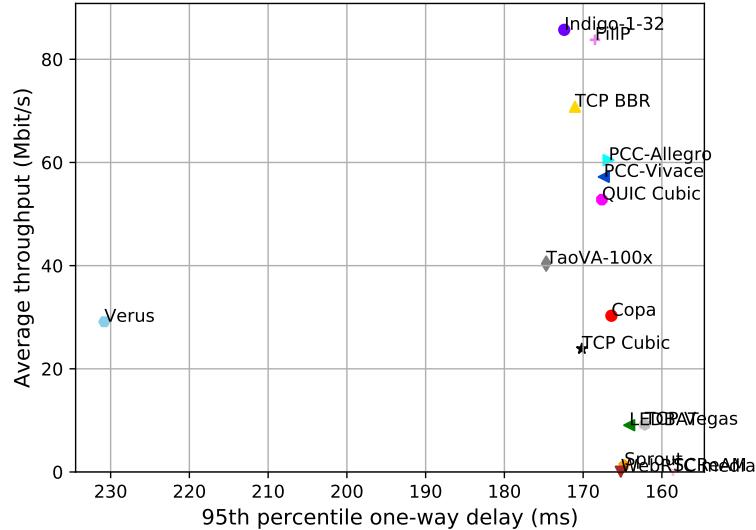


Pantheon Report

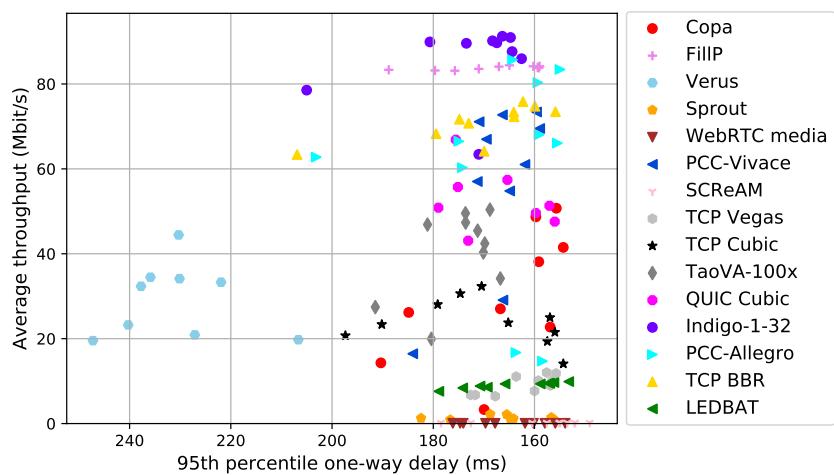
Generated at 2018-04-17 09:08:22 (UTC).
Data path: AWS Korea Ethernet (*local*) → China Ethernet (*remote*).
Repeated the test of 16 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).
NTP offsets were measured against `ntp.nict.jp` and have been applied to correct the timestamps in logs.

```
Git summary:  
branch: master @ b3d6e7098641364fd3a292656a51aa81e316d0b4  
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50  
  M datagrump/sender.cc  
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44  
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec  
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9  
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d  
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d  
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f  
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89  
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681  
  M datagrump/sender.cc  
third_party/libutp @ b3465b942e2826f2b179aab4a906ce6bb7cf3cf  
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/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab  
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/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3  
third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581
```

test from AWS Korea Ethernet to China Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from AWS Korea Ethernet to China Ethernet, 10 runs of 30s each per scheme



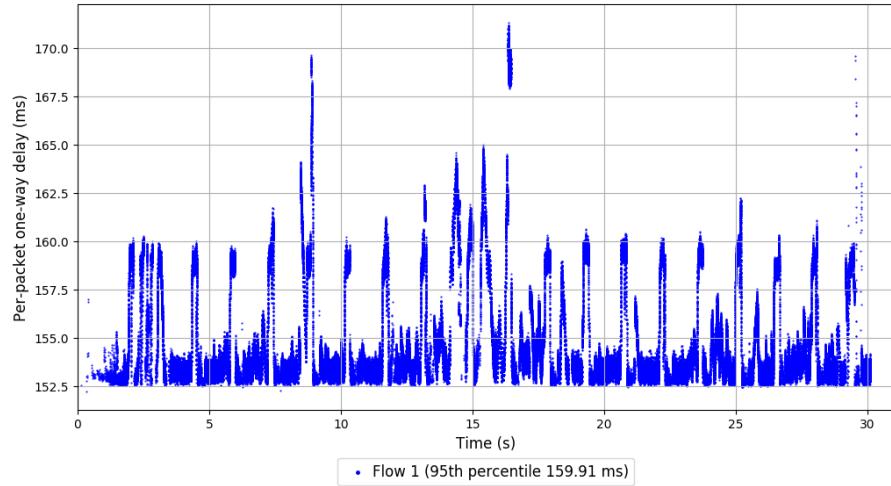
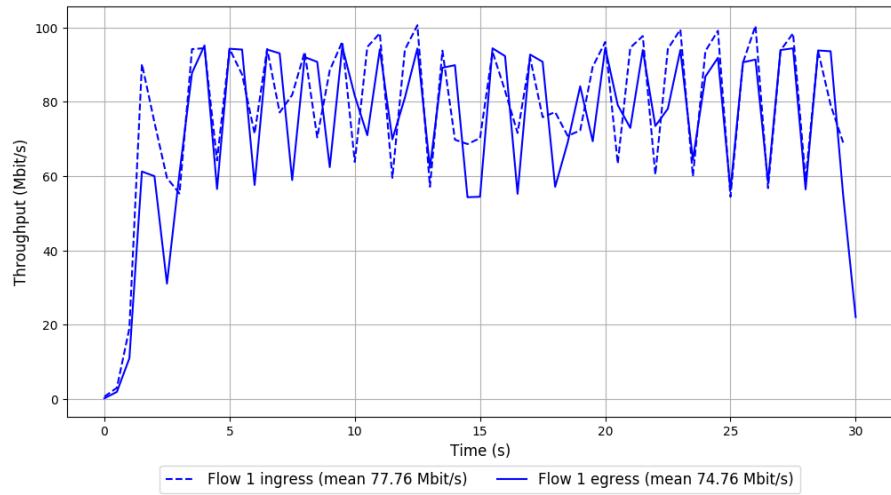
| scheme | # runs | mean avg tput (Mbit/s) flow 1 | mean 95th-%ile delay (ms) flow 1 | mean loss rate (%) flow 1 |
|--------------|--------|----------------------------------|-------------------------------------|------------------------------|
| TCP BBR | 10 | 70.80 | 171.03 | 3.56 |
| TCP Cubic | 10 | 23.88 | 170.17 | 0.26 |
| LEDBAT | 10 | 9.06 | 164.15 | 0.00 |
| PCC-Allegro | 10 | 60.45 | 166.76 | 1.68 |
| QUIC Cubic | 8 | 52.80 | 167.61 | 0.35 |
| SCReAM | 10 | 0.22 | 158.59 | 0.01 |
| WebRTC media | 10 | 0.06 | 165.22 | 0.00 |
| Sprout | 10 | 1.32 | 164.78 | 0.33 |
| TaoVA-100x | 10 | 40.39 | 174.69 | 2.49 |
| TCP Vegas | 10 | 9.17 | 162.17 | 0.39 |
| Verus | 9 | 29.12 | 230.80 | 78.84 |
| Copa | 9 | 30.29 | 166.41 | 0.04 |
| FillP | 10 | 83.78 | 168.50 | 4.91 |
| Indigo-1-32 | 10 | 85.71 | 172.40 | 21.62 |
| PCC-Vivace | 10 | 57.21 | 167.38 | 0.24 |
| PCC-Expr | 0 | N/A | N/A | N/A |

Run 1: Statistics of TCP BBR

```
Start at: 2018-04-17 05:06:28
End at: 2018-04-17 05:06:58
Local clock offset: 4.662 ms
Remote clock offset: -13.895 ms

# Below is generated by plot.py at 2018-04-17 08:55:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.76 Mbit/s
95th percentile per-packet one-way delay: 159.915 ms
Loss rate: 3.86%
-- Flow 1:
Average throughput: 74.76 Mbit/s
95th percentile per-packet one-way delay: 159.915 ms
Loss rate: 3.86%
```

Run 1: Report of TCP BBR — Data Link

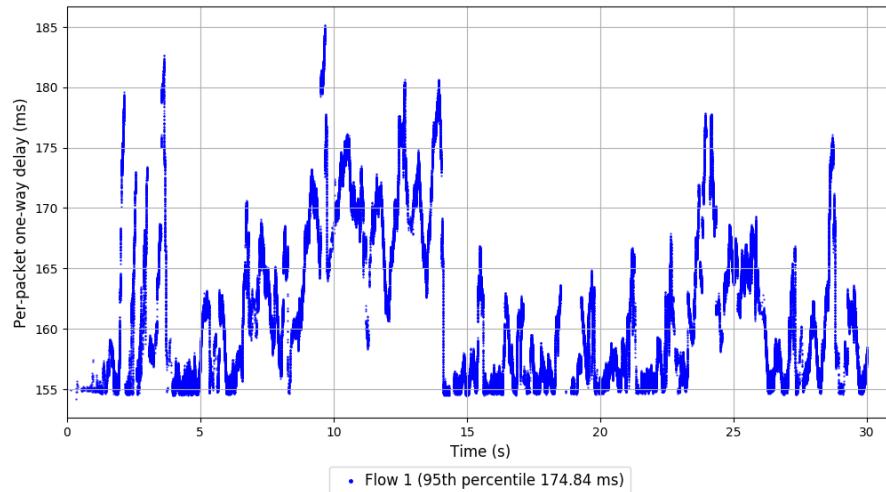
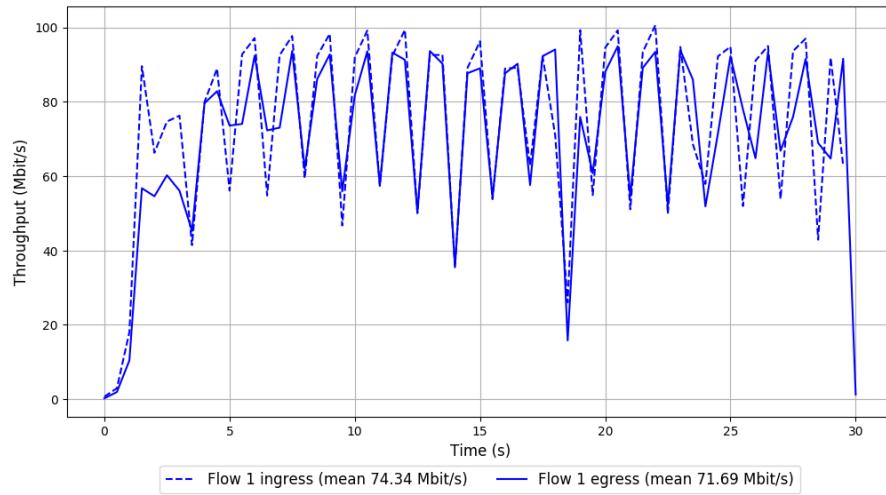


Run 2: Statistics of TCP BBR

```
Start at: 2018-04-17 05:27:38
End at: 2018-04-17 05:28:08
Local clock offset: 5.341 ms
Remote clock offset: 3.264 ms

# Below is generated by plot.py at 2018-04-17 08:55:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.69 Mbit/s
95th percentile per-packet one-way delay: 174.838 ms
Loss rate: 3.55%
-- Flow 1:
Average throughput: 71.69 Mbit/s
95th percentile per-packet one-way delay: 174.838 ms
Loss rate: 3.55%
```

Run 2: Report of TCP BBR — Data Link

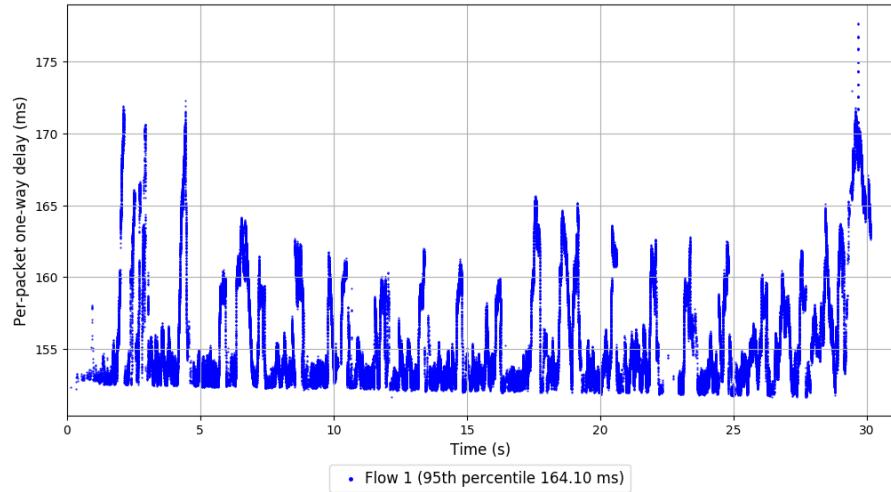
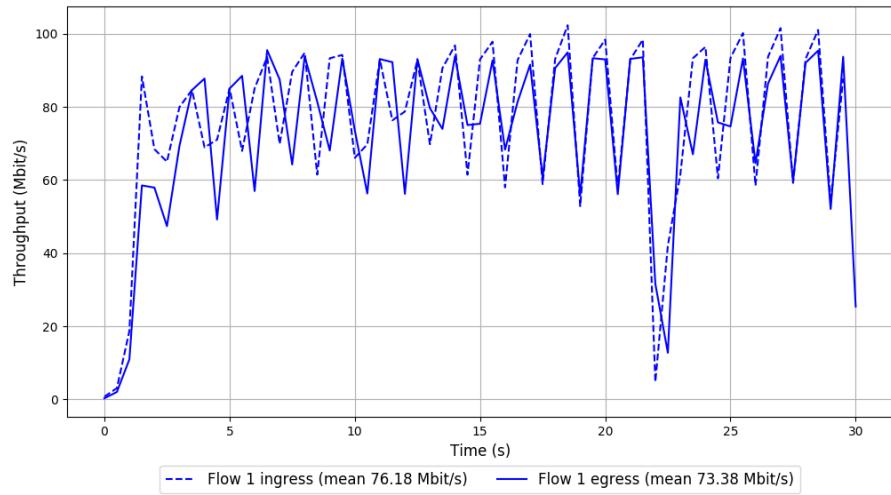


Run 3: Statistics of TCP BBR

```
Start at: 2018-04-17 05:48:53
End at: 2018-04-17 05:49:23
Local clock offset: 12.416 ms
Remote clock offset: -12.07 ms

# Below is generated by plot.py at 2018-04-17 08:55:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.38 Mbit/s
95th percentile per-packet one-way delay: 164.097 ms
Loss rate: 3.64%
-- Flow 1:
Average throughput: 73.38 Mbit/s
95th percentile per-packet one-way delay: 164.097 ms
Loss rate: 3.64%
```

Run 3: Report of TCP BBR — Data Link

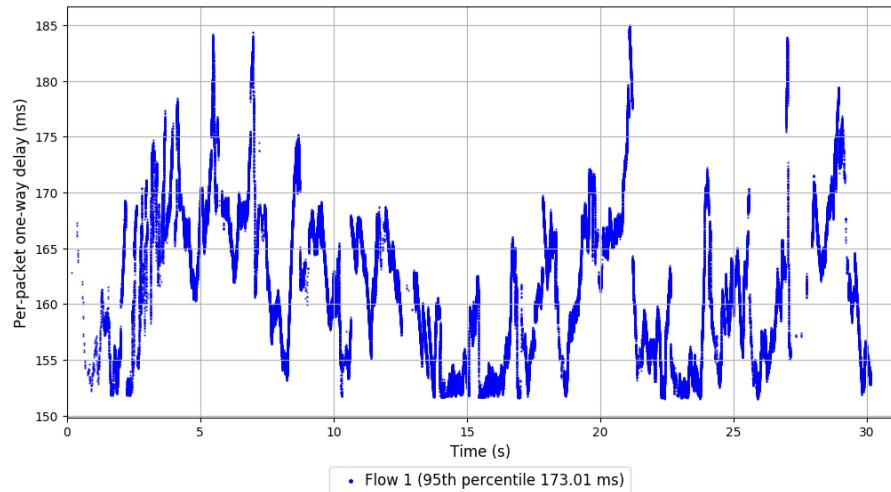
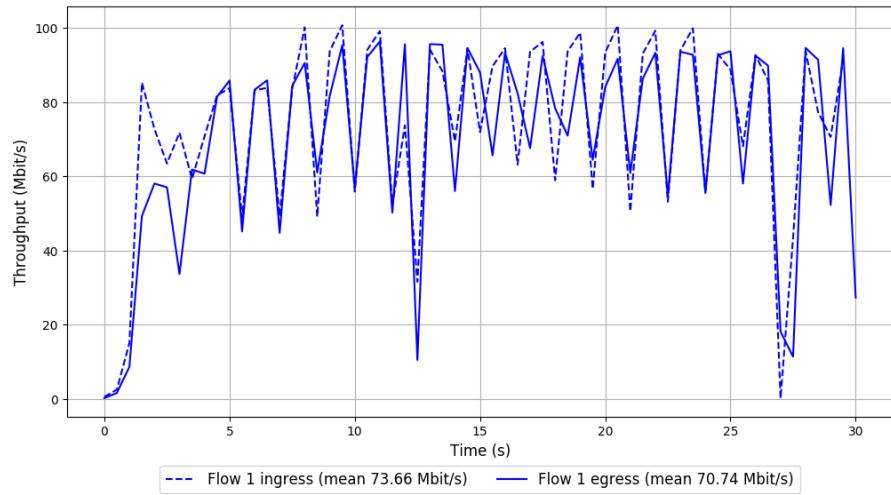


Run 4: Statistics of TCP BBR

```
Start at: 2018-04-17 06:10:04
End at: 2018-04-17 06:10:34
Local clock offset: 9.527 ms
Remote clock offset: -16.204 ms

# Below is generated by plot.py at 2018-04-17 08:55:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.74 Mbit/s
95th percentile per-packet one-way delay: 173.015 ms
Loss rate: 3.99%
-- Flow 1:
Average throughput: 70.74 Mbit/s
95th percentile per-packet one-way delay: 173.015 ms
Loss rate: 3.99%
```

Run 4: Report of TCP BBR — Data Link

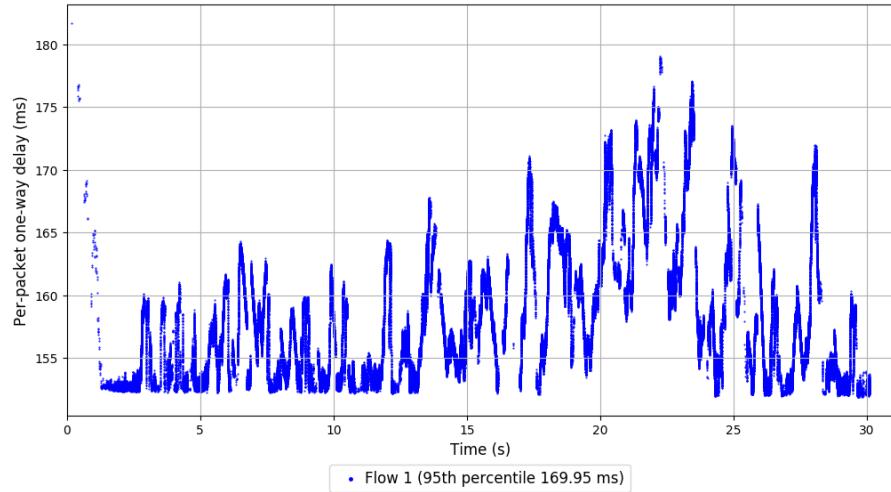
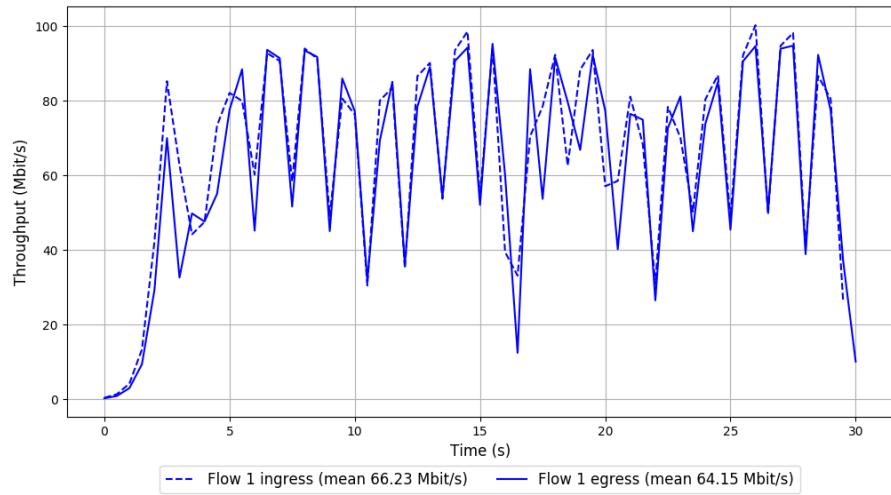


Run 5: Statistics of TCP BBR

```
Start at: 2018-04-17 06:31:13
End at: 2018-04-17 06:31:43
Local clock offset: 8.613 ms
Remote clock offset: -3.545 ms

# Below is generated by plot.py at 2018-04-17 08:55:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.15 Mbit/s
95th percentile per-packet one-way delay: 169.950 ms
Loss rate: 3.24%
-- Flow 1:
Average throughput: 64.15 Mbit/s
95th percentile per-packet one-way delay: 169.950 ms
Loss rate: 3.24%
```

Run 5: Report of TCP BBR — Data Link

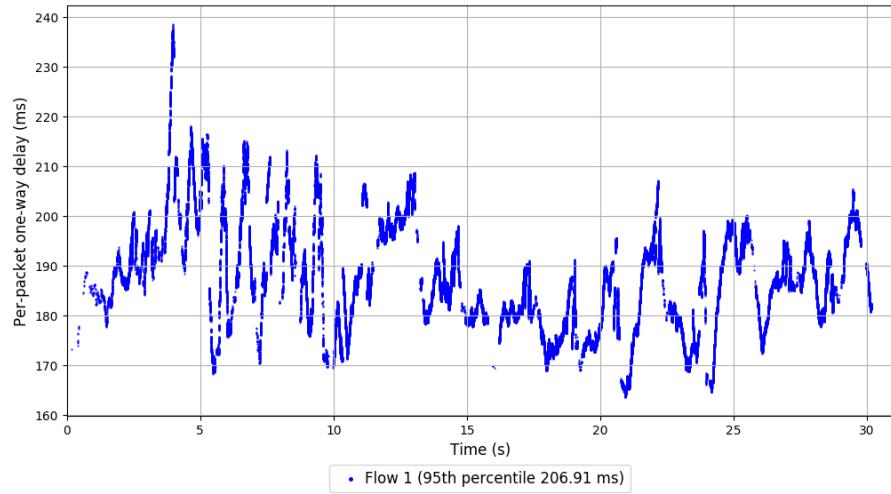
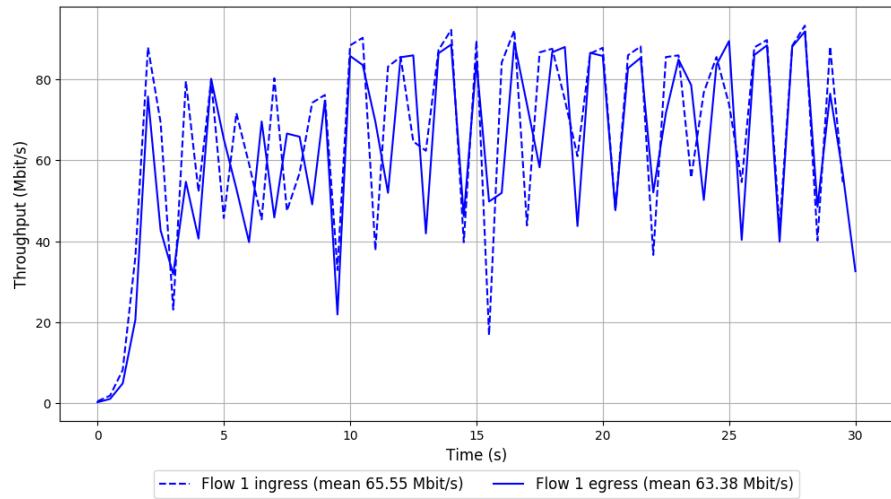


Run 6: Statistics of TCP BBR

```
Start at: 2018-04-17 06:58:10
End at: 2018-04-17 06:58:40
Local clock offset: -1.558 ms
Remote clock offset: 5.841 ms

# Below is generated by plot.py at 2018-04-17 08:55:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.38 Mbit/s
95th percentile per-packet one-way delay: 206.907 ms
Loss rate: 3.28%
-- Flow 1:
Average throughput: 63.38 Mbit/s
95th percentile per-packet one-way delay: 206.907 ms
Loss rate: 3.28%
```

Run 6: Report of TCP BBR — Data Link

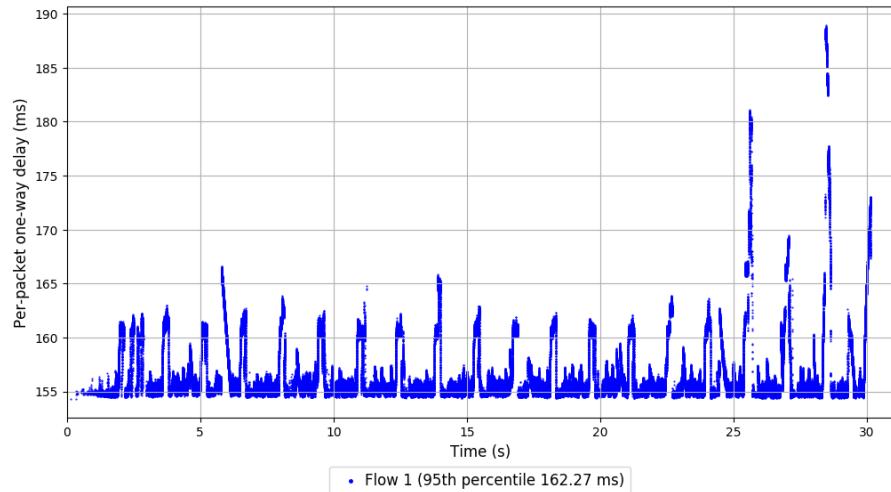
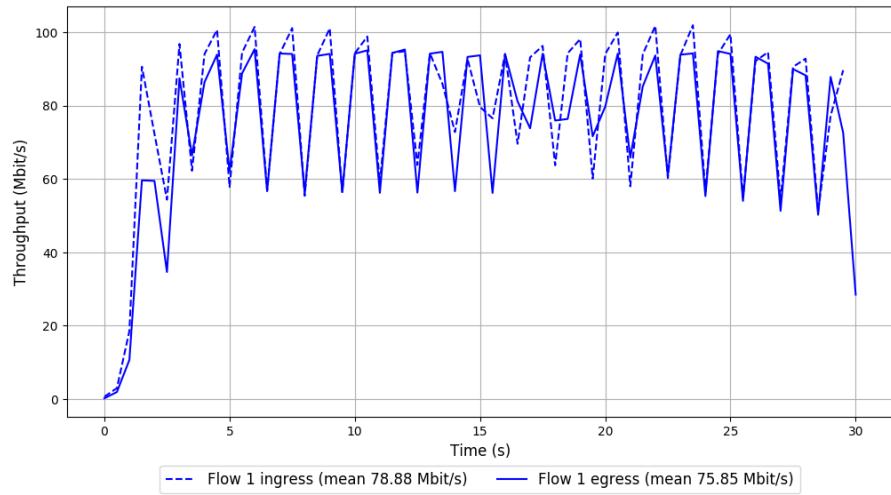


Run 7: Statistics of TCP BBR

```
Start at: 2018-04-17 07:20:05
End at: 2018-04-17 07:20:35
Local clock offset: 5.211 ms
Remote clock offset: 0.937 ms

# Below is generated by plot.py at 2018-04-17 08:55:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.85 Mbit/s
95th percentile per-packet one-way delay: 162.270 ms
Loss rate: 3.80%
-- Flow 1:
Average throughput: 75.85 Mbit/s
95th percentile per-packet one-way delay: 162.270 ms
Loss rate: 3.80%
```

Run 7: Report of TCP BBR — Data Link

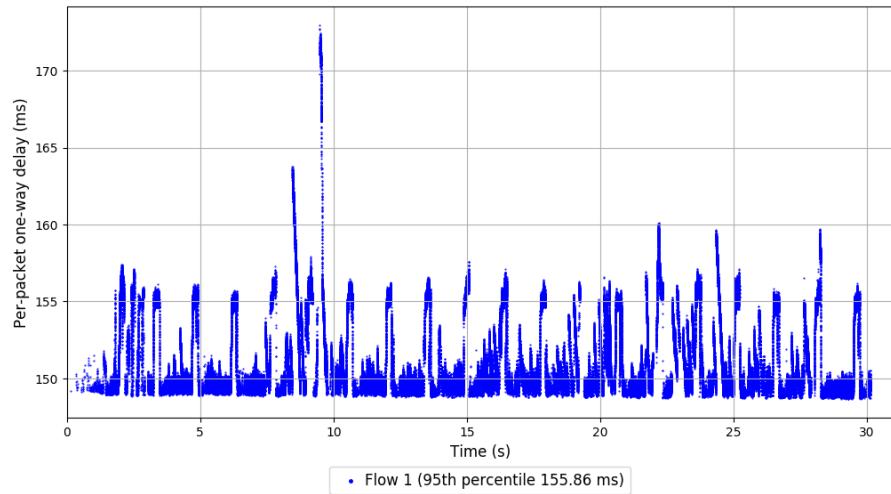
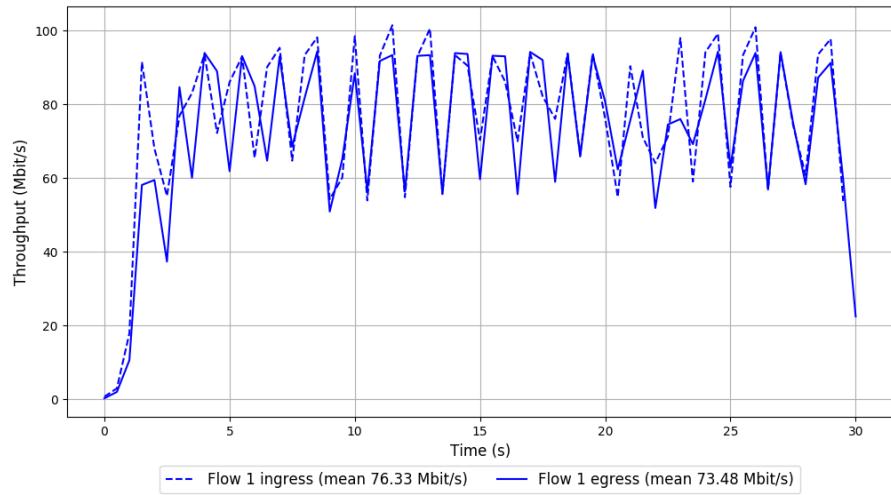


Run 8: Statistics of TCP BBR

```
Start at: 2018-04-17 07:41:57
End at: 2018-04-17 07:42:27
Local clock offset: 7.33 ms
Remote clock offset: 5.662 ms

# Below is generated by plot.py at 2018-04-17 08:55:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.48 Mbit/s
95th percentile per-packet one-way delay: 155.859 ms
Loss rate: 3.73%
-- Flow 1:
Average throughput: 73.48 Mbit/s
95th percentile per-packet one-way delay: 155.859 ms
Loss rate: 3.73%
```

Run 8: Report of TCP BBR — Data Link

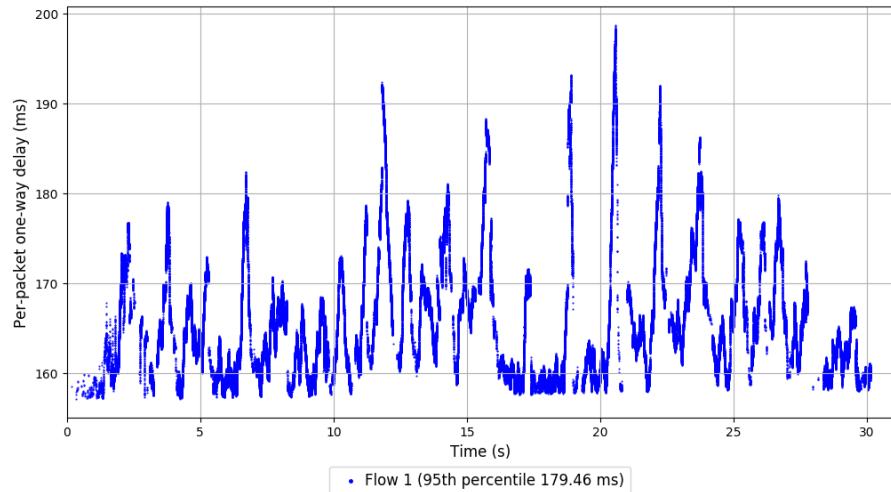
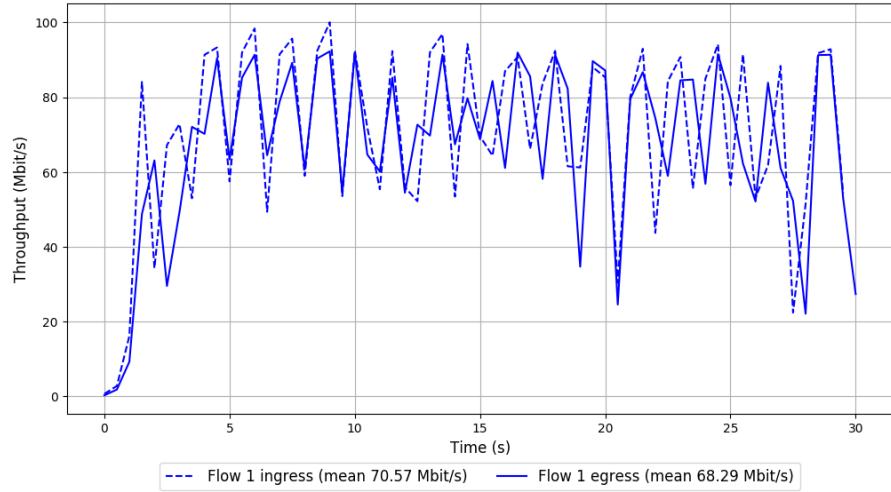


Run 9: Statistics of TCP BBR

```
Start at: 2018-04-17 08:04:30
End at: 2018-04-17 08:05:00
Local clock offset: 6.424 ms
Remote clock offset: 18.889 ms

# Below is generated by plot.py at 2018-04-17 08:56:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.29 Mbit/s
95th percentile per-packet one-way delay: 179.457 ms
Loss rate: 3.24%
-- Flow 1:
Average throughput: 68.29 Mbit/s
95th percentile per-packet one-way delay: 179.457 ms
Loss rate: 3.24%
```

Run 9: Report of TCP BBR — Data Link

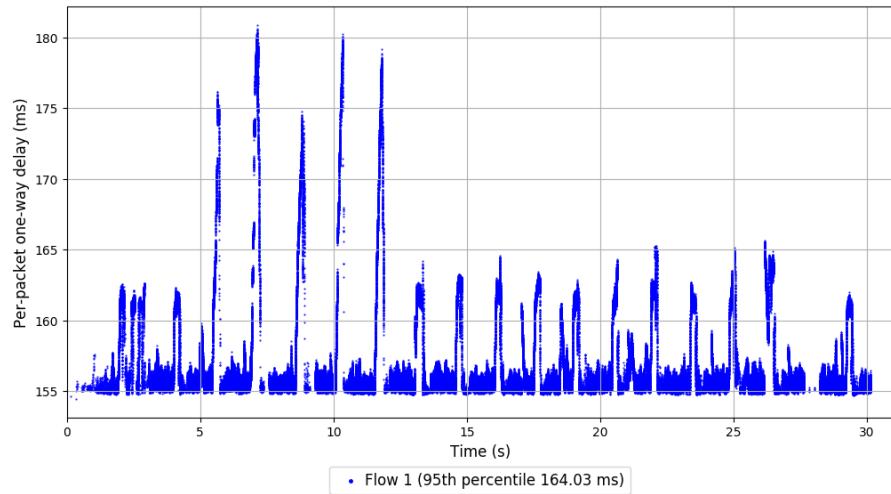
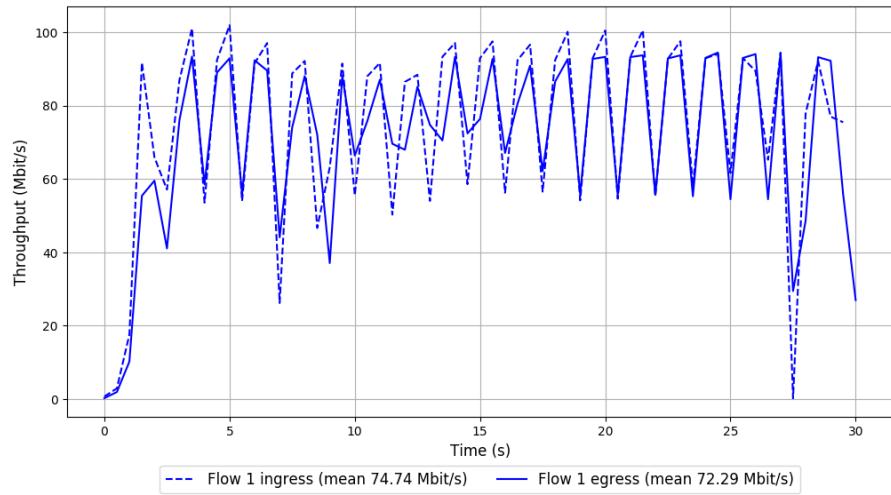


```
Run 10: Statistics of TCP BBR
```

```
Start at: 2018-04-17 08:25:41
End at: 2018-04-17 08:26:11
Local clock offset: 1.834 ms
Remote clock offset: 1.559 ms

# Below is generated by plot.py at 2018-04-17 08:57:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.29 Mbit/s
95th percentile per-packet one-way delay: 164.027 ms
Loss rate: 3.28%
-- Flow 1:
Average throughput: 72.29 Mbit/s
95th percentile per-packet one-way delay: 164.027 ms
Loss rate: 3.28%
```

Run 10: Report of TCP BBR — Data Link

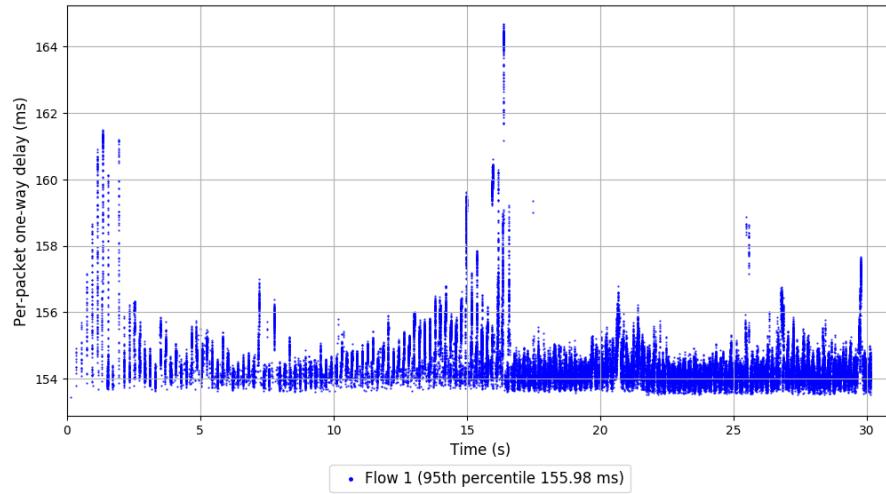
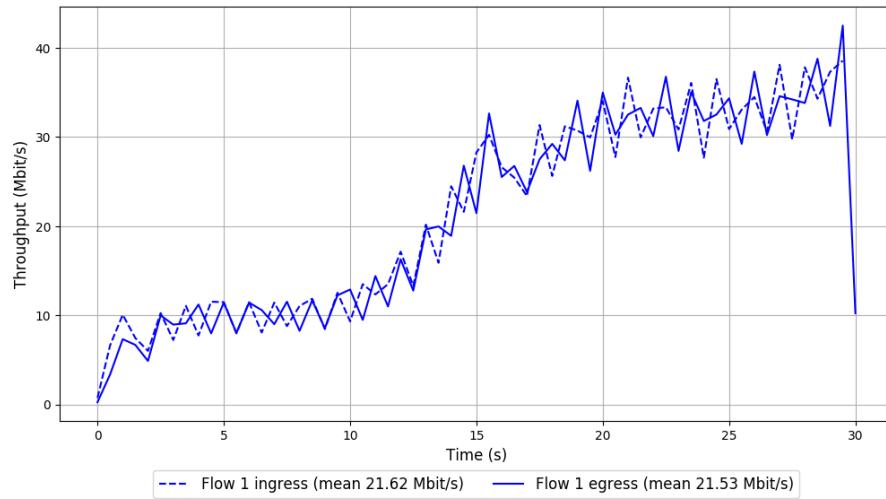


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2018-04-17 05:09:00
End at: 2018-04-17 05:09:30
Local clock offset: 4.2 ms
Remote clock offset: -14.026 ms

# Below is generated by plot.py at 2018-04-17 08:57:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 21.53 Mbit/s
95th percentile per-packet one-way delay: 155.982 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 21.53 Mbit/s
95th percentile per-packet one-way delay: 155.982 ms
Loss rate: 0.41%
```

Run 1: Report of TCP Cubic — Data Link

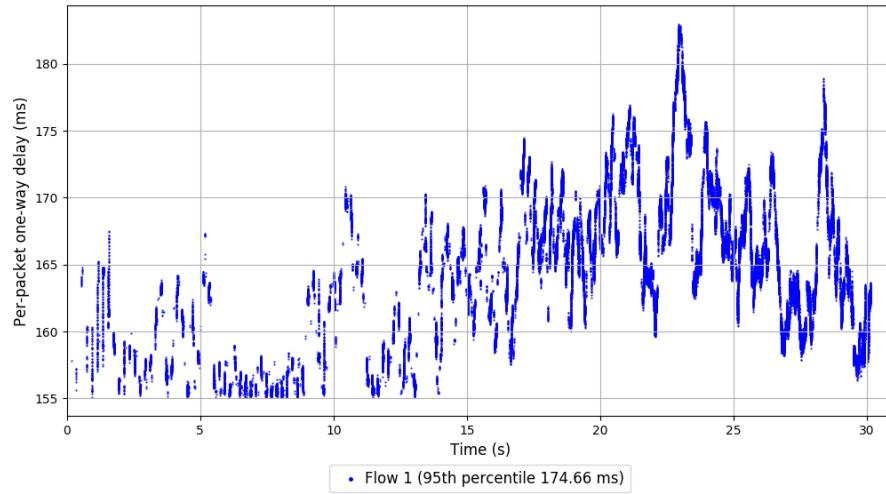
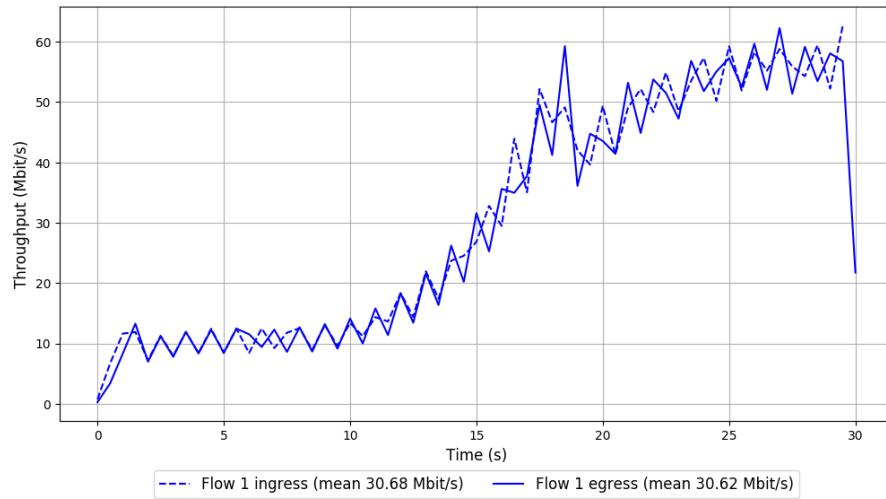


Run 2: Statistics of TCP Cubic

```
Start at: 2018-04-17 05:30:08
End at: 2018-04-17 05:30:38
Local clock offset: 6.94 ms
Remote clock offset: 4.448 ms

# Below is generated by plot.py at 2018-04-17 08:57:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 30.62 Mbit/s
95th percentile per-packet one-way delay: 174.663 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 30.62 Mbit/s
95th percentile per-packet one-way delay: 174.663 ms
Loss rate: 0.17%
```

Run 2: Report of TCP Cubic — Data Link

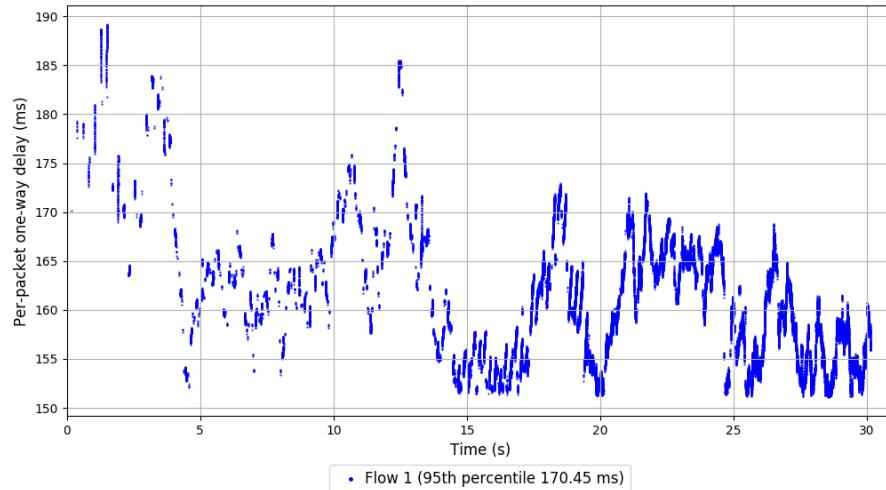
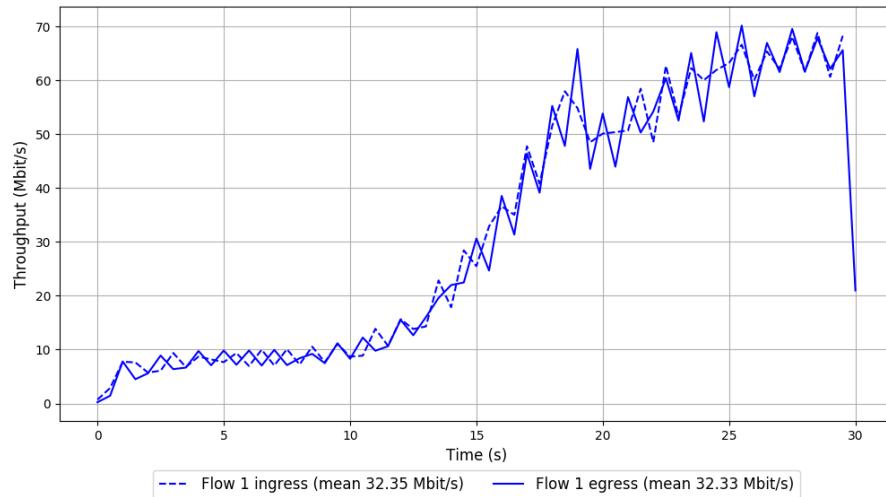


Run 3: Statistics of TCP Cubic

```
Start at: 2018-04-17 05:51:24
End at: 2018-04-17 05:51:54
Local clock offset: 12.973 ms
Remote clock offset: -7.988 ms

# Below is generated by plot.py at 2018-04-17 08:57:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.33 Mbit/s
95th percentile per-packet one-way delay: 170.452 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 32.33 Mbit/s
95th percentile per-packet one-way delay: 170.452 ms
Loss rate: 0.12%
```

Run 3: Report of TCP Cubic — Data Link

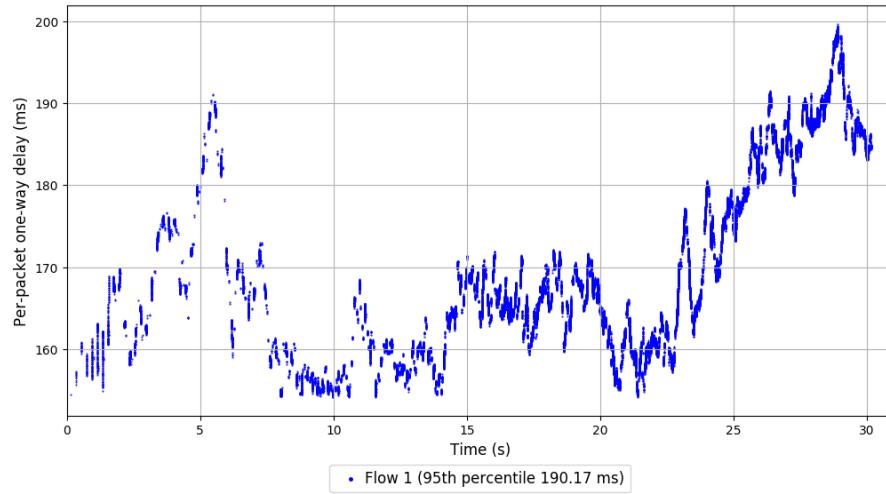
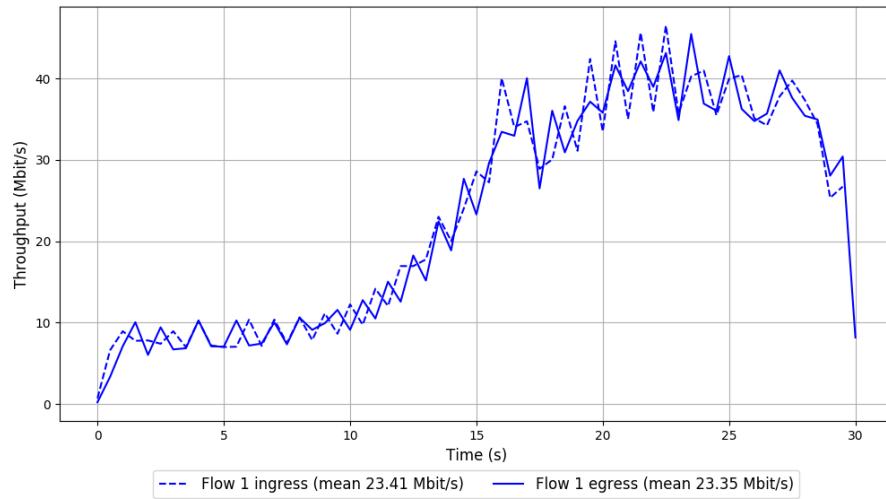


Run 4: Statistics of TCP Cubic

```
Start at: 2018-04-17 06:12:36
End at: 2018-04-17 06:13:06
Local clock offset: 8.937 ms
Remote clock offset: -14.631 ms

# Below is generated by plot.py at 2018-04-17 08:57:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.35 Mbit/s
95th percentile per-packet one-way delay: 190.172 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 23.35 Mbit/s
95th percentile per-packet one-way delay: 190.172 ms
Loss rate: 0.16%
```

Run 4: Report of TCP Cubic — Data Link

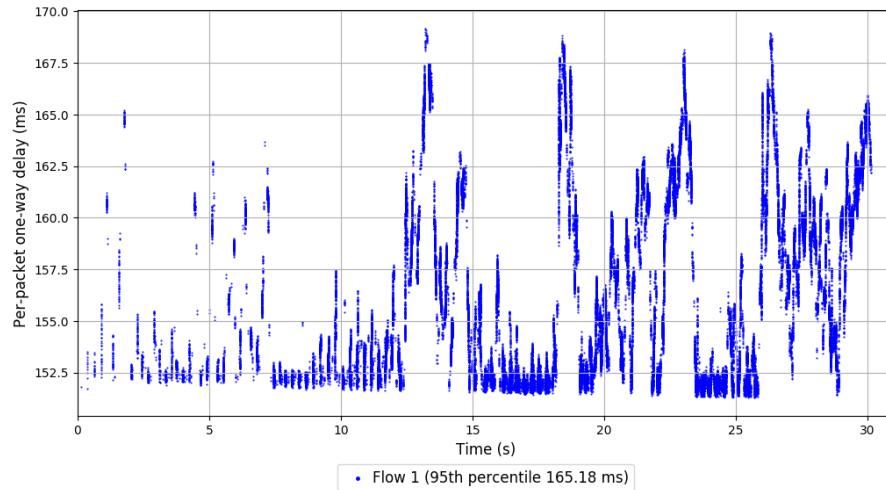
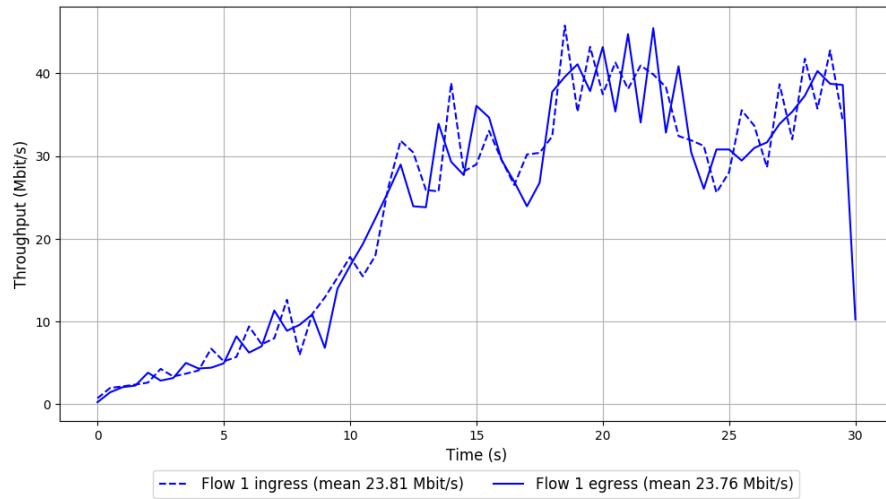


Run 5: Statistics of TCP Cubic

```
Start at: 2018-04-17 06:33:45
End at: 2018-04-17 06:34:15
Local clock offset: 7.718 ms
Remote clock offset: -0.915 ms

# Below is generated by plot.py at 2018-04-17 08:57:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.76 Mbit/s
95th percentile per-packet one-way delay: 165.179 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 23.76 Mbit/s
95th percentile per-packet one-way delay: 165.179 ms
Loss rate: 0.18%
```

Run 5: Report of TCP Cubic — Data Link

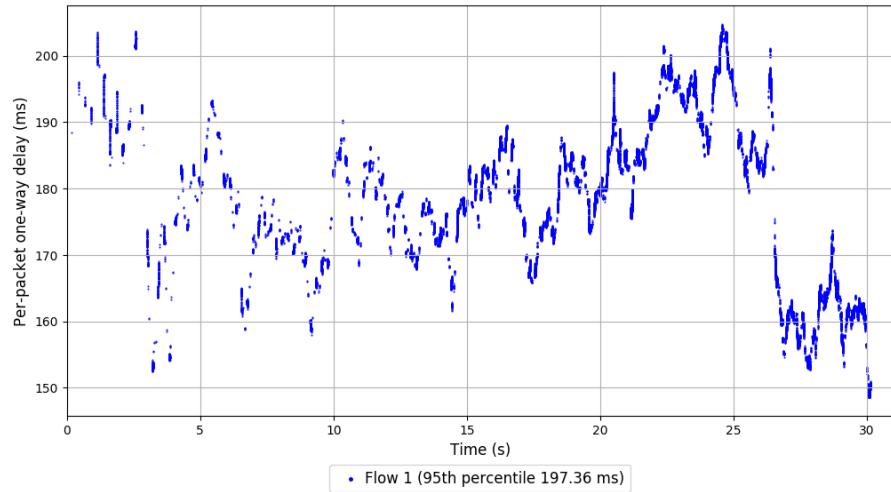
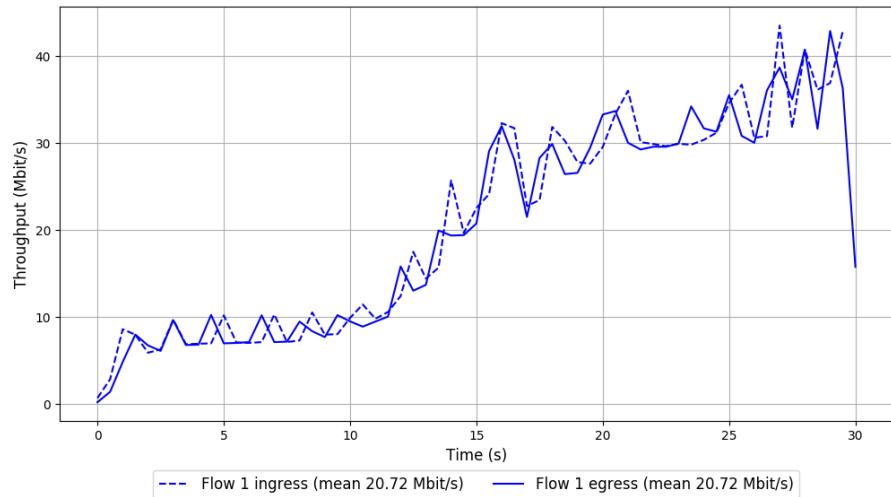


Run 6: Statistics of TCP Cubic

```
Start at: 2018-04-17 07:00:43
End at: 2018-04-17 07:01:13
Local clock offset: -1.91 ms
Remote clock offset: 5.442 ms

# Below is generated by plot.py at 2018-04-17 08:57:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.72 Mbit/s
95th percentile per-packet one-way delay: 197.360 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 20.72 Mbit/s
95th percentile per-packet one-way delay: 197.360 ms
Loss rate: 0.17%
```

Run 6: Report of TCP Cubic — Data Link

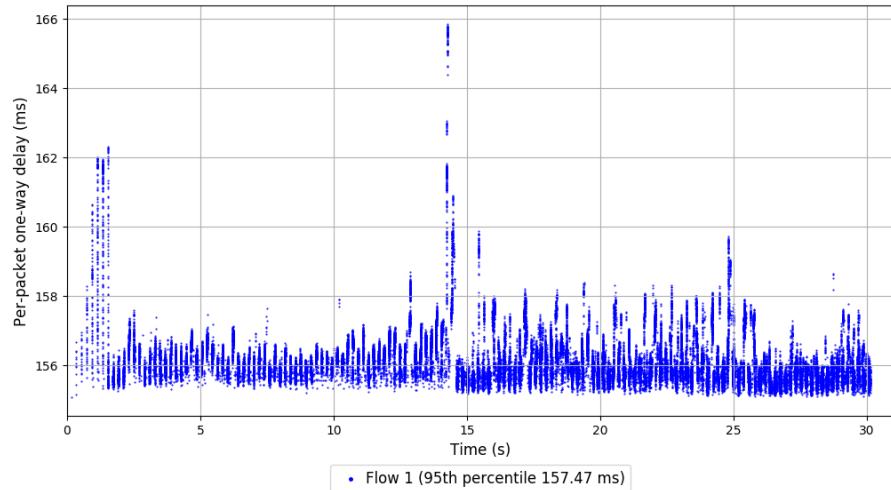
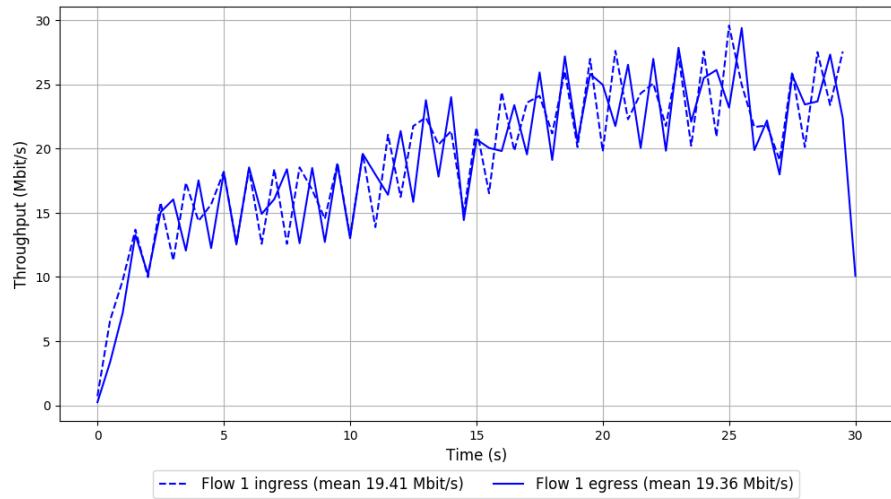


Run 7: Statistics of TCP Cubic

```
Start at: 2018-04-17 07:22:37
End at: 2018-04-17 07:23:07
Local clock offset: 5.993 ms
Remote clock offset: 2.288 ms

# Below is generated by plot.py at 2018-04-17 08:57:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.36 Mbit/s
95th percentile per-packet one-way delay: 157.465 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 19.36 Mbit/s
95th percentile per-packet one-way delay: 157.465 ms
Loss rate: 0.23%
```

Run 7: Report of TCP Cubic — Data Link

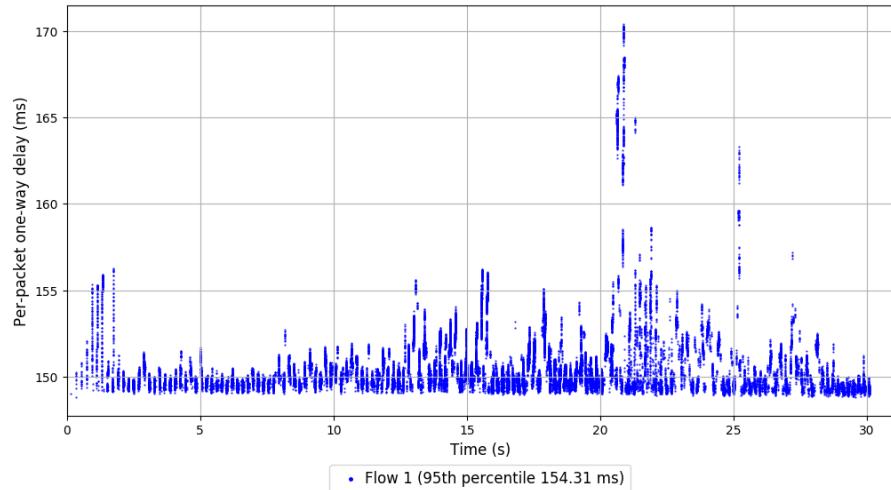
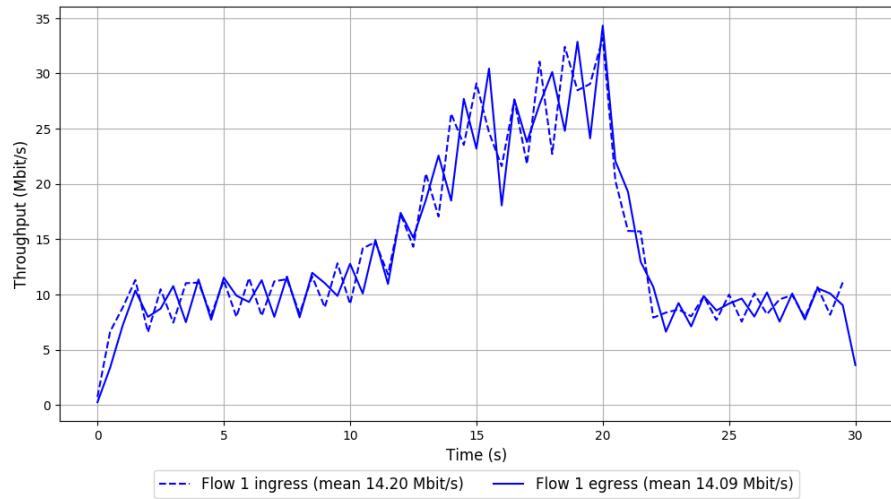


Run 8: Statistics of TCP Cubic

```
Start at: 2018-04-17 07:44:30
End at: 2018-04-17 07:45:00
Local clock offset: 7.119 ms
Remote clock offset: 6.664 ms

# Below is generated by plot.py at 2018-04-17 08:57:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.09 Mbit/s
95th percentile per-packet one-way delay: 154.305 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 14.09 Mbit/s
95th percentile per-packet one-way delay: 154.305 ms
Loss rate: 0.79%
```

Run 8: Report of TCP Cubic — Data Link

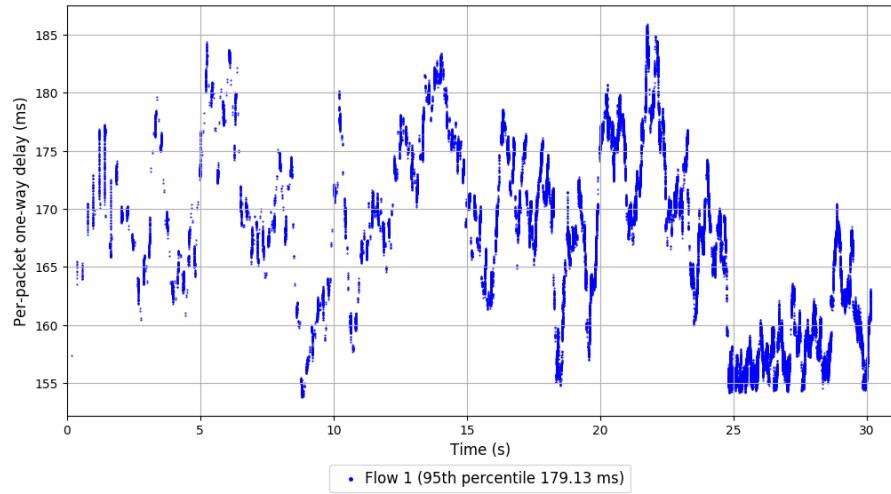
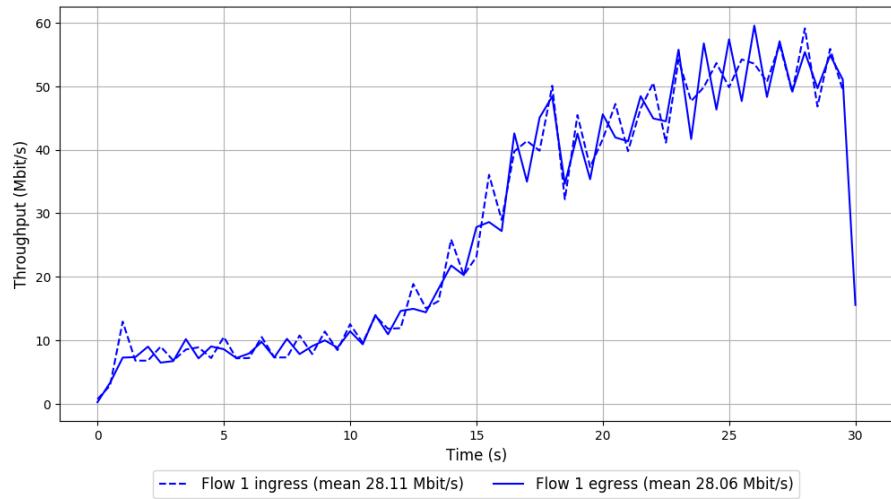


Run 9: Statistics of TCP Cubic

```
Start at: 2018-04-17 08:07:01
End at: 2018-04-17 08:07:31
Local clock offset: 6.409 ms
Remote clock offset: 14.541 ms

# Below is generated by plot.py at 2018-04-17 08:57:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.06 Mbit/s
95th percentile per-packet one-way delay: 179.131 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 28.06 Mbit/s
95th percentile per-packet one-way delay: 179.131 ms
Loss rate: 0.17%
```

Run 9: Report of TCP Cubic — Data Link

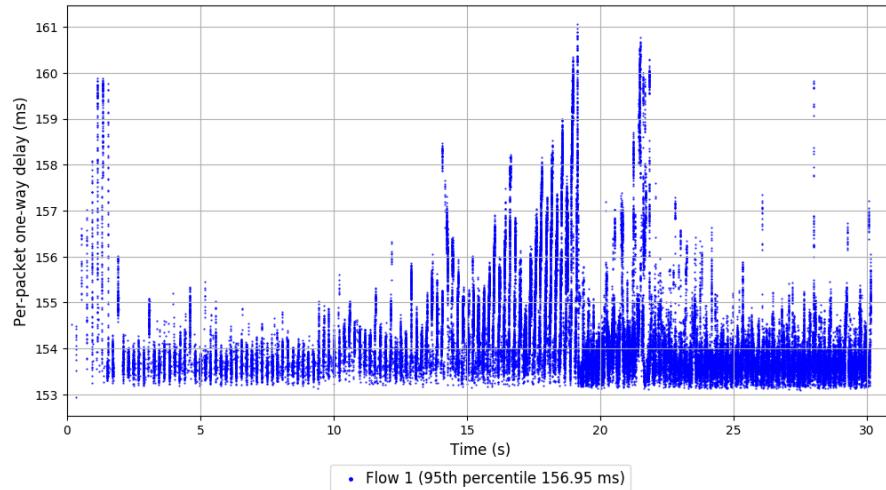
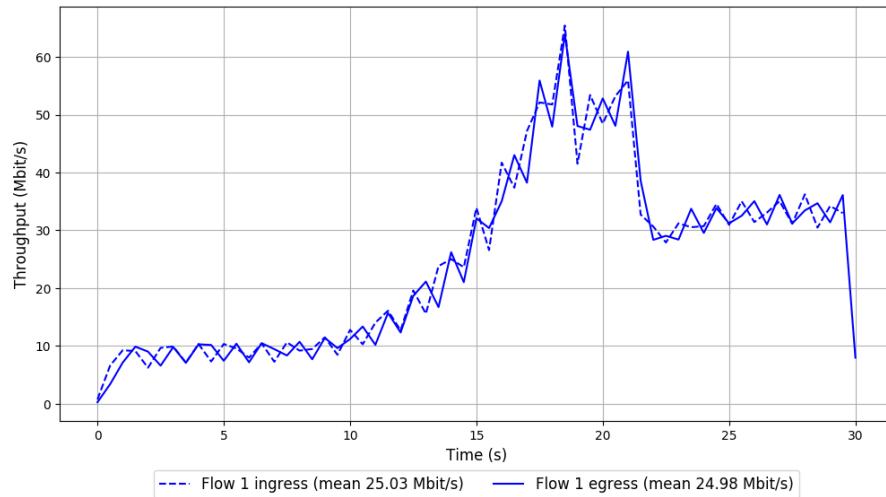


```
Run 10: Statistics of TCP Cubic
```

```
Start at: 2018-04-17 08:28:11
End at: 2018-04-17 08:28:42
Local clock offset: 1.171 ms
Remote clock offset: 1.314 ms

# Below is generated by plot.py at 2018-04-17 08:57:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.98 Mbit/s
95th percentile per-packet one-way delay: 156.946 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 24.98 Mbit/s
95th percentile per-packet one-way delay: 156.946 ms
Loss rate: 0.22%
```

Run 10: Report of TCP Cubic — Data Link

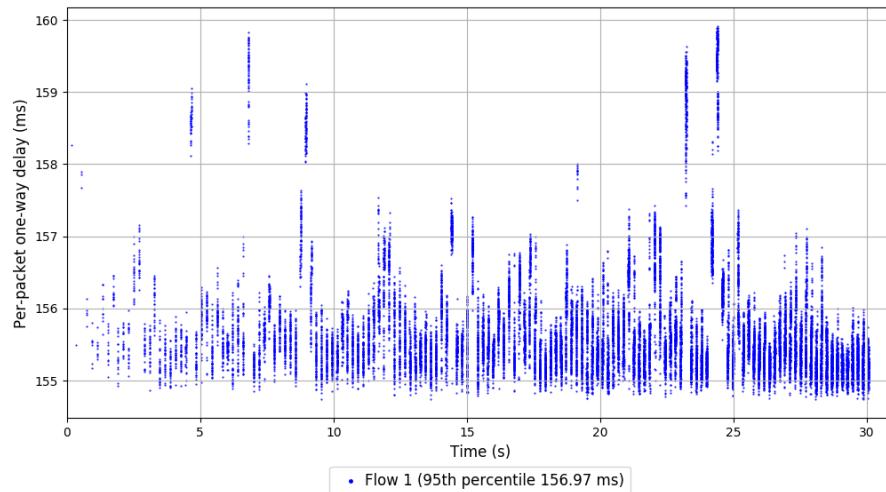
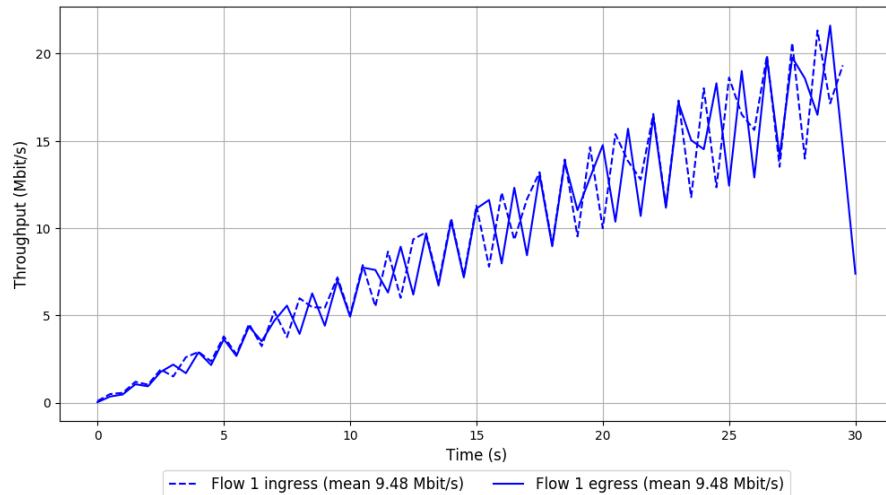


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2018-04-17 05:11:26
End at: 2018-04-17 05:11:56
Local clock offset: 3.628 ms
Remote clock offset: -14.106 ms

# Below is generated by plot.py at 2018-04-17 08:57:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.48 Mbit/s
95th percentile per-packet one-way delay: 156.975 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.48 Mbit/s
95th percentile per-packet one-way delay: 156.975 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

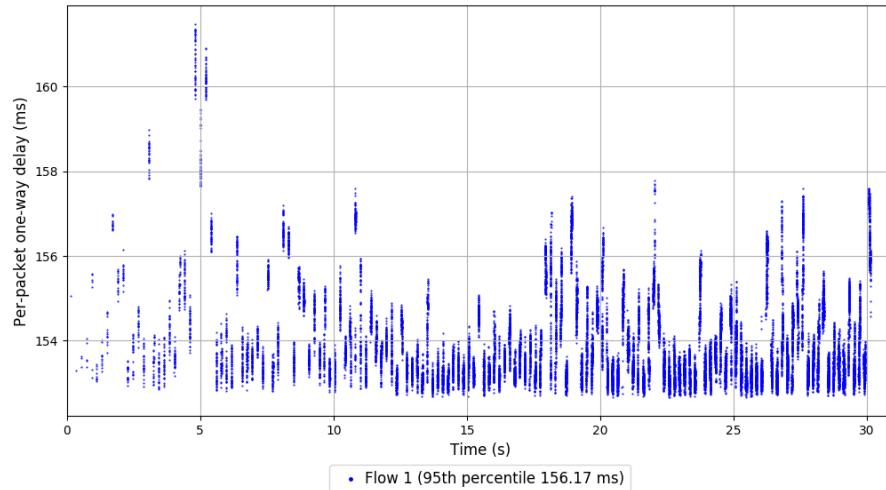
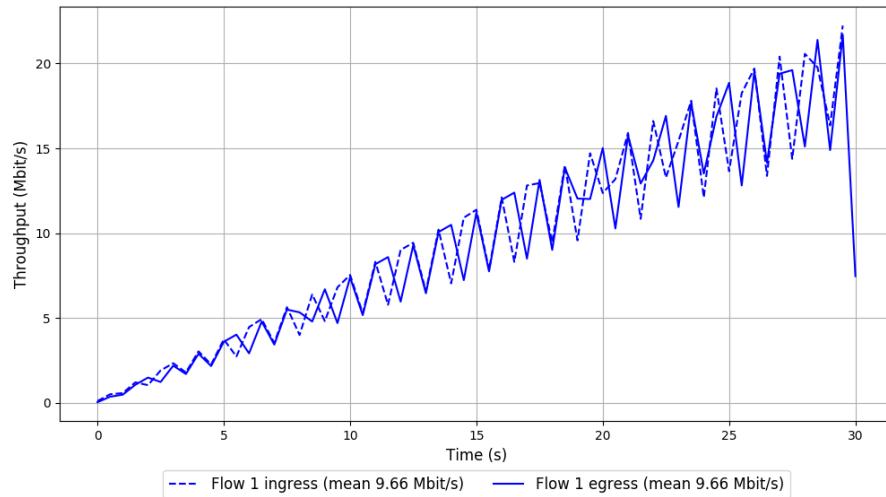


Run 2: Statistics of LEDBAT

```
Start at: 2018-04-17 05:32:35
End at: 2018-04-17 05:33:05
Local clock offset: 8.183 ms
Remote clock offset: 5.414 ms

# Below is generated by plot.py at 2018-04-17 08:57:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.66 Mbit/s
95th percentile per-packet one-way delay: 156.169 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.66 Mbit/s
95th percentile per-packet one-way delay: 156.169 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link

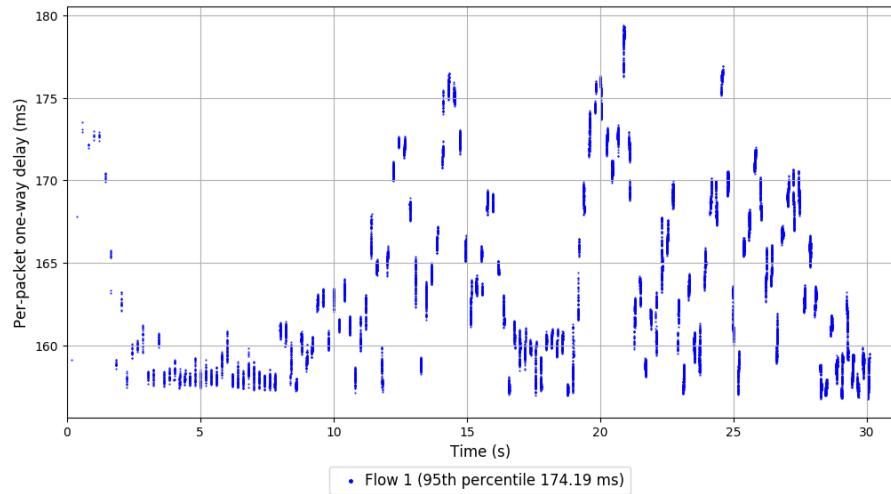
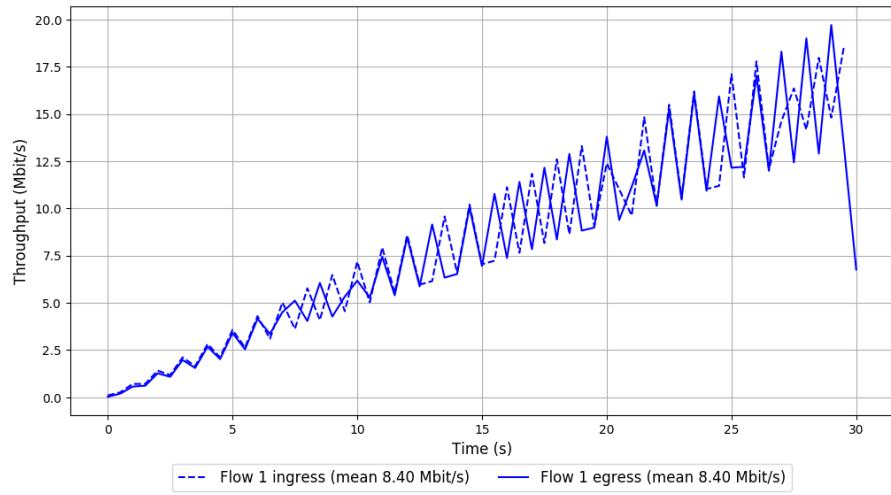


```
Run 3: Statistics of LEDBAT
```

```
Start at: 2018-04-17 05:53:51
End at: 2018-04-17 05:54:21
Local clock offset: 13.115 ms
Remote clock offset: -3.744 ms

# Below is generated by plot.py at 2018-04-17 08:57:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.40 Mbit/s
95th percentile per-packet one-way delay: 174.187 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.40 Mbit/s
95th percentile per-packet one-way delay: 174.187 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

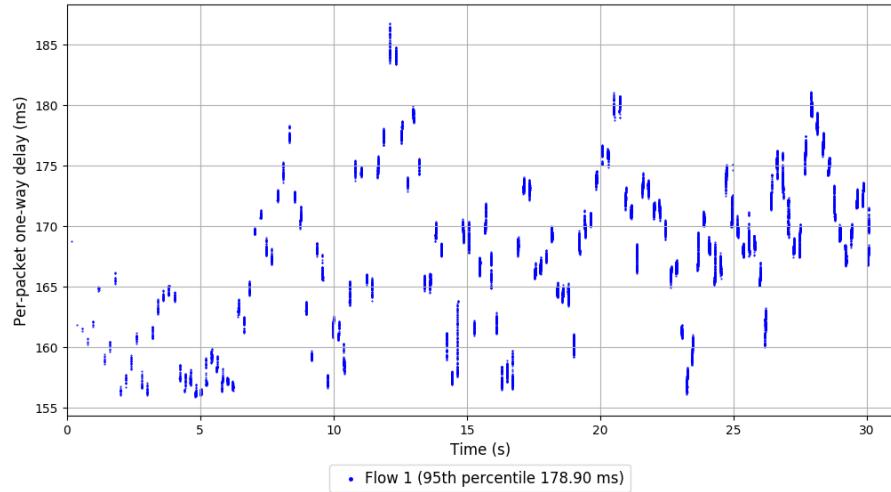
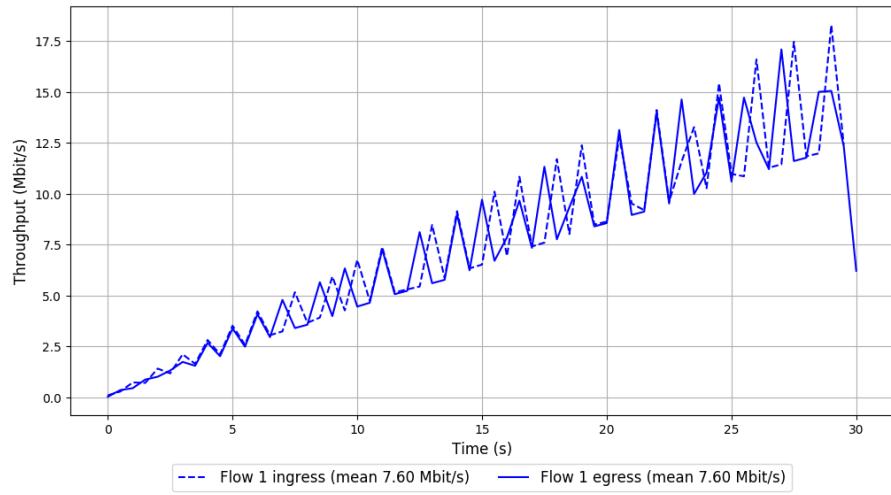


Run 4: Statistics of LEDBAT

```
Start at: 2018-04-17 06:15:03
End at: 2018-04-17 06:15:33
Local clock offset: 8.839 ms
Remote clock offset: -14.977 ms

# Below is generated by plot.py at 2018-04-17 08:57:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.60 Mbit/s
95th percentile per-packet one-way delay: 178.903 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.60 Mbit/s
95th percentile per-packet one-way delay: 178.903 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

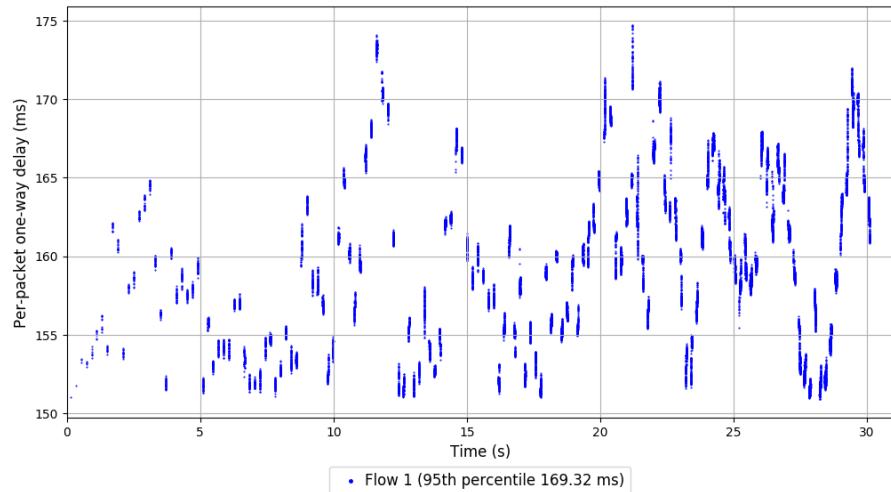
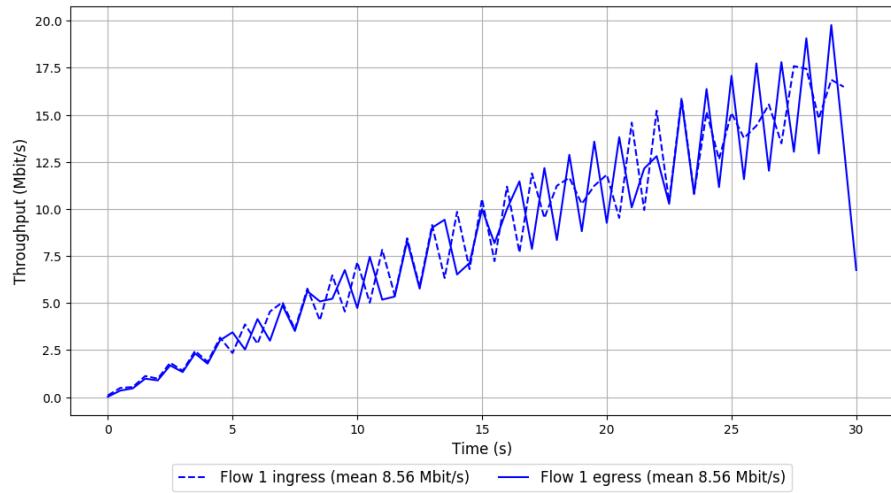


Run 5: Statistics of LEDBAT

```
Start at: 2018-04-17 06:41:43
End at: 2018-04-17 06:42:13
Local clock offset: 2.737 ms
Remote clock offset: -1.689 ms

# Below is generated by plot.py at 2018-04-17 08:57:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.56 Mbit/s
95th percentile per-packet one-way delay: 169.322 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.56 Mbit/s
95th percentile per-packet one-way delay: 169.322 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

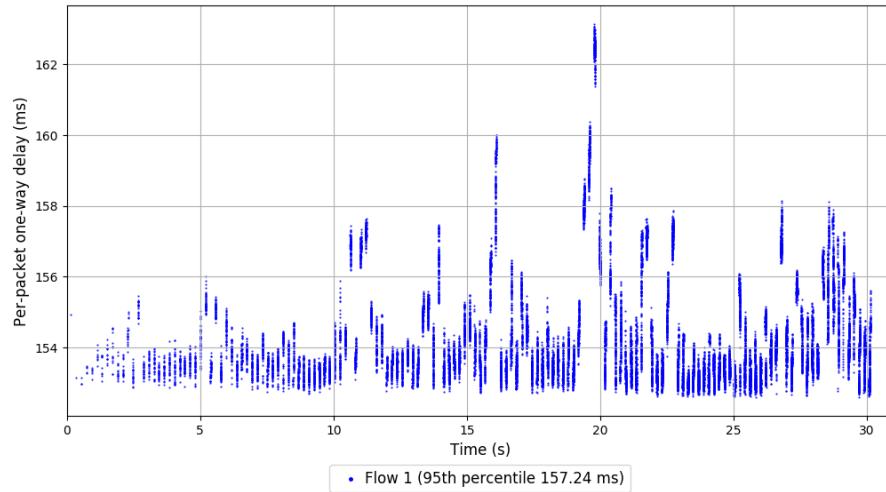
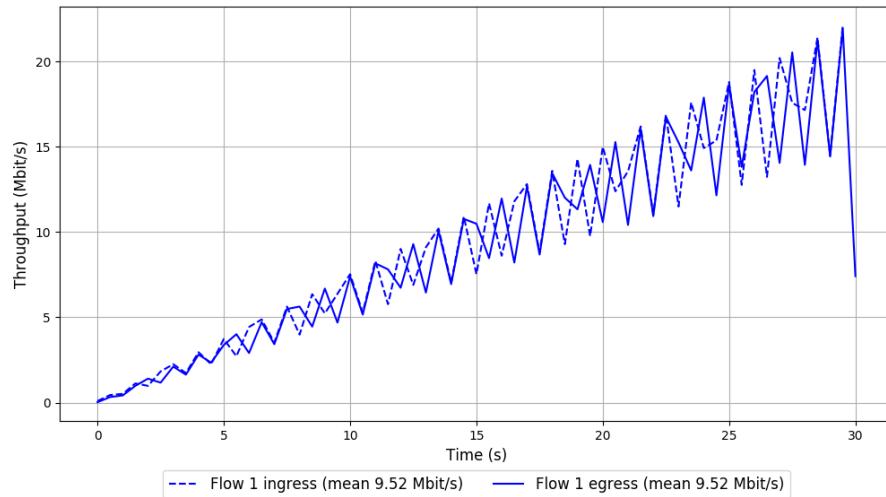


Run 6: Statistics of LEDBAT

```
Start at: 2018-04-17 07:03:09
End at: 2018-04-17 07:03:39
Local clock offset: -2.158 ms
Remote clock offset: 11.157 ms

# Below is generated by plot.py at 2018-04-17 08:57:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.52 Mbit/s
95th percentile per-packet one-way delay: 157.241 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.52 Mbit/s
95th percentile per-packet one-way delay: 157.241 ms
Loss rate: 0.00%
```

Run 6: Report of LEDBAT — Data Link

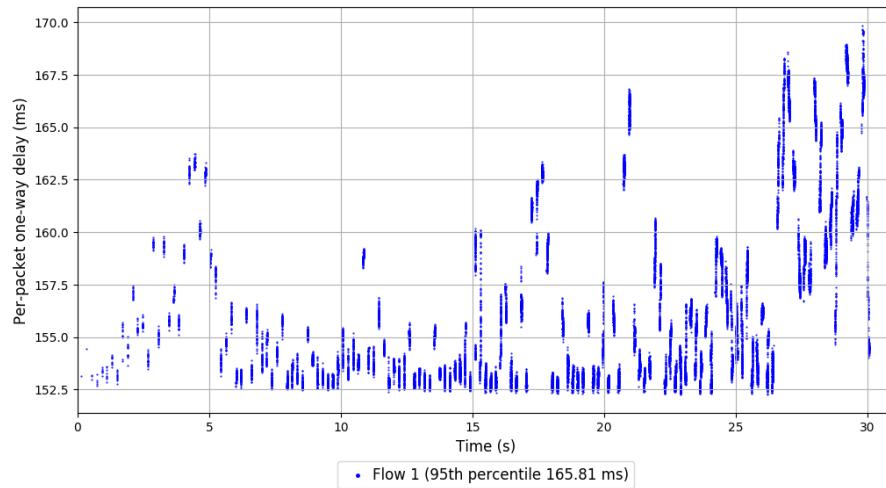
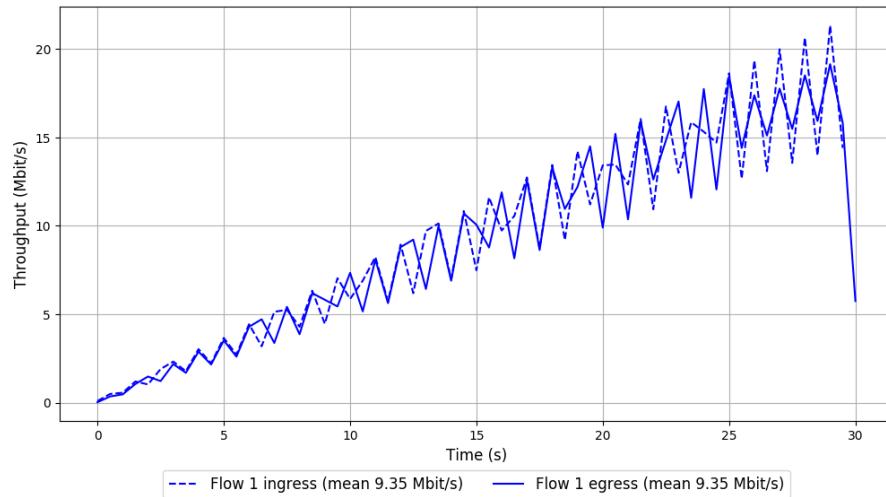


Run 7: Statistics of LEDBAT

```
Start at: 2018-04-17 07:25:02
End at: 2018-04-17 07:25:32
Local clock offset: 6.22 ms
Remote clock offset: 3.576 ms

# Below is generated by plot.py at 2018-04-17 08:57:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.35 Mbit/s
95th percentile per-packet one-way delay: 165.813 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.35 Mbit/s
95th percentile per-packet one-way delay: 165.813 ms
Loss rate: 0.00%
```

Run 7: Report of LEDBAT — Data Link

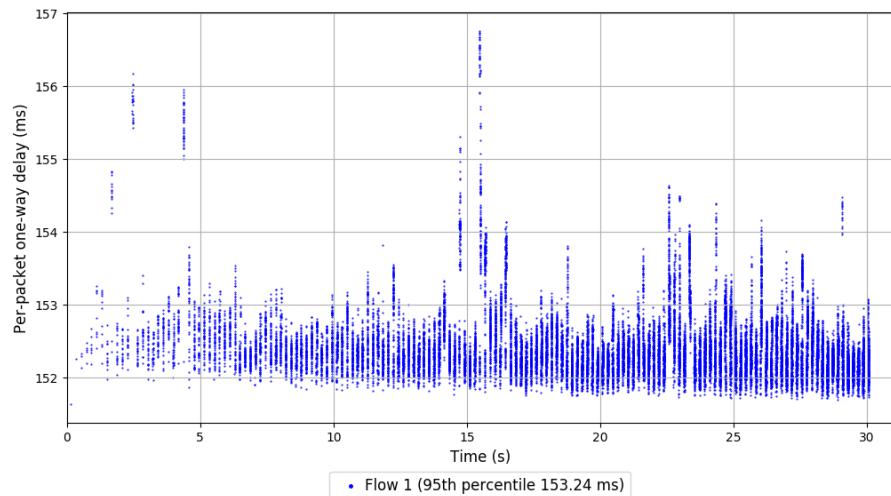
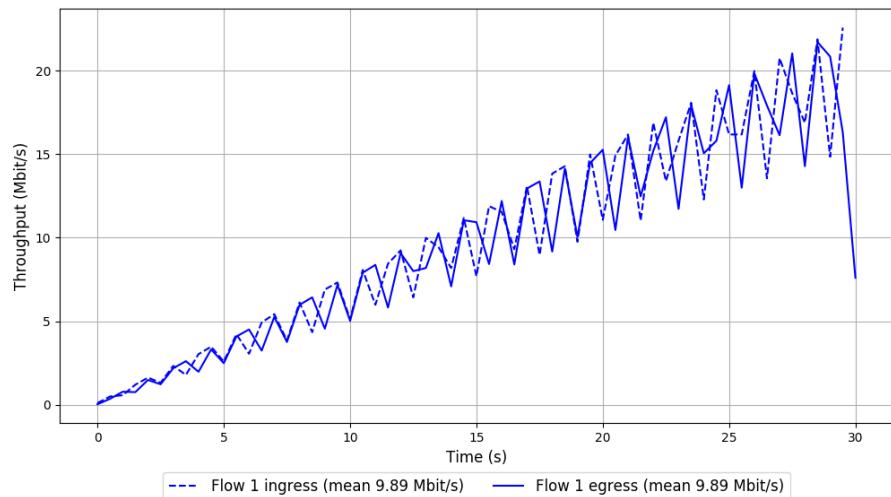


```
Run 8: Statistics of LEDBAT
```

```
Start at: 2018-04-17 07:47:01
End at: 2018-04-17 07:47:31
Local clock offset: 6.934 ms
Remote clock offset: 10.941 ms

# Below is generated by plot.py at 2018-04-17 08:57:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.89 Mbit/s
95th percentile per-packet one-way delay: 153.243 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.89 Mbit/s
95th percentile per-packet one-way delay: 153.243 ms
Loss rate: 0.00%
```

Run 8: Report of LEDBAT — Data Link

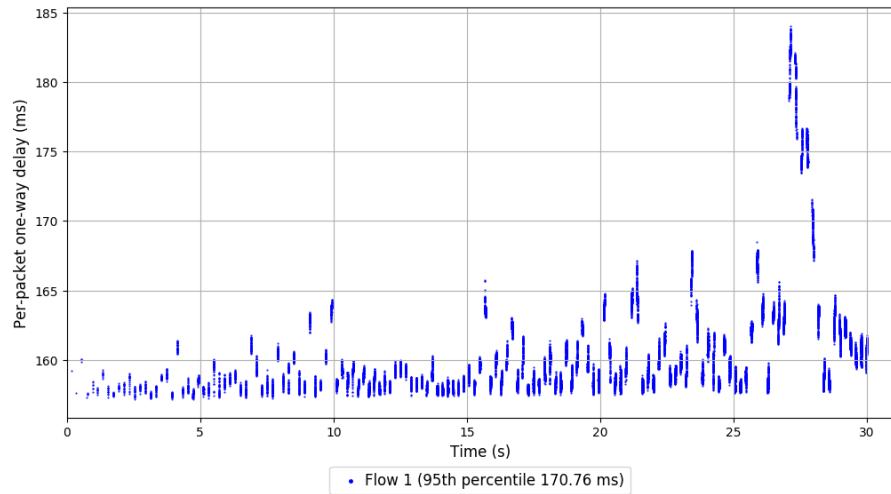
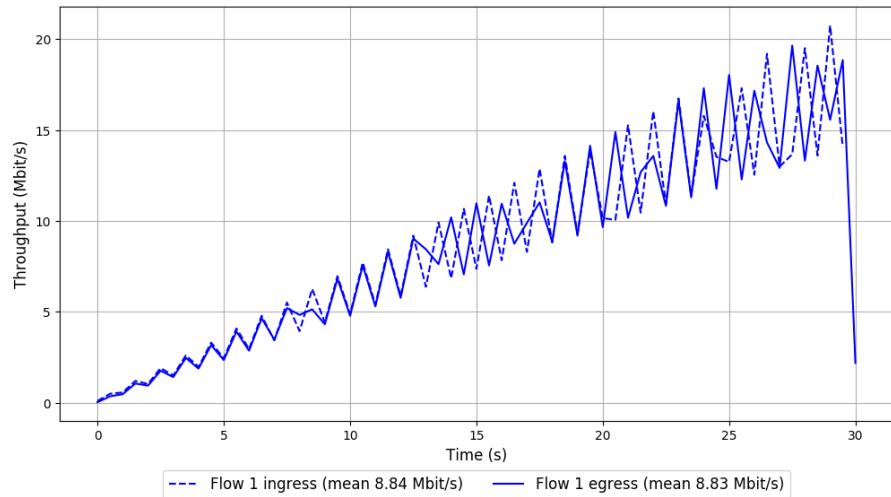


Run 9: Statistics of LEDBAT

```
Start at: 2018-04-17 08:09:27
End at: 2018-04-17 08:09:57
Local clock offset: 6.46 ms
Remote clock offset: 10.624 ms

# Below is generated by plot.py at 2018-04-17 08:57:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.83 Mbit/s
95th percentile per-packet one-way delay: 170.764 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.83 Mbit/s
95th percentile per-packet one-way delay: 170.764 ms
Loss rate: 0.00%
```

Run 9: Report of LEDBAT — Data Link



```
Run 10: Statistics of LEDBAT
```

```
Start at: 2018-04-17 08:30:21
```

```
End at: 2018-04-17 08:30:51
```

```
Remote clock offset: 1.135 ms
```

```
# Below is generated by plot.py at 2018-04-17 08:57:05
```

```
# Datalink statistics
```

```
-- Total of 1 flow:
```

```
Average throughput: 9.34 Mbit/s
```

```
95th percentile per-packet one-way delay: 158.864 ms
```

```
Loss rate: 0.00%
```

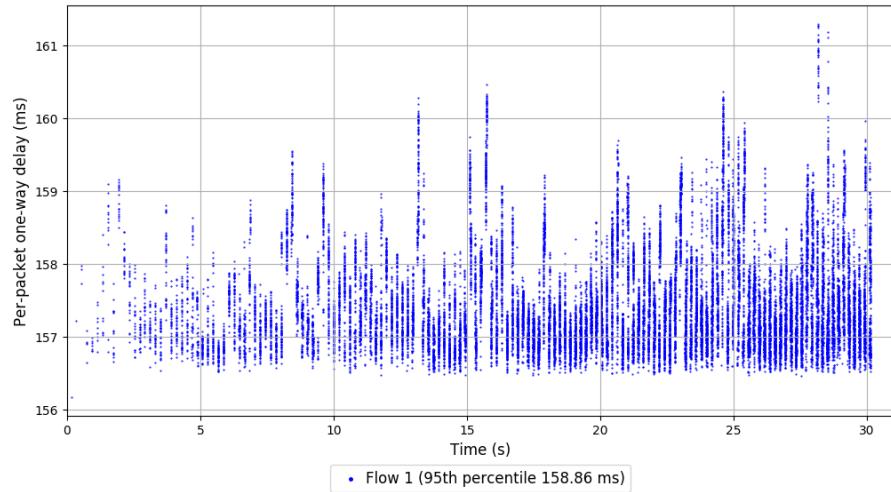
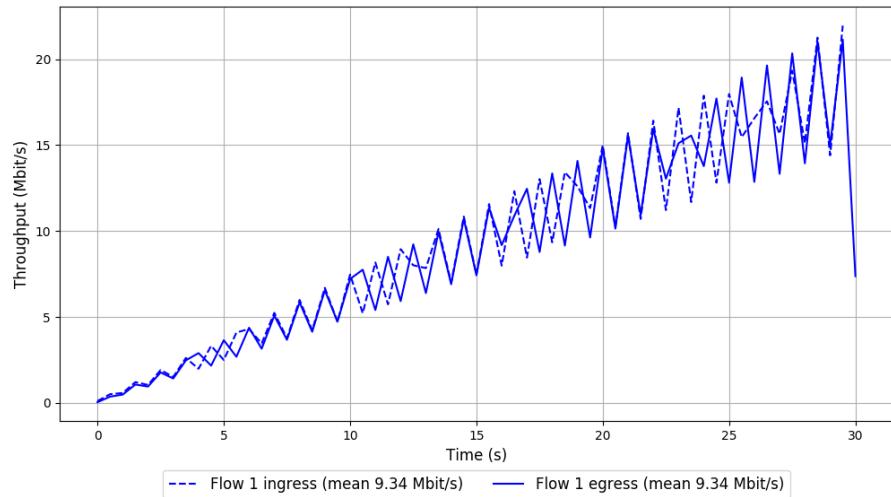
```
-- Flow 1:
```

```
Average throughput: 9.34 Mbit/s
```

```
95th percentile per-packet one-way delay: 158.864 ms
```

```
Loss rate: 0.00%
```

Run 10: Report of LEDBAT — Data Link

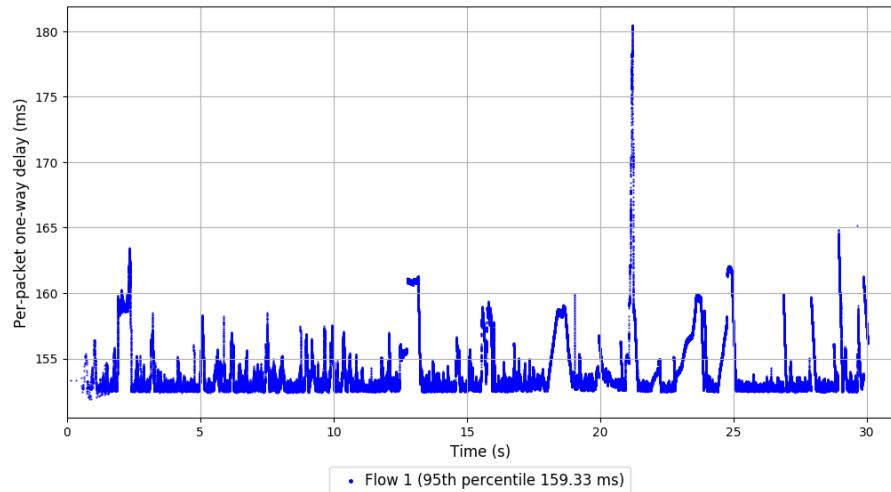
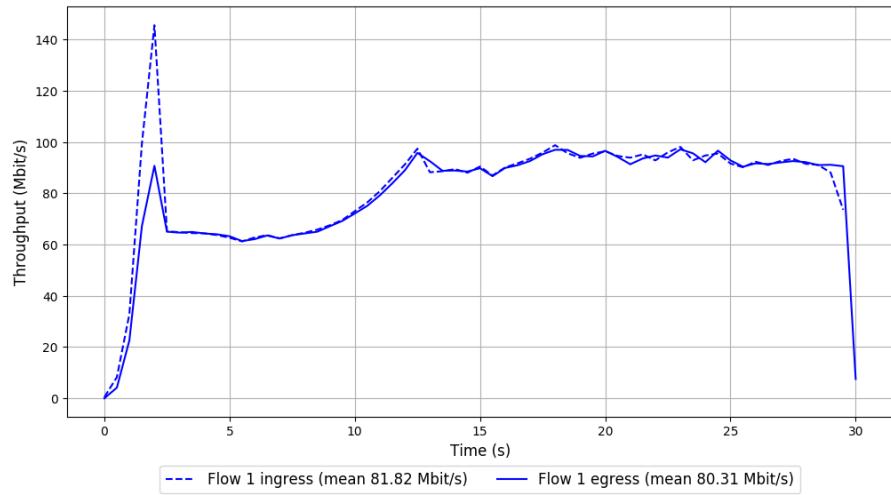


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2018-04-17 05:07:45
End at: 2018-04-17 05:08:15
Local clock offset: 4.562 ms
Remote clock offset: -13.947 ms

# Below is generated by plot.py at 2018-04-17 08:58:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.31 Mbit/s
95th percentile per-packet one-way delay: 159.329 ms
Loss rate: 1.83%
-- Flow 1:
Average throughput: 80.31 Mbit/s
95th percentile per-packet one-way delay: 159.329 ms
Loss rate: 1.83%
```

Run 1: Report of PCC-Allegro — Data Link

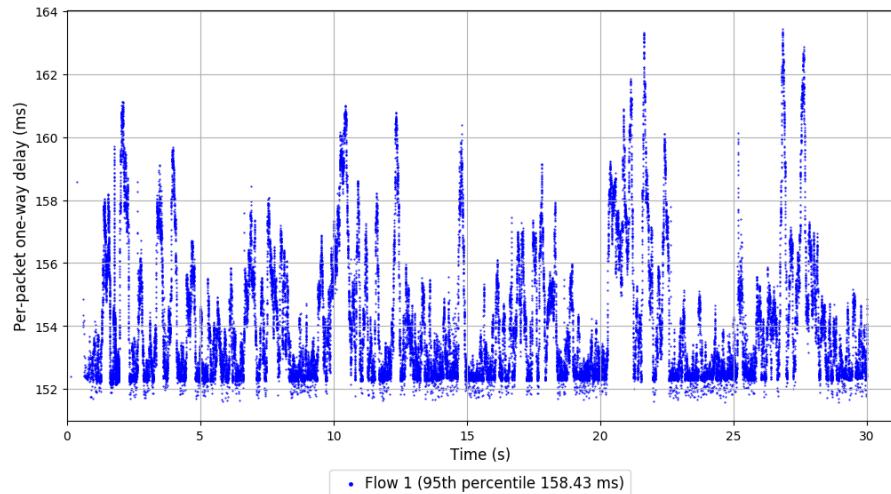
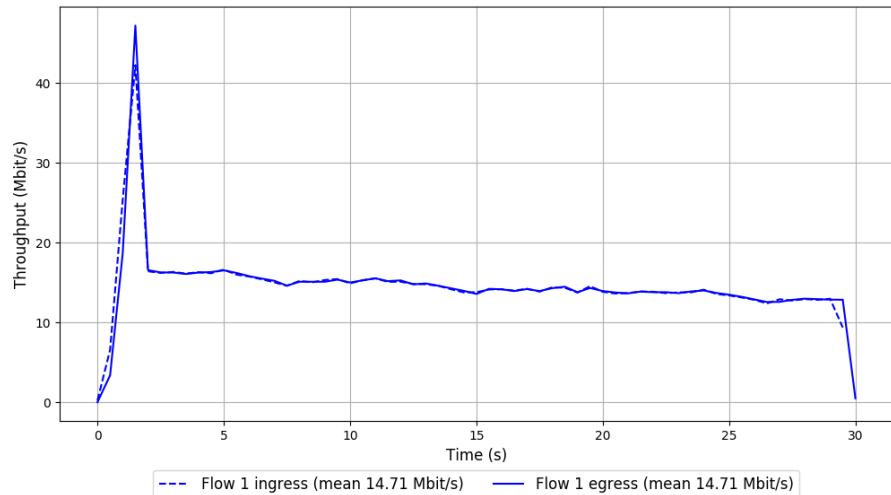


Run 2: Statistics of PCC-Allegro

```
Start at: 2018-04-17 05:28:55
End at: 2018-04-17 05:29:25
Local clock offset: 6.33 ms
Remote clock offset: 3.894 ms

# Below is generated by plot.py at 2018-04-17 08:58:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.71 Mbit/s
95th percentile per-packet one-way delay: 158.430 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 14.71 Mbit/s
95th percentile per-packet one-way delay: 158.430 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Allegro — Data Link

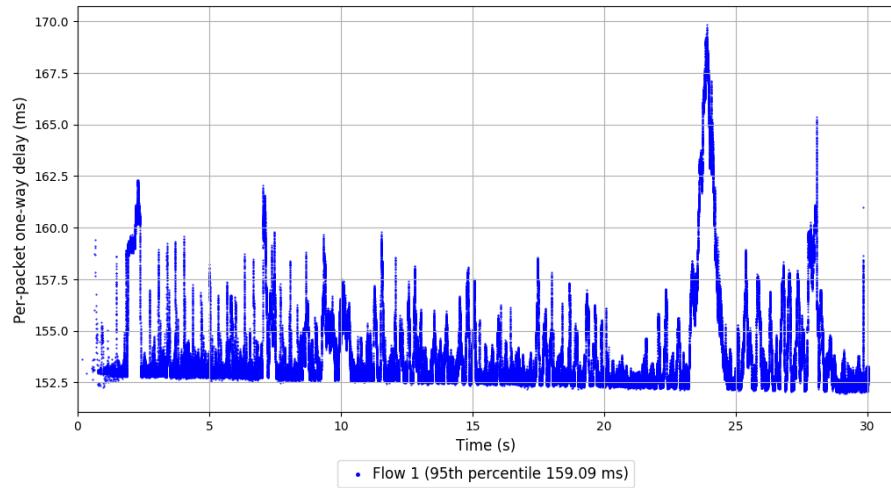
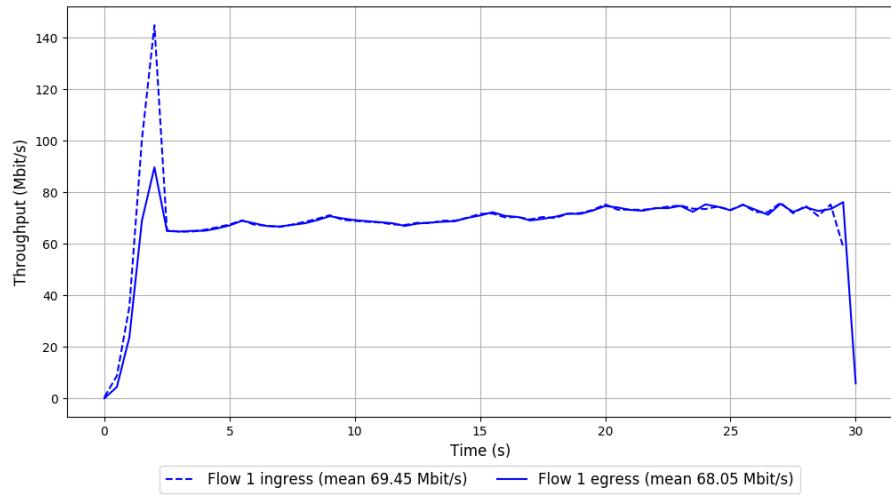


Run 3: Statistics of PCC-Allegro

```
Start at: 2018-04-17 05:50:09
End at: 2018-04-17 05:50:39
Local clock offset: 12.736 ms
Remote clock offset: -9.276 ms

# Below is generated by plot.py at 2018-04-17 08:58:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.05 Mbit/s
95th percentile per-packet one-way delay: 159.087 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 68.05 Mbit/s
95th percentile per-packet one-way delay: 159.087 ms
Loss rate: 2.01%
```

Run 3: Report of PCC-Allegro — Data Link

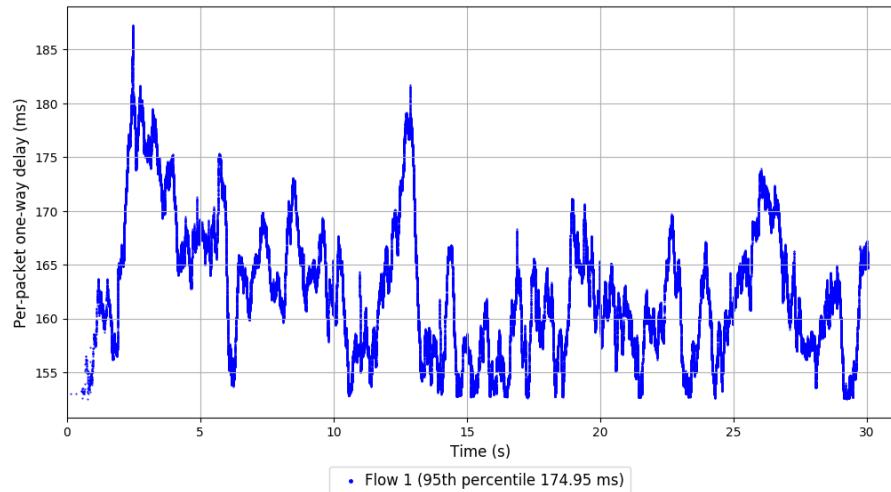
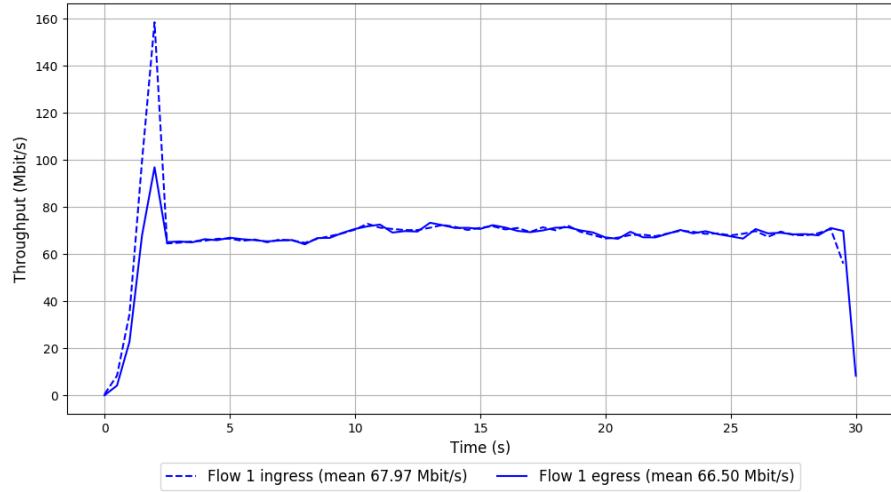


Run 4: Statistics of PCC-Allegro

```
Start at: 2018-04-17 06:11:21
End at: 2018-04-17 06:11:51
Local clock offset: 9.31 ms
Remote clock offset: -16.548 ms

# Below is generated by plot.py at 2018-04-17 08:58:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.50 Mbit/s
95th percentile per-packet one-way delay: 174.948 ms
Loss rate: 2.12%
-- Flow 1:
Average throughput: 66.50 Mbit/s
95th percentile per-packet one-way delay: 174.948 ms
Loss rate: 2.12%
```

Run 4: Report of PCC-Allegro — Data Link

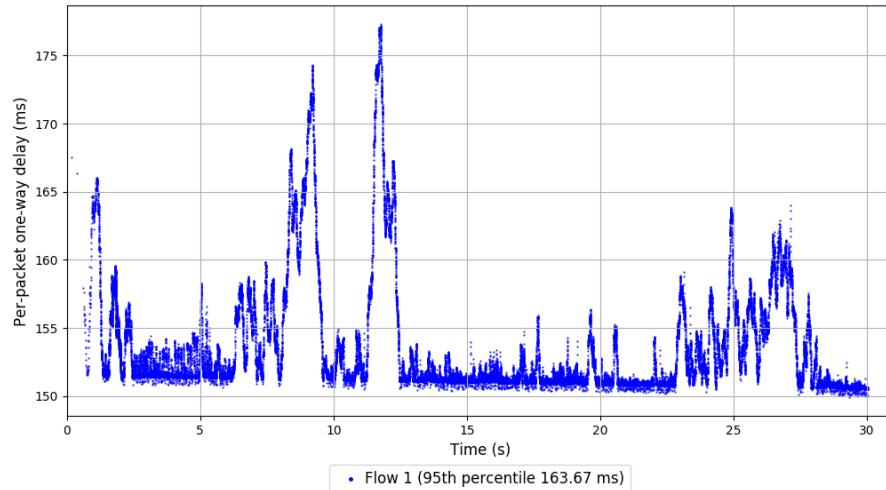
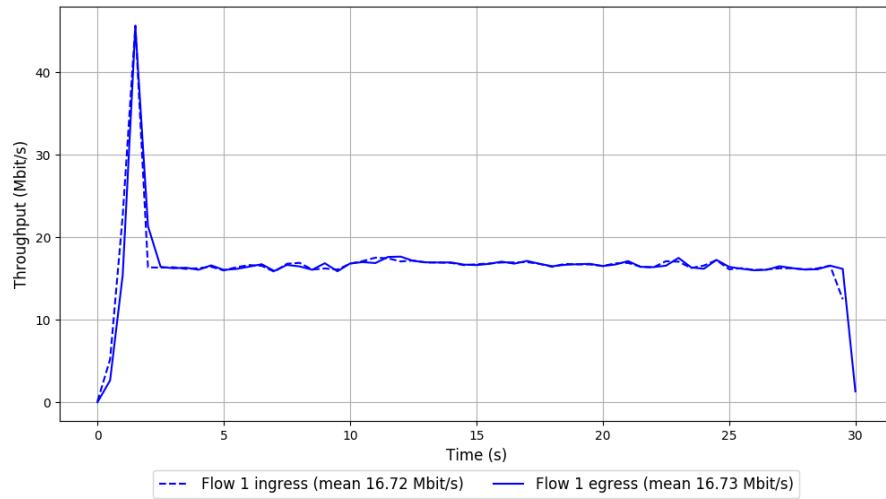


Run 5: Statistics of PCC-Allegro

```
Start at: 2018-04-17 06:32:30
End at: 2018-04-17 06:33:00
Local clock offset: 8.63 ms
Remote clock offset: -2.035 ms

# Below is generated by plot.py at 2018-04-17 08:58:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.73 Mbit/s
95th percentile per-packet one-way delay: 163.667 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 16.73 Mbit/s
95th percentile per-packet one-way delay: 163.667 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Allegro — Data Link

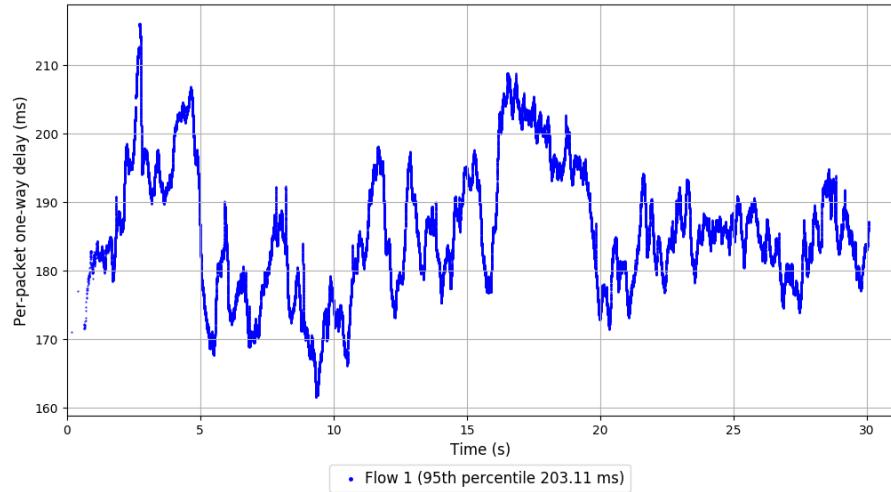
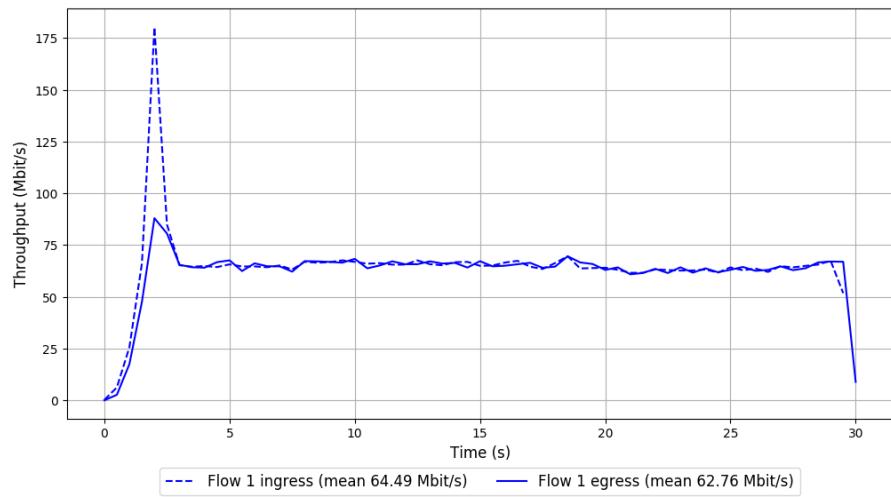


Run 6: Statistics of PCC-Allegro

```
Start at: 2018-04-17 06:59:27
End at: 2018-04-17 06:59:57
Local clock offset: -1.754 ms
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-04-17 08:58:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.76 Mbit/s
95th percentile per-packet one-way delay: 203.111 ms
Loss rate: 2.65%
-- Flow 1:
Average throughput: 62.76 Mbit/s
95th percentile per-packet one-way delay: 203.111 ms
Loss rate: 2.65%
```

Run 6: Report of PCC-Allegro — Data Link

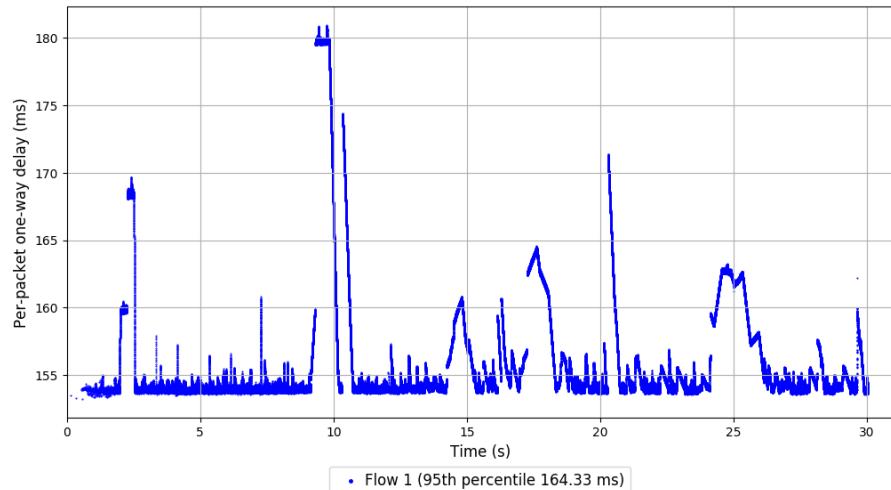
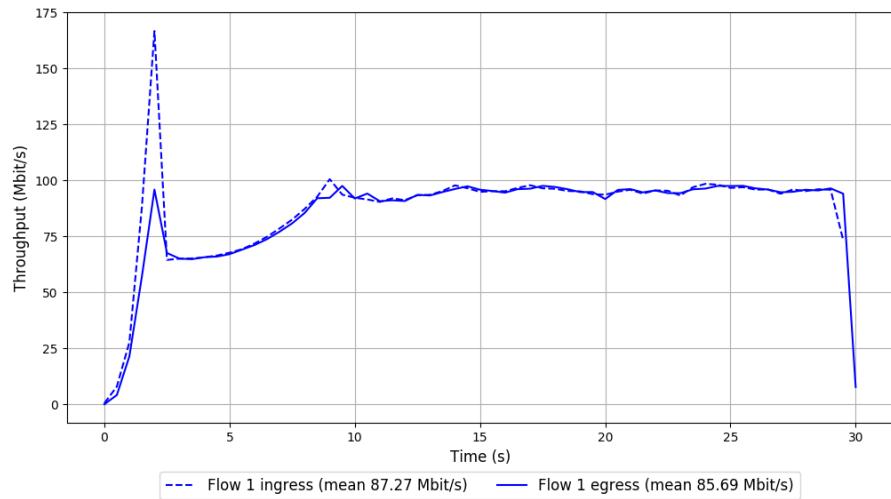


Run 7: Statistics of PCC-Allegro

```
Start at: 2018-04-17 07:21:21
End at: 2018-04-17 07:21:51
Local clock offset: 5.555 ms
Remote clock offset: 1.552 ms

# Below is generated by plot.py at 2018-04-17 08:58:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.69 Mbit/s
95th percentile per-packet one-way delay: 164.333 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 85.69 Mbit/s
95th percentile per-packet one-way delay: 164.333 ms
Loss rate: 1.81%
```

Run 7: Report of PCC-Allegro — Data Link

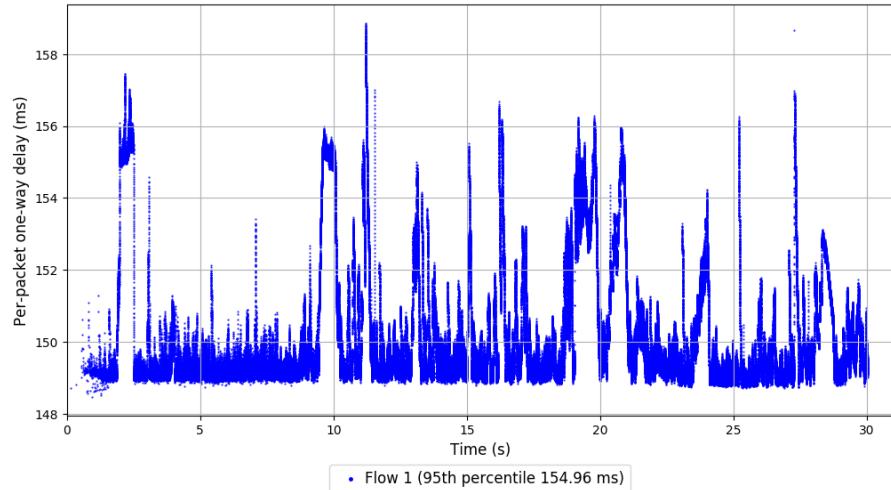
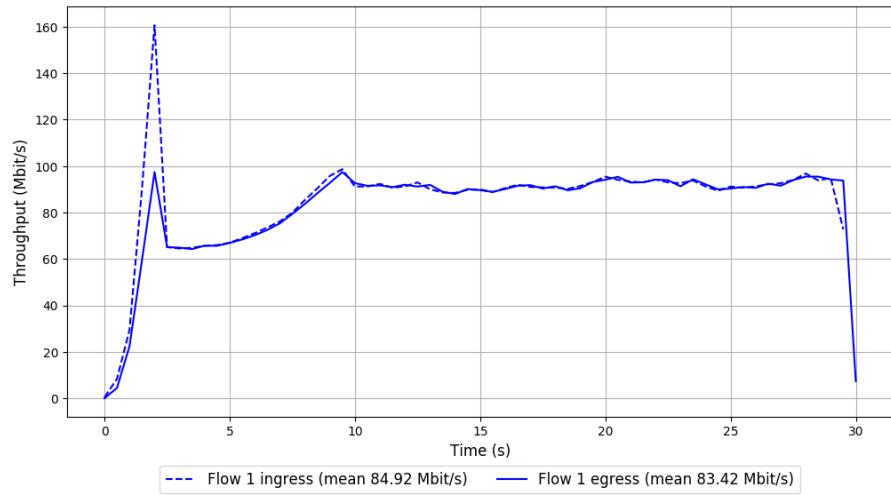


Run 8: Statistics of PCC-Allegro

```
Start at: 2018-04-17 07:43:14
End at: 2018-04-17 07:43:44
Local clock offset: 7.133 ms
Remote clock offset: 6.068 ms

# Below is generated by plot.py at 2018-04-17 08:58:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.42 Mbit/s
95th percentile per-packet one-way delay: 154.962 ms
Loss rate: 1.77%
-- Flow 1:
Average throughput: 83.42 Mbit/s
95th percentile per-packet one-way delay: 154.962 ms
Loss rate: 1.77%
```

Run 8: Report of PCC-Allegro — Data Link

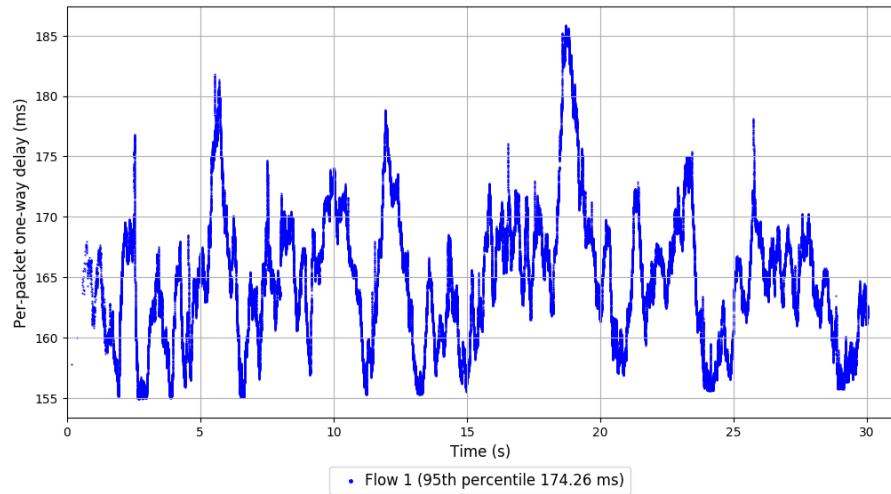
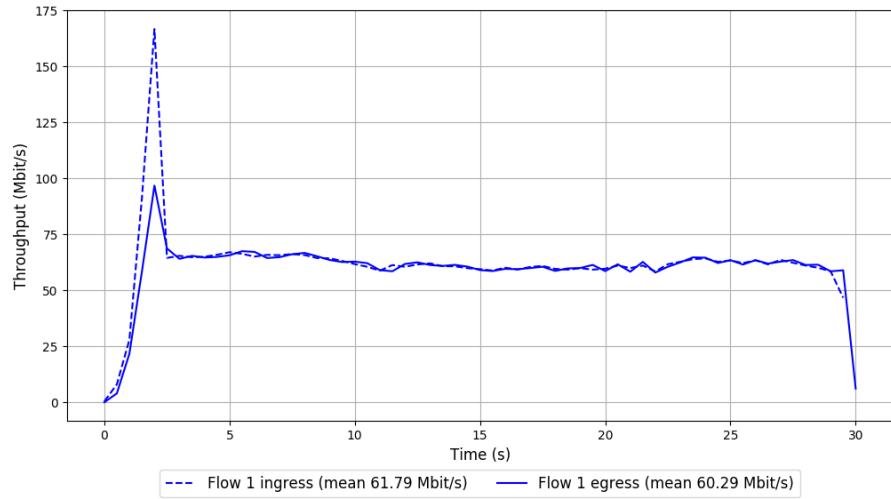


Run 9: Statistics of PCC-Allegro

```
Start at: 2018-04-17 08:05:46
End at: 2018-04-17 08:06:16
Local clock offset: 6.414 ms
Remote clock offset: 16.344 ms

# Below is generated by plot.py at 2018-04-17 08:58:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.29 Mbit/s
95th percentile per-packet one-way delay: 174.260 ms
Loss rate: 2.43%
-- Flow 1:
Average throughput: 60.29 Mbit/s
95th percentile per-packet one-way delay: 174.260 ms
Loss rate: 2.43%
```

Run 9: Report of PCC-Allegro — Data Link

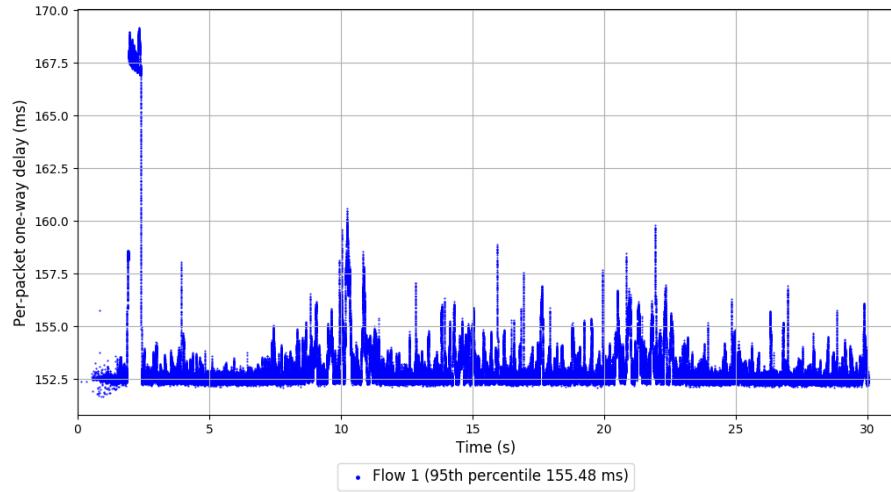
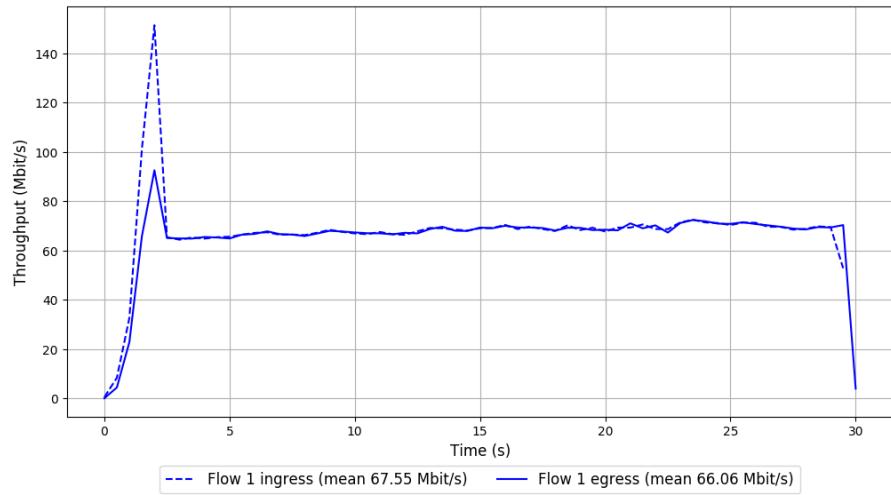


Run 10: Statistics of PCC-Allegro

```
Start at: 2018-04-17 08:26:57
End at: 2018-04-17 08:27:27
Local clock offset: 1.415 ms
Remote clock offset: 1.374 ms

# Below is generated by plot.py at 2018-04-17 08:58:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.06 Mbit/s
95th percentile per-packet one-way delay: 155.479 ms
Loss rate: 2.20%
-- Flow 1:
Average throughput: 66.06 Mbit/s
95th percentile per-packet one-way delay: 155.479 ms
Loss rate: 2.20%
```

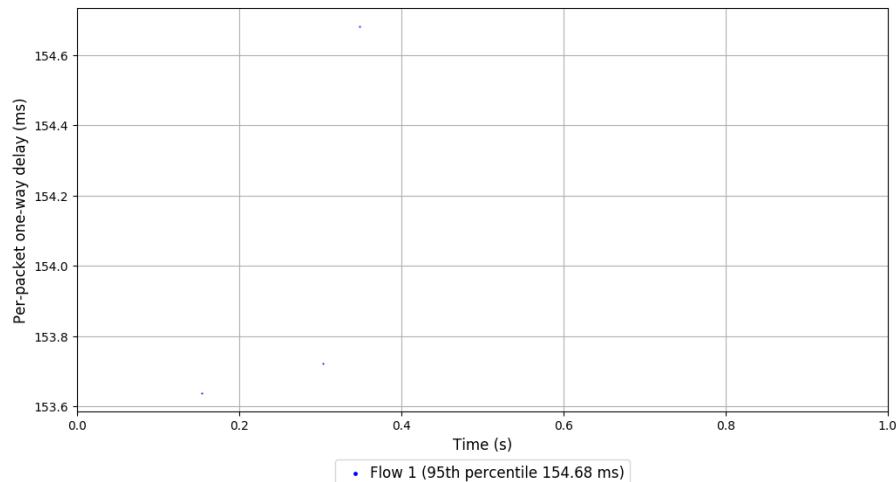
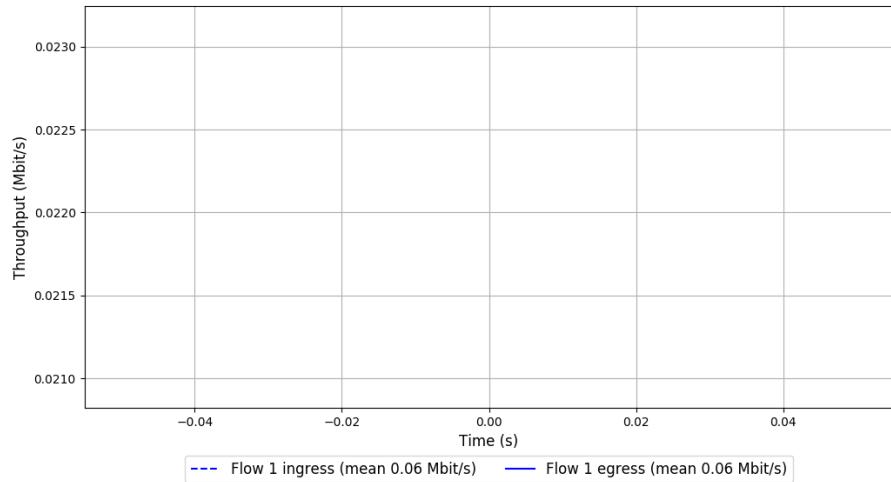
Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-04-17 05:15:06
End at: 2018-04-17 05:15:36
Local clock offset: 3.587 ms
Remote clock offset: -12.356 ms

Run 1: Report of QUIC Cubic — Data Link

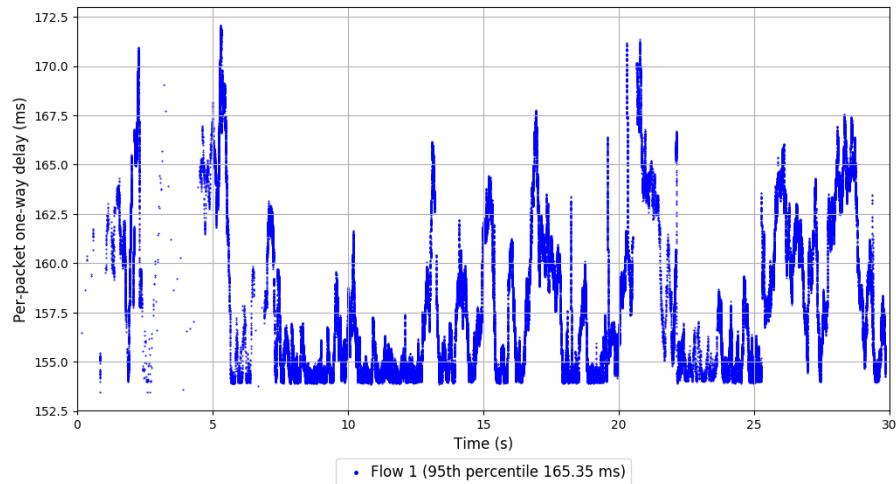
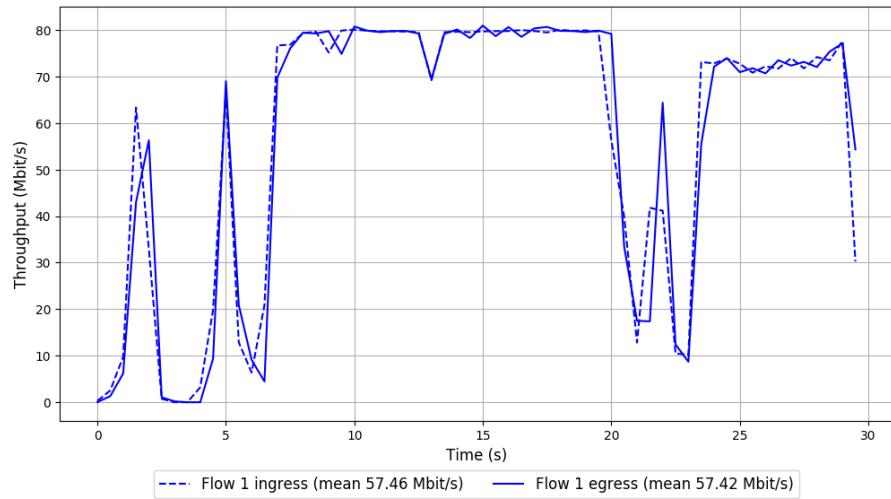


Run 2: Statistics of QUIC Cubic

```
Start at: 2018-04-17 05:36:15
End at: 2018-04-17 05:36:45
Local clock offset: 9.469 ms
Remote clock offset: 6.614 ms

# Below is generated by plot.py at 2018-04-17 08:59:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.42 Mbit/s
95th percentile per-packet one-way delay: 165.355 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 57.42 Mbit/s
95th percentile per-packet one-way delay: 165.355 ms
Loss rate: 0.07%
```

Run 2: Report of QUIC Cubic — Data Link

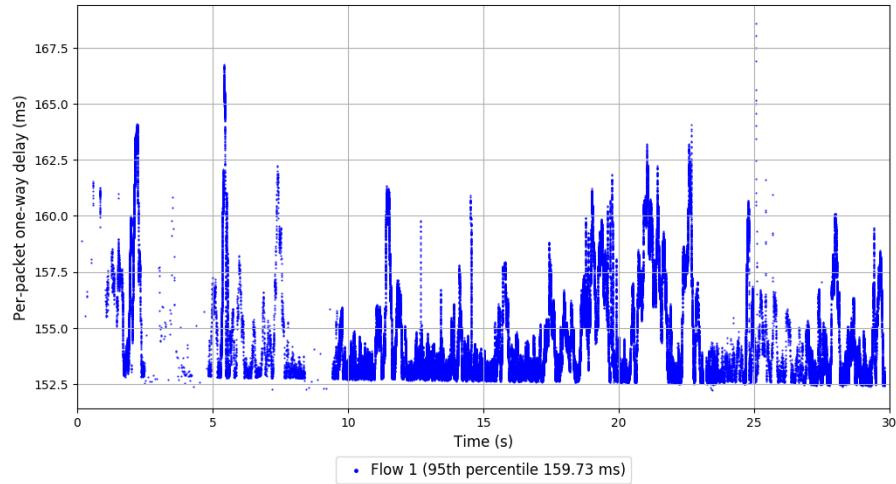
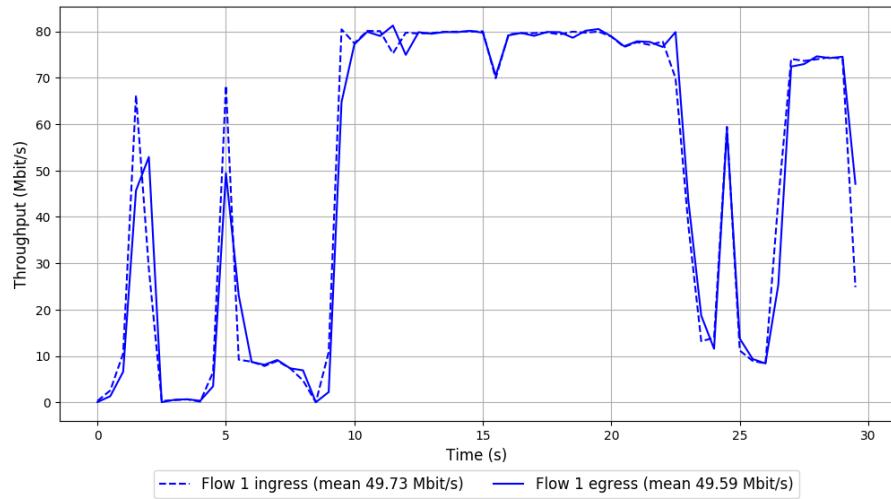


```
Run 3: Statistics of QUIC Cubic
```

```
Start at: 2018-04-17 05:57:32
End at: 2018-04-17 05:58:02
Local clock offset: 13.847 ms
Remote clock offset: 1.04 ms

# Below is generated by plot.py at 2018-04-17 08:59:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.59 Mbit/s
95th percentile per-packet one-way delay: 159.730 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 49.59 Mbit/s
95th percentile per-packet one-way delay: 159.730 ms
Loss rate: 0.30%
```

Run 3: Report of QUIC Cubic — Data Link

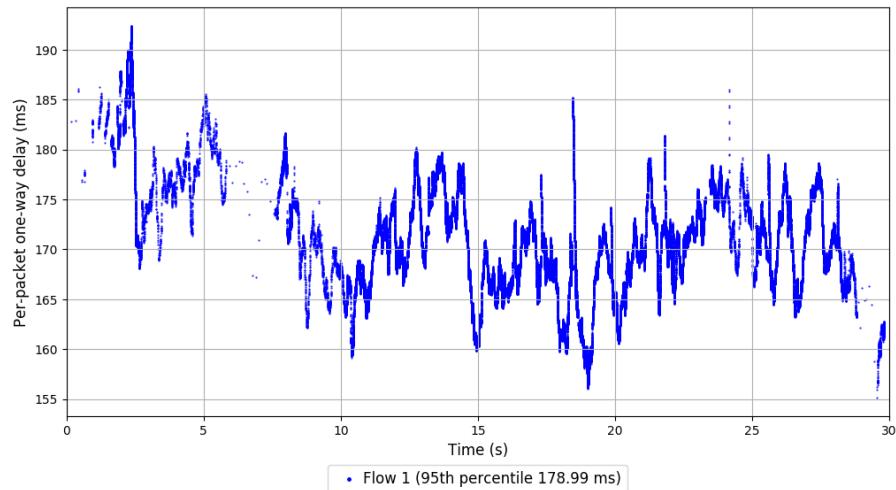
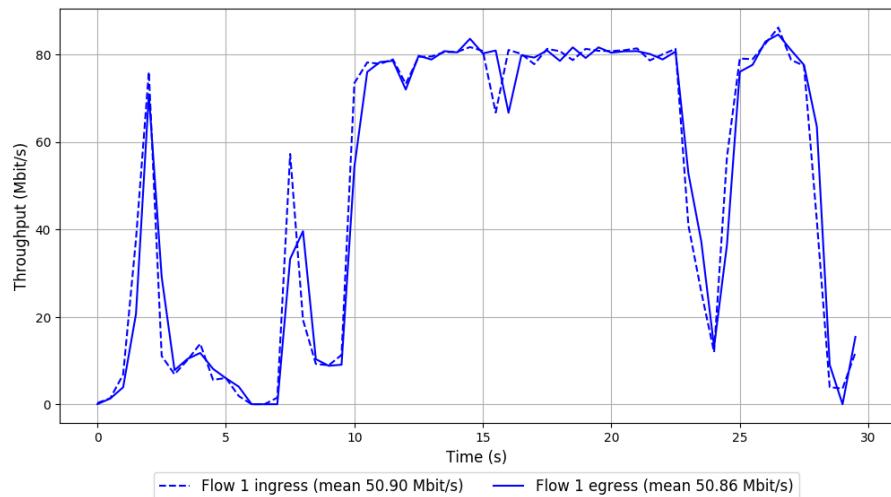


Run 4: Statistics of QUIC Cubic

```
Start at: 2018-04-17 06:18:44
End at: 2018-04-17 06:19:14
Local clock offset: 8.467 ms
Remote clock offset: -12.294 ms

# Below is generated by plot.py at 2018-04-17 08:59:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.86 Mbit/s
95th percentile per-packet one-way delay: 178.992 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 50.86 Mbit/s
95th percentile per-packet one-way delay: 178.992 ms
Loss rate: 0.17%
```

Run 4: Report of QUIC Cubic — Data Link

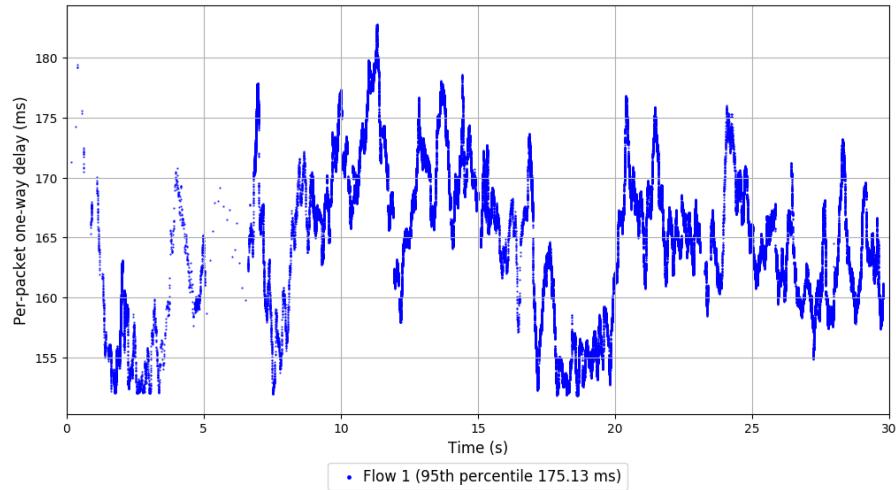
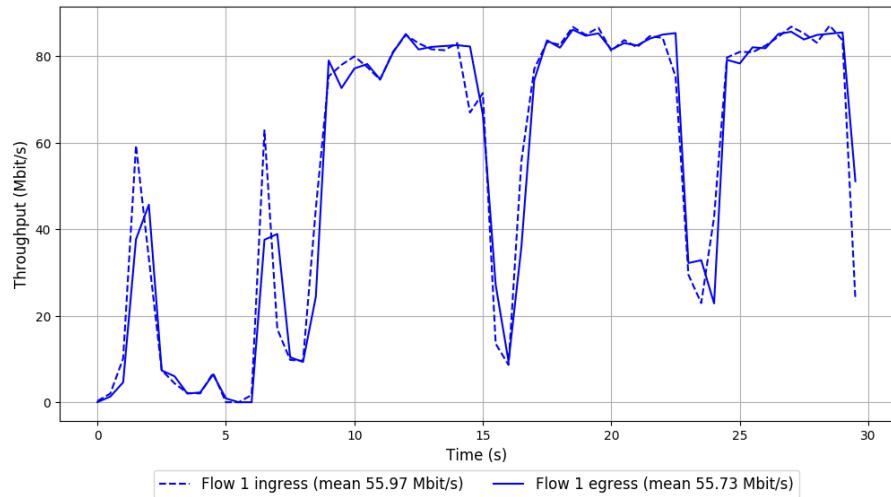


Run 5: Statistics of QUIC Cubic

```
Start at: 2018-04-17 06:45:31
End at: 2018-04-17 06:46:01
Local clock offset: 1.148 ms
Remote clock offset: 1.065 ms

# Below is generated by plot.py at 2018-04-17 08:59:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.73 Mbit/s
95th percentile per-packet one-way delay: 175.132 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 55.73 Mbit/s
95th percentile per-packet one-way delay: 175.132 ms
Loss rate: 0.47%
```

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

/home/ubuntu/pantheon_data/2018-04-17T04-55-AWS-Korea-to-China-10-runs/quic_stats_run6.log

Run 6: Report of QUIC Cubic — Data Link

Figure is missing

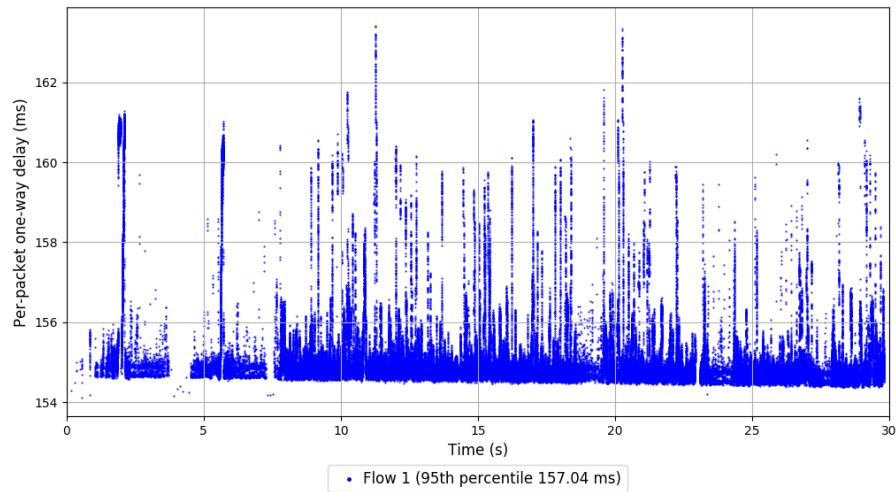
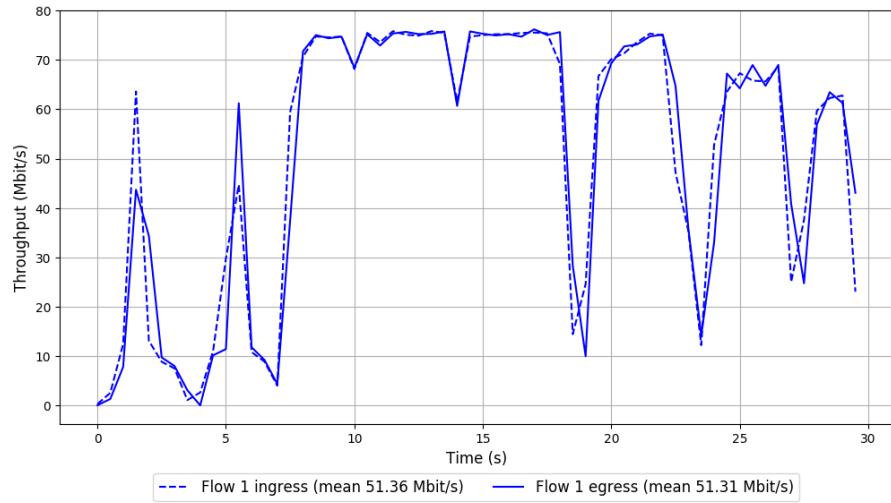
Figure is missing

Run 7: Statistics of QUIC Cubic

```
Start at: 2018-04-17 07:28:48
End at: 2018-04-17 07:29:18
Local clock offset: 6.629 ms
Remote clock offset: 5.82 ms

# Below is generated by plot.py at 2018-04-17 08:59:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.31 Mbit/s
95th percentile per-packet one-way delay: 157.044 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 51.31 Mbit/s
95th percentile per-packet one-way delay: 157.044 ms
Loss rate: 0.10%
```

Run 7: Report of QUIC Cubic — Data Link

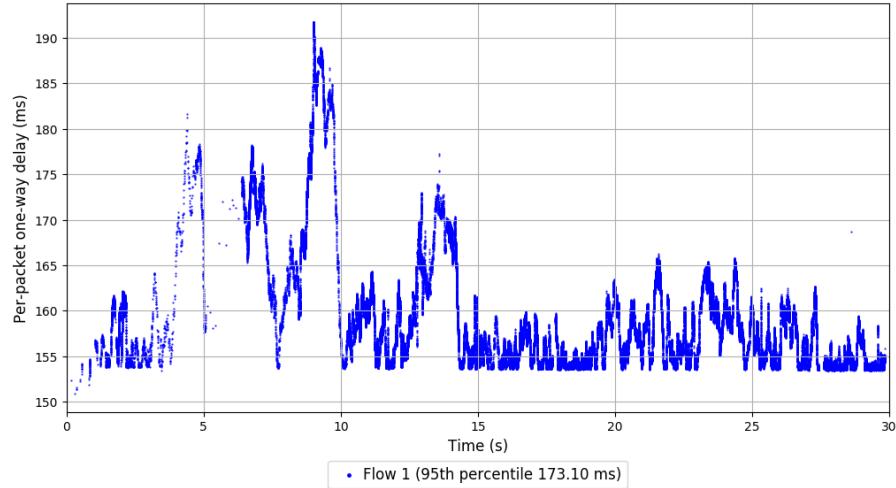
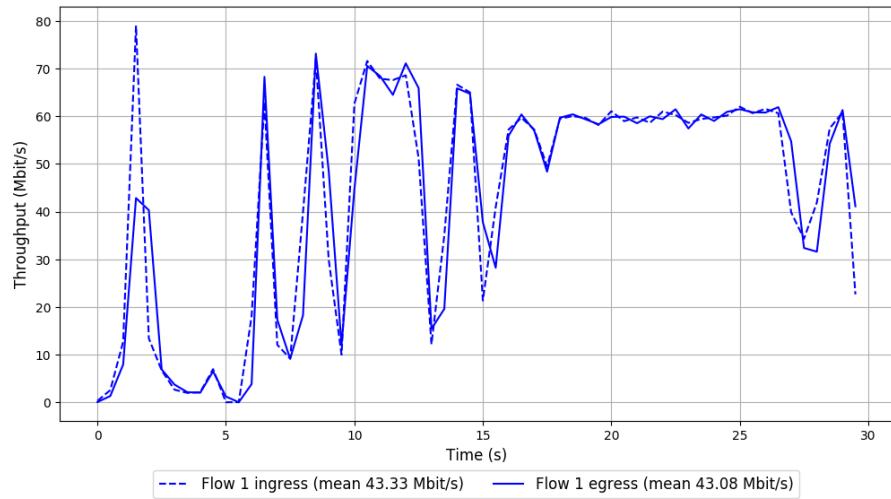


Run 8: Statistics of QUIC Cubic

```
Start at: 2018-04-17 07:50:44
End at: 2018-04-17 07:51:14
Local clock offset: 6.839 ms
Remote clock offset: 12.656 ms

# Below is generated by plot.py at 2018-04-17 08:59:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.08 Mbit/s
95th percentile per-packet one-way delay: 173.104 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 43.08 Mbit/s
95th percentile per-packet one-way delay: 173.104 ms
Loss rate: 0.57%
```

Run 8: Report of QUIC Cubic — Data Link

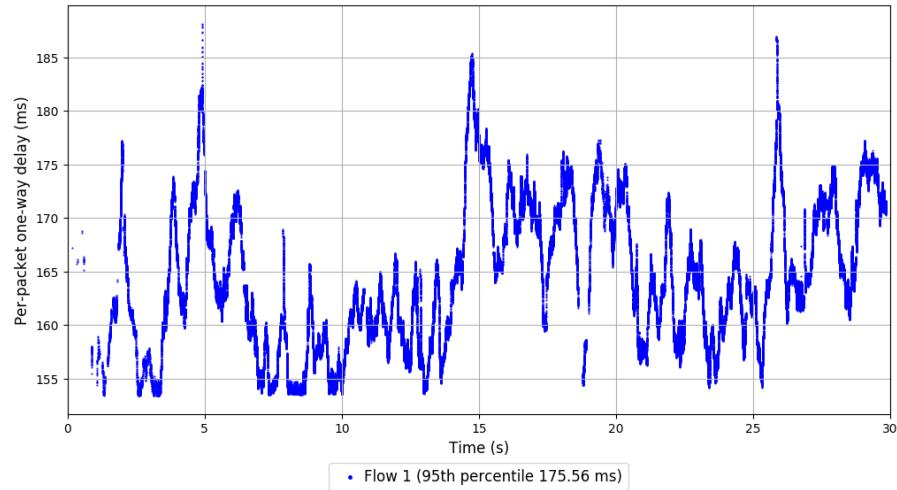
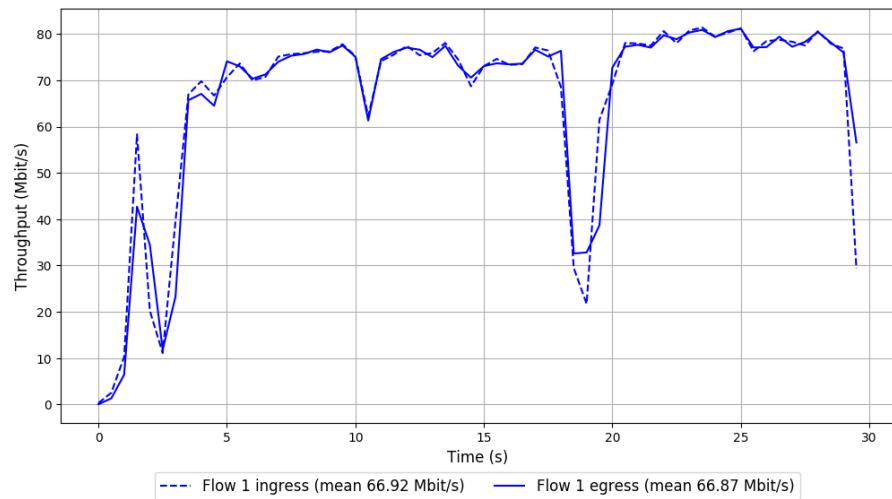


Run 9: Statistics of QUIC Cubic

```
Start at: 2018-04-17 08:13:08
End at: 2018-04-17 08:13:39
Local clock offset: 6.397 ms
Remote clock offset: 6.967 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.87 Mbit/s
95th percentile per-packet one-way delay: 175.555 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 66.87 Mbit/s
95th percentile per-packet one-way delay: 175.555 ms
Loss rate: 0.06%
```

Run 9: Report of QUIC Cubic — Data Link

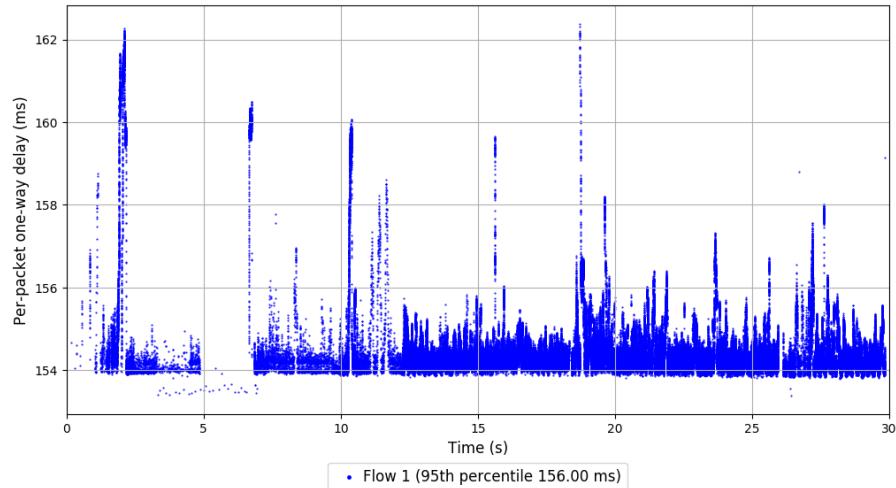
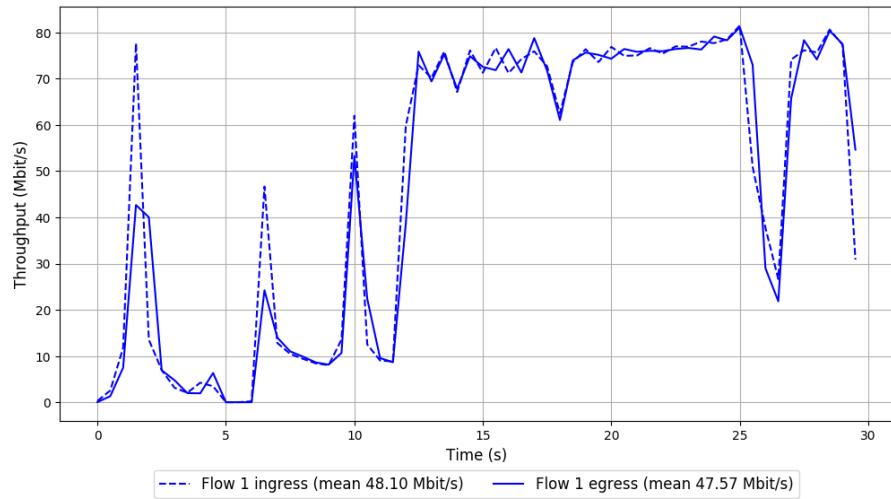


Run 10: Statistics of QUIC Cubic

```
Start at: 2018-04-17 08:34:02
End at: 2018-04-17 08:34:32
Local clock offset: 0.223 ms
Remote clock offset: 0.953 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.57 Mbit/s
95th percentile per-packet one-way delay: 156.004 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 47.57 Mbit/s
95th percentile per-packet one-way delay: 156.004 ms
Loss rate: 1.09%
```

Run 10: Report of QUIC Cubic — Data Link

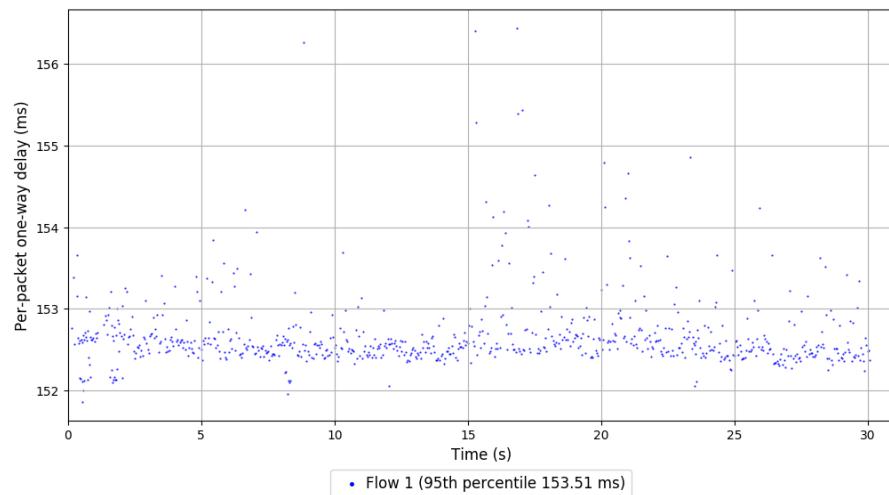
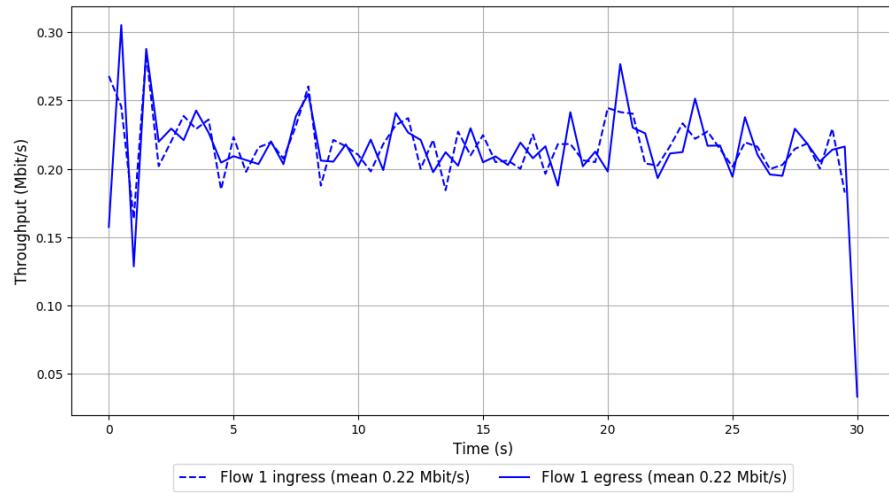


Run 1: Statistics of SCReAM

```
Start at: 2018-04-17 05:02:41
End at: 2018-04-17 05:03:11
Local clock offset: 5.648 ms
Remote clock offset: -13.821 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 153.514 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 153.514 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

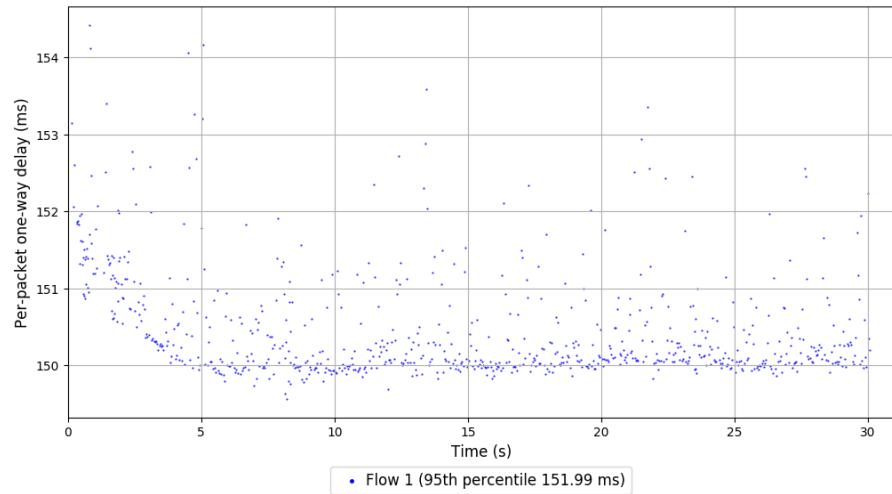
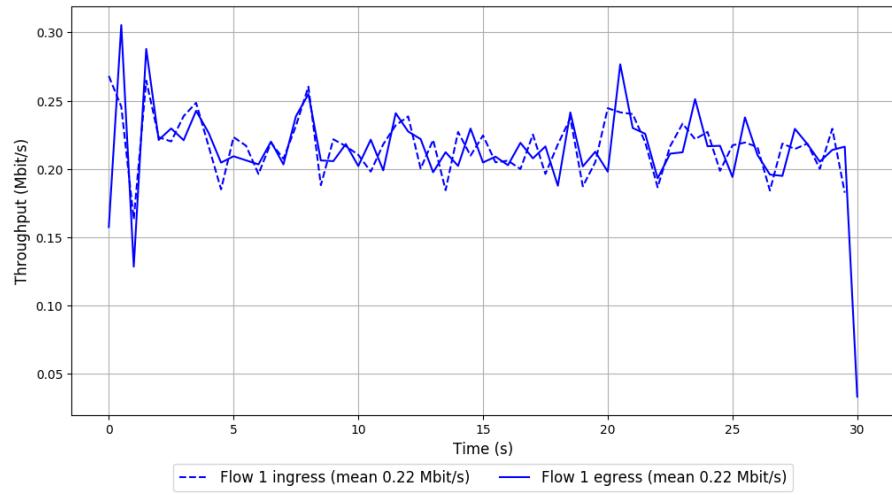


Run 2: Statistics of SCReAM

```
Start at: 2018-04-17 05:23:51
End at: 2018-04-17 05:24:21
Local clock offset: 2.87 ms
Remote clock offset: -2.715 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 151.985 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 151.985 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

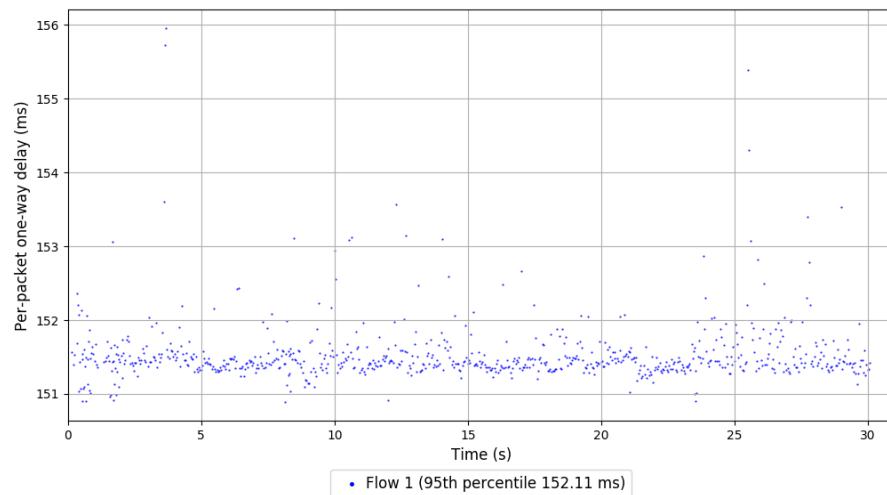
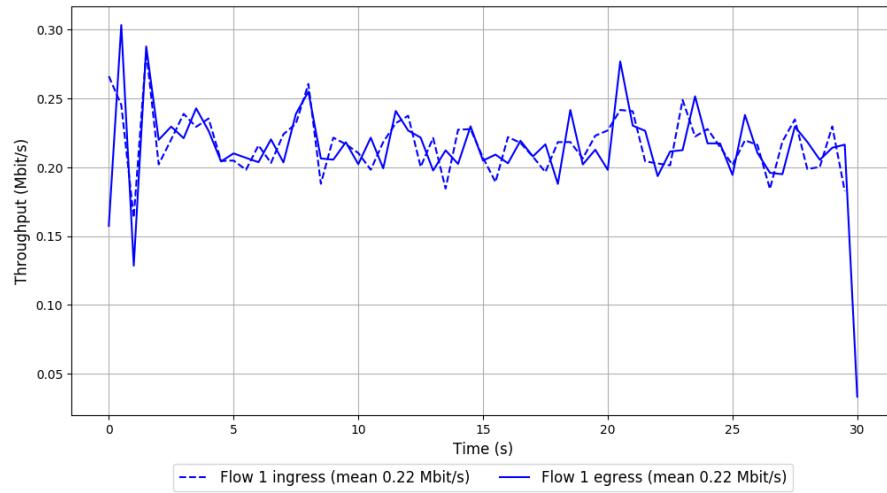


Run 3: Statistics of SCReAM

```
Start at: 2018-04-17 05:45:05
End at: 2018-04-17 05:45:35
Local clock offset: 11.615 ms
Remote clock offset: -14.751 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.107 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.107 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

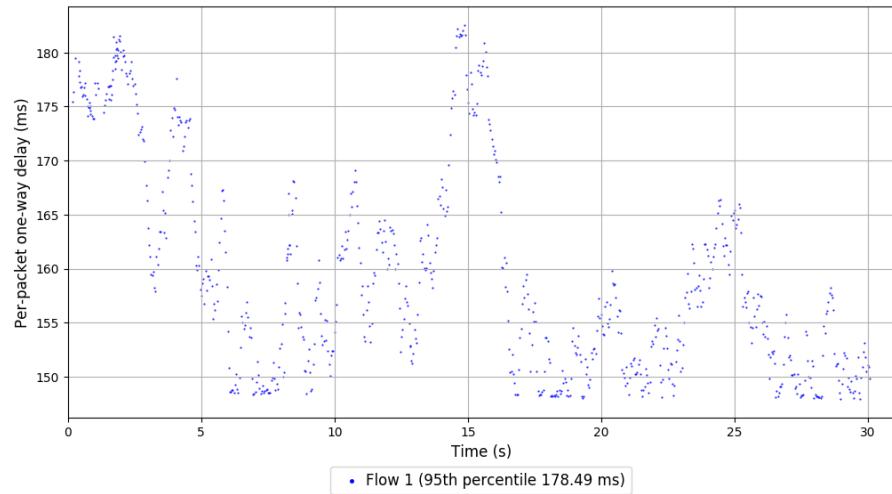
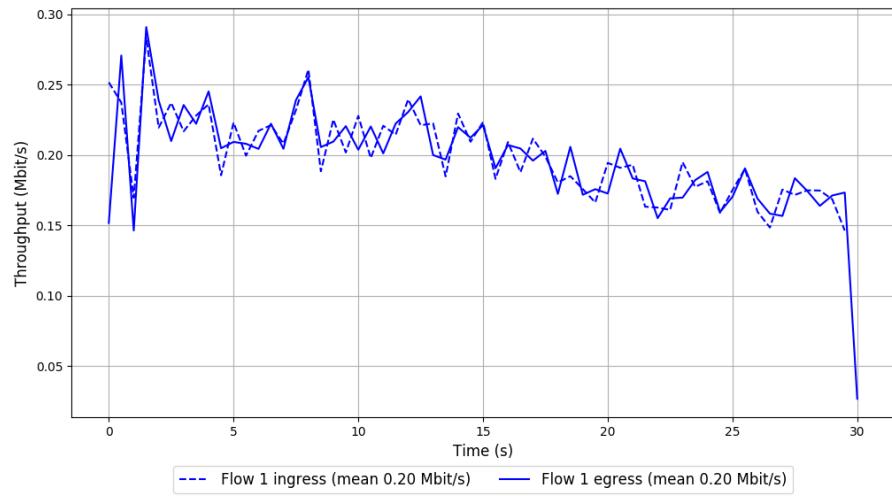


Run 4: Statistics of SCReAM

```
Start at: 2018-04-17 06:06:17
End at: 2018-04-17 06:06:47
Local clock offset: 10.114 ms
Remote clock offset: 5.816 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 178.493 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 178.493 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

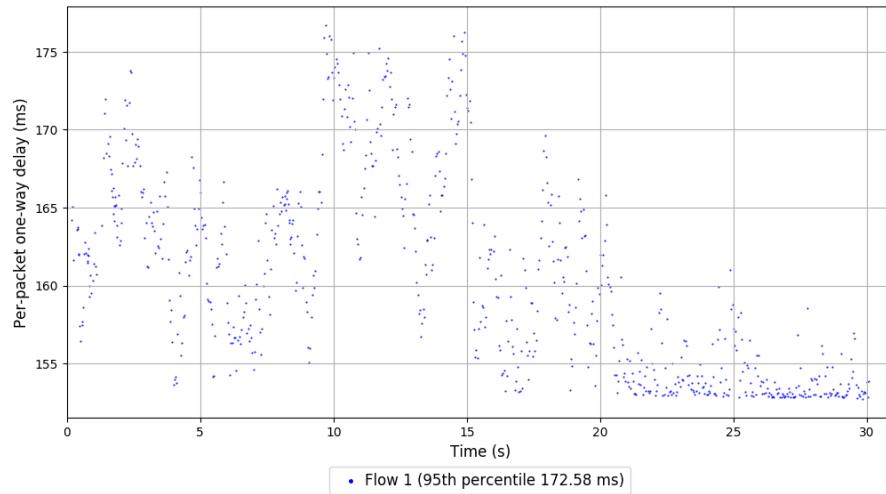
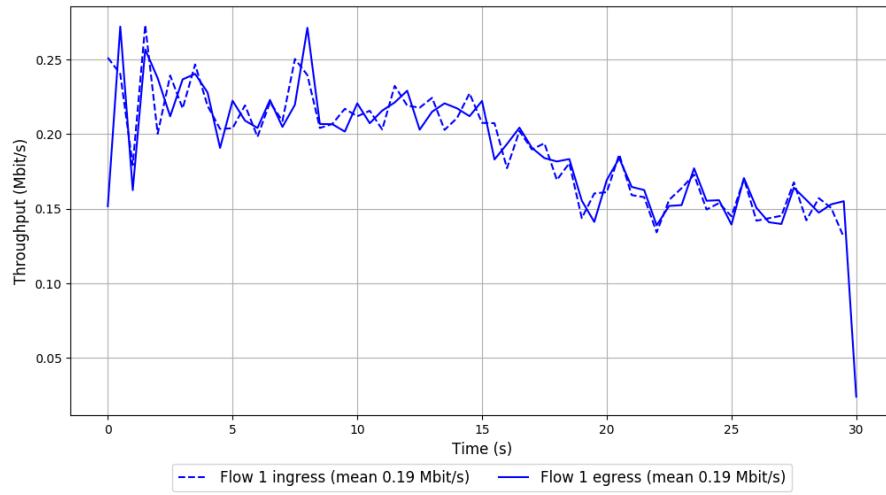


Run 5: Statistics of SCReAM

```
Start at: 2018-04-17 06:27:30
End at: 2018-04-17 06:28:00
Local clock offset: 8.553 ms
Remote clock offset: -7.437 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 172.579 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 172.579 ms
Loss rate: 0.12%
```

Run 5: Report of SCReAM — Data Link

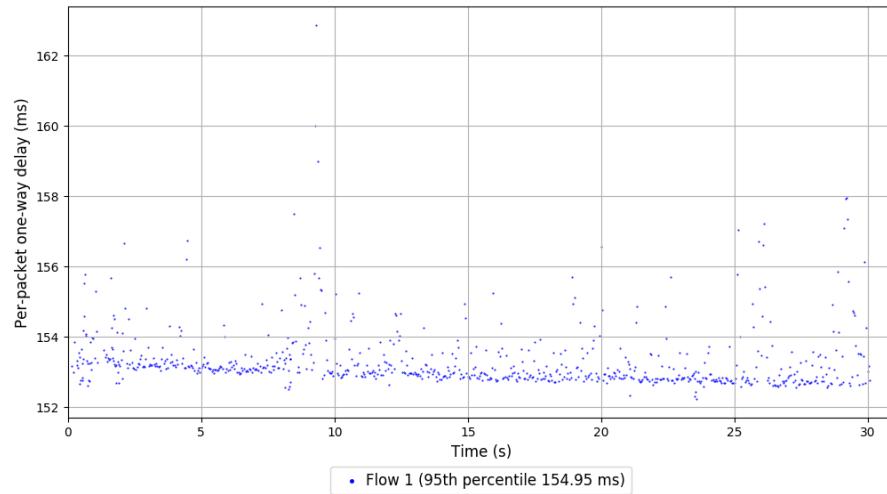
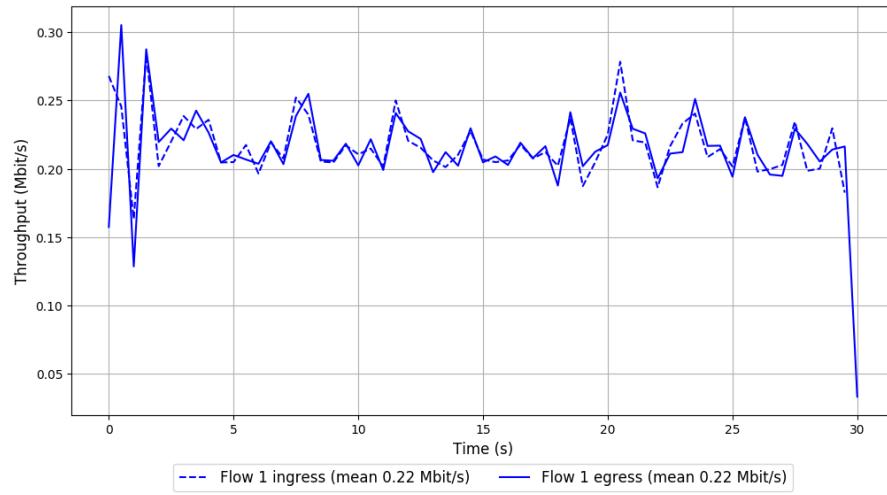


Run 6: Statistics of SCReAM

```
Start at: 2018-04-17 06:54:22
End at: 2018-04-17 06:54:52
Local clock offset: -0.984 ms
Remote clock offset: 7.843 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 154.952 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 154.952 ms
Loss rate: 0.00%
```

Run 6: Report of SCReAM — Data Link

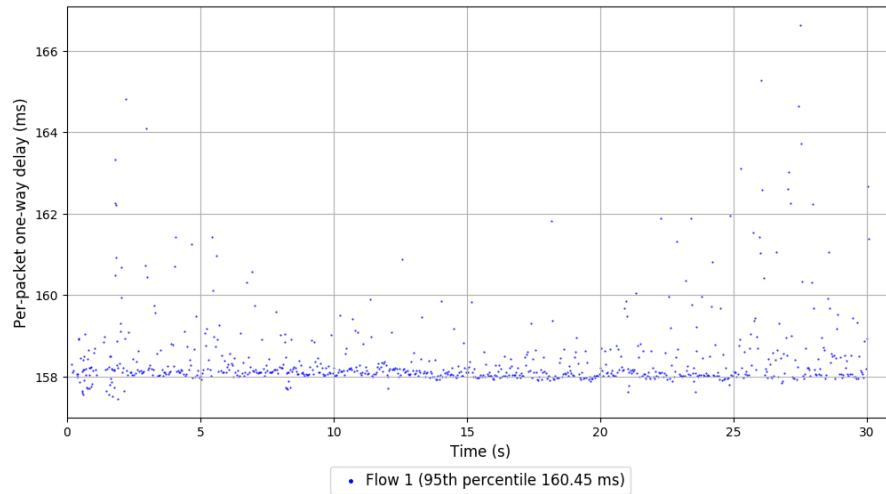
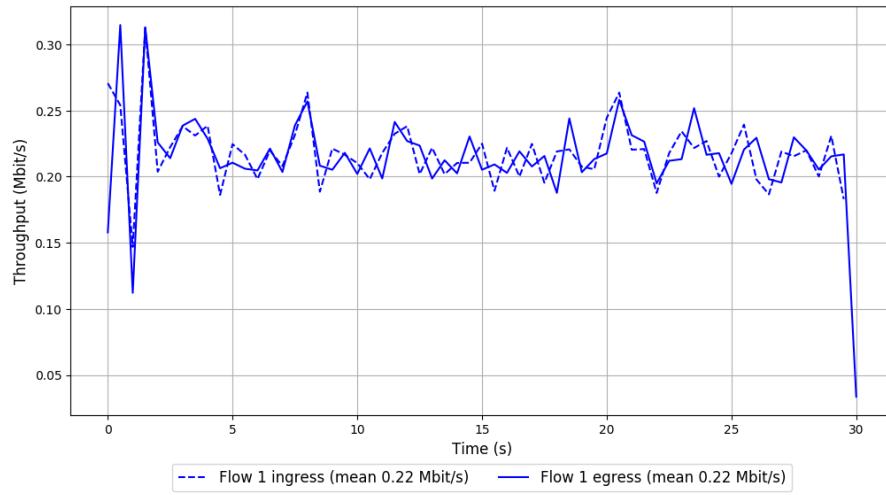


Run 7: Statistics of SCReAM

```
Start at: 2018-04-17 07:16:18
End at: 2018-04-17 07:16:48
Local clock offset: 4.077 ms
Remote clock offset: -1.139 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 160.451 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 160.451 ms
Loss rate: 0.00%
```

Run 7: Report of SCReAM — Data Link

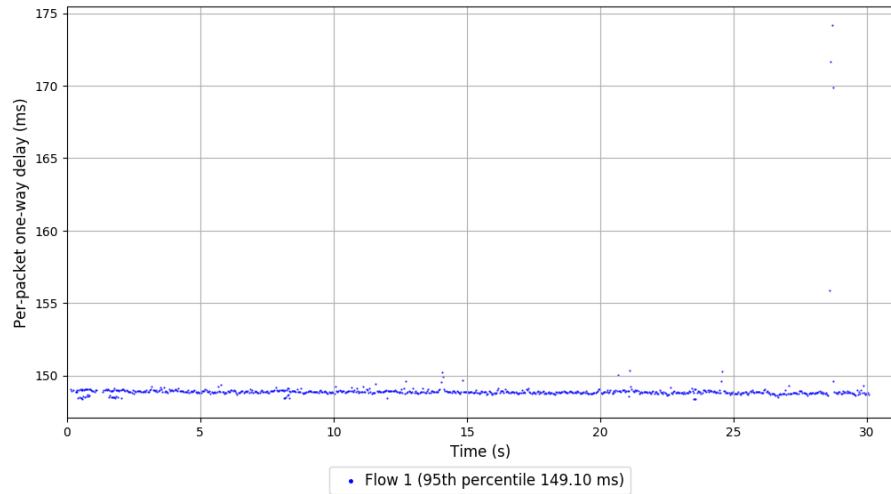
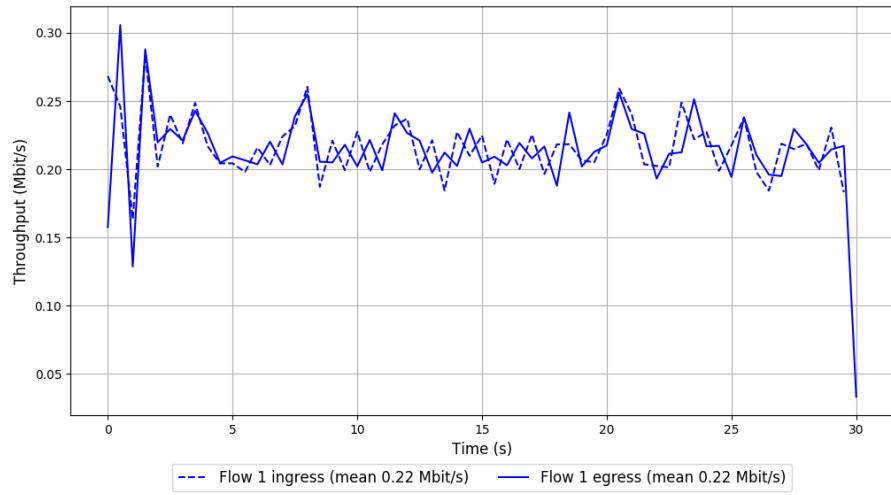


Run 8: Statistics of SCReAM

```
Start at: 2018-04-17 07:38:03
End at: 2018-04-17 07:38:33
Local clock offset: 7.399 ms
Remote clock offset: 4.304 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 149.097 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 149.097 ms
Loss rate: 0.00%
```

Run 8: Report of SCReAM — Data Link

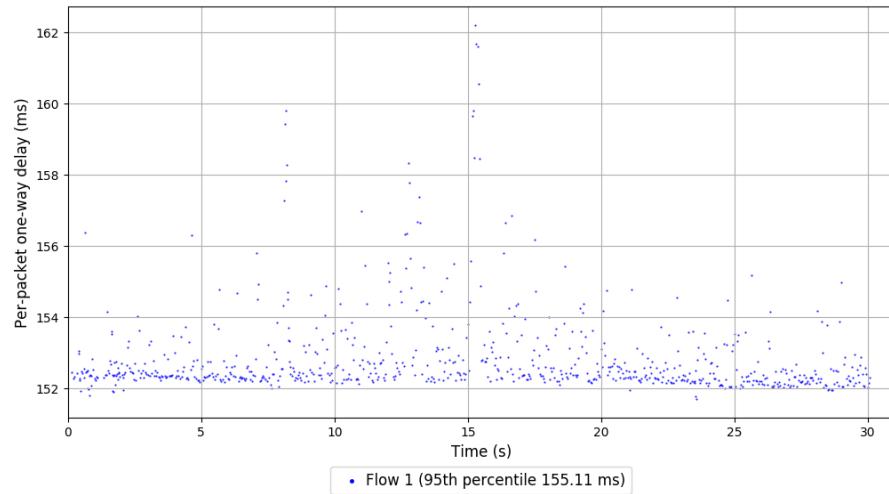
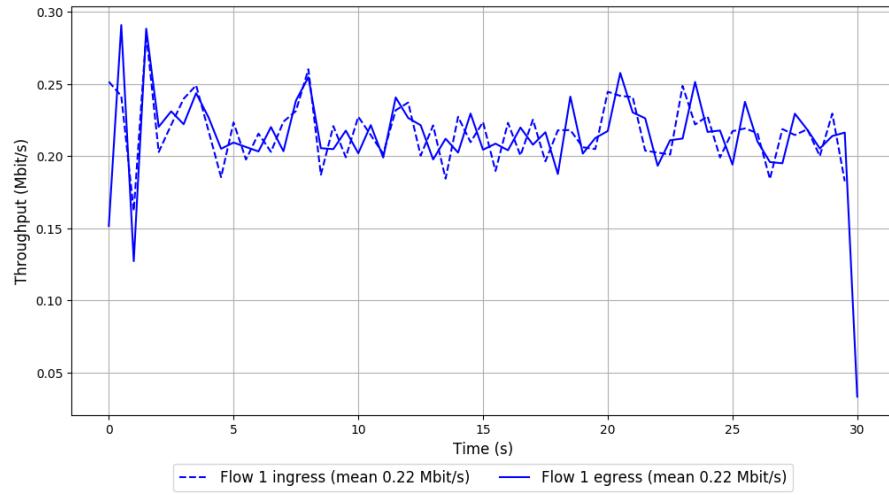


Run 9: Statistics of SCReAM

```
Start at: 2018-04-17 07:59:29
End at: 2018-04-17 07:59:59
Local clock offset: 6.53 ms
Remote clock offset: 17.821 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 155.114 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 155.114 ms
Loss rate: 0.00%
```

Run 9: Report of SCReAM — Data Link

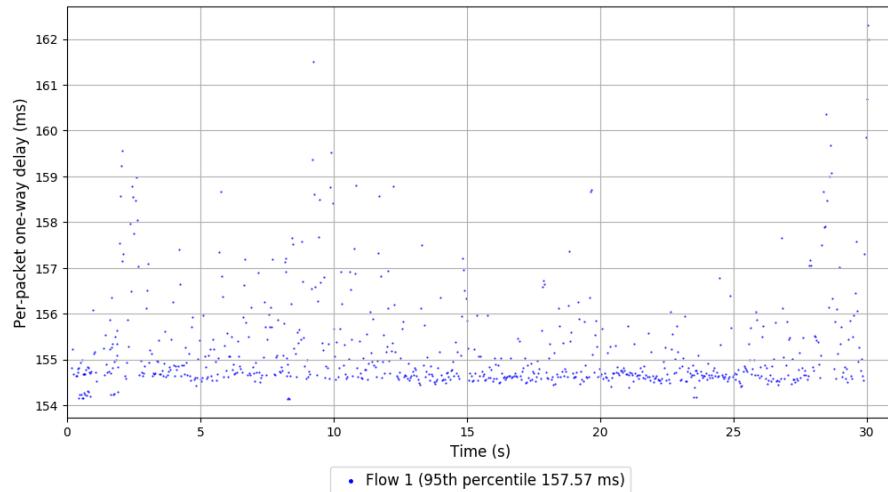
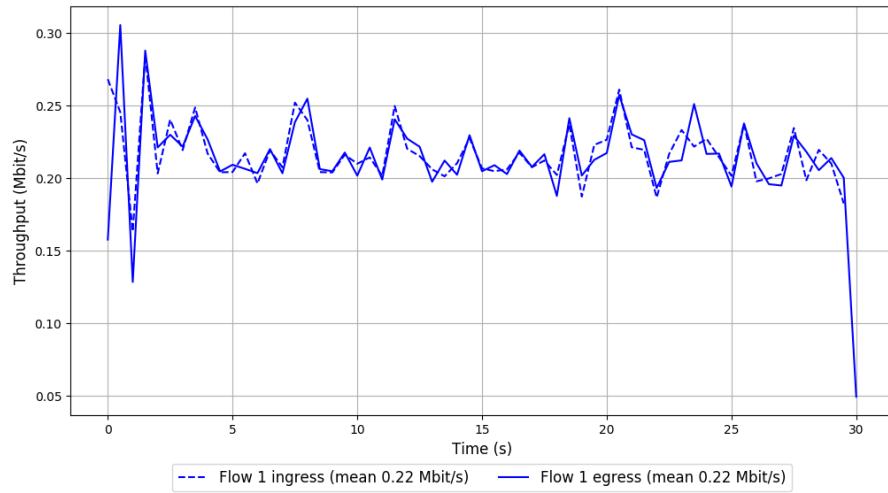


Run 10: Statistics of SCReAM

```
Start at: 2018-04-17 08:21:55
End at: 2018-04-17 08:22:25
Local clock offset: 2.909 ms
Remote clock offset: 2.365 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 157.575 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 157.575 ms
Loss rate: 0.00%
```

Run 10: Report of SCReAM — Data Link

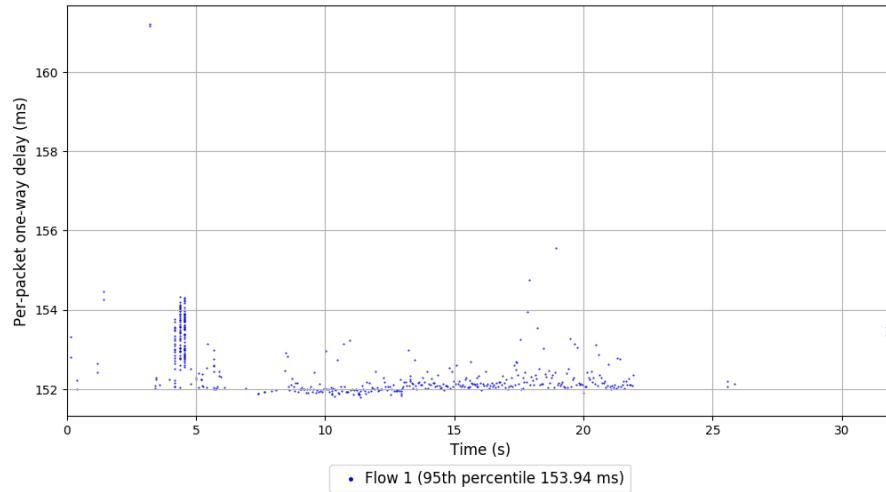
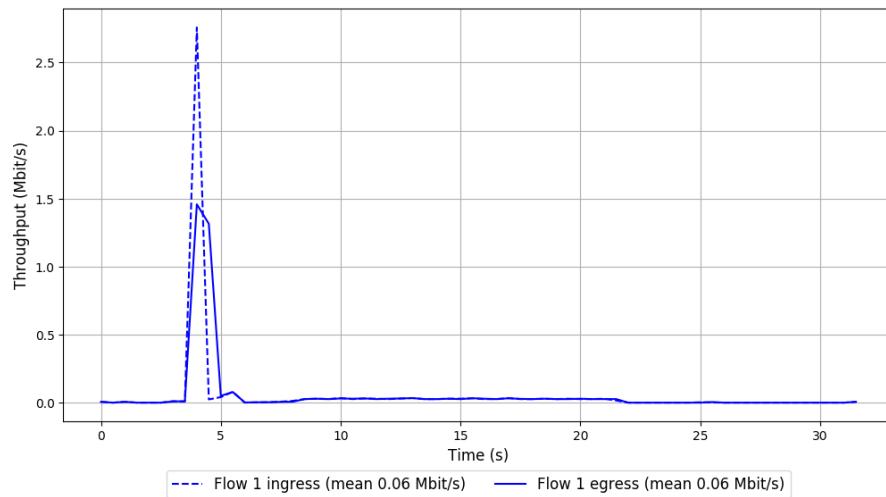


```
Run 1: Statistics of WebRTC media

Start at: 2018-04-17 05:12:38
End at: 2018-04-17 05:13:09
Local clock offset: 3.614 ms
Remote clock offset: -14.216 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 153.936 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 153.936 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

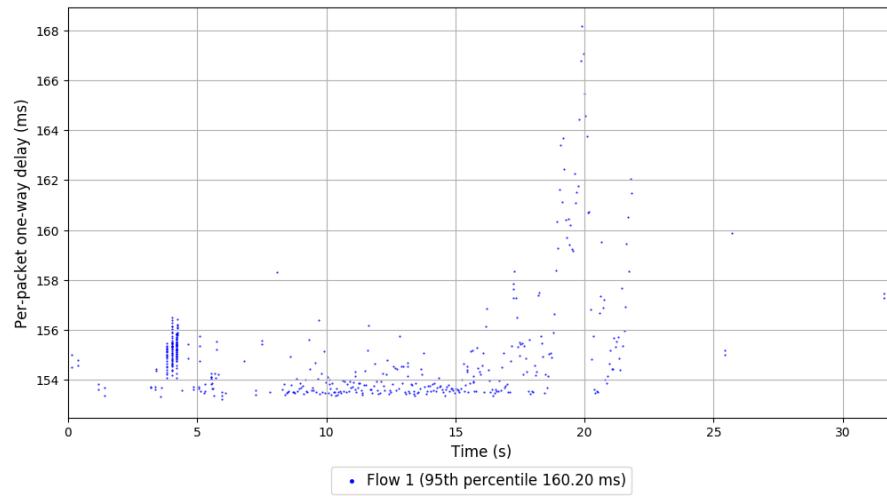
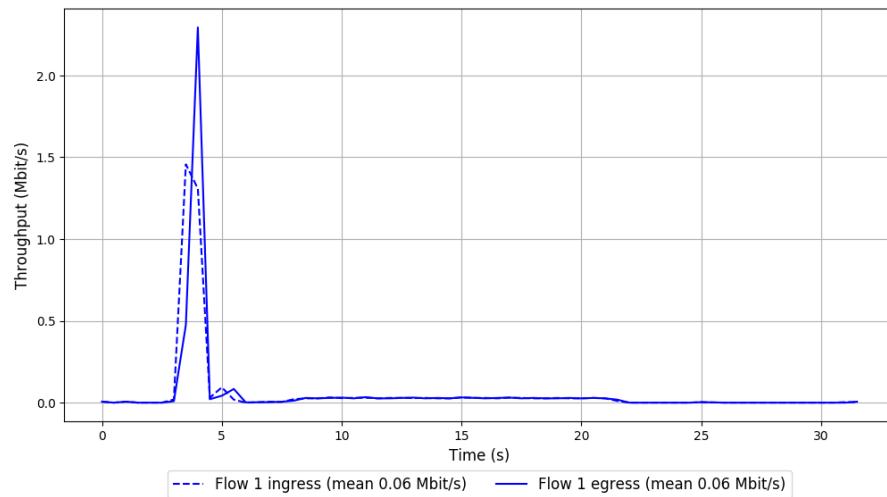


Run 2: Statistics of WebRTC media

```
Start at: 2018-04-17 05:33:48
End at: 2018-04-17 05:34:18
Local clock offset: 8.518 ms
Remote clock offset: 5.816 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 160.203 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 160.203 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

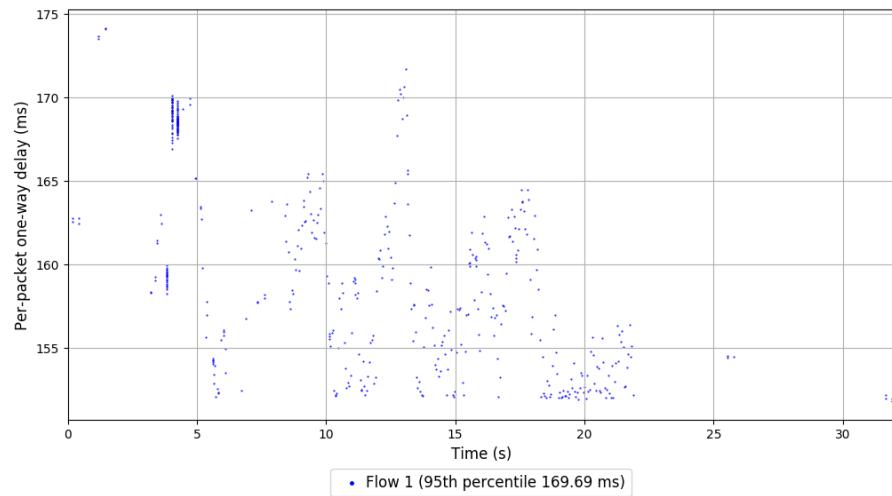
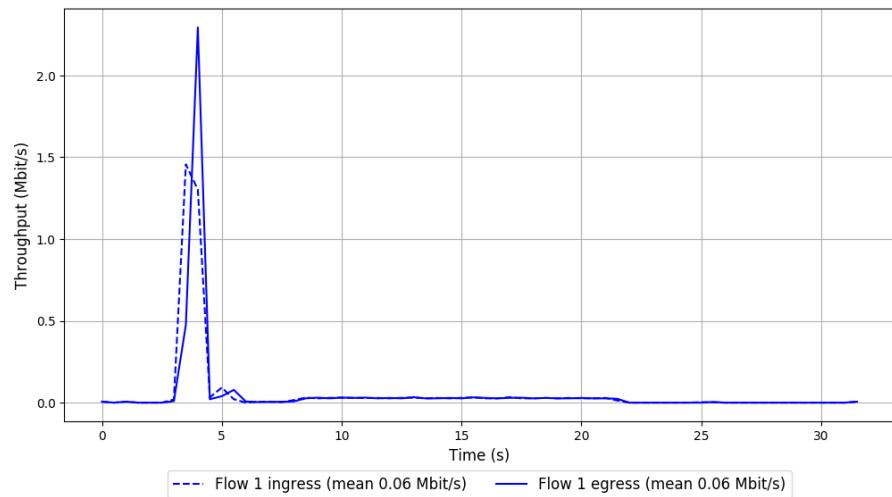


Run 3: Statistics of WebRTC media

```
Start at: 2018-04-17 05:55:04
End at: 2018-04-17 05:55:34
Local clock offset: 13.29 ms
Remote clock offset: -1.726 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 169.685 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 169.685 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

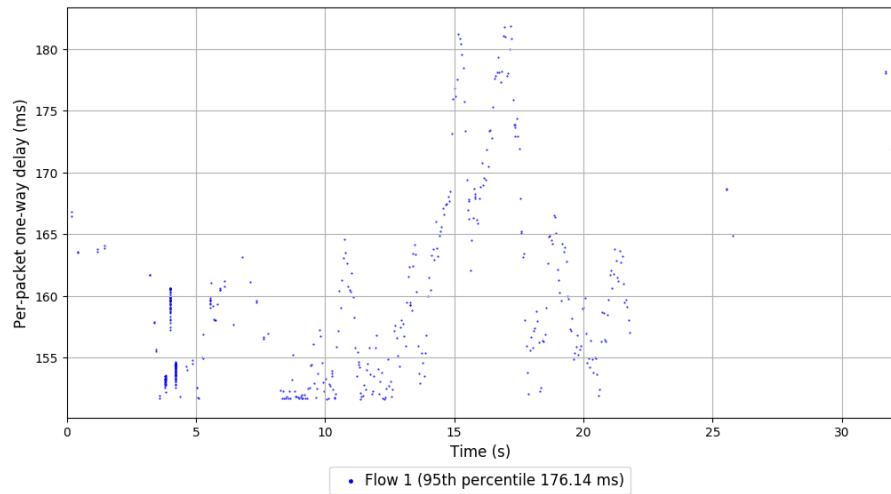
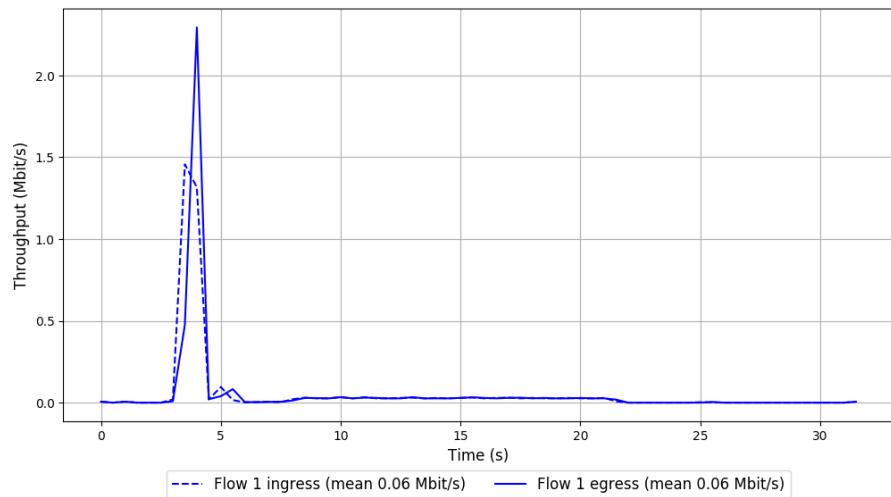


Run 4: Statistics of WebRTC media

```
Start at: 2018-04-17 06:16:16
End at: 2018-04-17 06:16:46
Local clock offset: 8.514 ms
Remote clock offset: -12.457 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 176.144 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 176.144 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link

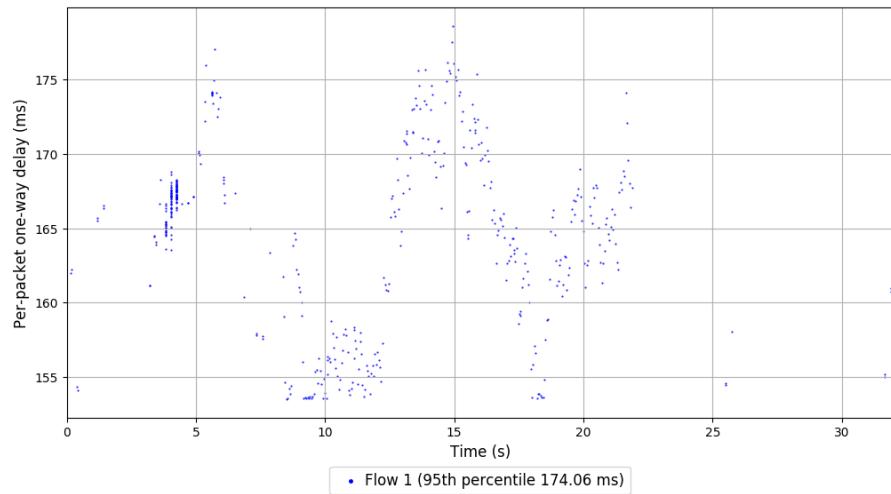
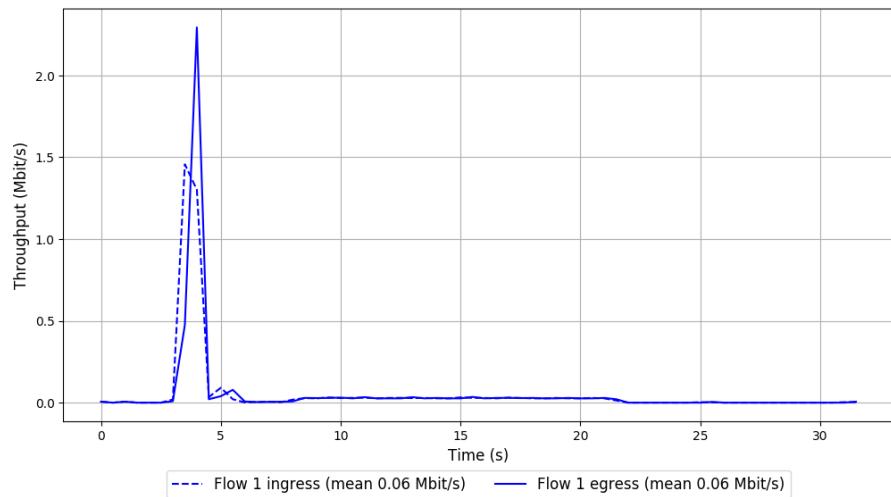


Run 5: Statistics of WebRTC media

```
Start at: 2018-04-17 06:42:58
End at: 2018-04-17 06:43:28
Local clock offset: 2.216 ms
Remote clock offset: -0.175 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 174.060 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 174.060 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

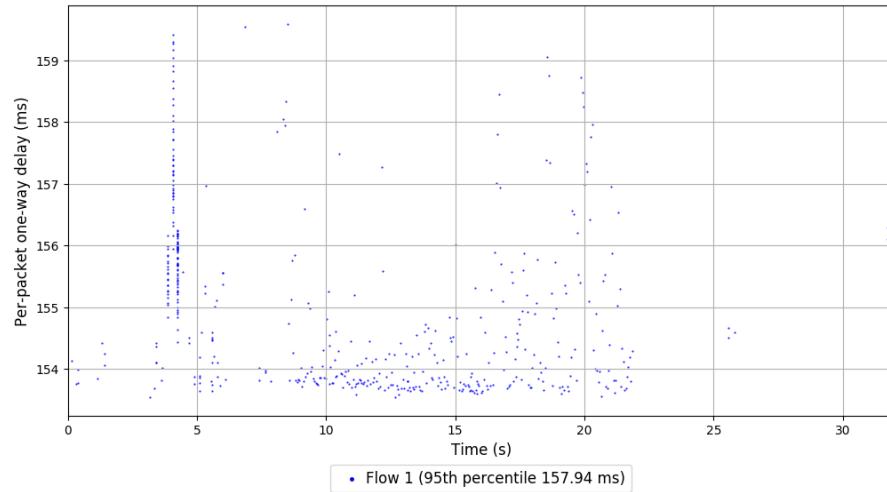
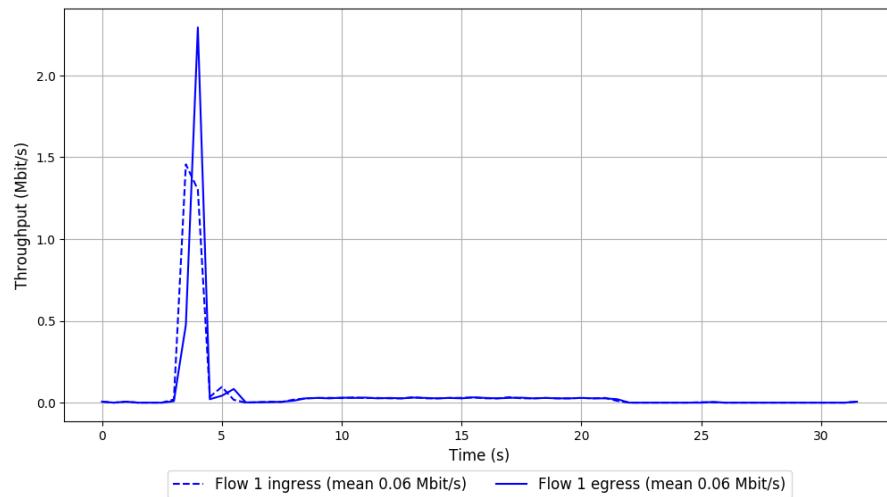


Run 6: Statistics of WebRTC media

```
Start at: 2018-04-17 07:04:22
End at: 2018-04-17 07:04:52
Local clock offset: -2.312 ms
Remote clock offset: 11.693 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 157.944 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 157.944 ms
Loss rate: 0.00%
```

Run 6: Report of WebRTC media — Data Link

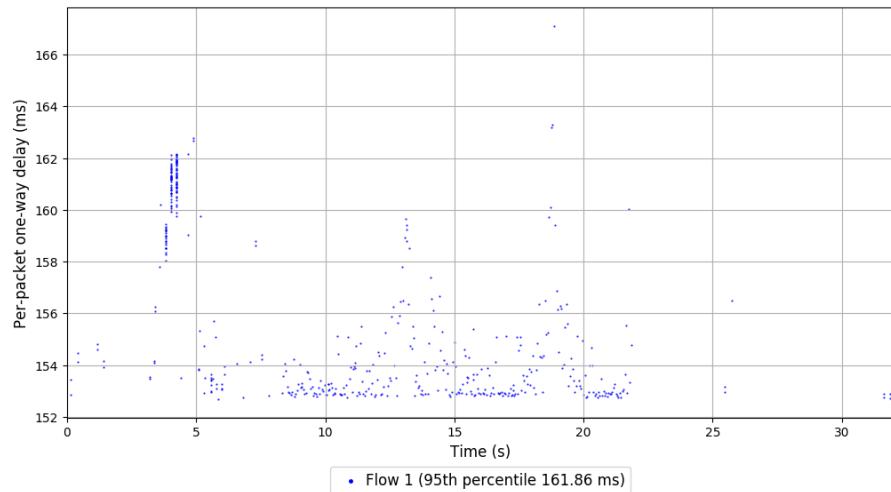
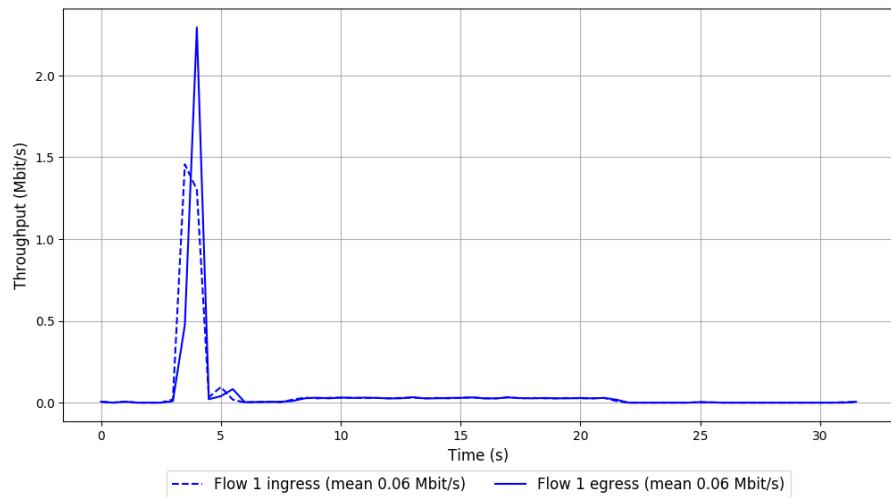


Run 7: Statistics of WebRTC media

```
Start at: 2018-04-17 07:26:15
End at: 2018-04-17 07:26:45
Local clock offset: 6.508 ms
Remote clock offset: 4.289 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 161.864 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 161.864 ms
Loss rate: 0.00%
```

Run 7: Report of WebRTC media — Data Link

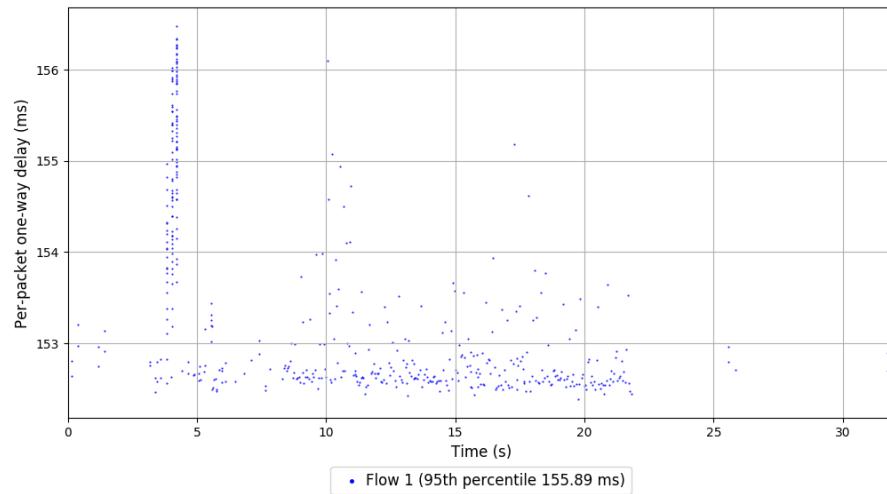
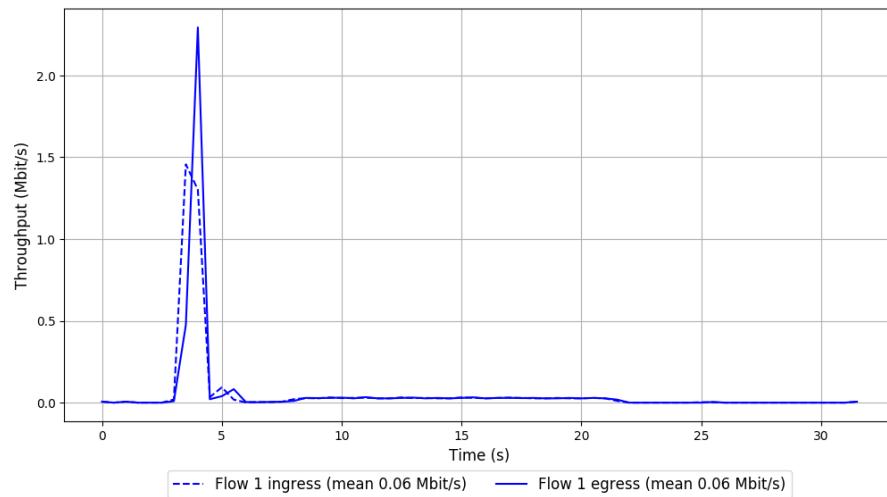


Run 8: Statistics of WebRTC media

```
Start at: 2018-04-17 07:48:15
End at: 2018-04-17 07:48:45
Local clock offset: 6.777 ms
Remote clock offset: 11.547 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 155.891 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 155.891 ms
Loss rate: 0.00%
```

Run 8: Report of WebRTC media — Data Link

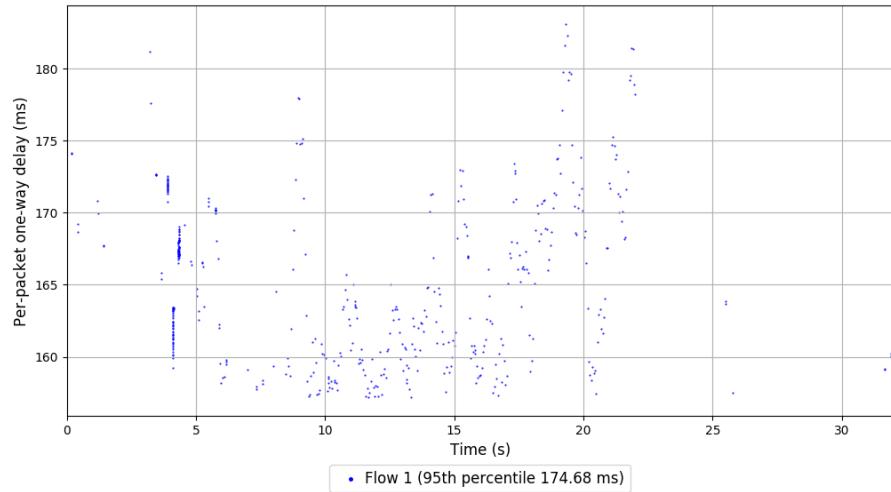
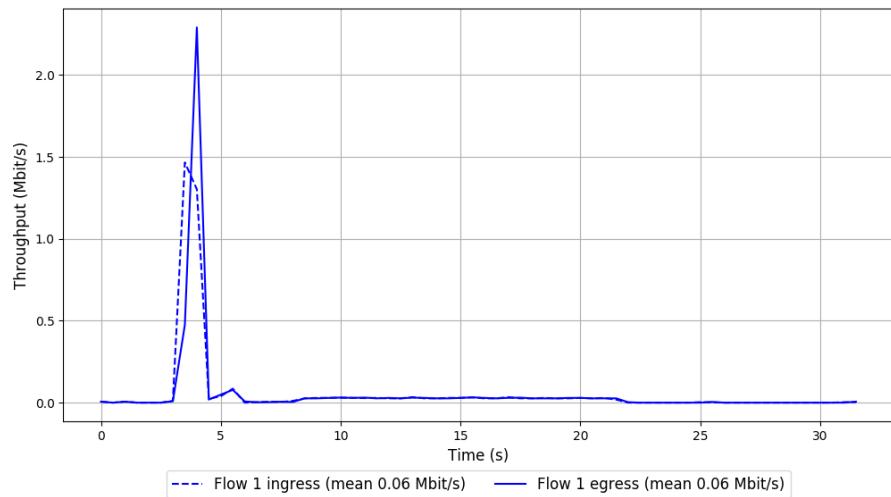


Run 9: Statistics of WebRTC media

```
Start at: 2018-04-17 08:10:40
End at: 2018-04-17 08:11:10
Local clock offset: 6.336 ms
Remote clock offset: 8.914 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 174.682 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 174.682 ms
Loss rate: 0.00%
```

Run 9: Report of WebRTC media — Data Link

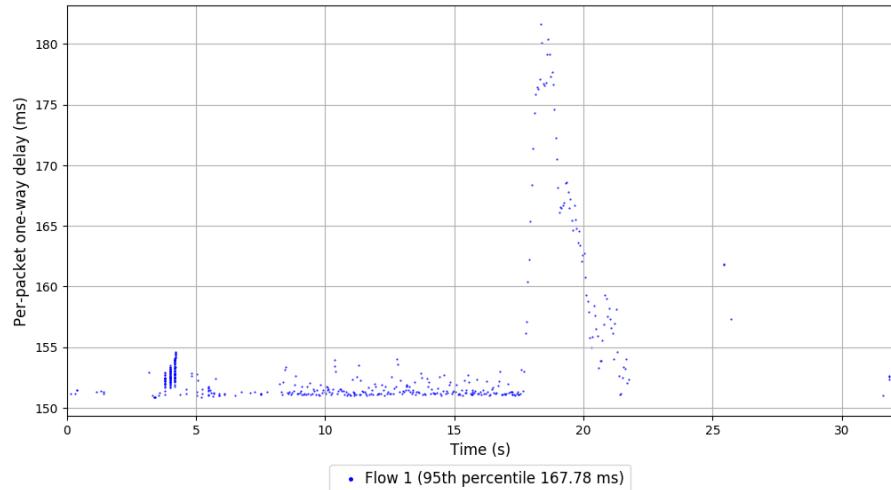
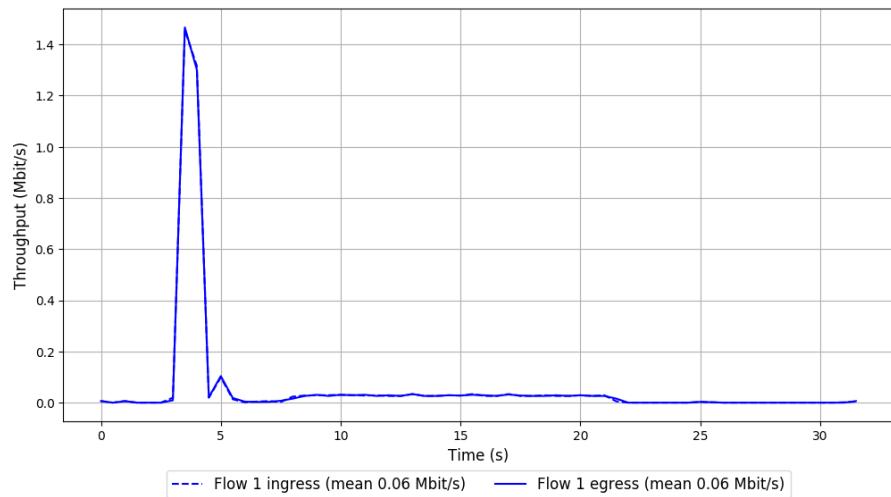


```
Run 10: Statistics of WebRTC media
```

```
Start at: 2018-04-17 08:31:34
End at: 2018-04-17 08:32:04
Local clock offset: 0.568 ms
Remote clock offset: 0.91 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 167.784 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 167.784 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link

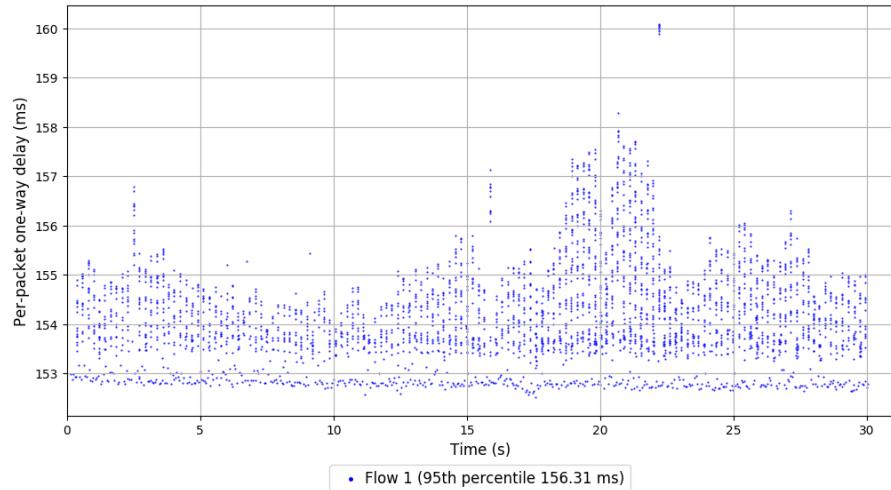
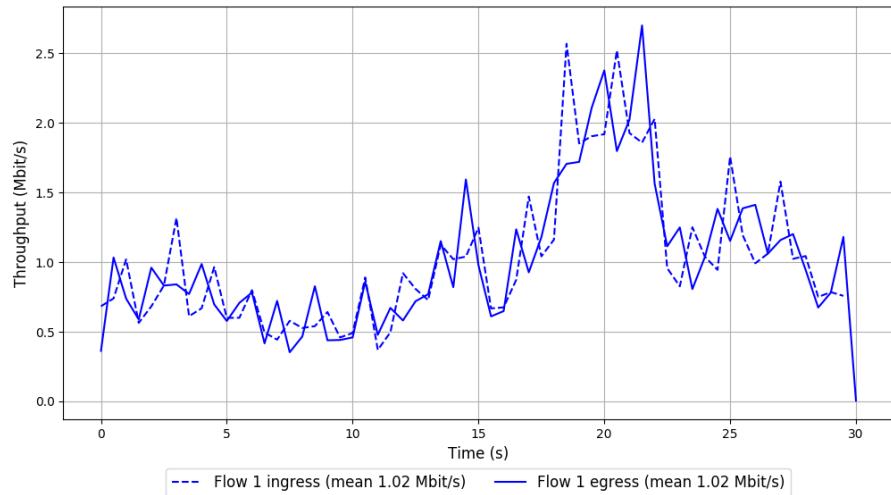


Run 1: Statistics of Sprout

```
Start at: 2018-04-17 05:10:14
End at: 2018-04-17 05:10:44
Local clock offset: 3.946 ms
Remote clock offset: -13.958 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.02 Mbit/s
95th percentile per-packet one-way delay: 156.312 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.02 Mbit/s
95th percentile per-packet one-way delay: 156.312 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

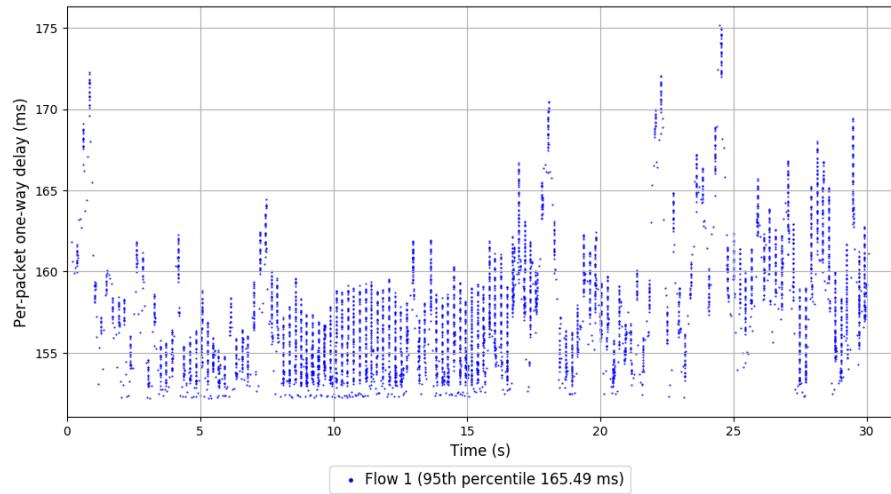
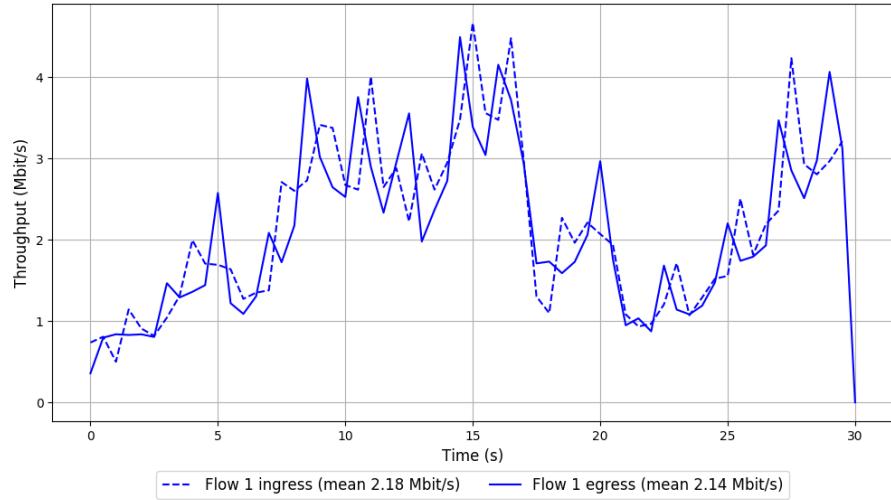


Run 2: Statistics of Sprout

```
Start at: 2018-04-17 05:31:22
End at: 2018-04-17 05:31:52
Local clock offset: 7.471 ms
Remote clock offset: 4.878 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 165.485 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 165.485 ms
Loss rate: 1.80%
```

Run 2: Report of Sprout — Data Link

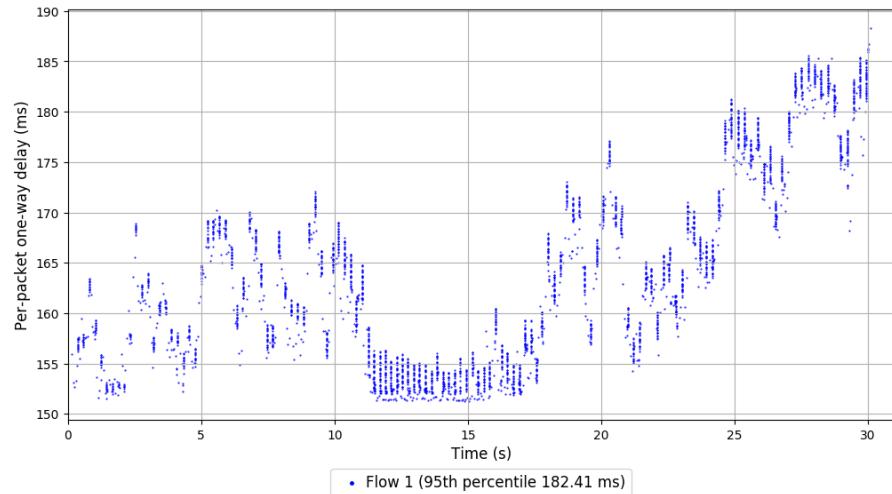
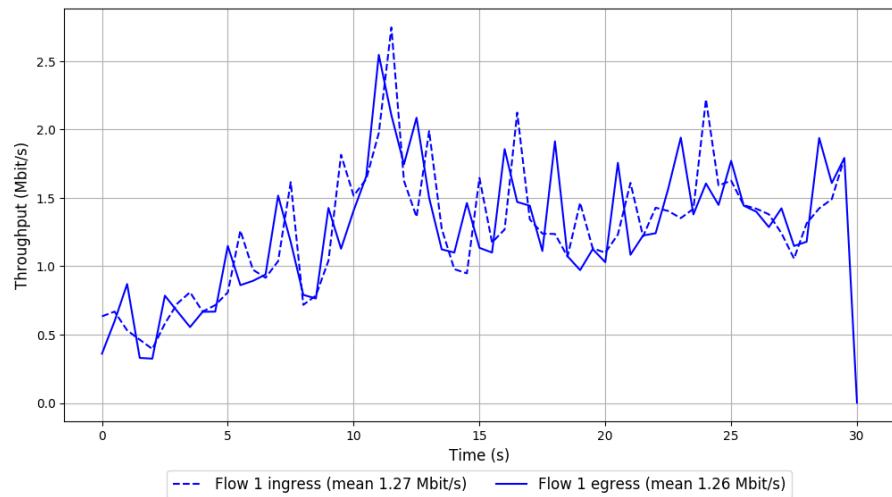


Run 3: Statistics of Sprout

```
Start at: 2018-04-17 05:52:39
End at: 2018-04-17 05:53:09
Local clock offset: 12.922 ms
Remote clock offset: -5.145 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 182.415 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 182.415 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

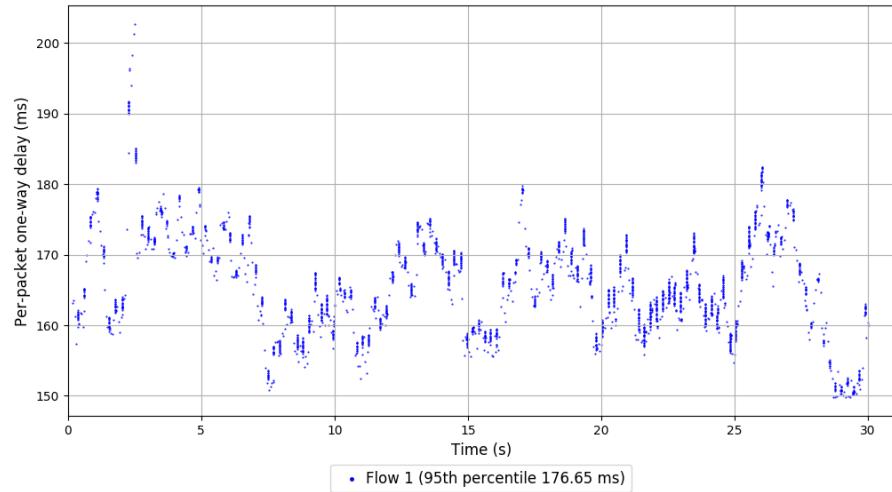
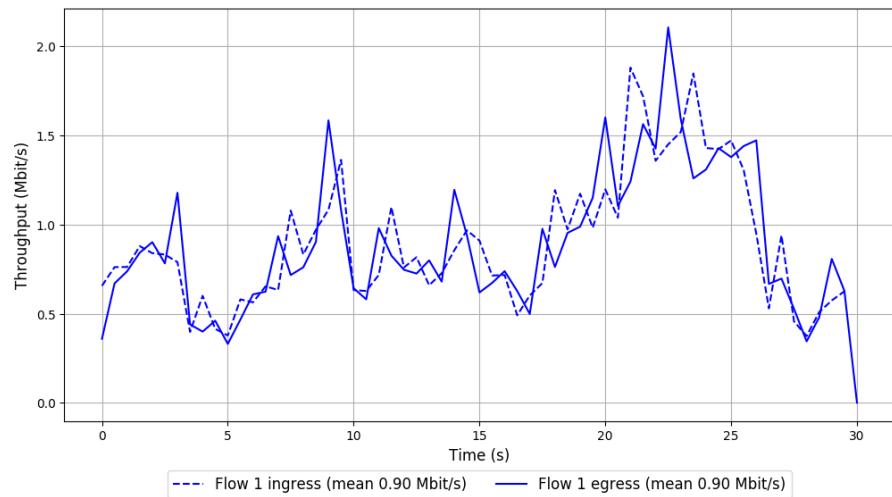


Run 4: Statistics of Sprout

```
Start at: 2018-04-17 06:13:50
End at: 2018-04-17 06:14:20
Local clock offset: 8.92 ms
Remote clock offset: -16.404 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 176.650 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 176.650 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

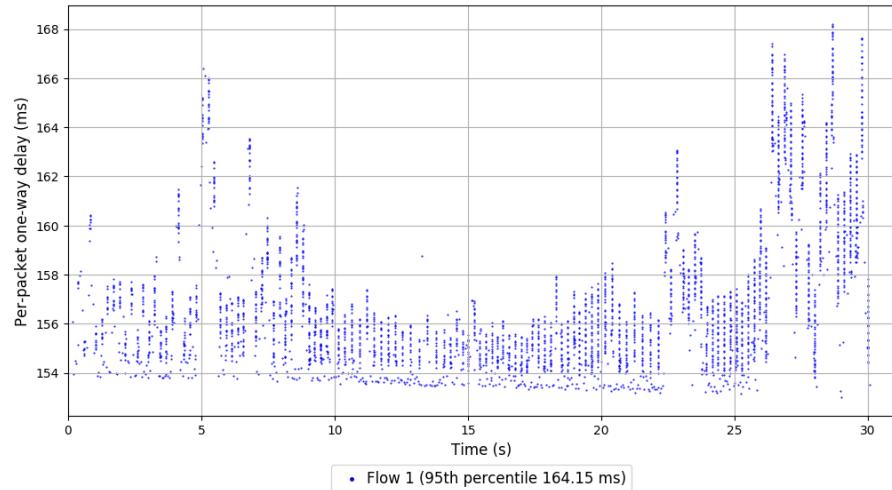
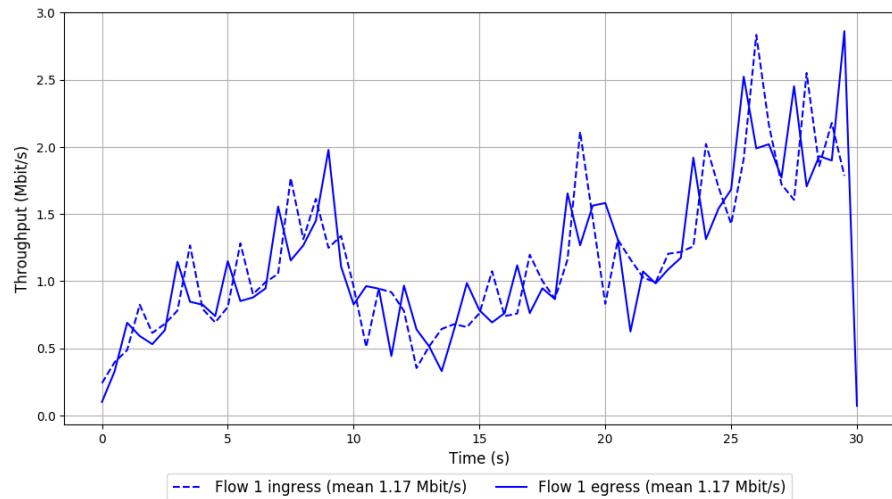


Run 5: Statistics of Sprout

```
Start at: 2018-04-17 06:34:59
End at: 2018-04-17 06:35:29
Local clock offset: 6.494 ms
Remote clock offset: 0.248 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.17 Mbit/s
95th percentile per-packet one-way delay: 164.150 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.17 Mbit/s
95th percentile per-packet one-way delay: 164.150 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

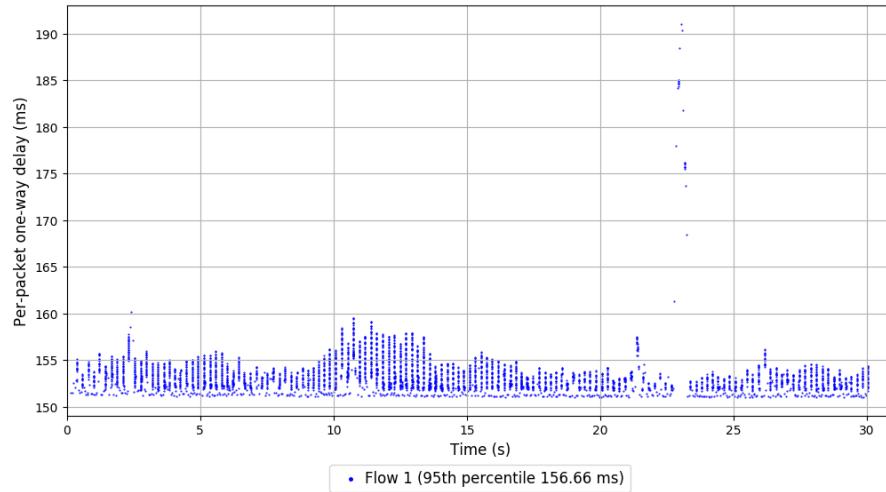
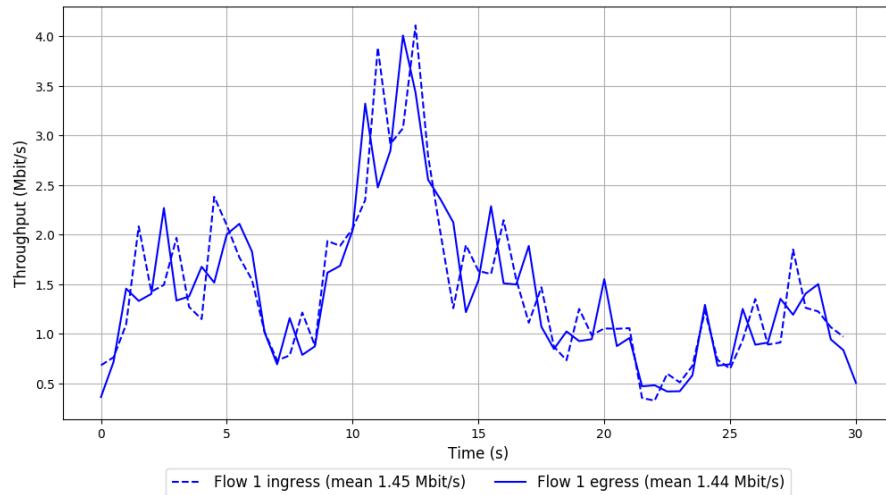


Run 6: Statistics of Sprout

```
Start at: 2018-04-17 07:01:57
End at: 2018-04-17 07:02:27
Local clock offset: -2.094 ms
Remote clock offset: 10.733 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 156.662 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 156.662 ms
Loss rate: 0.28%
```

Run 6: Report of Sprout — Data Link

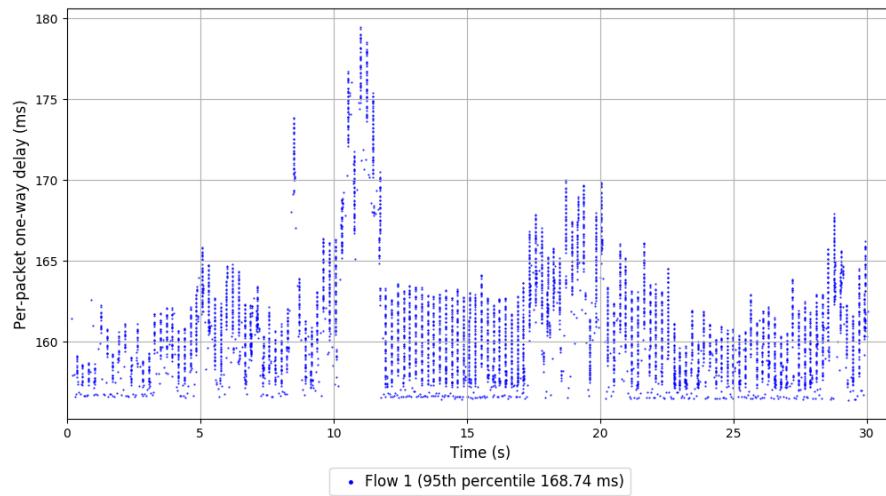
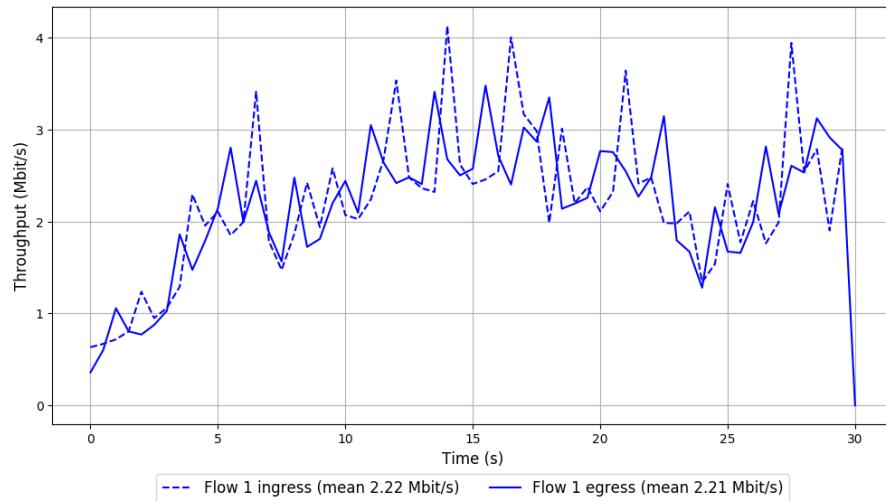


Run 7: Statistics of Sprout

```
Start at: 2018-04-17 07:23:50
End at: 2018-04-17 07:24:20
Local clock offset: 6.028 ms
Remote clock offset: 2.992 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 168.744 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 168.744 ms
Loss rate: 0.65%
```

Run 7: Report of Sprout — Data Link

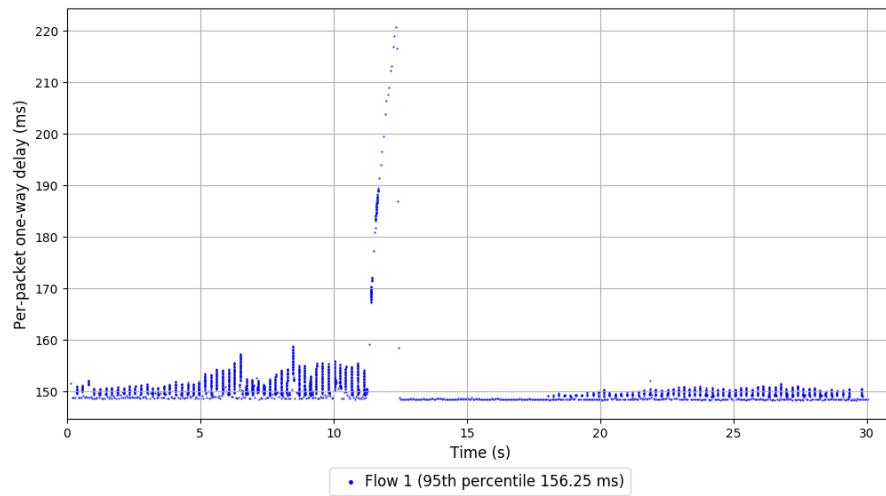
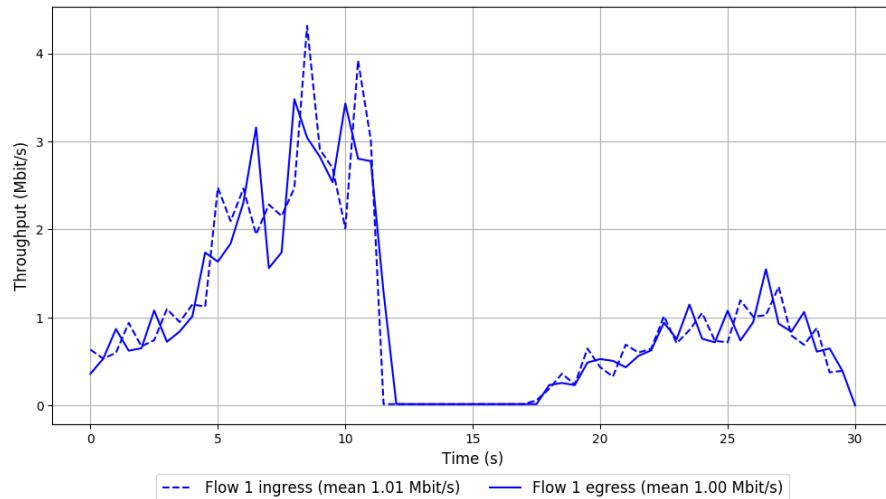


Run 8: Statistics of Sprout

```
Start at: 2018-04-17 07:45:44
End at: 2018-04-17 07:46:14
Local clock offset: 7.038 ms
Remote clock offset: 7.159 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.00 Mbit/s
95th percentile per-packet one-way delay: 156.255 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 1.00 Mbit/s
95th percentile per-packet one-way delay: 156.255 ms
Loss rate: 0.57%
```

Run 8: Report of Sprout — Data Link

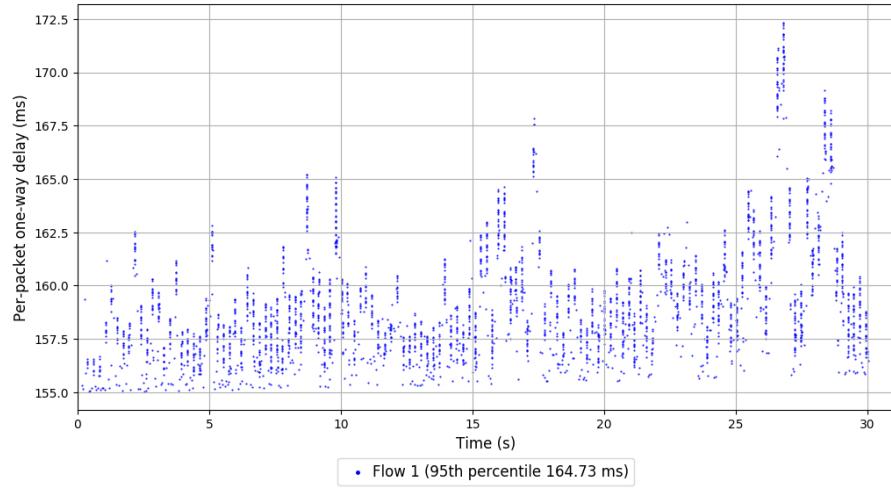
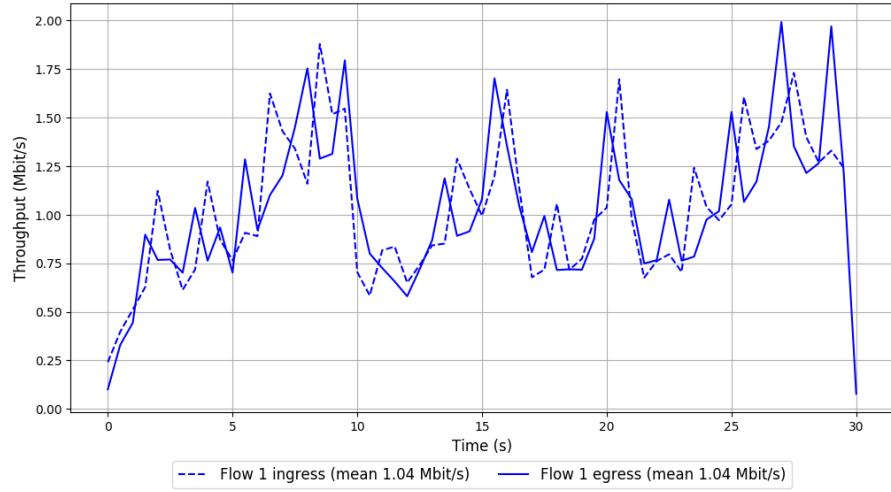


Run 9: Statistics of Sprout

```
Start at: 2018-04-17 08:08:15
End at: 2018-04-17 08:08:45
Local clock offset: 6.326 ms
Remote clock offset: 12.591 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 164.734 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 164.734 ms
Loss rate: 0.00%
```

Run 9: Report of Sprout — Data Link

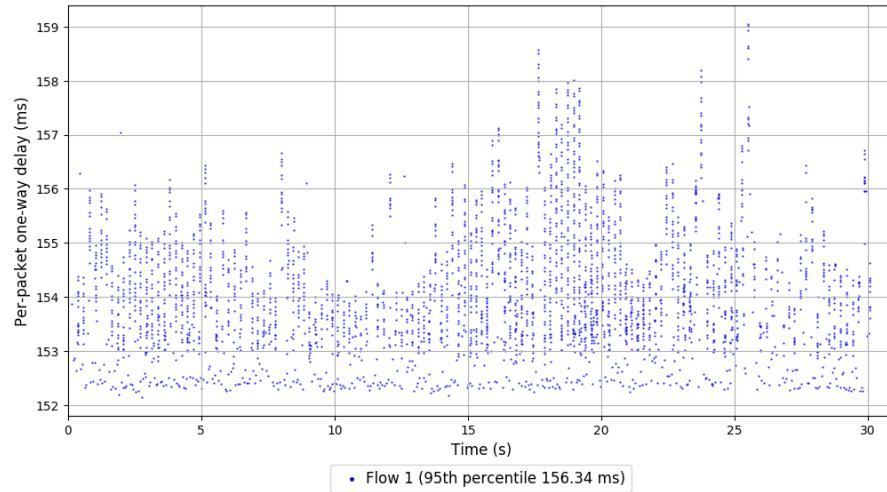
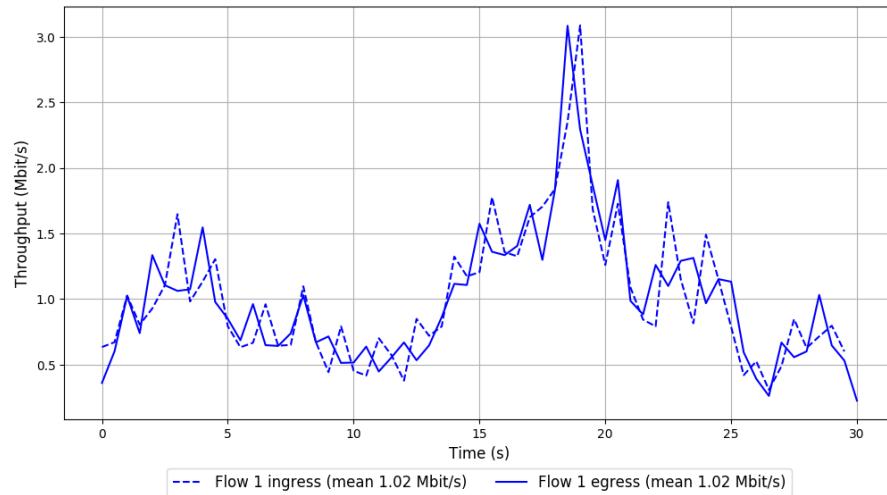


Run 10: Statistics of Sprout

```
Start at: 2018-04-17 08:29:25
End at: 2018-04-17 08:29:55
Local clock offset: 1.034 ms
Remote clock offset: 1.262 ms

# Below is generated by plot.py at 2018-04-17 08:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.02 Mbit/s
95th percentile per-packet one-way delay: 156.344 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.02 Mbit/s
95th percentile per-packet one-way delay: 156.344 ms
Loss rate: 0.00%
```

Run 10: Report of Sprout — Data Link

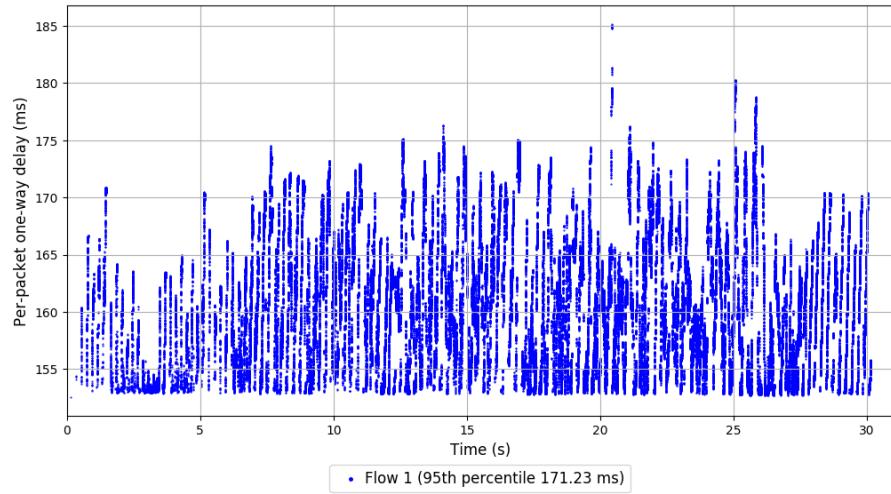
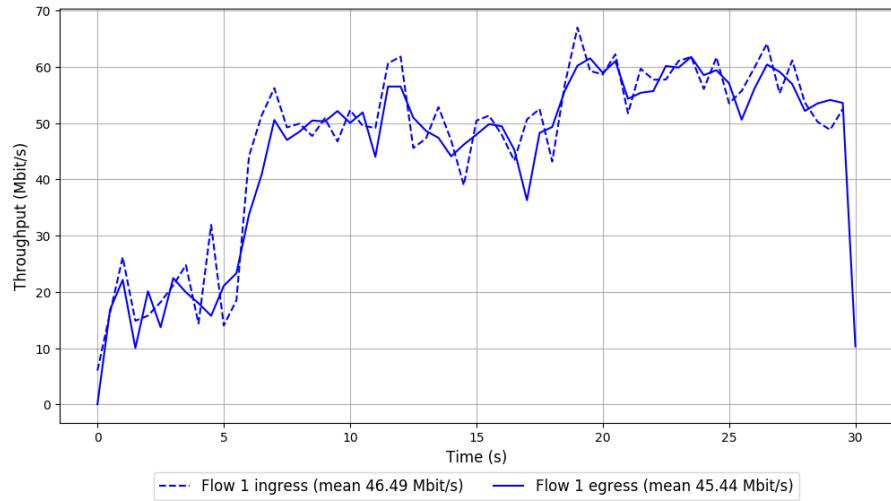


Run 1: Statistics of TaoVA-100x

```
Start at: 2018-04-17 04:57:43
End at: 2018-04-17 04:58:13
Local clock offset: 7.497 ms
Remote clock offset: -13.557 ms

# Below is generated by plot.py at 2018-04-17 09:00:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.44 Mbit/s
95th percentile per-packet one-way delay: 171.232 ms
Loss rate: 2.25%
-- Flow 1:
Average throughput: 45.44 Mbit/s
95th percentile per-packet one-way delay: 171.232 ms
Loss rate: 2.25%
```

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

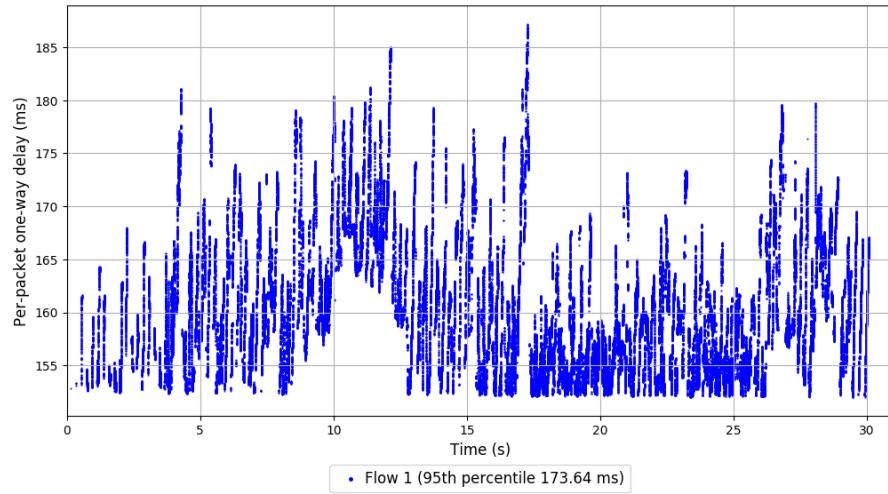
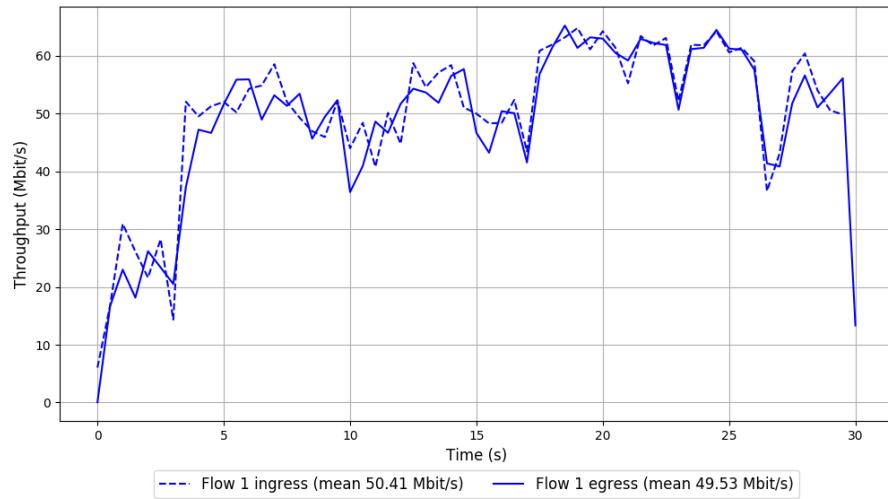


Run 2: Statistics of TaoVA-100x

```
Start at: 2018-04-17 05:18:55
End at: 2018-04-17 05:19:25
Local clock offset: 2.999 ms
Remote clock offset: -7.043 ms

# Below is generated by plot.py at 2018-04-17 09:00:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.53 Mbit/s
95th percentile per-packet one-way delay: 173.636 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 49.53 Mbit/s
95th percentile per-packet one-way delay: 173.636 ms
Loss rate: 1.68%
```

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

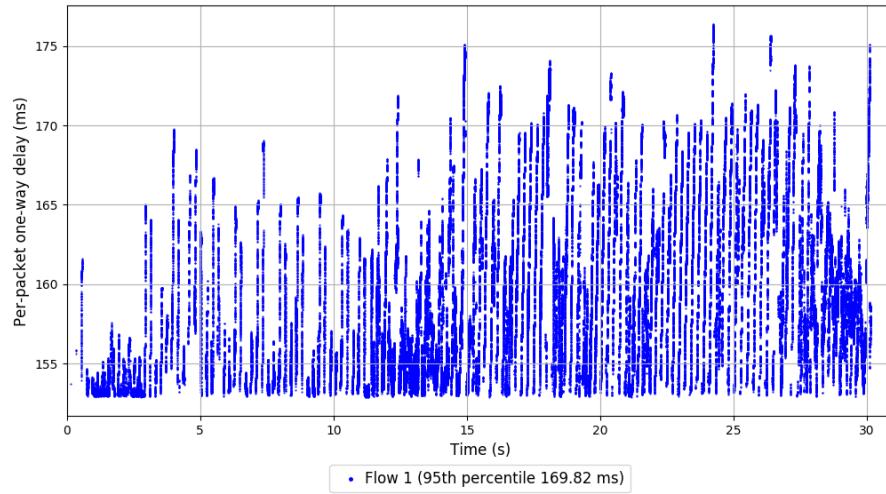
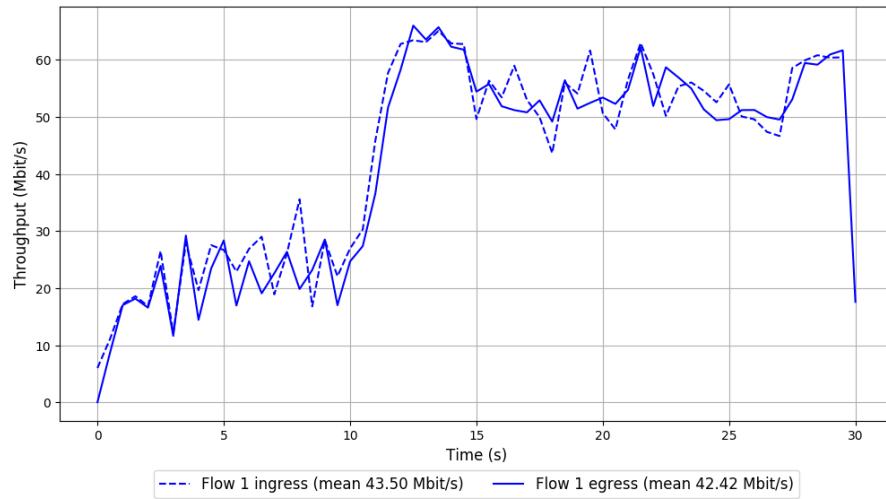


Run 3: Statistics of TaoVA-100x

```
Start at: 2018-04-17 05:40:07
End at: 2018-04-17 05:40:37
Local clock offset: 10.429 ms
Remote clock offset: -15.931 ms

# Below is generated by plot.py at 2018-04-17 09:00:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.42 Mbit/s
95th percentile per-packet one-way delay: 169.825 ms
Loss rate: 2.48%
-- Flow 1:
Average throughput: 42.42 Mbit/s
95th percentile per-packet one-way delay: 169.825 ms
Loss rate: 2.48%
```

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

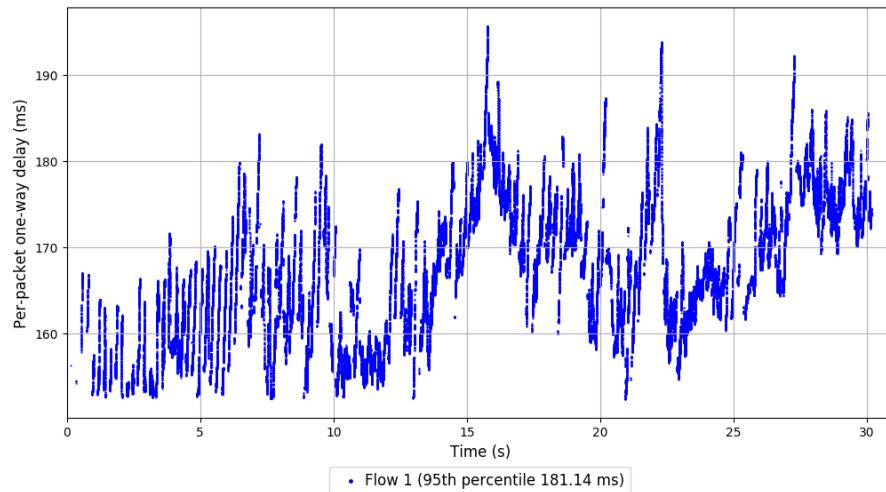
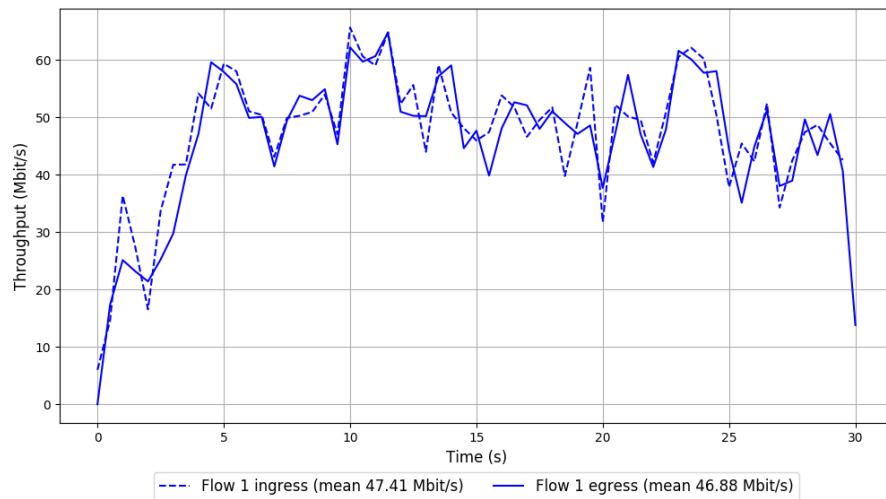


Run 4: Statistics of TaoVA-100x

```
Start at: 2018-04-17 06:01:19
End at: 2018-04-17 06:01:49
Local clock offset: 11.866 ms
Remote clock offset: 4.912 ms

# Below is generated by plot.py at 2018-04-17 09:00:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.88 Mbit/s
95th percentile per-packet one-way delay: 181.138 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 46.88 Mbit/s
95th percentile per-packet one-way delay: 181.138 ms
Loss rate: 1.06%
```

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

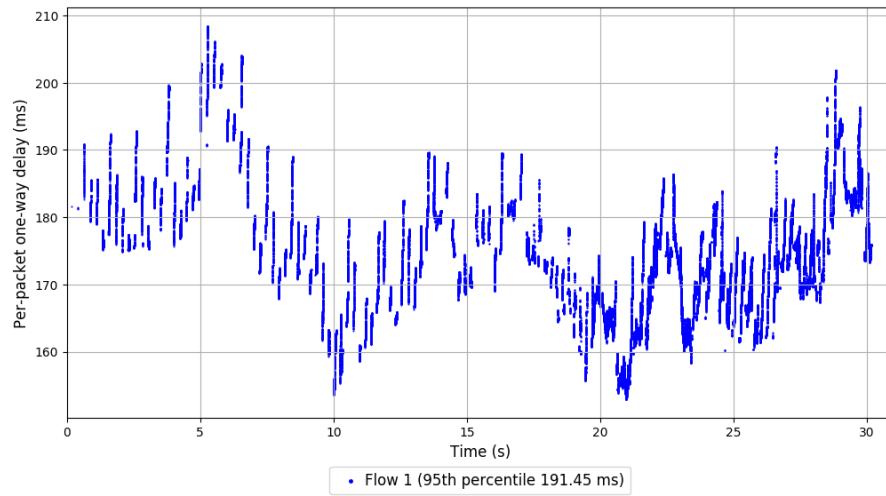
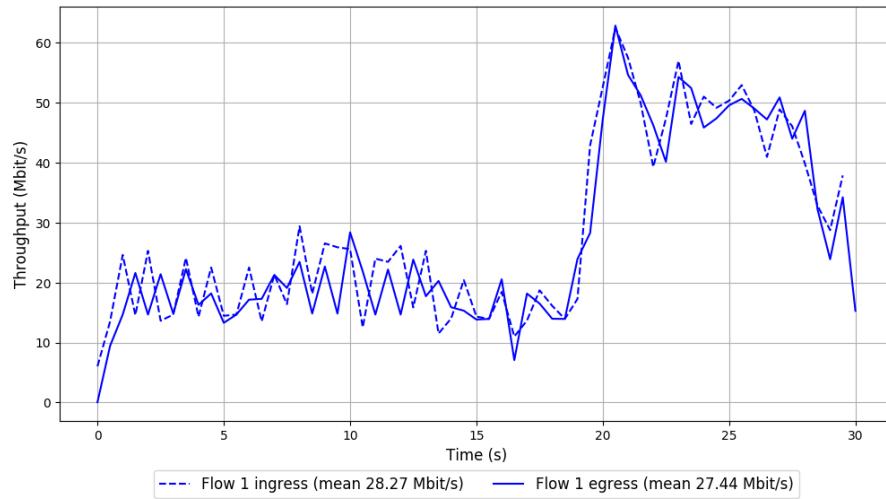


Run 5: Statistics of TaoVA-100x

```
Start at: 2018-04-17 06:22:35
End at: 2018-04-17 06:23:05
Local clock offset: 8.413 ms
Remote clock offset: -14.955 ms

# Below is generated by plot.py at 2018-04-17 09:00:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.44 Mbit/s
95th percentile per-packet one-way delay: 191.450 ms
Loss rate: 2.97%
-- Flow 1:
Average throughput: 27.44 Mbit/s
95th percentile per-packet one-way delay: 191.450 ms
Loss rate: 2.97%
```

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

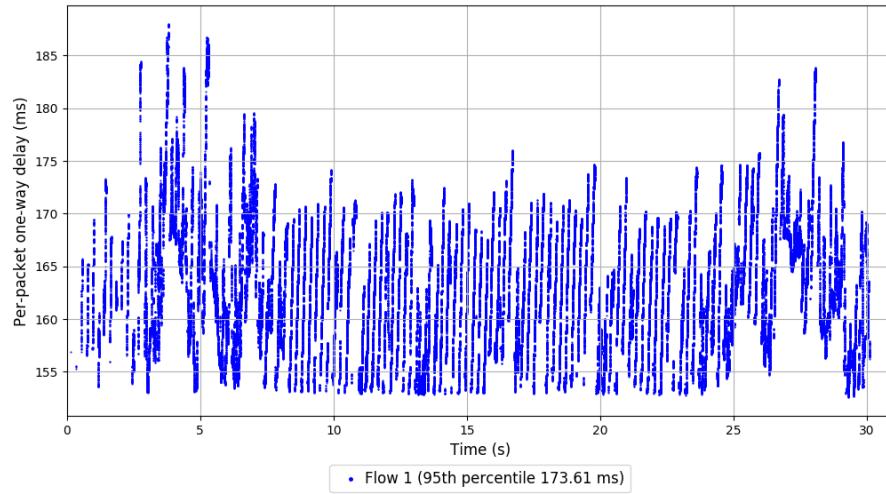
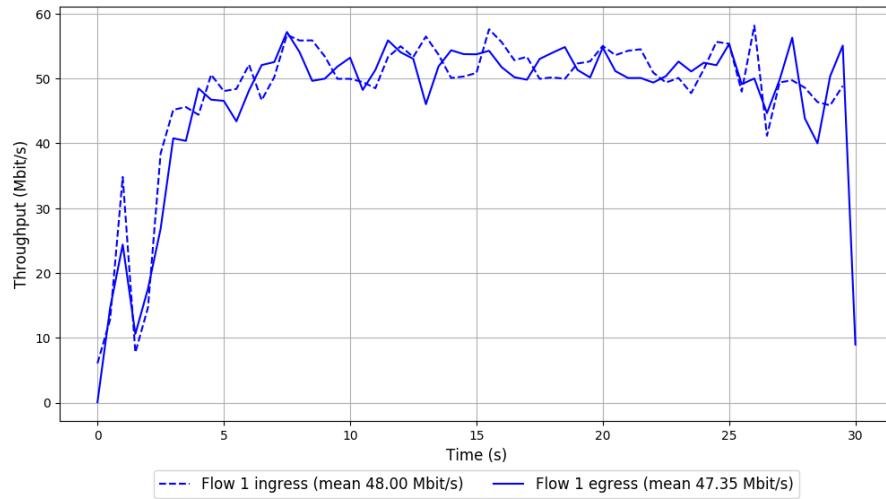


Run 6: Statistics of TaoVA-100x

```
Start at: 2018-04-17 06:49:24
End at: 2018-04-17 06:49:54
Local clock offset: 0.45 ms
Remote clock offset: 4.507 ms

# Below is generated by plot.py at 2018-04-17 09:00:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.35 Mbit/s
95th percentile per-packet one-way delay: 173.607 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 47.35 Mbit/s
95th percentile per-packet one-way delay: 173.607 ms
Loss rate: 1.35%
```

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

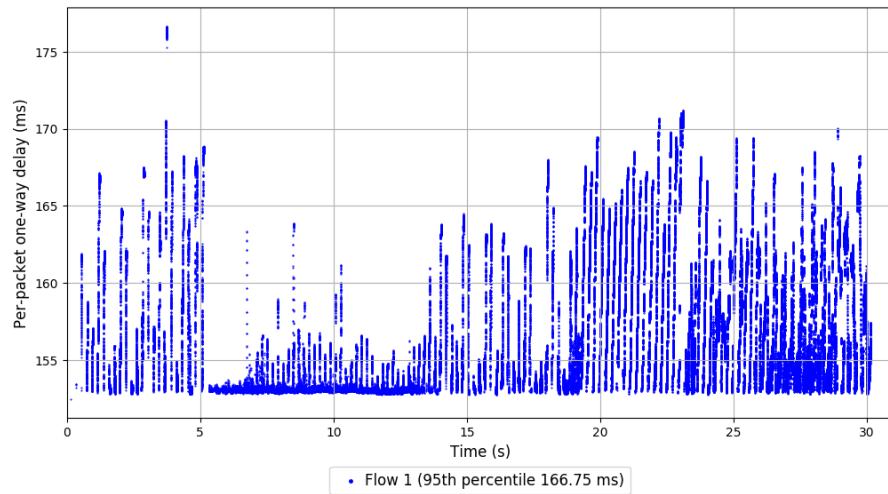
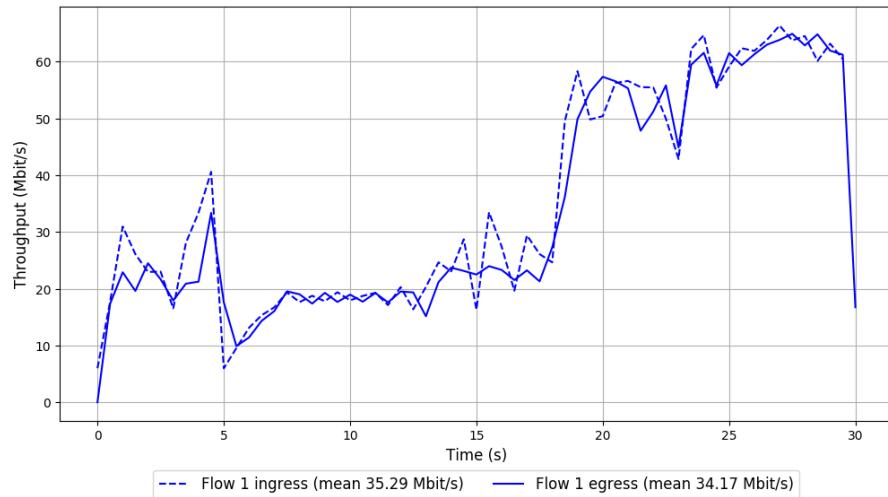


Run 7: Statistics of TaoVA-100x

```
Start at: 2018-04-17 07:11:21
End at: 2018-04-17 07:11:51
Local clock offset: 1.413 ms
Remote clock offset: -3.723 ms

# Below is generated by plot.py at 2018-04-17 09:00:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.17 Mbit/s
95th percentile per-packet one-way delay: 166.745 ms
Loss rate: 3.14%
-- Flow 1:
Average throughput: 34.17 Mbit/s
95th percentile per-packet one-way delay: 166.745 ms
Loss rate: 3.14%
```

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

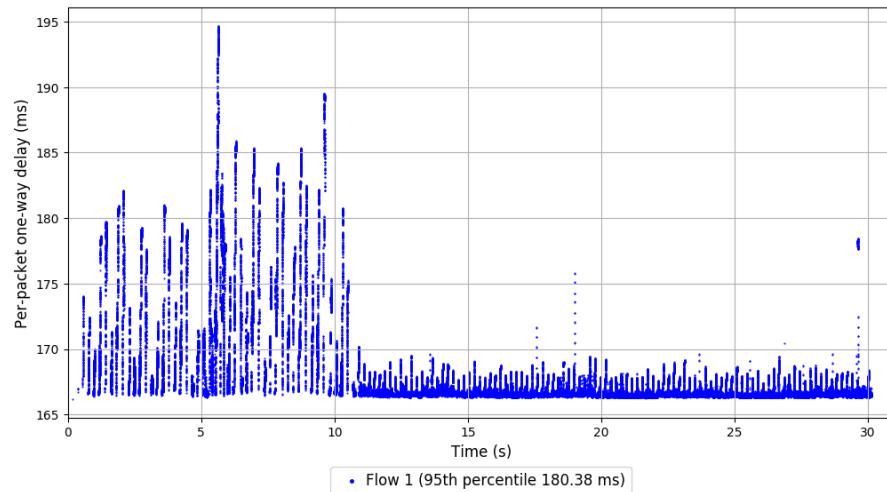
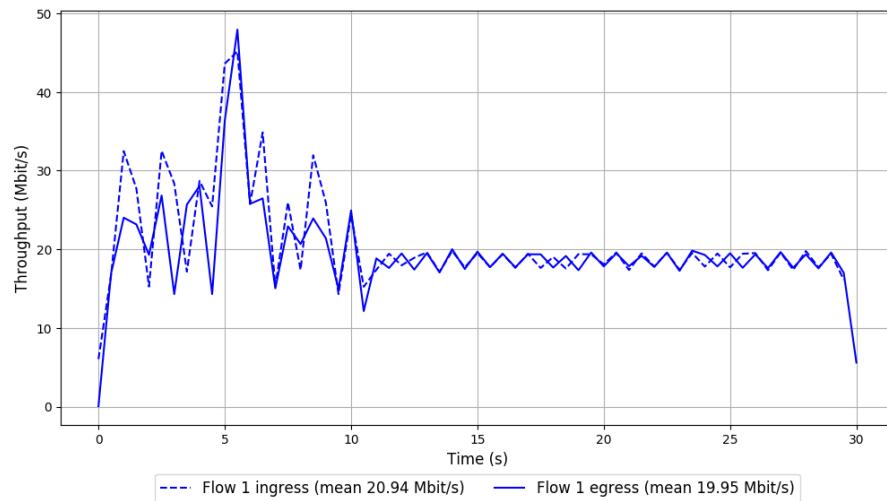


Run 8: Statistics of TaoVA-100x

```
Start at: 2018-04-17 07:32:40
End at: 2018-04-17 07:33:10
Local clock offset: 7.004 ms
Remote clock offset: 18.465 ms

# Below is generated by plot.py at 2018-04-17 09:00:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.95 Mbit/s
95th percentile per-packet one-way delay: 180.379 ms
Loss rate: 4.70%
-- Flow 1:
Average throughput: 19.95 Mbit/s
95th percentile per-packet one-way delay: 180.379 ms
Loss rate: 4.70%
```

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

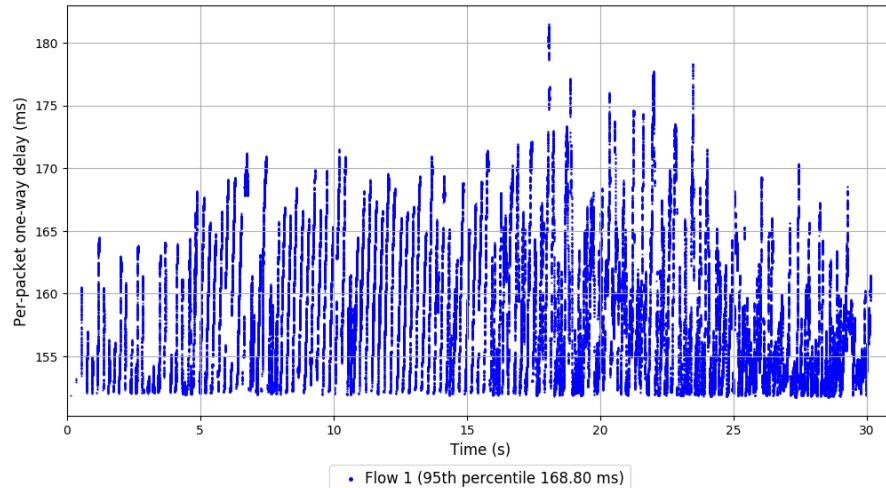
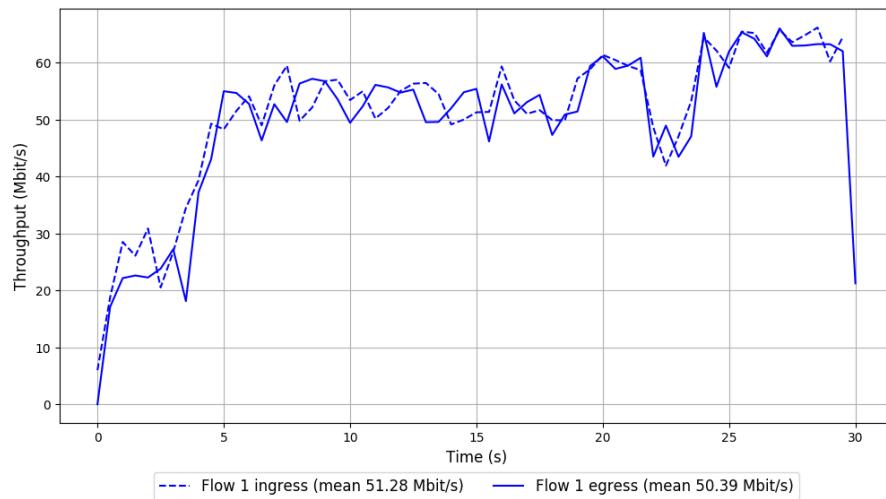


Run 9: Statistics of TaoVA-100x

```
Start at: 2018-04-17 07:54:31
End at: 2018-04-17 07:55:01
Local clock offset: 6.689 ms
Remote clock offset: 14.443 ms

# Below is generated by plot.py at 2018-04-17 09:01:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.39 Mbit/s
95th percentile per-packet one-way delay: 168.796 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 50.39 Mbit/s
95th percentile per-packet one-way delay: 168.796 ms
Loss rate: 1.71%
```

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

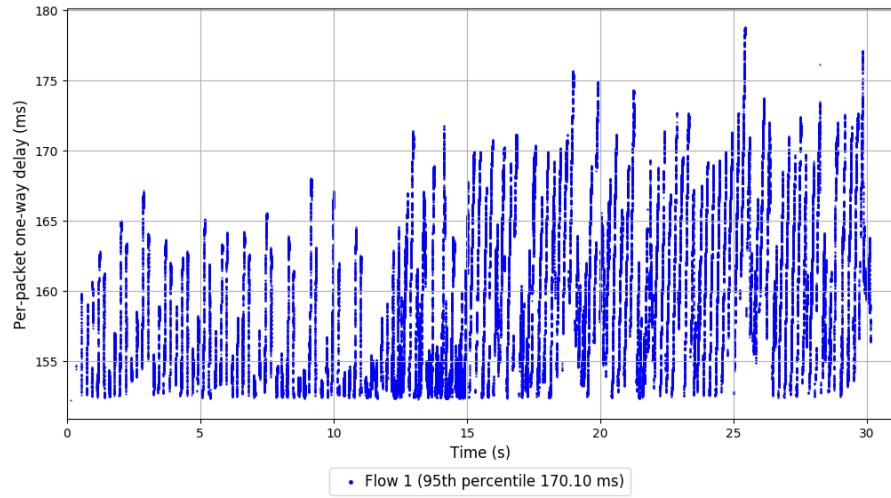
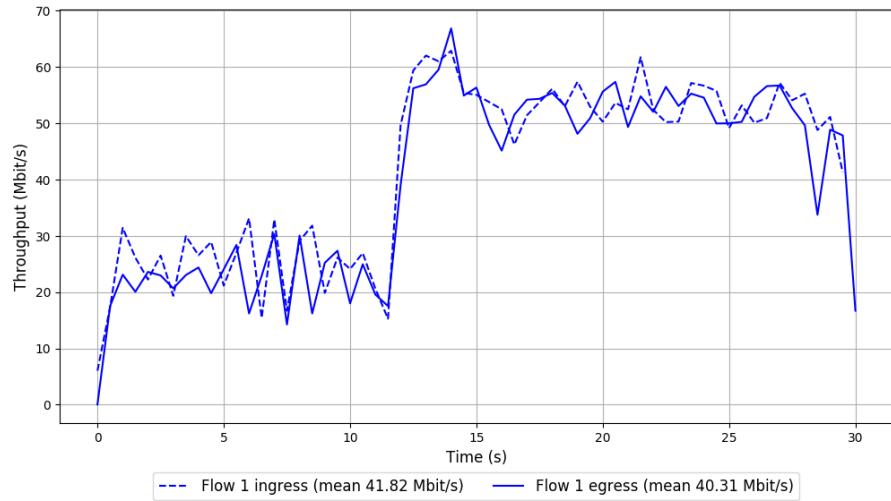


Run 10: Statistics of TaoVA-100x

```
Start at: 2018-04-17 08:16:58
End at: 2018-04-17 08:17:28
Local clock offset: 5.029 ms
Remote clock offset: 4.211 ms

# Below is generated by plot.py at 2018-04-17 09:01:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.31 Mbit/s
95th percentile per-packet one-way delay: 170.099 ms
Loss rate: 3.59%
-- Flow 1:
Average throughput: 40.31 Mbit/s
95th percentile per-packet one-way delay: 170.099 ms
Loss rate: 3.59%
```

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

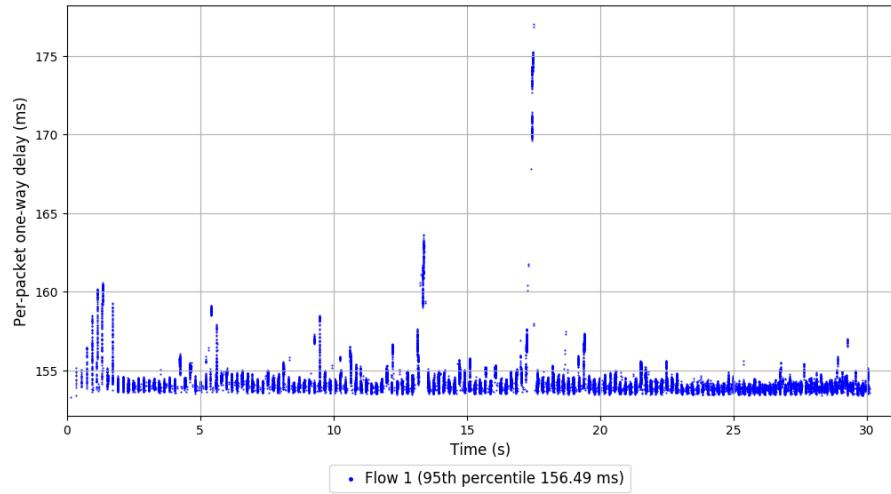
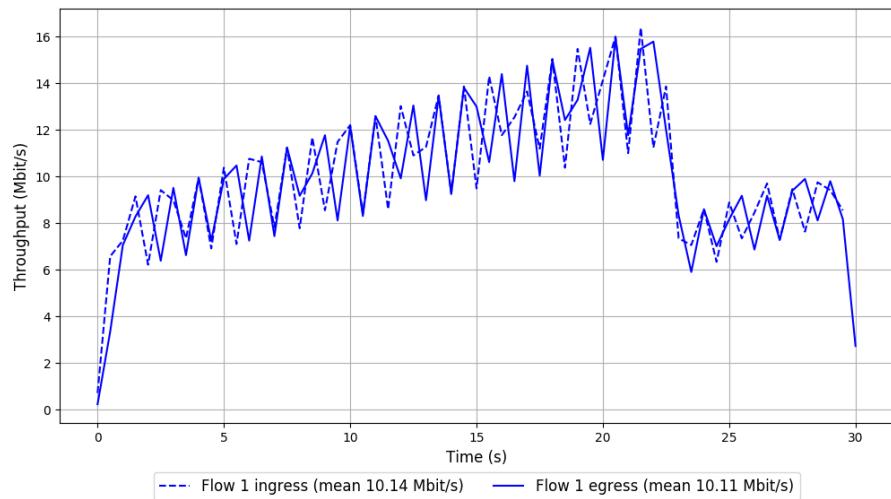


Run 1: Statistics of TCP Vegas

```
Start at: 2018-04-17 05:00:16
End at: 2018-04-17 05:00:46
Local clock offset: 6.275 ms
Remote clock offset: -13.738 ms

# Below is generated by plot.py at 2018-04-17 09:01:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.11 Mbit/s
95th percentile per-packet one-way delay: 156.486 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 10.11 Mbit/s
95th percentile per-packet one-way delay: 156.486 ms
Loss rate: 0.28%
```

Run 1: Report of TCP Vegas — Data Link

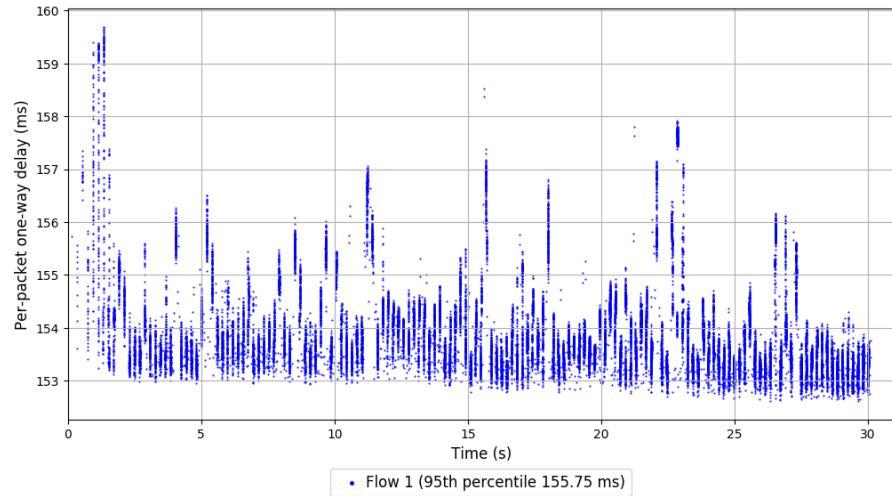
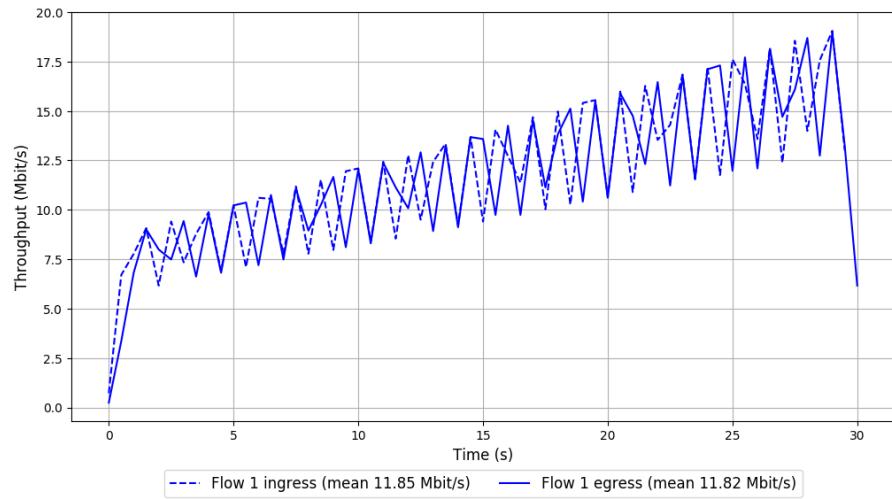


Run 2: Statistics of TCP Vegas

```
Start at: 2018-04-17 05:21:27
End at: 2018-04-17 05:21:57
Local clock offset: 2.857 ms
Remote clock offset: -4.426 ms

# Below is generated by plot.py at 2018-04-17 09:01:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.82 Mbit/s
95th percentile per-packet one-way delay: 155.753 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 11.82 Mbit/s
95th percentile per-packet one-way delay: 155.753 ms
Loss rate: 0.25%
```

Run 2: Report of TCP Vegas — Data Link

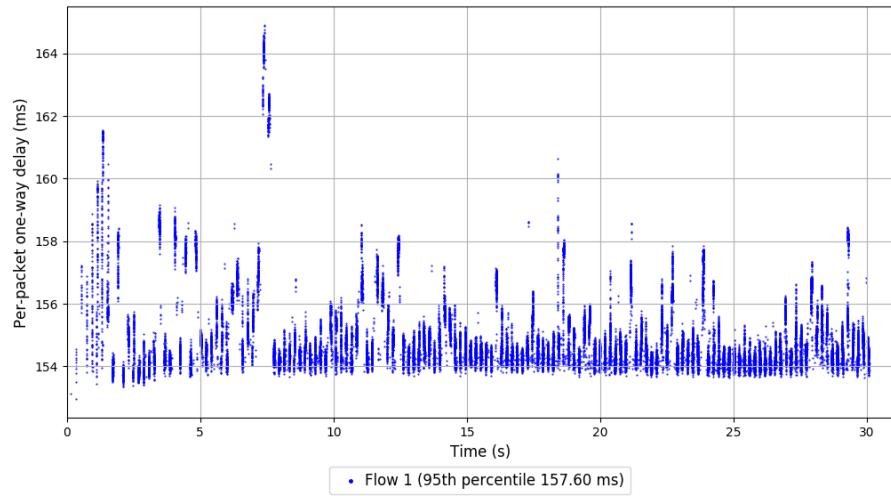
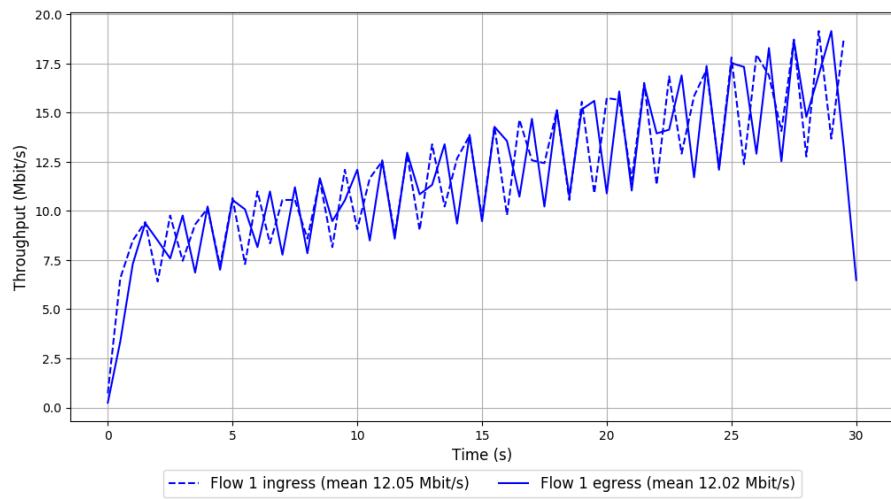


Run 3: Statistics of TCP Vegas

```
Start at: 2018-04-17 05:42:41
End at: 2018-04-17 05:43:11
Local clock offset: 11.21 ms
Remote clock offset: -15.273 ms

# Below is generated by plot.py at 2018-04-17 09:01:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.02 Mbit/s
95th percentile per-packet one-way delay: 157.604 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 12.02 Mbit/s
95th percentile per-packet one-way delay: 157.604 ms
Loss rate: 0.25%
```

Run 3: Report of TCP Vegas — Data Link

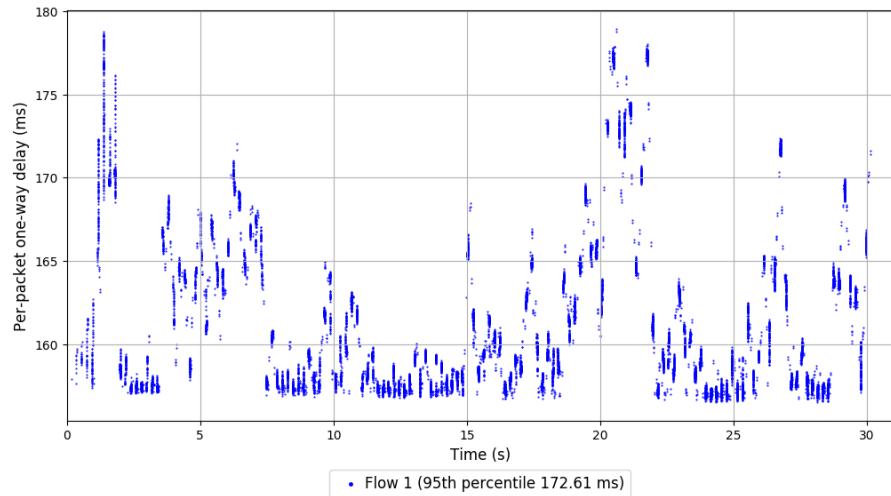
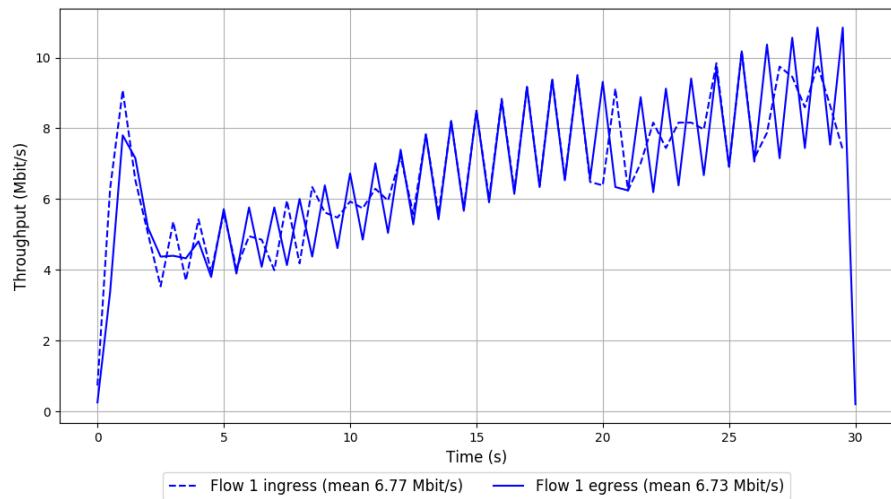


Run 4: Statistics of TCP Vegas

```
Start at: 2018-04-17 06:03:53
End at: 2018-04-17 06:04:23
Local clock offset: 11.068 ms
Remote clock offset: 6.95 ms

# Below is generated by plot.py at 2018-04-17 09:01:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.73 Mbit/s
95th percentile per-packet one-way delay: 172.613 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 6.73 Mbit/s
95th percentile per-packet one-way delay: 172.613 ms
Loss rate: 0.55%
```

Run 4: Report of TCP Vegas — Data Link

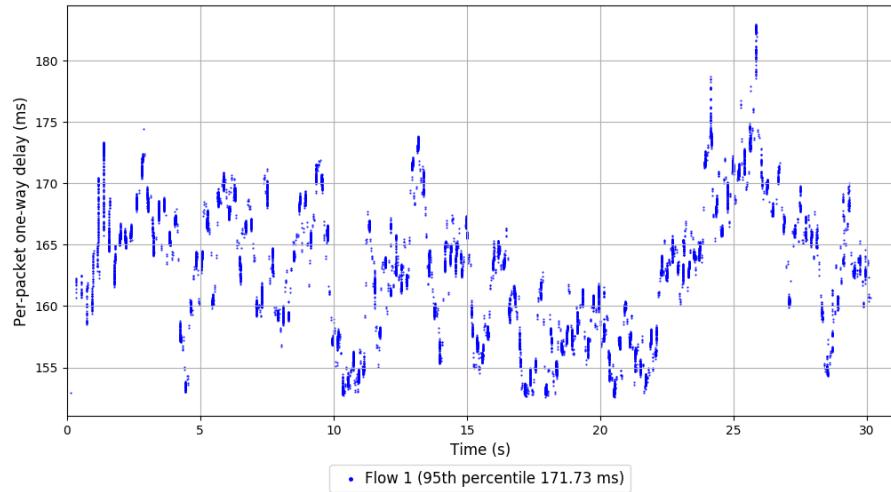
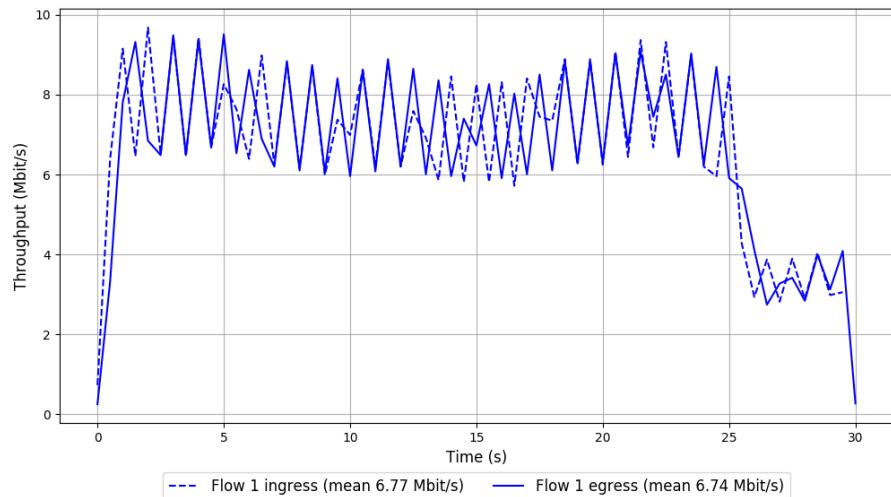


Run 5: Statistics of TCP Vegas

```
Start at: 2018-04-17 06:25:05
End at: 2018-04-17 06:25:35
Local clock offset: 8.417 ms
Remote clock offset: -10.706 ms

# Below is generated by plot.py at 2018-04-17 09:01:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.74 Mbit/s
95th percentile per-packet one-way delay: 171.730 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 6.74 Mbit/s
95th percentile per-packet one-way delay: 171.730 ms
Loss rate: 0.43%
```

Run 5: Report of TCP Vegas — Data Link

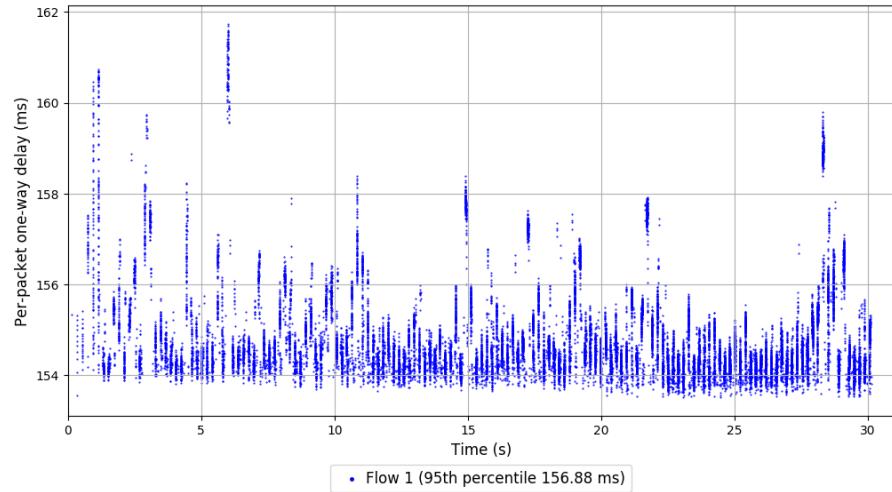
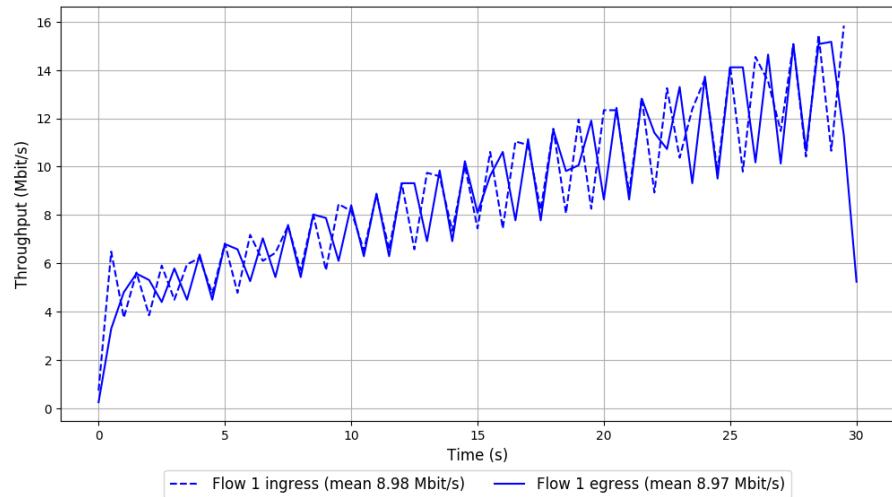


Run 6: Statistics of TCP Vegas

```
Start at: 2018-04-17 06:51:57
End at: 2018-04-17 06:52:27
Local clock offset: -0.377 ms
Remote clock offset: 6.371 ms

# Below is generated by plot.py at 2018-04-17 09:01:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.97 Mbit/s
95th percentile per-packet one-way delay: 156.876 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 8.97 Mbit/s
95th percentile per-packet one-way delay: 156.876 ms
Loss rate: 0.14%
```

Run 6: Report of TCP Vegas — Data Link

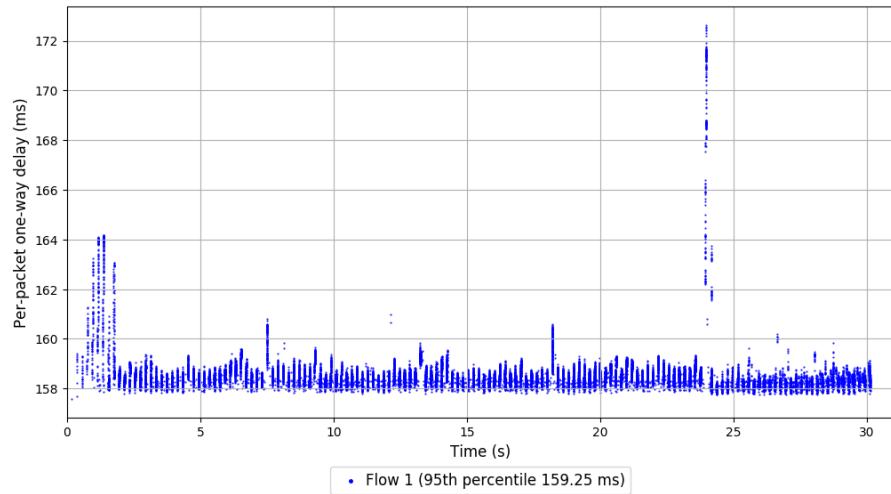
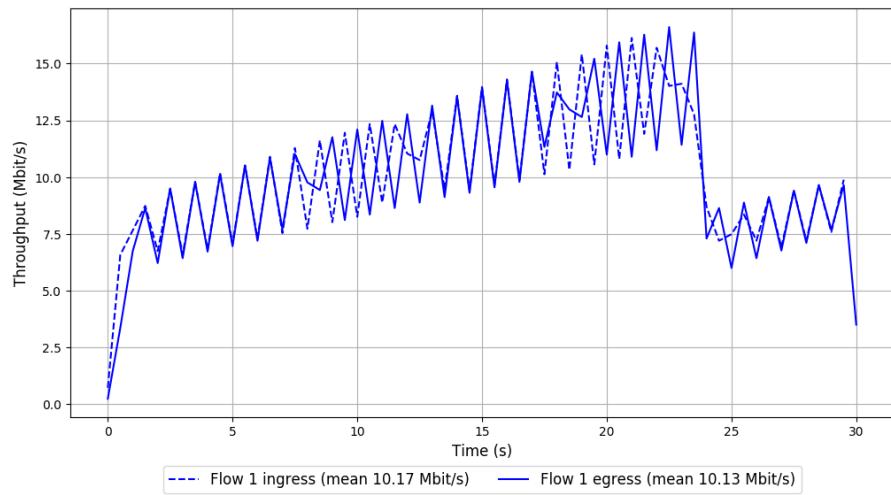


Run 7: Statistics of TCP Vegas

```
Start at: 2018-04-17 07:13:53
End at: 2018-04-17 07:14:23
Local clock offset: 2.936 ms
Remote clock offset: -2.442 ms

# Below is generated by plot.py at 2018-04-17 09:01:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.13 Mbit/s
95th percentile per-packet one-way delay: 159.247 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 10.13 Mbit/s
95th percentile per-packet one-way delay: 159.247 ms
Loss rate: 0.44%
```

Run 7: Report of TCP Vegas — Data Link

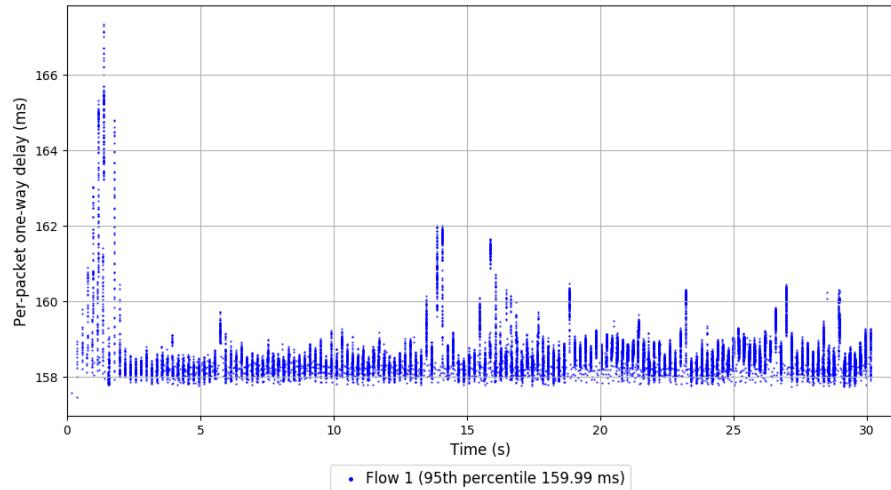
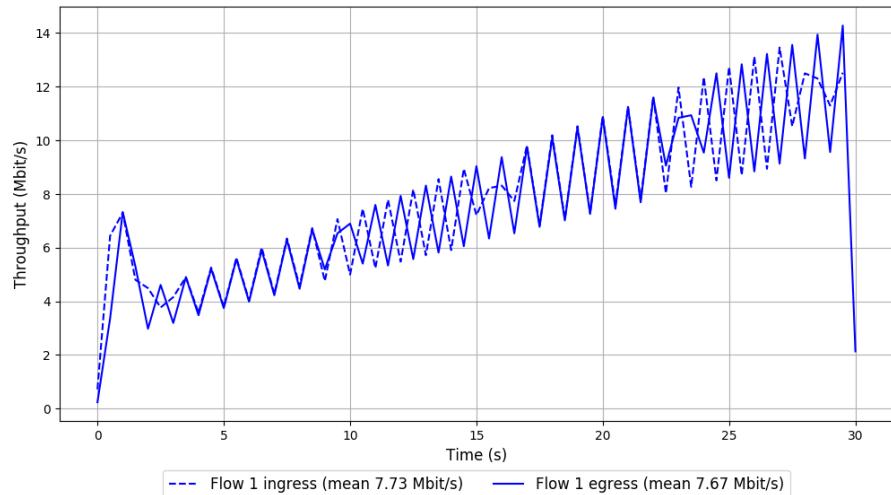


Run 8: Statistics of TCP Vegas

```
Start at: 2018-04-17 07:35:12
End at: 2018-04-17 07:35:42
Local clock offset: 7.298 ms
Remote clock offset: 7.305 ms

# Below is generated by plot.py at 2018-04-17 09:01:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.67 Mbit/s
95th percentile per-packet one-way delay: 159.985 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 7.67 Mbit/s
95th percentile per-packet one-way delay: 159.985 ms
Loss rate: 0.83%
```

Run 8: Report of TCP Vegas — Data Link

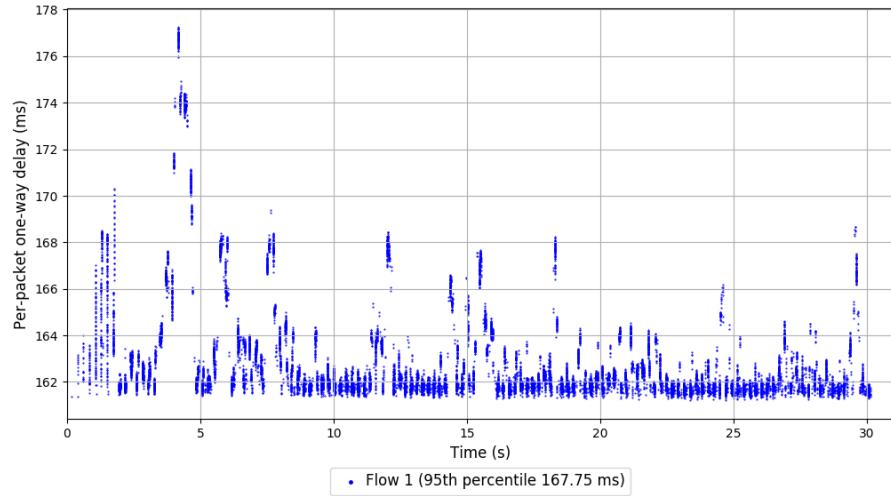
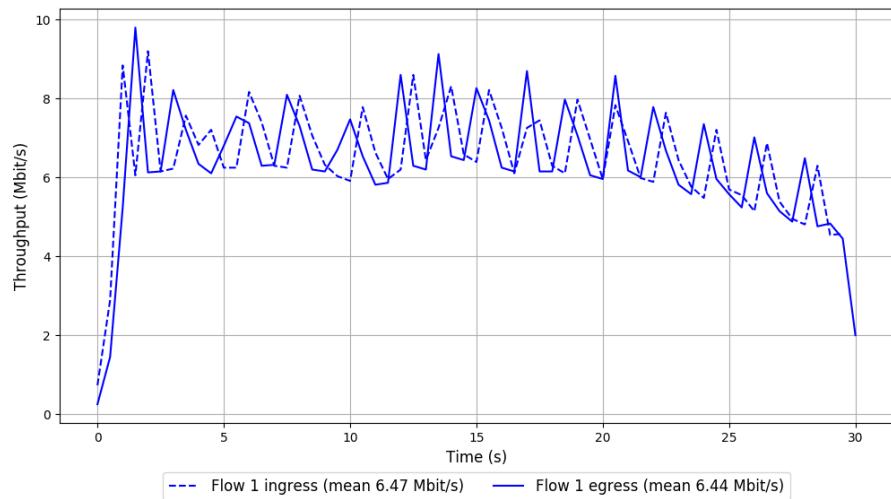


Run 9: Statistics of TCP Vegas

```
Start at: 2018-04-17 07:57:05
End at: 2018-04-17 07:57:35
Local clock offset: 6.611 ms
Remote clock offset: 20.167 ms

# Below is generated by plot.py at 2018-04-17 09:01:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.44 Mbit/s
95th percentile per-packet one-way delay: 167.755 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 6.44 Mbit/s
95th percentile per-packet one-way delay: 167.755 ms
Loss rate: 0.46%
```

Run 9: Report of TCP Vegas — Data Link

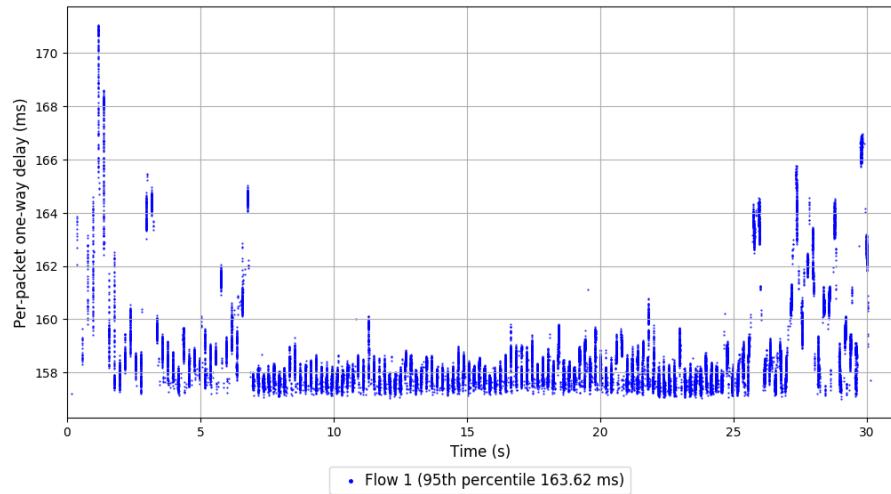
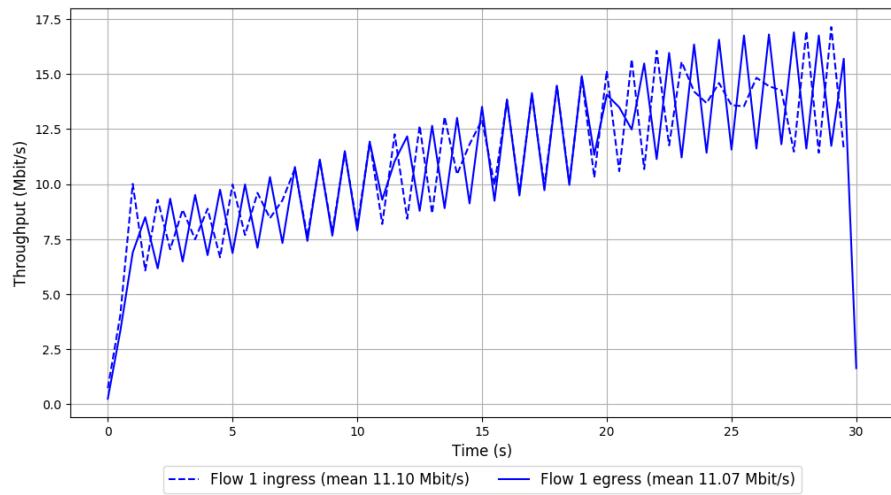


Run 10: Statistics of TCP Vegas

```
Start at: 2018-04-17 08:19:30
End at: 2018-04-17 08:20:00
Local clock offset: 3.914 ms
Remote clock offset: 3.046 ms

# Below is generated by plot.py at 2018-04-17 09:01:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.07 Mbit/s
95th percentile per-packet one-way delay: 163.616 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 11.07 Mbit/s
95th percentile per-packet one-way delay: 163.616 ms
Loss rate: 0.29%
```

Run 10: Report of TCP Vegas — Data Link

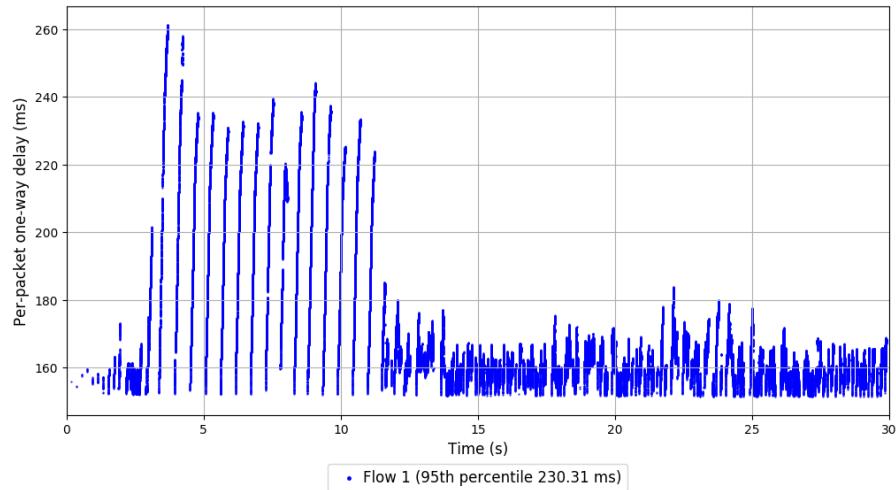
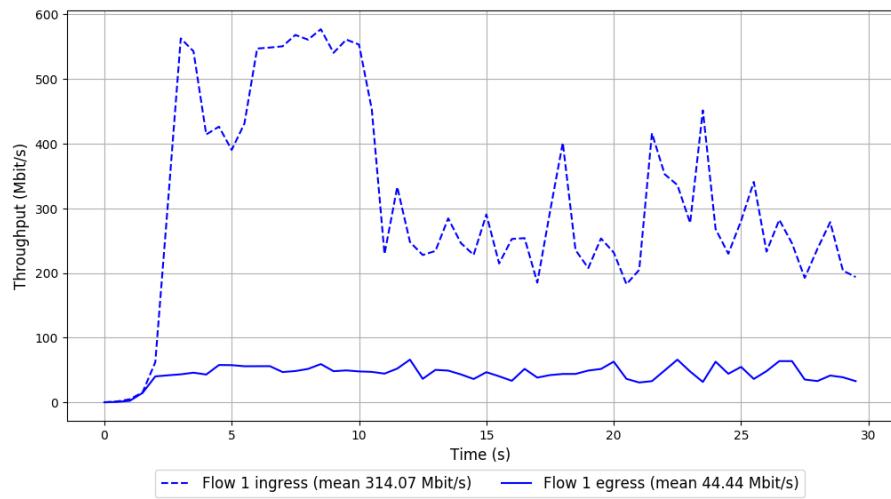


Run 1: Statistics of Verus

```
Start at: 2018-04-17 05:16:17
End at: 2018-04-17 05:16:47
Local clock offset: 3.449 ms
Remote clock offset: -10.319 ms

# Below is generated by plot.py at 2018-04-17 09:02:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.44 Mbit/s
95th percentile per-packet one-way delay: 230.307 ms
Loss rate: 85.85%
-- Flow 1:
Average throughput: 44.44 Mbit/s
95th percentile per-packet one-way delay: 230.307 ms
Loss rate: 85.85%
```

Run 1: Report of Verus — Data Link

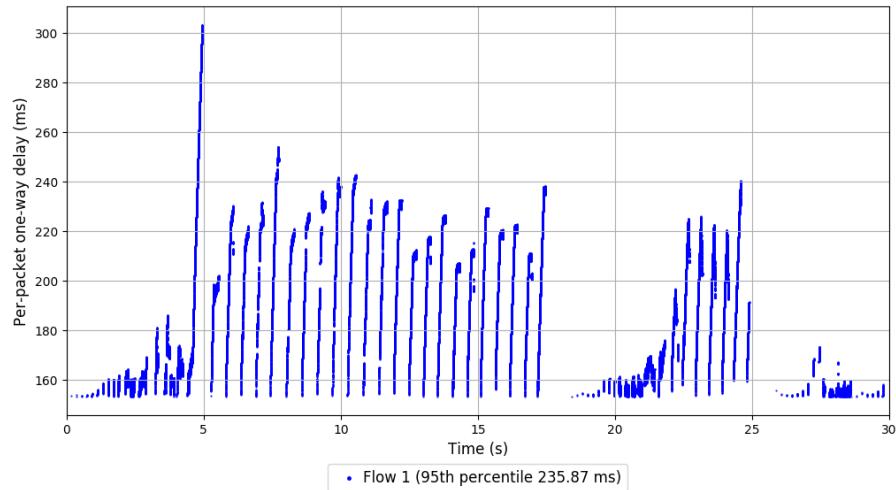
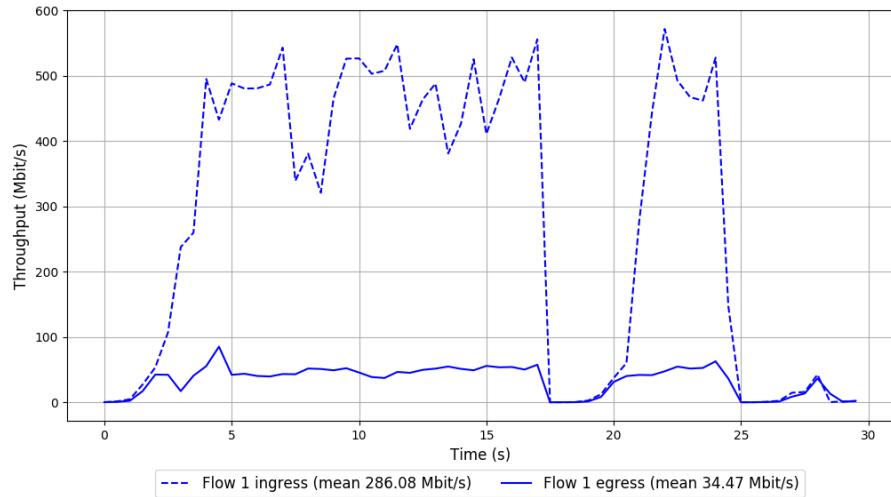


Run 2: Statistics of Verus

```
Start at: 2018-04-17 05:37:30
End at: 2018-04-17 05:38:00
Local clock offset: 9.848 ms
Remote clock offset: 7.022 ms

# Below is generated by plot.py at 2018-04-17 09:02:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.47 Mbit/s
95th percentile per-packet one-way delay: 235.872 ms
Loss rate: 87.95%
-- Flow 1:
Average throughput: 34.47 Mbit/s
95th percentile per-packet one-way delay: 235.872 ms
Loss rate: 87.95%
```

Run 2: Report of Verus — Data Link

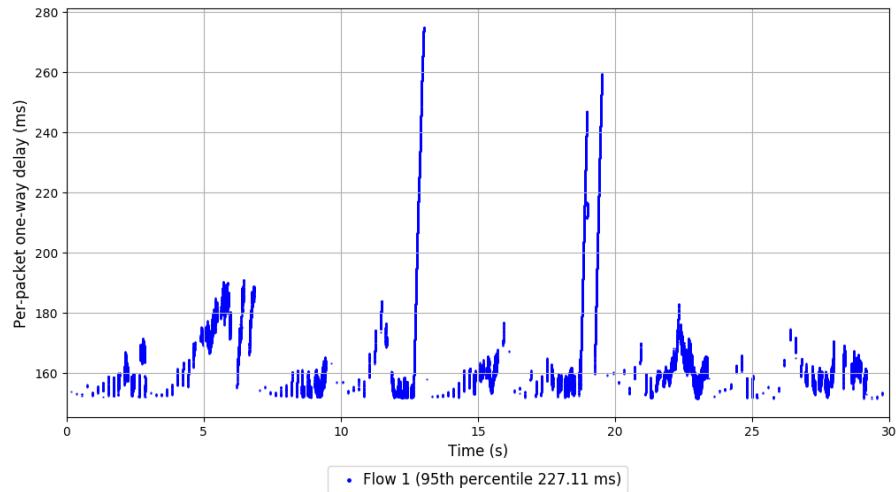
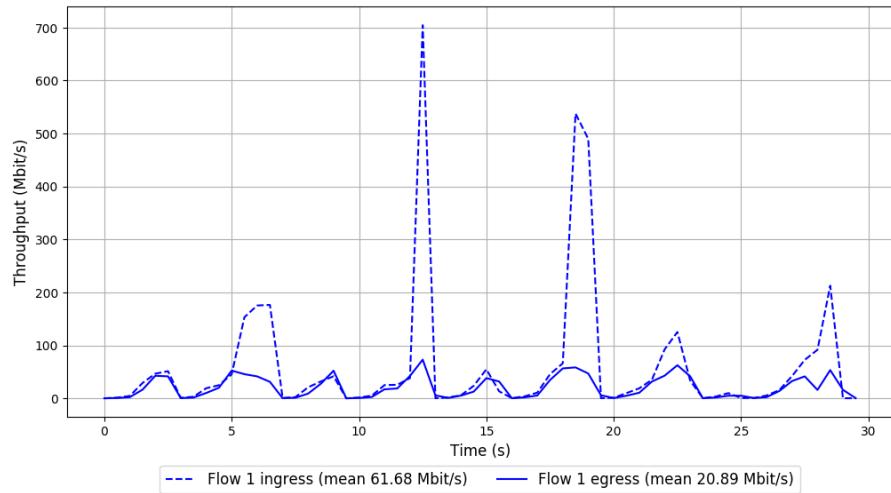


Run 3: Statistics of Verus

```
Start at: 2018-04-17 05:58:47
End at: 2018-04-17 05:59:17
Local clock offset: 13.724 ms
Remote clock offset: 2.729 ms

# Below is generated by plot.py at 2018-04-17 09:02:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.89 Mbit/s
95th percentile per-packet one-way delay: 227.108 ms
Loss rate: 66.13%
-- Flow 1:
Average throughput: 20.89 Mbit/s
95th percentile per-packet one-way delay: 227.108 ms
Loss rate: 66.13%
```

Run 3: Report of Verus — Data Link

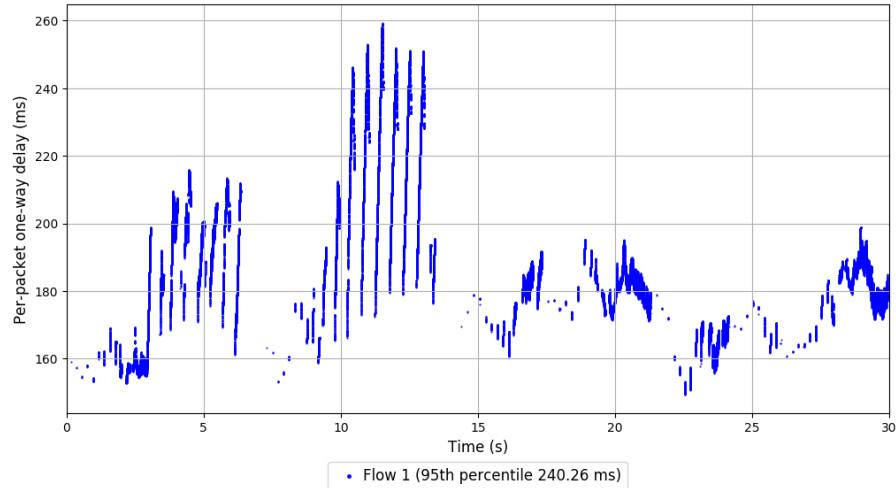
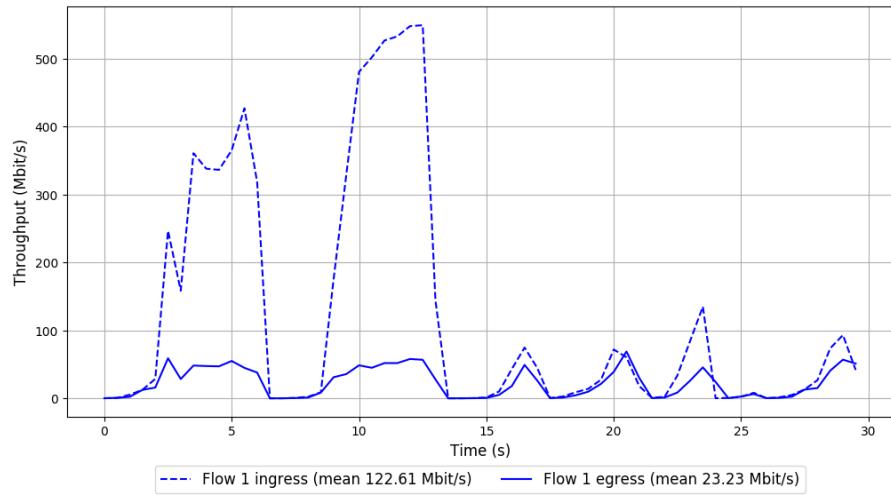


Run 4: Statistics of Verus

```
Start at: 2018-04-17 06:19:59
End at: 2018-04-17 06:20:29
Local clock offset: 8.432 ms
Remote clock offset: -15.638 ms

# Below is generated by plot.py at 2018-04-17 09:02:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.23 Mbit/s
95th percentile per-packet one-way delay: 240.264 ms
Loss rate: 81.03%
-- Flow 1:
Average throughput: 23.23 Mbit/s
95th percentile per-packet one-way delay: 240.264 ms
Loss rate: 81.03%
```

Run 4: Report of Verus — Data Link

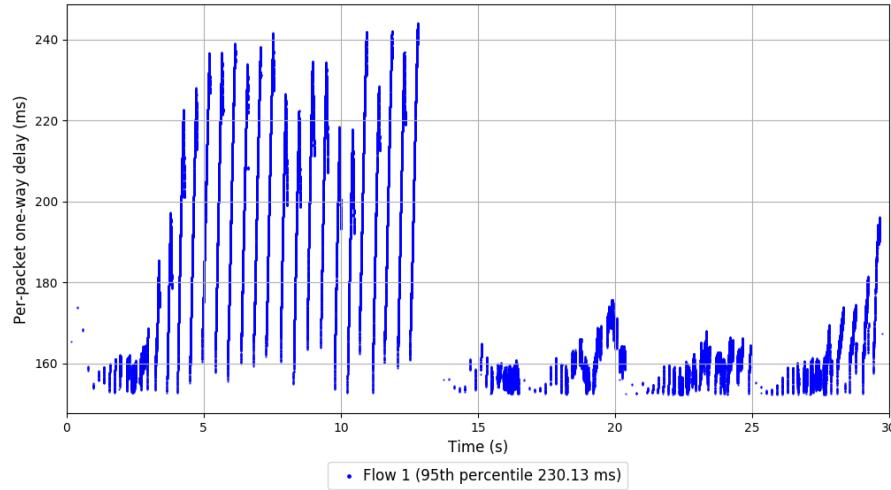
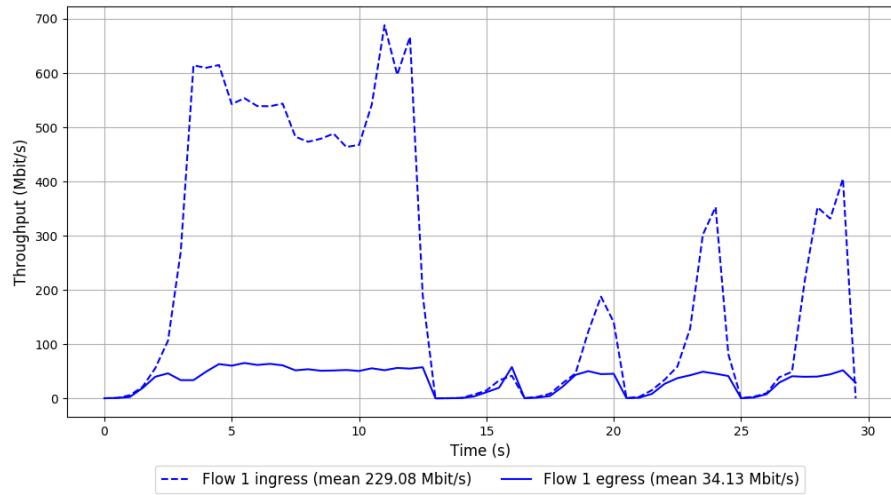


Run 5: Statistics of Verus

```
Start at: 2018-04-17 06:46:47
End at: 2018-04-17 06:47:17
Local clock offset: 0.872 ms
Remote clock offset: 2.543 ms

# Below is generated by plot.py at 2018-04-17 09:02:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.13 Mbit/s
95th percentile per-packet one-way delay: 230.129 ms
Loss rate: 85.10%
-- Flow 1:
Average throughput: 34.13 Mbit/s
95th percentile per-packet one-way delay: 230.129 ms
Loss rate: 85.10%
```

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

/home/ubuntu/pantheon_data/2018-04-17T04-55-AWS-Korea-to-China-10-runs/verus_stats_run6.log

Run 6: Report of Verus — Data Link

Figure is missing

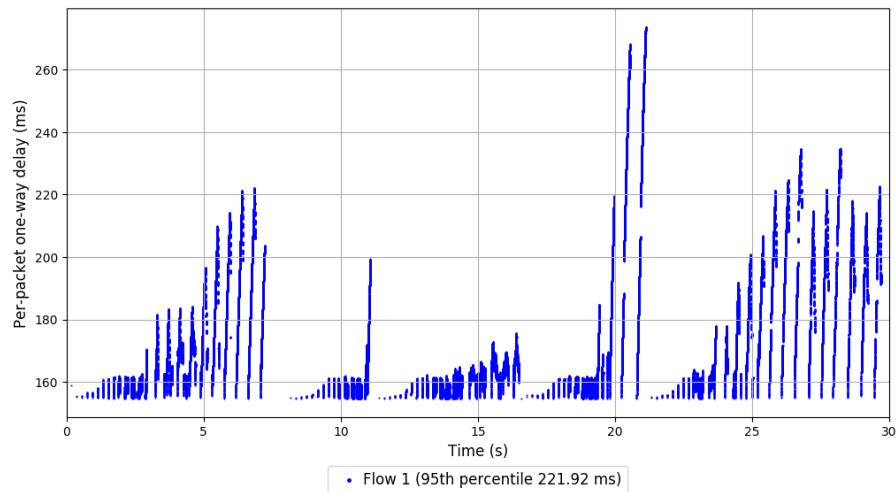
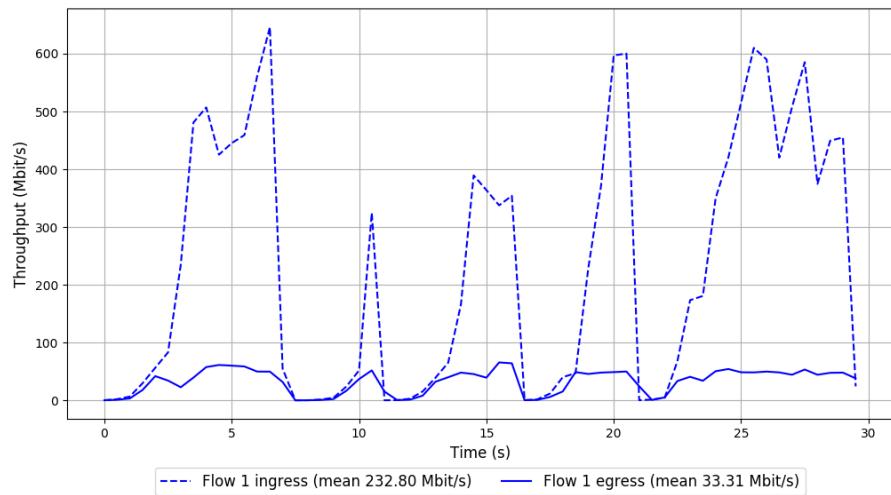
Figure is missing

Run 7: Statistics of Verus

```
Start at: 2018-04-17 07:30:03
End at: 2018-04-17 07:30:33
Local clock offset: 6.679 ms
Remote clock offset: 6.523 ms

# Below is generated by plot.py at 2018-04-17 09:02:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.31 Mbit/s
95th percentile per-packet one-way delay: 221.922 ms
Loss rate: 85.67%
-- Flow 1:
Average throughput: 33.31 Mbit/s
95th percentile per-packet one-way delay: 221.922 ms
Loss rate: 85.67%
```

Run 7: Report of Verus — Data Link

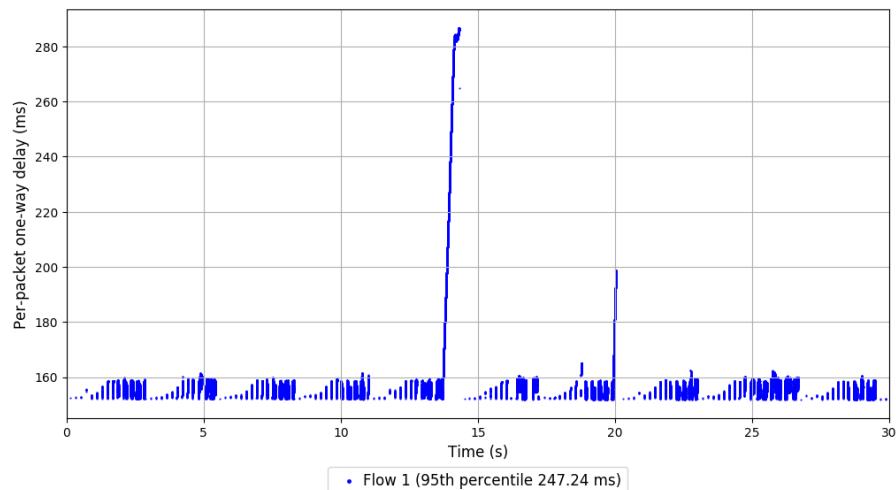
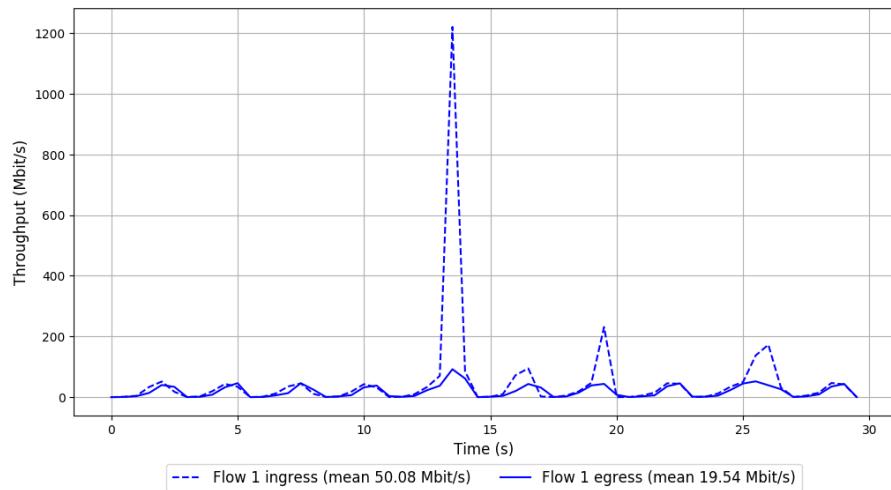


Run 8: Statistics of Verus

```
Start at: 2018-04-17 07:51:59
End at: 2018-04-17 07:52:29
Local clock offset: 6.643 ms
Remote clock offset: 13.203 ms

# Below is generated by plot.py at 2018-04-17 09:02:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.54 Mbit/s
95th percentile per-packet one-way delay: 247.236 ms
Loss rate: 60.99%
-- Flow 1:
Average throughput: 19.54 Mbit/s
95th percentile per-packet one-way delay: 247.236 ms
Loss rate: 60.99%
```

Run 8: Report of Verus — Data Link

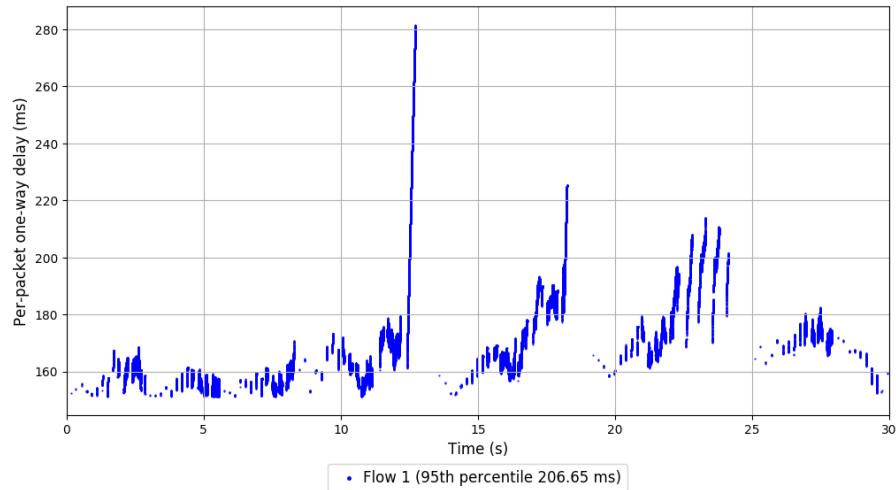
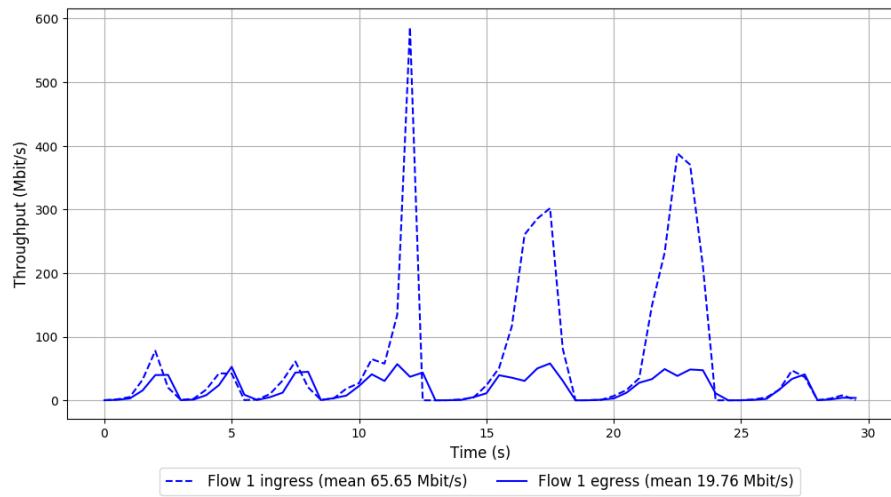


Run 9: Statistics of Verus

```
Start at: 2018-04-17 08:14:25
End at: 2018-04-17 08:14:55
Local clock offset: 6.411 ms
Remote clock offset: 5.631 ms

# Below is generated by plot.py at 2018-04-17 09:02:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.76 Mbit/s
95th percentile per-packet one-way delay: 206.654 ms
Loss rate: 69.90%
-- Flow 1:
Average throughput: 19.76 Mbit/s
95th percentile per-packet one-way delay: 206.654 ms
Loss rate: 69.90%
```

Run 9: Report of Verus — Data Link

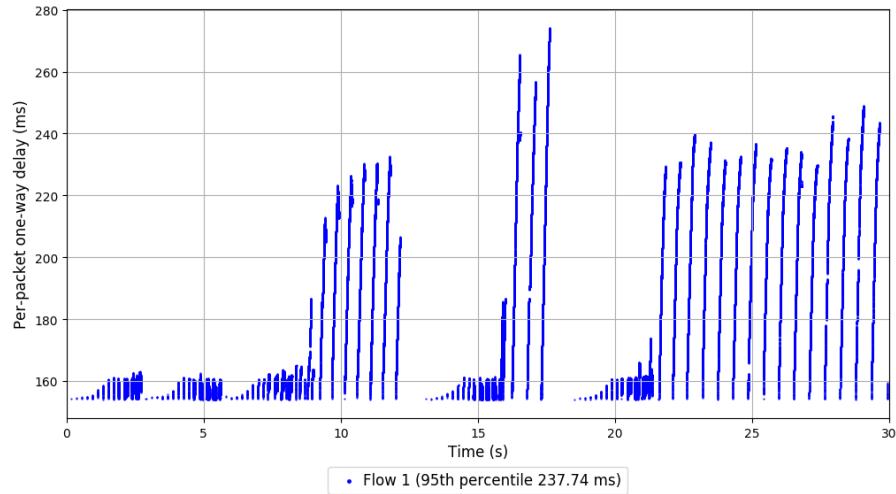
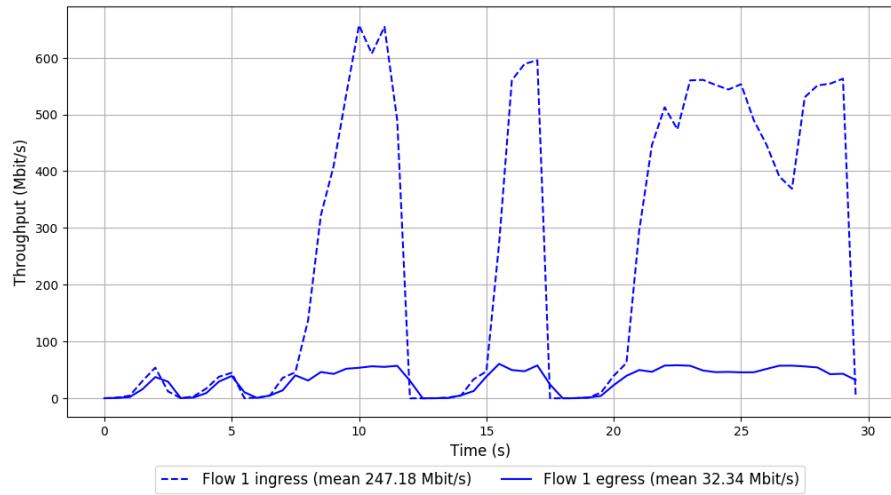


Run 10: Statistics of Verus

```
Start at: 2018-04-17 08:35:16
End at: 2018-04-17 08:35:47
Local clock offset: 0.059 ms
Remote clock offset: 1.114 ms

# Below is generated by plot.py at 2018-04-17 09:03:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.34 Mbit/s
95th percentile per-packet one-way delay: 237.739 ms
Loss rate: 86.92%
-- Flow 1:
Average throughput: 32.34 Mbit/s
95th percentile per-packet one-way delay: 237.739 ms
Loss rate: 86.92%
```

Run 10: Report of Verus — Data Link

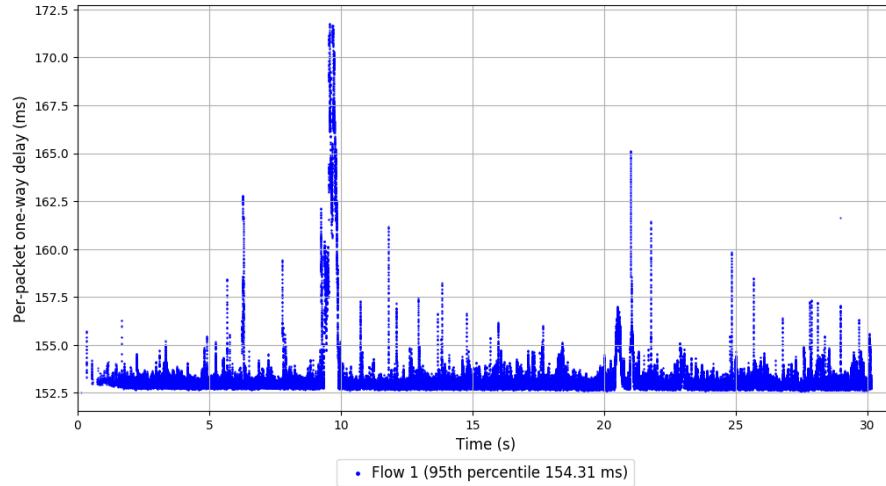
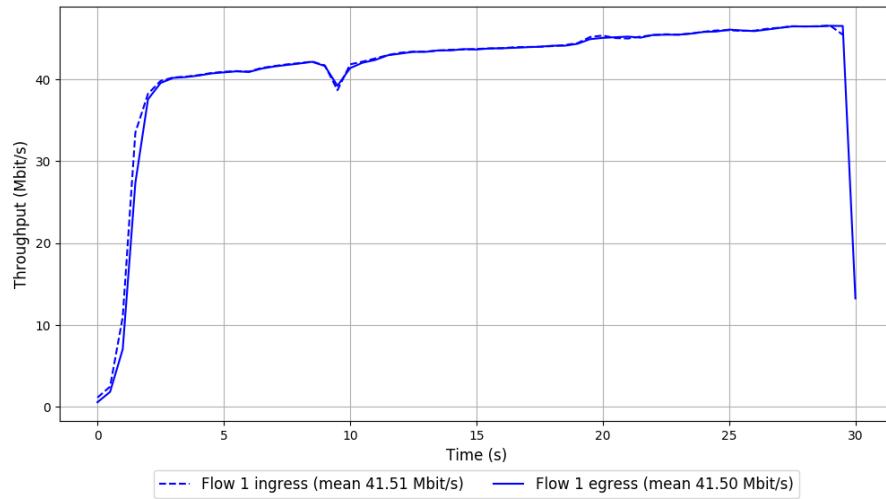


Run 1: Statistics of Copa

```
Start at: 2018-04-17 05:05:12
End at: 2018-04-17 05:05:42
Local clock offset: 4.918 ms
Remote clock offset: -13.933 ms

# Below is generated by plot.py at 2018-04-17 09:03:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.50 Mbit/s
95th percentile per-packet one-way delay: 154.315 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.50 Mbit/s
95th percentile per-packet one-way delay: 154.315 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link

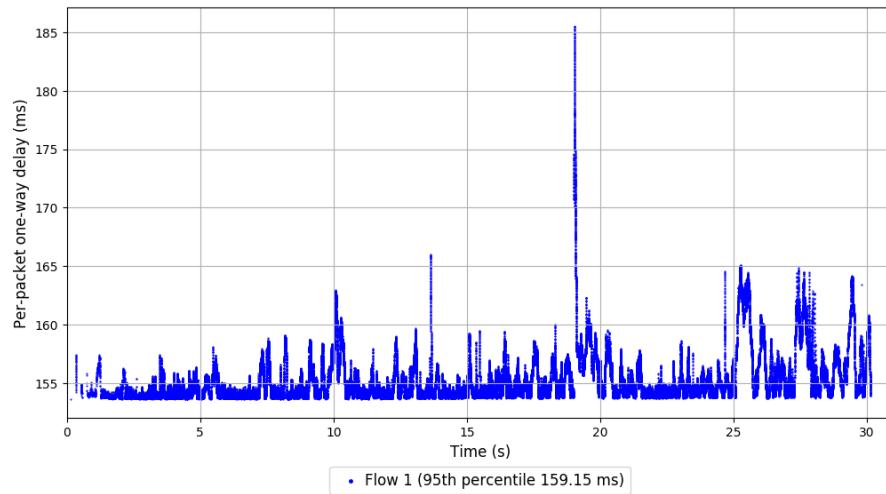
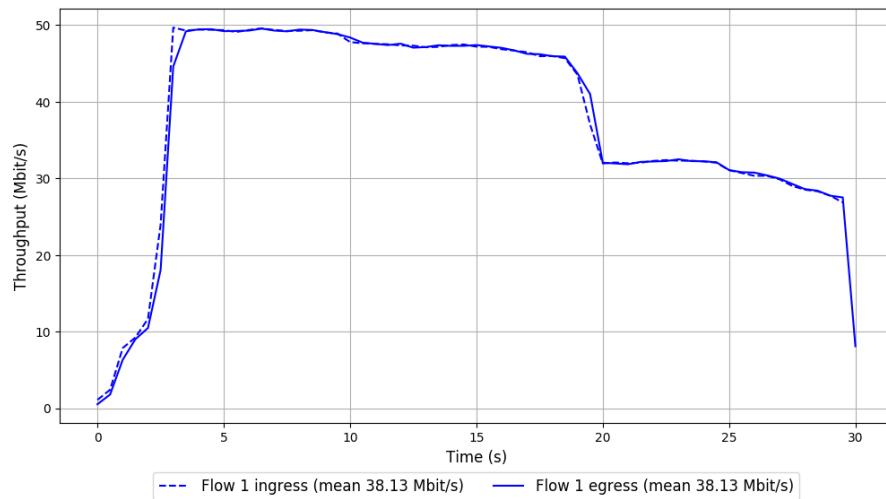


Run 2: Statistics of Copa

```
Start at: 2018-04-17 05:26:22
End at: 2018-04-17 05:26:52
Local clock offset: 4.254 ms
Remote clock offset: 2.626 ms

# Below is generated by plot.py at 2018-04-17 09:03:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 38.13 Mbit/s
95th percentile per-packet one-way delay: 159.152 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 38.13 Mbit/s
95th percentile per-packet one-way delay: 159.152 ms
Loss rate: 0.01%
```

Run 2: Report of Copa — Data Link

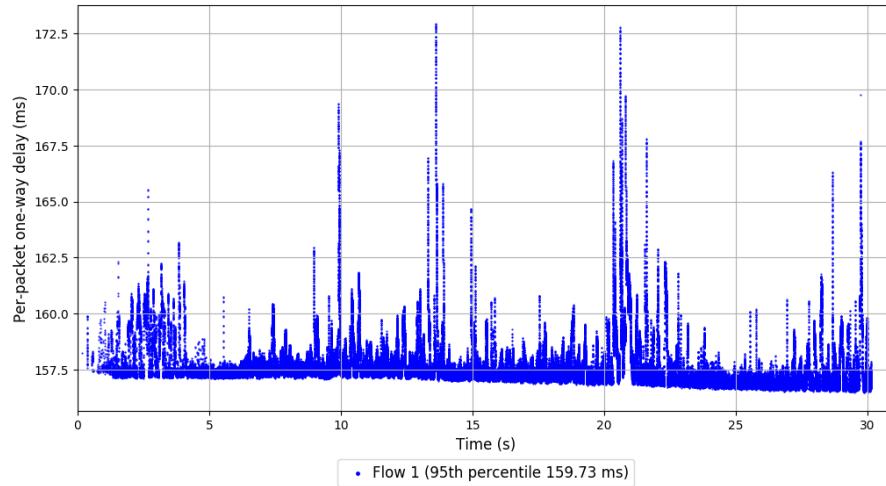
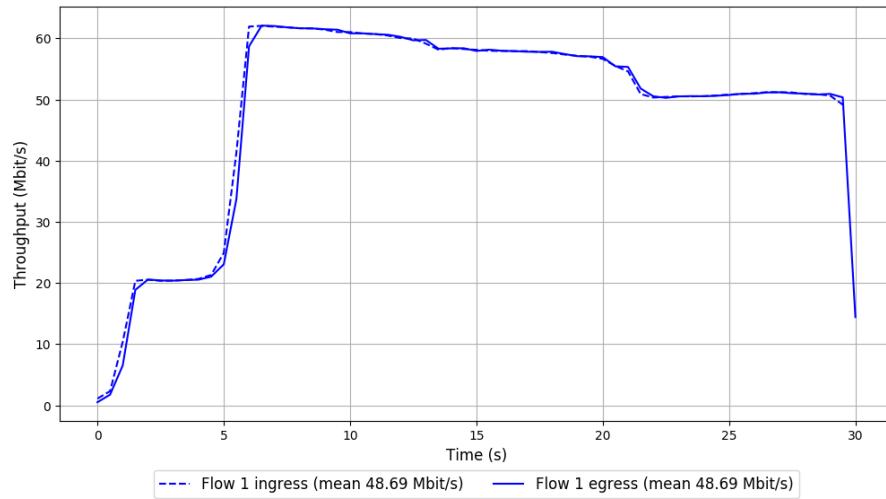


Run 3: Statistics of Copa

```
Start at: 2018-04-17 05:47:36
End at: 2018-04-17 05:48:06
Local clock offset: 12.049 ms
Remote clock offset: -14.138 ms

# Below is generated by plot.py at 2018-04-17 09:03:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.69 Mbit/s
95th percentile per-packet one-way delay: 159.734 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 48.69 Mbit/s
95th percentile per-packet one-way delay: 159.734 ms
Loss rate: 0.02%
```

Run 3: Report of Copa — Data Link

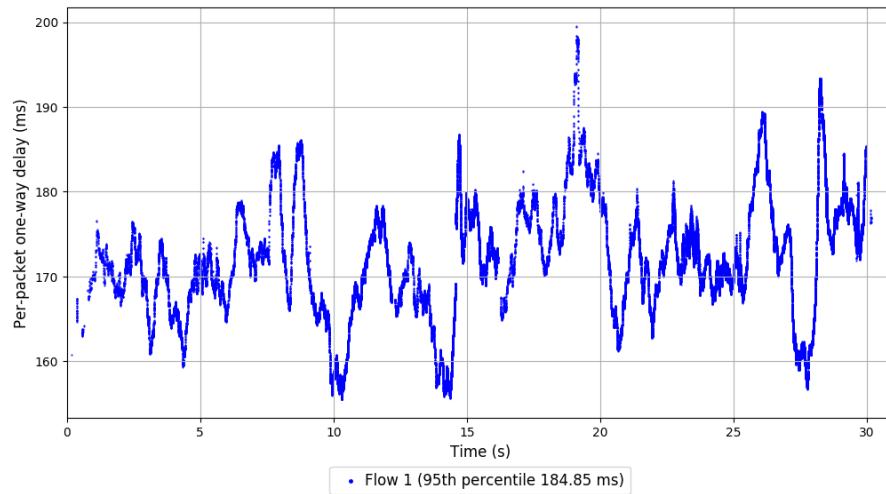
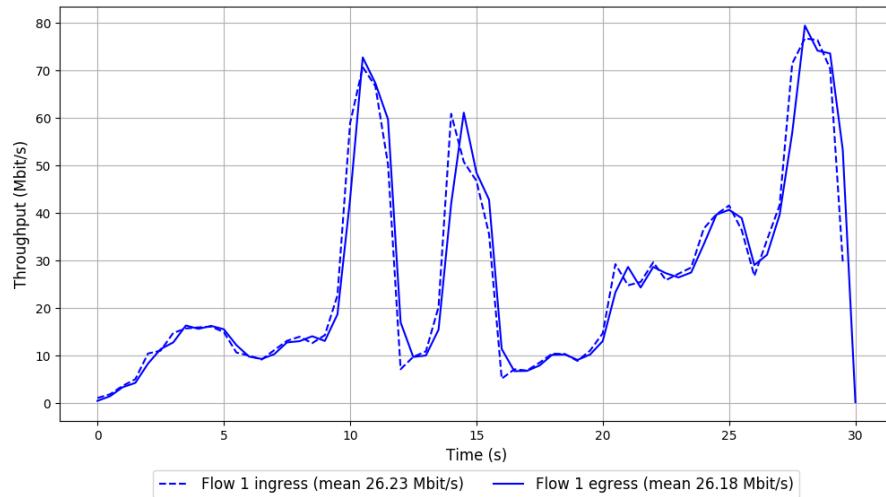


Run 4: Statistics of Copa

```
Start at: 2018-04-17 06:08:48
End at: 2018-04-17 06:09:18
Local clock offset: 9.502 ms
Remote clock offset: -20.402 ms

# Below is generated by plot.py at 2018-04-17 09:03:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.18 Mbit/s
95th percentile per-packet one-way delay: 184.851 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 26.18 Mbit/s
95th percentile per-packet one-way delay: 184.851 ms
Loss rate: 0.14%
```

Run 4: Report of Copa — Data Link

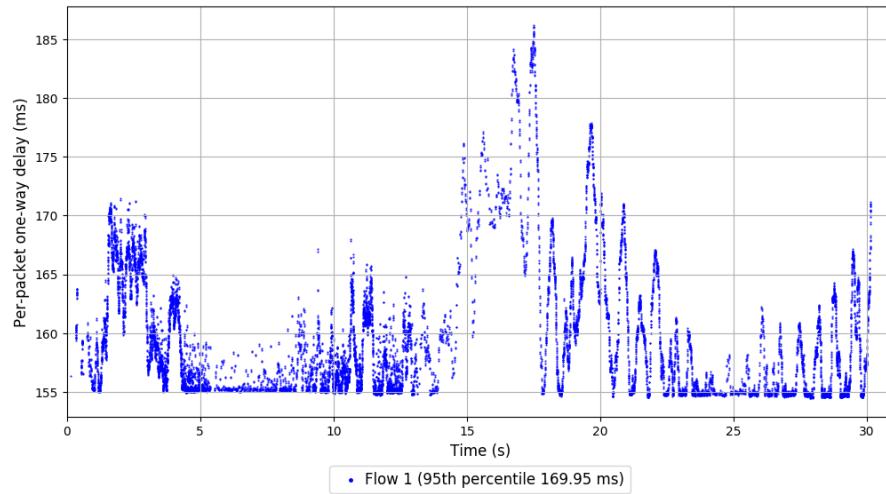
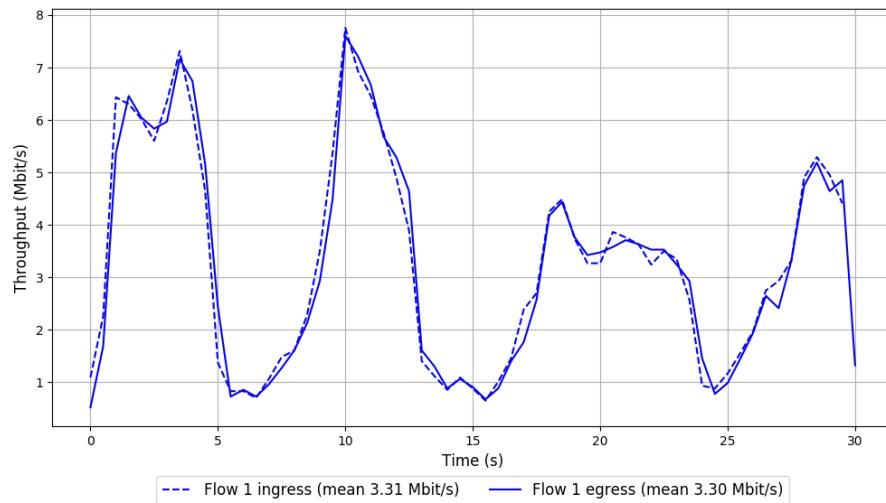


Run 5: Statistics of Copa

```
Start at: 2018-04-17 06:29:59
End at: 2018-04-17 06:30:29
Local clock offset: 8.574 ms
Remote clock offset: -4.713 ms

# Below is generated by plot.py at 2018-04-17 09:03:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.30 Mbit/s
95th percentile per-packet one-way delay: 169.953 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 3.30 Mbit/s
95th percentile per-packet one-way delay: 169.953 ms
Loss rate: 0.05%
```

Run 5: Report of Copa — Data Link

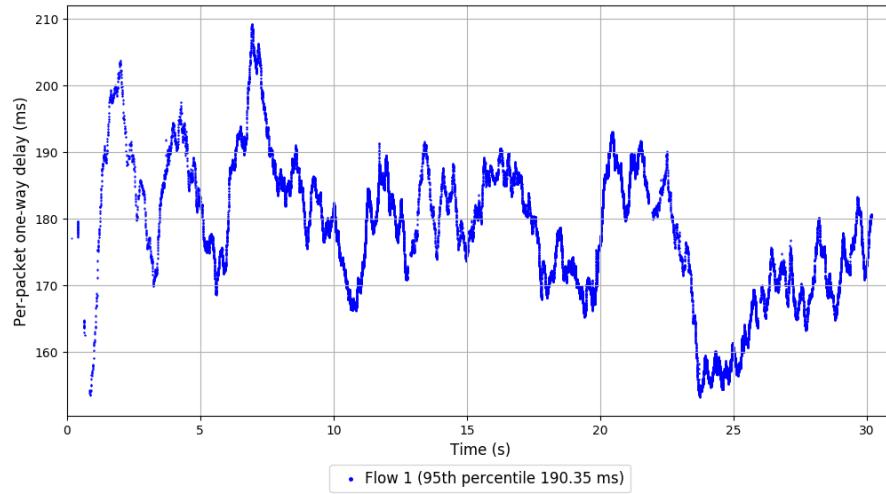
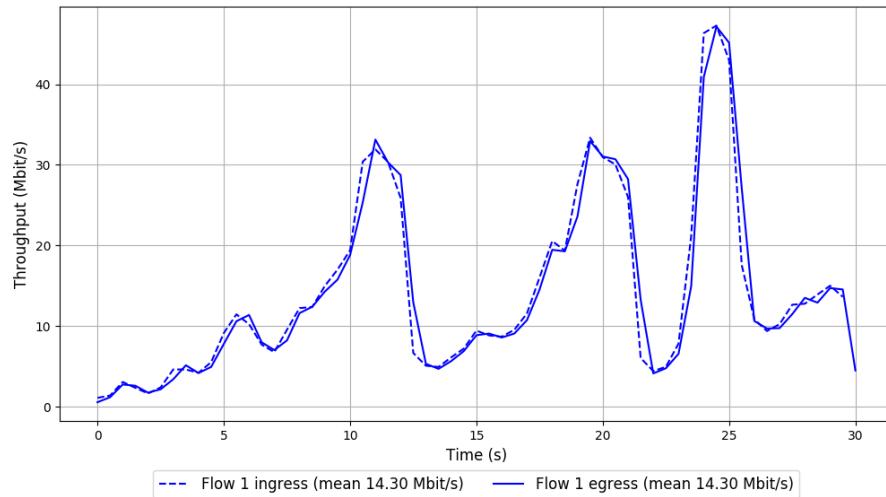


Run 6: Statistics of Copa

```
Start at: 2018-04-17 06:56:54
End at: 2018-04-17 06:57:24
Local clock offset: -1.353 ms
Remote clock offset: -8.221 ms

# Below is generated by plot.py at 2018-04-17 09:03:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.30 Mbit/s
95th percentile per-packet one-way delay: 190.352 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 14.30 Mbit/s
95th percentile per-packet one-way delay: 190.352 ms
Loss rate: 0.00%
```

Run 6: Report of Copa — Data Link

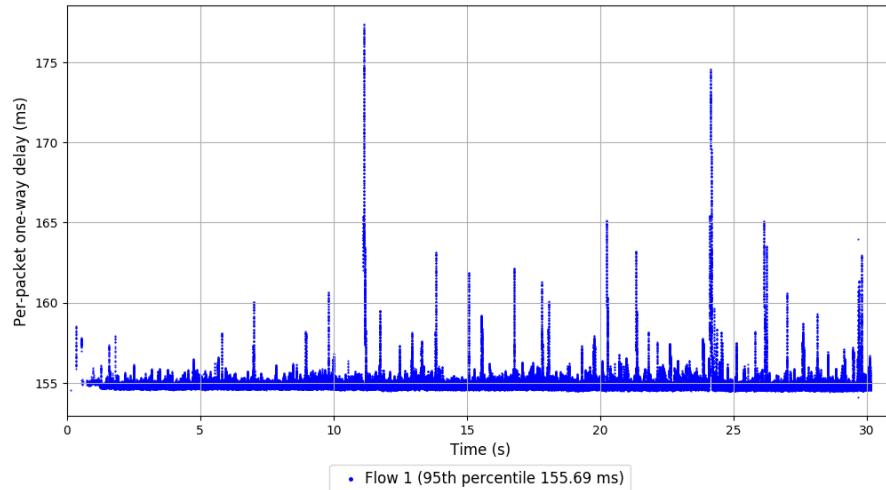
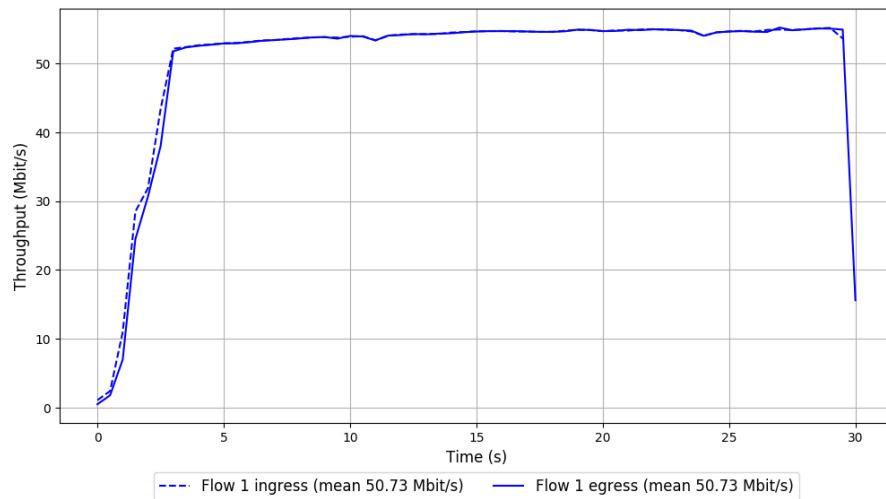


Run 7: Statistics of Copa

```
Start at: 2018-04-17 07:18:48
End at: 2018-04-17 07:19:18
Local clock offset: 4.988 ms
Remote clock offset: 0.218 ms

# Below is generated by plot.py at 2018-04-17 09:04:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.73 Mbit/s
95th percentile per-packet one-way delay: 155.688 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 50.73 Mbit/s
95th percentile per-packet one-way delay: 155.688 ms
Loss rate: 0.01%
```

Run 7: Report of Copa — Data Link

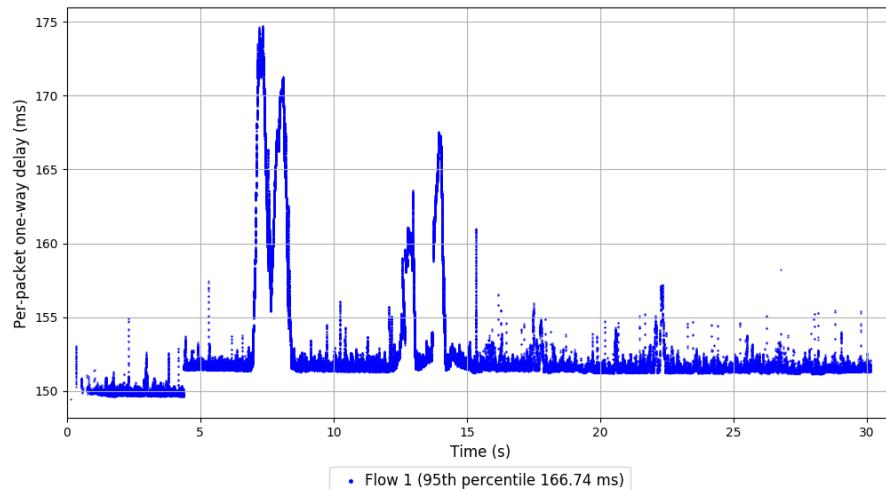
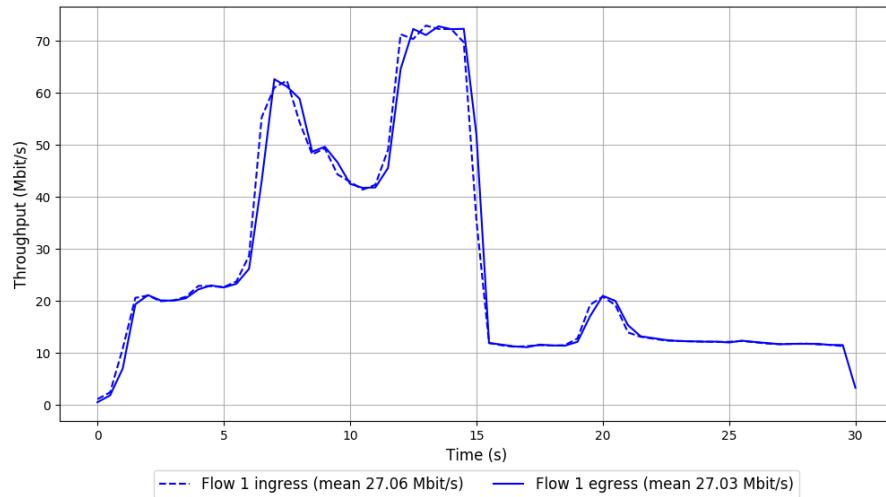


Run 8: Statistics of Copa

```
Start at: 2018-04-17 07:40:41
End at: 2018-04-17 07:41:11
Local clock offset: 7.582 ms
Remote clock offset: 5.219 ms

# Below is generated by plot.py at 2018-04-17 09:04:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.03 Mbit/s
95th percentile per-packet one-way delay: 166.742 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 27.03 Mbit/s
95th percentile per-packet one-way delay: 166.742 ms
Loss rate: 0.09%
```

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

/home/ubuntu/pantheon_data/2018-04-17T04-55-AWS-Korea-to-China-10-runs/copa_stats_run9.log

Run 9: Report of Copa — Data Link

Figure is missing

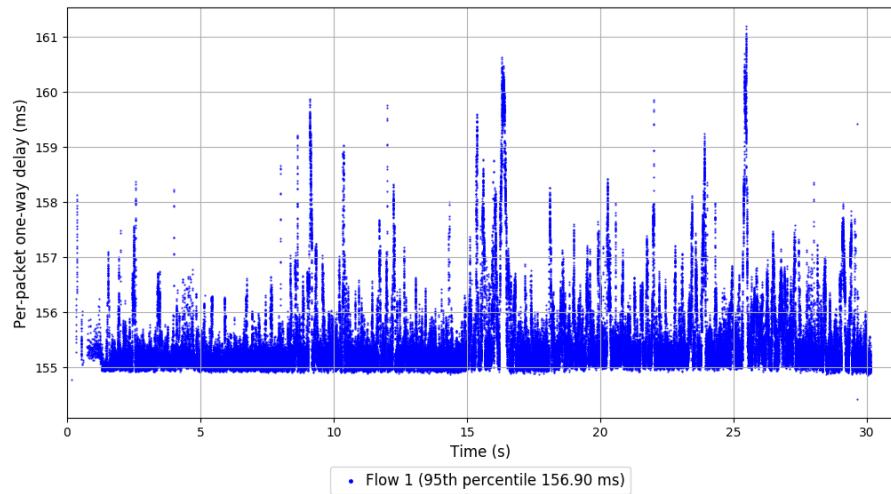
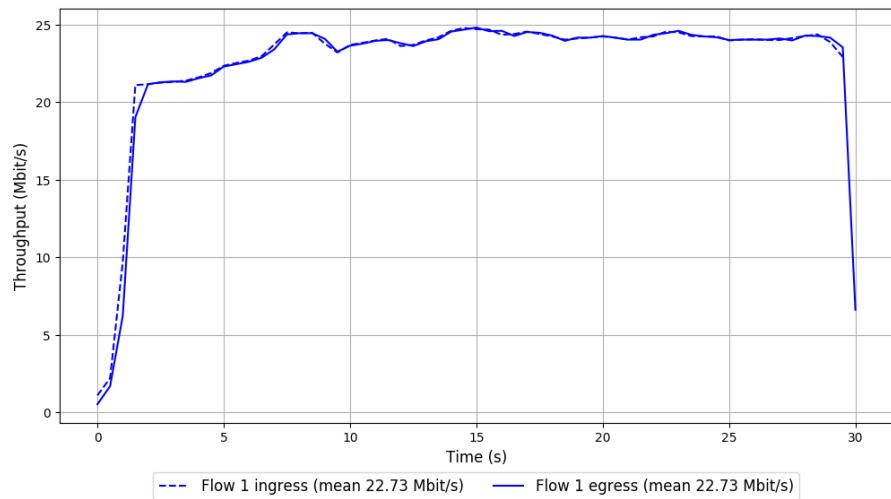
Figure is missing

Run 10: Statistics of Copa

```
Start at: 2018-04-17 08:24:26
End at: 2018-04-17 08:24:56
Local clock offset: 2.068 ms
Remote clock offset: 1.761 ms

# Below is generated by plot.py at 2018-04-17 09:04:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 22.73 Mbit/s
95th percentile per-packet one-way delay: 156.899 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 22.73 Mbit/s
95th percentile per-packet one-way delay: 156.899 ms
Loss rate: 0.01%
```

Run 10: Report of Copa — Data Link

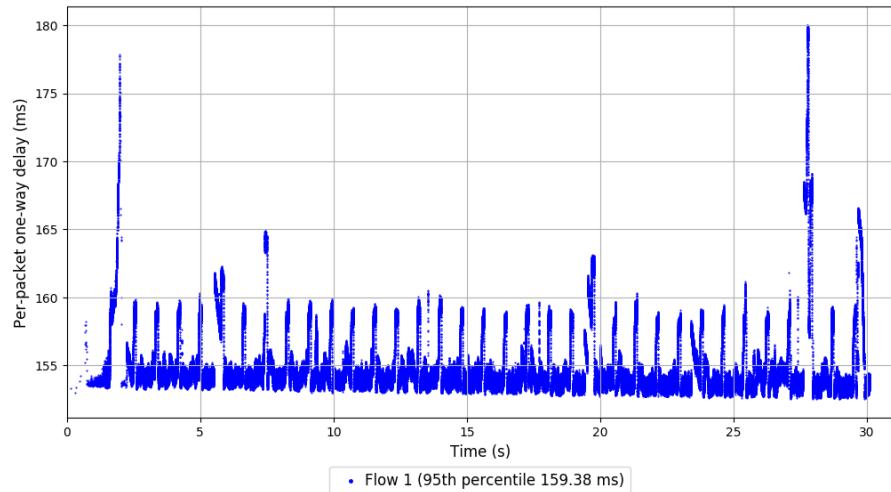
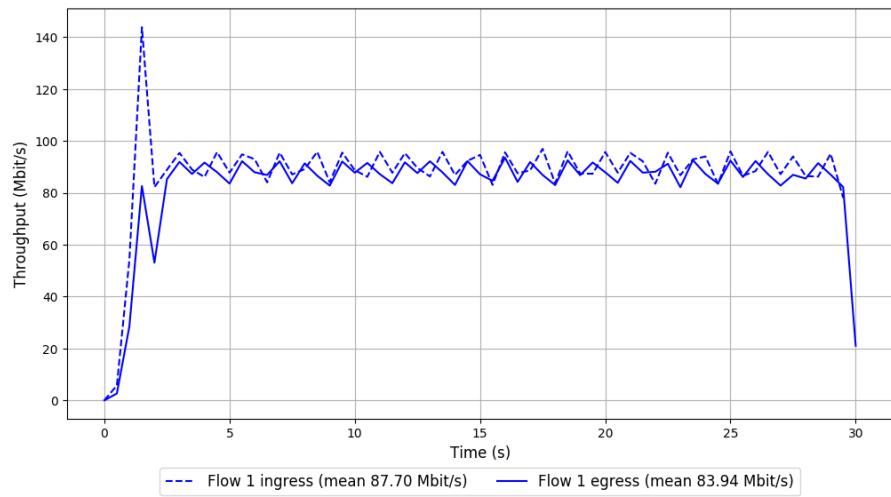


Run 1: Statistics of FillP

```
Start at: 2018-04-17 05:13:50
End at: 2018-04-17 05:14:20
Local clock offset: 3.357 ms
Remote clock offset: -14.261 ms

# Below is generated by plot.py at 2018-04-17 09:04:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.94 Mbit/s
95th percentile per-packet one-way delay: 159.376 ms
Loss rate: 4.29%
-- Flow 1:
Average throughput: 83.94 Mbit/s
95th percentile per-packet one-way delay: 159.376 ms
Loss rate: 4.29%
```

Run 1: Report of FillP — Data Link

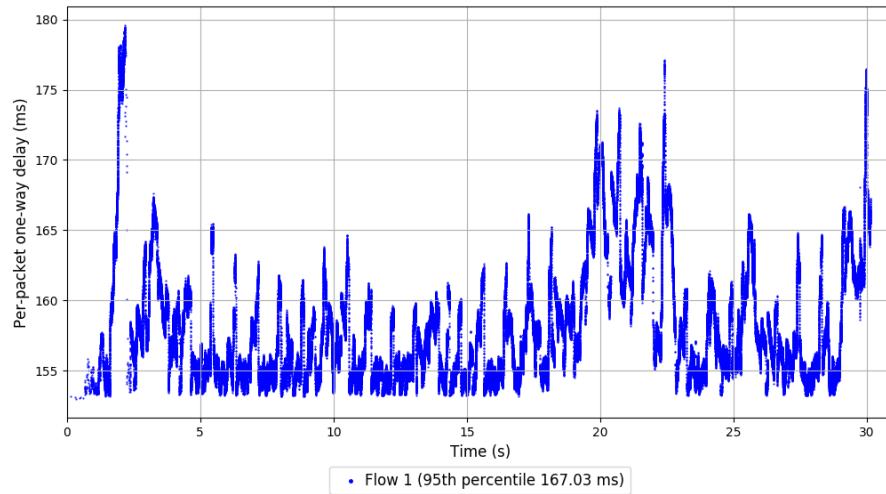
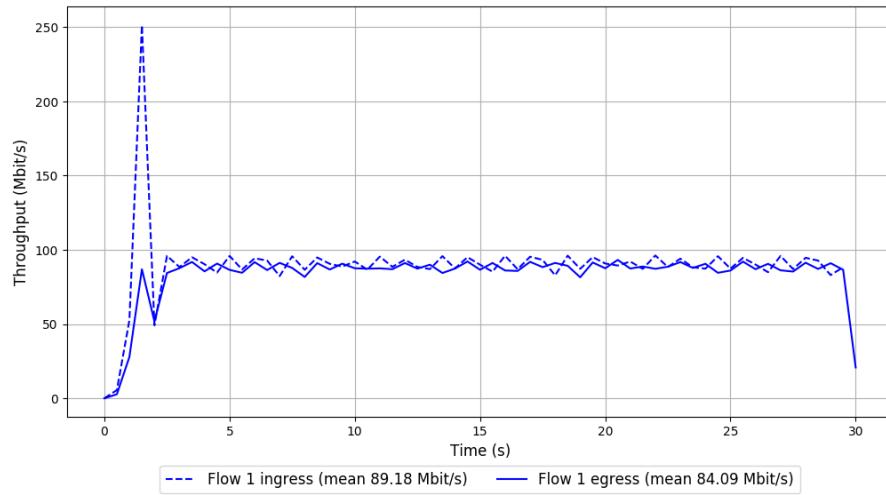


Run 2: Statistics of FillP

```
Start at: 2018-04-17 05:34:59
End at: 2018-04-17 05:35:29
Local clock offset: 8.952 ms
Remote clock offset: 6.248 ms

# Below is generated by plot.py at 2018-04-17 09:04:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.09 Mbit/s
95th percentile per-packet one-way delay: 167.035 ms
Loss rate: 5.67%
-- Flow 1:
Average throughput: 84.09 Mbit/s
95th percentile per-packet one-way delay: 167.035 ms
Loss rate: 5.67%
```

Run 2: Report of FillP — Data Link

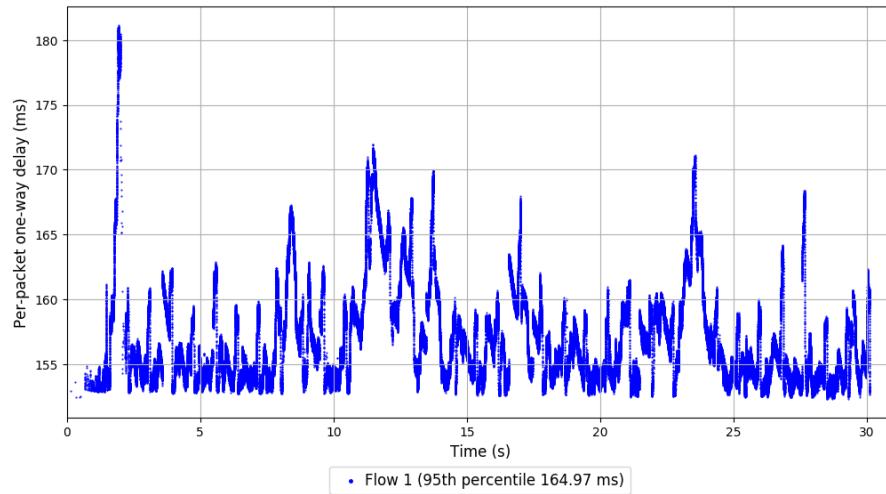
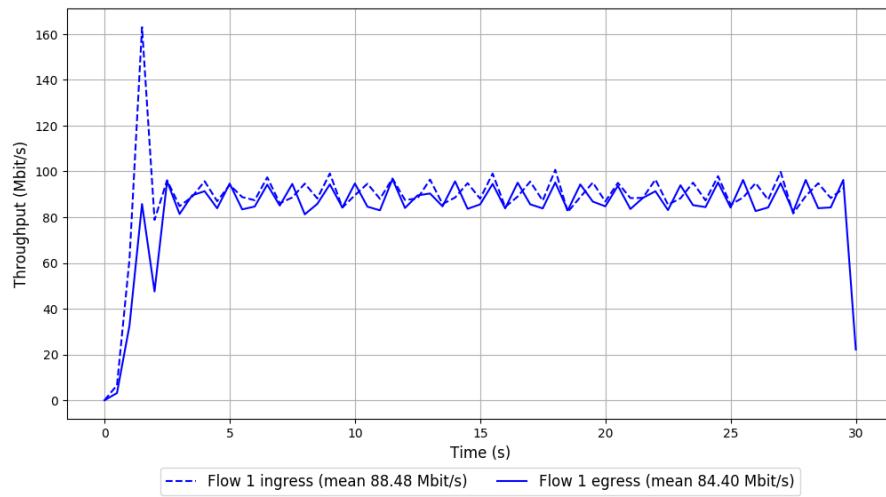


Run 3: Statistics of FillP

```
Start at: 2018-04-17 05:56:16
End at: 2018-04-17 05:56:46
Local clock offset: 13.356 ms
Remote clock offset: -0.205 ms

# Below is generated by plot.py at 2018-04-17 09:04:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.40 Mbit/s
95th percentile per-packet one-way delay: 164.965 ms
Loss rate: 4.62%
-- Flow 1:
Average throughput: 84.40 Mbit/s
95th percentile per-packet one-way delay: 164.965 ms
Loss rate: 4.62%
```

Run 3: Report of FillP — Data Link

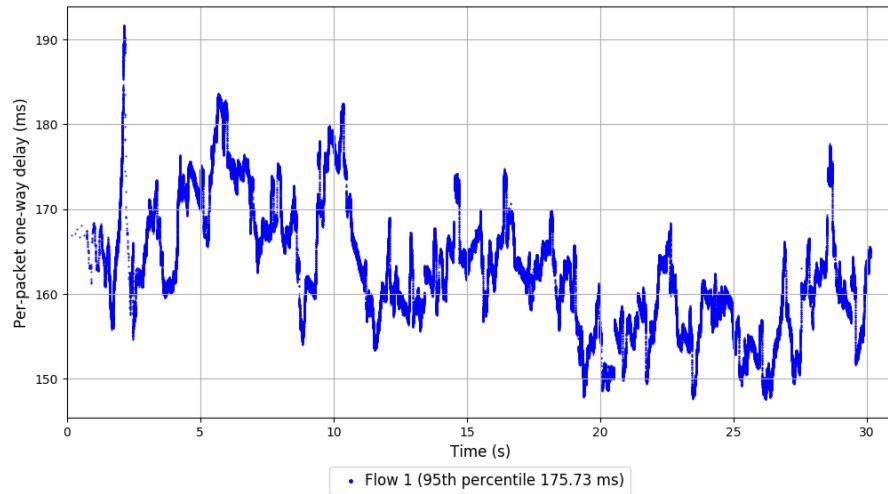
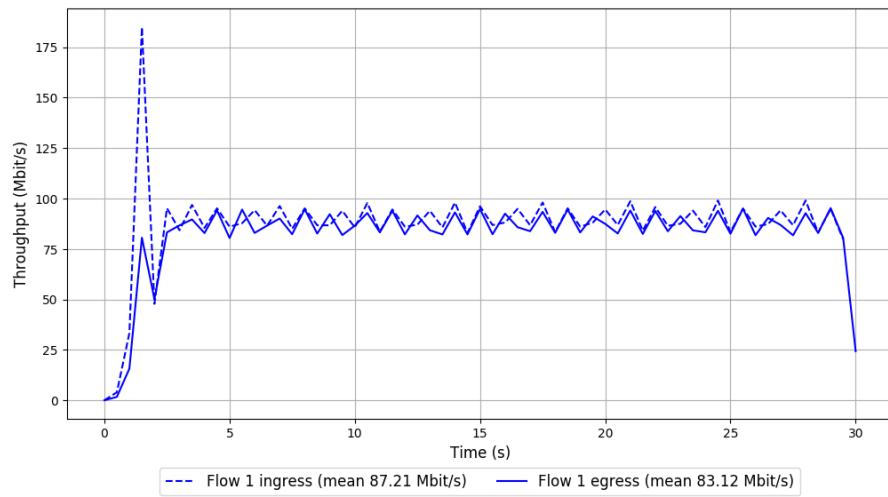


Run 4: Statistics of FillP

```
Start at: 2018-04-17 06:17:28
End at: 2018-04-17 06:17:58
Local clock offset: 8.754 ms
Remote clock offset: -16.449 ms

# Below is generated by plot.py at 2018-04-17 09:04:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.12 Mbit/s
95th percentile per-packet one-way delay: 175.726 ms
Loss rate: 4.70%
-- Flow 1:
Average throughput: 83.12 Mbit/s
95th percentile per-packet one-way delay: 175.726 ms
Loss rate: 4.70%
```

Run 4: Report of FillP — Data Link

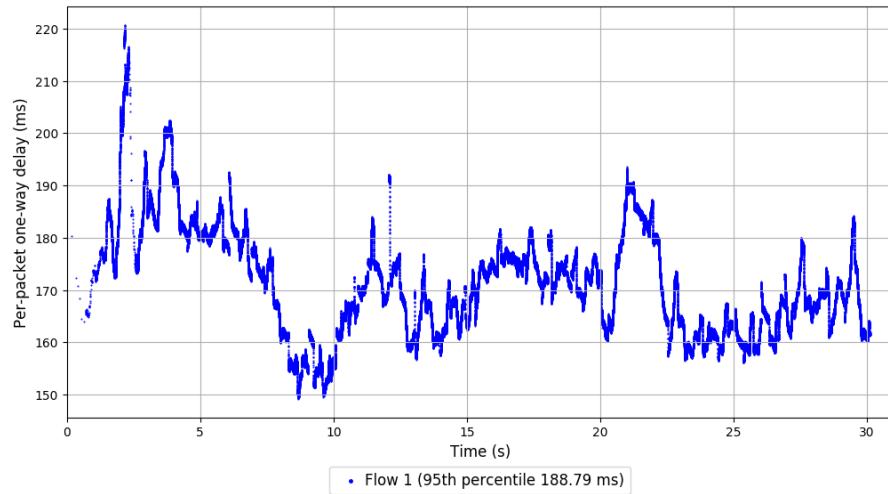
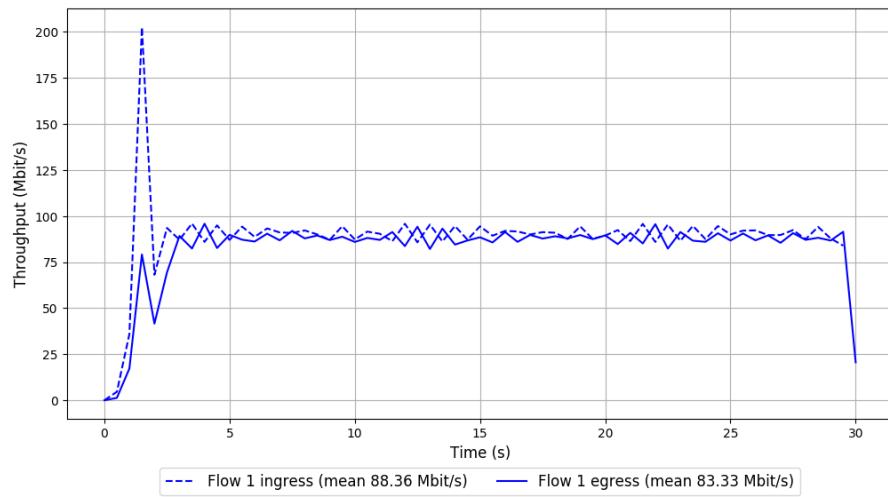


Run 5: Statistics of FillP

```
Start at: 2018-04-17 06:44:11
End at: 2018-04-17 06:44:41
Local clock offset: 1.831 ms
Remote clock offset: -7.951 ms

# Below is generated by plot.py at 2018-04-17 09:04:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.33 Mbit/s
95th percentile per-packet one-way delay: 188.793 ms
Loss rate: 5.75%
-- Flow 1:
Average throughput: 83.33 Mbit/s
95th percentile per-packet one-way delay: 188.793 ms
Loss rate: 5.75%
```

Run 5: Report of FillP — Data Link

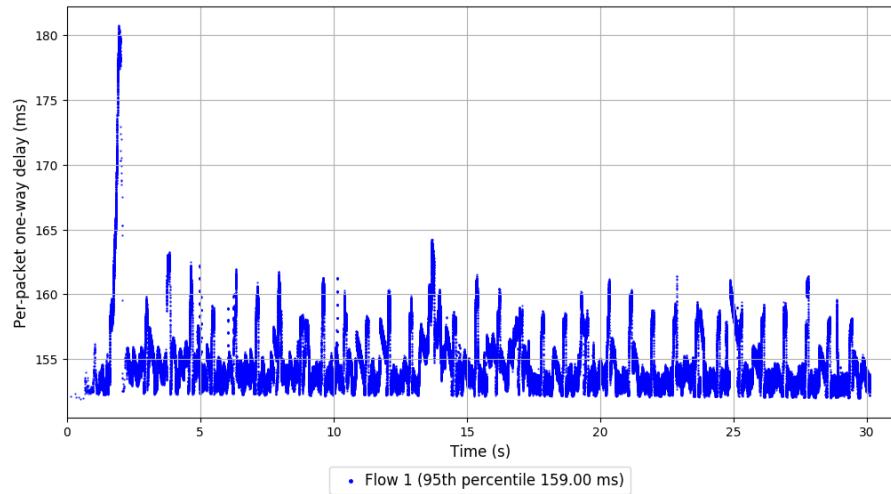
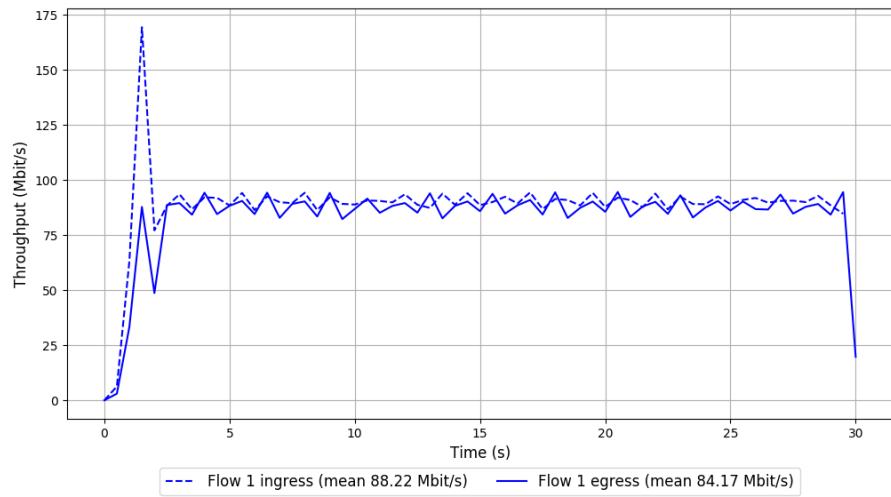


Run 6: Statistics of FillP

```
Start at: 2018-04-17 07:05:34
End at: 2018-04-17 07:06:04
Local clock offset: -2.592 ms
Remote clock offset: 12.115 ms

# Below is generated by plot.py at 2018-04-17 09:05:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.17 Mbit/s
95th percentile per-packet one-way delay: 158.995 ms
Loss rate: 4.60%
-- Flow 1:
Average throughput: 84.17 Mbit/s
95th percentile per-packet one-way delay: 158.995 ms
Loss rate: 4.60%
```

Run 6: Report of FillP — Data Link

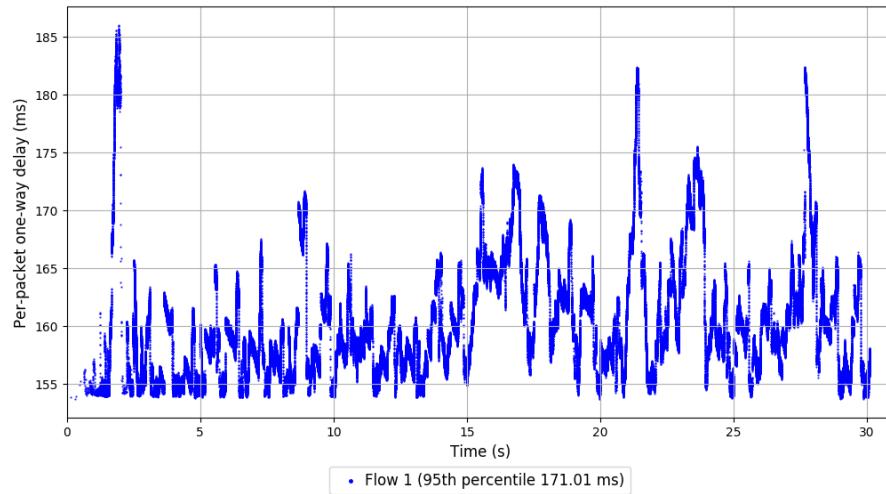
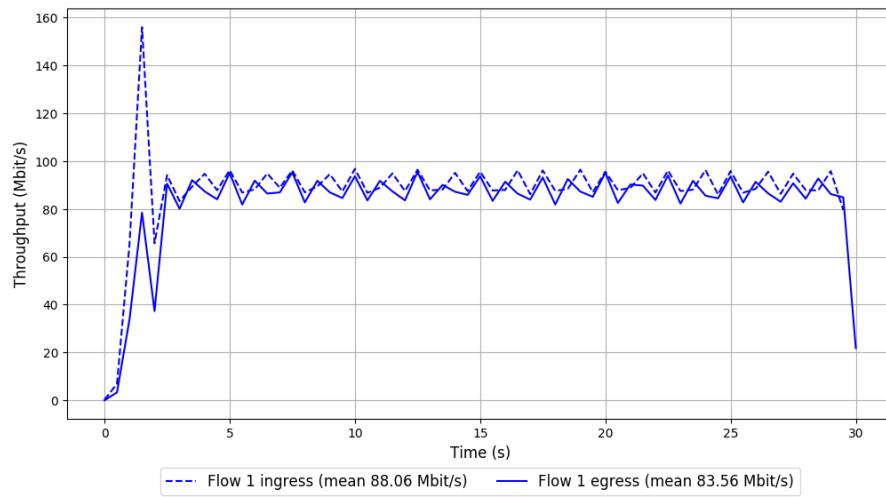


Run 7: Statistics of FillP

```
Start at: 2018-04-17 07:27:32
End at: 2018-04-17 07:28:02
Local clock offset: 6.579 ms
Remote clock offset: 5.105 ms

# Below is generated by plot.py at 2018-04-17 09:05:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.56 Mbit/s
95th percentile per-packet one-way delay: 171.011 ms
Loss rate: 5.10%
-- Flow 1:
Average throughput: 83.56 Mbit/s
95th percentile per-packet one-way delay: 171.011 ms
Loss rate: 5.10%
```

Run 7: Report of FillP — Data Link

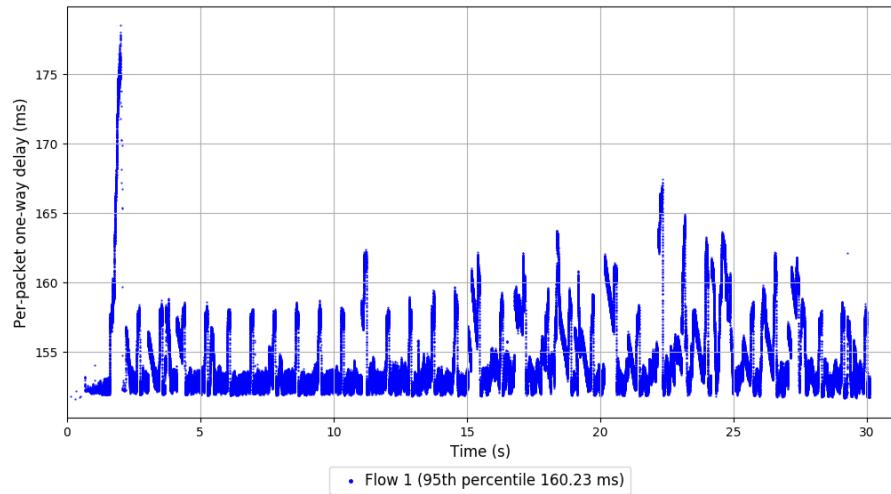
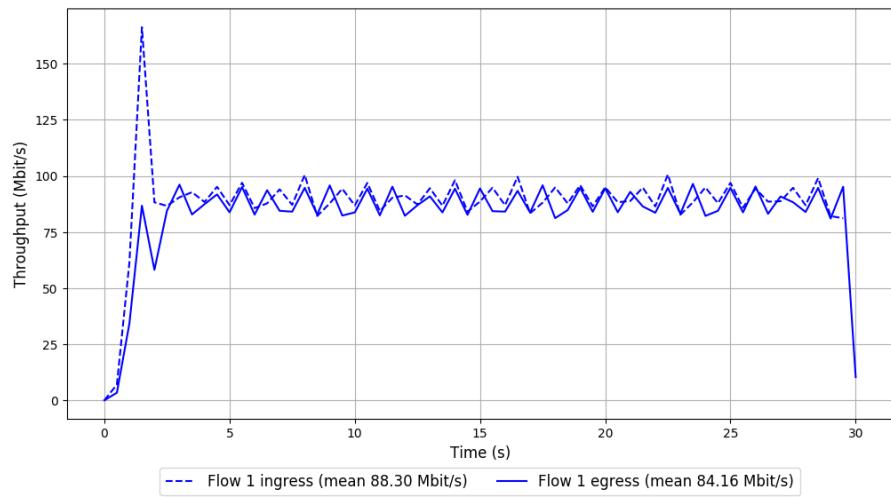


Run 8: Statistics of FillP

```
Start at: 2018-04-17 07:49:26
End at: 2018-04-17 07:49:56
Local clock offset: 6.887 ms
Remote clock offset: 12.065 ms

# Below is generated by plot.py at 2018-04-17 09:05:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.16 Mbit/s
95th percentile per-packet one-way delay: 160.230 ms
Loss rate: 4.68%
-- Flow 1:
Average throughput: 84.16 Mbit/s
95th percentile per-packet one-way delay: 160.230 ms
Loss rate: 4.68%
```

Run 8: Report of FillP — Data Link

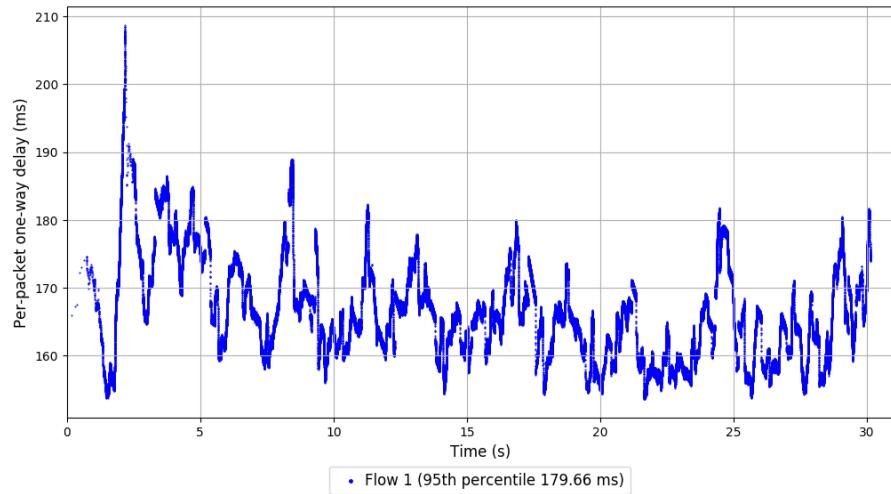
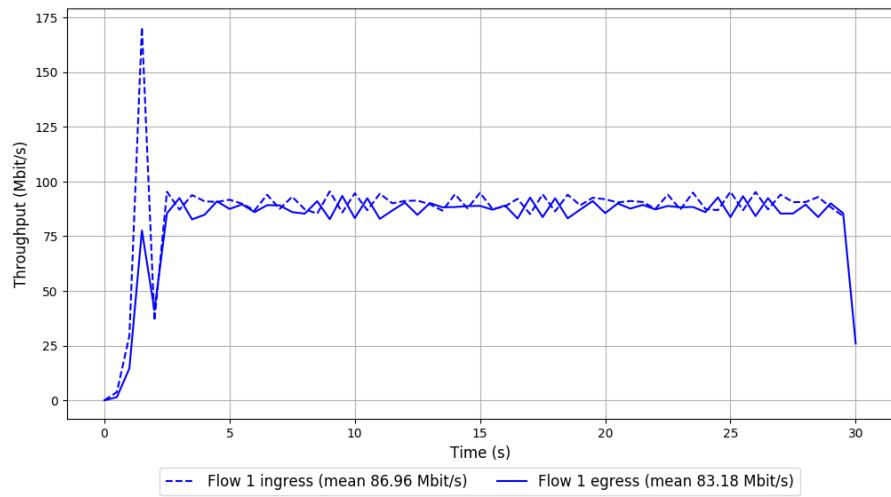


Run 9: Statistics of FillP

```
Start at: 2018-04-17 08:11:52
End at: 2018-04-17 08:12:22
Local clock offset: 6.417 ms
Remote clock offset: 8.319 ms

# Below is generated by plot.py at 2018-04-17 09:05:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.18 Mbit/s
95th percentile per-packet one-way delay: 179.665 ms
Loss rate: 4.31%
-- Flow 1:
Average throughput: 83.18 Mbit/s
95th percentile per-packet one-way delay: 179.665 ms
Loss rate: 4.31%
```

Run 9: Report of FillP — Data Link

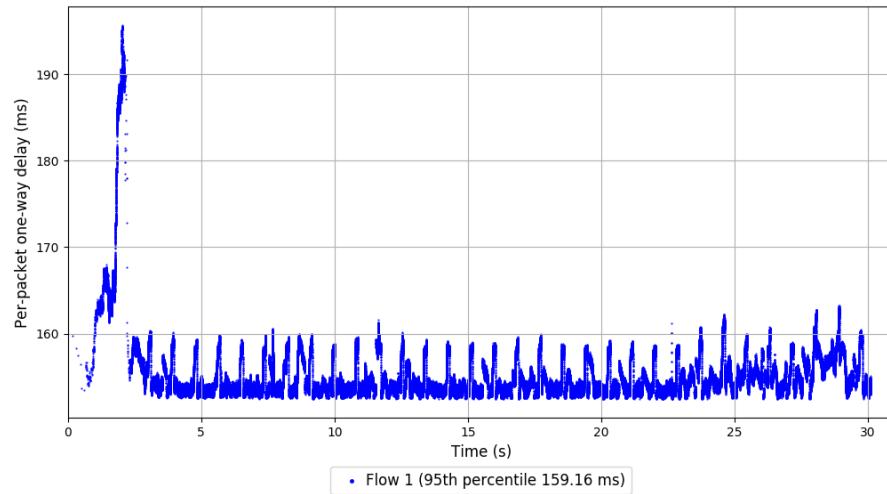
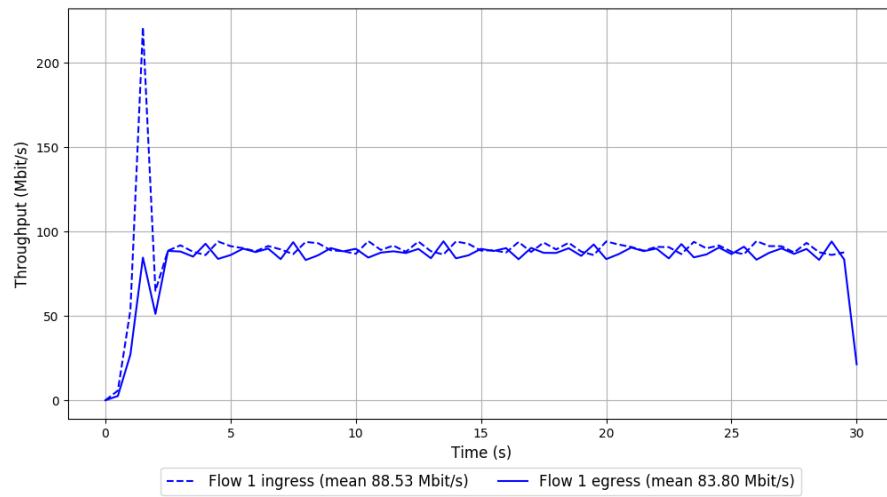


Run 10: Statistics of FillP

```
Start at: 2018-04-17 08:32:46
End at: 2018-04-17 08:33:16
Local clock offset: 0.31 ms
Remote clock offset: 0.689 ms

# Below is generated by plot.py at 2018-04-17 09:05:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.80 Mbit/s
95th percentile per-packet one-way delay: 159.157 ms
Loss rate: 5.37%
-- Flow 1:
Average throughput: 83.80 Mbit/s
95th percentile per-packet one-way delay: 159.157 ms
Loss rate: 5.37%
```

Run 10: Report of FillP — Data Link

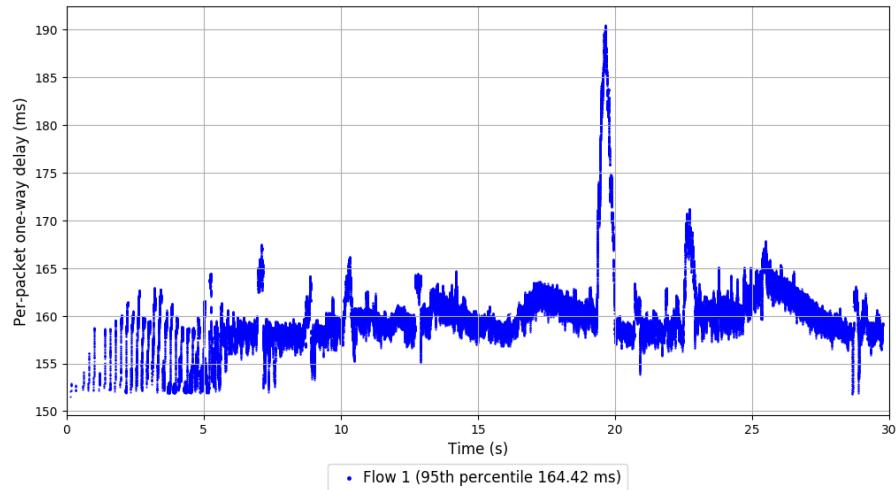
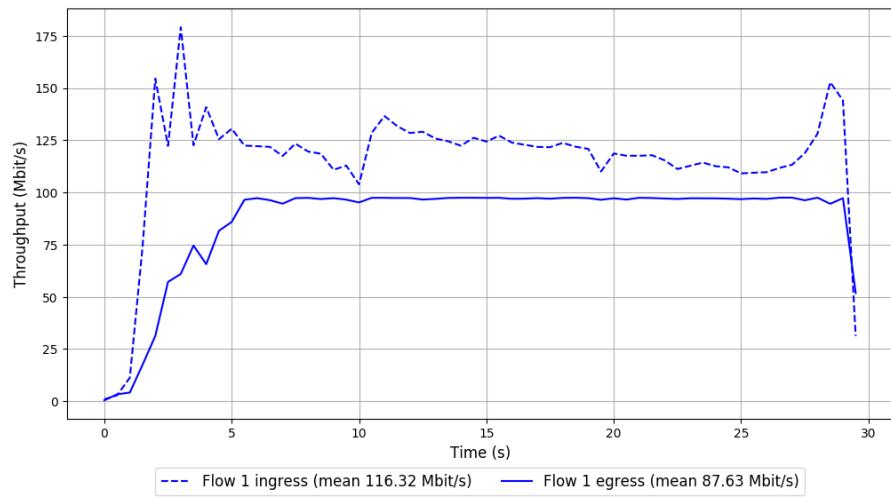


Run 1: Statistics of Indigo-1-32

```
Start at: 2018-04-17 04:56:24
End at: 2018-04-17 04:56:54
Local clock offset: 8.011 ms
Remote clock offset: -13.448 ms

# Below is generated by plot.py at 2018-04-17 09:06:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.63 Mbit/s
95th percentile per-packet one-way delay: 164.423 ms
Loss rate: 24.65%
-- Flow 1:
Average throughput: 87.63 Mbit/s
95th percentile per-packet one-way delay: 164.423 ms
Loss rate: 24.65%
```

Run 1: Report of Indigo-1-32 — Data Link

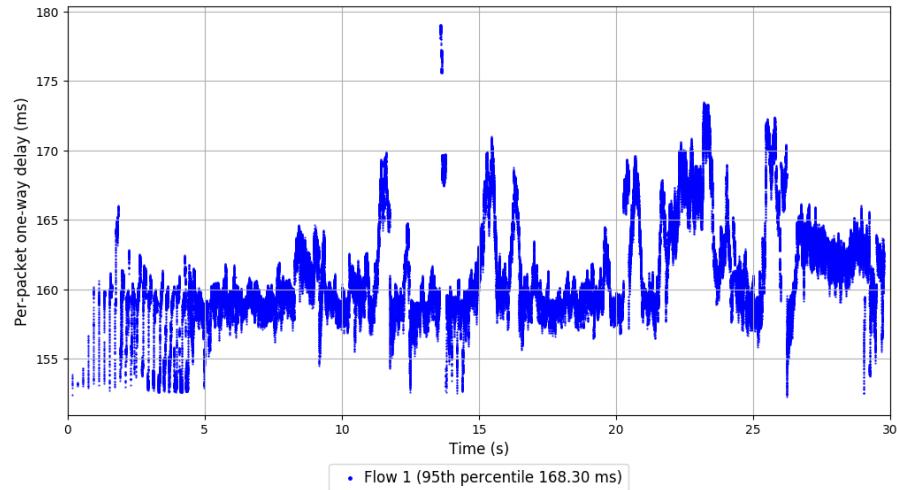
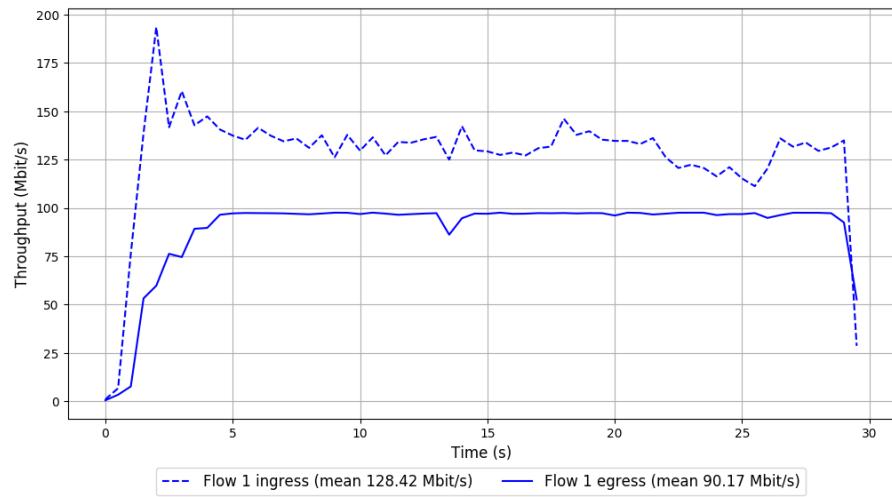


Run 2: Statistics of Indigo-1-32

```
Start at: 2018-04-17 05:17:37
End at: 2018-04-17 05:18:07
Local clock offset: 3.253 ms
Remote clock offset: -8.446 ms

# Below is generated by plot.py at 2018-04-17 09:06:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.17 Mbit/s
95th percentile per-packet one-way delay: 168.296 ms
Loss rate: 29.77%
-- Flow 1:
Average throughput: 90.17 Mbit/s
95th percentile per-packet one-way delay: 168.296 ms
Loss rate: 29.77%
```

Run 2: Report of Indigo-1-32 — Data Link

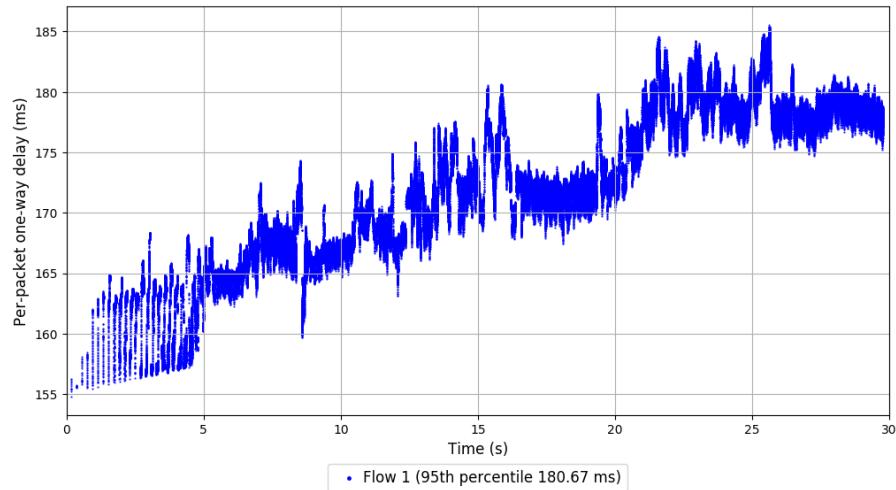
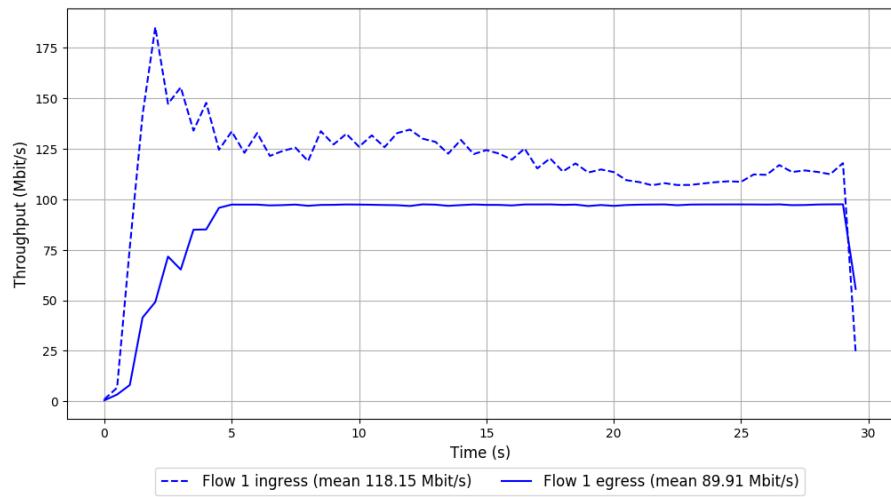


Run 3: Statistics of Indigo-1-32

```
Start at: 2018-04-17 05:38:49
End at: 2018-04-17 05:39:19
Local clock offset: 10.269 ms
Remote clock offset: 0.08 ms

# Below is generated by plot.py at 2018-04-17 09:06:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.91 Mbit/s
95th percentile per-packet one-way delay: 180.666 ms
Loss rate: 23.85%
-- Flow 1:
Average throughput: 89.91 Mbit/s
95th percentile per-packet one-way delay: 180.666 ms
Loss rate: 23.85%
```

Run 3: Report of Indigo-1-32 — Data Link

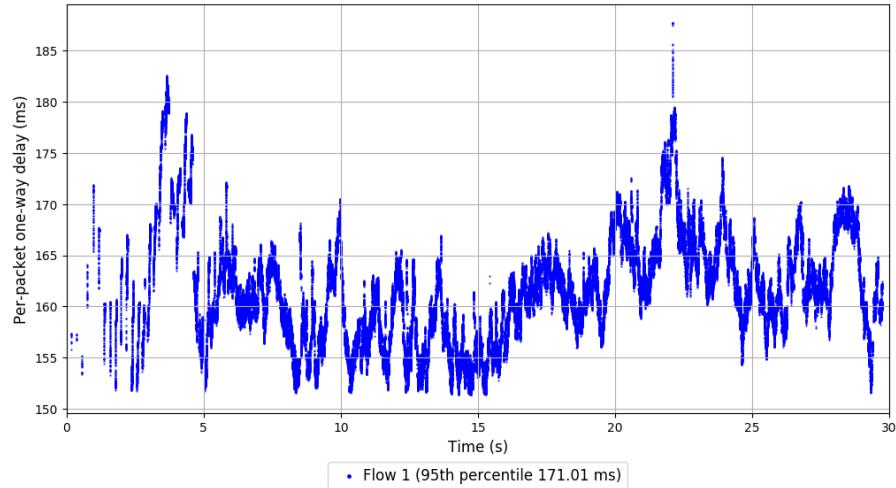
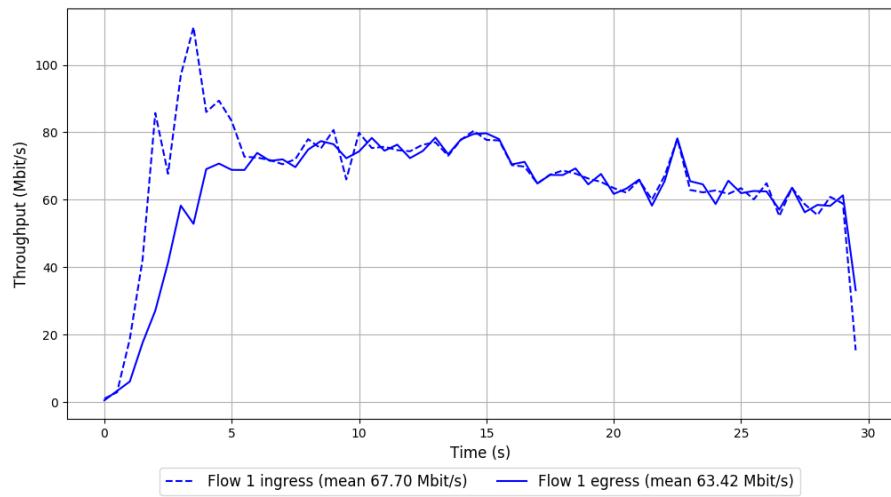


Run 4: Statistics of Indigo-1-32

```
Start at: 2018-04-17 06:00:02
End at: 2018-04-17 06:00:32
Local clock offset: 12.758 ms
Remote clock offset: 2.84 ms

# Below is generated by plot.py at 2018-04-17 09:06:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.42 Mbit/s
95th percentile per-packet one-way delay: 171.011 ms
Loss rate: 6.30%
-- Flow 1:
Average throughput: 63.42 Mbit/s
95th percentile per-packet one-way delay: 171.011 ms
Loss rate: 6.30%
```

Run 4: Report of Indigo-1-32 — Data Link

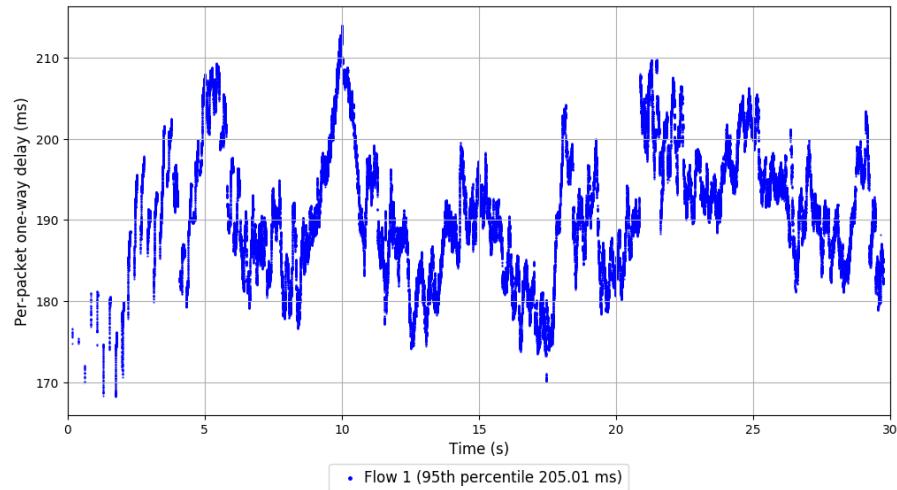
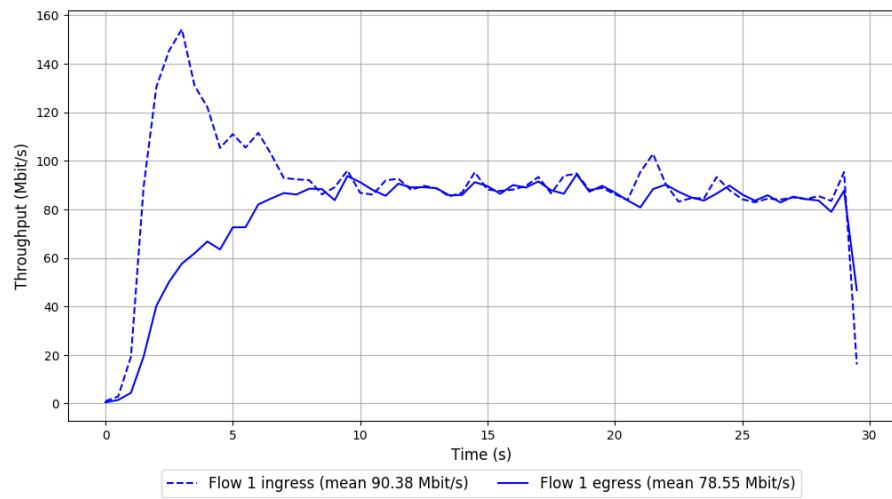


Run 5: Statistics of Indigo-1-32

```
Start at: 2018-04-17 06:21:16
End at: 2018-04-17 06:21:46
Local clock offset: 8.463 ms
Remote clock offset: -18.738 ms

# Below is generated by plot.py at 2018-04-17 09:06:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.55 Mbit/s
95th percentile per-packet one-way delay: 205.013 ms
Loss rate: 13.07%
-- Flow 1:
Average throughput: 78.55 Mbit/s
95th percentile per-packet one-way delay: 205.013 ms
Loss rate: 13.07%
```

Run 5: Report of Indigo-1-32 — Data Link

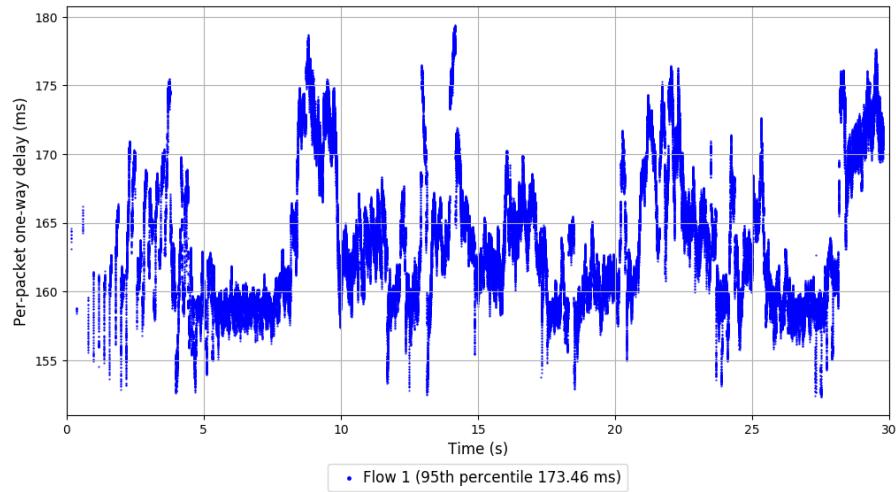
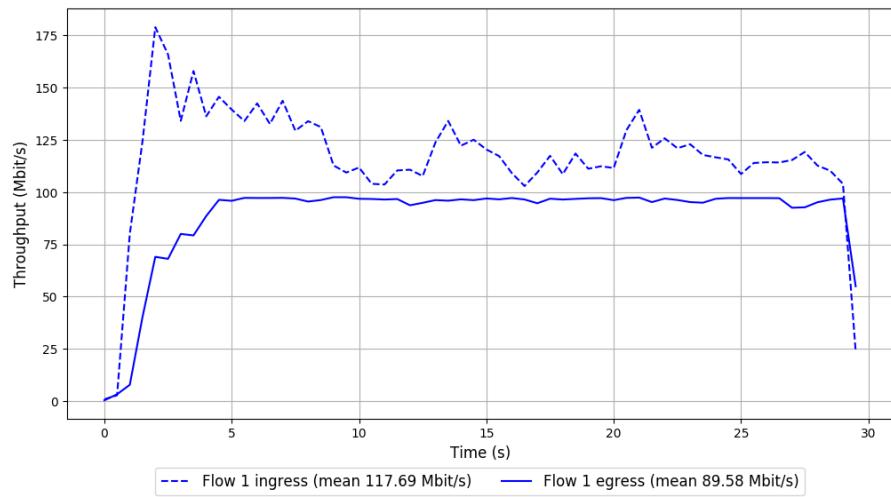


Run 6: Statistics of Indigo-1-32

```
Start at: 2018-04-17 06:48:05
End at: 2018-04-17 06:48:35
Local clock offset: 0.721 ms
Remote clock offset: 3.513 ms

# Below is generated by plot.py at 2018-04-17 09:07:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.58 Mbit/s
95th percentile per-packet one-way delay: 173.458 ms
Loss rate: 23.87%
-- Flow 1:
Average throughput: 89.58 Mbit/s
95th percentile per-packet one-way delay: 173.458 ms
Loss rate: 23.87%
```

Run 6: Report of Indigo-1-32 — Data Link

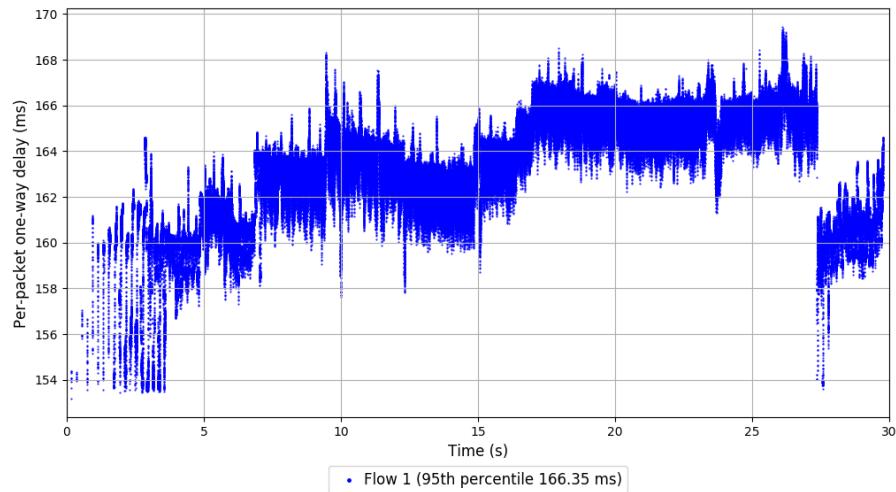
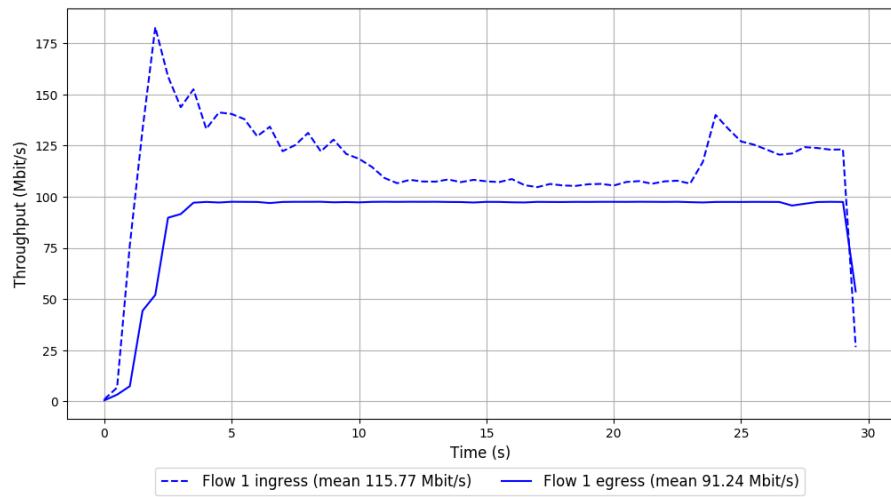


Run 7: Statistics of Indigo-1-32

```
Start at: 2018-04-17 07:10:02
End at: 2018-04-17 07:10:32
Local clock offset: 0.091 ms
Remote clock offset: -4.494 ms

# Below is generated by plot.py at 2018-04-17 09:07:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.24 Mbit/s
95th percentile per-packet one-way delay: 166.354 ms
Loss rate: 21.16%
-- Flow 1:
Average throughput: 91.24 Mbit/s
95th percentile per-packet one-way delay: 166.354 ms
Loss rate: 21.16%
```

Run 7: Report of Indigo-1-32 — Data Link

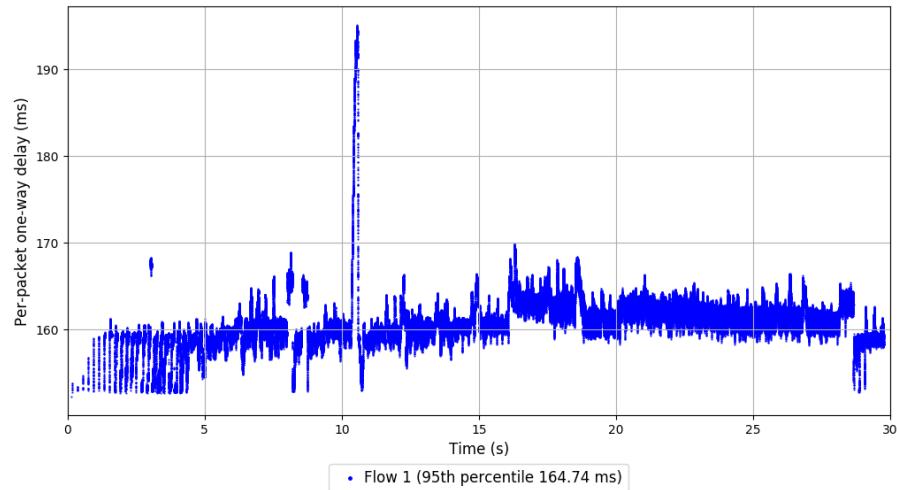
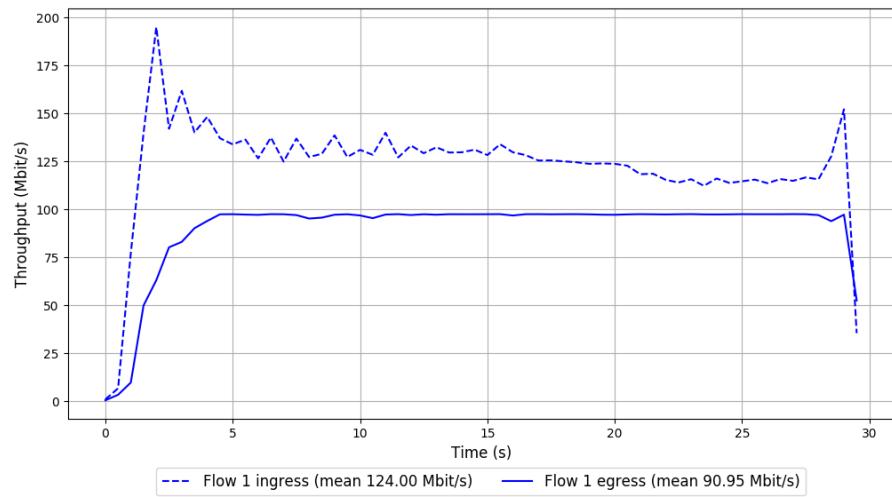


Run 8: Statistics of Indigo-1-32

```
Start at: 2018-04-17 07:31:21
End at: 2018-04-17 07:31:51
Local clock offset: 7.124 ms
Remote clock offset: 6.772 ms

# Below is generated by plot.py at 2018-04-17 09:07:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.95 Mbit/s
95th percentile per-packet one-way delay: 164.741 ms
Loss rate: 26.63%
-- Flow 1:
Average throughput: 90.95 Mbit/s
95th percentile per-packet one-way delay: 164.741 ms
Loss rate: 26.63%
```

Run 8: Report of Indigo-1-32 — Data Link

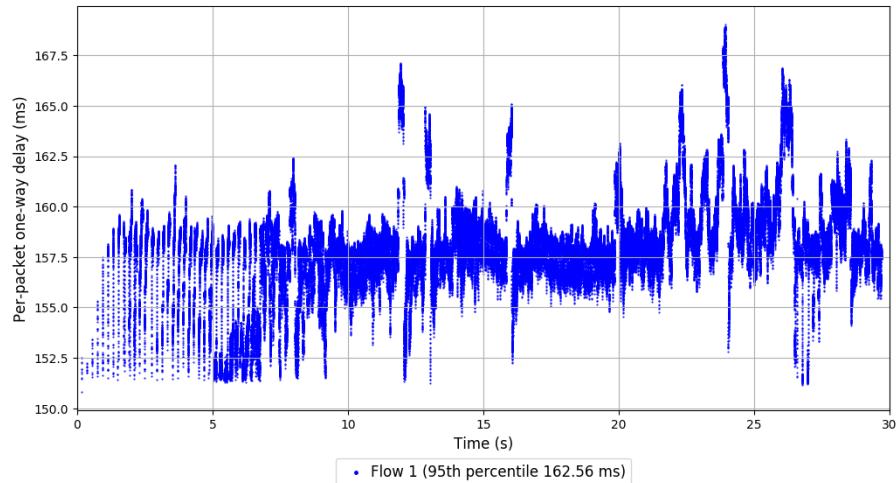
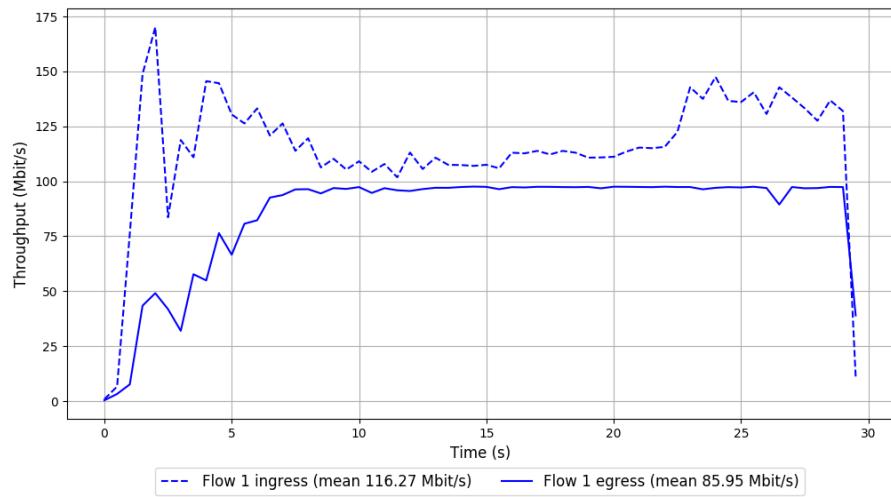


Run 9: Statistics of Indigo-1-32

```
Start at: 2018-04-17 07:53:13
End at: 2018-04-17 07:53:43
Local clock offset: 6.701 ms
Remote clock offset: 13.808 ms

# Below is generated by plot.py at 2018-04-17 09:07:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.95 Mbit/s
95th percentile per-packet one-way delay: 162.559 ms
Loss rate: 26.05%
-- Flow 1:
Average throughput: 85.95 Mbit/s
95th percentile per-packet one-way delay: 162.559 ms
Loss rate: 26.05%
```

Run 9: Report of Indigo-1-32 — Data Link

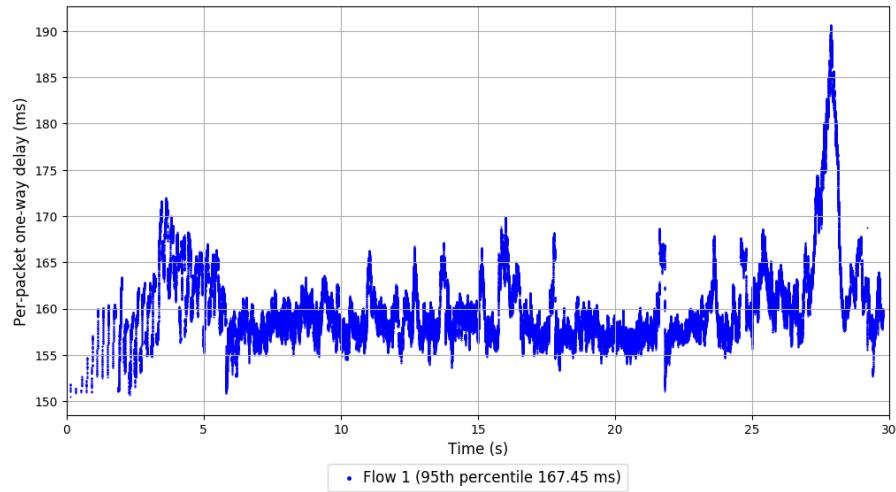
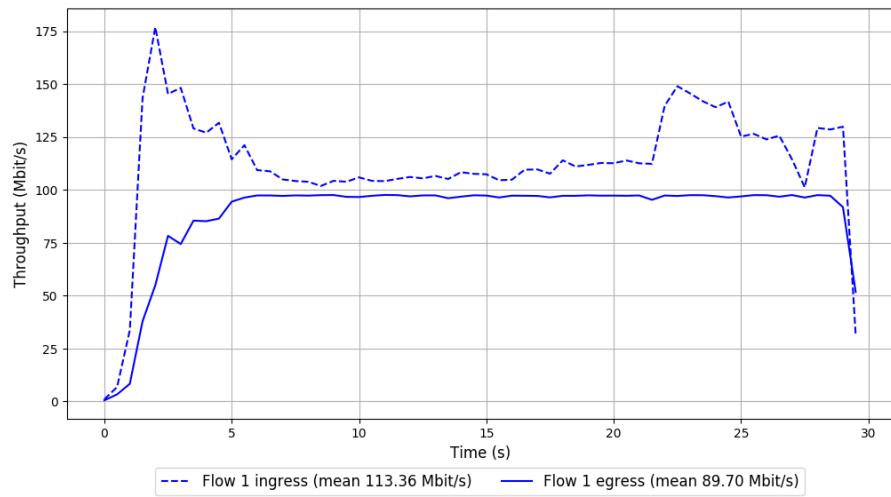


Run 10: Statistics of Indigo-1-32

```
Start at: 2018-04-17 08:15:40
End at: 2018-04-17 08:16:10
Local clock offset: 6.228 ms
Remote clock offset: 4.774 ms

# Below is generated by plot.py at 2018-04-17 09:07:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.70 Mbit/s
95th percentile per-packet one-way delay: 167.449 ms
Loss rate: 20.84%
-- Flow 1:
Average throughput: 89.70 Mbit/s
95th percentile per-packet one-way delay: 167.449 ms
Loss rate: 20.84%
```

Run 10: Report of Indigo-1-32 — Data Link

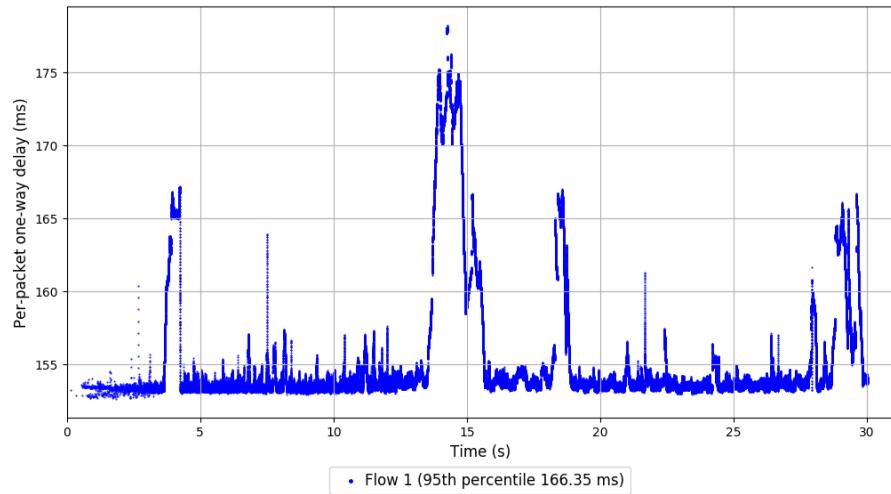
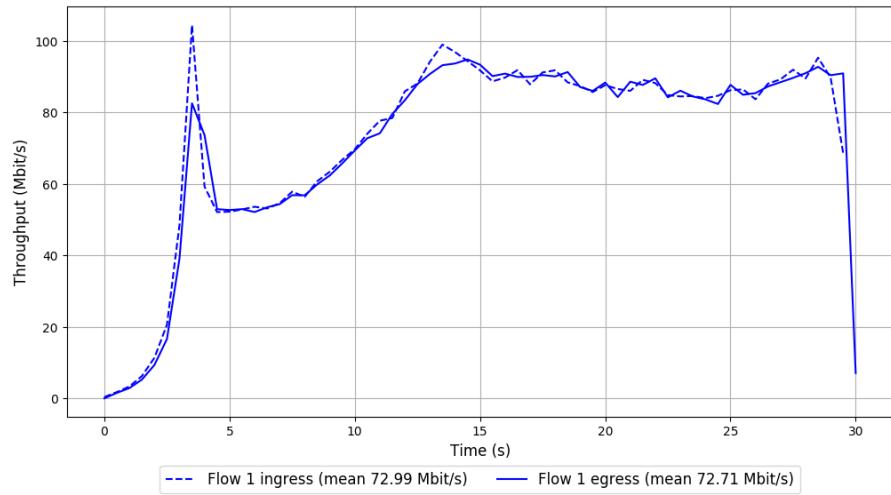


Run 1: Statistics of PCC-Vivace

```
Start at: 2018-04-17 04:58:59
End at: 2018-04-17 04:59:29
Local clock offset: 6.796 ms
Remote clock offset: -13.636 ms

# Below is generated by plot.py at 2018-04-17 09:07:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.71 Mbit/s
95th percentile per-packet one-way delay: 166.346 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 72.71 Mbit/s
95th percentile per-packet one-way delay: 166.346 ms
Loss rate: 0.37%
```

Run 1: Report of PCC-Vivace — Data Link

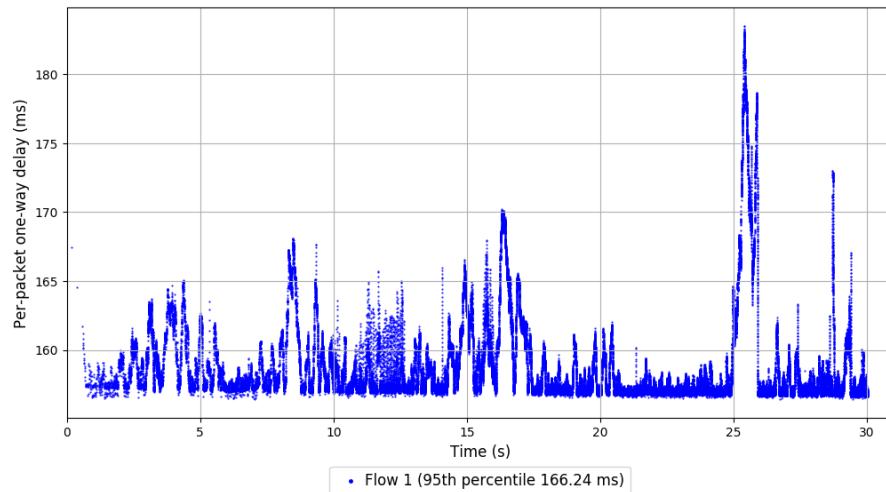
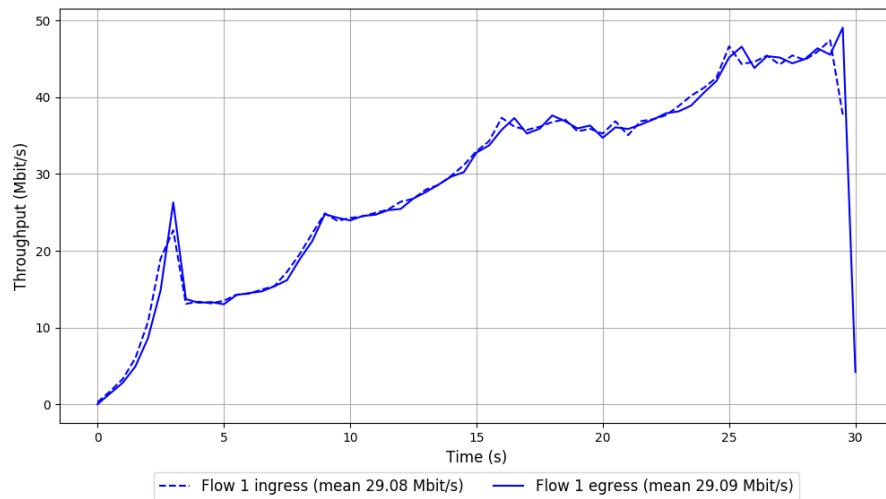


Run 2: Statistics of PCC-Vivace

```
Start at: 2018-04-17 05:20:12
End at: 2018-04-17 05:20:42
Local clock offset: 2.832 ms
Remote clock offset: -5.757 ms

# Below is generated by plot.py at 2018-04-17 09:07:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 29.09 Mbit/s
95th percentile per-packet one-way delay: 166.239 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 29.09 Mbit/s
95th percentile per-packet one-way delay: 166.239 ms
Loss rate: 0.02%
```

Run 2: Report of PCC-Vivace — Data Link

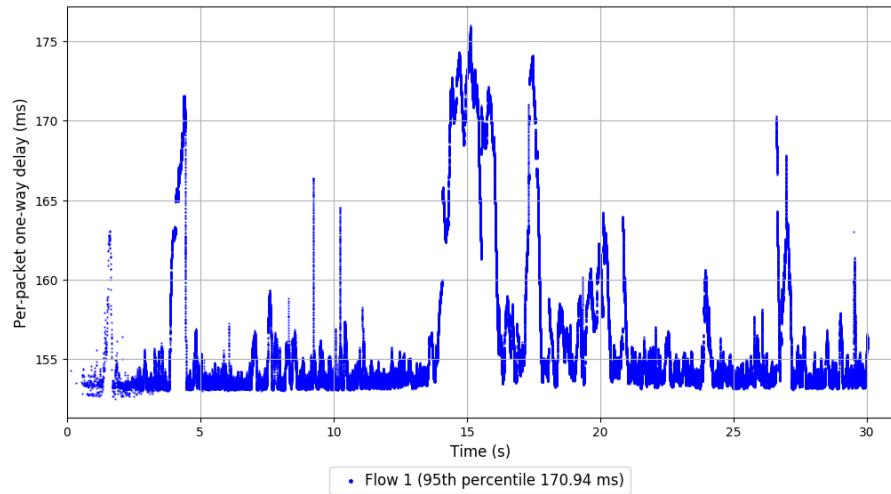
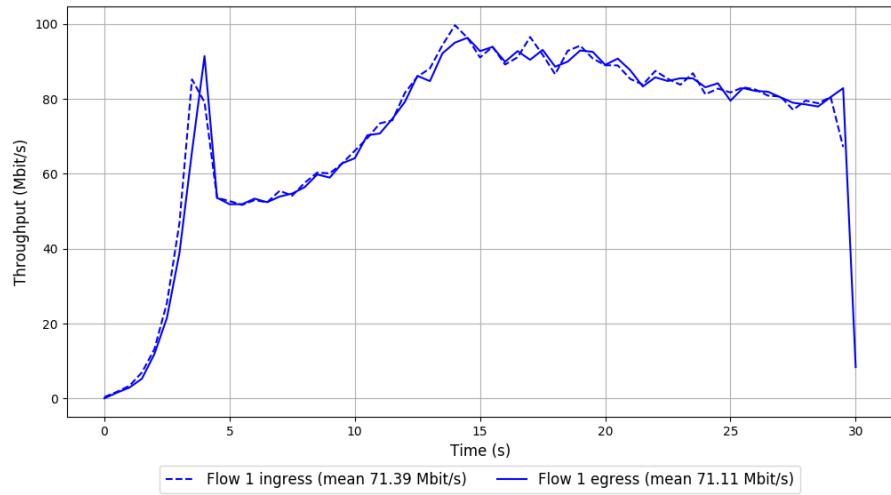


Run 3: Statistics of PCC-Vivace

```
Start at: 2018-04-17 05:41:23
End at: 2018-04-17 05:41:53
Local clock offset: 10.956 ms
Remote clock offset: -15.551 ms

# Below is generated by plot.py at 2018-04-17 09:07:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.11 Mbit/s
95th percentile per-packet one-way delay: 170.943 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 71.11 Mbit/s
95th percentile per-packet one-way delay: 170.943 ms
Loss rate: 0.39%
```

Run 3: Report of PCC-Vivace — Data Link

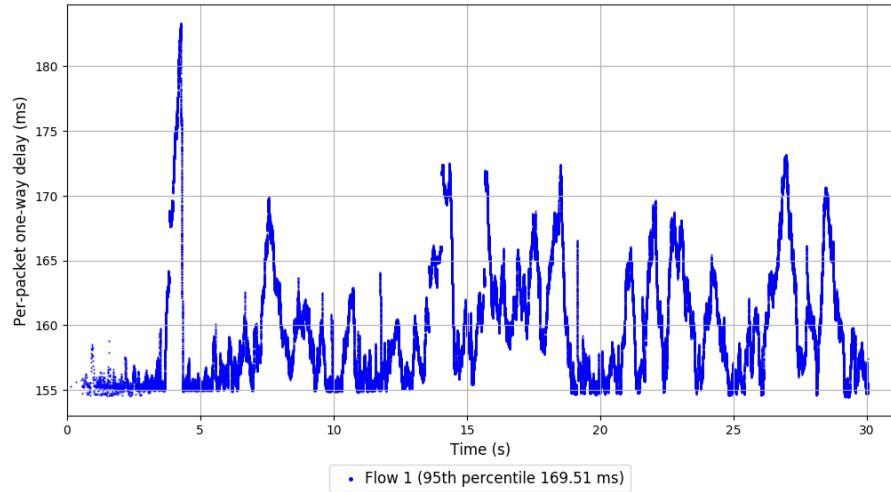
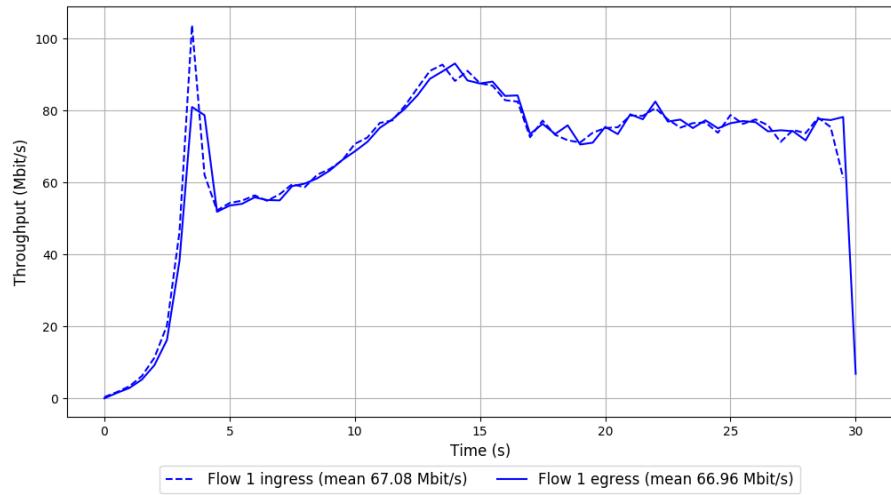


Run 4: Statistics of PCC-Vivace

```
Start at: 2018-04-17 06:02:36
End at: 2018-04-17 06:03:06
Local clock offset: 11.464 ms
Remote clock offset: 6.073 ms

# Below is generated by plot.py at 2018-04-17 09:07:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.96 Mbit/s
95th percentile per-packet one-way delay: 169.509 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 66.96 Mbit/s
95th percentile per-packet one-way delay: 169.509 ms
Loss rate: 0.18%
```

Run 4: Report of PCC-Vivace — Data Link

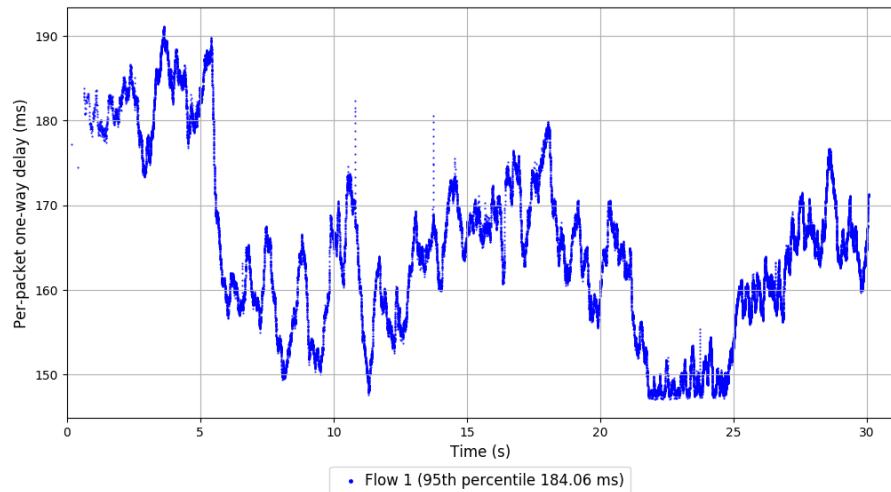
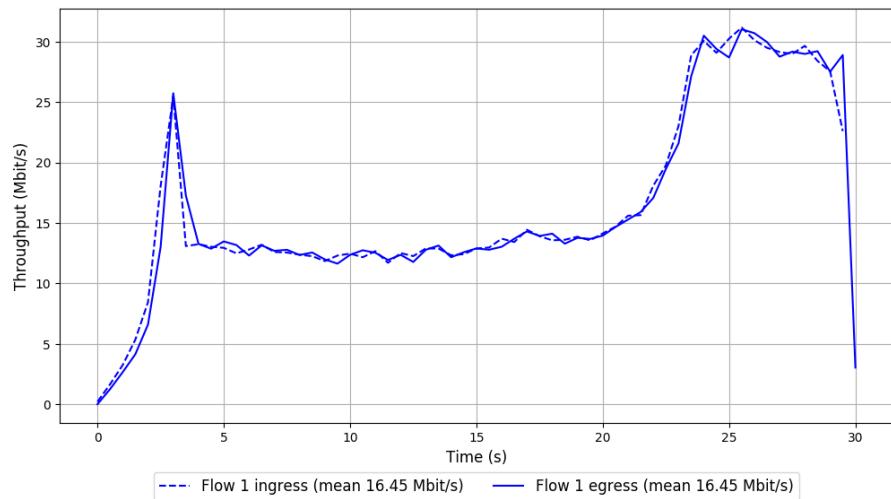


Run 5: Statistics of PCC-Vivace

```
Start at: 2018-04-17 06:23:51
End at: 2018-04-17 06:24:21
Local clock offset: 8.589 ms
Remote clock offset: -9.646 ms

# Below is generated by plot.py at 2018-04-17 09:07:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.45 Mbit/s
95th percentile per-packet one-way delay: 184.063 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 16.45 Mbit/s
95th percentile per-packet one-way delay: 184.063 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link

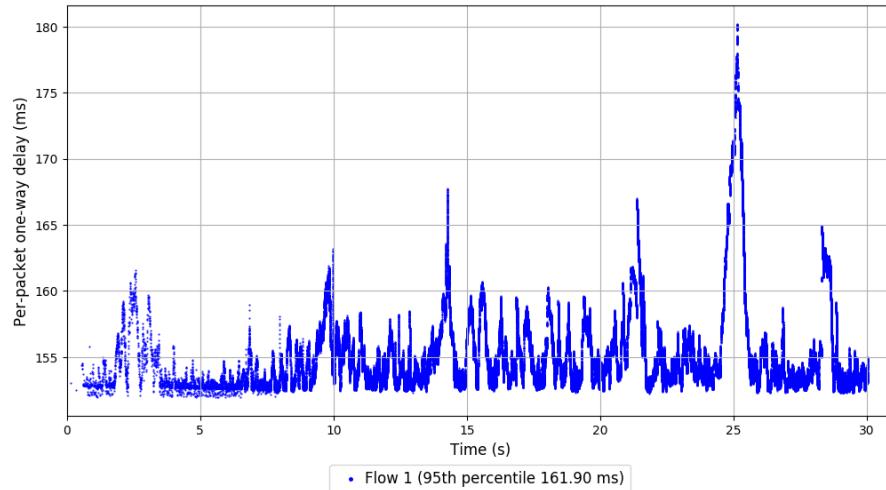
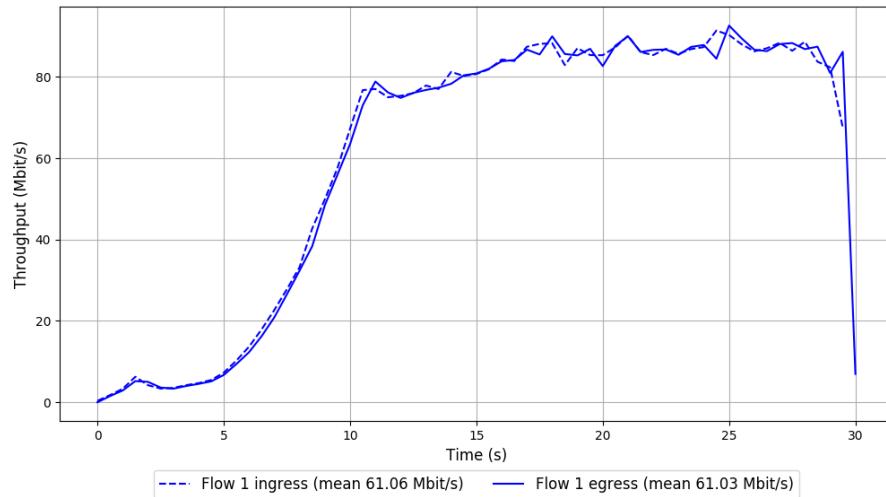


Run 6: Statistics of PCC-Vivace

```
Start at: 2018-04-17 06:50:41
End at: 2018-04-17 06:51:11
Local clock offset: -0.201 ms
Remote clock offset: 5.293 ms

# Below is generated by plot.py at 2018-04-17 09:08:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.03 Mbit/s
95th percentile per-packet one-way delay: 161.898 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 61.03 Mbit/s
95th percentile per-packet one-way delay: 161.898 ms
Loss rate: 0.04%
```

Run 6: Report of PCC-Vivace — Data Link

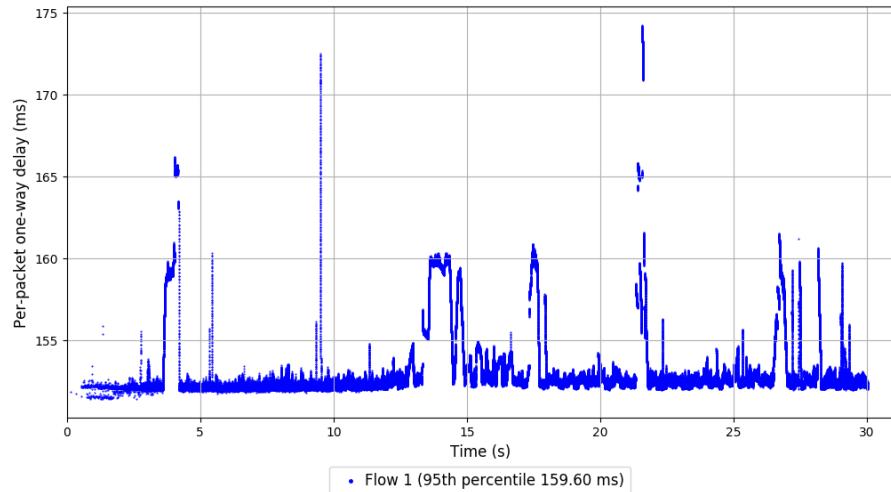
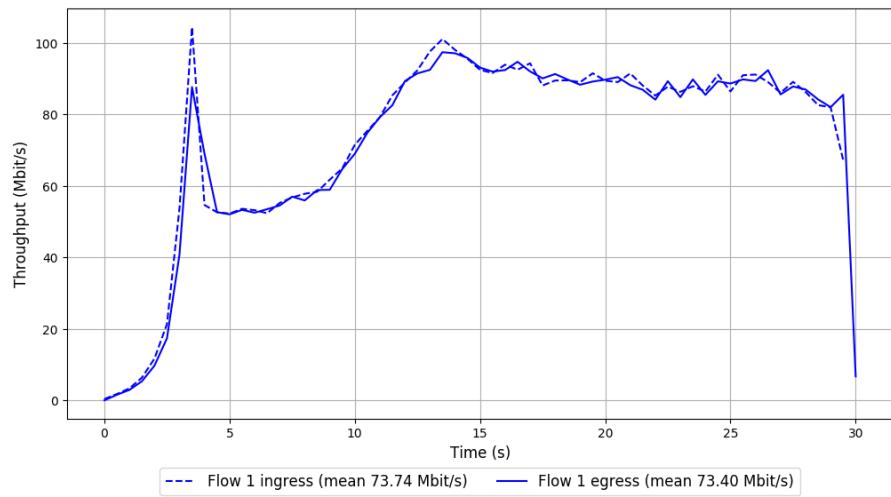


Run 7: Statistics of PCC-Vivace

```
Start at: 2018-04-17 07:12:36
End at: 2018-04-17 07:13:06
Local clock offset: 2.324 ms
Remote clock offset: -3.096 ms

# Below is generated by plot.py at 2018-04-17 09:08:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.40 Mbit/s
95th percentile per-packet one-way delay: 159.599 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 73.40 Mbit/s
95th percentile per-packet one-way delay: 159.599 ms
Loss rate: 0.46%
```

Run 7: Report of PCC-Vivace — Data Link

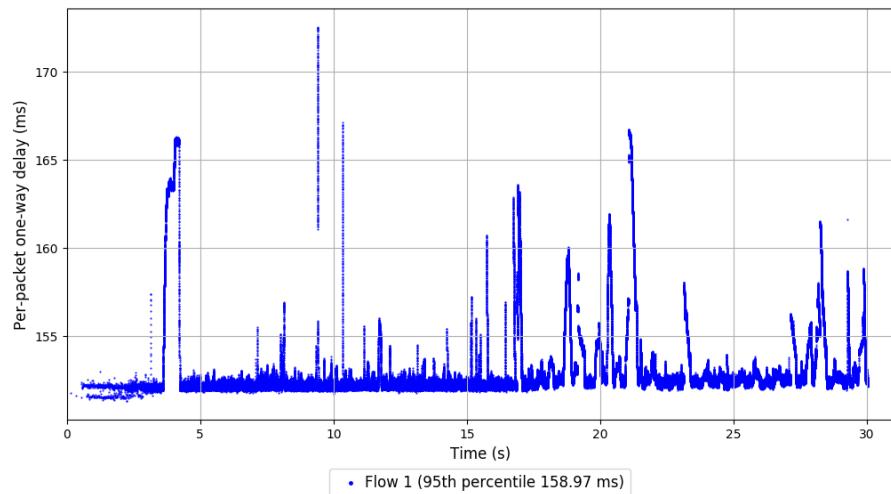
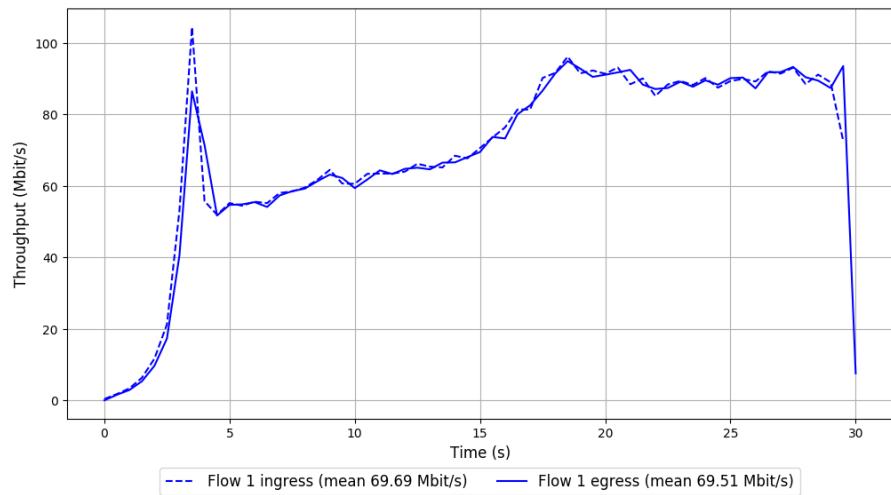


Run 8: Statistics of PCC-Vivace

```
Start at: 2018-04-17 07:33:54
End at: 2018-04-17 07:34:24
Local clock offset: 7.084 ms
Remote clock offset: 7.065 ms

# Below is generated by plot.py at 2018-04-17 09:08:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.51 Mbit/s
95th percentile per-packet one-way delay: 158.973 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 69.51 Mbit/s
95th percentile per-packet one-way delay: 158.973 ms
Loss rate: 0.25%
```

Run 8: Report of PCC-Vivace — Data Link

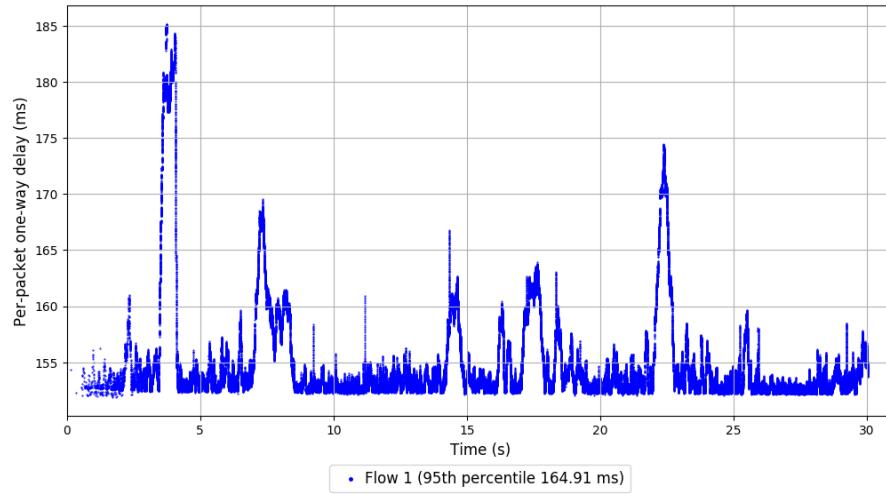
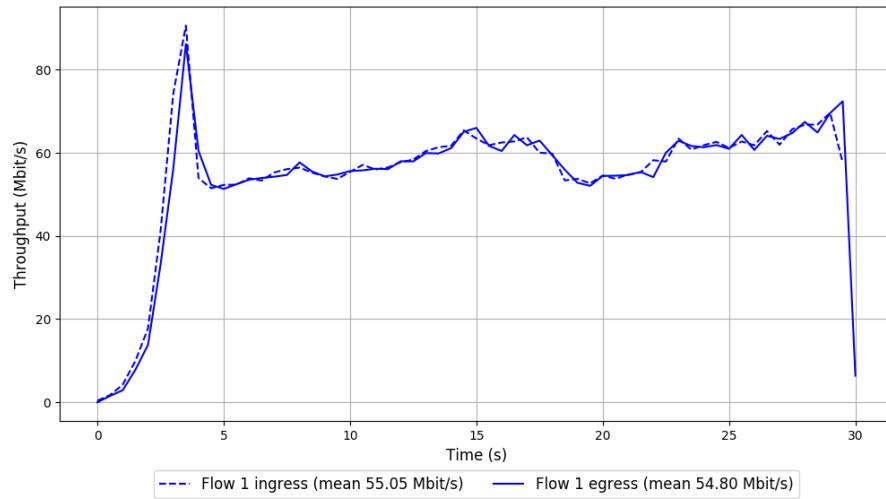


Run 9: Statistics of PCC-Vivace

```
Start at: 2018-04-17 07:55:48
End at: 2018-04-17 07:56:18
Local clock offset: 6.677 ms
Remote clock offset: 15.008 ms

# Below is generated by plot.py at 2018-04-17 09:08:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.80 Mbit/s
95th percentile per-packet one-way delay: 164.908 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 54.80 Mbit/s
95th percentile per-packet one-way delay: 164.908 ms
Loss rate: 0.47%
```

Run 9: Report of PCC-Vivace — Data Link

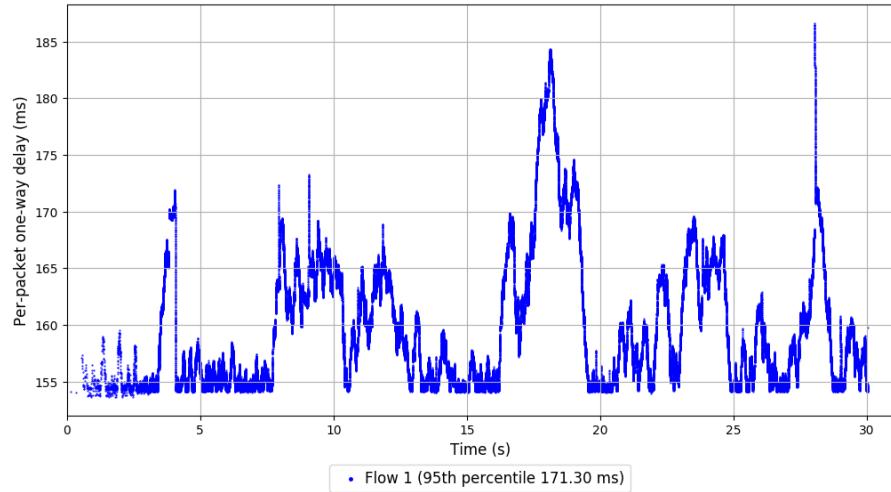
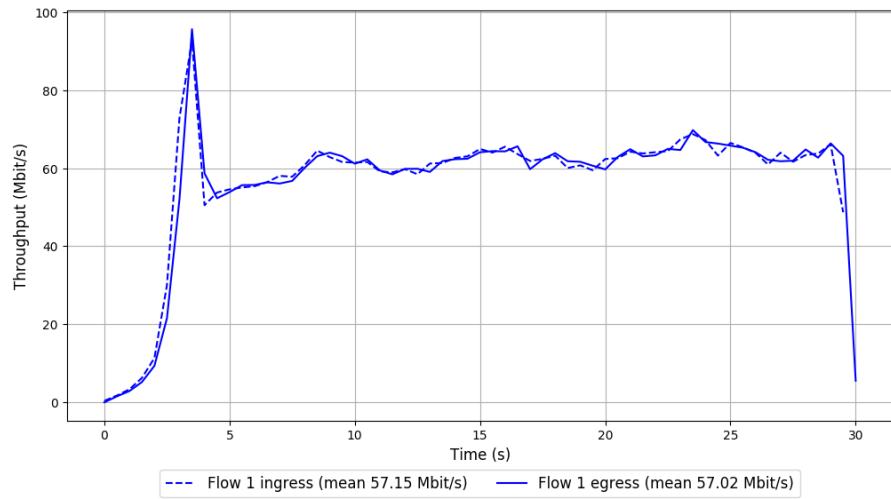


Run 10: Statistics of PCC-Vivace

```
Start at: 2018-04-17 08:18:14
End at: 2018-04-17 08:18:44
Local clock offset: 4.572 ms
Remote clock offset: 3.714 ms

# Below is generated by plot.py at 2018-04-17 09:08:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.02 Mbit/s
95th percentile per-packet one-way delay: 171.303 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 57.02 Mbit/s
95th percentile per-packet one-way delay: 171.303 ms
Loss rate: 0.21%
```

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-17 05:01:29

End at: 2018-04-17 05:01:59

Local clock offset: 6.106 ms

Remote clock offset: -13.78 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-04-17 05:22:40
End at: 2018-04-17 05:23:10
Local clock offset: 2.841 ms
Remote clock offset: -3.471 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-04-17 05:43:54
End at: 2018-04-17 05:44:24
Local clock offset: 11.356 ms
Remote clock offset: -15.027 ms

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-04-17 06:05:06

End at: 2018-04-17 06:05:36

Local clock offset: 10.544 ms

Remote clock offset: 7.722 ms

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-04-17 06:26:18
End at: 2018-04-17 06:26:49
Local clock offset: 8.38 ms
Remote clock offset: -9.221 ms

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-17 06:53:10

End at: 2018-04-17 06:53:40

Local clock offset: -0.484 ms

Remote clock offset: 7.192 ms

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-04-17 07:15:06

End at: 2018-04-17 07:15:36

Local clock offset: 3.635 ms

Remote clock offset: -1.864 ms

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-17 07:36:51

End at: 2018-04-17 07:37:21

Local clock offset: 7.291 ms

Remote clock offset: 4.067 ms

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-17 07:58:17
End at: 2018-04-17 07:58:47
Local clock offset: 6.54 ms
Remote clock offset: 16.229 ms

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-17 08:20:43

End at: 2018-04-17 08:21:13

Local clock offset: 3.414 ms

Remote clock offset: 2.757 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing