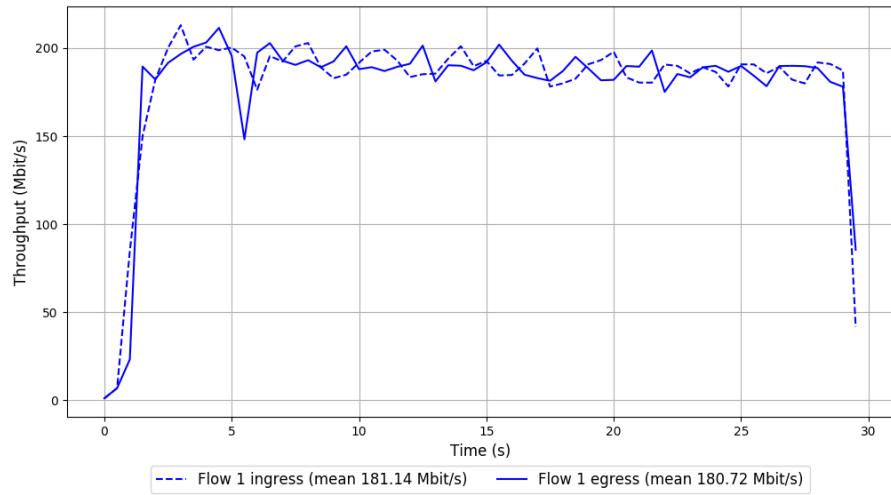
Run 6: Statistics of Indigo

Start at: 2018-01-08 21:52:28

End at: 2018-01-08 21:52:58

```
# Below is generated by plot.py at 2018-01-09 00:27:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 180.72 Mbit/s
95th percentile per-packet one-way delay: 84.813 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 180.72 Mbit/s
95th percentile per-packet one-way delay: 84.813 ms
Loss rate: 0.23%
```

Run 6: Report of Indigo — Data Link



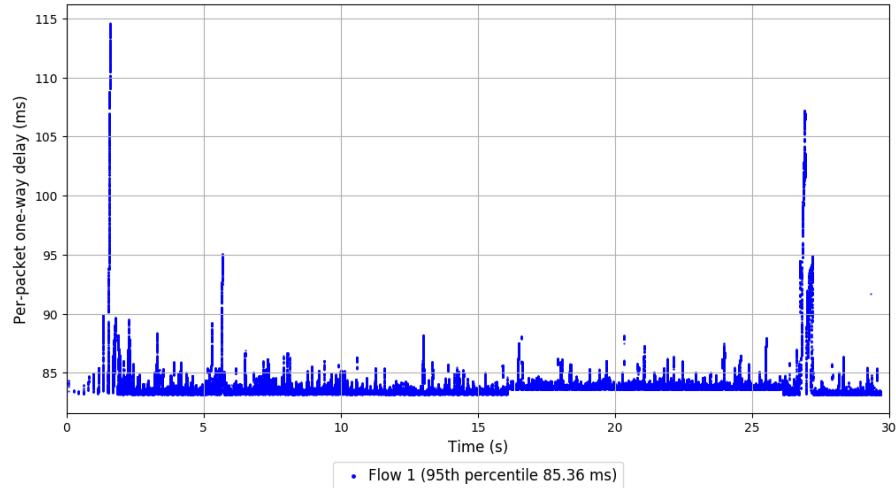
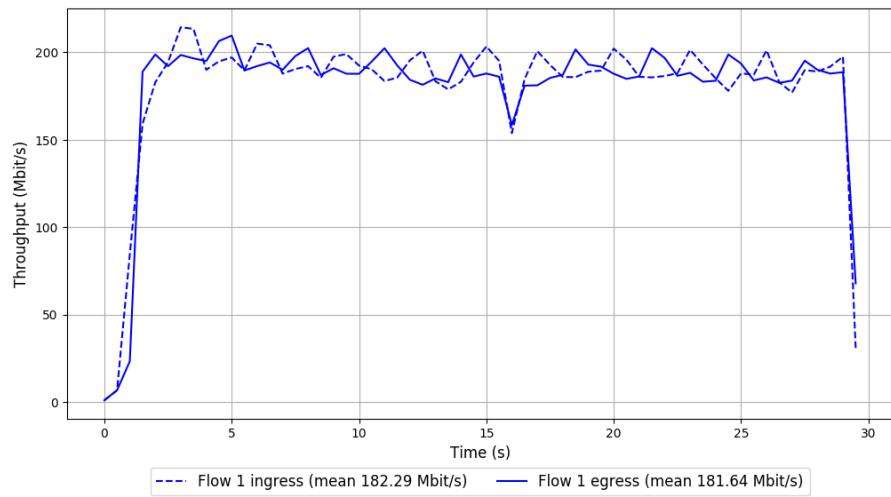
Run 7: Statistics of Indigo

Start at: 2018-01-08 22:04:08

End at: 2018-01-08 22:04:38

```
# Below is generated by plot.py at 2018-01-09 00:27:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 181.64 Mbit/s
95th percentile per-packet one-way delay: 85.356 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 181.64 Mbit/s
95th percentile per-packet one-way delay: 85.356 ms
Loss rate: 0.36%
```

Run 7: Report of Indigo — Data Link



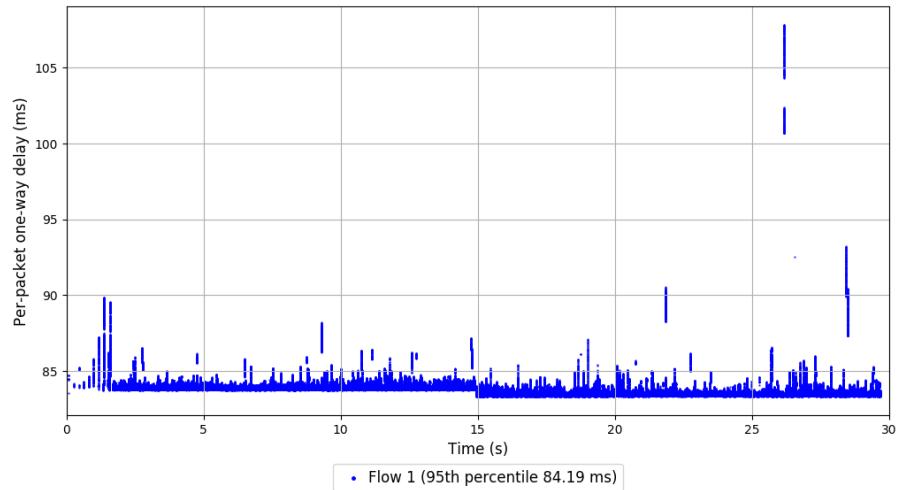
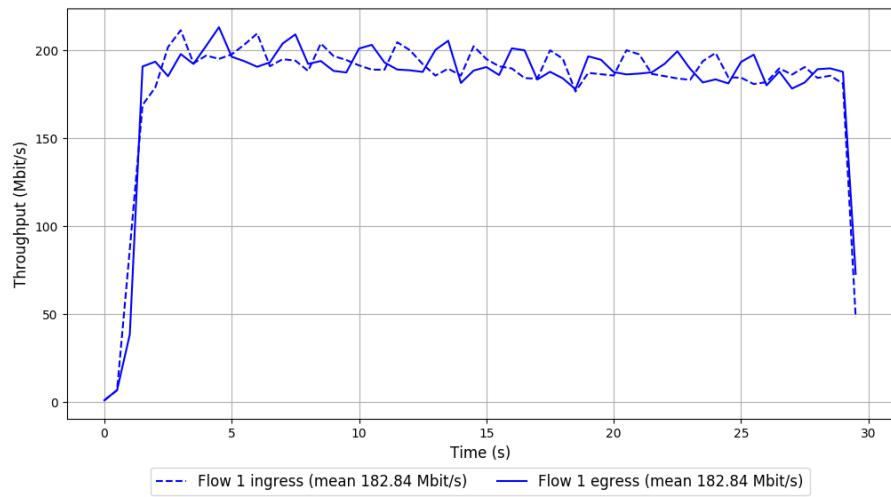
Run 8: Statistics of Indigo

Start at: 2018-01-08 22:16:20

End at: 2018-01-08 22:16:50

```
# Below is generated by plot.py at 2018-01-09 00:27:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 182.84 Mbit/s
95th percentile per-packet one-way delay: 84.190 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 182.84 Mbit/s
95th percentile per-packet one-way delay: 84.190 ms
Loss rate: 0.00%
```

Run 8: Report of Indigo — Data Link



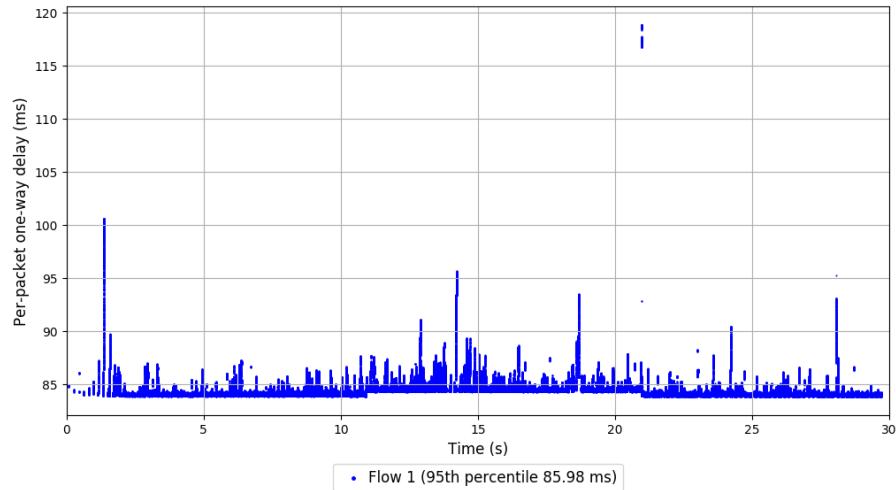
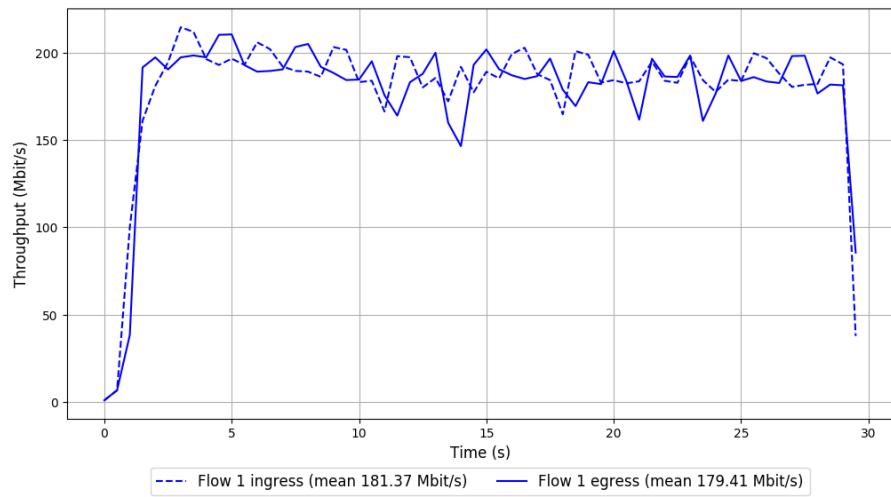
Run 9: Statistics of Indigo

Start at: 2018-01-08 22:28:34

End at: 2018-01-08 22:29:04

```
# Below is generated by plot.py at 2018-01-09 00:27:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 179.41 Mbit/s
95th percentile per-packet one-way delay: 85.985 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 179.41 Mbit/s
95th percentile per-packet one-way delay: 85.985 ms
Loss rate: 1.08%
```

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-08 22:40:32

End at: 2018-01-08 22:41:02

```
# Below is generated by plot.py at 2018-01-09 00:27:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 180.24 Mbit/s
95th percentile per-packet one-way delay: 83.949 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 180.24 Mbit/s
95th percentile per-packet one-way delay: 83.949 ms
Loss rate: 0.00%
```

Run 10: Report of Indigo — Data Link

