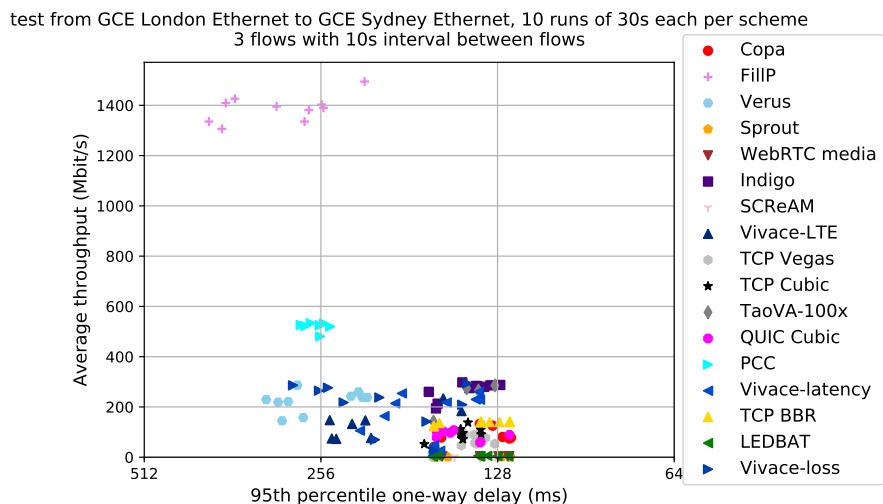
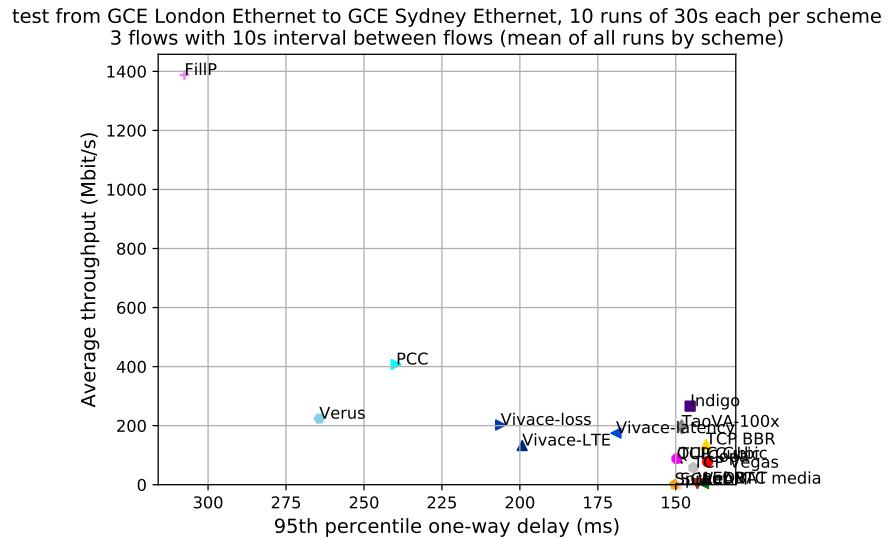


## Pantheon Report

Generated at 2018-01-18 10:01:57 (UTC).  
Data path: GCE London Ethernet (*remote*) → GCE Sydney Ethernet (*local*).  
Repeated the test of 17 congestion control schemes 10 times.  
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

Increased UDP receive buffer to 16 MB (default) and 32 MB (max).  
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo\_fast**).

```
Git summary:  
branch: master @ 54510ce29f849c716ac5c8199ca1604b6abdfbc3  
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50  
M datagrump/sender.cc  
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67  
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8  
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55  
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89  
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681  
M datagrump/sender.cc  
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf  
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993  
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1  
M receiver/src/buffer.h  
M receiver/src/core.cpp  
M sender/src/buffer.h  
M sender/src/core.cpp  
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42  
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885  
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681  
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce  
M src/examples/cellsim.cc  
M src/examples/sproutbt2.cc  
M src/network/sproutconn.cc  
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494  
M src/verus.hpp  
M tools/plot.py  
third_party/vivace @ 423cbca3e8ea1d599e7b5cf725835e8a2b6bfac6  
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```



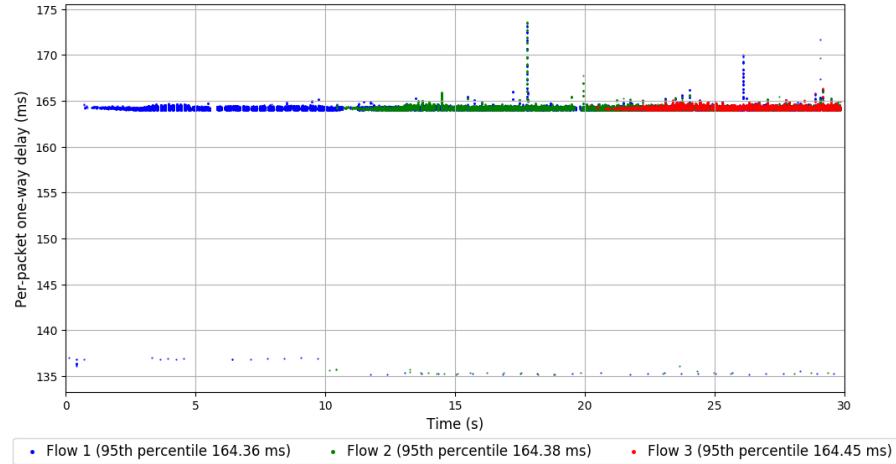
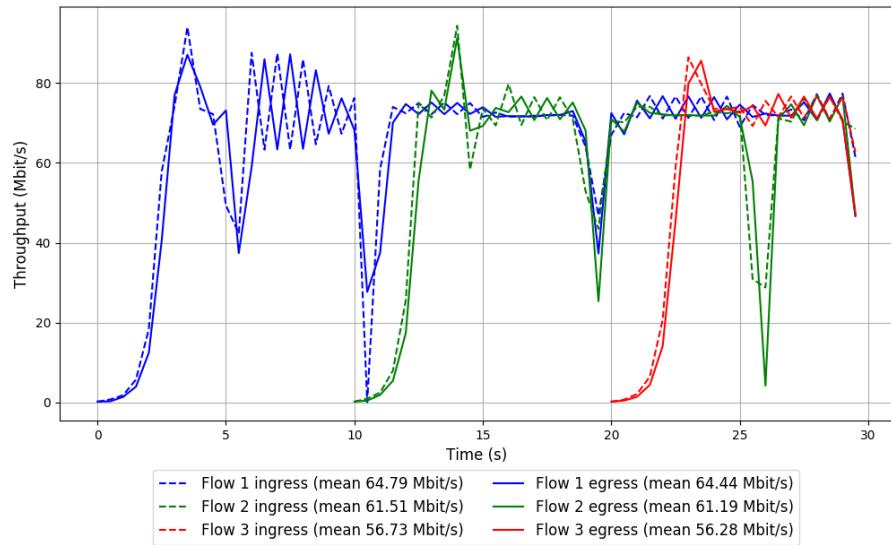
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	70.92	68.51	61.69	140.28	140.28	137.89	1.08	1.66	3.62
TCP Cubic	10	51.02	33.45	42.13	147.43	148.29	149.96	1.28	2.68	5.07
LEDBAT	10	2.47	1.70	1.07	141.22	140.98	140.78	1.64	2.58	4.42
PCC	9	352.34	64.13	39.07	242.07	233.74	234.51	3.82	3.60	5.90
QUIC Cubic	9	41.29	50.77	38.15	143.35	141.09	138.22	1.00	1.49	3.15
SCReAM	10	0.22	0.21	0.22	140.40	140.76	138.14	0.88	1.37	2.58
WebRTC media	10	1.98	1.22	0.41	134.87	140.02	143.10	1.06	1.76	5.44
Sprout	10	0.38	0.38	0.46	140.14	145.39	140.30	0.89	1.18	2.35
TaoVA-100x	5	137.48	70.61	44.31	147.74	151.34	148.43	0.81	1.18	2.34
TCP Vegas	10	19.87	38.95	37.21	141.87	143.22	148.87	1.26	1.38	3.38
Verus	10	153.90	82.18	48.33	256.44	277.74	225.92	2.85	6.65	6.20
Copa	10	55.31	28.34	15.58	142.88	137.39	137.21	1.33	1.31	3.52
FillP	10	733.16	699.12	588.67	284.86	300.37	311.80	12.40	14.42	21.17
Indigo	10	139.30	133.04	120.15	143.62	147.44	148.89	1.03	1.60	3.75
Vivace-latency	10	107.86	71.82	59.58	165.80	154.42	172.37	0.87	1.97	3.69
Vivace-loss	10	132.67	64.54	83.14	202.49	166.51	174.04	1.54	1.96	4.27
Vivace-LTE	10	65.90	71.47	61.09	183.95	212.73	175.53	1.14	2.00	2.04

```
Run 1: Statistics of TCP BBR

Start at: 2018-01-18 01:57:15
End at: 2018-01-18 01:57:45

# Below is generated by plot.py at 2018-01-18 08:30:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 123.28 Mbit/s
95th percentile per-packet one-way delay: 164.383 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 64.44 Mbit/s
95th percentile per-packet one-way delay: 164.360 ms
Loss rate: 1.27%
-- Flow 2:
Average throughput: 61.19 Mbit/s
95th percentile per-packet one-way delay: 164.382 ms
Loss rate: 1.88%
-- Flow 3:
Average throughput: 56.28 Mbit/s
95th percentile per-packet one-way delay: 164.449 ms
Loss rate: 3.78%
```

## Run 1: Report of TCP BBR — Data Link



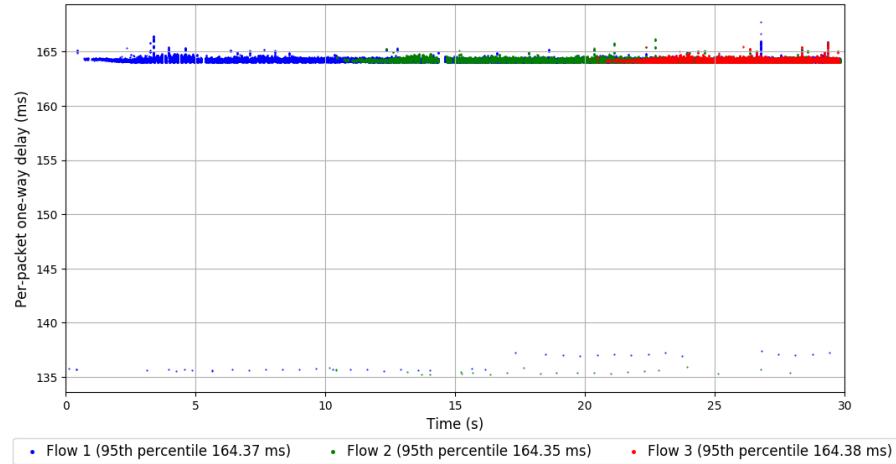
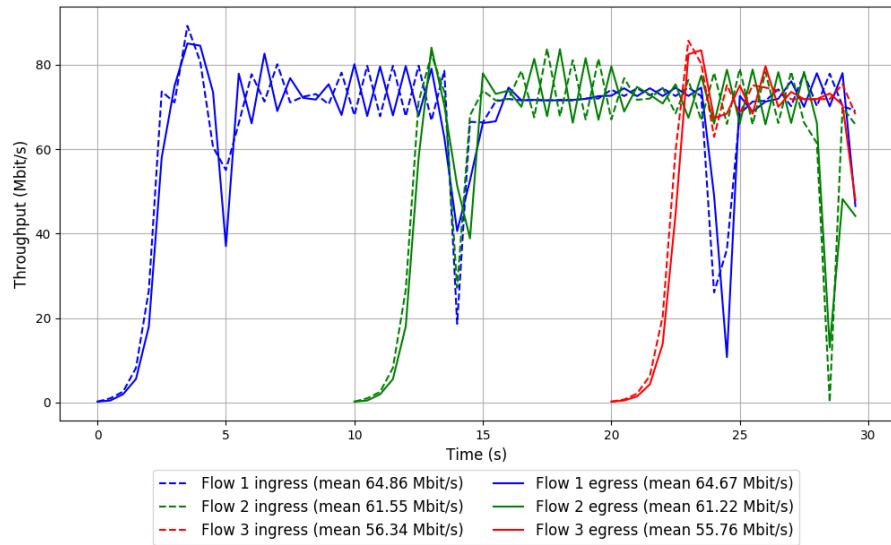
Run 2: Statistics of TCP BBR

Start at: 2018-01-18 02:15:18

End at: 2018-01-18 02:15:48

```
# Below is generated by plot.py at 2018-01-18 08:30:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 123.25 Mbit/s
95th percentile per-packet one-way delay: 164.365 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 64.67 Mbit/s
95th percentile per-packet one-way delay: 164.368 ms
Loss rate: 1.20%
-- Flow 2:
Average throughput: 61.22 Mbit/s
95th percentile per-packet one-way delay: 164.354 ms
Loss rate: 1.88%
-- Flow 3:
Average throughput: 55.76 Mbit/s
95th percentile per-packet one-way delay: 164.375 ms
Loss rate: 4.29%
```

## Run 2: Report of TCP BBR — Data Link



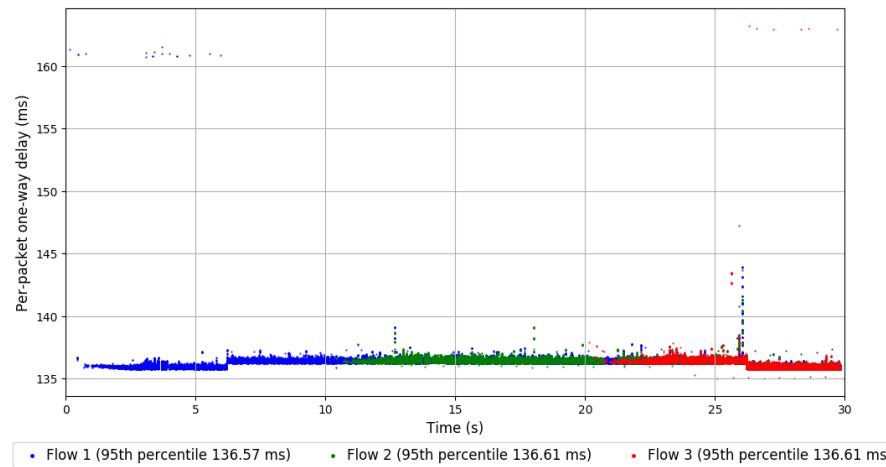
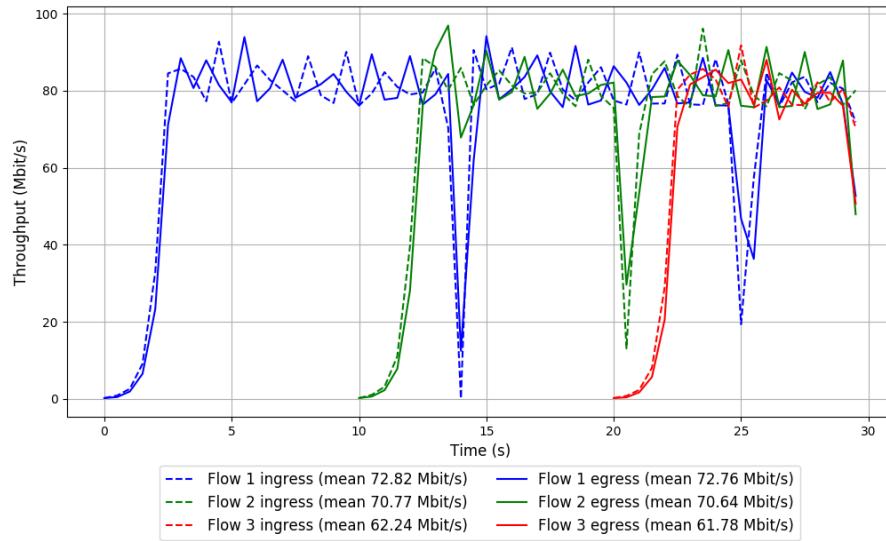
Run 3: Statistics of TCP BBR

Start at: 2018-01-18 02:33:49

End at: 2018-01-18 02:34:19

```
# Below is generated by plot.py at 2018-01-18 08:30:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 139.68 Mbit/s
95th percentile per-packet one-way delay: 136.589 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 72.76 Mbit/s
95th percentile per-packet one-way delay: 136.568 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 70.64 Mbit/s
95th percentile per-packet one-way delay: 136.609 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 61.78 Mbit/s
95th percentile per-packet one-way delay: 136.608 ms
Loss rate: 3.50%
```

### Run 3: Report of TCP BBR — Data Link



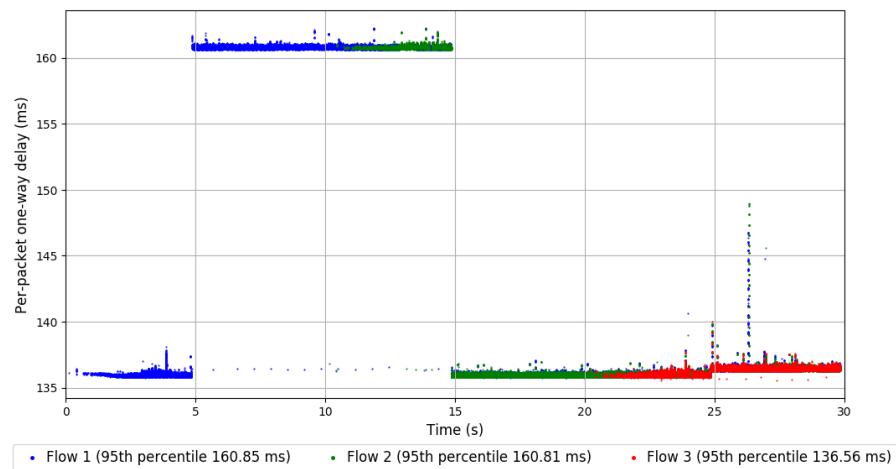
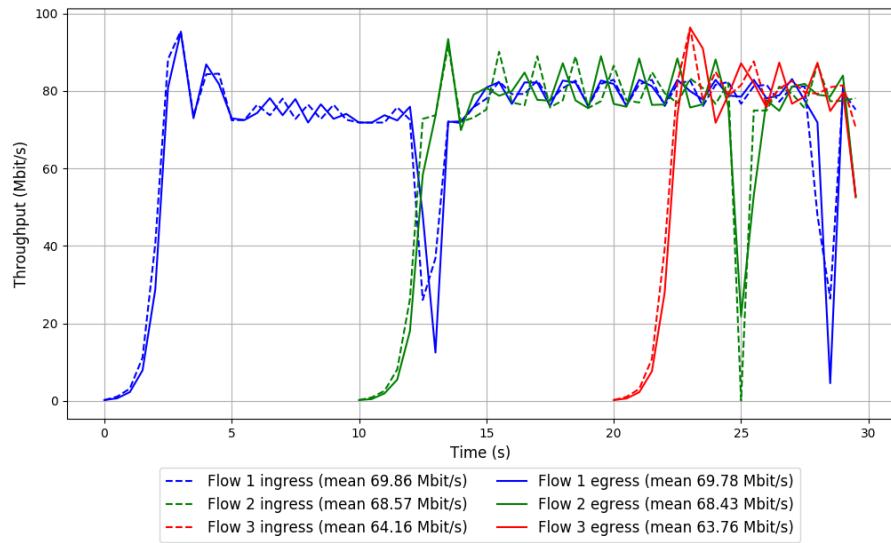
Run 4: Statistics of TCP BBR

Start at: 2018-01-18 02:54:10

End at: 2018-01-18 02:54:40

```
# Below is generated by plot.py at 2018-01-18 08:30:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 135.89 Mbit/s
95th percentile per-packet one-way delay: 160.831 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 69.78 Mbit/s
95th percentile per-packet one-way delay: 160.851 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 68.43 Mbit/s
95th percentile per-packet one-way delay: 160.814 ms
Loss rate: 1.57%
-- Flow 3:
Average throughput: 63.76 Mbit/s
95th percentile per-packet one-way delay: 136.564 ms
Loss rate: 3.36%
```

## Run 4: Report of TCP BBR — Data Link



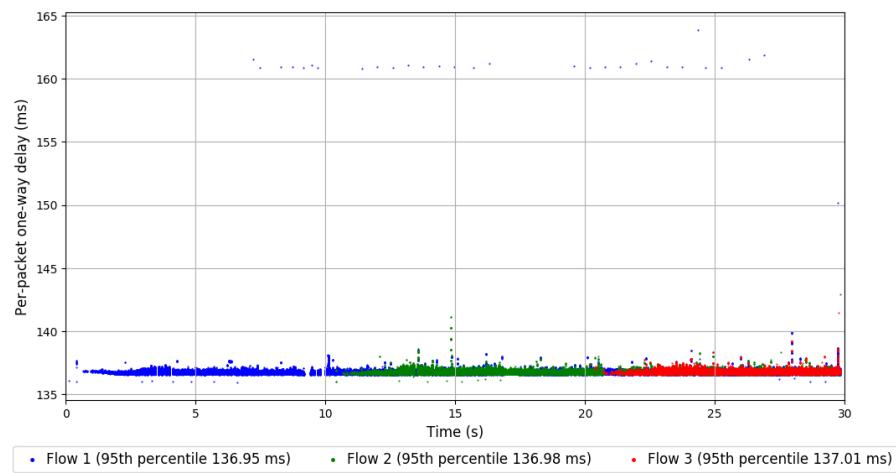
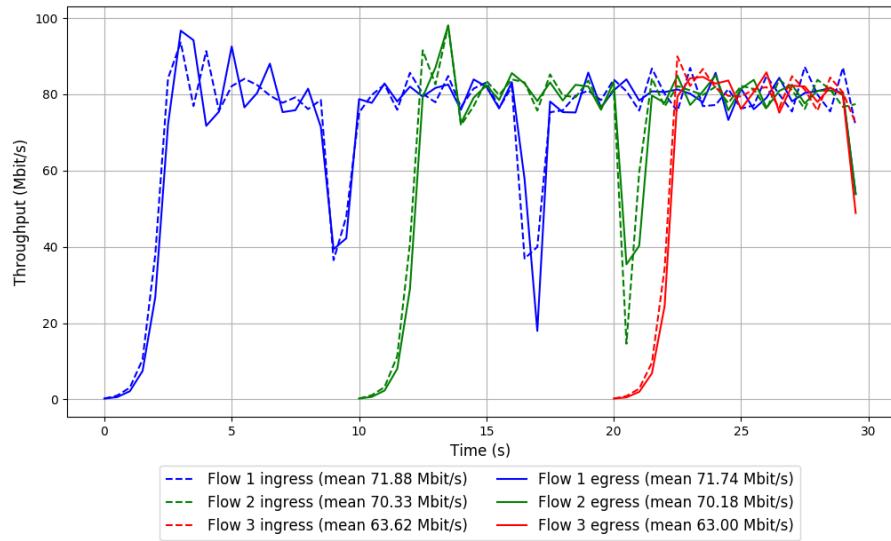
Run 5: Statistics of TCP BBR

Start at: 2018-01-18 03:13:36

End at: 2018-01-18 03:14:06

```
# Below is generated by plot.py at 2018-01-18 08:30:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 138.79 Mbit/s
95th percentile per-packet one-way delay: 136.968 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 71.74 Mbit/s
95th percentile per-packet one-way delay: 136.950 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 70.18 Mbit/s
95th percentile per-packet one-way delay: 136.977 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 63.00 Mbit/s
95th percentile per-packet one-way delay: 137.008 ms
Loss rate: 3.71%
```

## Run 5: Report of TCP BBR — Data Link



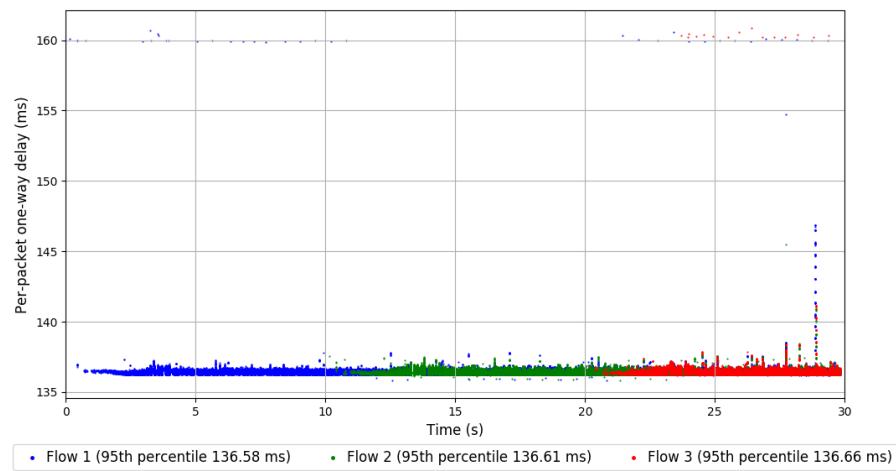
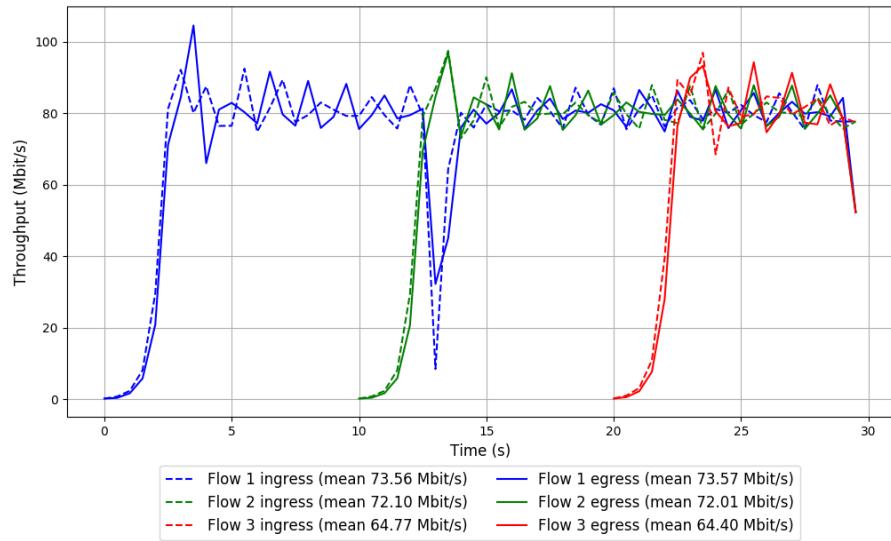
Run 6: Statistics of TCP BBR

Start at: 2018-01-18 03:33:22

End at: 2018-01-18 03:33:52

```
# Below is generated by plot.py at 2018-01-18 08:30:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 142.34 Mbit/s
95th percentile per-packet one-way delay: 136.604 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 73.57 Mbit/s
95th percentile per-packet one-way delay: 136.581 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 72.01 Mbit/s
95th percentile per-packet one-way delay: 136.613 ms
Loss rate: 1.49%
-- Flow 3:
Average throughput: 64.40 Mbit/s
95th percentile per-packet one-way delay: 136.664 ms
Loss rate: 3.31%
```

## Run 6: Report of TCP BBR — Data Link



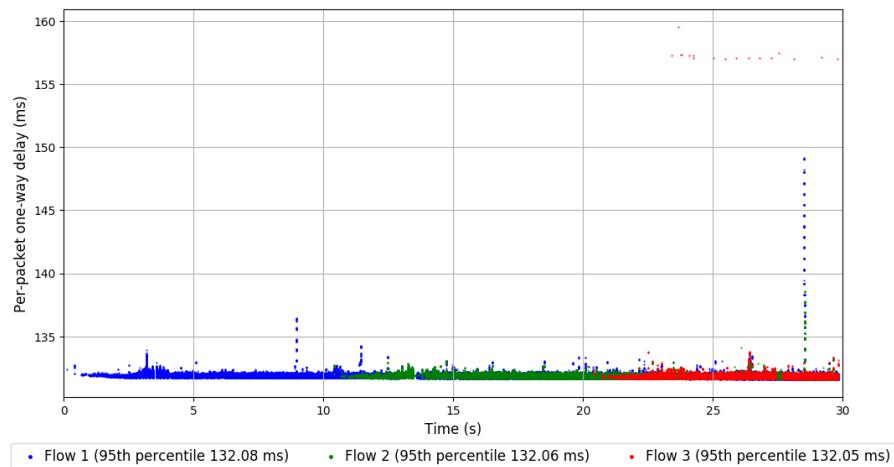
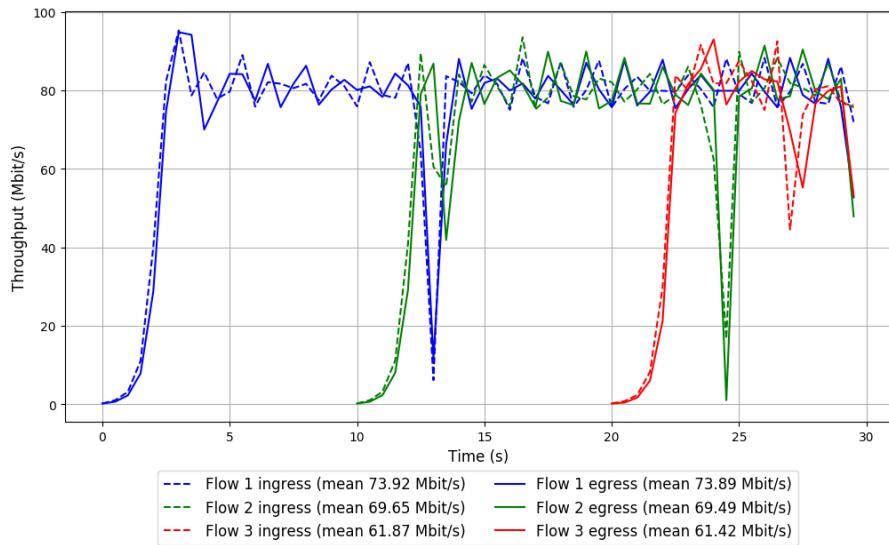
Run 7: Statistics of TCP BBR

Start at: 2018-01-18 03:52:30

End at: 2018-01-18 03:53:00

```
# Below is generated by plot.py at 2018-01-18 08:30:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 139.86 Mbit/s
95th percentile per-packet one-way delay: 132.072 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 73.89 Mbit/s
95th percentile per-packet one-way delay: 132.084 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 69.49 Mbit/s
95th percentile per-packet one-way delay: 132.062 ms
Loss rate: 1.73%
-- Flow 3:
Average throughput: 61.42 Mbit/s
95th percentile per-packet one-way delay: 132.052 ms
Loss rate: 3.43%
```

## Run 7: Report of TCP BBR — Data Link



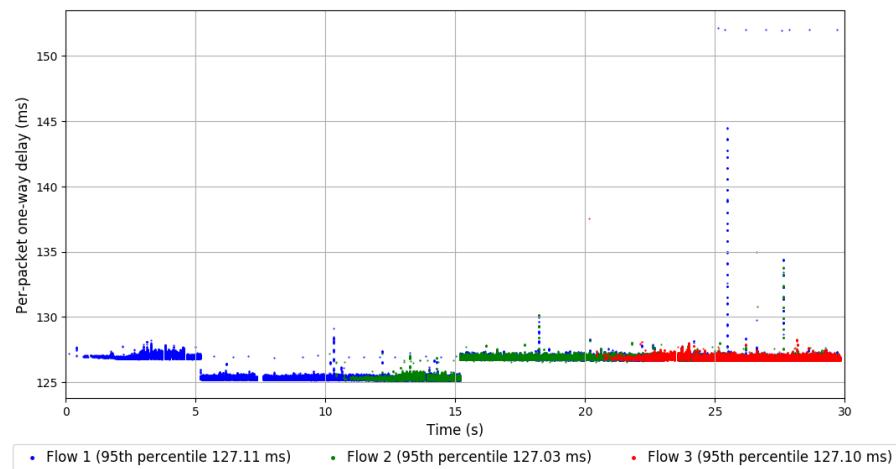
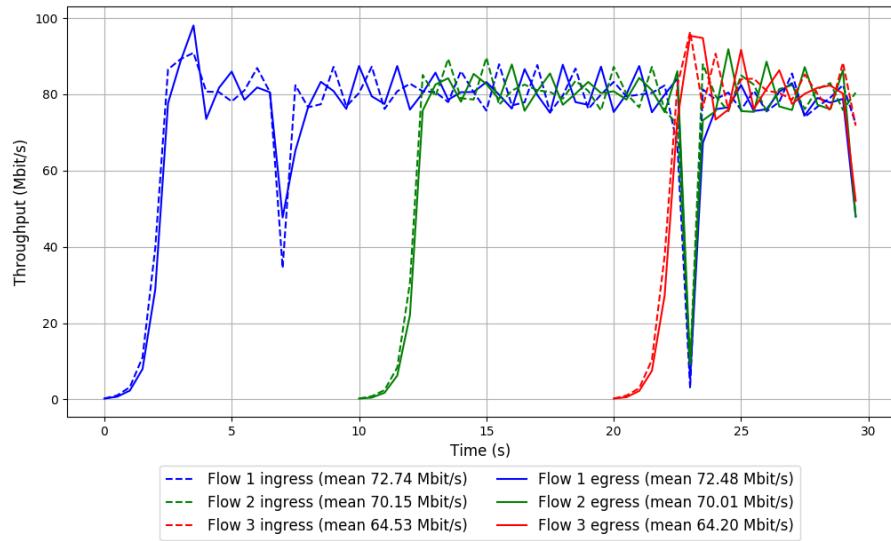
Run 8: Statistics of TCP BBR

Start at: 2018-01-18 04:12:40

End at: 2018-01-18 04:13:10

```
# Below is generated by plot.py at 2018-01-18 08:30:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 139.69 Mbit/s
95th percentile per-packet one-way delay: 127.078 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 72.48 Mbit/s
95th percentile per-packet one-way delay: 127.108 ms
Loss rate: 1.22%
-- Flow 2:
Average throughput: 70.01 Mbit/s
95th percentile per-packet one-way delay: 127.027 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 64.20 Mbit/s
95th percentile per-packet one-way delay: 127.102 ms
Loss rate: 3.36%
```

## Run 8: Report of TCP BBR — Data Link



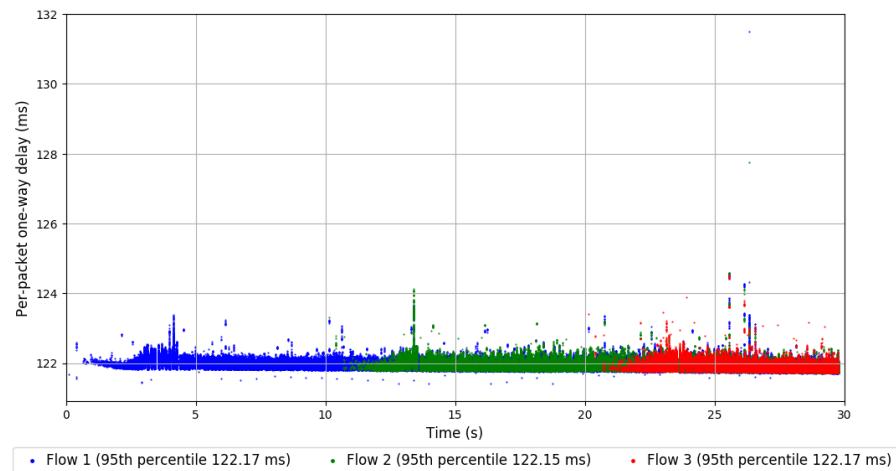
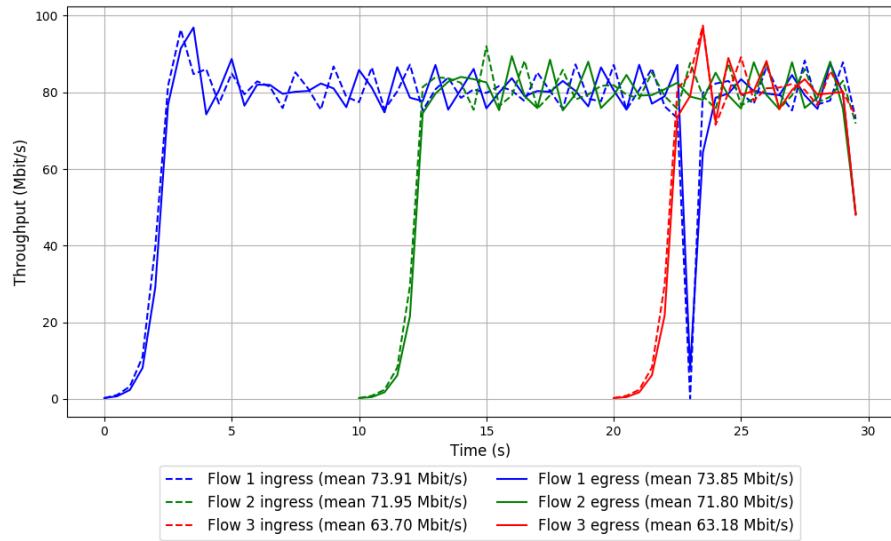
Run 9: Statistics of TCP BBR

Start at: 2018-01-18 04:32:56

End at: 2018-01-18 04:33:26

```
# Below is generated by plot.py at 2018-01-18 08:33:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 141.92 Mbit/s
95th percentile per-packet one-way delay: 122.163 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 73.85 Mbit/s
95th percentile per-packet one-way delay: 122.168 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 71.80 Mbit/s
95th percentile per-packet one-way delay: 122.152 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 63.18 Mbit/s
95th percentile per-packet one-way delay: 122.167 ms
Loss rate: 3.77%
```

### Run 9: Report of TCP BBR — Data Link



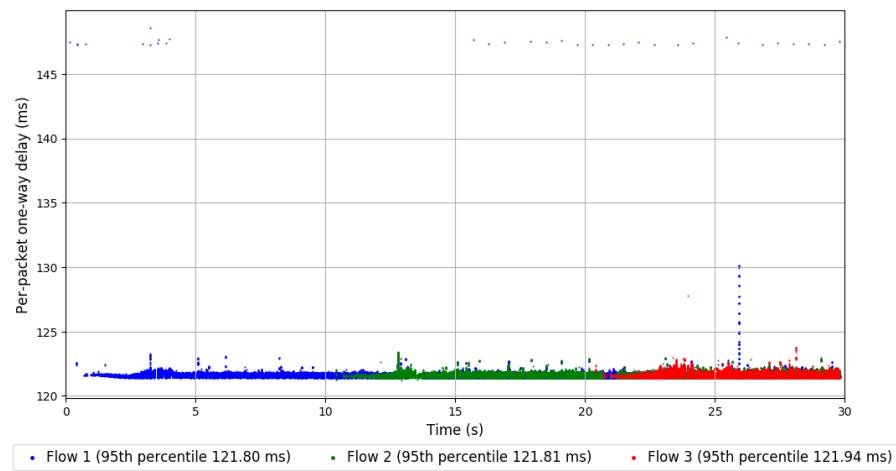
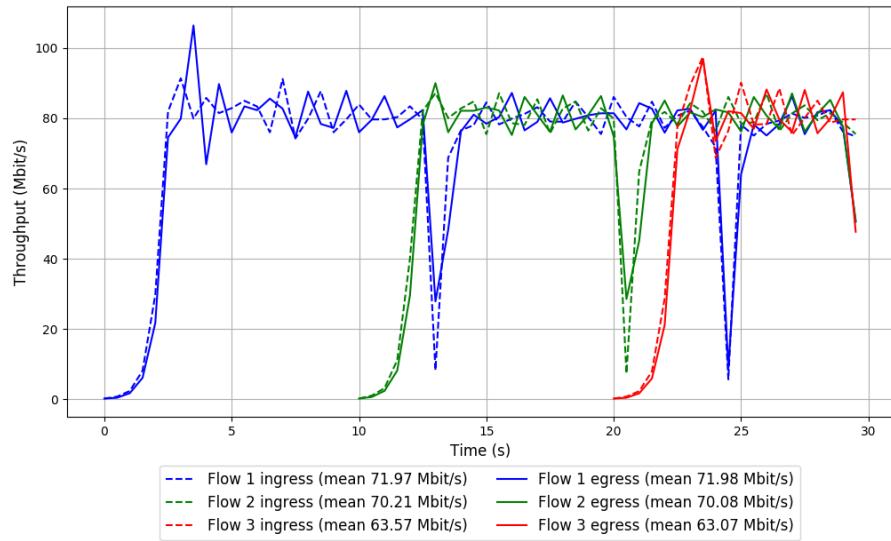
Run 10: Statistics of TCP BBR

Start at: 2018-01-18 04:52:41

End at: 2018-01-18 04:53:11

```
# Below is generated by plot.py at 2018-01-18 08:33:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 138.99 Mbit/s
95th percentile per-packet one-way delay: 121.823 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 71.98 Mbit/s
95th percentile per-packet one-way delay: 121.796 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 70.08 Mbit/s
95th percentile per-packet one-way delay: 121.806 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 63.07 Mbit/s
95th percentile per-packet one-way delay: 121.939 ms
Loss rate: 3.68%
```

## Run 10: Report of TCP BBR — Data Link

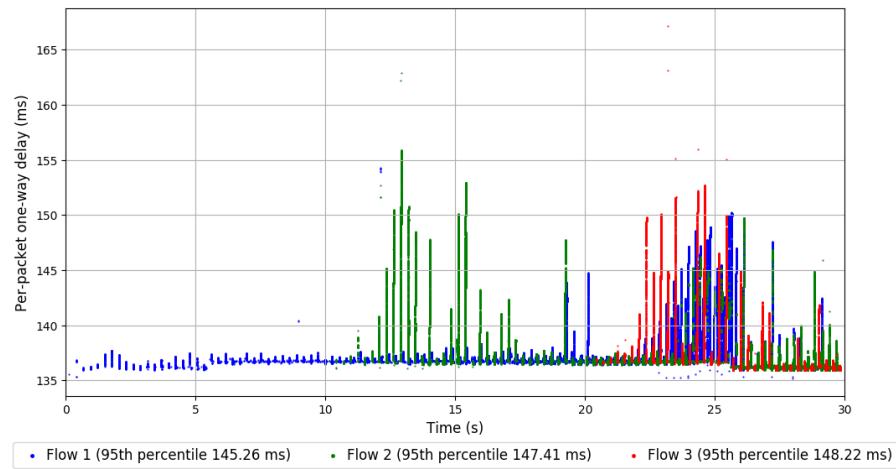
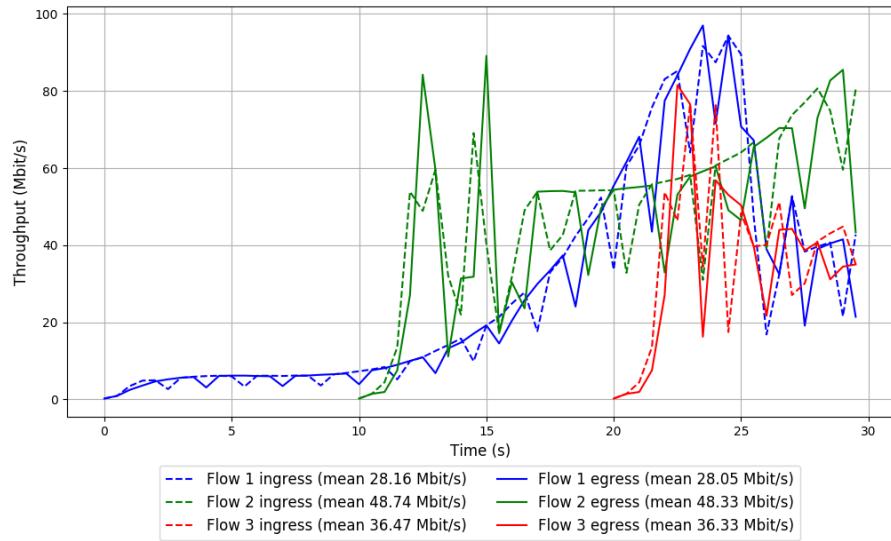


```
Run 1: Statistics of TCP Cubic

Start at: 2018-01-18 01:44:50
End at: 2018-01-18 01:45:20

# Below is generated by plot.py at 2018-01-18 08:33:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.87 Mbit/s
95th percentile per-packet one-way delay: 146.734 ms
Loss rate: 2.00%
-- Flow 1:
Average throughput: 28.05 Mbit/s
95th percentile per-packet one-way delay: 145.264 ms
Loss rate: 1.28%
-- Flow 2:
Average throughput: 48.33 Mbit/s
95th percentile per-packet one-way delay: 147.413 ms
Loss rate: 2.21%
-- Flow 3:
Average throughput: 36.33 Mbit/s
95th percentile per-packet one-way delay: 148.224 ms
Loss rate: 3.12%
```

## Run 1: Report of TCP Cubic — Data Link



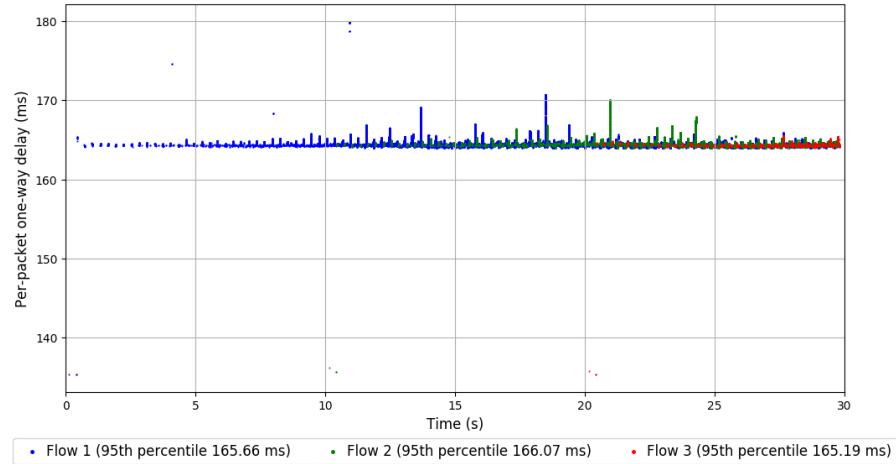
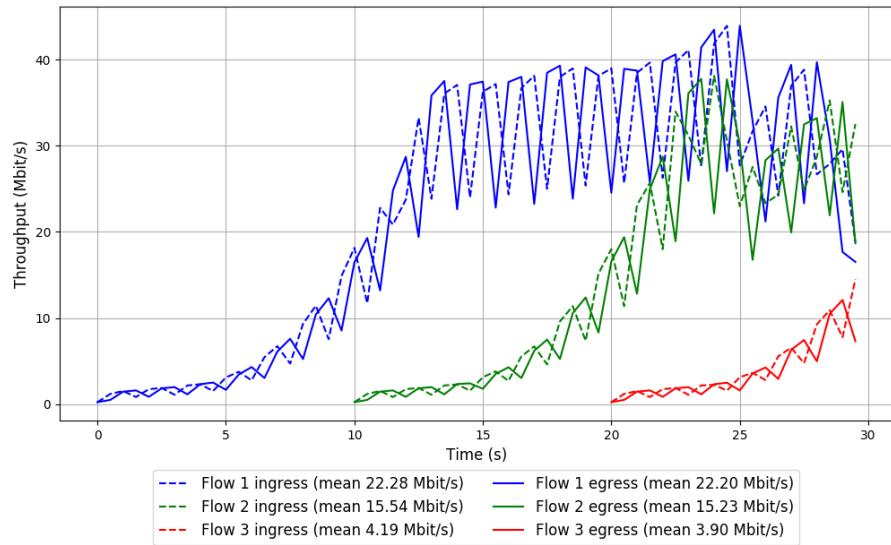
```
Run 2: Statistics of TCP Cubic
```

```
Start at: 2018-01-18 02:04:51
```

```
End at: 2018-01-18 02:05:21
```

```
# Below is generated by plot.py at 2018-01-18 08:33:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.55 Mbit/s
95th percentile per-packet one-way delay: 165.730 ms
Loss rate: 2.22%
-- Flow 1:
Average throughput: 22.20 Mbit/s
95th percentile per-packet one-way delay: 165.662 ms
Loss rate: 1.26%
-- Flow 2:
Average throughput: 15.23 Mbit/s
95th percentile per-packet one-way delay: 166.073 ms
Loss rate: 3.30%
-- Flow 3:
Average throughput: 3.90 Mbit/s
95th percentile per-packet one-way delay: 165.195 ms
Loss rate: 9.64%
```

## Run 2: Report of TCP Cubic — Data Link



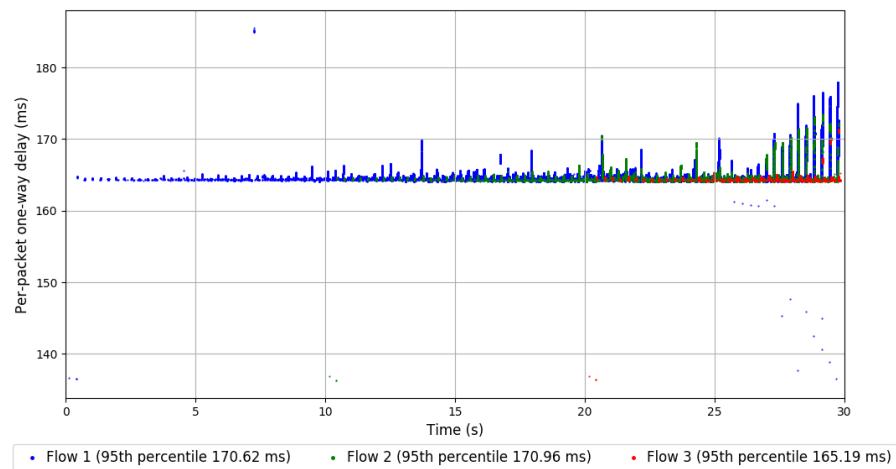
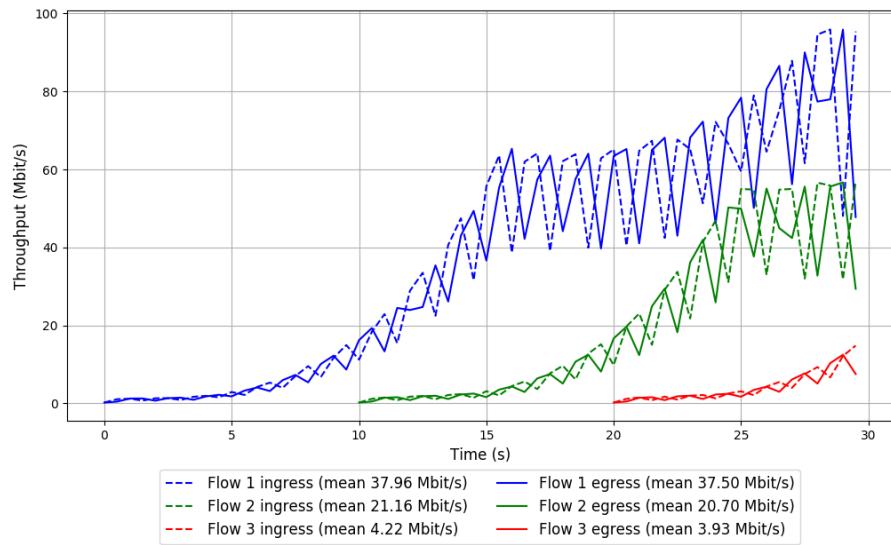
```
Run 3: Statistics of TCP Cubic
```

```
Start at: 2018-01-18 02:22:35
```

```
End at: 2018-01-18 02:23:05
```

```
# Below is generated by plot.py at 2018-01-18 08:33:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 52.40 Mbit/s
95th percentile per-packet one-way delay: 170.627 ms
Loss rate: 2.66%
-- Flow 1:
Average throughput: 37.50 Mbit/s
95th percentile per-packet one-way delay: 170.623 ms
Loss rate: 2.10%
-- Flow 2:
Average throughput: 20.70 Mbit/s
95th percentile per-packet one-way delay: 170.958 ms
Loss rate: 3.51%
-- Flow 3:
Average throughput: 3.93 Mbit/s
95th percentile per-packet one-way delay: 165.188 ms
Loss rate: 9.56%
```

### Run 3: Report of TCP Cubic — Data Link



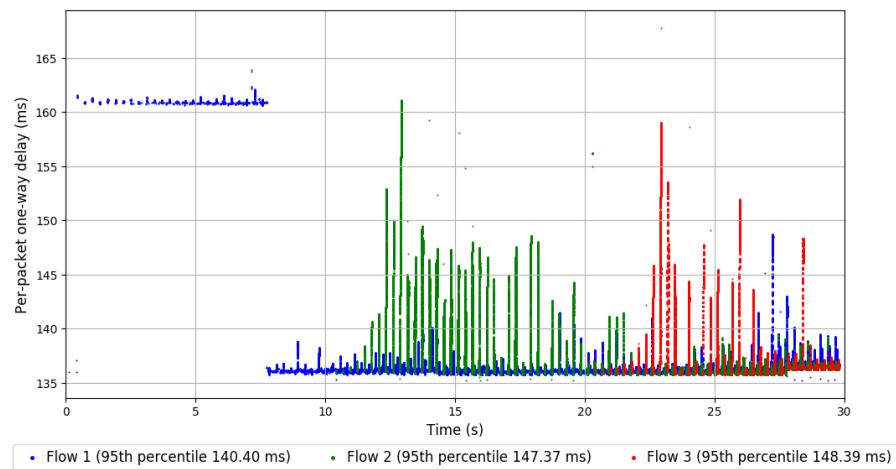
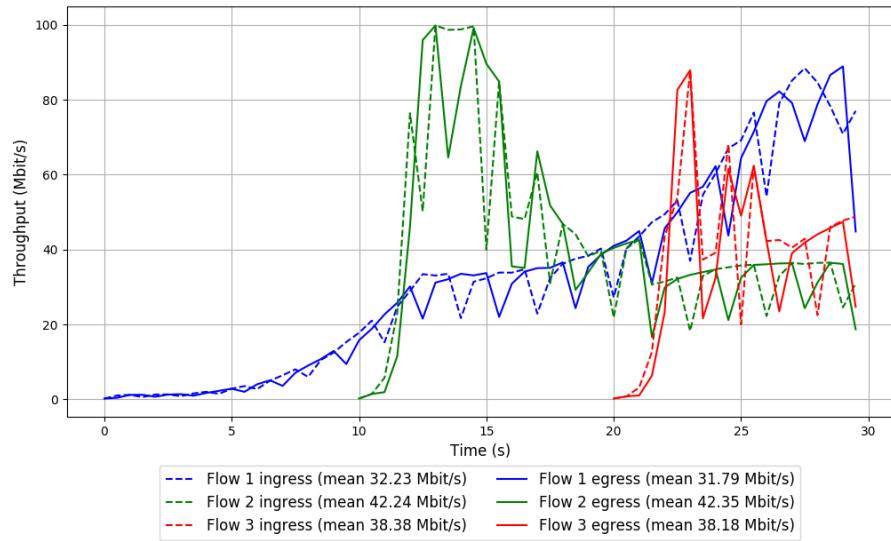
```
Run 4: Statistics of TCP Cubic
```

```
Start at: 2018-01-18 02:41:47
```

```
End at: 2018-01-18 02:42:17
```

```
# Below is generated by plot.py at 2018-01-18 08:33:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.28 Mbit/s
95th percentile per-packet one-way delay: 146.567 ms
Loss rate: 2.00%
-- Flow 1:
Average throughput: 31.79 Mbit/s
95th percentile per-packet one-way delay: 140.396 ms
Loss rate: 2.31%
-- Flow 2:
Average throughput: 42.35 Mbit/s
95th percentile per-packet one-way delay: 147.366 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 38.18 Mbit/s
95th percentile per-packet one-way delay: 148.388 ms
Loss rate: 3.25%
```

## Run 4: Report of TCP Cubic — Data Link



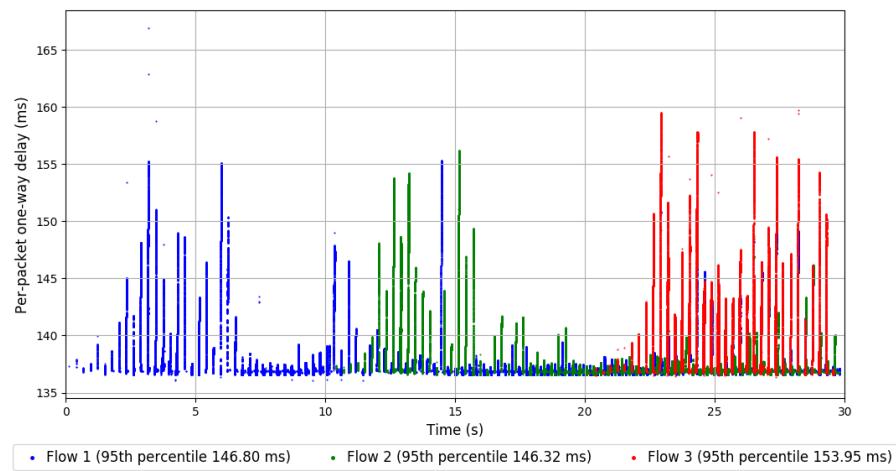
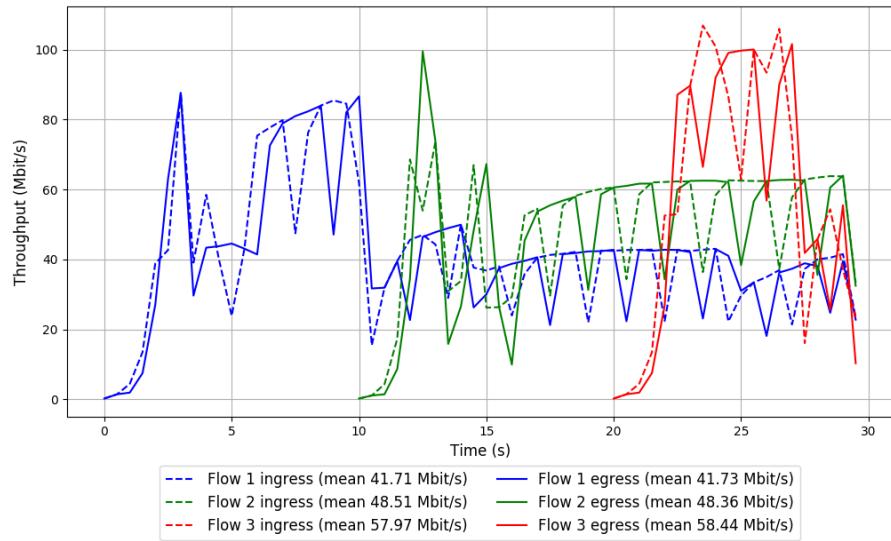
```
Run 5: Statistics of TCP Cubic
```

```
Start at: 2018-01-18 03:02:01
```

```
End at: 2018-01-18 03:02:31
```

```
# Below is generated by plot.py at 2018-01-18 08:33:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.29 Mbit/s
95th percentile per-packet one-way delay: 148.259 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 41.73 Mbit/s
95th percentile per-packet one-way delay: 146.798 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 48.36 Mbit/s
95th percentile per-packet one-way delay: 146.322 ms
Loss rate: 1.68%
-- Flow 3:
Average throughput: 58.44 Mbit/s
95th percentile per-packet one-way delay: 153.948 ms
Loss rate: 2.08%
```

### Run 5: Report of TCP Cubic — Data Link

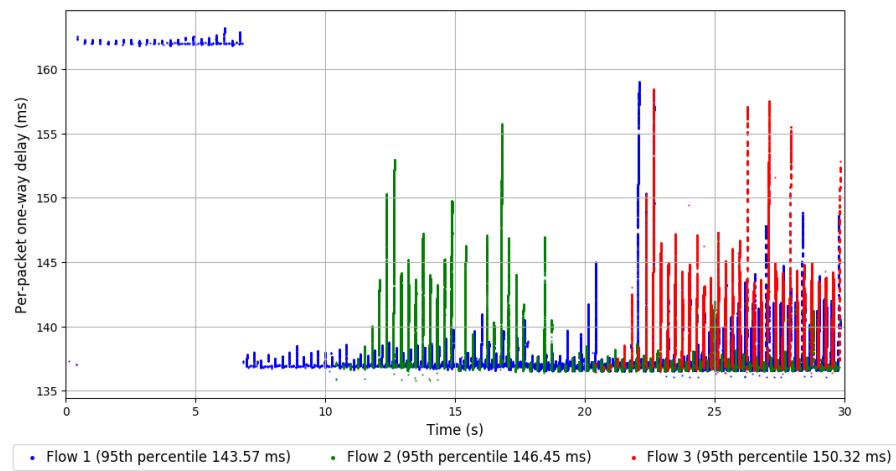
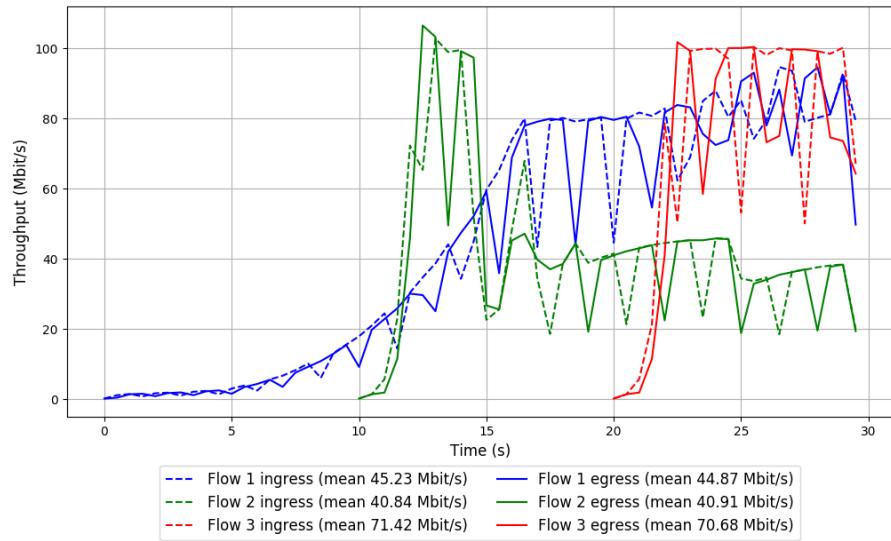


```
Run 6: Statistics of TCP Cubic

Start at: 2018-01-18 03:21:28
End at: 2018-01-18 03:21:58

# Below is generated by plot.py at 2018-01-18 08:33:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.00 Mbit/s
95th percentile per-packet one-way delay: 146.662 ms
Loss rate: 2.07%
-- Flow 1:
Average throughput: 44.87 Mbit/s
95th percentile per-packet one-way delay: 143.568 ms
Loss rate: 1.71%
-- Flow 2:
Average throughput: 40.91 Mbit/s
95th percentile per-packet one-way delay: 146.451 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 70.68 Mbit/s
95th percentile per-packet one-way delay: 150.317 ms
Loss rate: 3.74%
```

Run 6: Report of TCP Cubic — Data Link

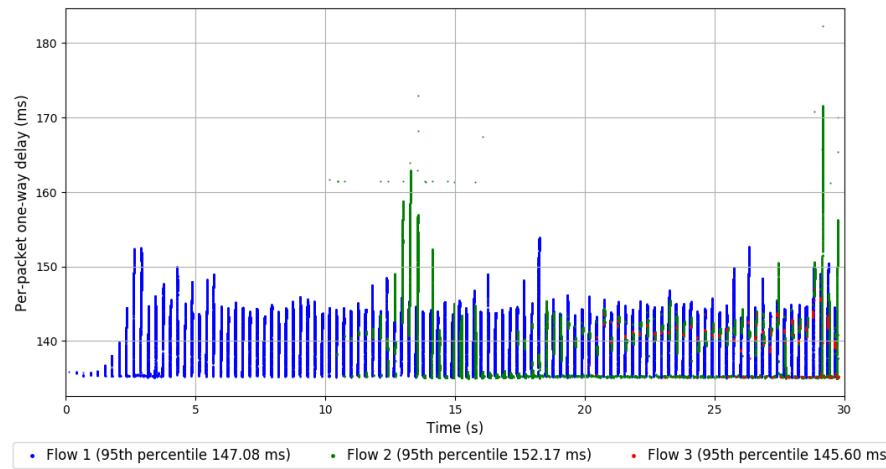
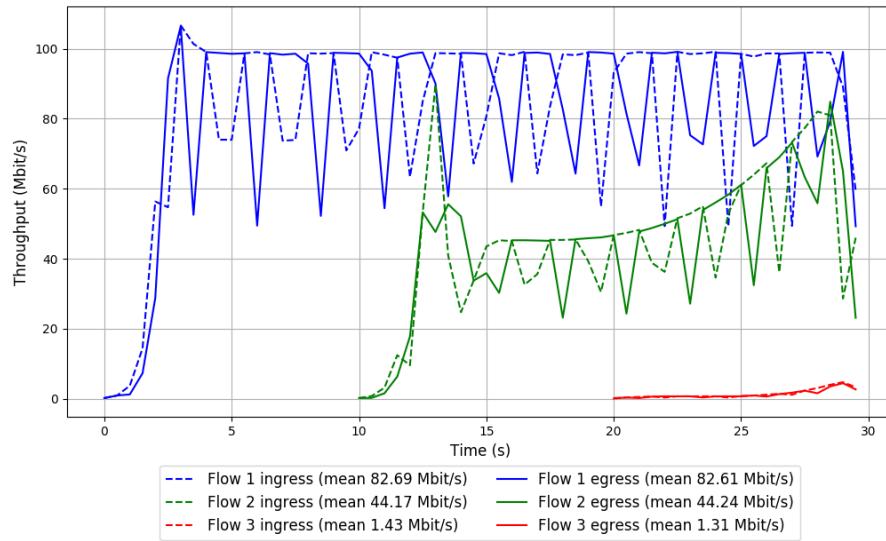


```
Run 7: Statistics of TCP Cubic

Start at: 2018-01-18 03:41:11
End at: 2018-01-18 03:41:41

# Below is generated by plot.py at 2018-01-18 08:33:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 111.95 Mbit/s
95th percentile per-packet one-way delay: 147.942 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 82.61 Mbit/s
95th percentile per-packet one-way delay: 147.079 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 44.24 Mbit/s
95th percentile per-packet one-way delay: 152.172 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 145.596 ms
Loss rate: 11.00%
```

### Run 7: Report of TCP Cubic — Data Link



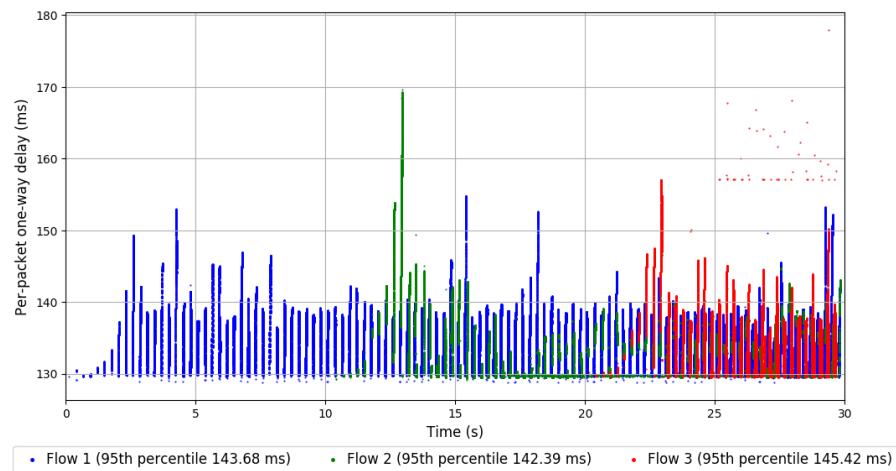
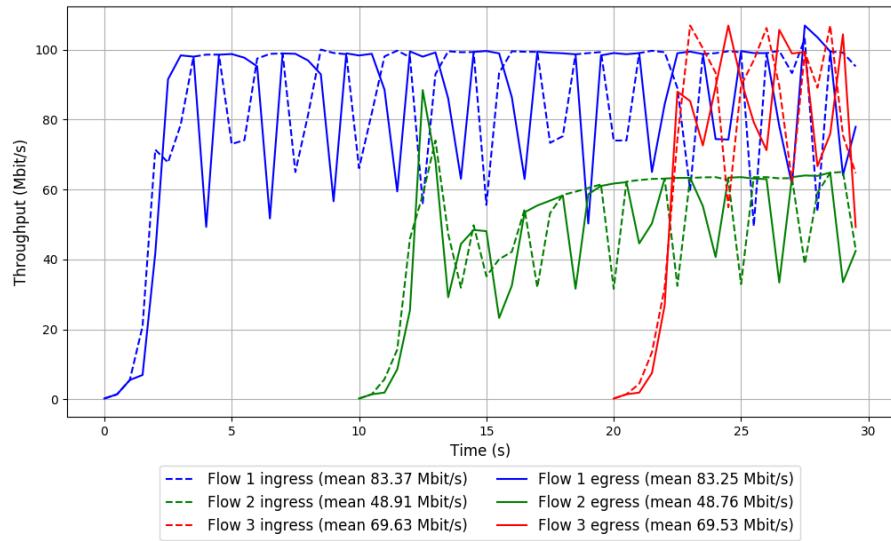
```
Run 8: Statistics of TCP Cubic
```

```
Start at: 2018-01-18 04:00:28
```

```
End at: 2018-01-18 04:00:58
```

```
# Below is generated by plot.py at 2018-01-18 08:34:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 137.83 Mbit/s
95th percentile per-packet one-way delay: 143.733 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 83.25 Mbit/s
95th percentile per-packet one-way delay: 143.679 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 48.76 Mbit/s
95th percentile per-packet one-way delay: 142.390 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 69.53 Mbit/s
95th percentile per-packet one-way delay: 145.420 ms
Loss rate: 2.93%
```

Run 8: Report of TCP Cubic — Data Link



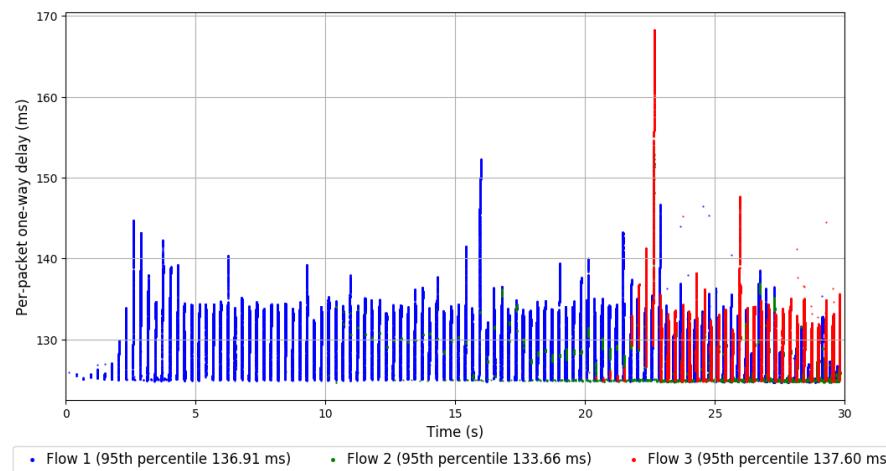
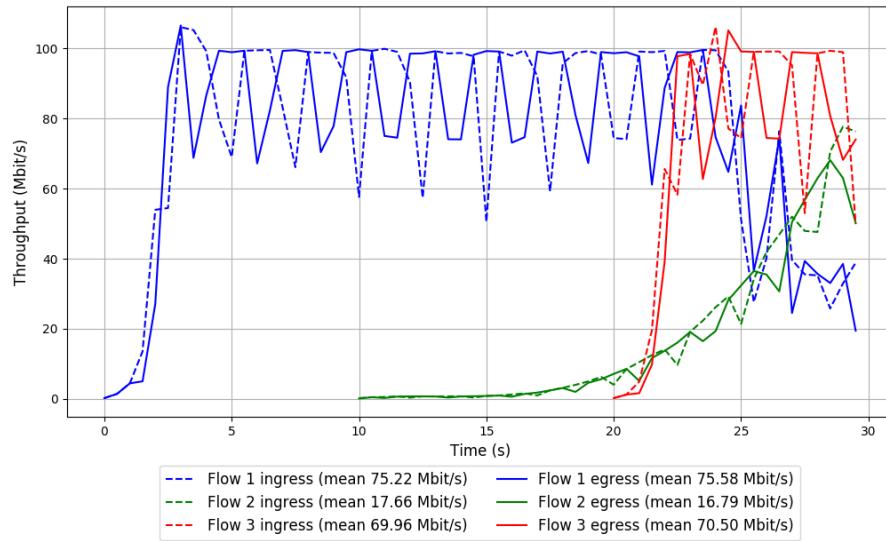
Run 9: Statistics of TCP Cubic

Start at: 2018-01-18 04:20:45

End at: 2018-01-18 04:21:15

```
# Below is generated by plot.py at 2018-01-18 08:34:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 109.56 Mbit/s
95th percentile per-packet one-way delay: 136.693 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 75.58 Mbit/s
95th percentile per-packet one-way delay: 136.911 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 16.79 Mbit/s
95th percentile per-packet one-way delay: 133.664 ms
Loss rate: 6.24%
-- Flow 3:
Average throughput: 70.50 Mbit/s
95th percentile per-packet one-way delay: 137.602 ms
Loss rate: 1.81%
```

### Run 9: Report of TCP Cubic — Data Link



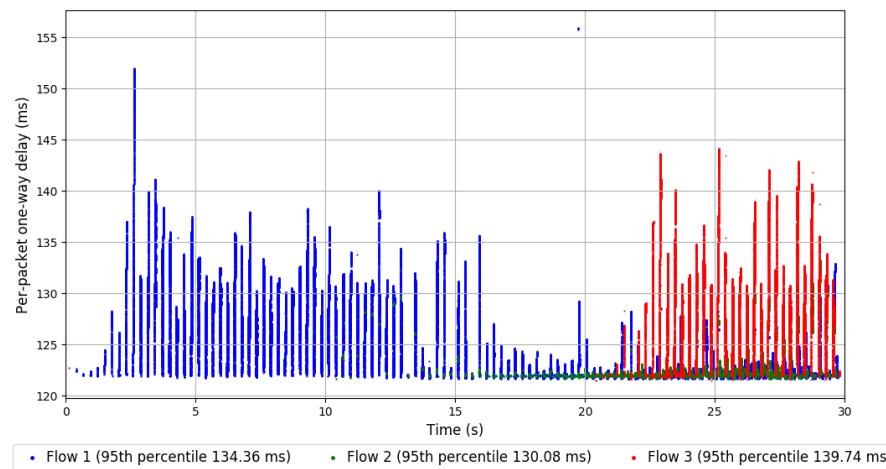
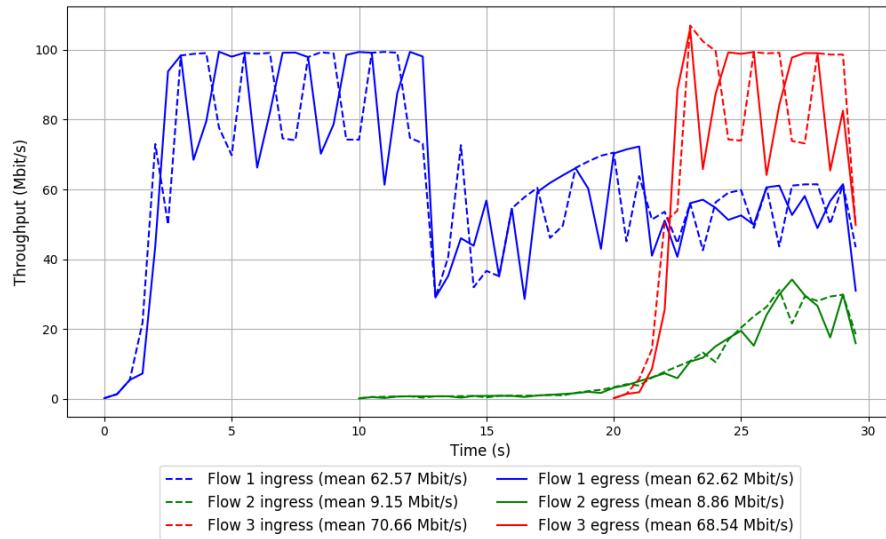
```
Run 10: Statistics of TCP Cubic
```

```
Start at: 2018-01-18 04:40:34
```

```
End at: 2018-01-18 04:41:04
```

```
# Below is generated by plot.py at 2018-01-18 08:34:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.72 Mbit/s
95th percentile per-packet one-way delay: 136.512 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 62.62 Mbit/s
95th percentile per-packet one-way delay: 134.356 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 8.86 Mbit/s
95th percentile per-packet one-way delay: 130.077 ms
Loss rate: 4.51%
-- Flow 3:
Average throughput: 68.54 Mbit/s
95th percentile per-packet one-way delay: 139.740 ms
Loss rate: 3.56%
```

## Run 10: Report of TCP Cubic — Data Link

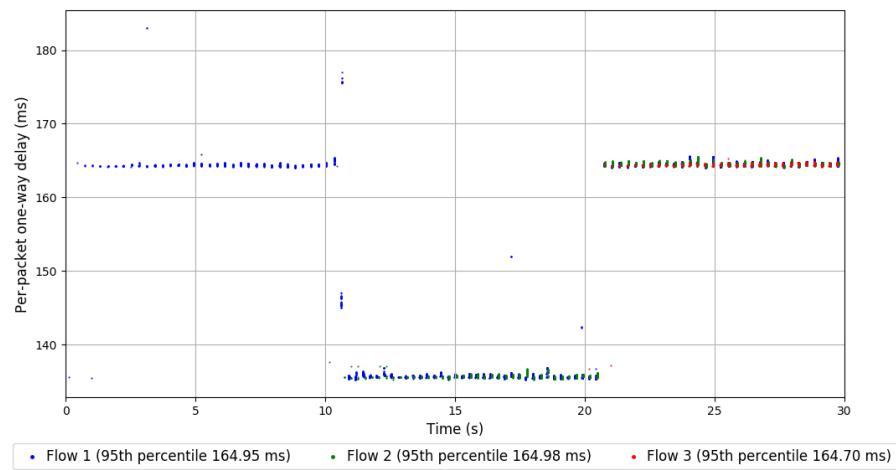
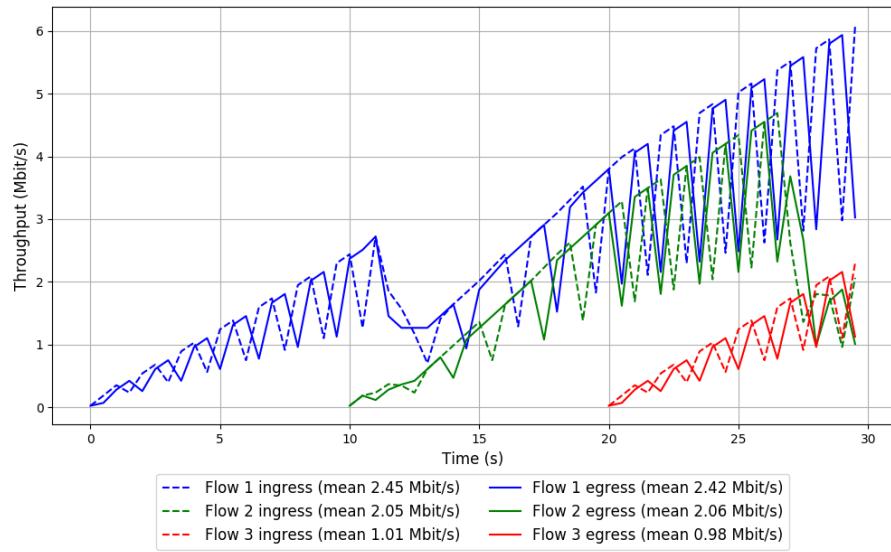


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-18 01:56:25
End at: 2018-01-18 01:56:55

# Below is generated by plot.py at 2018-01-18 08:34:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 164.948 ms
Loss rate: 2.13%
-- Flow 1:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 164.946 ms
Loss rate: 2.09%
-- Flow 2:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 164.983 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 164.704 ms
Loss rate: 5.88%
```

Run 1: Report of LEDBAT — Data Link



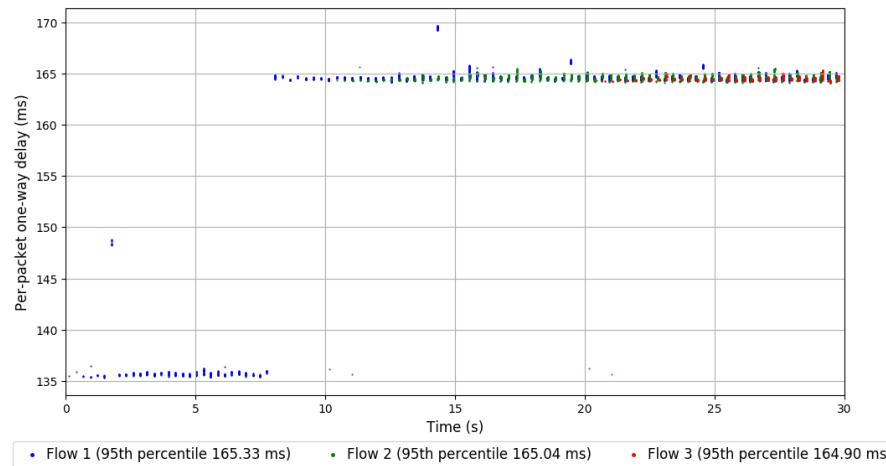
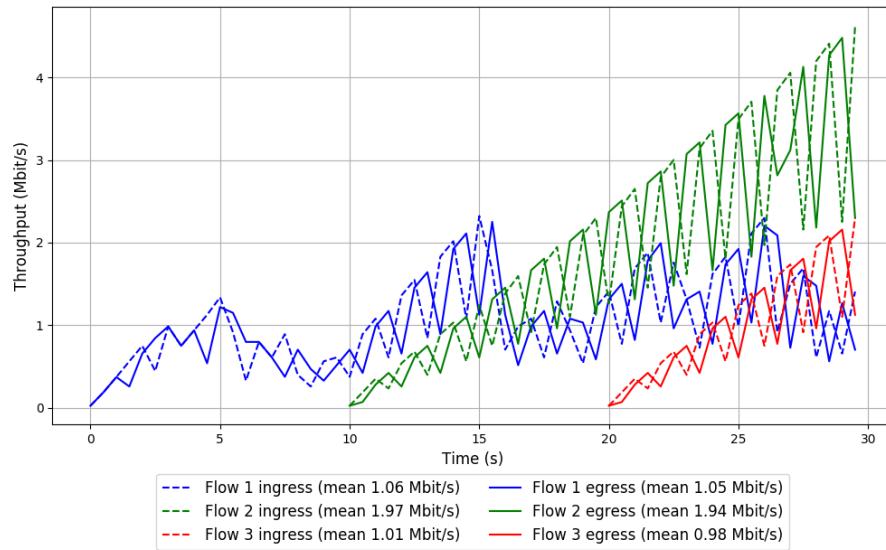
Run 2: Statistics of LEDBAT

Start at: 2018-01-18 02:14:27

End at: 2018-01-18 02:14:57

```
# Below is generated by plot.py at 2018-01-18 08:34:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.65 Mbit/s
95th percentile per-packet one-way delay: 165.084 ms
Loss rate: 2.79%
-- Flow 1:
Average throughput: 1.05 Mbit/s
95th percentile per-packet one-way delay: 165.331 ms
Loss rate: 1.60%
-- Flow 2:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 165.041 ms
Loss rate: 2.97%
-- Flow 3:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 164.896 ms
Loss rate: 5.88%
```

## Run 2: Report of LEDBAT — Data Link



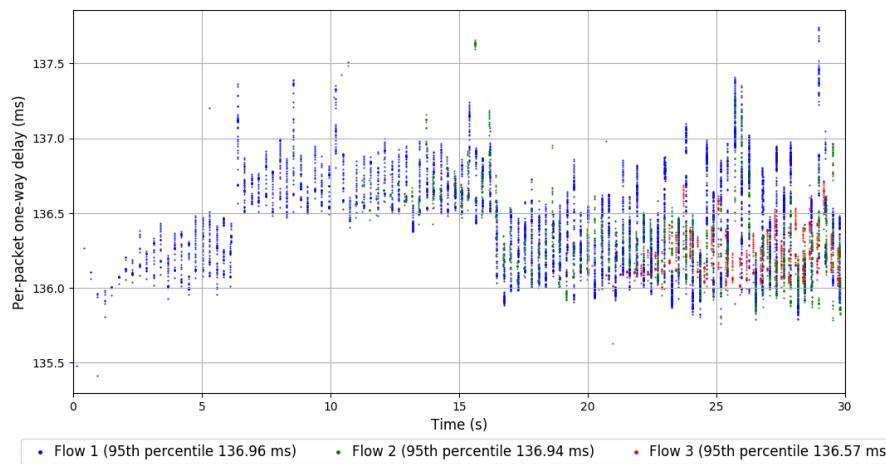
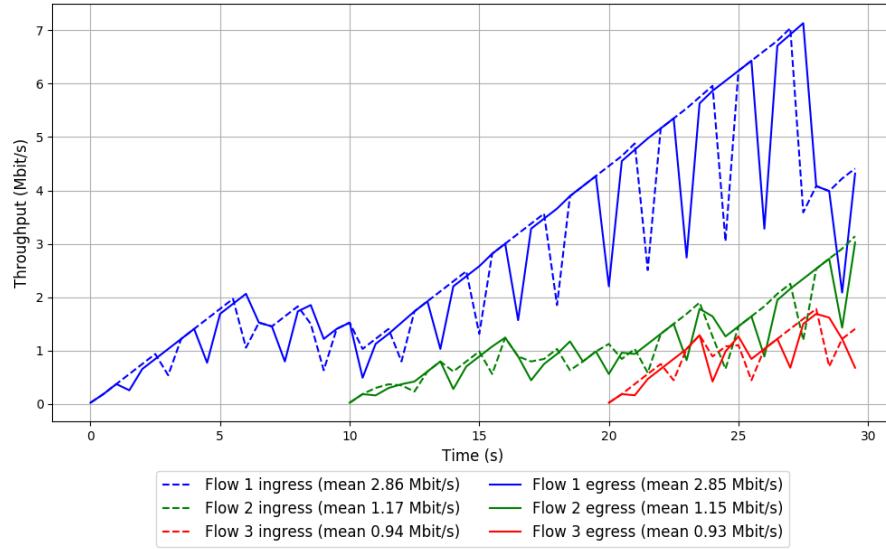
Run 3: Statistics of LEDBAT

Start at: 2018-01-18 02:32:59

End at: 2018-01-18 02:33:29

```
# Below is generated by plot.py at 2018-01-18 08:34:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 136.943 ms
Loss rate: 1.93%
-- Flow 1:
Average throughput: 2.85 Mbit/s
95th percentile per-packet one-way delay: 136.959 ms
Loss rate: 1.30%
-- Flow 2:
Average throughput: 1.15 Mbit/s
95th percentile per-packet one-way delay: 136.938 ms
Loss rate: 3.41%
-- Flow 3:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 136.568 ms
Loss rate: 3.92%
```

Run 3: Report of LEDBAT — Data Link



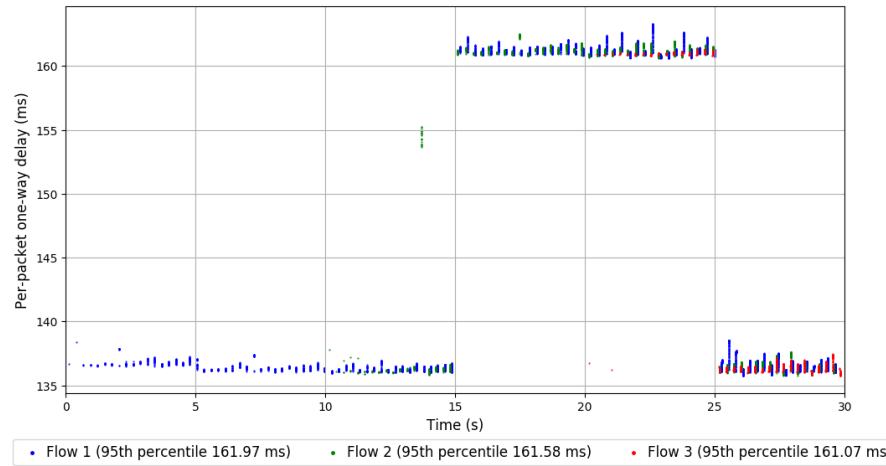
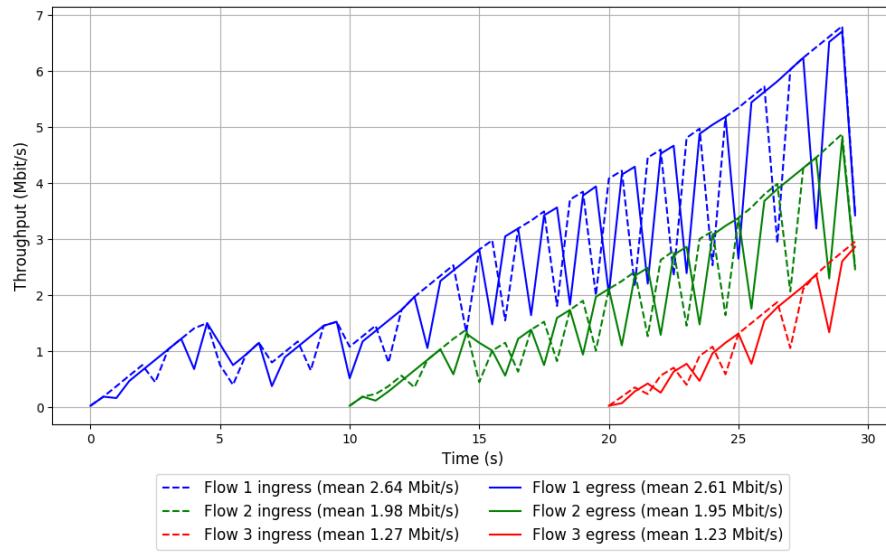
Run 4: Statistics of LEDBAT

Start at: 2018-01-18 02:53:20

End at: 2018-01-18 02:53:50

```
# Below is generated by plot.py at 2018-01-18 08:34:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.26 Mbit/s
95th percentile per-packet one-way delay: 161.772 ms
Loss rate: 2.87%
-- Flow 1:
Average throughput: 2.61 Mbit/s
95th percentile per-packet one-way delay: 161.974 ms
Loss rate: 2.21%
-- Flow 2:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 161.576 ms
Loss rate: 3.21%
-- Flow 3:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 161.067 ms
Loss rate: 5.94%
```

## Run 4: Report of LEDBAT — Data Link



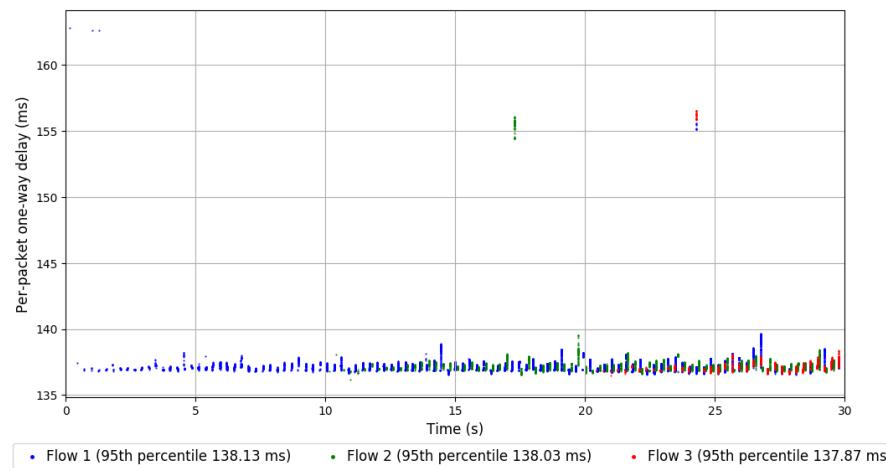
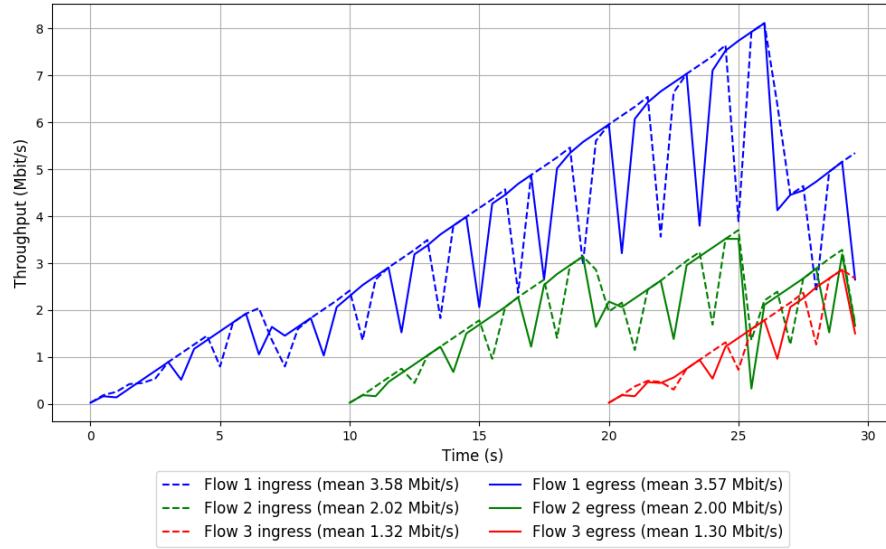
Run 5: Statistics of LEDBAT

Start at: 2018-01-18 03:12:45

End at: 2018-01-18 03:13:15

```
# Below is generated by plot.py at 2018-01-18 08:34:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.30 Mbit/s
95th percentile per-packet one-way delay: 138.089 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 3.57 Mbit/s
95th percentile per-packet one-way delay: 138.131 ms
Loss rate: 1.26%
-- Flow 2:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 138.027 ms
Loss rate: 2.39%
-- Flow 3:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 137.872 ms
Loss rate: 4.50%
```

Run 5: Report of LEDBAT — Data Link



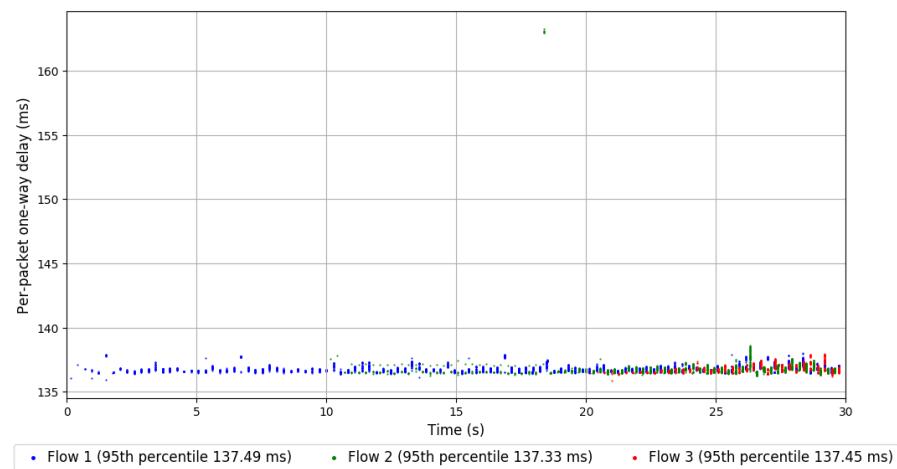
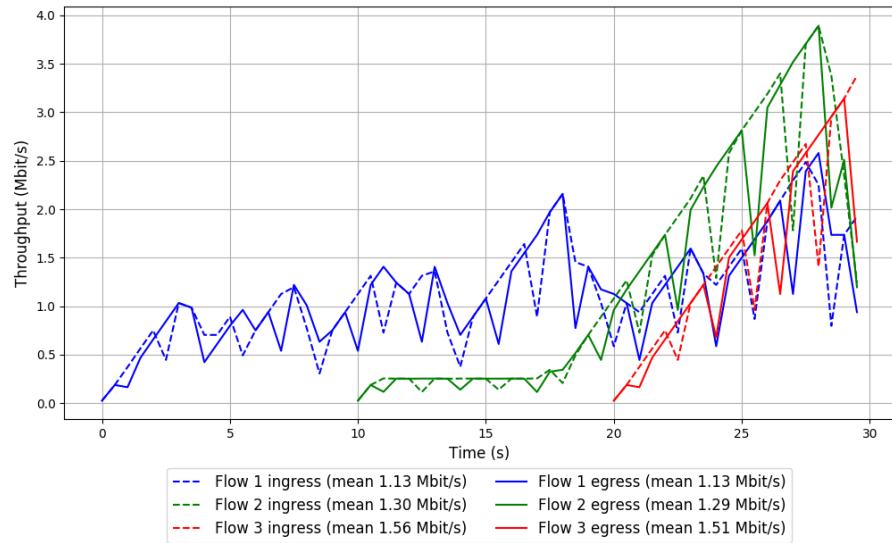
Run 6: Statistics of LEDBAT

Start at: 2018-01-18 03:32:31

End at: 2018-01-18 03:33:01

```
# Below is generated by plot.py at 2018-01-18 08:34:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.46 Mbit/s
95th percentile per-packet one-way delay: 137.446 ms
Loss rate: 2.63%
-- Flow 1:
Average throughput: 1.13 Mbit/s
95th percentile per-packet one-way delay: 137.490 ms
Loss rate: 1.46%
-- Flow 2:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 137.326 ms
Loss rate: 2.43%
-- Flow 3:
Average throughput: 1.51 Mbit/s
95th percentile per-packet one-way delay: 137.448 ms
Loss rate: 5.57%
```

## Run 6: Report of LEDBAT — Data Link



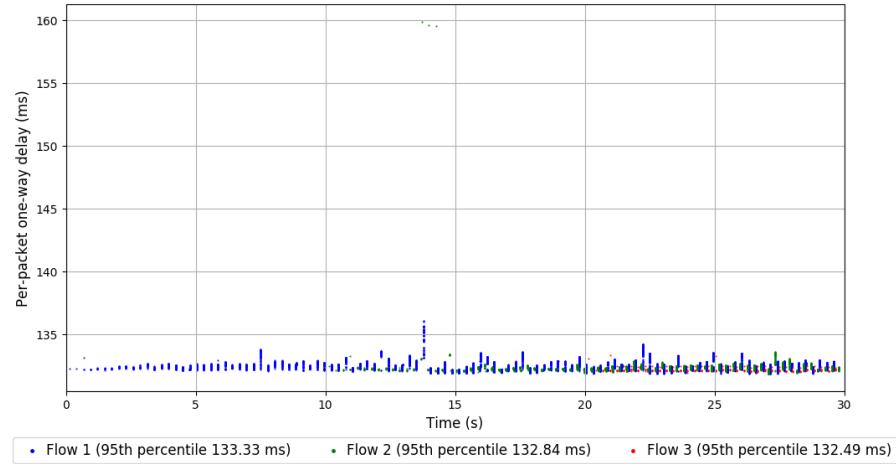
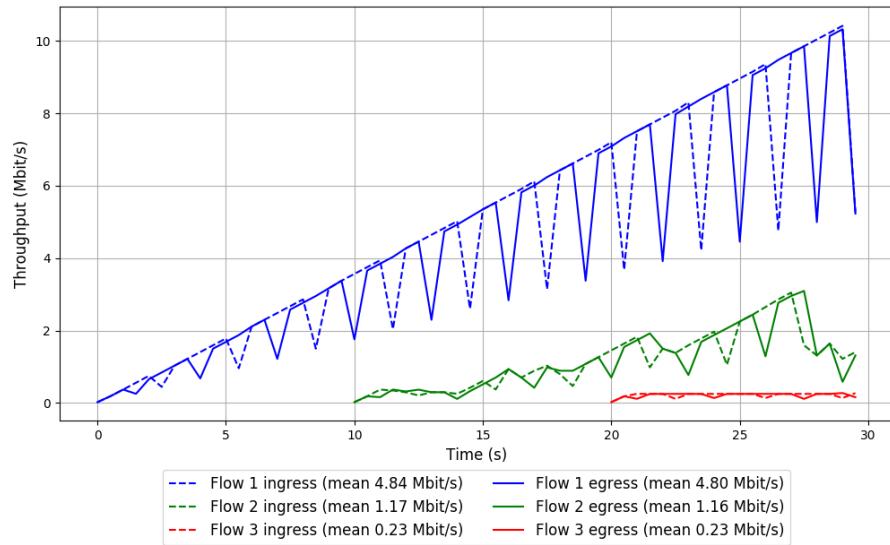
Run 7: Statistics of LEDBAT

Start at: 2018-01-18 03:51:39

End at: 2018-01-18 03:52:09

```
# Below is generated by plot.py at 2018-01-18 08:34:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.61 Mbit/s
95th percentile per-packet one-way delay: 133.287 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 4.80 Mbit/s
95th percentile per-packet one-way delay: 133.330 ms
Loss rate: 1.83%
-- Flow 2:
Average throughput: 1.16 Mbit/s
95th percentile per-packet one-way delay: 132.845 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 132.485 ms
Loss rate: 2.58%
```

## Run 7: Report of LEDBAT — Data Link



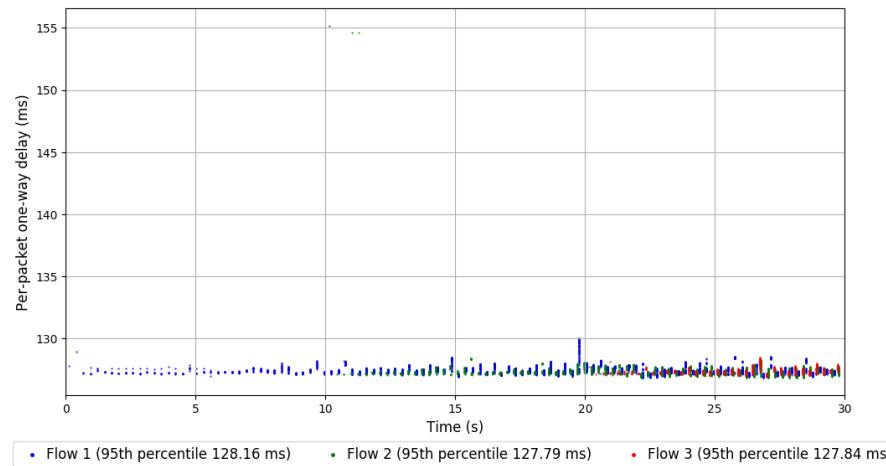
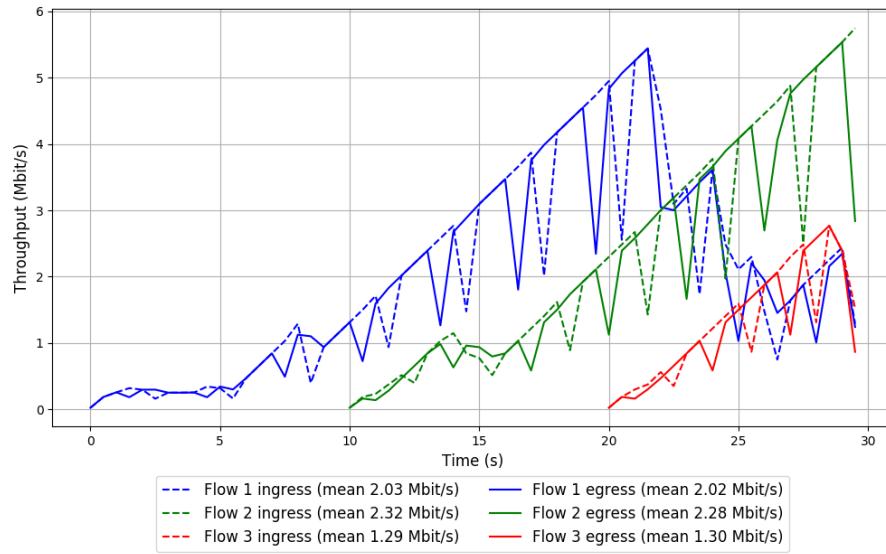
Run 8: Statistics of LEDBAT

Start at: 2018-01-18 04:11:50

End at: 2018-01-18 04:12:20

```
# Below is generated by plot.py at 2018-01-18 08:34:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.94 Mbit/s
95th percentile per-packet one-way delay: 128.003 ms
Loss rate: 2.21%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 128.158 ms
Loss rate: 1.42%
-- Flow 2:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 127.793 ms
Loss rate: 3.15%
-- Flow 3:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 127.836 ms
Loss rate: 2.58%
```

Run 8: Report of LEDBAT — Data Link



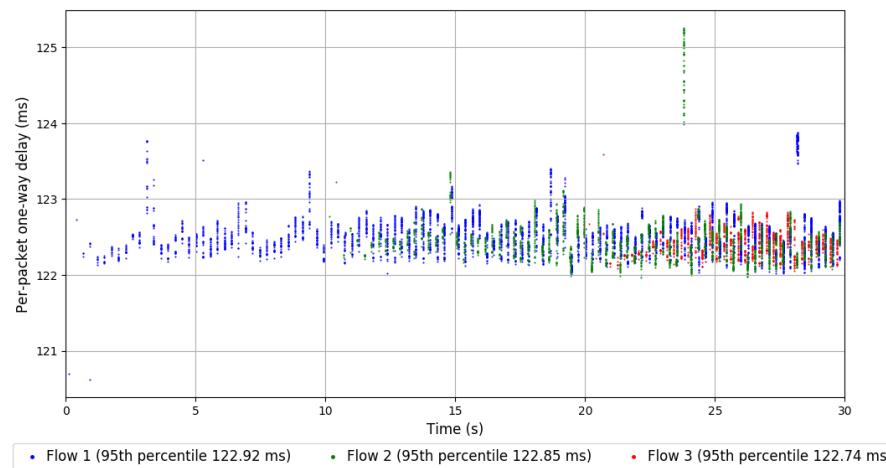
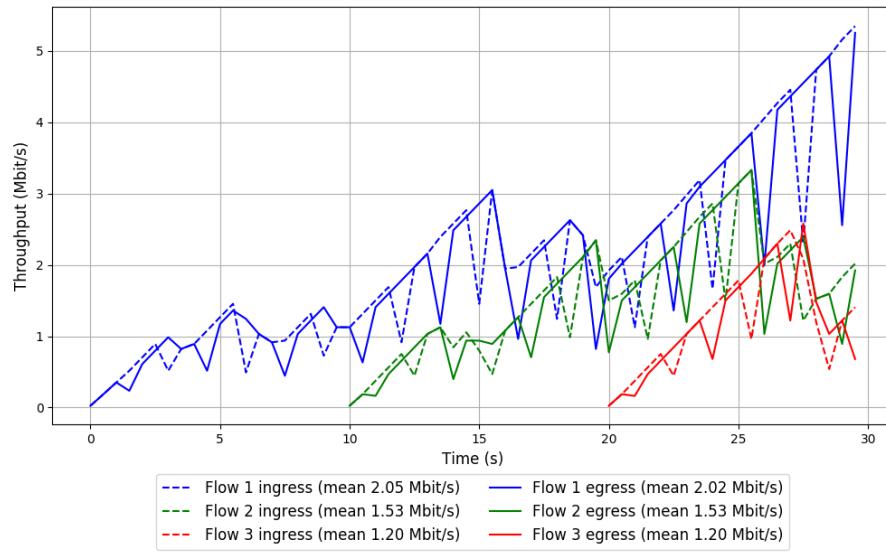
Run 9: Statistics of LEDBAT

Start at: 2018-01-18 04:32:06

End at: 2018-01-18 04:32:36

```
# Below is generated by plot.py at 2018-01-18 08:34:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.42 Mbit/s
95th percentile per-packet one-way delay: 122.874 ms
Loss rate: 2.15%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 122.924 ms
Loss rate: 2.20%
-- Flow 2:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 122.850 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 122.740 ms
Loss rate: 3.07%
```

Run 9: Report of LEDBAT — Data Link



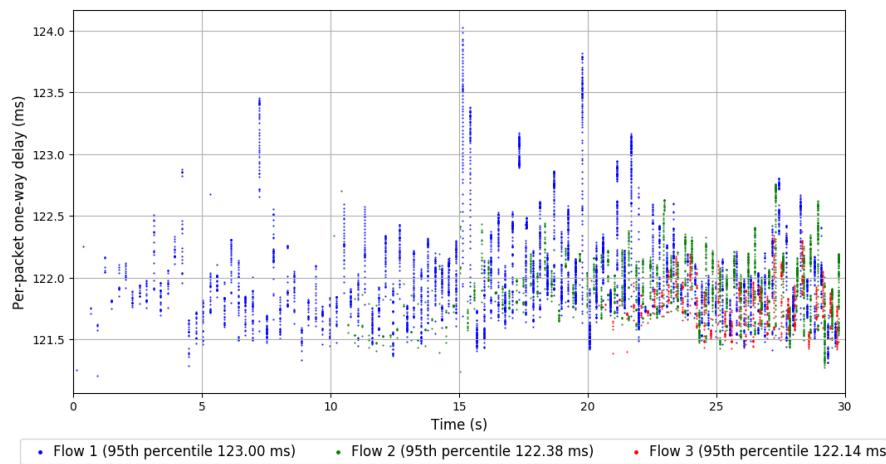
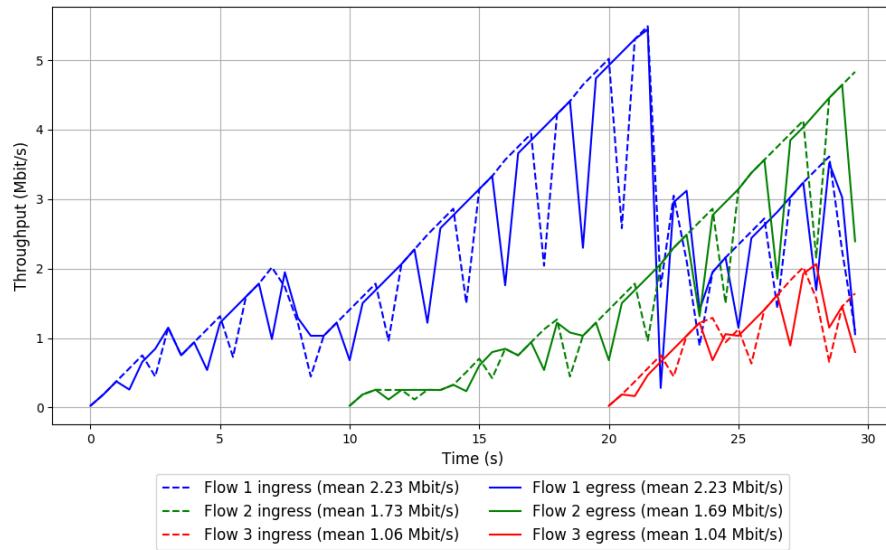
Run 10: Statistics of LEDBAT

Start at: 2018-01-18 04:51:51

End at: 2018-01-18 04:52:21

```
# Below is generated by plot.py at 2018-01-18 08:34:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.68 Mbit/s
95th percentile per-packet one-way delay: 122.757 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 123.002 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 1.69 Mbit/s
95th percentile per-packet one-way delay: 122.378 ms
Loss rate: 3.55%
-- Flow 3:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 122.139 ms
Loss rate: 4.29%
```

## Run 10: Report of LEDBAT — Data Link

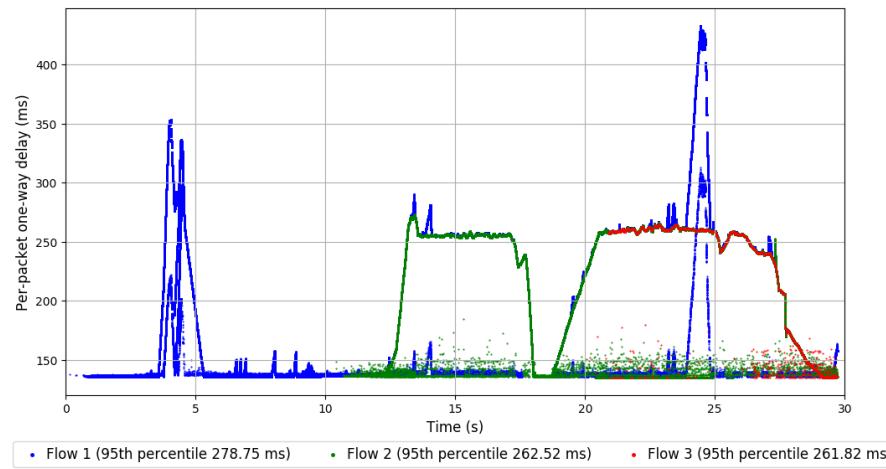
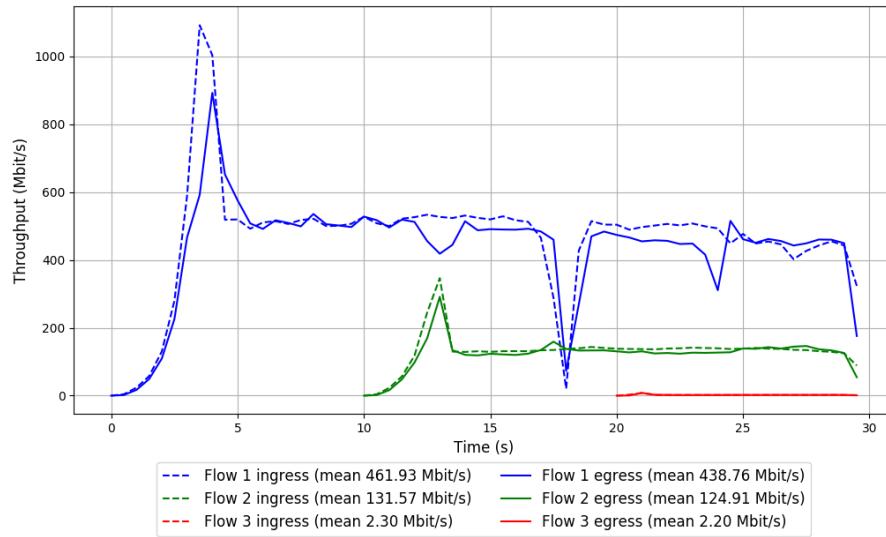


```
Run 1: Statistics of PCC

Start at: 2018-01-18 01:46:55
End at: 2018-01-18 01:47:25

# Below is generated by plot.py at 2018-01-18 08:42:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 522.10 Mbit/s
95th percentile per-packet one-way delay: 271.933 ms
Loss rate: 5.97%
-- Flow 1:
Average throughput: 438.76 Mbit/s
95th percentile per-packet one-way delay: 278.751 ms
Loss rate: 5.89%
-- Flow 2:
Average throughput: 124.91 Mbit/s
95th percentile per-packet one-way delay: 262.519 ms
Loss rate: 6.38%
-- Flow 3:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 261.823 ms
Loss rate: 7.15%
```

## Run 1: Report of PCC — Data Link



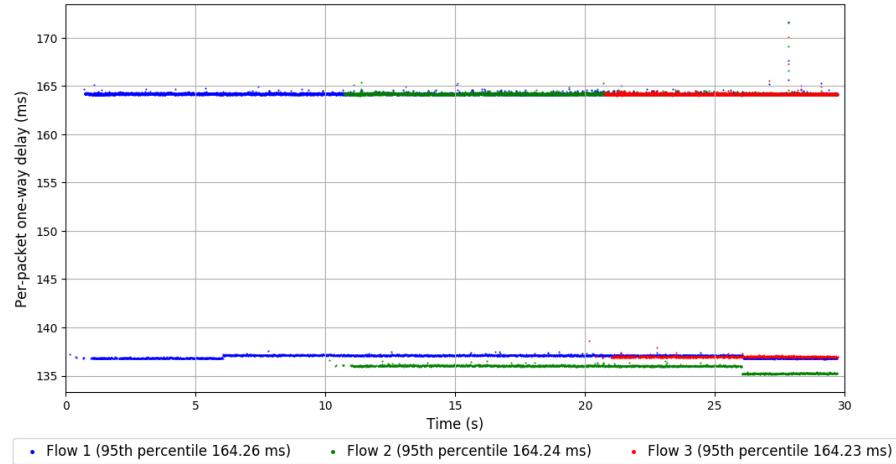
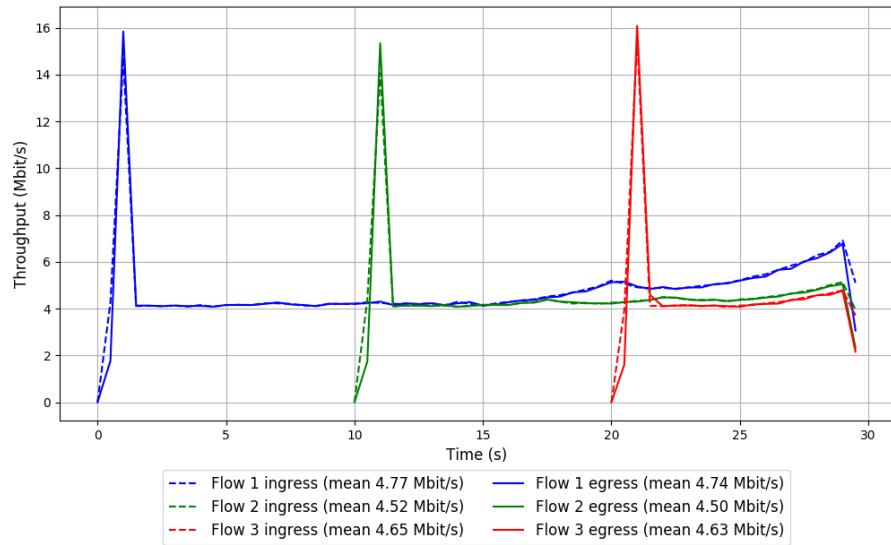
Run 2: Statistics of PCC

Start at: 2018-01-18 02:06:49

End at: 2018-01-18 02:07:19

```
# Below is generated by plot.py at 2018-01-18 08:42:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.22 Mbit/s
95th percentile per-packet one-way delay: 164.248 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 4.74 Mbit/s
95th percentile per-packet one-way delay: 164.256 ms
Loss rate: 1.51%
-- Flow 2:
Average throughput: 4.50 Mbit/s
95th percentile per-packet one-way delay: 164.242 ms
Loss rate: 1.87%
-- Flow 3:
Average throughput: 4.63 Mbit/s
95th percentile per-packet one-way delay: 164.229 ms
Loss rate: 3.40%
```

## Run 2: Report of PCC — Data Link



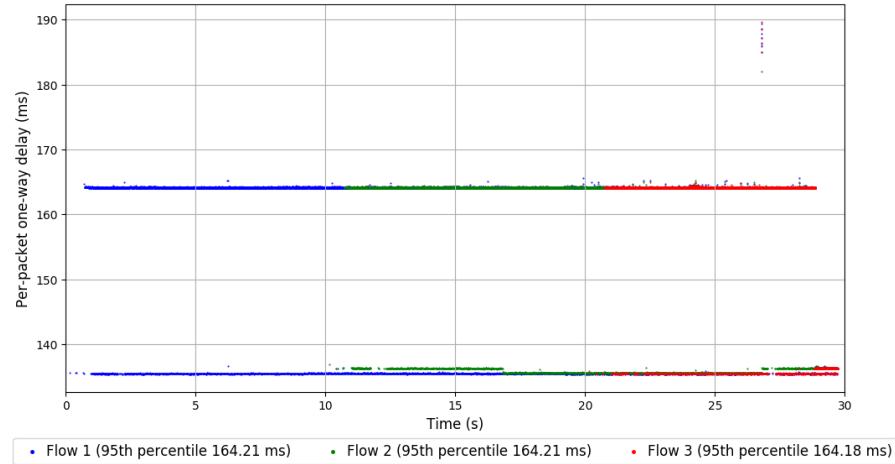
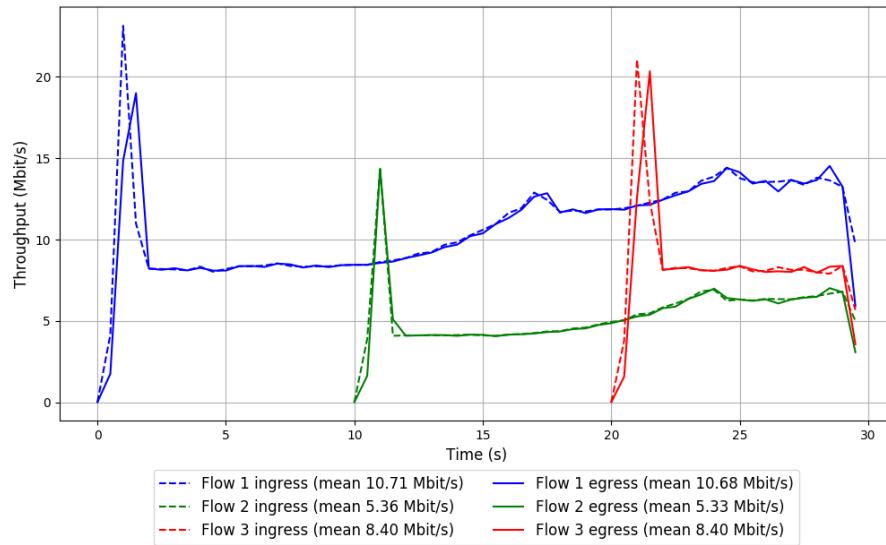
Run 3: Statistics of PCC

Start at: 2018-01-18 02:24:46

End at: 2018-01-18 02:25:16

```
# Below is generated by plot.py at 2018-01-18 08:42:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.92 Mbit/s
95th percentile per-packet one-way delay: 164.209 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 10.68 Mbit/s
95th percentile per-packet one-way delay: 164.213 ms
Loss rate: 1.24%
-- Flow 2:
Average throughput: 5.33 Mbit/s
95th percentile per-packet one-way delay: 164.208 ms
Loss rate: 1.92%
-- Flow 3:
Average throughput: 8.40 Mbit/s
95th percentile per-packet one-way delay: 164.184 ms
Loss rate: 2.79%
```

### Run 3: Report of PCC — Data Link



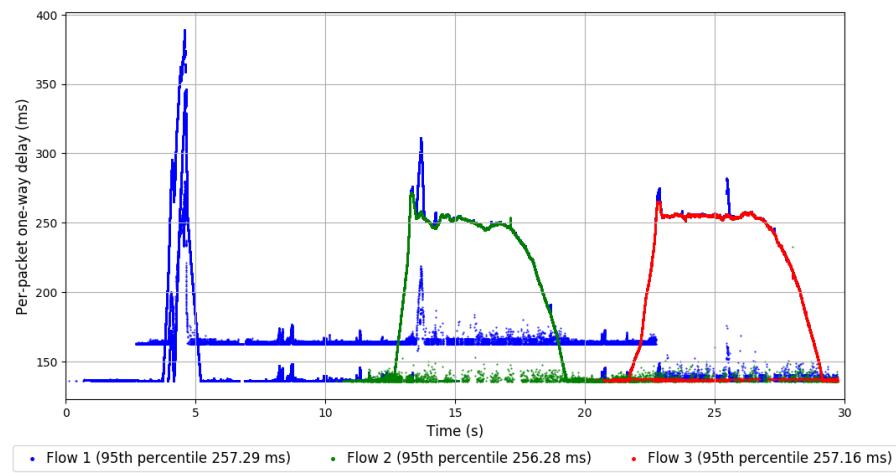
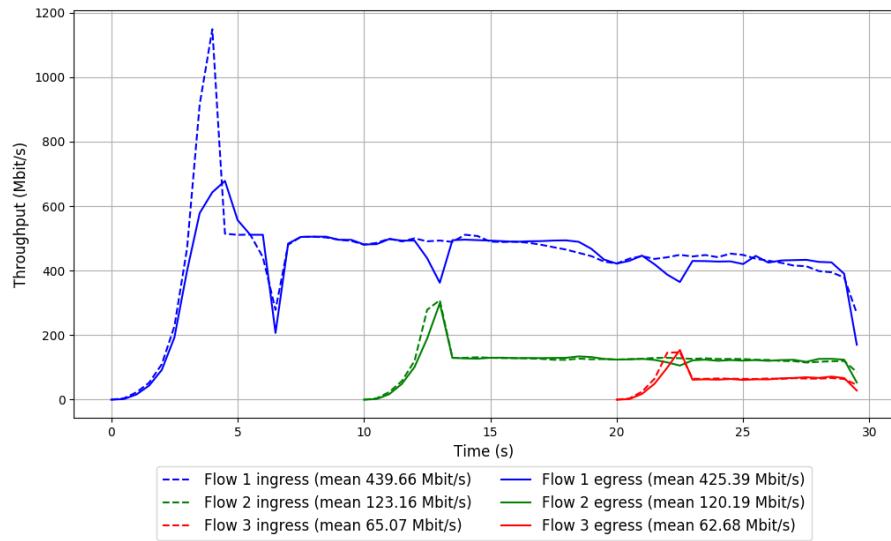
Run 4: Statistics of PCC

Start at: 2018-01-18 02:43:52

End at: 2018-01-18 02:44:22

```
# Below is generated by plot.py at 2018-01-18 08:42:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 525.11 Mbit/s
95th percentile per-packet one-way delay: 257.075 ms
Loss rate: 4.16%
-- Flow 1:
Average throughput: 425.39 Mbit/s
95th percentile per-packet one-way delay: 257.290 ms
Loss rate: 4.13%
-- Flow 2:
Average throughput: 120.19 Mbit/s
95th percentile per-packet one-way delay: 256.279 ms
Loss rate: 3.75%
-- Flow 3:
Average throughput: 62.68 Mbit/s
95th percentile per-packet one-way delay: 257.161 ms
Loss rate: 6.34%
```

## Run 4: Report of PCC — Data Link



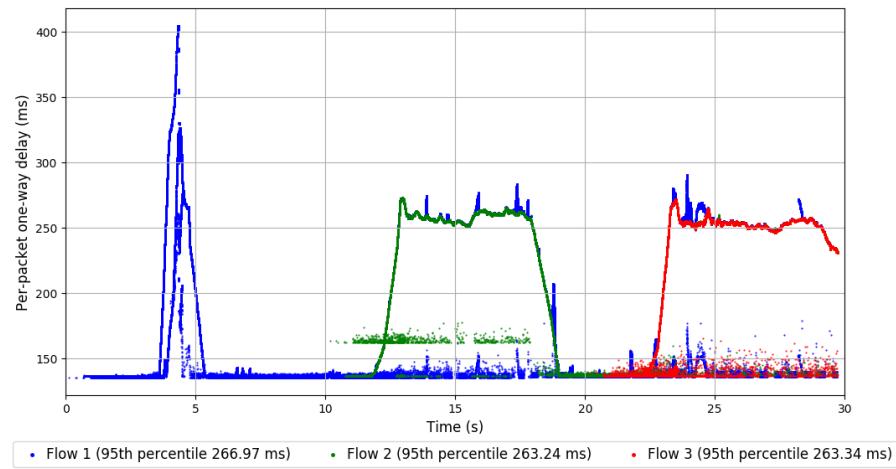
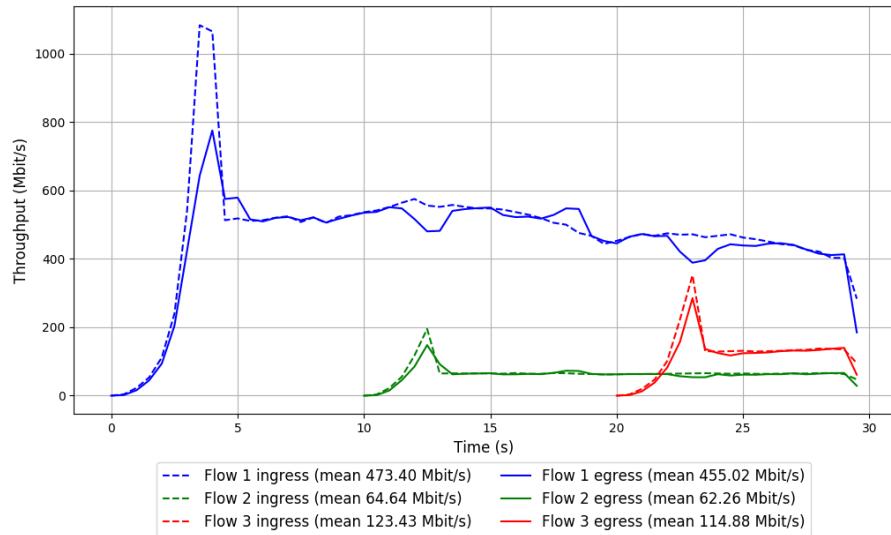
Run 5: Statistics of PCC

Start at: 2018-01-18 03:04:07

End at: 2018-01-18 03:04:37

```
# Below is generated by plot.py at 2018-01-18 08:42:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 533.27 Mbit/s
95th percentile per-packet one-way delay: 266.327 ms
Loss rate: 5.14%
-- Flow 1:
Average throughput: 455.02 Mbit/s
95th percentile per-packet one-way delay: 266.974 ms
Loss rate: 4.76%
-- Flow 2:
Average throughput: 62.26 Mbit/s
95th percentile per-packet one-way delay: 263.238 ms
Loss rate: 5.13%
-- Flow 3:
Average throughput: 114.88 Mbit/s
95th percentile per-packet one-way delay: 263.338 ms
Loss rate: 9.54%
```

## Run 5: Report of PCC — Data Link

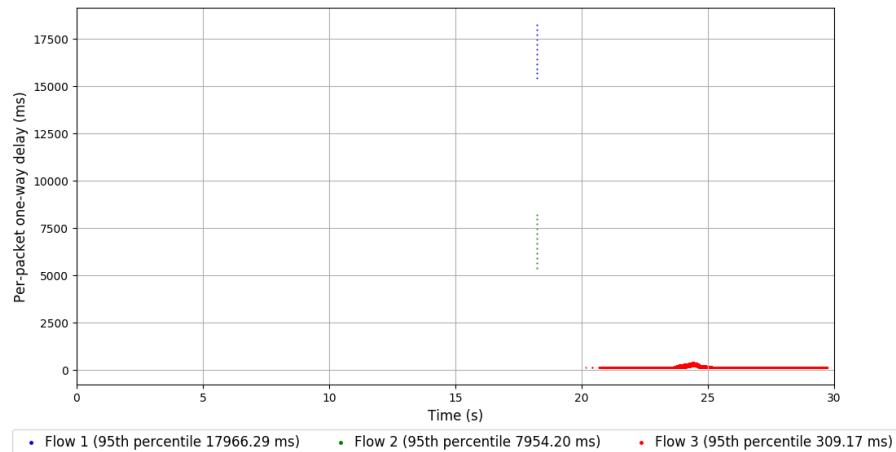
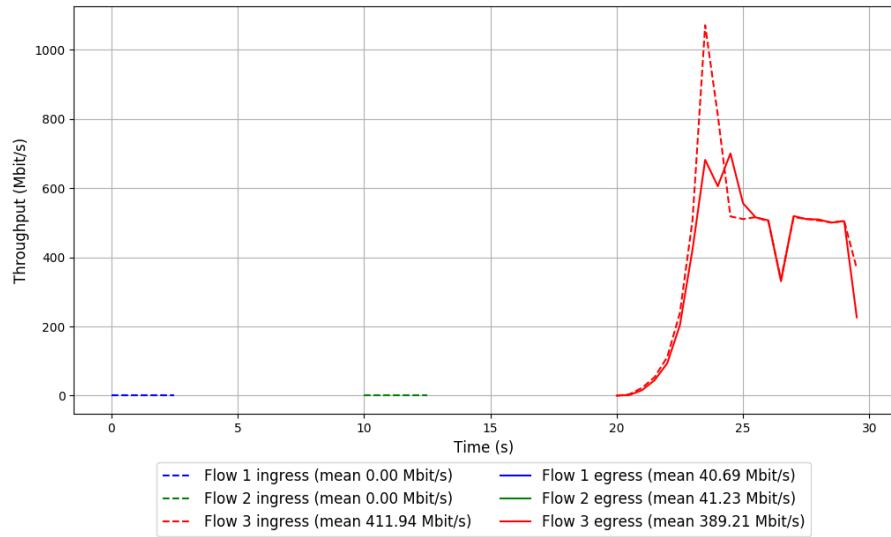


Run 6: Statistics of PCC

Start at: 2018-01-18 03:23:39

End at: 2018-01-18 03:24:09

## Run 6: Report of PCC — Data Link



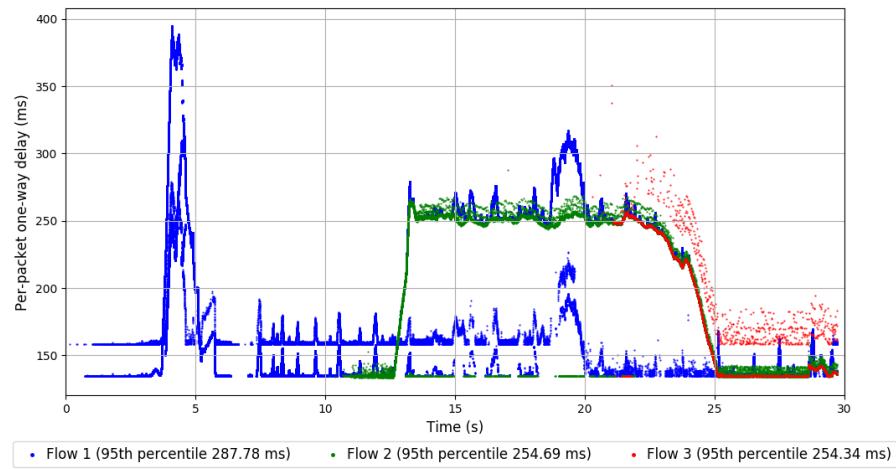
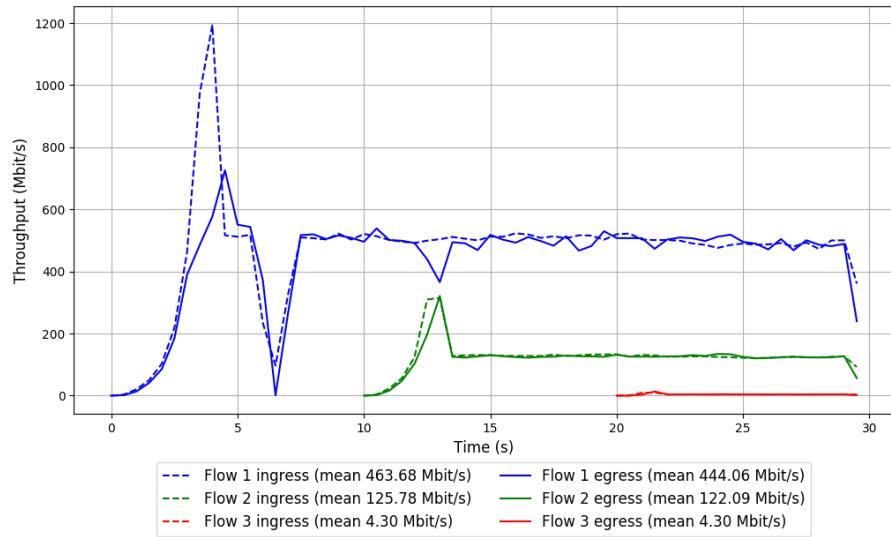
Run 7: Statistics of PCC

Start at: 2018-01-18 03:43:13

End at: 2018-01-18 03:43:43

```
# Below is generated by plot.py at 2018-01-18 08:42:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 526.27 Mbit/s
95th percentile per-packet one-way delay: 277.053 ms
Loss rate: 5.05%
-- Flow 1:
Average throughput: 444.06 Mbit/s
95th percentile per-packet one-way delay: 287.779 ms
Loss rate: 5.19%
-- Flow 2:
Average throughput: 122.09 Mbit/s
95th percentile per-packet one-way delay: 254.689 ms
Loss rate: 4.28%
-- Flow 3:
Average throughput: 4.30 Mbit/s
95th percentile per-packet one-way delay: 254.336 ms
Loss rate: 4.19%
```

## Run 7: Report of PCC — Data Link



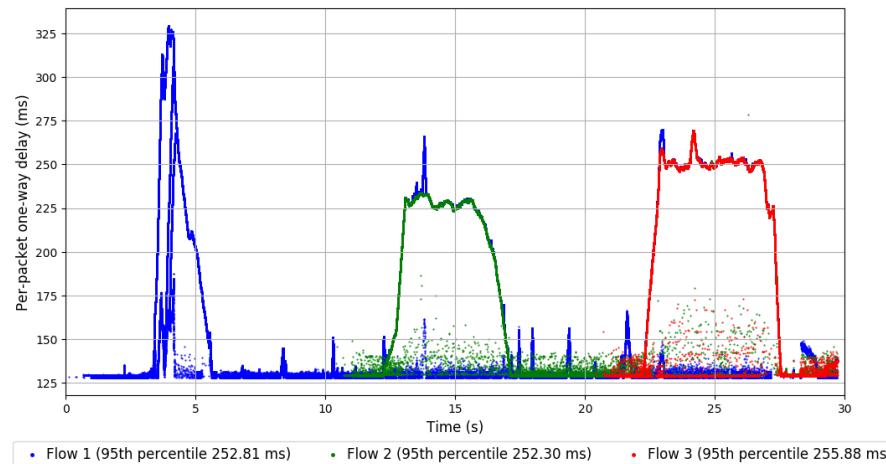
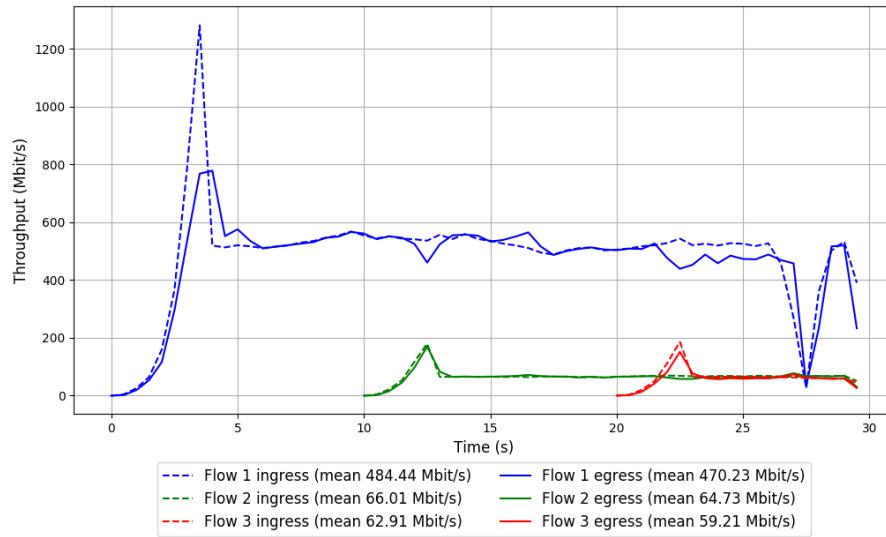
Run 8: Statistics of PCC

Start at: 2018-01-18 04:02:40

End at: 2018-01-18 04:03:10

```
# Below is generated by plot.py at 2018-01-18 08:43:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 532.15 Mbit/s
95th percentile per-packet one-way delay: 252.832 ms
Loss rate: 3.96%
-- Flow 1:
Average throughput: 470.23 Mbit/s
95th percentile per-packet one-way delay: 252.812 ms
Loss rate: 3.82%
-- Flow 2:
Average throughput: 64.73 Mbit/s
95th percentile per-packet one-way delay: 252.302 ms
Loss rate: 3.31%
-- Flow 3:
Average throughput: 59.21 Mbit/s
95th percentile per-packet one-way delay: 255.883 ms
Loss rate: 8.59%
```

Run 8: Report of PCC — Data Link



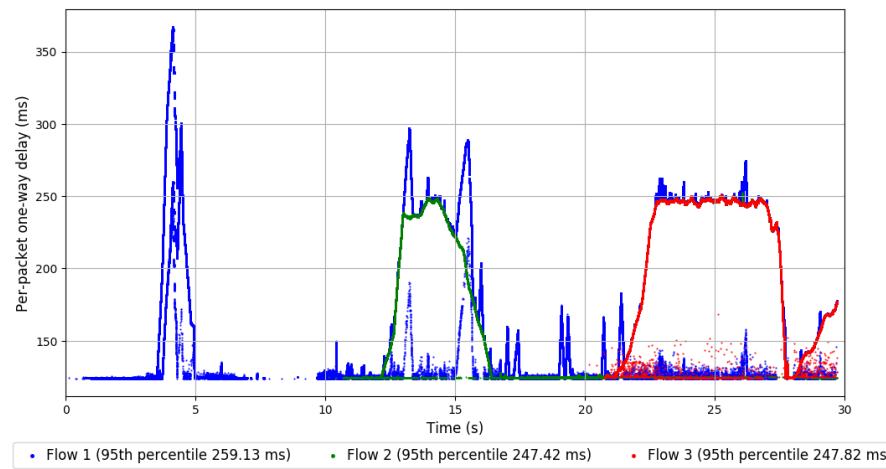
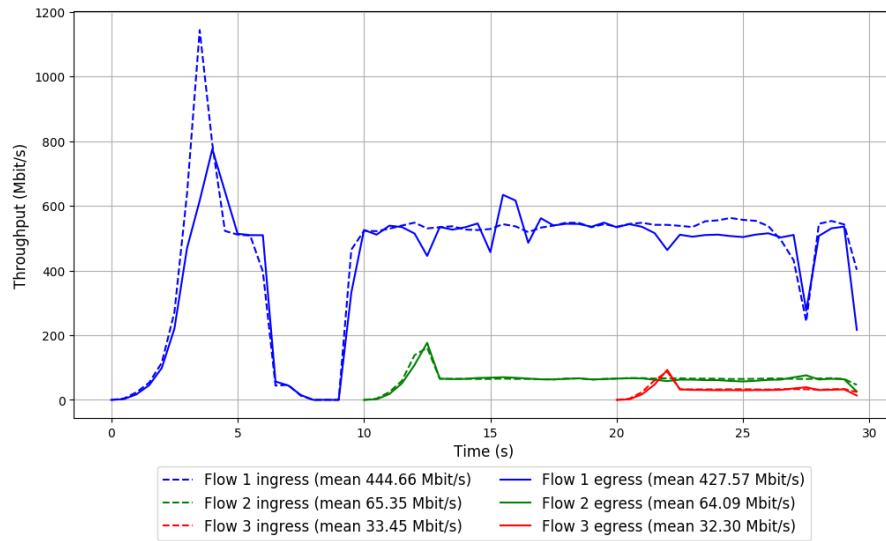
Run 9: Statistics of PCC

Start at: 2018-01-18 04:22:54

End at: 2018-01-18 04:23:24

```
# Below is generated by plot.py at 2018-01-18 08:43:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 480.41 Mbit/s
95th percentile per-packet one-way delay: 256.624 ms
Loss rate: 4.63%
-- Flow 1:
Average throughput: 427.57 Mbit/s
95th percentile per-packet one-way delay: 259.129 ms
Loss rate: 4.72%
-- Flow 2:
Average throughput: 64.09 Mbit/s
95th percentile per-packet one-way delay: 247.416 ms
Loss rate: 3.28%
-- Flow 3:
Average throughput: 32.30 Mbit/s
95th percentile per-packet one-way delay: 247.821 ms
Loss rate: 6.21%
```

## Run 9: Report of PCC — Data Link



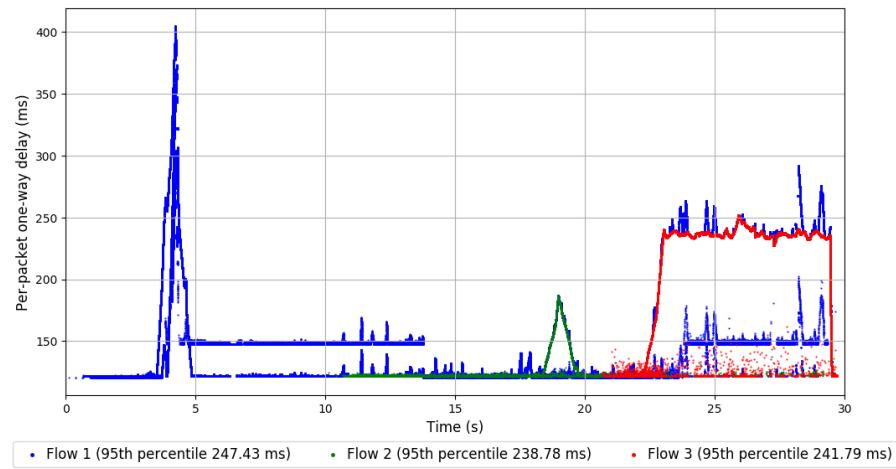
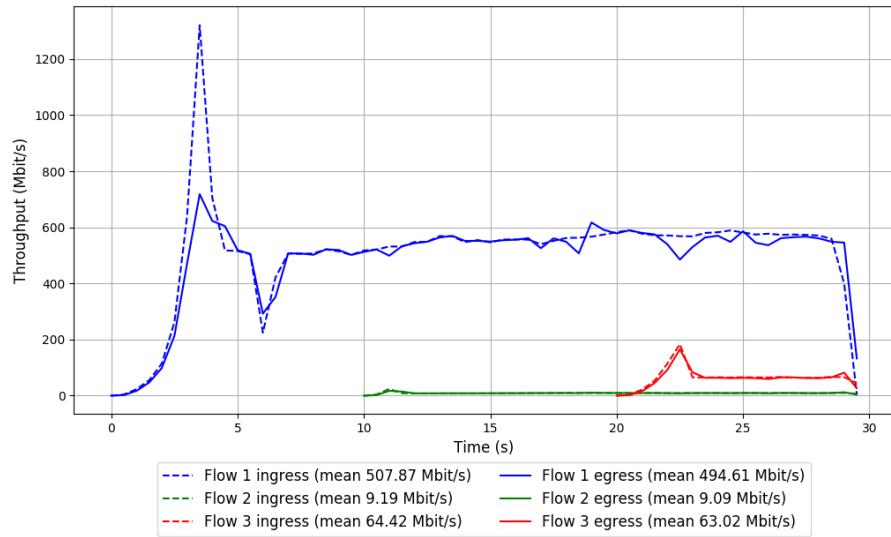
Run 10: Statistics of PCC

Start at: 2018-01-18 04:42:41

End at: 2018-01-18 04:43:11

```
# Below is generated by plot.py at 2018-01-18 08:43:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 519.60 Mbit/s
95th percentile per-packet one-way delay: 246.832 ms
Loss rate: 3.21%
-- Flow 1:
Average throughput: 494.61 Mbit/s
95th percentile per-packet one-way delay: 247.426 ms
Loss rate: 3.15%
-- Flow 2:
Average throughput: 9.09 Mbit/s
95th percentile per-packet one-way delay: 238.775 ms
Loss rate: 2.45%
-- Flow 3:
Average throughput: 63.02 Mbit/s
95th percentile per-packet one-way delay: 241.793 ms
Loss rate: 4.88%
```

Run 10: Report of PCC — Data Link

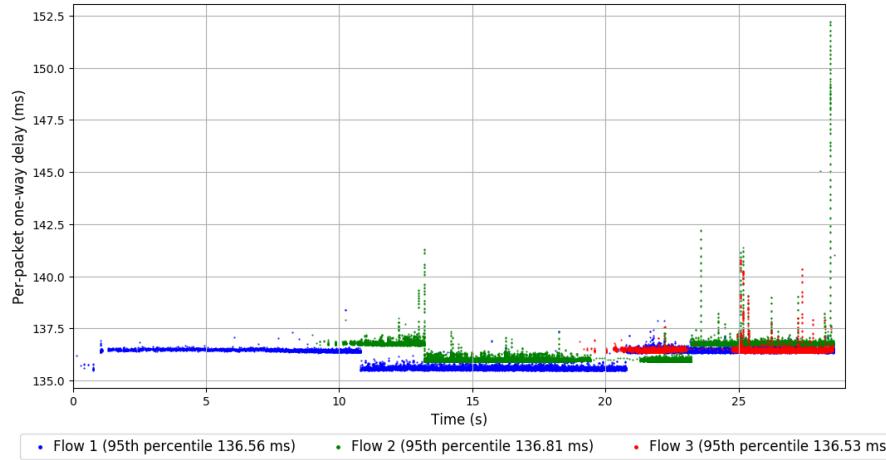
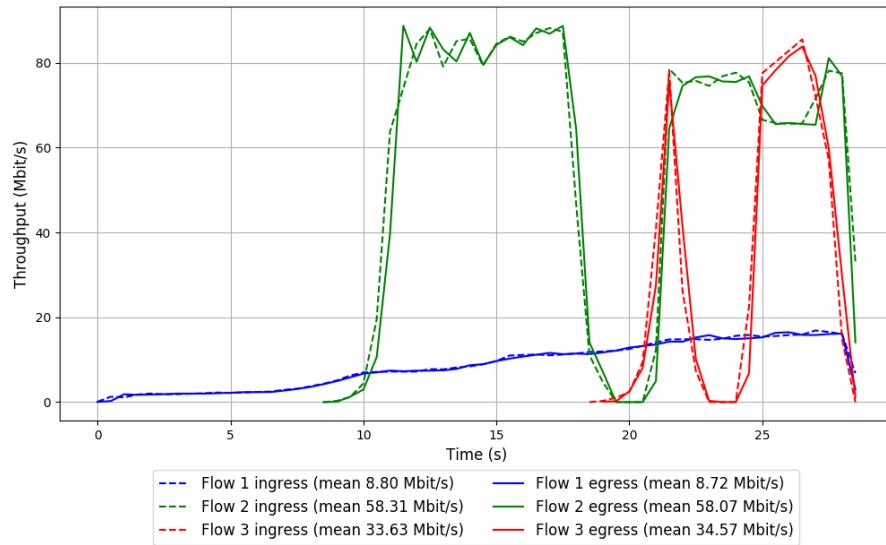


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-18 01:48:11
End at: 2018-01-18 01:48:41

# Below is generated by plot.py at 2018-01-18 08:43:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.28 Mbit/s
95th percentile per-packet one-way delay: 136.795 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 8.72 Mbit/s
95th percentile per-packet one-way delay: 136.557 ms
Loss rate: 1.76%
-- Flow 2:
Average throughput: 58.07 Mbit/s
95th percentile per-packet one-way delay: 136.809 ms
Loss rate: 1.76%
-- Flow 3:
Average throughput: 34.57 Mbit/s
95th percentile per-packet one-way delay: 136.527 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link

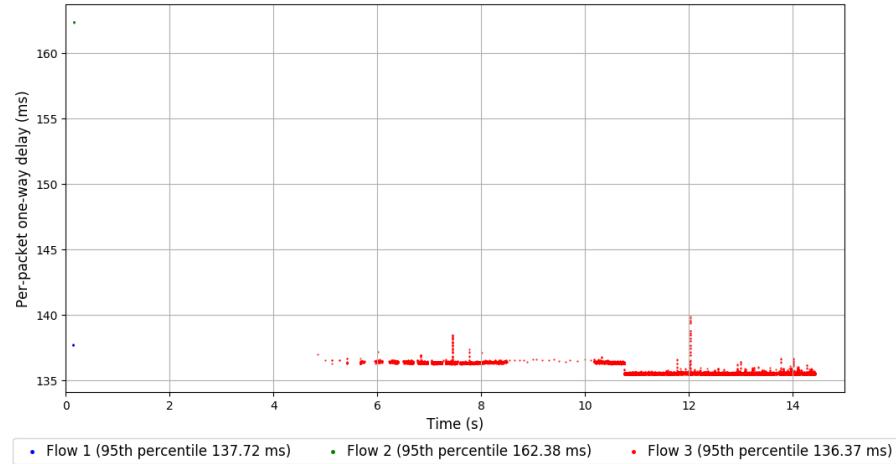
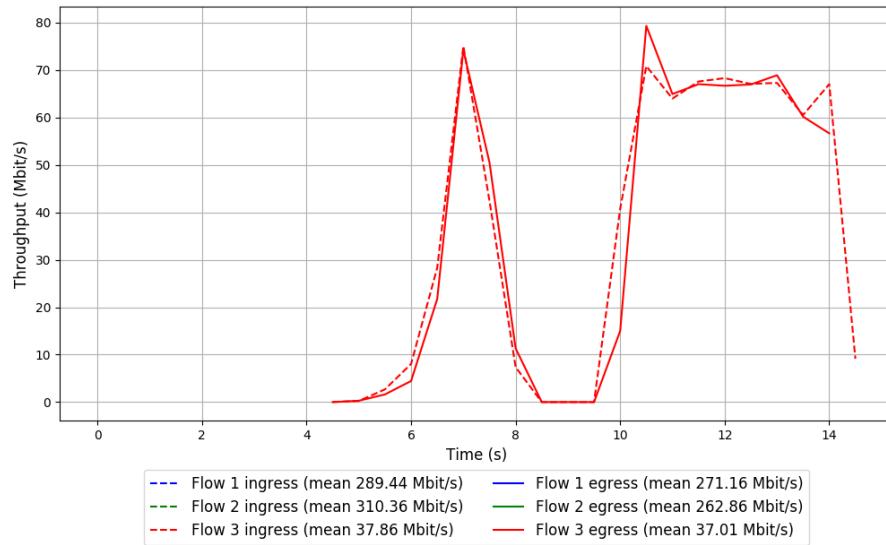


Run 2: Statistics of QUIC Cubic

Start at: 2018-01-18 02:07:39

End at: 2018-01-18 02:08:09

Run 2: Report of QUIC Cubic — Data Link



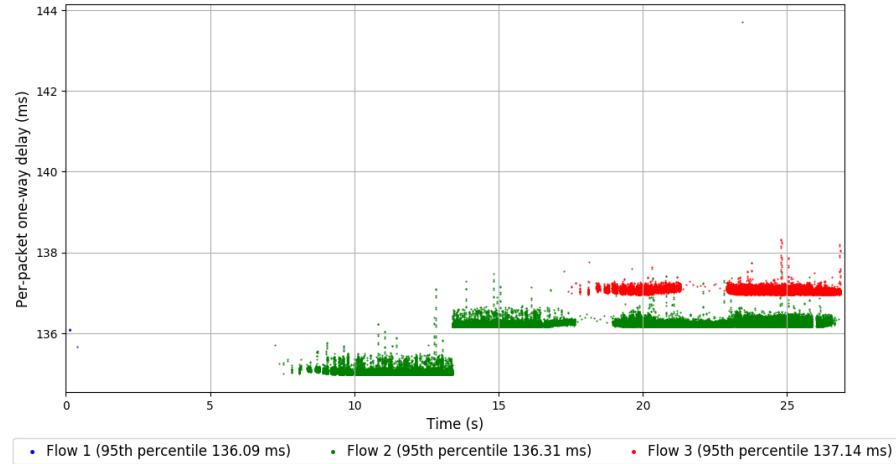
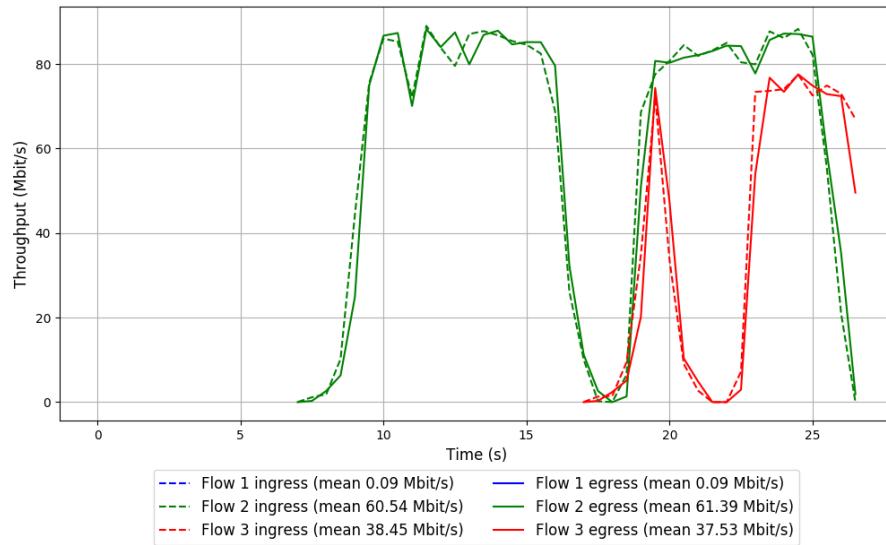
Run 3: Statistics of QUIC Cubic

Start at: 2018-01-18 02:25:36

End at: 2018-01-18 02:26:06

```
# Below is generated by plot.py at 2018-01-18 08:43:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.37 Mbit/s
95th percentile per-packet one-way delay: 137.070 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 136.089 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 61.39 Mbit/s
95th percentile per-packet one-way delay: 136.308 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 37.53 Mbit/s
95th percentile per-packet one-way delay: 137.140 ms
Loss rate: 5.11%
```

### Run 3: Report of QUIC Cubic — Data Link



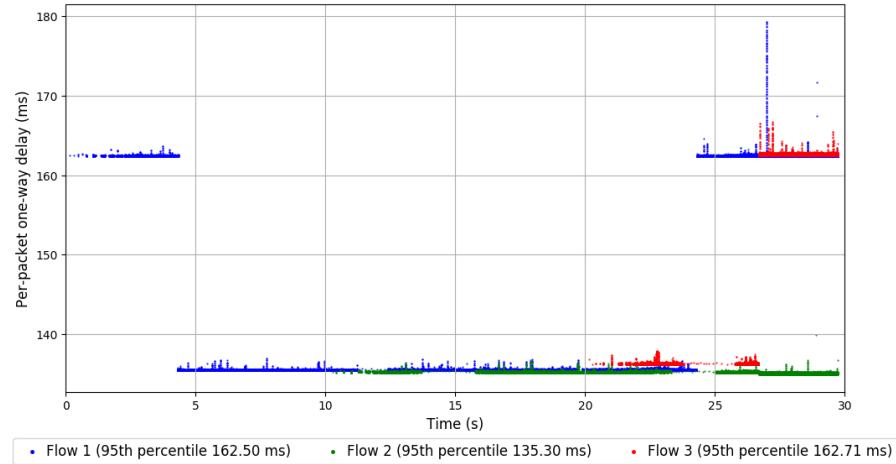
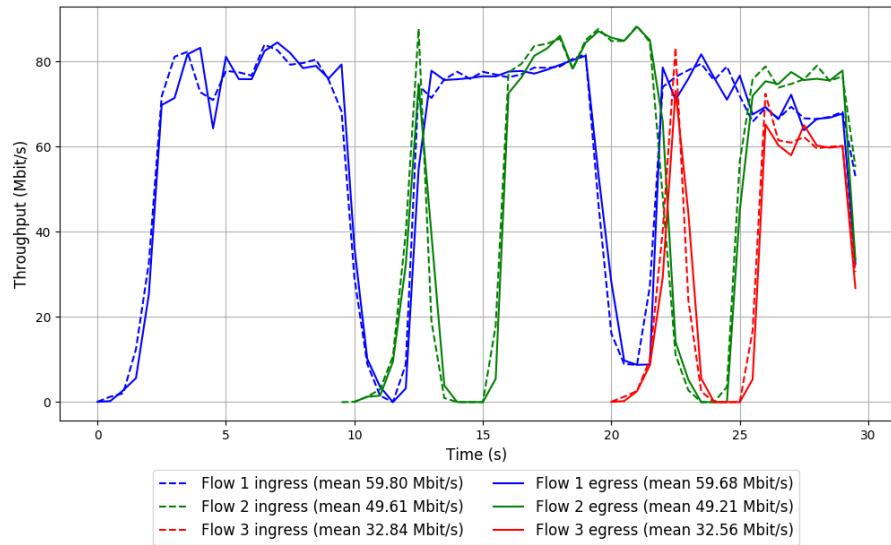
Run 4: Statistics of QUIC Cubic

Start at: 2018-01-18 02:45:08

End at: 2018-01-18 02:45:38

```
# Below is generated by plot.py at 2018-01-18 08:43:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 102.84 Mbit/s
95th percentile per-packet one-way delay: 162.567 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 59.68 Mbit/s
95th percentile per-packet one-way delay: 162.499 ms
Loss rate: 1.20%
-- Flow 2:
Average throughput: 49.21 Mbit/s
95th percentile per-packet one-way delay: 135.298 ms
Loss rate: 2.16%
-- Flow 3:
Average throughput: 32.56 Mbit/s
95th percentile per-packet one-way delay: 162.705 ms
Loss rate: 3.60%
```

## Run 4: Report of QUIC Cubic — Data Link



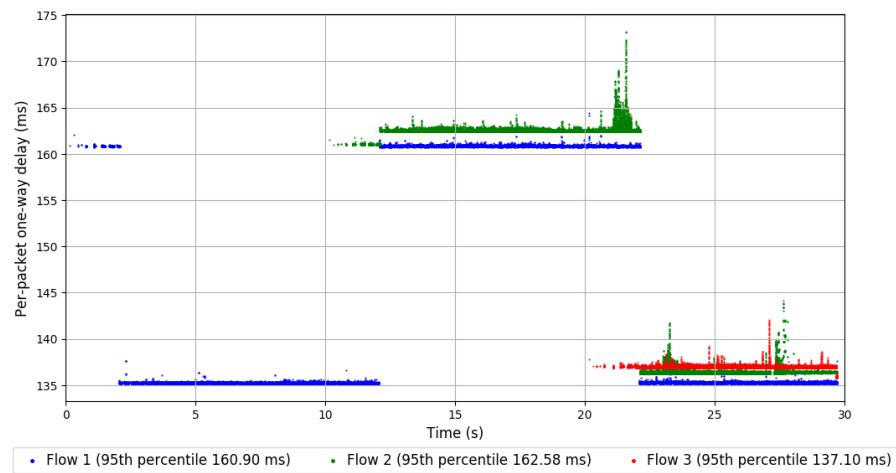
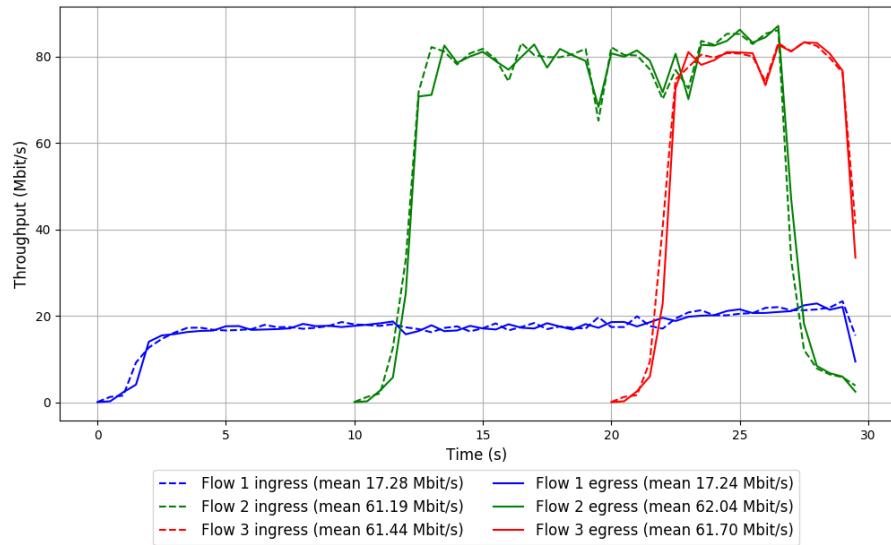
Run 5: Statistics of QUIC Cubic

Start at: 2018-01-18 03:05:23

End at: 2018-01-18 03:05:53

```
# Below is generated by plot.py at 2018-01-18 08:43:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.22 Mbit/s
95th percentile per-packet one-way delay: 162.535 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 17.24 Mbit/s
95th percentile per-packet one-way delay: 160.901 ms
Loss rate: 1.20%
-- Flow 2:
Average throughput: 62.04 Mbit/s
95th percentile per-packet one-way delay: 162.578 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 61.70 Mbit/s
95th percentile per-packet one-way delay: 137.103 ms
Loss rate: 2.37%
```

Run 5: Report of QUIC Cubic — Data Link



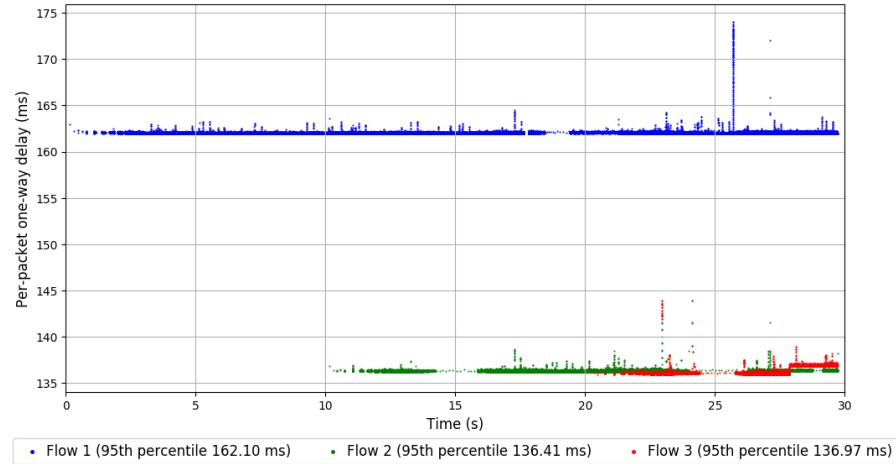
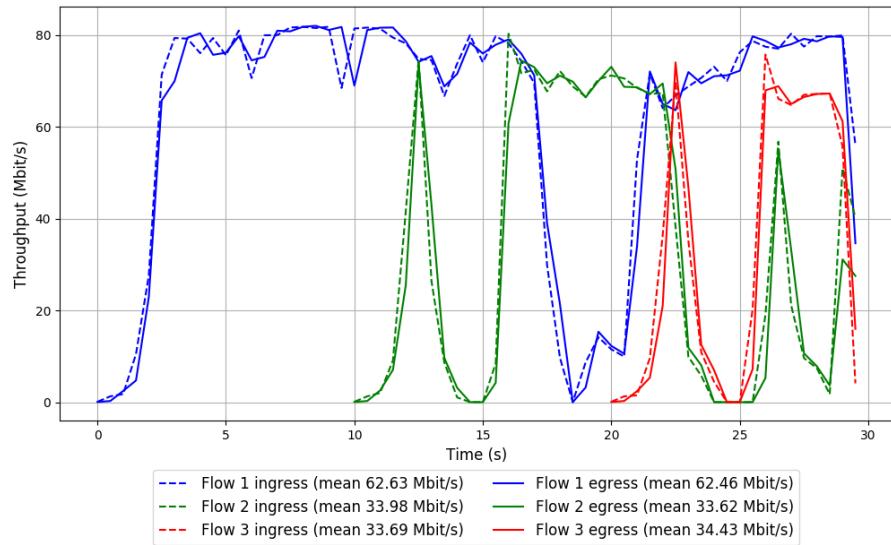
Run 6: Statistics of QUIC Cubic

Start at: 2018-01-18 03:24:35

End at: 2018-01-18 03:25:05

```
# Below is generated by plot.py at 2018-01-18 08:44:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.81 Mbit/s
95th percentile per-packet one-way delay: 162.083 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 62.46 Mbit/s
95th percentile per-packet one-way delay: 162.103 ms
Loss rate: 1.27%
-- Flow 2:
Average throughput: 33.62 Mbit/s
95th percentile per-packet one-way delay: 136.414 ms
Loss rate: 2.41%
-- Flow 3:
Average throughput: 34.43 Mbit/s
95th percentile per-packet one-way delay: 136.971 ms
Loss rate: 0.15%
```

Run 6: Report of QUIC Cubic — Data Link

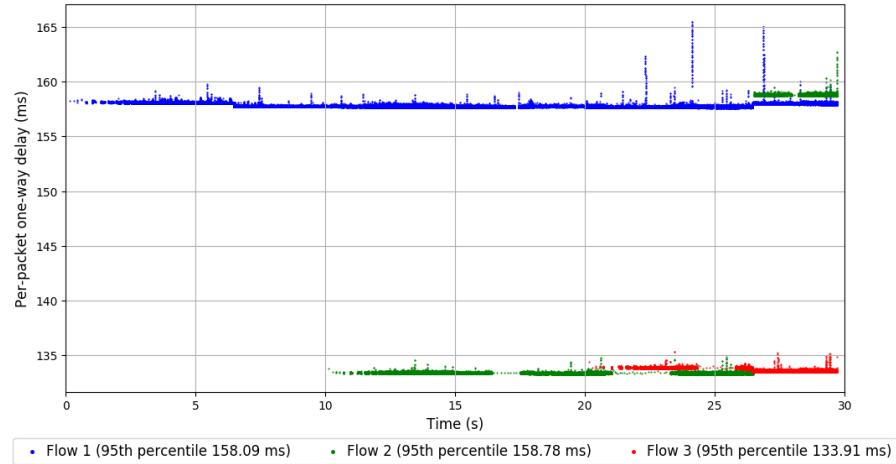
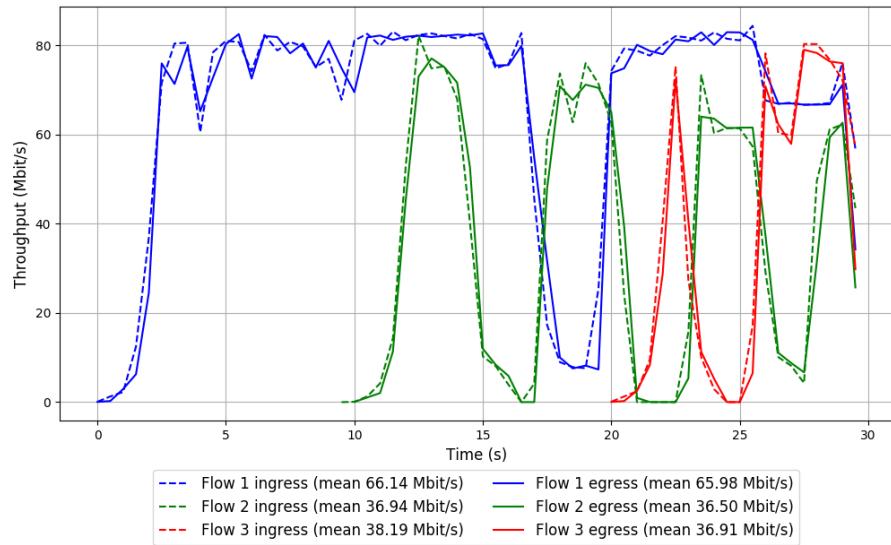


```
Run 7: Statistics of QUIC Cubic

Start at: 2018-01-18 03:44:29
End at: 2018-01-18 03:44:59

# Below is generated by plot.py at 2018-01-18 08:44:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 102.12 Mbit/s
95th percentile per-packet one-way delay: 158.112 ms
Loss rate: 2.13%
-- Flow 1:
Average throughput: 65.98 Mbit/s
95th percentile per-packet one-way delay: 158.085 ms
Loss rate: 1.24%
-- Flow 2:
Average throughput: 36.50 Mbit/s
95th percentile per-packet one-way delay: 158.785 ms
Loss rate: 2.54%
-- Flow 3:
Average throughput: 36.91 Mbit/s
95th percentile per-packet one-way delay: 133.907 ms
Loss rate: 6.03%
```

Run 7: Report of QUIC Cubic — Data Link



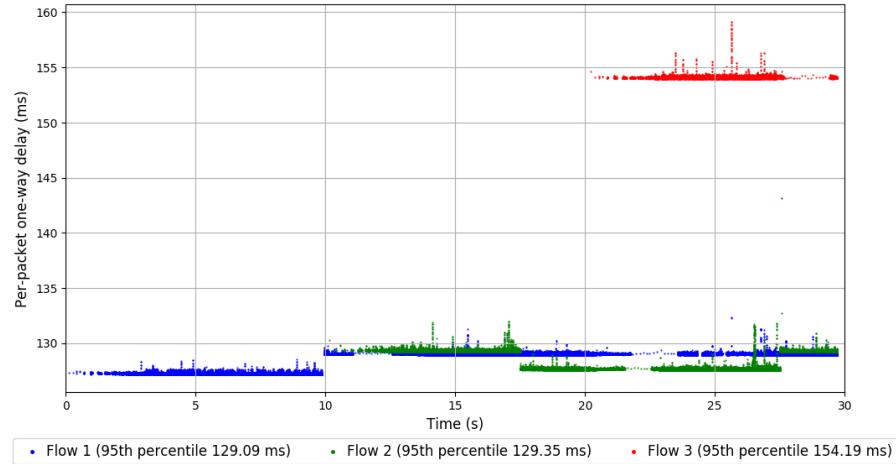
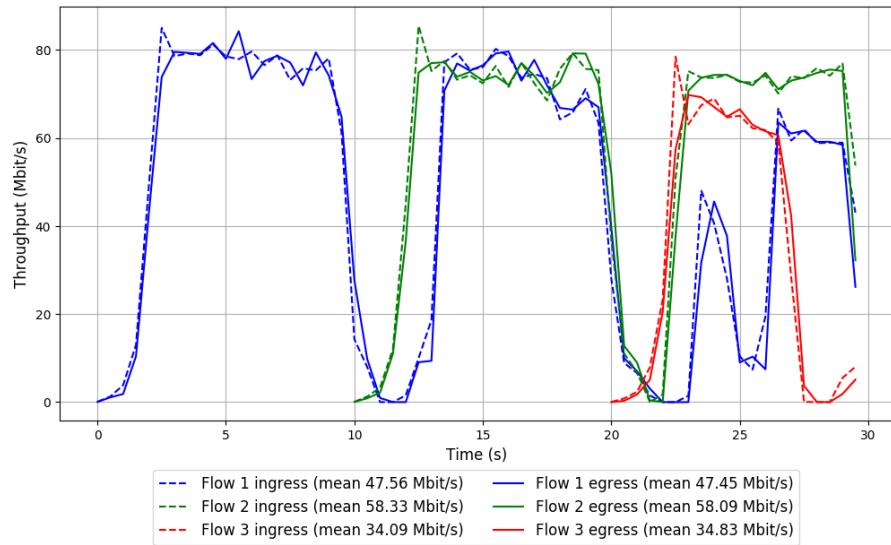
Run 8: Statistics of QUIC Cubic

Start at: 2018-01-18 04:03:55

End at: 2018-01-18 04:04:25

```
# Below is generated by plot.py at 2018-01-18 08:44:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.03 Mbit/s
95th percentile per-packet one-way delay: 154.056 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 47.45 Mbit/s
95th percentile per-packet one-way delay: 129.088 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 58.09 Mbit/s
95th percentile per-packet one-way delay: 129.346 ms
Loss rate: 1.79%
-- Flow 3:
Average throughput: 34.83 Mbit/s
95th percentile per-packet one-way delay: 154.195 ms
Loss rate: 0.99%
```

Run 8: Report of QUIC Cubic — Data Link



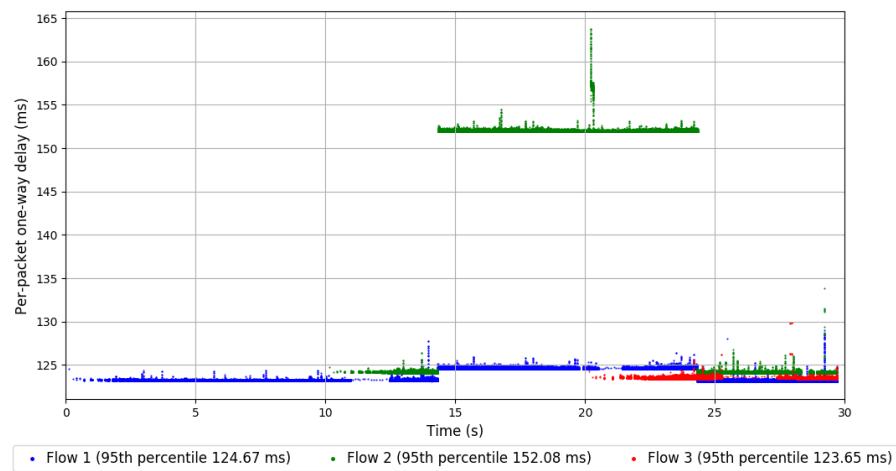
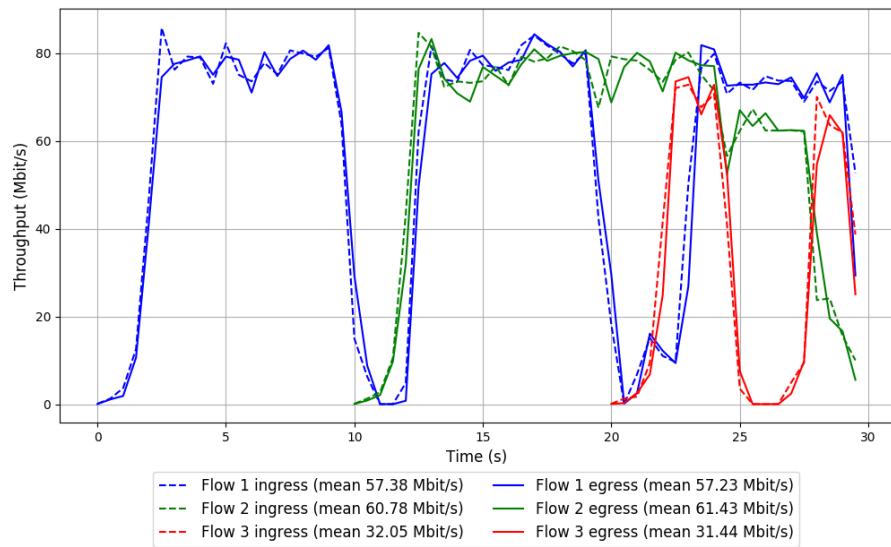
Run 9: Statistics of QUIC Cubic

Start at: 2018-01-18 04:24:08

End at: 2018-01-18 04:24:38

```
# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 107.98 Mbit/s
95th percentile per-packet one-way delay: 152.023 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 57.23 Mbit/s
95th percentile per-packet one-way delay: 124.669 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 61.43 Mbit/s
95th percentile per-packet one-way delay: 152.079 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 31.44 Mbit/s
95th percentile per-packet one-way delay: 123.647 ms
Loss rate: 4.63%
```

## Run 9: Report of QUIC Cubic — Data Link



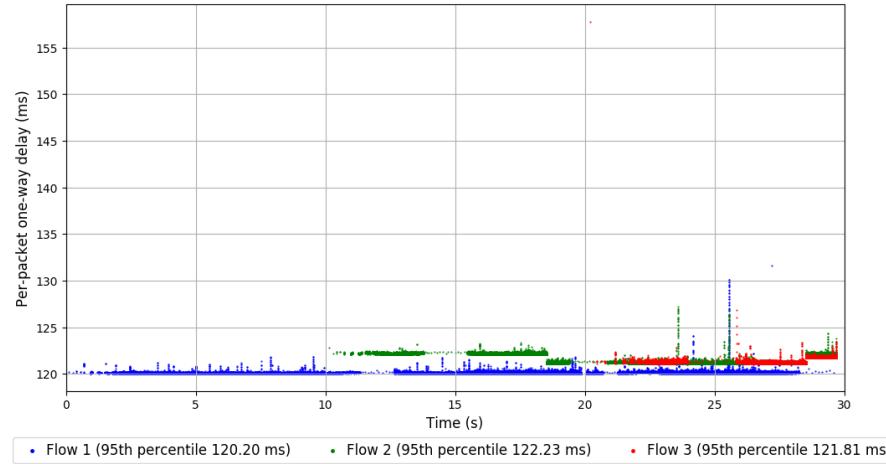
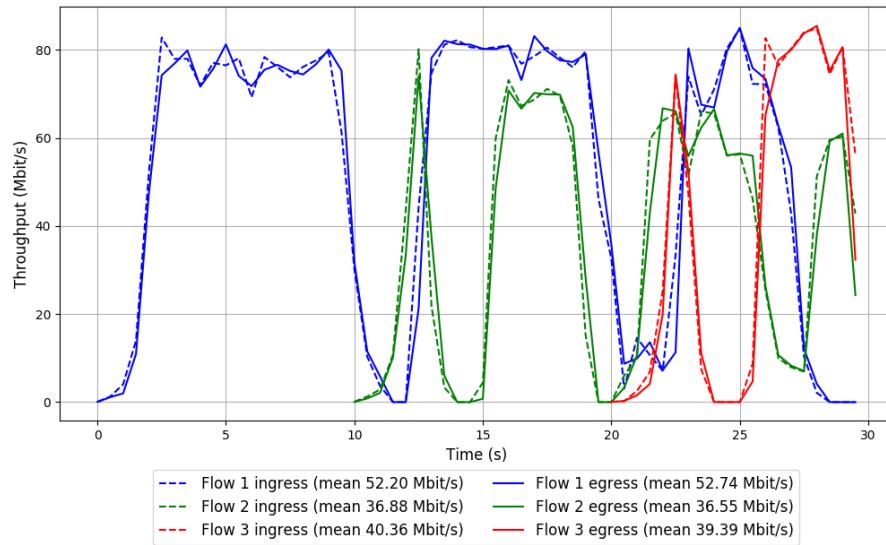
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-18 04:43:57

End at: 2018-01-18 04:44:27

```
# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.38 Mbit/s
95th percentile per-packet one-way delay: 122.155 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 52.74 Mbit/s
95th percentile per-packet one-way delay: 120.200 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.55 Mbit/s
95th percentile per-packet one-way delay: 122.229 ms
Loss rate: 2.26%
-- Flow 3:
Average throughput: 39.39 Mbit/s
95th percentile per-packet one-way delay: 121.812 ms
Loss rate: 5.46%
```

Run 10: Report of QUIC Cubic — Data Link

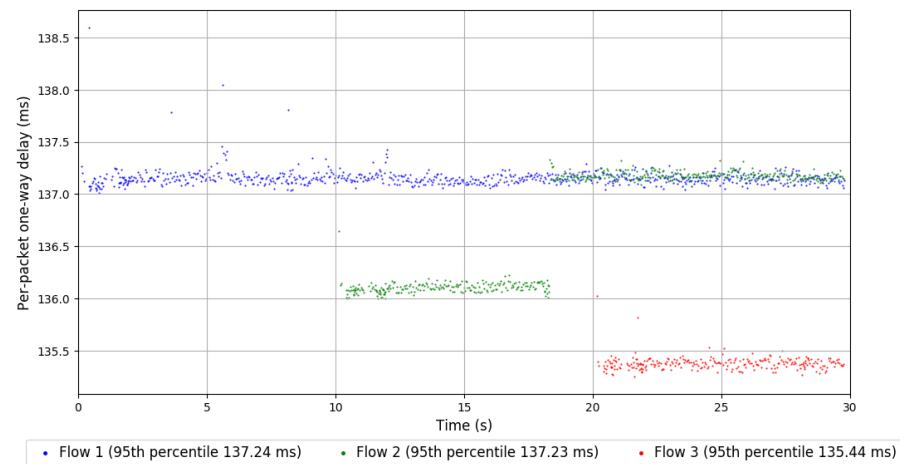
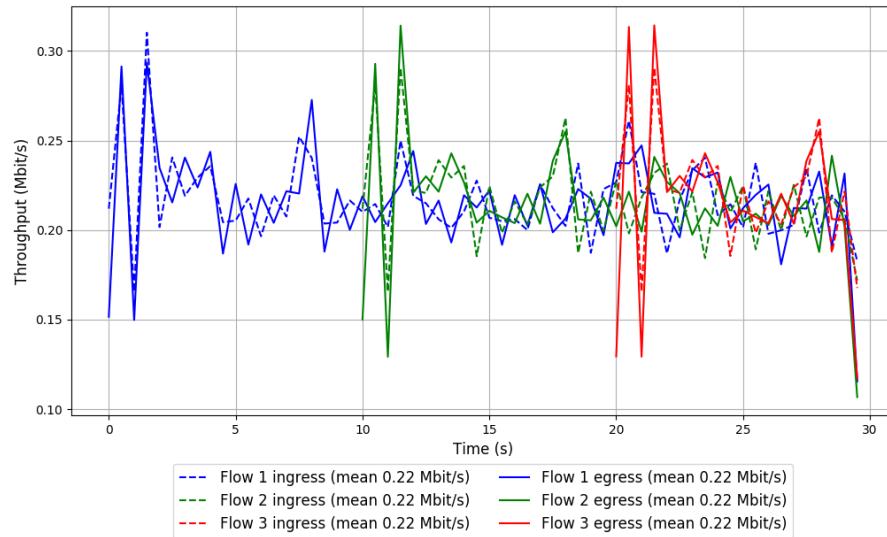


```
Run 1: Statistics of SCReAM

Start at: 2018-01-18 01:50:27
End at: 2018-01-18 01:50:57

# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 137.231 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.236 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.233 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.440 ms
Loss rate: 2.63%
```

Run 1: Report of SCReAM — Data Link



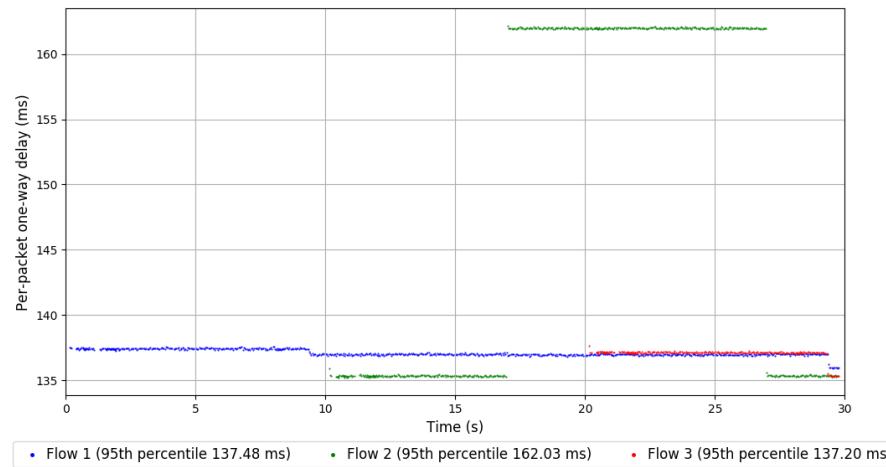
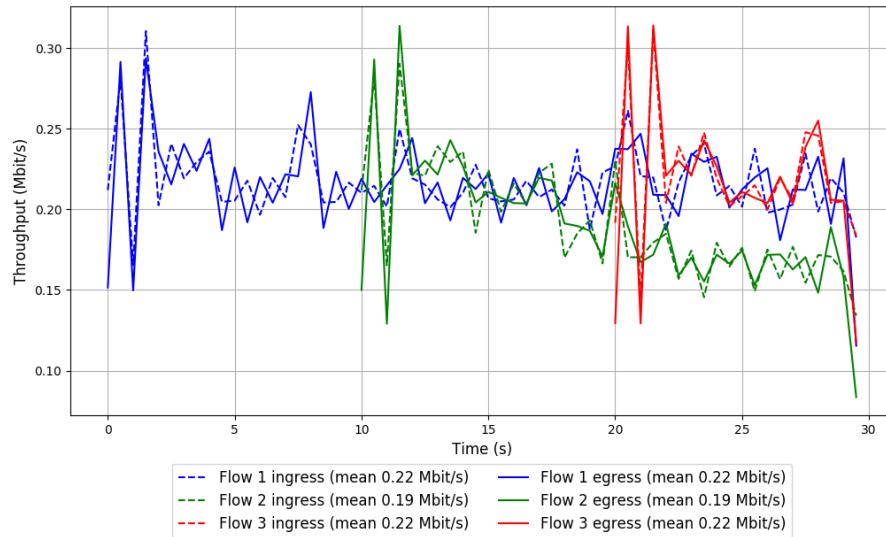
Run 2: Statistics of SCReAM

Start at: 2018-01-18 02:09:26

End at: 2018-01-18 02:09:56

```
# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 162.002 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.479 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 162.032 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.198 ms
Loss rate: 2.63%
```

Run 2: Report of SCReAM — Data Link



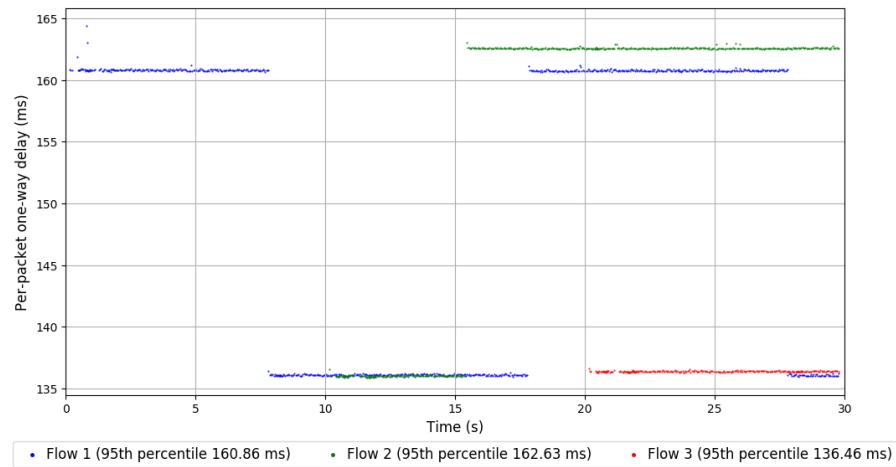
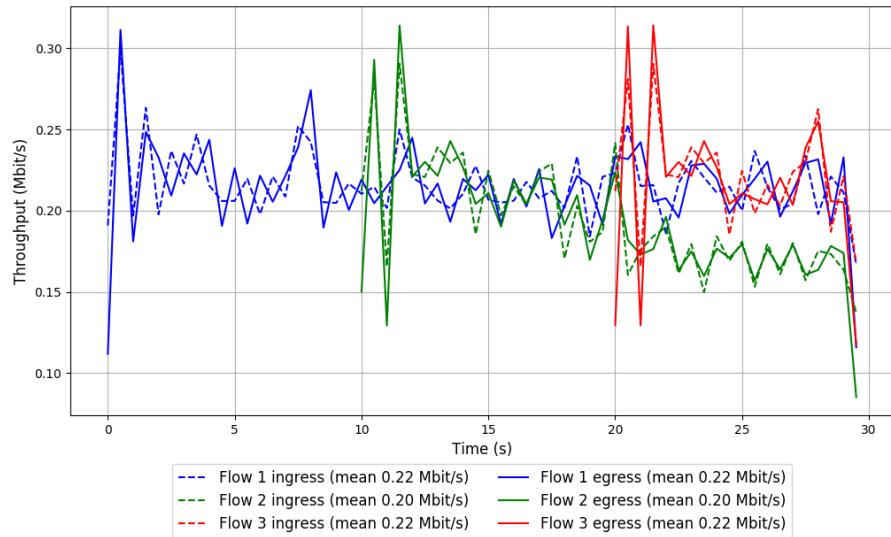
Run 3: Statistics of SCReAM

Start at: 2018-01-18 02:27:47

End at: 2018-01-18 02:28:17

```
# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 162.595 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 160.862 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 162.626 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.456 ms
Loss rate: 2.63%
```

Run 3: Report of SCReAM — Data Link



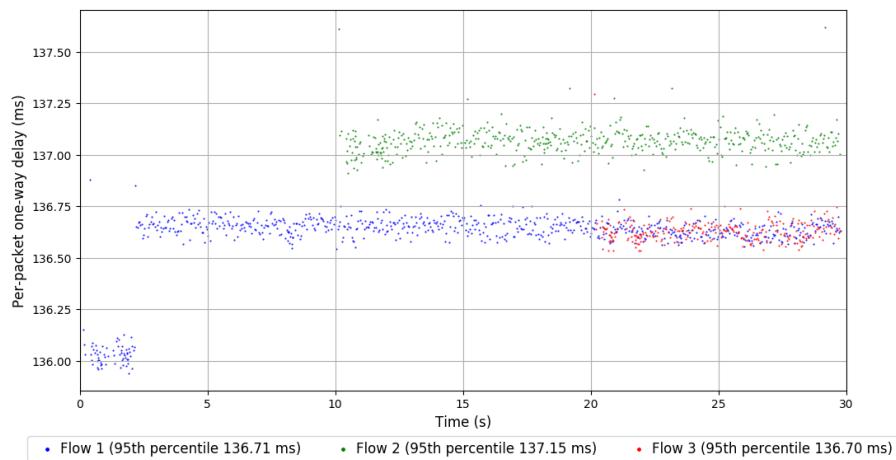
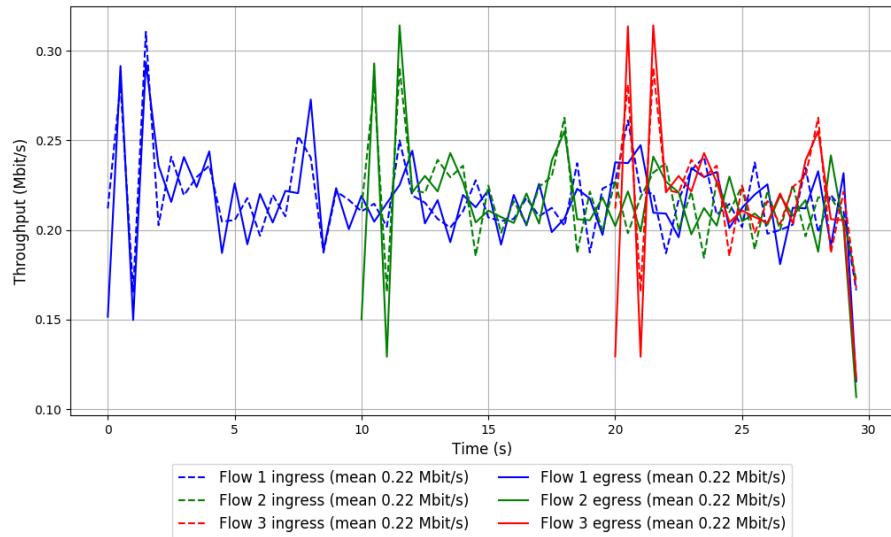
Run 4: Statistics of SCReAM

Start at: 2018-01-18 02:47:23

End at: 2018-01-18 02:47:53

```
# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 137.116 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.714 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.150 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.699 ms
Loss rate: 2.63%
```

Run 4: Report of SCReAM — Data Link



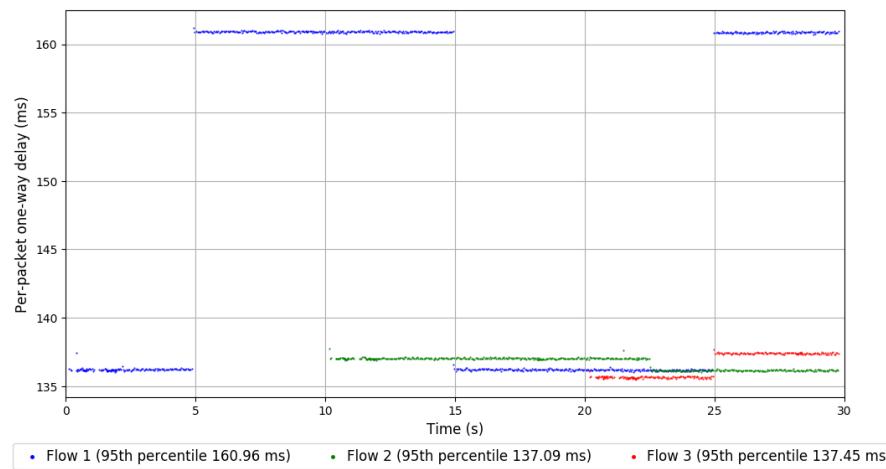
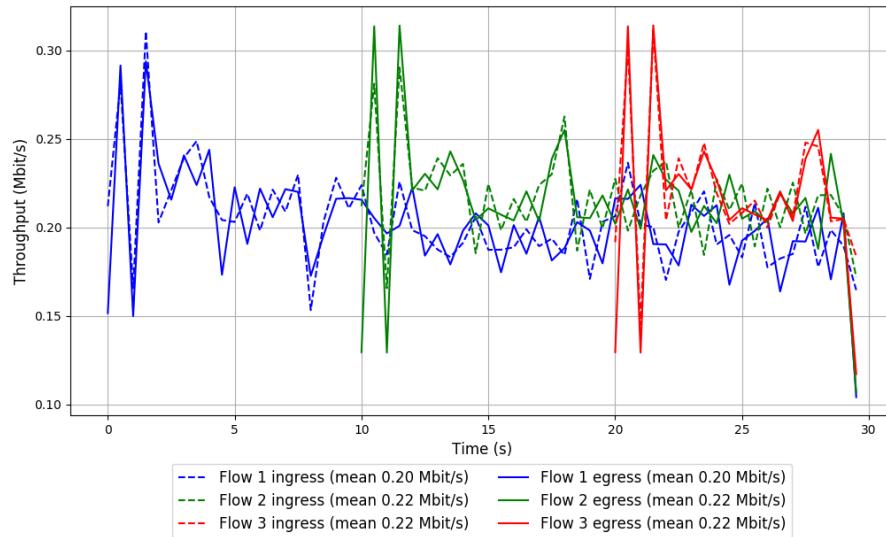
Run 5: Statistics of SCReAM

Start at: 2018-01-18 03:07:20

End at: 2018-01-18 03:07:50

```
# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 160.941 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 160.959 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.088 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.450 ms
Loss rate: 2.63%
```

Run 5: Report of SCReAM — Data Link



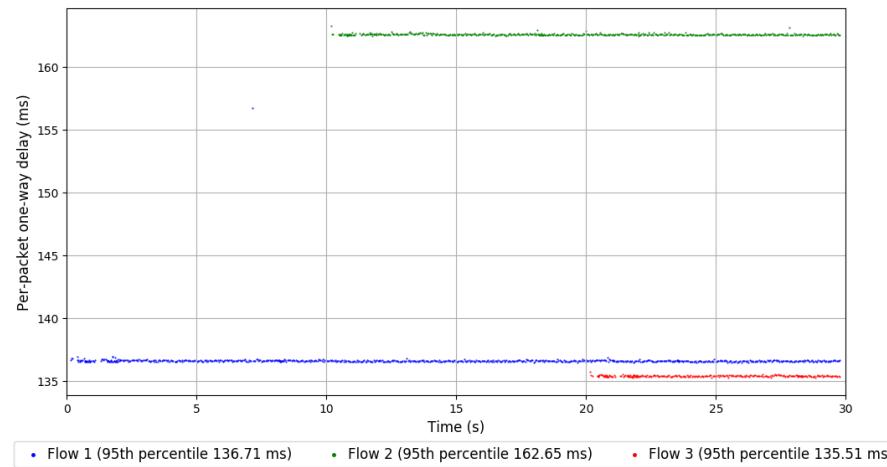
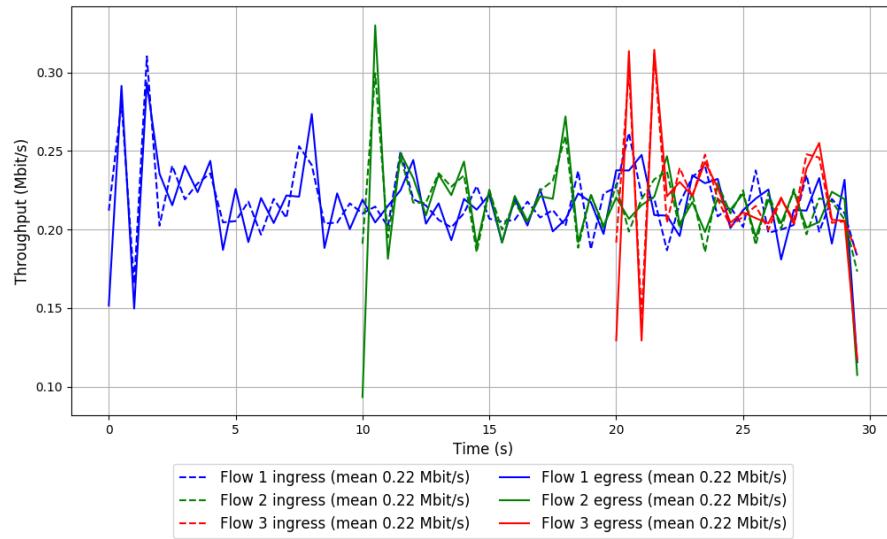
Run 6: Statistics of SCReAM

Start at: 2018-01-18 03:26:41

End at: 2018-01-18 03:27:11

```
# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 162.612 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.706 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 162.653 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.508 ms
Loss rate: 2.63%
```

Run 6: Report of SCReAM — Data Link



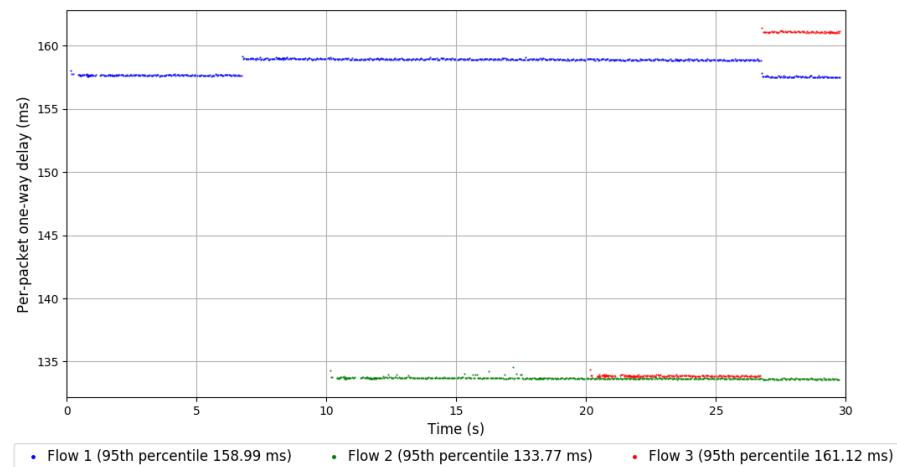
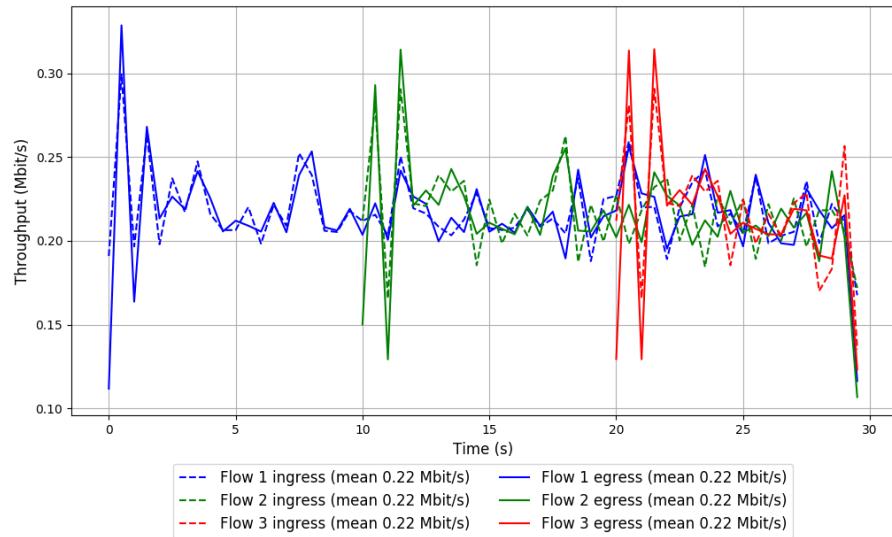
Run 7: Statistics of SCReAM

Start at: 2018-01-18 03:46:18

End at: 2018-01-18 03:46:48

```
# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 161.016 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 158.992 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 133.774 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 161.118 ms
Loss rate: 2.17%
```

Run 7: Report of SCReAM — Data Link



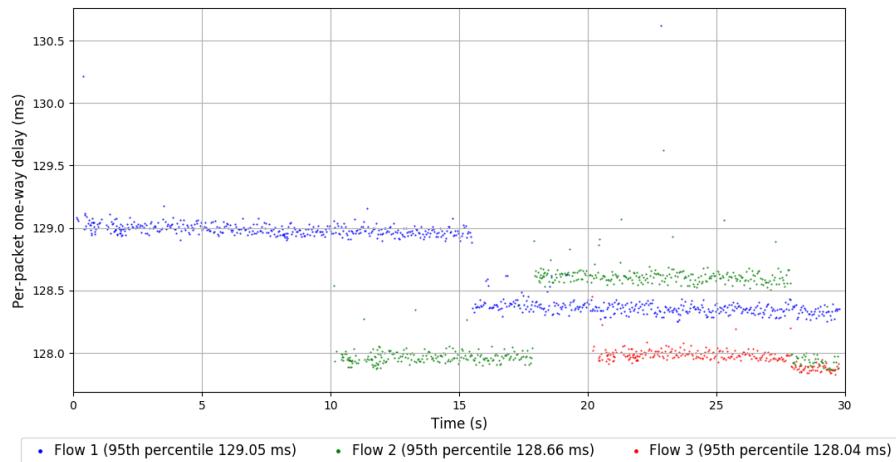
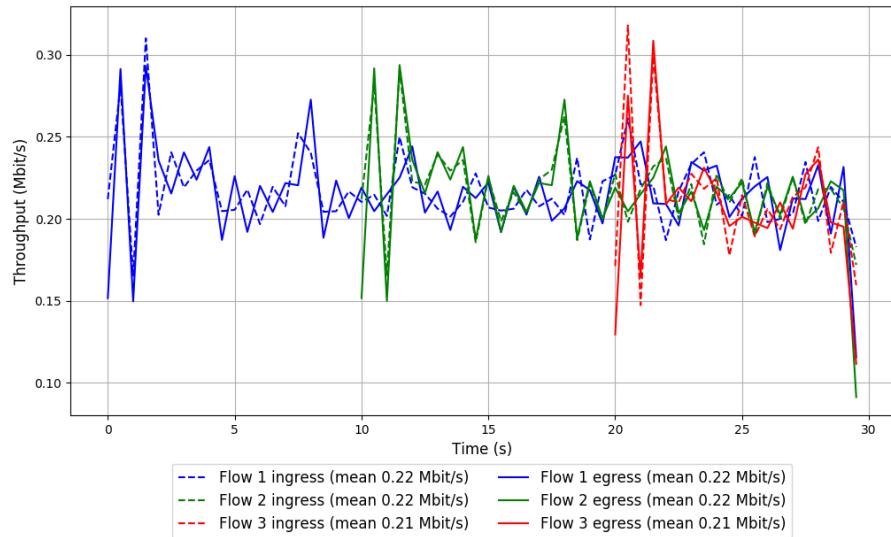
```
Run 8: Statistics of SCReAM
```

```
Start at: 2018-01-18 04:06:07
```

```
End at: 2018-01-18 04:06:37
```

```
# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 129.028 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 129.046 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 128.662 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 128.042 ms
Loss rate: 2.61%
```

Run 8: Report of SCReAM — Data Link



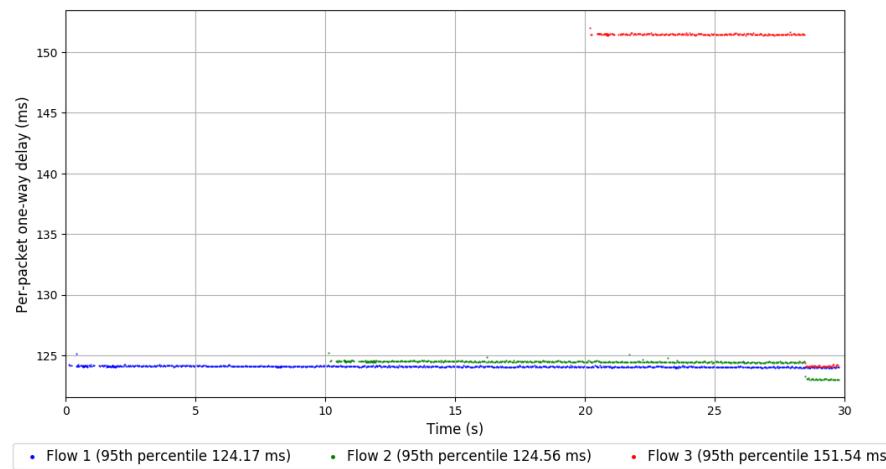
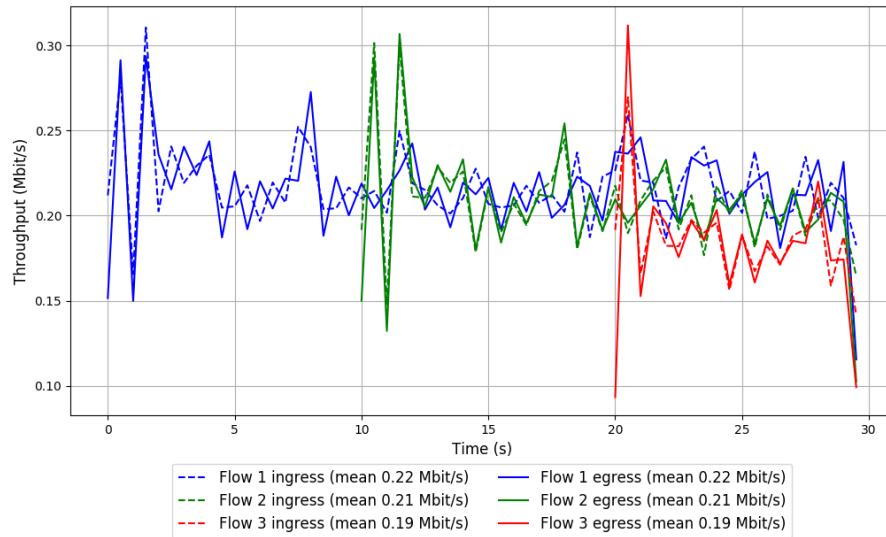
Run 9: Statistics of SCReAM

Start at: 2018-01-18 04:26:27

End at: 2018-01-18 04:26:57

```
# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 151.486 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 124.167 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 124.561 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 151.540 ms
Loss rate: 2.64%
```

Run 9: Report of SCReAM — Data Link



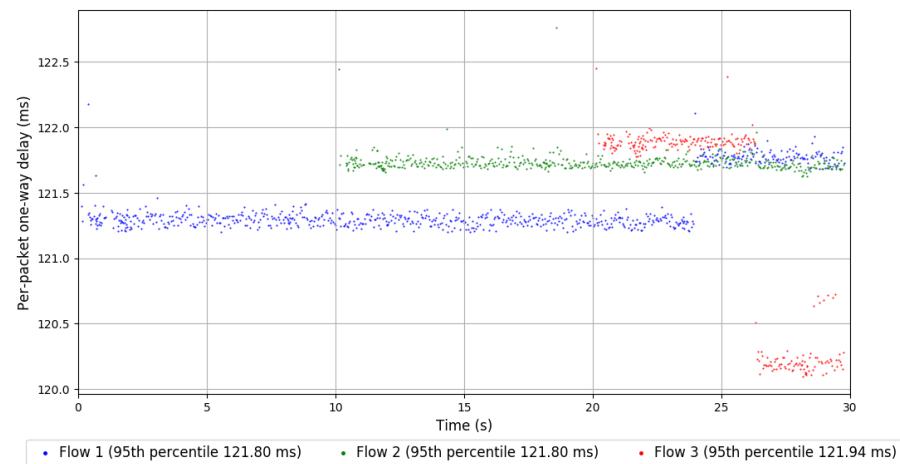
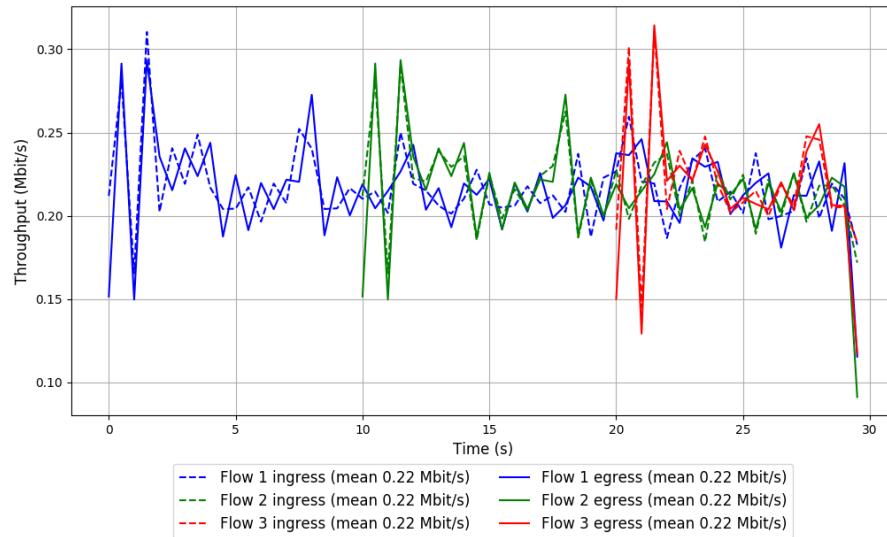
Run 10: Statistics of SCReAM

Start at: 2018-01-18 04:46:09

End at: 2018-01-18 04:46:39

```
# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 121.899 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 121.797 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 121.802 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 121.944 ms
Loss rate: 2.63%
```

Run 10: Report of SCReAM — Data Link

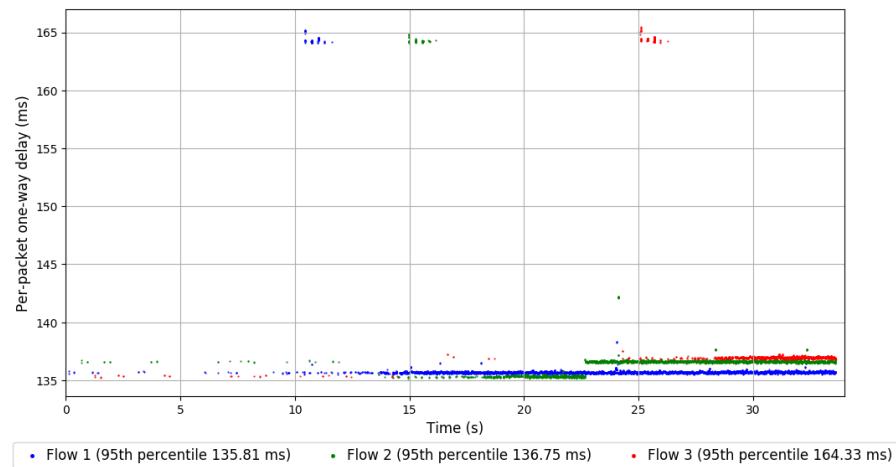
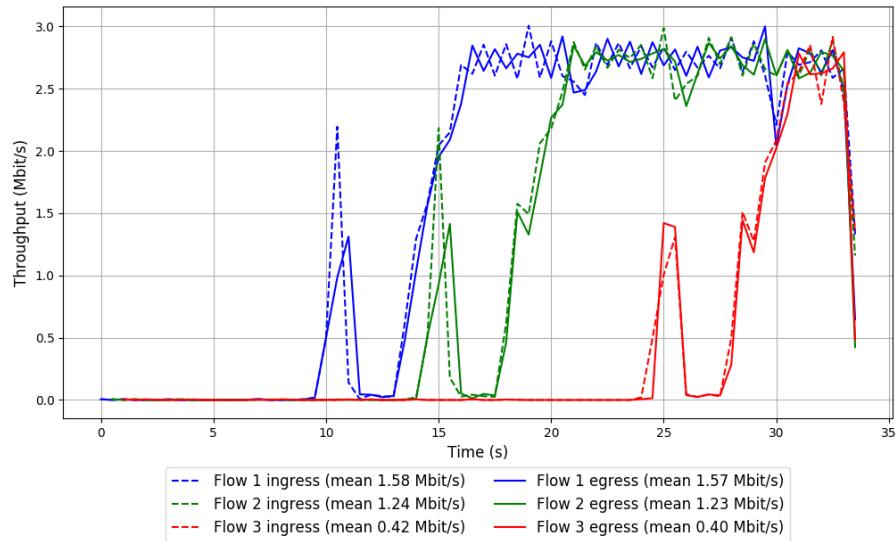


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-18 01:58:14
End at: 2018-01-18 01:58:44

# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.17 Mbit/s
95th percentile per-packet one-way delay: 137.023 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 1.57 Mbit/s
95th percentile per-packet one-way delay: 135.814 ms
Loss rate: 1.38%
-- Flow 2:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 136.754 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 164.329 ms
Loss rate: 4.93%
```

### Run 1: Report of WebRTC media — Data Link

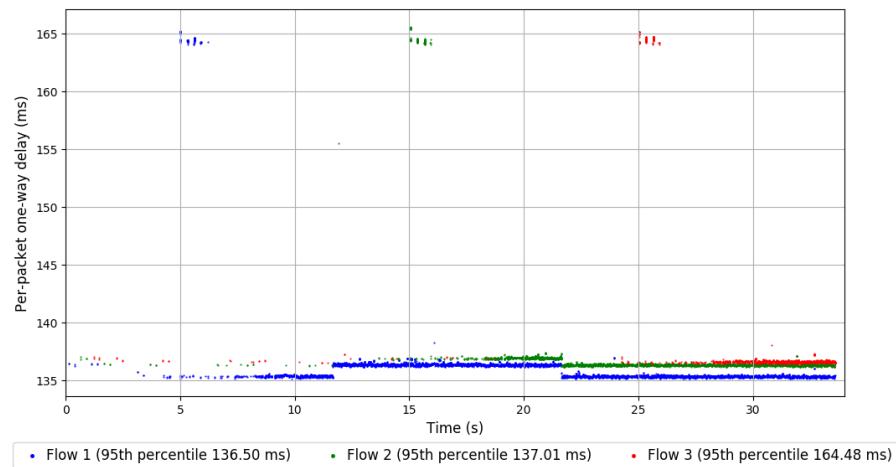
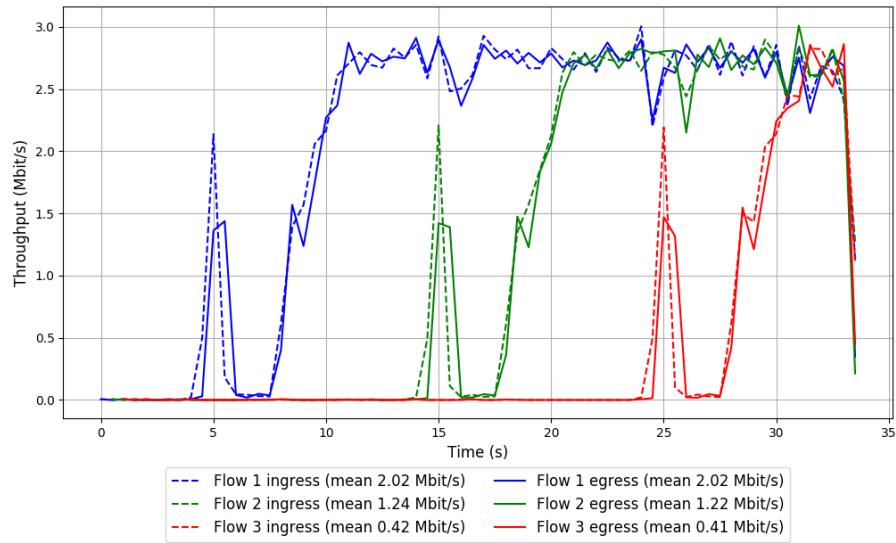


```
Run 2: Statistics of WebRTC media

Start at: 2018-01-18 02:16:17
End at: 2018-01-18 02:16:47

# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.61 Mbit/s
95th percentile per-packet one-way delay: 136.956 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 136.496 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 137.010 ms
Loss rate: 1.88%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 164.480 ms
Loss rate: 5.05%
```

Run 2: Report of WebRTC media — Data Link

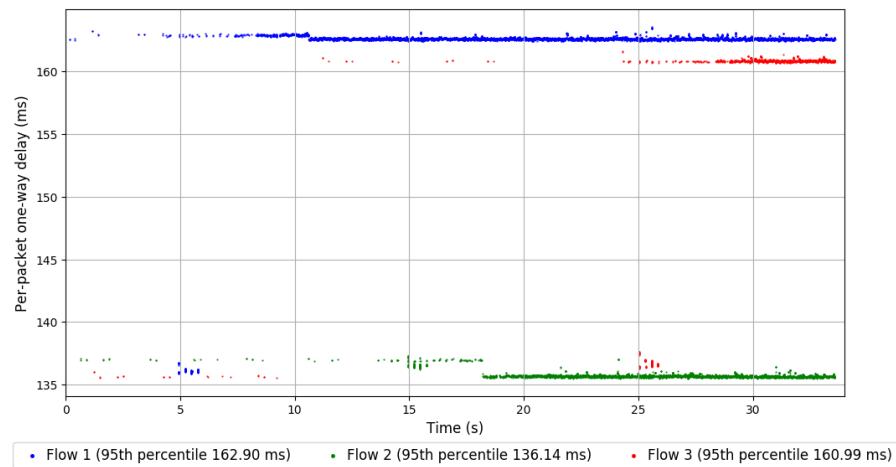
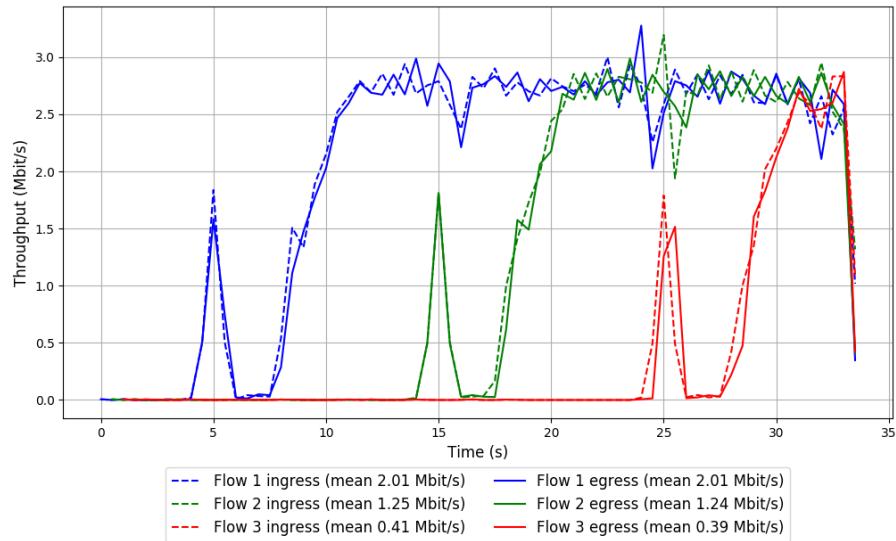


```
Run 3: Statistics of WebRTC media

Start at: 2018-01-18 02:34:48
End at: 2018-01-18 02:35:18

# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.61 Mbit/s
95th percentile per-packet one-way delay: 162.774 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 162.899 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 1.24 Mbit/s
95th percentile per-packet one-way delay: 136.140 ms
Loss rate: 1.84%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 160.985 ms
Loss rate: 5.72%
```

Run 3: Report of WebRTC media — Data Link

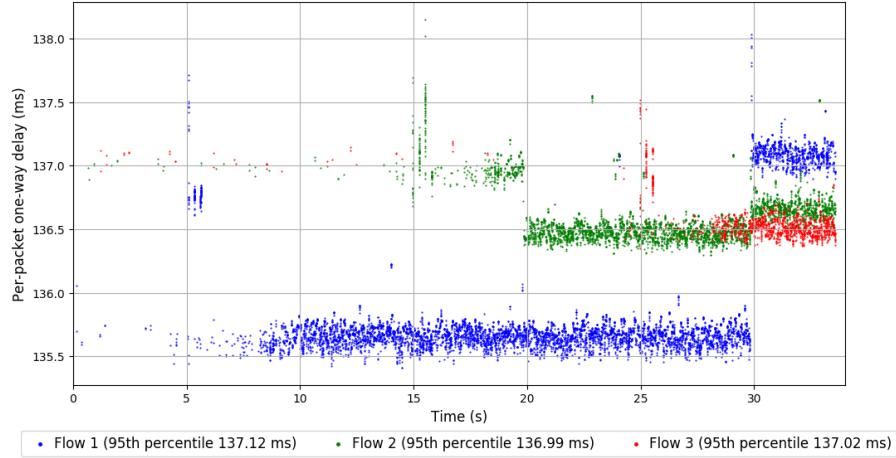
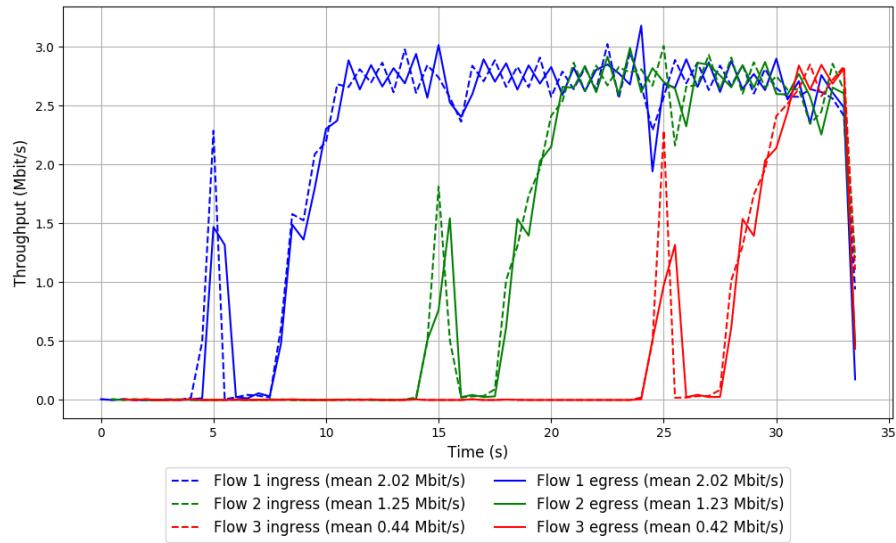


```
Run 4: Statistics of WebRTC media

Start at: 2018-01-18 02:55:09
End at: 2018-01-18 02:55:39

# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.64 Mbit/s
95th percentile per-packet one-way delay: 137.095 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 137.119 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 136.993 ms
Loss rate: 2.00%
-- Flow 3:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 137.018 ms
Loss rate: 4.60%
```

Run 4: Report of WebRTC media — Data Link



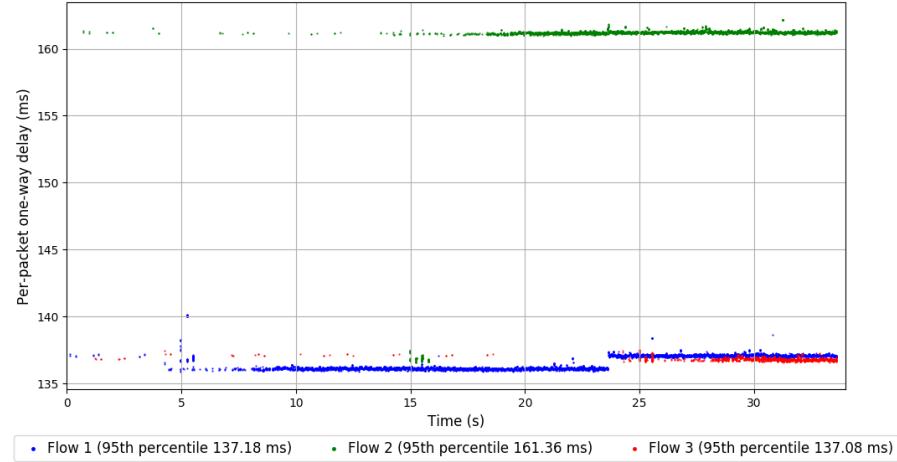
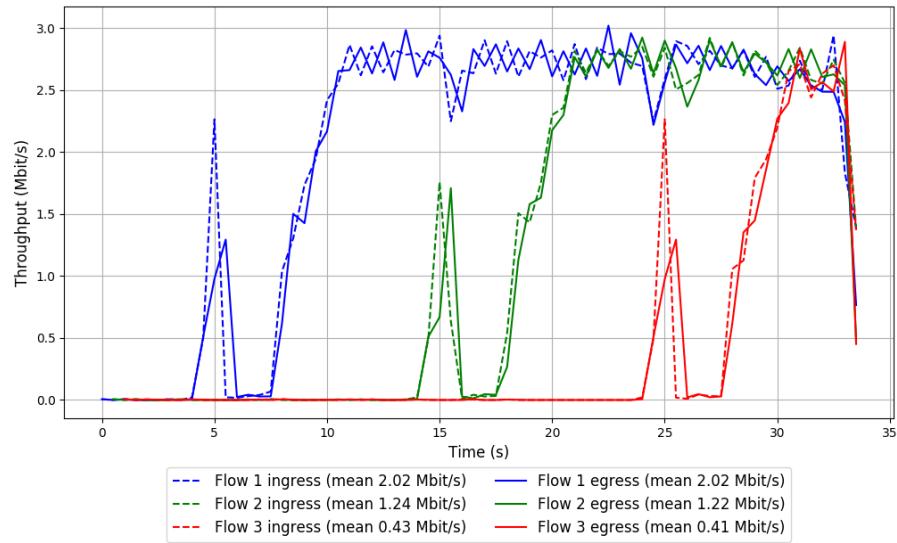
Run 5: Statistics of WebRTC media

Start at: 2018-01-18 03:14:35

End at: 2018-01-18 03:15:05

```
# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.62 Mbit/s
95th percentile per-packet one-way delay: 161.292 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 137.175 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 161.361 ms
Loss rate: 1.97%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 137.077 ms
Loss rate: 4.89%
```

Run 5: Report of WebRTC media — Data Link

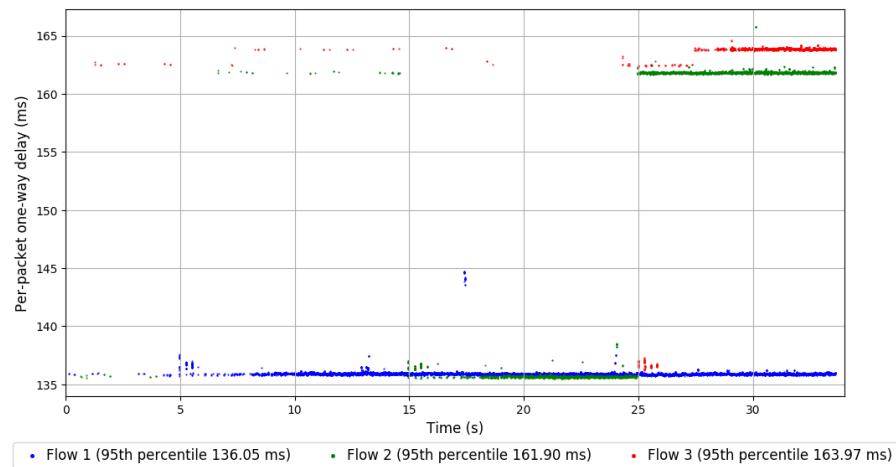
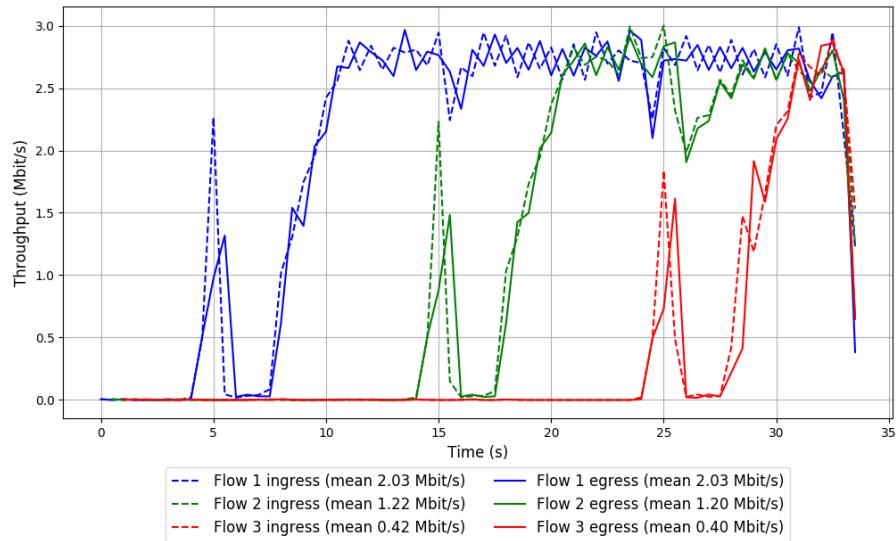


```
Run 6: Statistics of WebRTC media

Start at: 2018-01-18 03:34:22
End at: 2018-01-18 03:34:52

# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.60 Mbit/s
95th percentile per-packet one-way delay: 163.855 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 136.050 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 161.900 ms
Loss rate: 1.81%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 163.966 ms
Loss rate: 6.41%
```

Run 6: Report of WebRTC media — Data Link



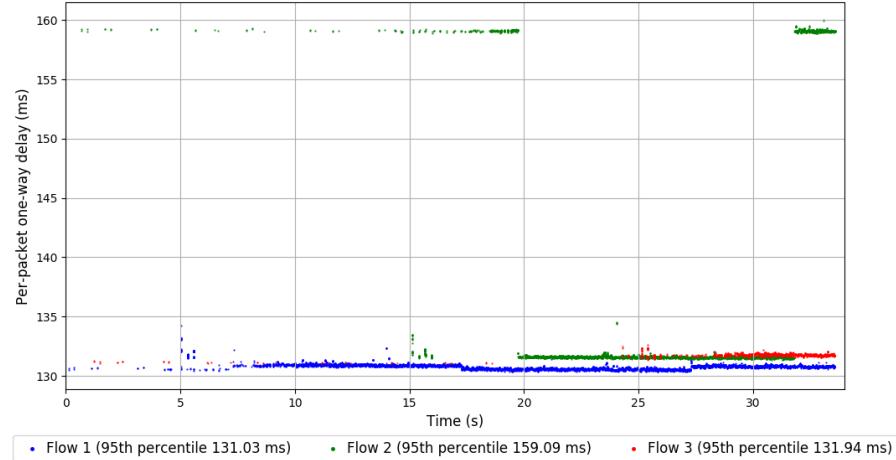
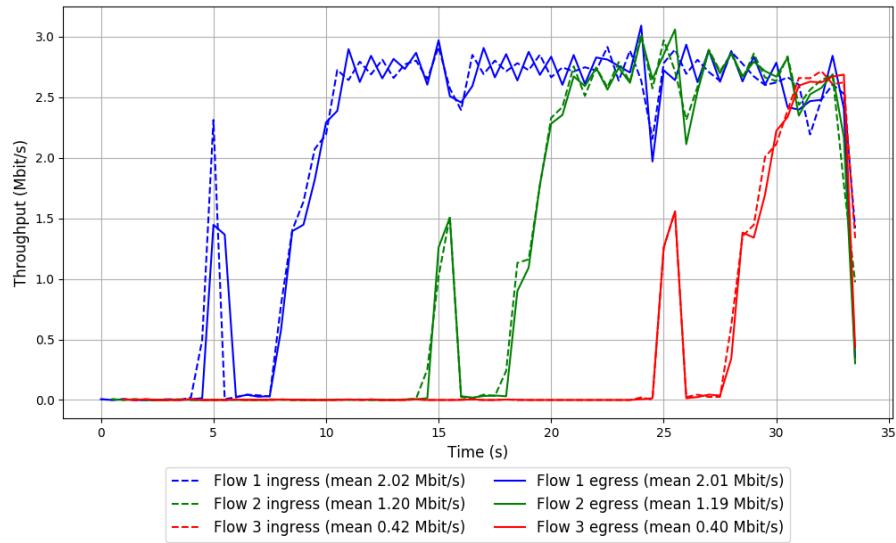
Run 7: Statistics of WebRTC media

Start at: 2018-01-18 03:53:29

End at: 2018-01-18 03:53:59

```
# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.57 Mbit/s
95th percentile per-packet one-way delay: 158.968 ms
Loss rate: 1.77%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 131.028 ms
Loss rate: 1.18%
-- Flow 2:
Average throughput: 1.19 Mbit/s
95th percentile per-packet one-way delay: 159.089 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 131.943 ms
Loss rate: 5.69%
```

Run 7: Report of WebRTC media — Data Link

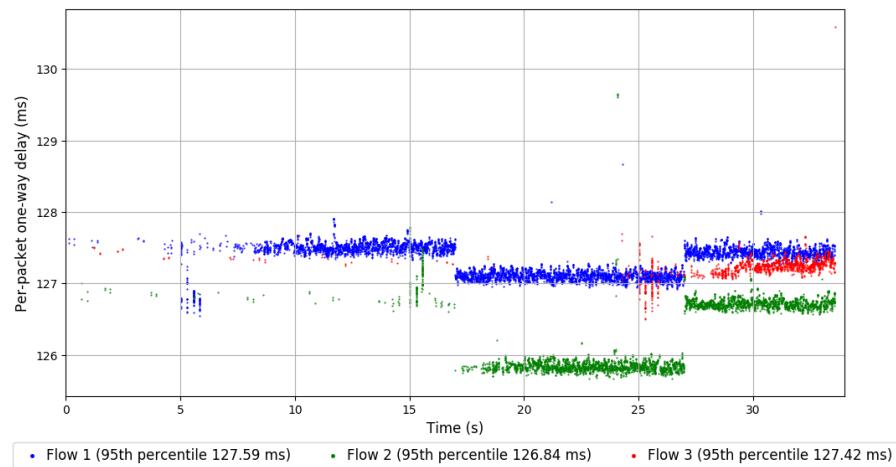
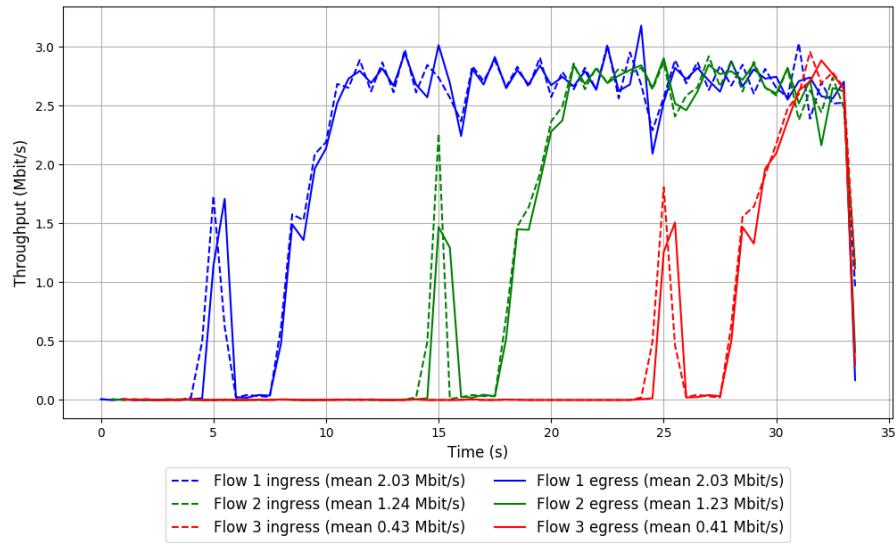


```
Run 8: Statistics of WebRTC media

Start at: 2018-01-18 04:13:40
End at: 2018-01-18 04:14:10

# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.63 Mbit/s
95th percentile per-packet one-way delay: 127.566 ms
Loss rate: 1.72%
-- Flow 1:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 127.593 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 126.837 ms
Loss rate: 1.68%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 127.417 ms
Loss rate: 5.46%
```

Run 8: Report of WebRTC media — Data Link



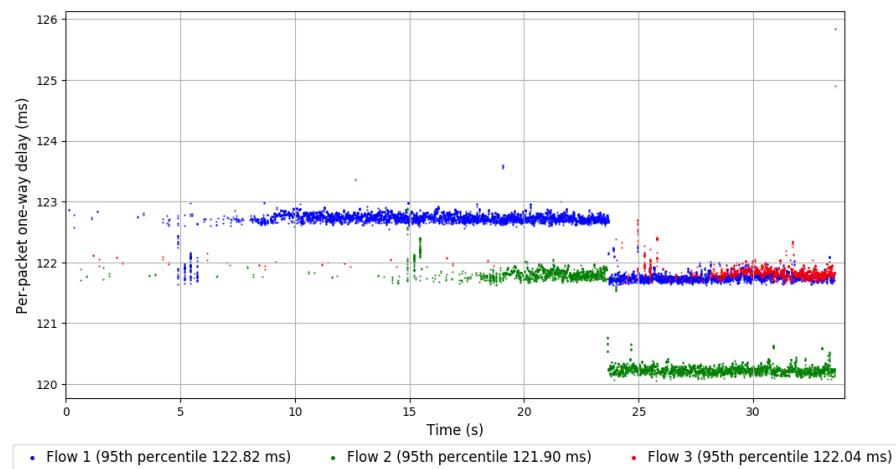
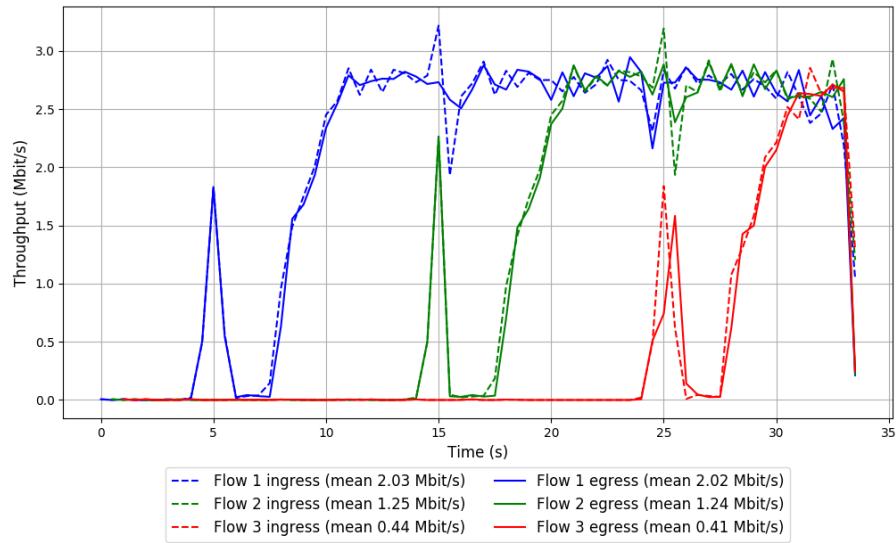
Run 9: Statistics of WebRTC media

Start at: 2018-01-18 04:33:55

End at: 2018-01-18 04:34:25

```
# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.64 Mbit/s
95th percentile per-packet one-way delay: 122.799 ms
Loss rate: 1.83%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 122.821 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 1.24 Mbit/s
95th percentile per-packet one-way delay: 121.903 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 122.038 ms
Loss rate: 6.03%
```

Run 9: Report of WebRTC media — Data Link

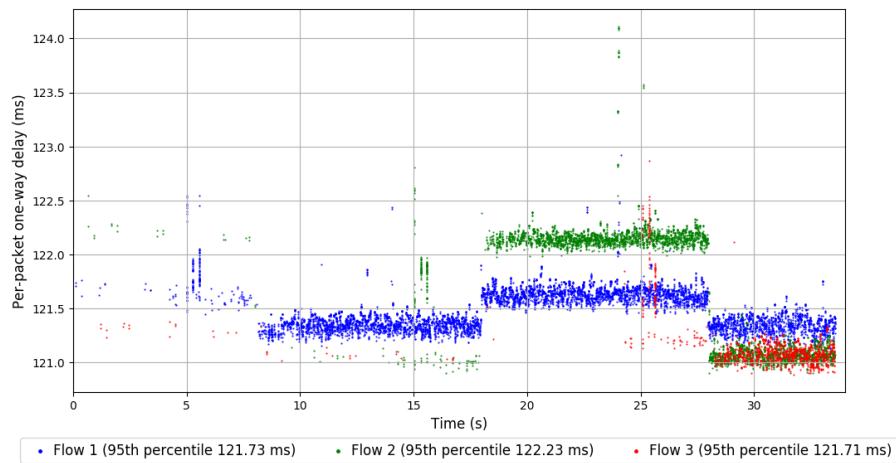
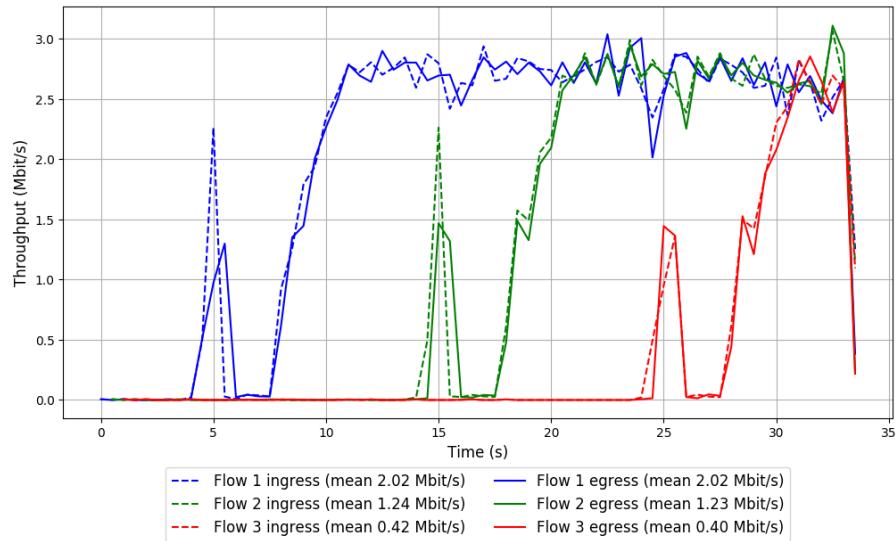


```
Run 10: Statistics of WebRTC media

Start at: 2018-01-18 04:53:41
End at: 2018-01-18 04:54:11

# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.62 Mbit/s
95th percentile per-packet one-way delay: 122.189 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 121.726 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 122.232 ms
Loss rate: 1.65%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 121.710 ms
Loss rate: 5.58%
```

Run 10: Report of WebRTC media — Data Link



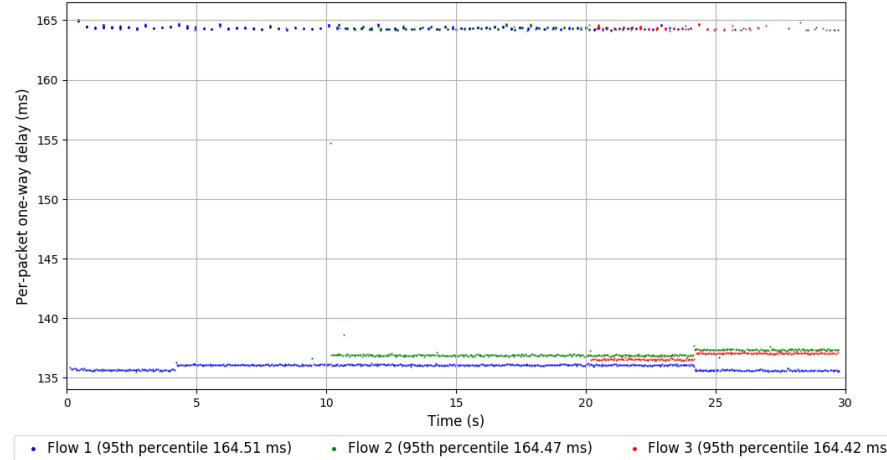
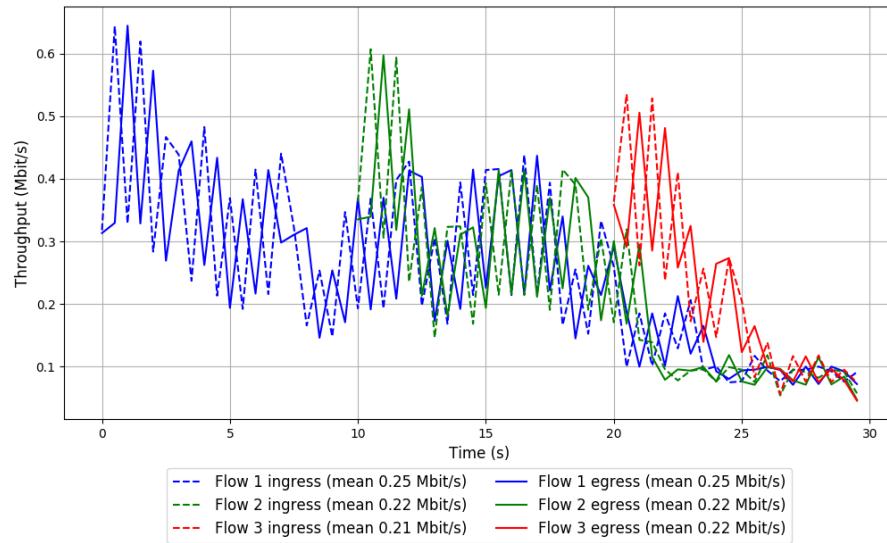
Run 1: Statistics of Sprout

Start at: 2018-01-18 02:02:01

End at: 2018-01-18 02:02:31

```
# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 164.483 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 164.510 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 164.475 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 164.421 ms
Loss rate: 1.68%
```

Run 1: Report of Sprout — Data Link



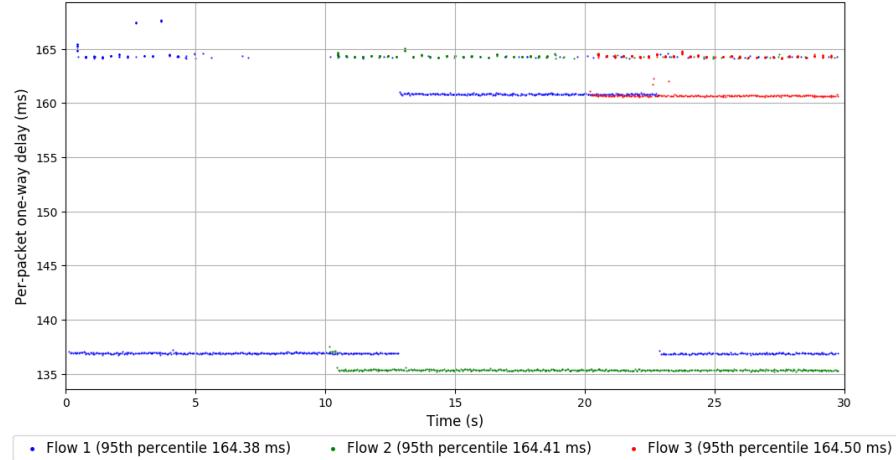
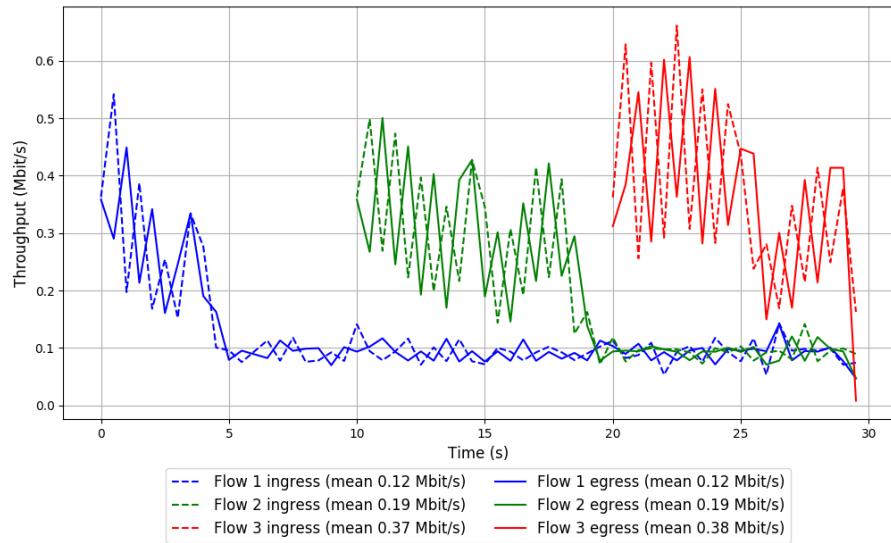
Run 2: Statistics of Sprout

Start at: 2018-01-18 02:20:02

End at: 2018-01-18 02:20:32

```
# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 164.428 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 164.376 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 164.408 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 164.503 ms
Loss rate: 2.17%
```

Run 2: Report of Sprout — Data Link



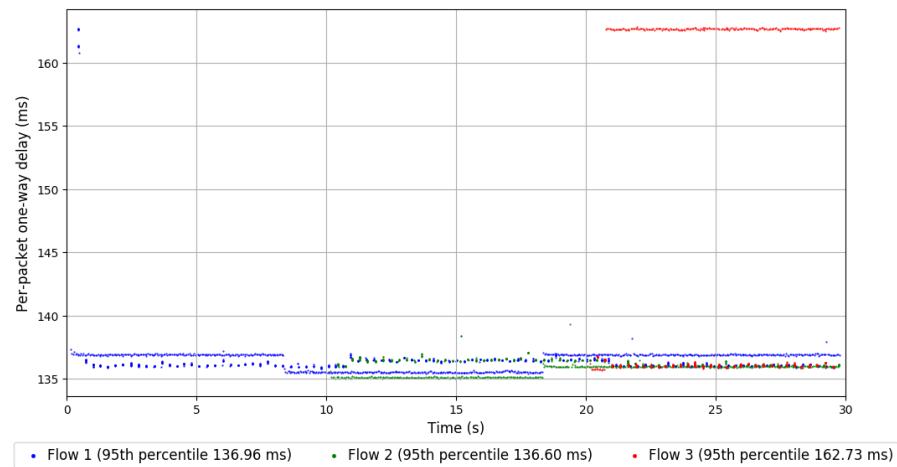
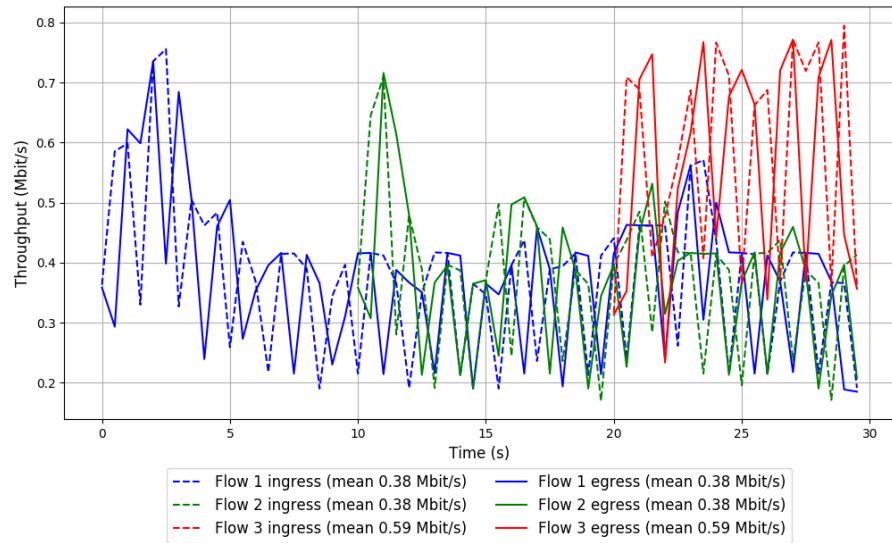
Run 3: Statistics of Sprout

Start at: 2018-01-18 02:38:44

End at: 2018-01-18 02:39:14

```
# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.82 Mbit/s
95th percentile per-packet one-way delay: 162.652 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 136.964 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 136.603 ms
Loss rate: 1.38%
-- Flow 3:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 162.732 ms
Loss rate: 3.05%
```

Run 3: Report of Sprout — Data Link



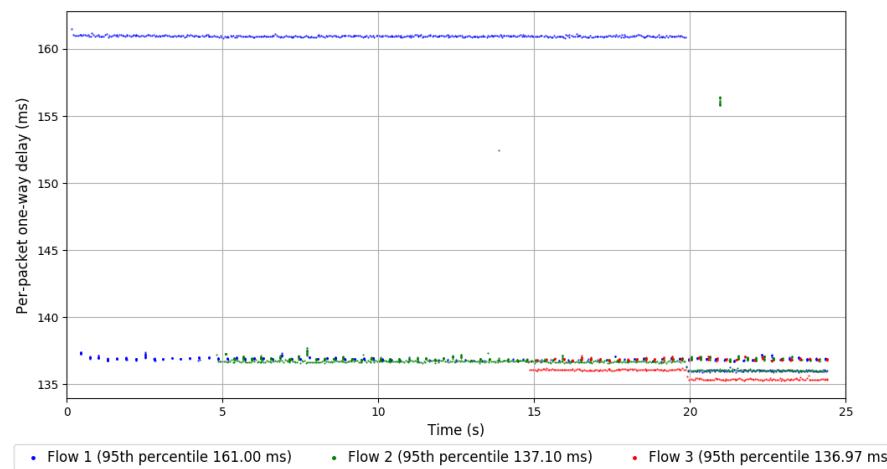
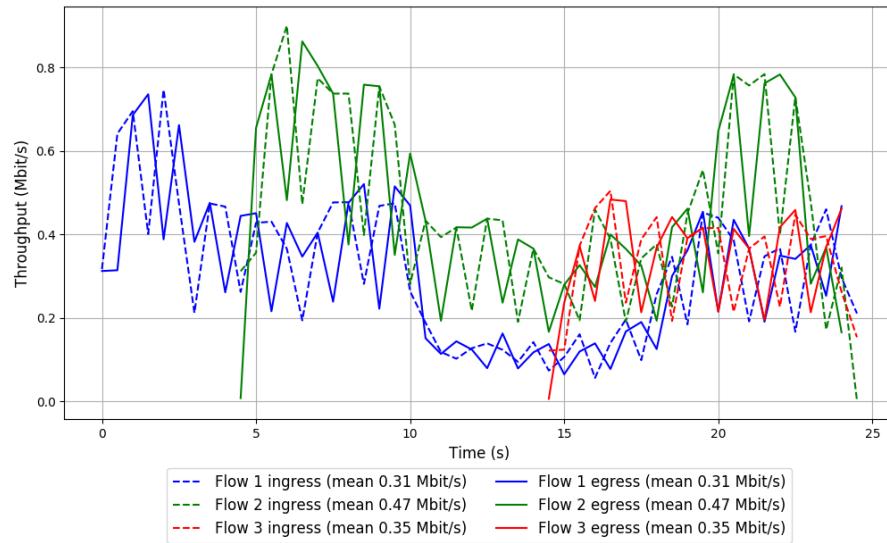
Run 4: Statistics of Sprout

Start at: 2018-01-18 02:58:57

End at: 2018-01-18 02:59:28

```
# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.83 Mbit/s
95th percentile per-packet one-way delay: 160.961 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 160.995 ms
Loss rate: 1.64%
-- Flow 2:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 137.101 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 136.971 ms
Loss rate: 2.32%
```

## Run 4: Report of Sprout — Data Link



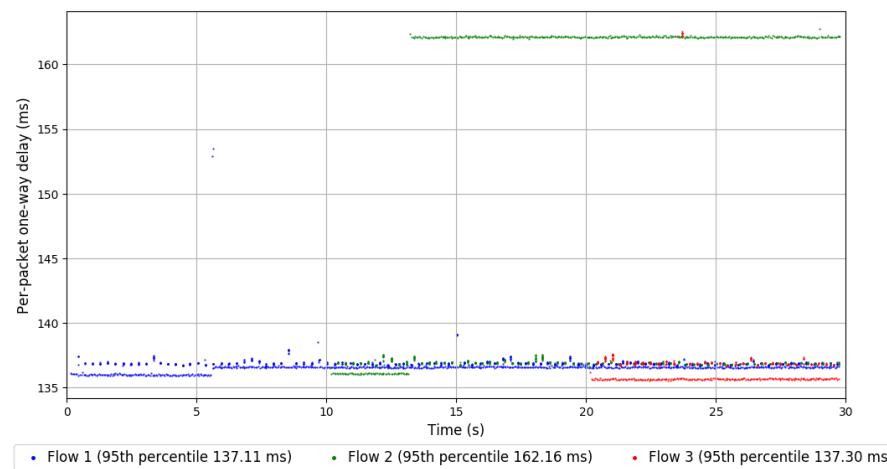
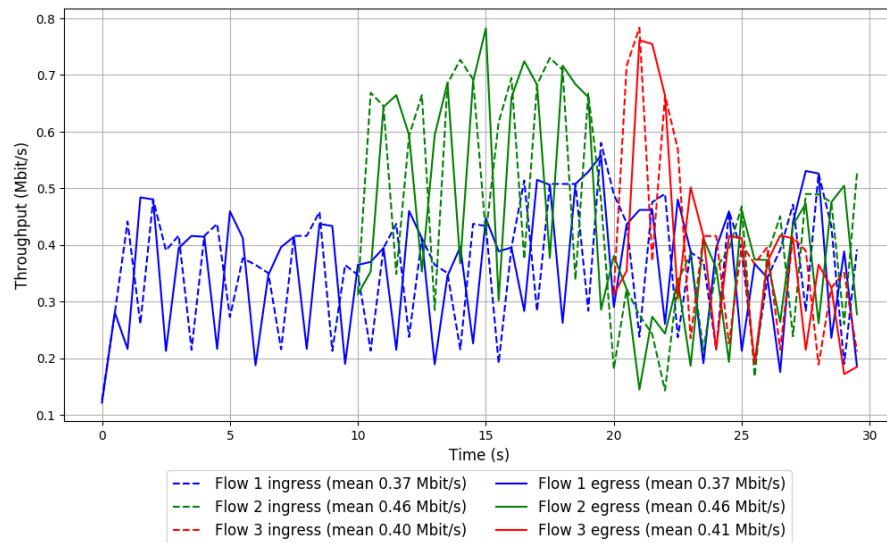
Run 5: Statistics of Sprout

Start at: 2018-01-18 03:18:20

End at: 2018-01-18 03:18:50

```
# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.80 Mbit/s
95th percentile per-packet one-way delay: 162.127 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 137.106 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 162.159 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 137.296 ms
Loss rate: 2.62%
```

Run 5: Report of Sprout — Data Link



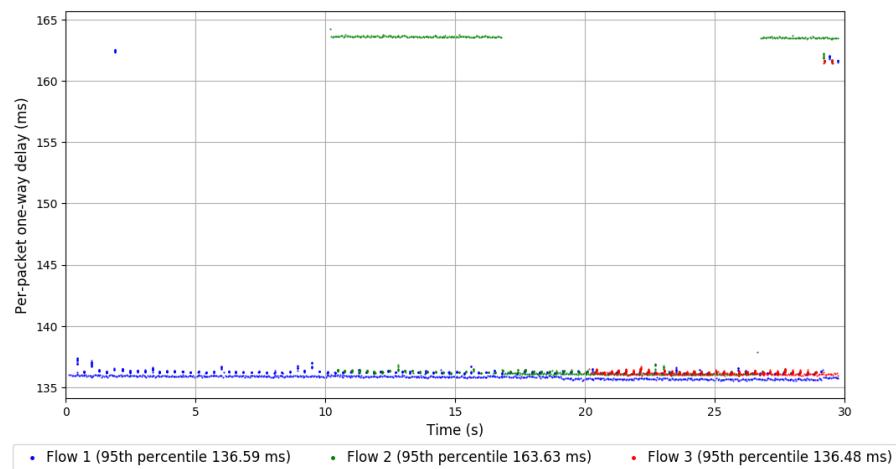
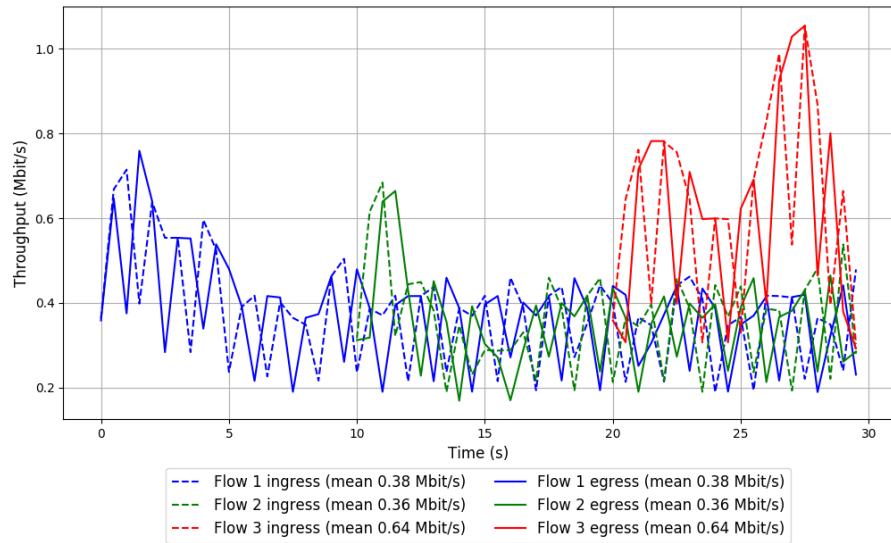
Run 6: Statistics of Sprout

Start at: 2018-01-18 03:38:06

End at: 2018-01-18 03:38:36

```
# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.82 Mbit/s
95th percentile per-packet one-way delay: 163.543 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 136.591 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 163.630 ms
Loss rate: 1.94%
-- Flow 3:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 136.483 ms
Loss rate: 2.38%
```

Run 6: Report of Sprout — Data Link



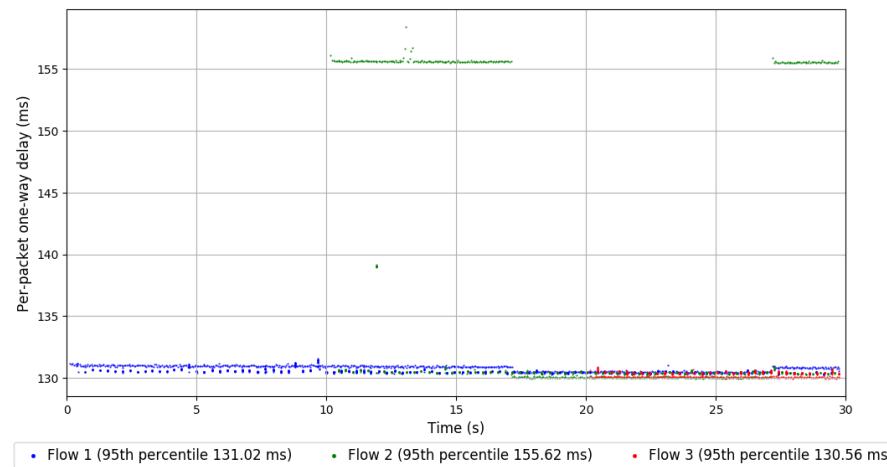
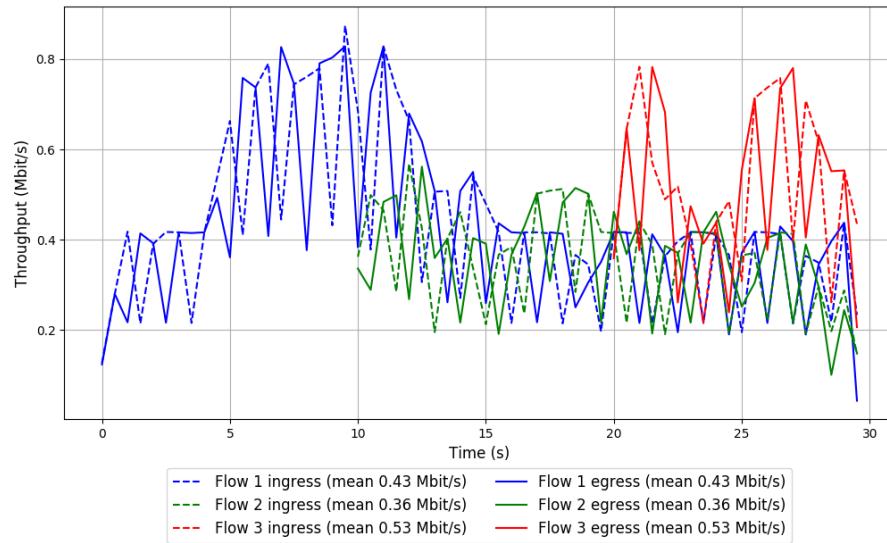
Run 7: Statistics of Sprout

Start at: 2018-01-18 03:57:18

End at: 2018-01-18 03:57:48

```
# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.84 Mbit/s
95th percentile per-packet one-way delay: 155.548 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 131.022 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 155.625 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 130.565 ms
Loss rate: 2.24%
```

Run 7: Report of Sprout — Data Link



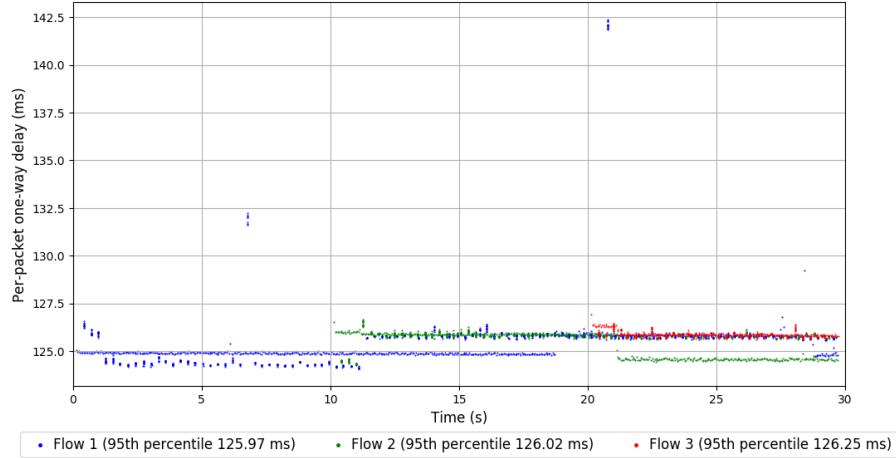
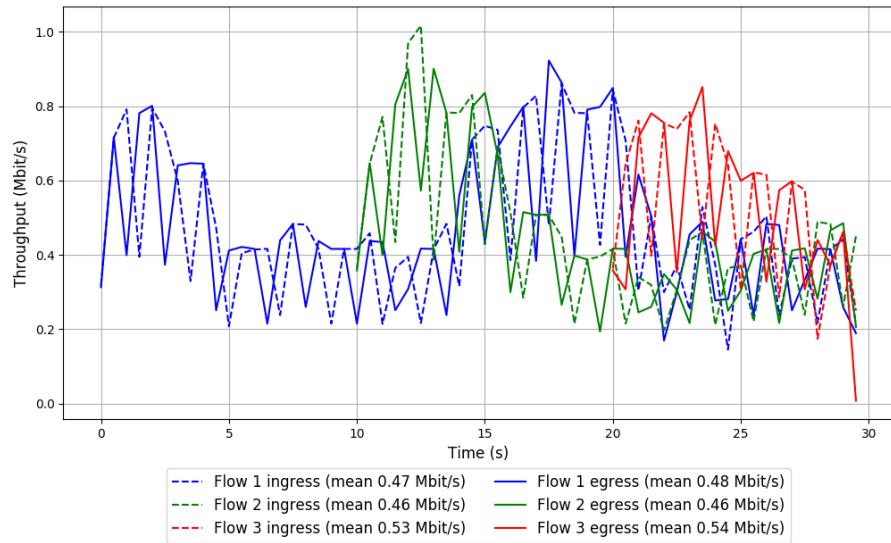
Run 8: Statistics of Sprout

Start at: 2018-01-18 04:17:34

End at: 2018-01-18 04:18:04

```
# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.96 Mbit/s
95th percentile per-packet one-way delay: 126.039 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 125.965 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 126.016 ms
Loss rate: 1.35%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 126.250 ms
Loss rate: 2.33%
```

Run 8: Report of Sprout — Data Link



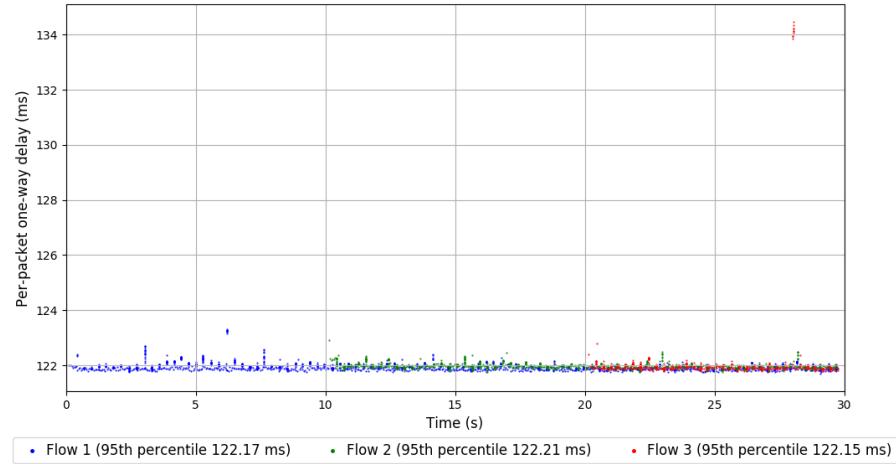
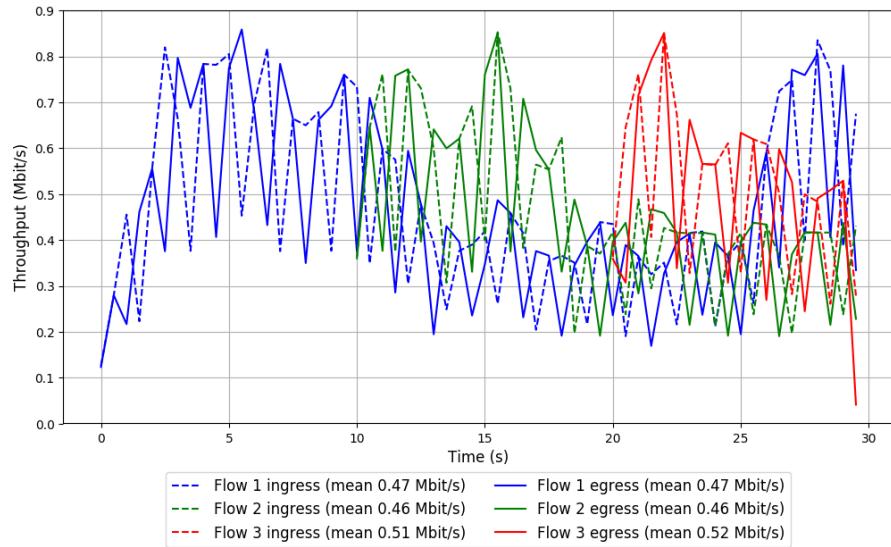
Run 9: Statistics of Sprout

Start at: 2018-01-18 04:37:45

End at: 2018-01-18 04:38:15

```
# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.94 Mbit/s
95th percentile per-packet one-way delay: 122.182 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 122.165 ms
Loss rate: 1.22%
-- Flow 2:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 122.208 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 122.151 ms
Loss rate: 2.38%
```

Run 9: Report of Sprout — Data Link



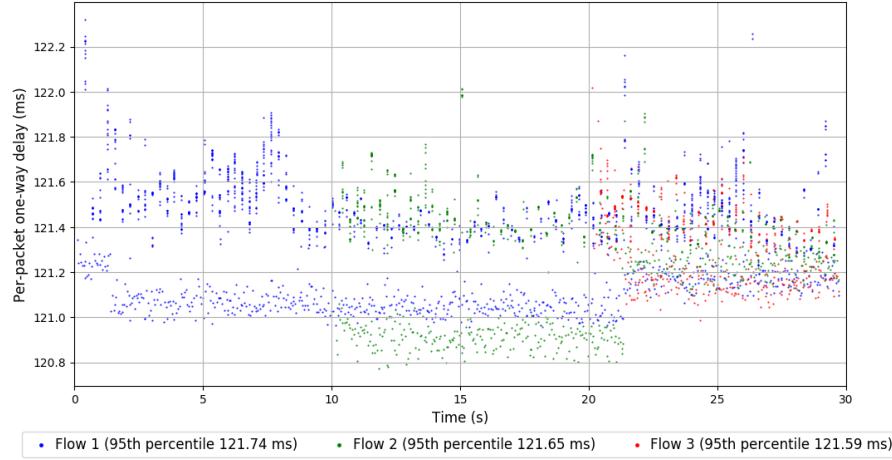
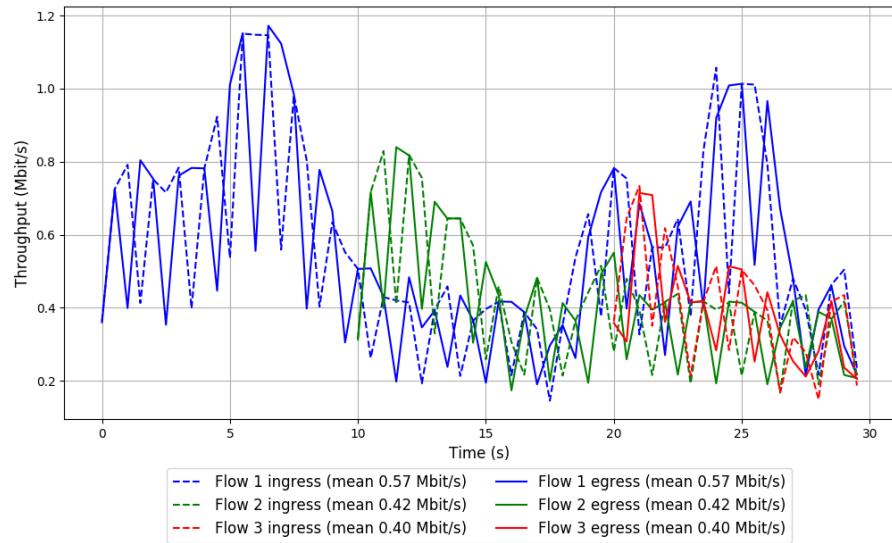
Run 10: Statistics of Sprout

Start at: 2018-01-18 04:57:34

End at: 2018-01-18 04:58:04

```
# Below is generated by plot.py at 2018-01-18 08:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.97 Mbit/s
95th percentile per-packet one-way delay: 121.707 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 121.740 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 121.653 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 121.593 ms
Loss rate: 2.33%
```

Run 10: Report of Sprout — Data Link



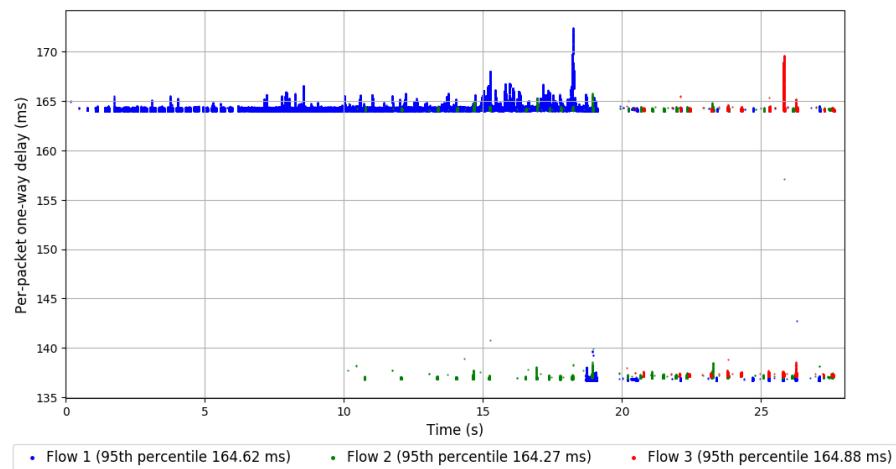
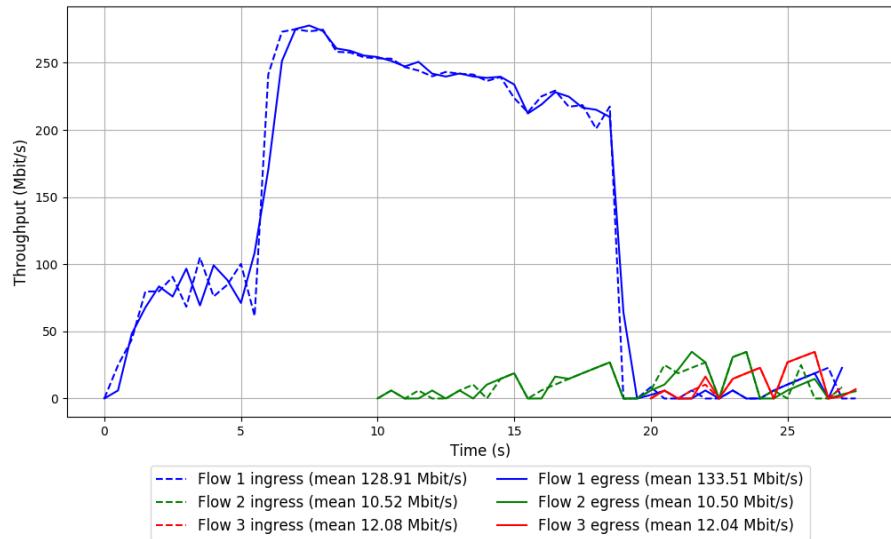
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-18 02:03:44

End at: 2018-01-18 02:04:14

```
# Below is generated by plot.py at 2018-01-18 08:47:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 141.04 Mbit/s
95th percentile per-packet one-way delay: 164.603 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 133.51 Mbit/s
95th percentile per-packet one-way delay: 164.618 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 10.50 Mbit/s
95th percentile per-packet one-way delay: 164.273 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.04 Mbit/s
95th percentile per-packet one-way delay: 164.883 ms
Loss rate: 0.00%
```

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



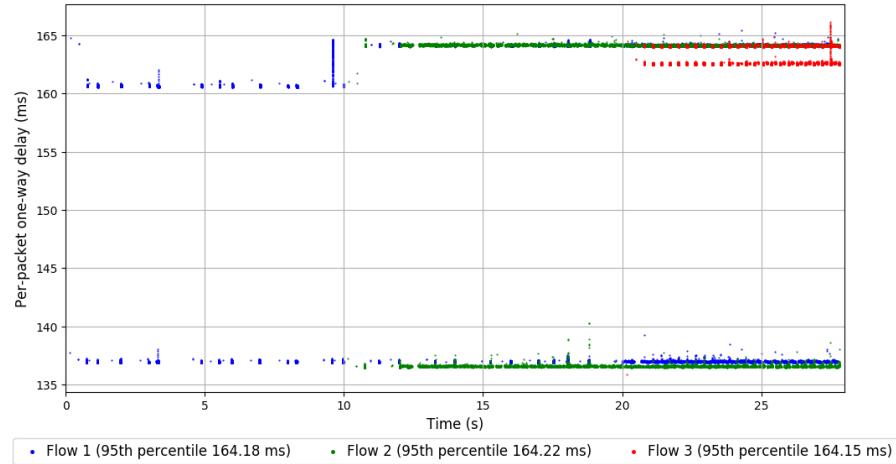
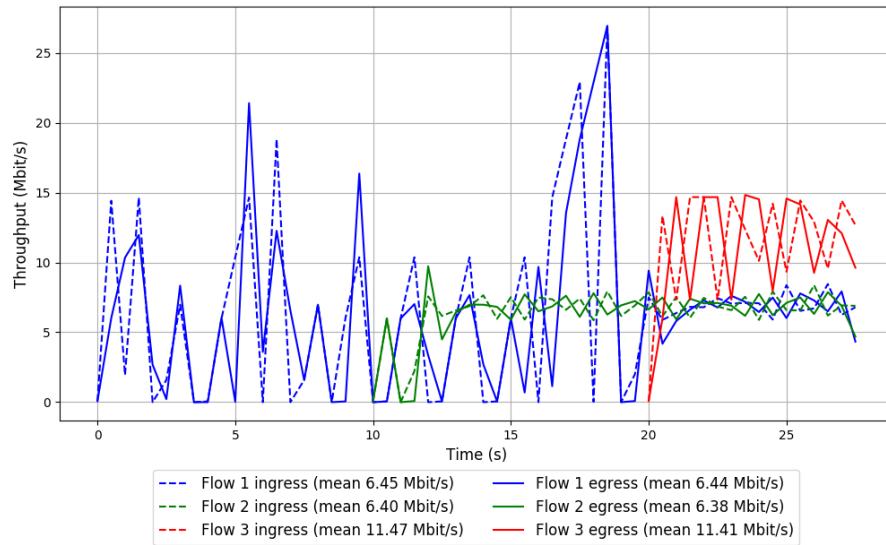
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-18 02:21:43

End at: 2018-01-18 02:22:13

```
# Below is generated by plot.py at 2018-01-18 08:47:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.65 Mbit/s
95th percentile per-packet one-way delay: 164.198 ms
Loss rate: 2.05%
-- Flow 1:
Average throughput: 6.44 Mbit/s
95th percentile per-packet one-way delay: 164.184 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 6.38 Mbit/s
95th percentile per-packet one-way delay: 164.223 ms
Loss rate: 1.79%
-- Flow 3:
Average throughput: 11.41 Mbit/s
95th percentile per-packet one-way delay: 164.145 ms
Loss rate: 4.03%
```

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

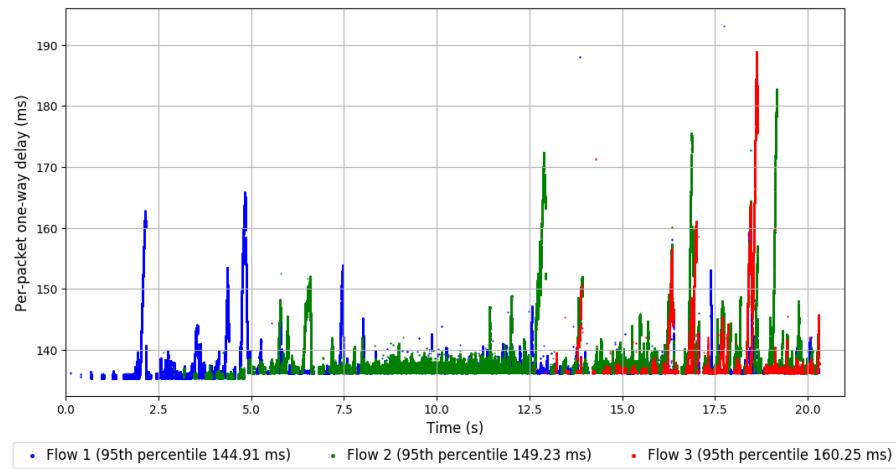
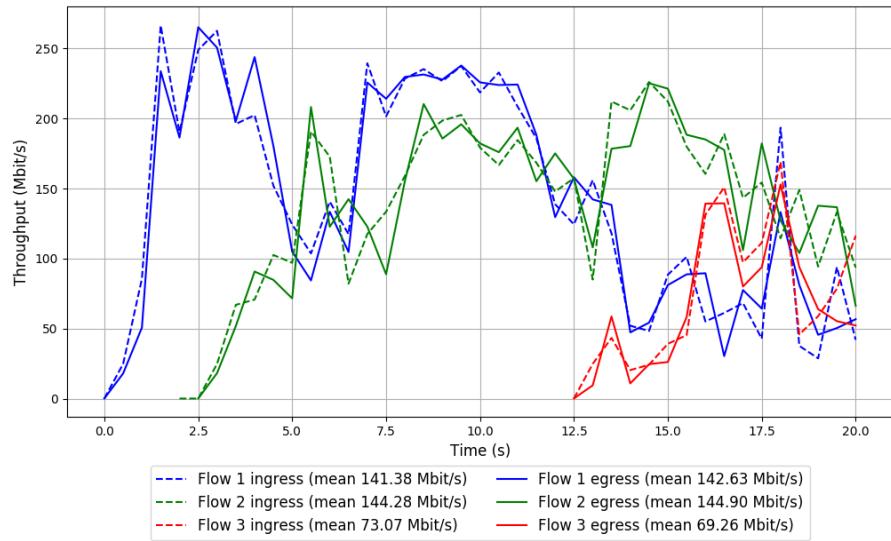


Run 3: Statistics of TaoVA-100x

Start at: 2018-01-18 02:40:31

End at: 2018-01-18 02:41:01

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

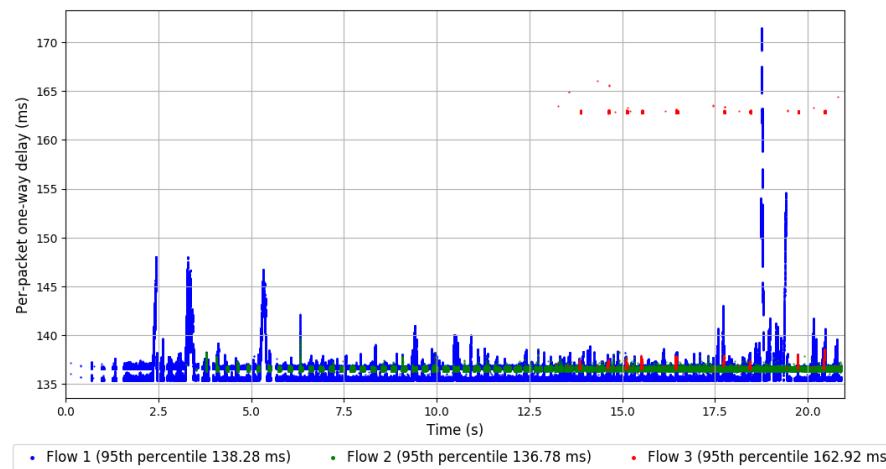
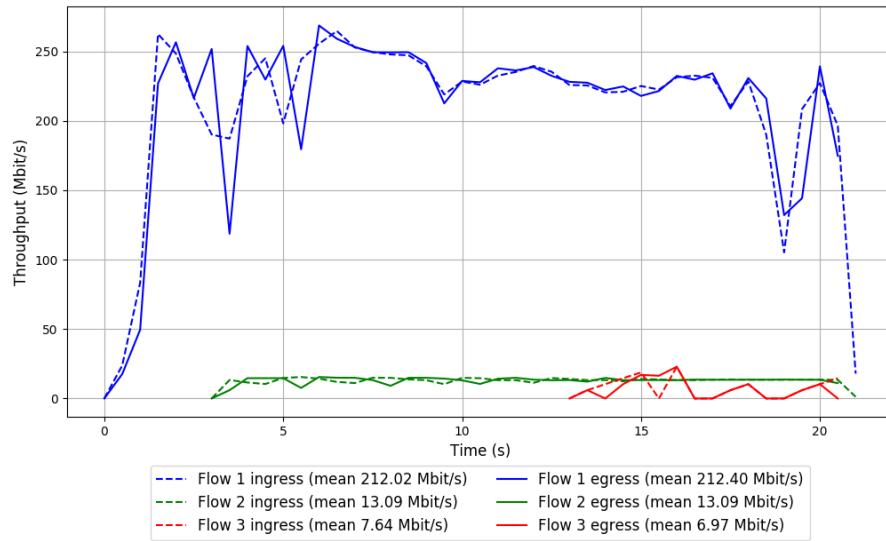


Run 4: Statistics of TaoVA-100x

Start at: 2018-01-18 03:00:52

End at: 2018-01-18 03:01:22

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



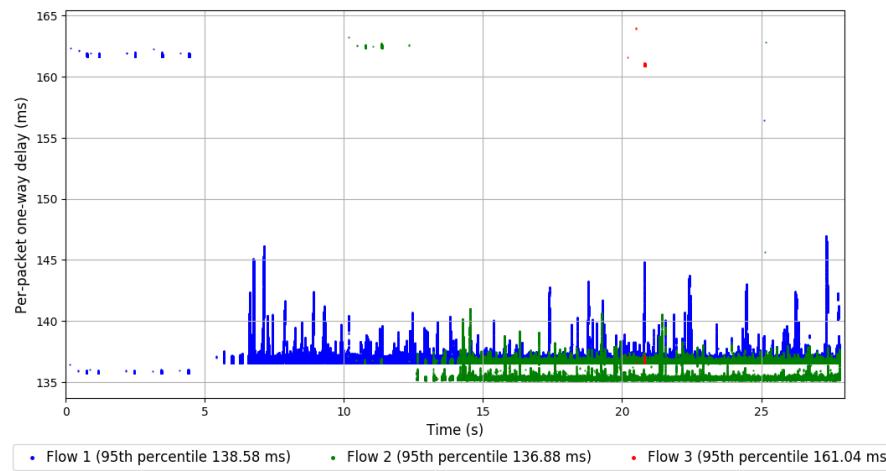
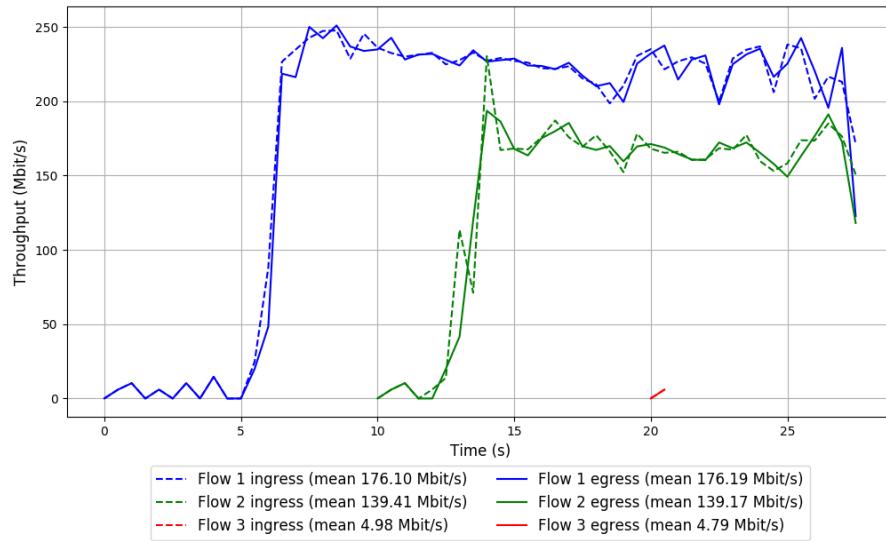
Run 5: Statistics of TaoVA-100x

Start at: 2018-01-18 03:20:08

End at: 2018-01-18 03:20:38

```
# Below is generated by plot.py at 2018-01-18 08:52:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 265.15 Mbit/s
95th percentile per-packet one-way delay: 137.945 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 176.19 Mbit/s
95th percentile per-packet one-way delay: 138.584 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 139.17 Mbit/s
95th percentile per-packet one-way delay: 136.876 ms
Loss rate: 1.64%
-- Flow 3:
Average throughput: 4.79 Mbit/s
95th percentile per-packet one-way delay: 161.041 ms
Loss rate: 0.00%
```

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

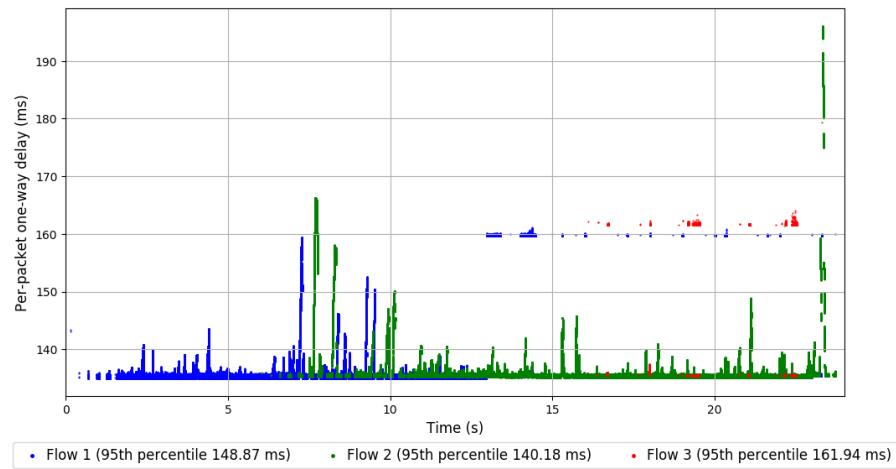
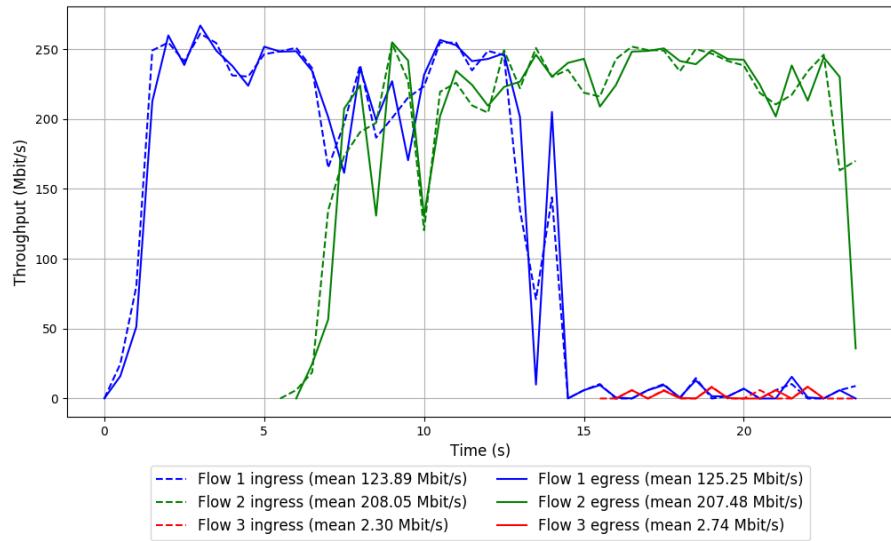


Run 6: Statistics of TaoVA-100x

Start at: 2018-01-18 03:39:54

End at: 2018-01-18 03:40:24

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

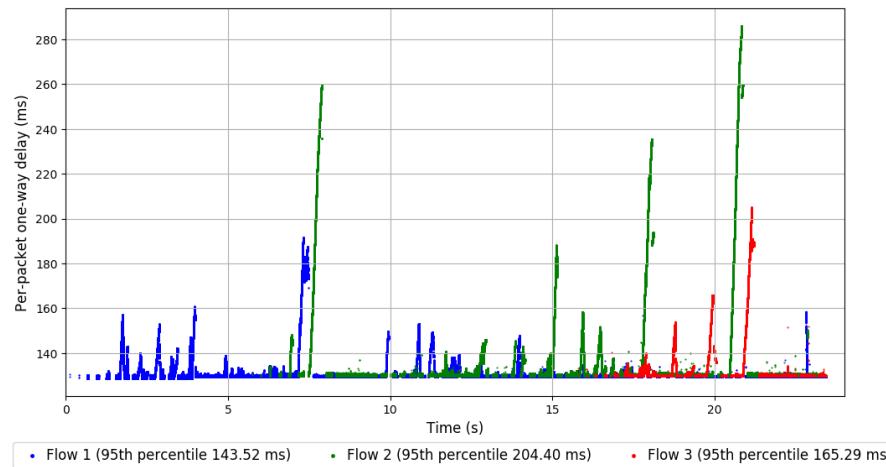
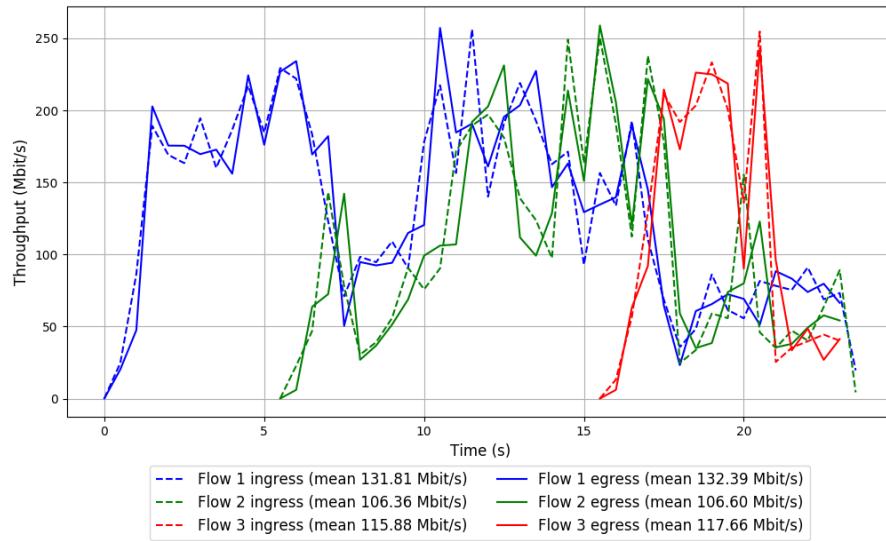


Run 7: Statistics of TaoVA-100x

Start at: 2018-01-18 03:59:12

End at: 2018-01-18 03:59:42

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



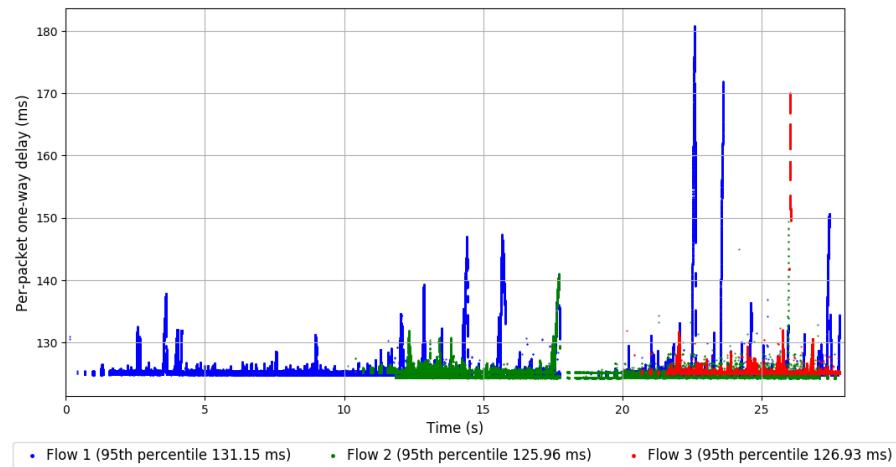
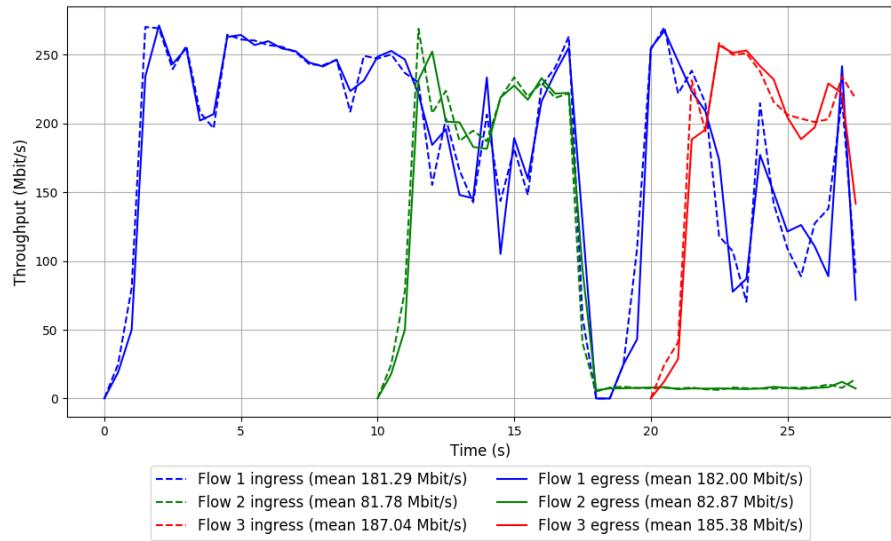
Run 8: Statistics of TaoVA-100x

Start at: 2018-01-18 04:19:21

End at: 2018-01-18 04:19:51

```
# Below is generated by plot.py at 2018-01-18 08:53:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 285.82 Mbit/s
95th percentile per-packet one-way delay: 129.366 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 182.00 Mbit/s
95th percentile per-packet one-way delay: 131.149 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 82.87 Mbit/s
95th percentile per-packet one-way delay: 125.961 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 185.38 Mbit/s
95th percentile per-packet one-way delay: 126.926 ms
Loss rate: 4.28%
```

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

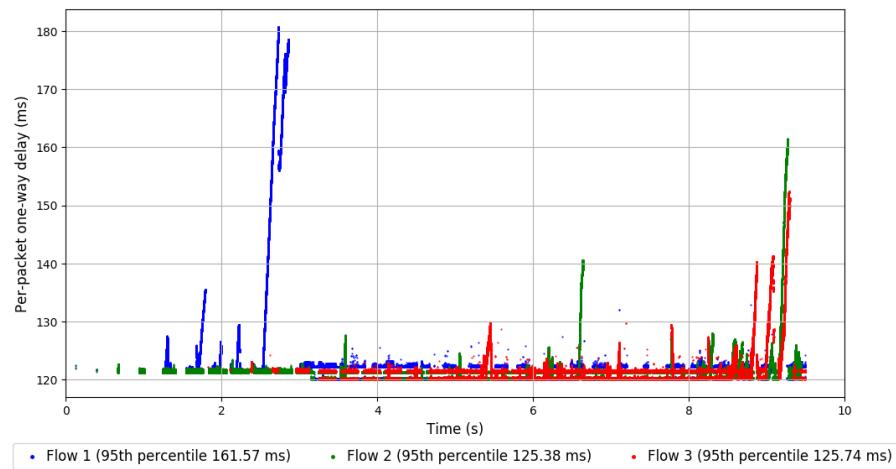
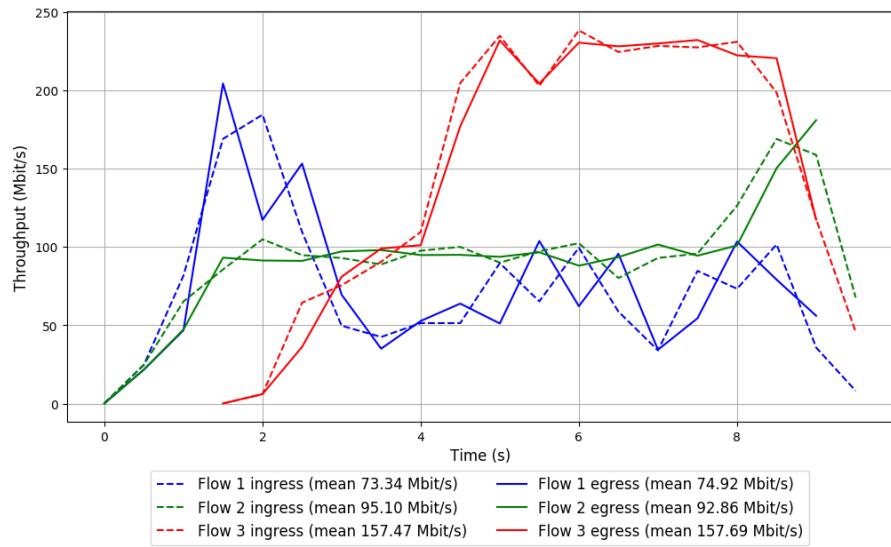


Run 9: Statistics of TaoVA-100x

Start at: 2018-01-18 04:39:32

End at: 2018-01-18 04:40:02

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



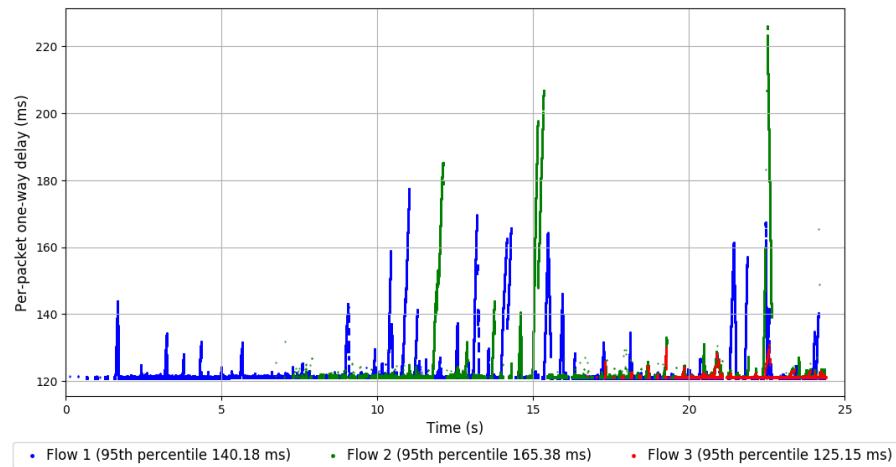
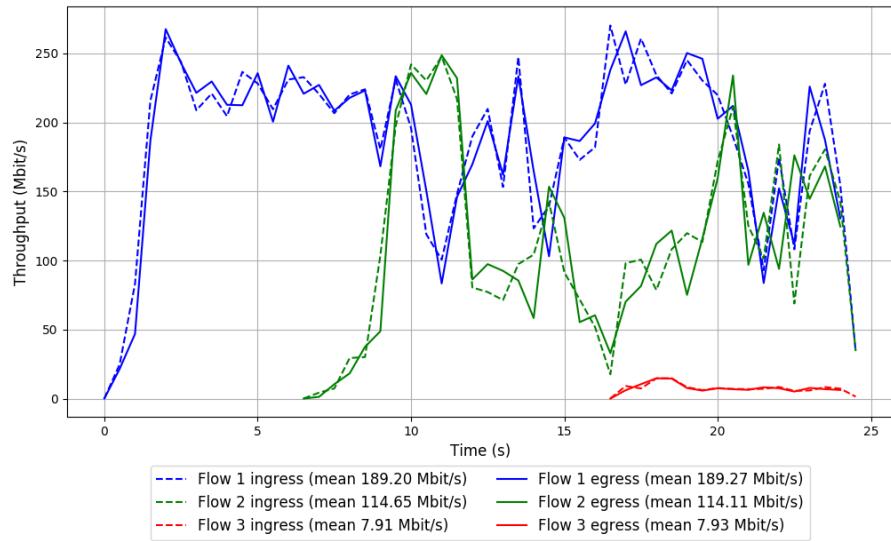
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-18 04:59:22

End at: 2018-01-18 04:59:52

```
# Below is generated by plot.py at 2018-01-18 08:55:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 274.36 Mbit/s
95th percentile per-packet one-way delay: 144.474 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 189.27 Mbit/s
95th percentile per-packet one-way delay: 140.180 ms
Loss rate: 1.30%
-- Flow 2:
Average throughput: 114.11 Mbit/s
95th percentile per-packet one-way delay: 165.376 ms
Loss rate: 2.21%
-- Flow 3:
Average throughput: 7.93 Mbit/s
95th percentile per-packet one-way delay: 125.153 ms
Loss rate: 3.39%
```

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

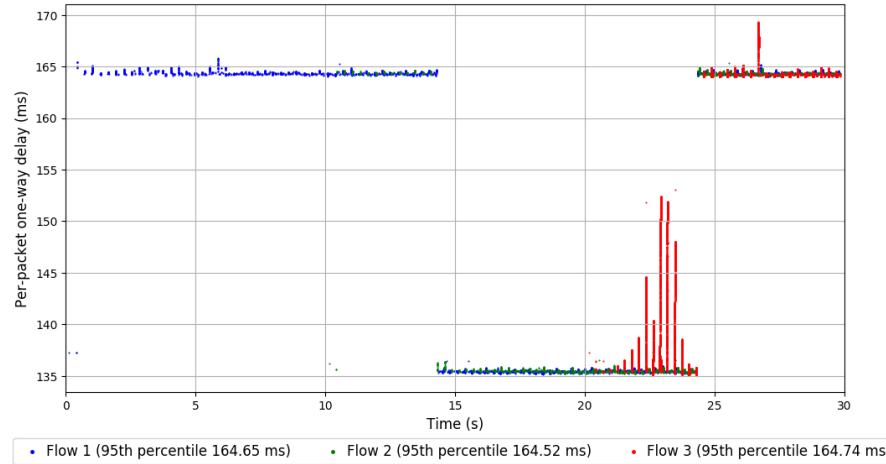
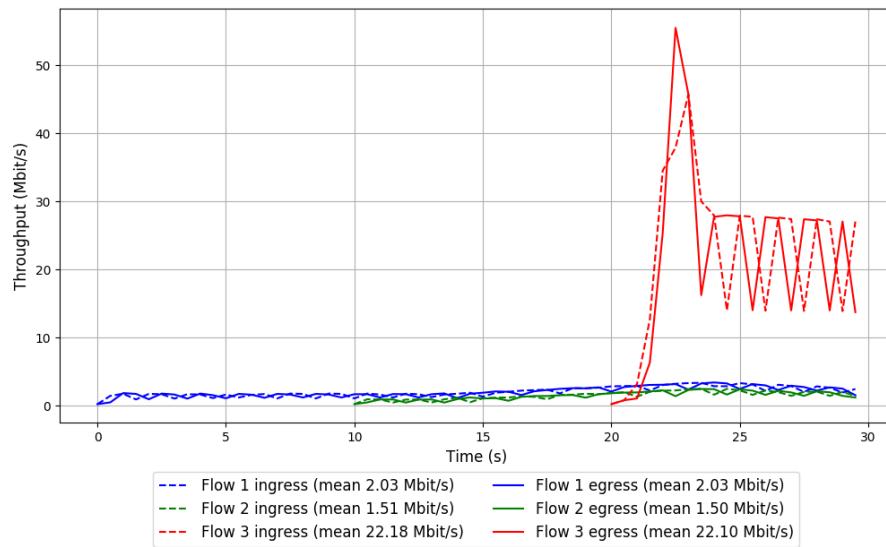


```
Run 1: Statistics of TCP Vegas

Start at: 2018-01-18 02:01:11
End at: 2018-01-18 02:01:41

# Below is generated by plot.py at 2018-01-18 08:55:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.22 Mbit/s
95th percentile per-packet one-way delay: 164.695 ms
Loss rate: 2.58%
-- Flow 1:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 164.645 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: 164.522 ms
Loss rate: 1.83%
-- Flow 3:
Average throughput: 22.10 Mbit/s
95th percentile per-packet one-way delay: 164.738 ms
Loss rate: 3.08%
```

Run 1: Report of TCP Vegas — Data Link



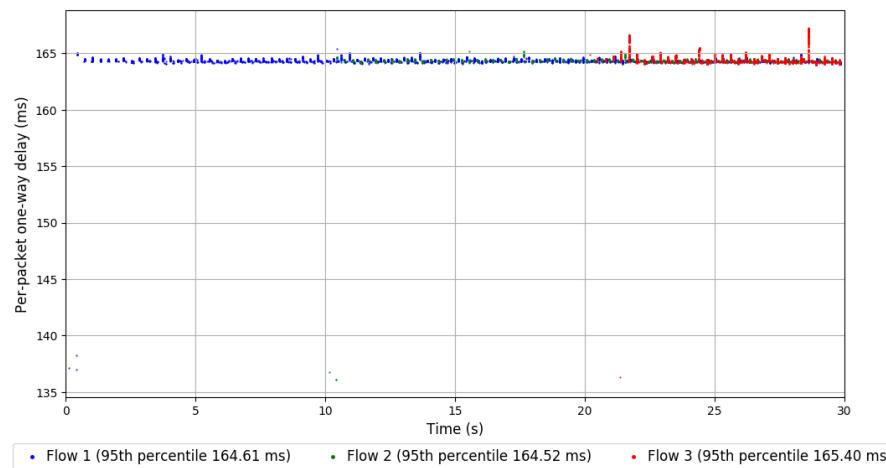
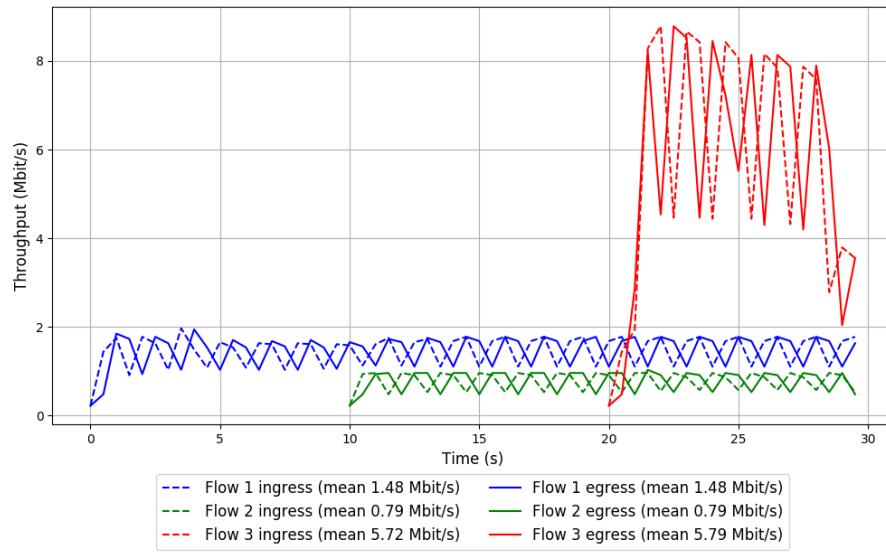
Run 2: Statistics of TCP Vegas

Start at: 2018-01-18 02:19:12

End at: 2018-01-18 02:19:42

```
# Below is generated by plot.py at 2018-01-18 08:55:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 164.975 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: 164.612 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 0.79 Mbit/s
95th percentile per-packet one-way delay: 164.519 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 5.79 Mbit/s
95th percentile per-packet one-way delay: 165.396 ms
Loss rate: 1.82%
```

Run 2: Report of TCP Vegas — Data Link



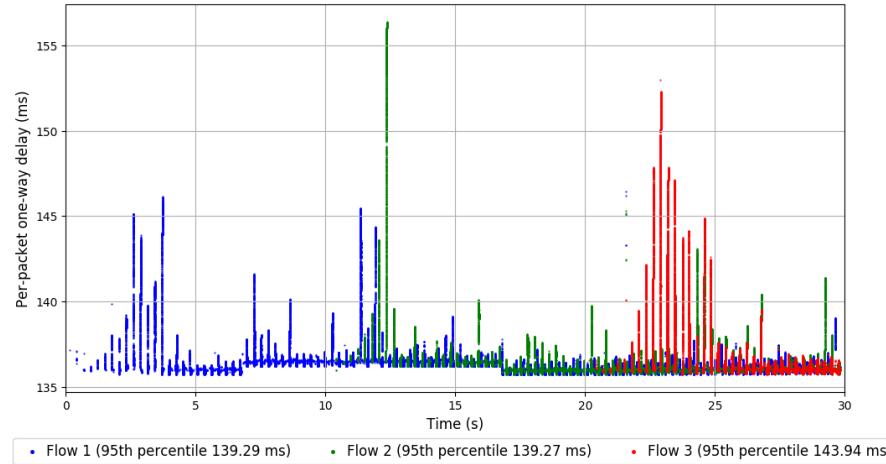
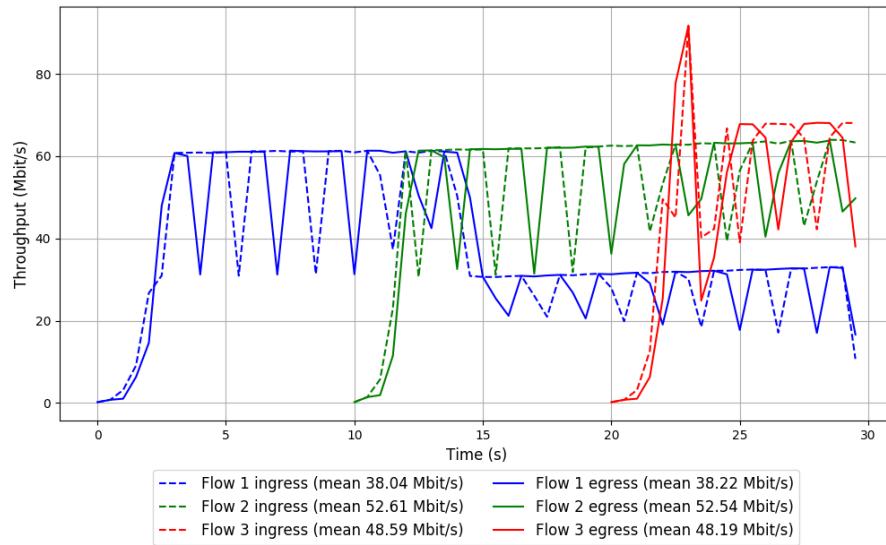
Run 3: Statistics of TCP Vegas

Start at: 2018-01-18 02:37:48

End at: 2018-01-18 02:38:18

```
# Below is generated by plot.py at 2018-01-18 08:55:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.73 Mbit/s
95th percentile per-packet one-way delay: 140.351 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 38.22 Mbit/s
95th percentile per-packet one-way delay: 139.290 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 52.54 Mbit/s
95th percentile per-packet one-way delay: 139.271 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 48.19 Mbit/s
95th percentile per-packet one-way delay: 143.942 ms
Loss rate: 3.54%
```

Run 3: Report of TCP Vegas — Data Link



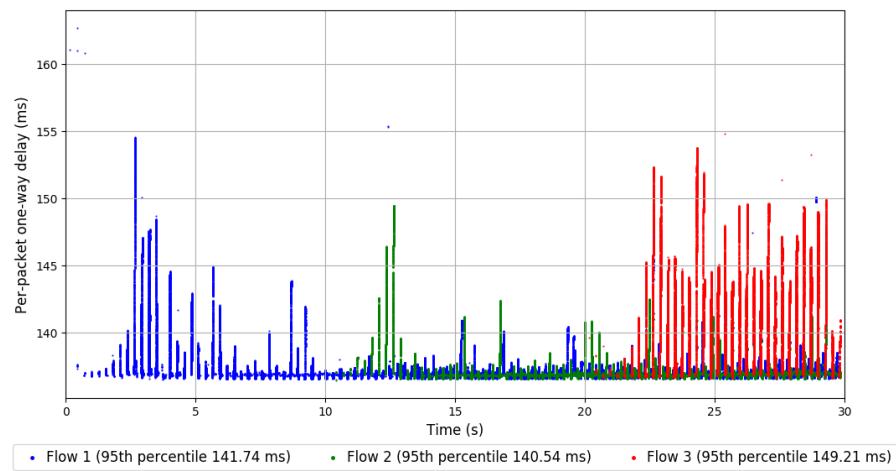
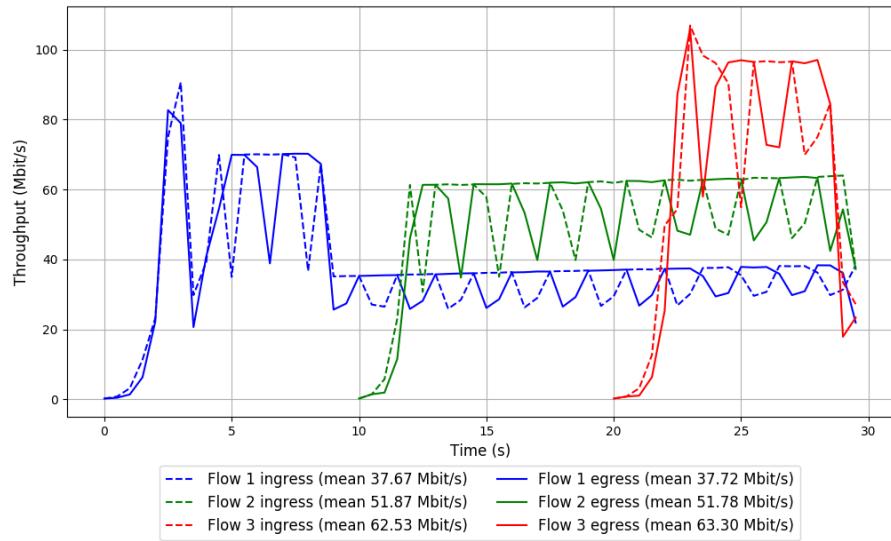
Run 4: Statistics of TCP Vegas

Start at: 2018-01-18 02:58:02

End at: 2018-01-18 02:58:32

```
# Below is generated by plot.py at 2018-01-18 08:55:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.69 Mbit/s
95th percentile per-packet one-way delay: 145.763 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 37.72 Mbit/s
95th percentile per-packet one-way delay: 141.741 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 51.78 Mbit/s
95th percentile per-packet one-way delay: 140.536 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 63.30 Mbit/s
95th percentile per-packet one-way delay: 149.206 ms
Loss rate: 1.57%
```

Run 4: Report of TCP Vegas — Data Link



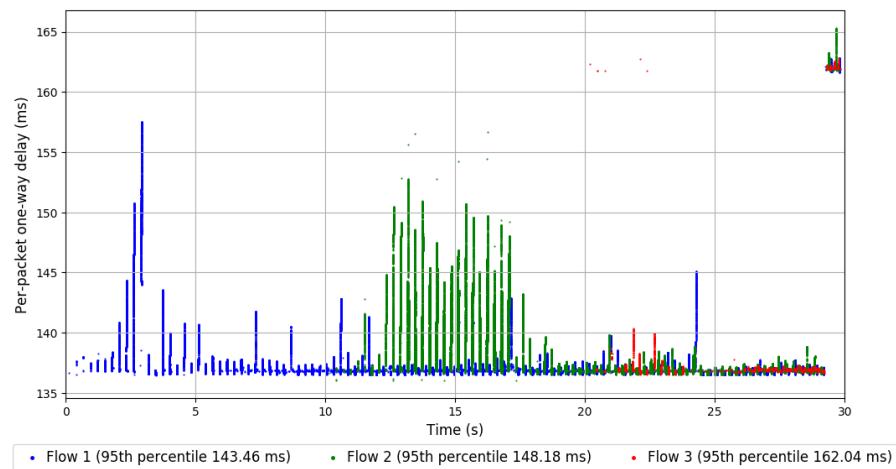
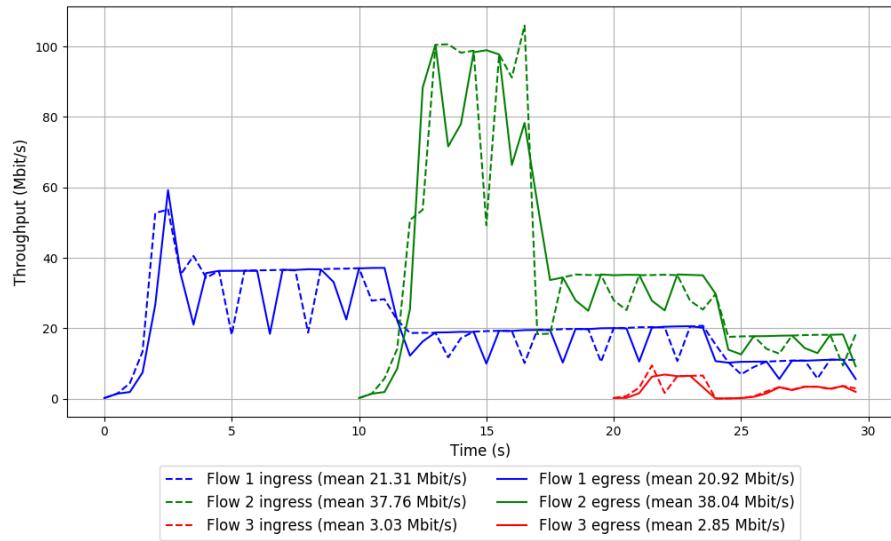
Run 5: Statistics of TCP Vegas

Start at: 2018-01-18 03:17:26

End at: 2018-01-18 03:17:56

```
# Below is generated by plot.py at 2018-01-18 08:55:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 46.96 Mbit/s
95th percentile per-packet one-way delay: 147.554 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 20.92 Mbit/s
95th percentile per-packet one-way delay: 143.458 ms
Loss rate: 2.72%
-- Flow 2:
Average throughput: 38.04 Mbit/s
95th percentile per-packet one-way delay: 148.178 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 2.85 Mbit/s
95th percentile per-packet one-way delay: 162.043 ms
Loss rate: 8.62%
```

Run 5: Report of TCP Vegas — Data Link



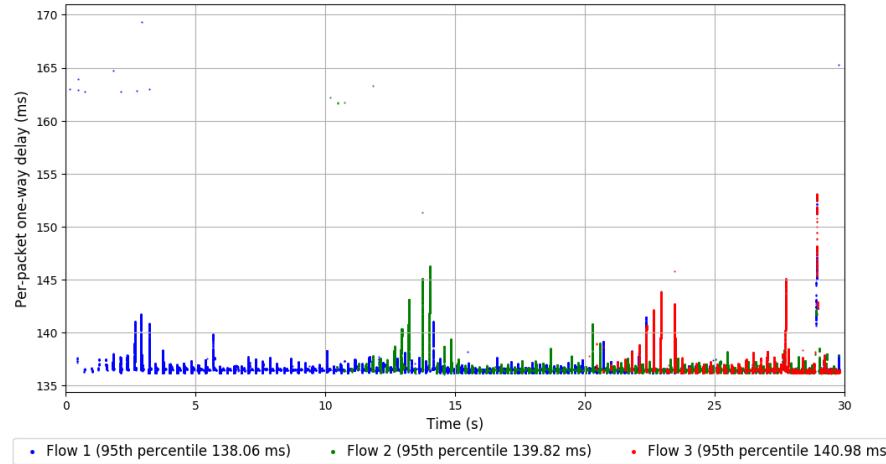
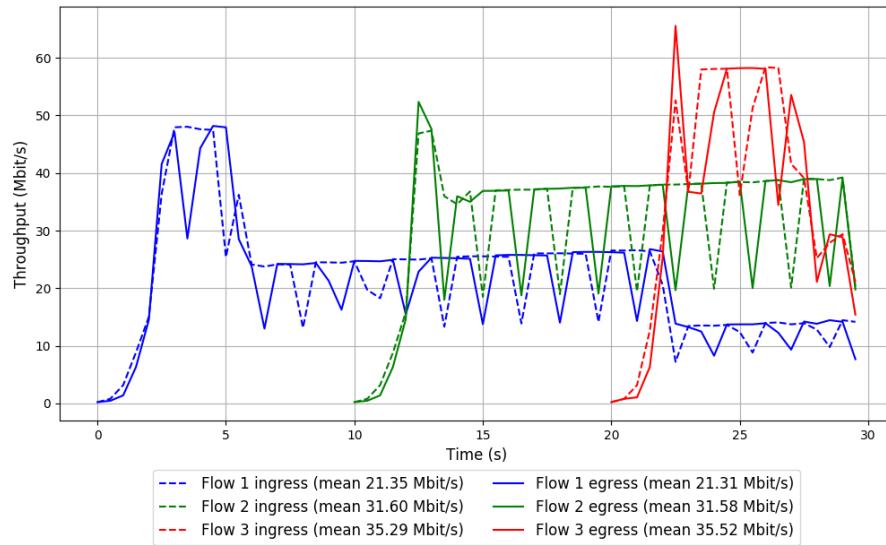
Run 6: Statistics of TCP Vegas

Start at: 2018-01-18 03:37:13

End at: 2018-01-18 03:37:43

```
# Below is generated by plot.py at 2018-01-18 08:55:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 53.75 Mbit/s
95th percentile per-packet one-way delay: 139.291 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 21.31 Mbit/s
95th percentile per-packet one-way delay: 138.064 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 31.58 Mbit/s
95th percentile per-packet one-way delay: 139.816 ms
Loss rate: 1.56%
-- Flow 3:
Average throughput: 35.52 Mbit/s
95th percentile per-packet one-way delay: 140.982 ms
Loss rate: 2.12%
```

Run 6: Report of TCP Vegas — Data Link



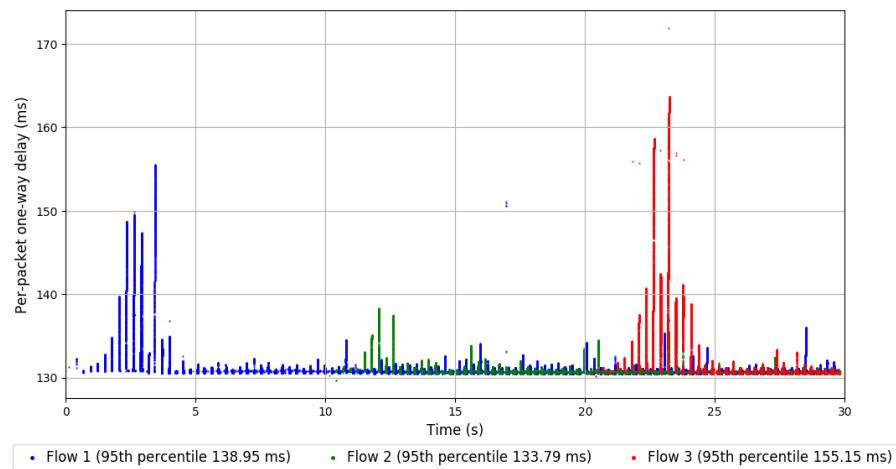
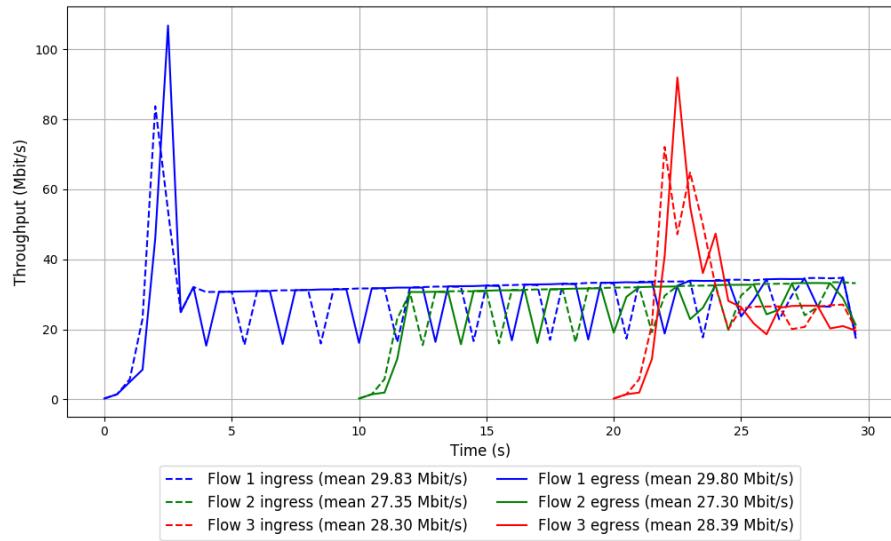
Run 7: Statistics of TCP Vegas

Start at: 2018-01-18 03:56:24

End at: 2018-01-18 03:56:54

```
# Below is generated by plot.py at 2018-01-18 08:55:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.11 Mbit/s
95th percentile per-packet one-way delay: 139.867 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 29.80 Mbit/s
95th percentile per-packet one-way delay: 138.950 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 27.30 Mbit/s
95th percentile per-packet one-way delay: 133.794 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 28.39 Mbit/s
95th percentile per-packet one-way delay: 155.150 ms
Loss rate: 2.42%
```

Run 7: Report of TCP Vegas — Data Link



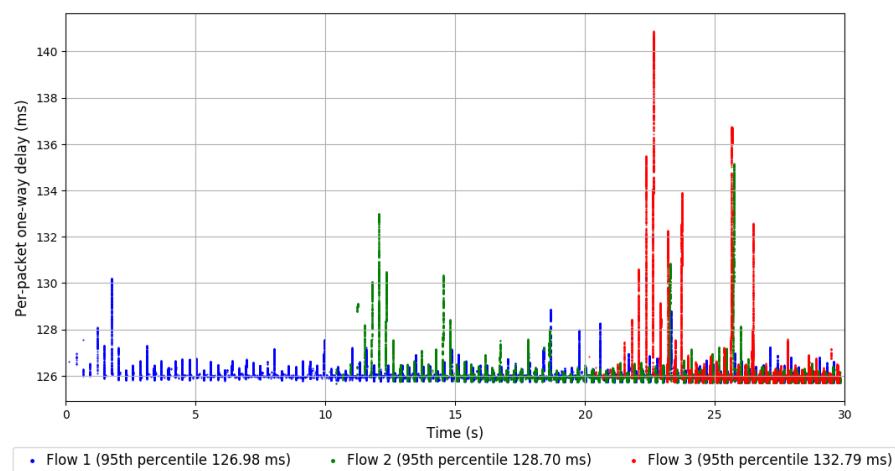
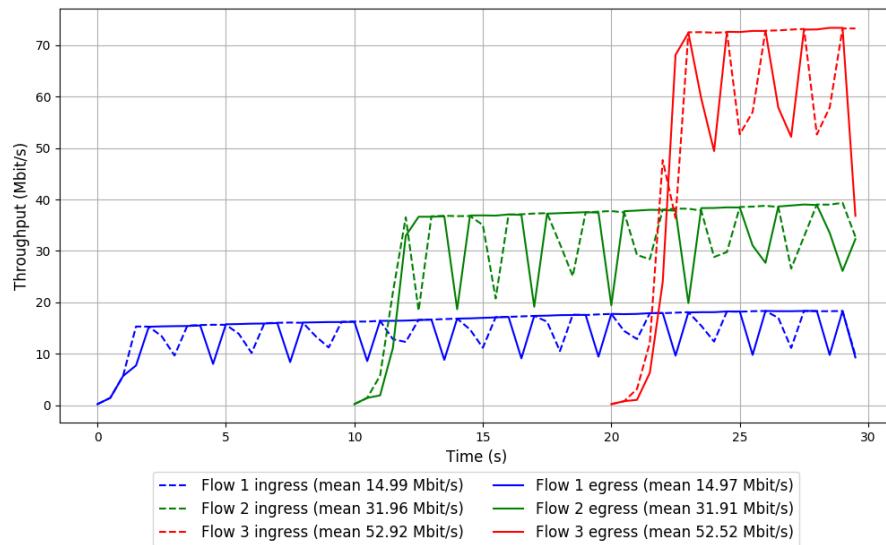
Run 8: Statistics of TCP Vegas

Start at: 2018-01-18 04:16:41

End at: 2018-01-18 04:17:11

```
# Below is generated by plot.py at 2018-01-18 08:55:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 53.14 Mbit/s
95th percentile per-packet one-way delay: 129.396 ms
Loss rate: 2.04%
-- Flow 1:
Average throughput: 14.97 Mbit/s
95th percentile per-packet one-way delay: 126.978 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 31.91 Mbit/s
95th percentile per-packet one-way delay: 128.702 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 52.52 Mbit/s
95th percentile per-packet one-way delay: 132.788 ms
Loss rate: 3.50%
```

Run 8: Report of TCP Vegas — Data Link



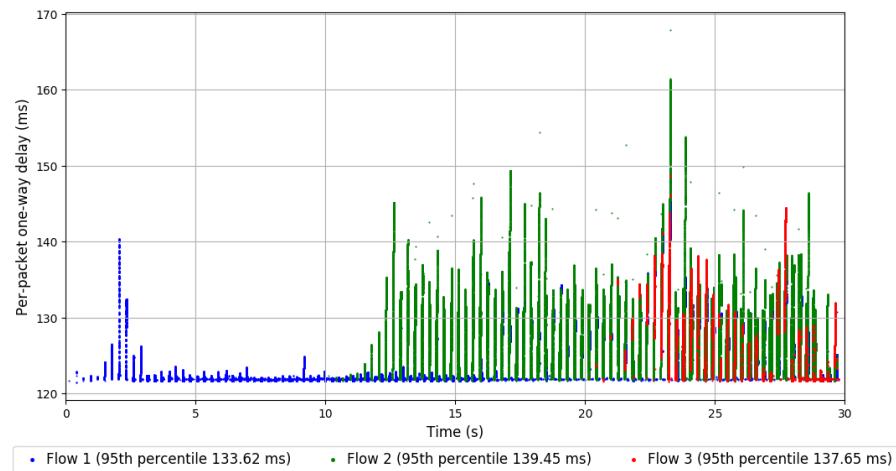
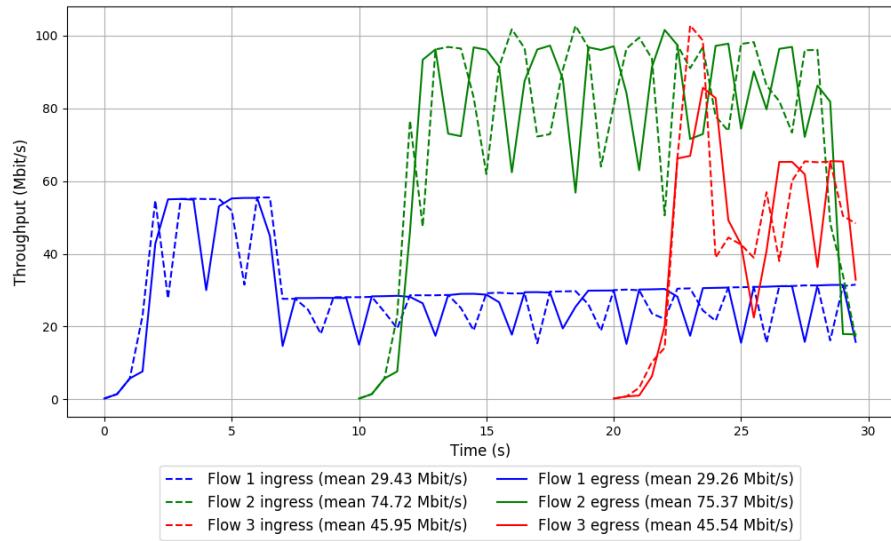
Run 9: Statistics of TCP Vegas

Start at: 2018-01-18 04:36:49

End at: 2018-01-18 04:37:19

```
# Below is generated by plot.py at 2018-01-18 08:55:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.77 Mbit/s
95th percentile per-packet one-way delay: 137.792 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 29.26 Mbit/s
95th percentile per-packet one-way delay: 133.622 ms
Loss rate: 1.48%
-- Flow 2:
Average throughput: 75.37 Mbit/s
95th percentile per-packet one-way delay: 139.453 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 45.54 Mbit/s
95th percentile per-packet one-way delay: 137.645 ms
Loss rate: 3.63%
```

Run 9: Report of TCP Vegas — Data Link



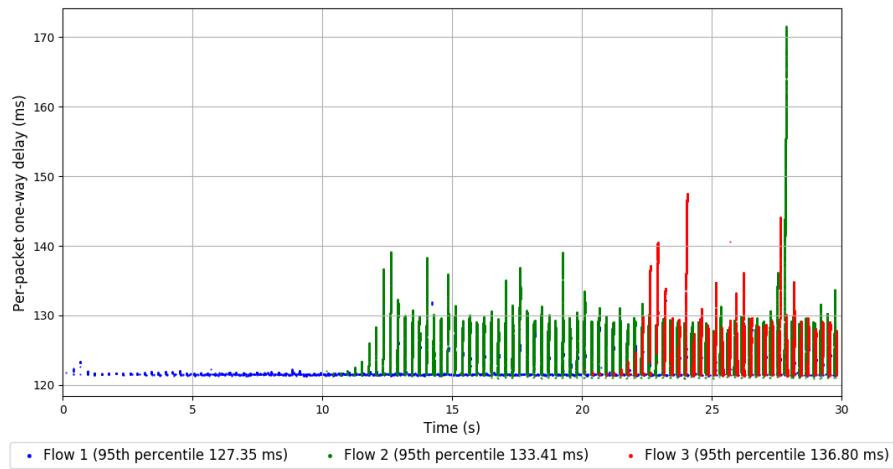
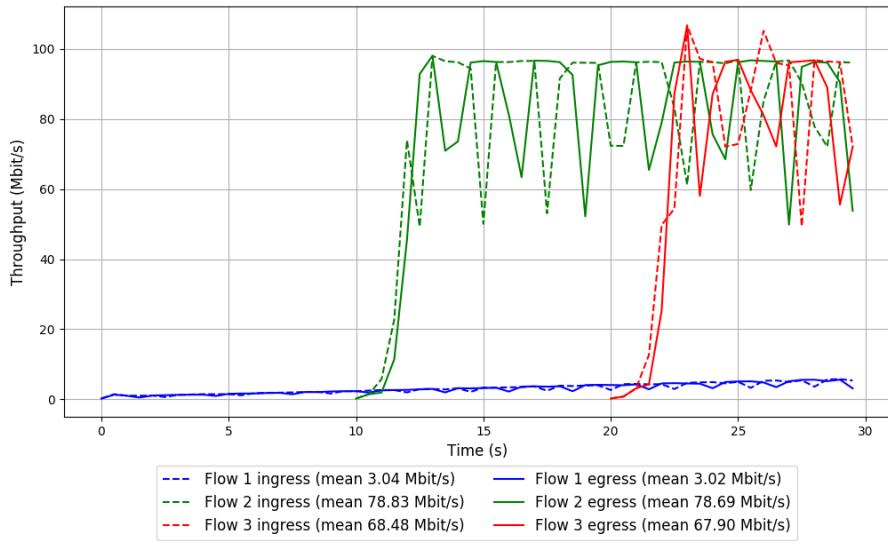
Run 10: Statistics of TCP Vegas

Start at: 2018-01-18 04:56:39

End at: 2018-01-18 04:57:09

```
# Below is generated by plot.py at 2018-01-18 08:55:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.22 Mbit/s
95th percentile per-packet one-way delay: 134.131 ms
Loss rate: 2.12%
-- Flow 1:
Average throughput: 3.02 Mbit/s
95th percentile per-packet one-way delay: 127.351 ms
Loss rate: 1.70%
-- Flow 2:
Average throughput: 78.69 Mbit/s
95th percentile per-packet one-way delay: 133.405 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 67.90 Mbit/s
95th percentile per-packet one-way delay: 136.802 ms
Loss rate: 3.54%
```

Run 10: Report of TCP Vegas — Data Link



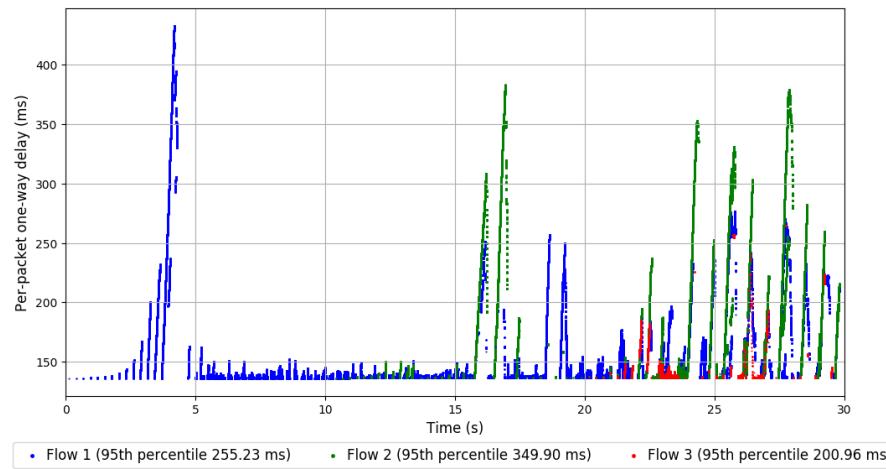
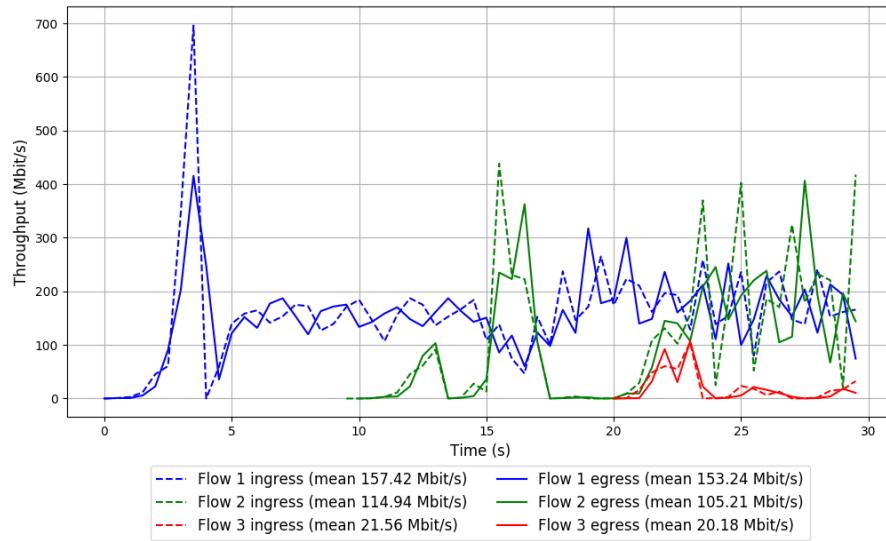
Run 1: Statistics of Verus

Start at: 2018-01-18 01:45:44

End at: 2018-01-18 01:46:14

```
# Below is generated by plot.py at 2018-01-18 08:55:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 229.37 Mbit/s
95th percentile per-packet one-way delay: 317.218 ms
Loss rate: 5.67%
-- Flow 1:
Average throughput: 153.24 Mbit/s
95th percentile per-packet one-way delay: 255.232 ms
Loss rate: 3.55%
-- Flow 2:
Average throughput: 105.21 Mbit/s
95th percentile per-packet one-way delay: 349.901 ms
Loss rate: 9.71%
-- Flow 3:
Average throughput: 20.18 Mbit/s
95th percentile per-packet one-way delay: 200.961 ms
Loss rate: 9.27%
```

Run 1: Report of Verus — Data Link



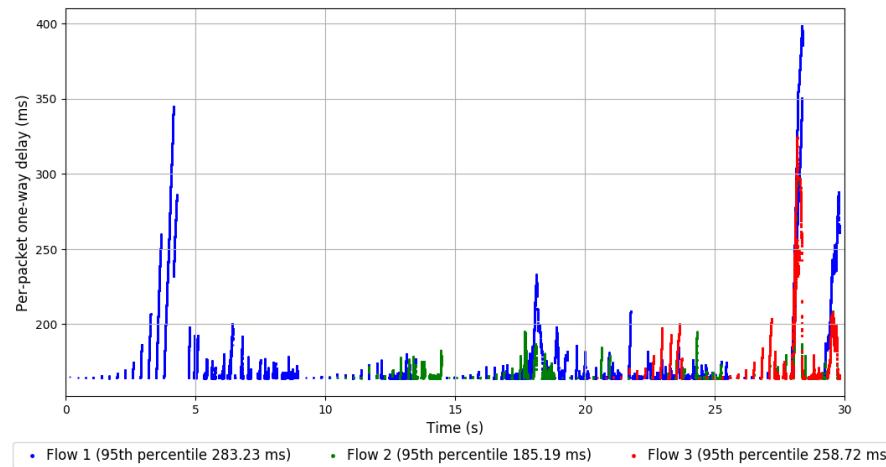
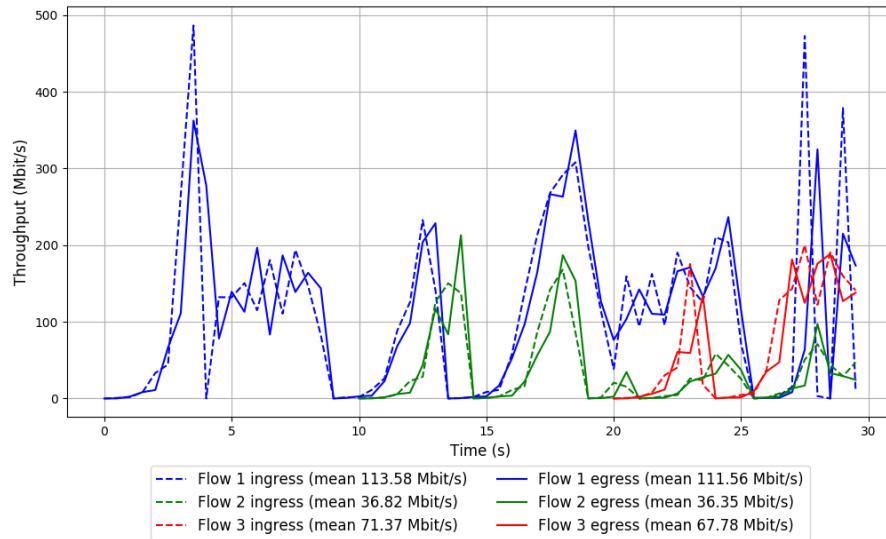
Run 2: Statistics of Verus

Start at: 2018-01-18 02:05:44

End at: 2018-01-18 02:06:14

```
# Below is generated by plot.py at 2018-01-18 08:55:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 157.56 Mbit/s
95th percentile per-packet one-way delay: 274.348 ms
Loss rate: 2.53%
-- Flow 1:
Average throughput: 111.56 Mbit/s
95th percentile per-packet one-way delay: 283.232 ms
Loss rate: 1.45%
-- Flow 2:
Average throughput: 36.35 Mbit/s
95th percentile per-packet one-way delay: 185.185 ms
Loss rate: 2.78%
-- Flow 3:
Average throughput: 67.78 Mbit/s
95th percentile per-packet one-way delay: 258.723 ms
Loss rate: 7.38%
```

## Run 2: Report of Verus — Data Link



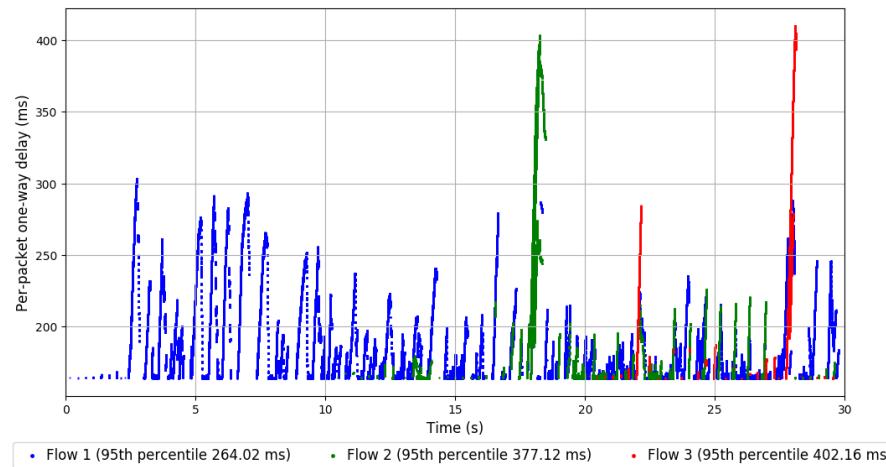
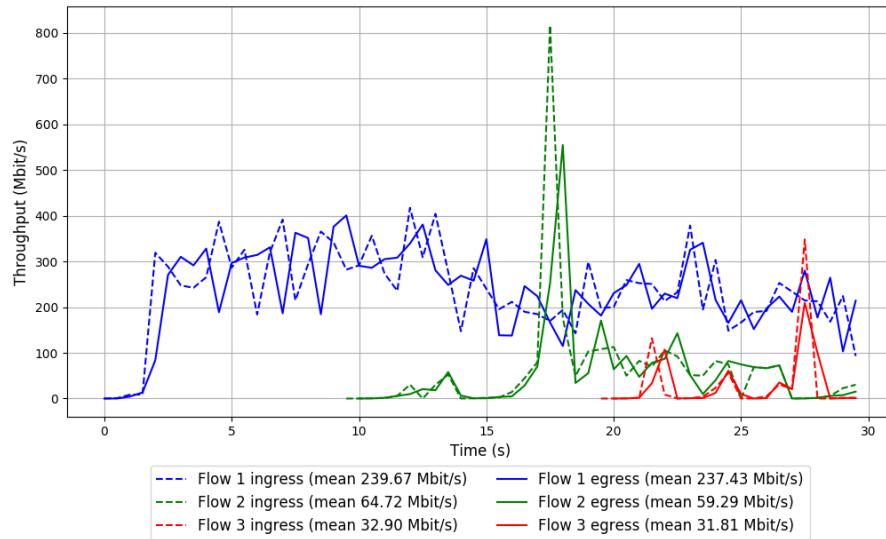
Run 3: Statistics of Verus

Start at: 2018-01-18 02:23:29

End at: 2018-01-18 02:23:59

```
# Below is generated by plot.py at 2018-01-18 08:56:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 286.43 Mbit/s
95th percentile per-packet one-way delay: 280.722 ms
Loss rate: 2.38%
-- Flow 1:
Average throughput: 237.43 Mbit/s
95th percentile per-packet one-way delay: 264.019 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 59.29 Mbit/s
95th percentile per-packet one-way delay: 377.122 ms
Loss rate: 9.80%
-- Flow 3:
Average throughput: 31.81 Mbit/s
95th percentile per-packet one-way delay: 402.158 ms
Loss rate: 6.33%
```

### Run 3: Report of Verus — Data Link



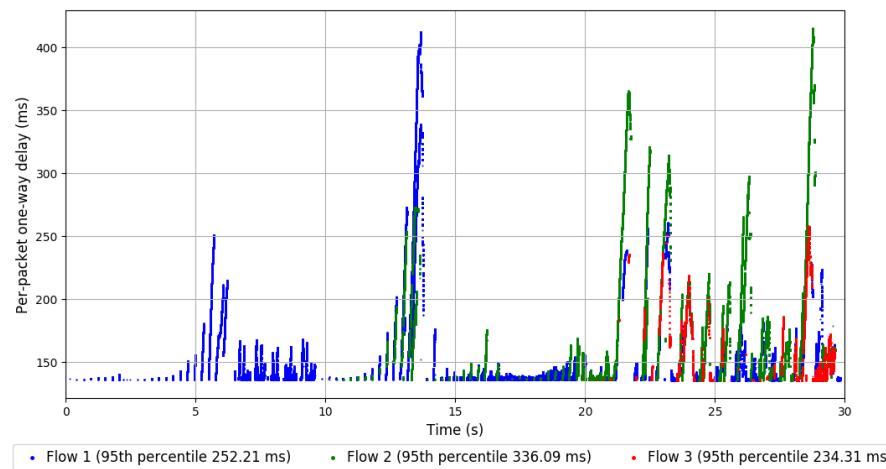
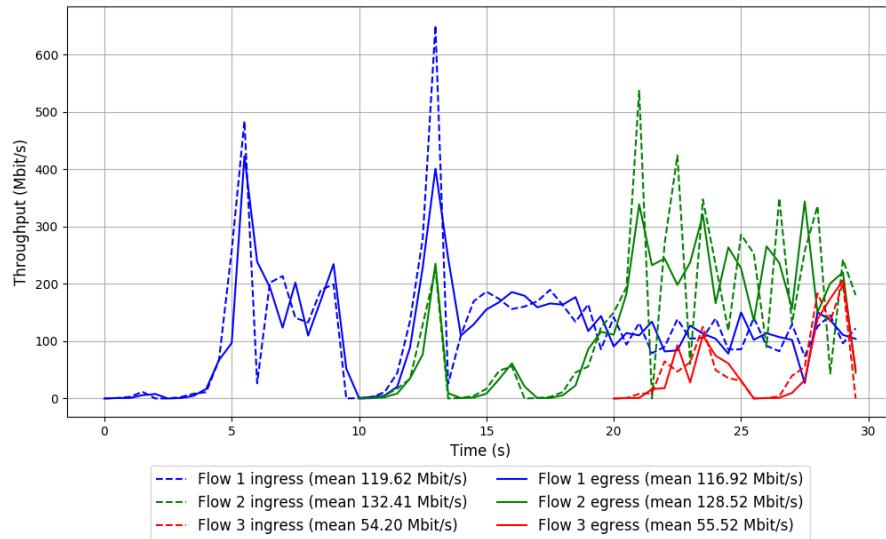
Run 4: Statistics of Verus

Start at: 2018-01-18 02:42:42

End at: 2018-01-18 02:43:12

```
# Below is generated by plot.py at 2018-01-18 08:56:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 218.87 Mbit/s
95th percentile per-packet one-way delay: 302.712 ms
Loss rate: 3.75%
-- Flow 1:
Average throughput: 116.92 Mbit/s
95th percentile per-packet one-way delay: 252.212 ms
Loss rate: 3.13%
-- Flow 2:
Average throughput: 128.52 Mbit/s
95th percentile per-packet one-way delay: 336.088 ms
Loss rate: 5.24%
-- Flow 3:
Average throughput: 55.52 Mbit/s
95th percentile per-packet one-way delay: 234.313 ms
Loss rate: 0.45%
```

## Run 4: Report of Verus — Data Link



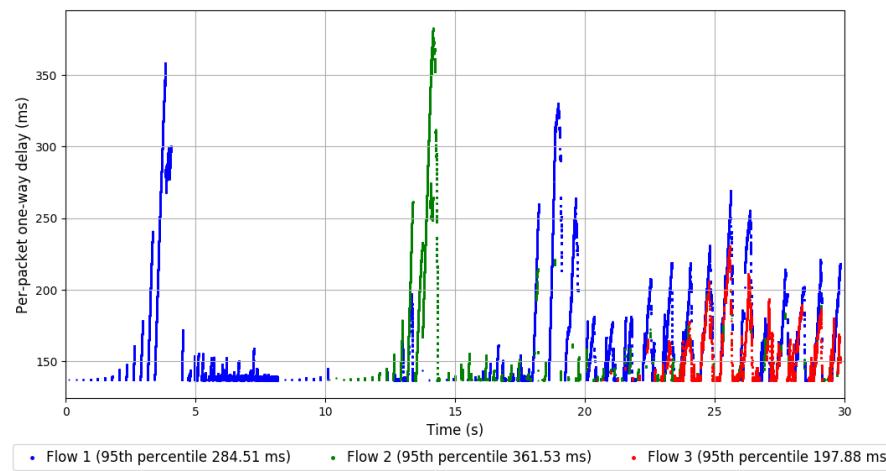
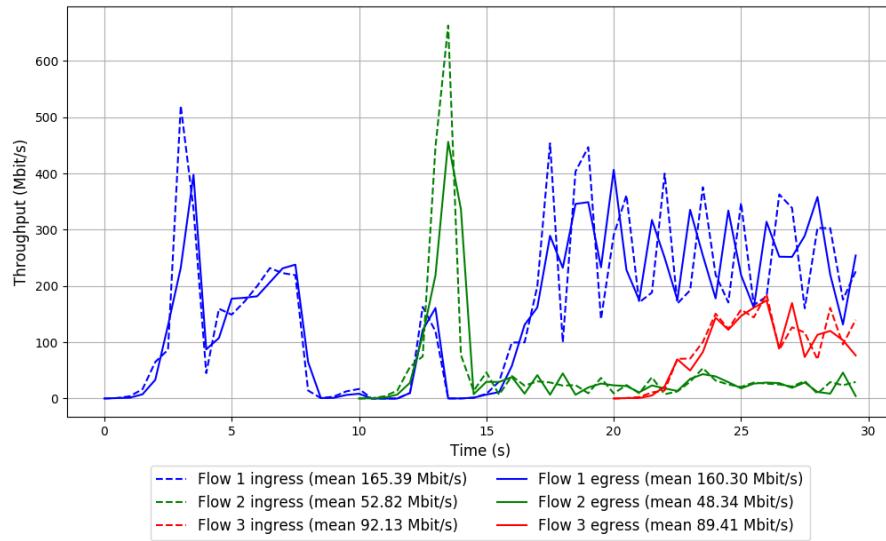
Run 5: Statistics of Verus

Start at: 2018-01-18 03:02:57

End at: 2018-01-18 03:03:27

```
# Below is generated by plot.py at 2018-01-18 08:56:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 221.36 Mbit/s
95th percentile per-packet one-way delay: 290.970 ms
Loss rate: 4.73%
-- Flow 1:
Average throughput: 160.30 Mbit/s
95th percentile per-packet one-way delay: 284.510 ms
Loss rate: 3.48%
-- Flow 2:
Average throughput: 48.34 Mbit/s
95th percentile per-packet one-way delay: 361.526 ms
Loss rate: 9.77%
-- Flow 3:
Average throughput: 89.41 Mbit/s
95th percentile per-packet one-way delay: 197.882 ms
Loss rate: 5.70%
```

Run 5: Report of Verus — Data Link



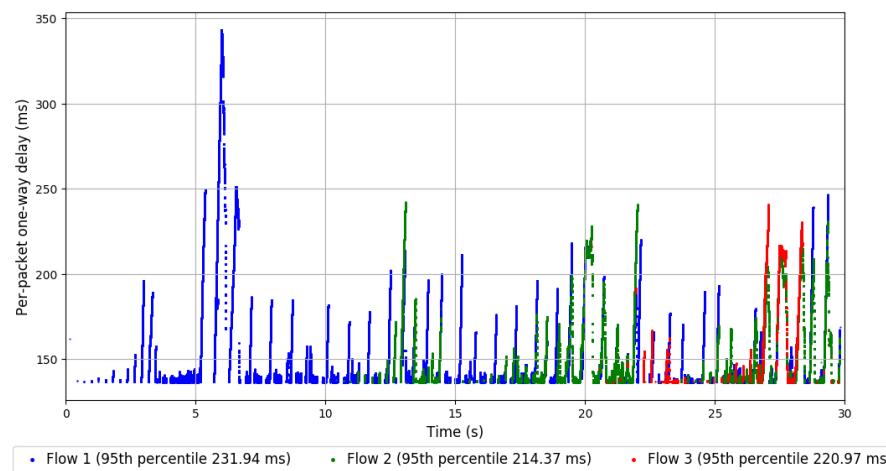
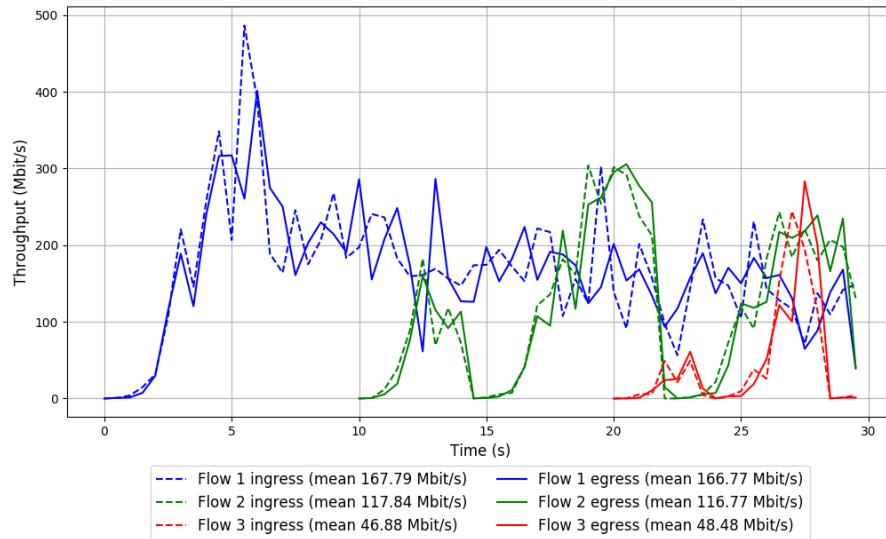
Run 6: Statistics of Verus

Start at: 2018-01-18 03:22:25

End at: 2018-01-18 03:22:55

```
# Below is generated by plot.py at 2018-01-18 08:57:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 259.75 Mbit/s
95th percentile per-packet one-way delay: 220.855 ms
Loss rate: 1.72%
-- Flow 1:
Average throughput: 166.77 Mbit/s
95th percentile per-packet one-way delay: 231.936 ms
Loss rate: 1.59%
-- Flow 2:
Average throughput: 116.77 Mbit/s
95th percentile per-packet one-way delay: 214.371 ms
Loss rate: 2.29%
-- Flow 3:
Average throughput: 48.48 Mbit/s
95th percentile per-packet one-way delay: 220.974 ms
Loss rate: 0.32%
```

## Run 6: Report of Verus — Data Link



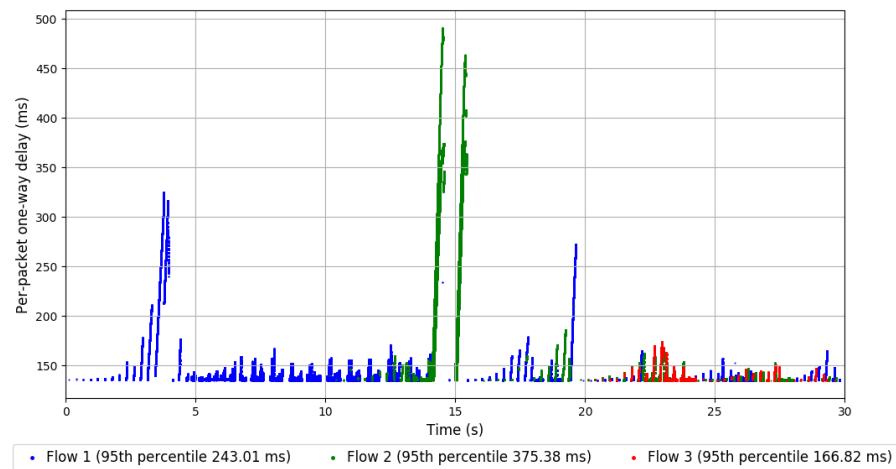
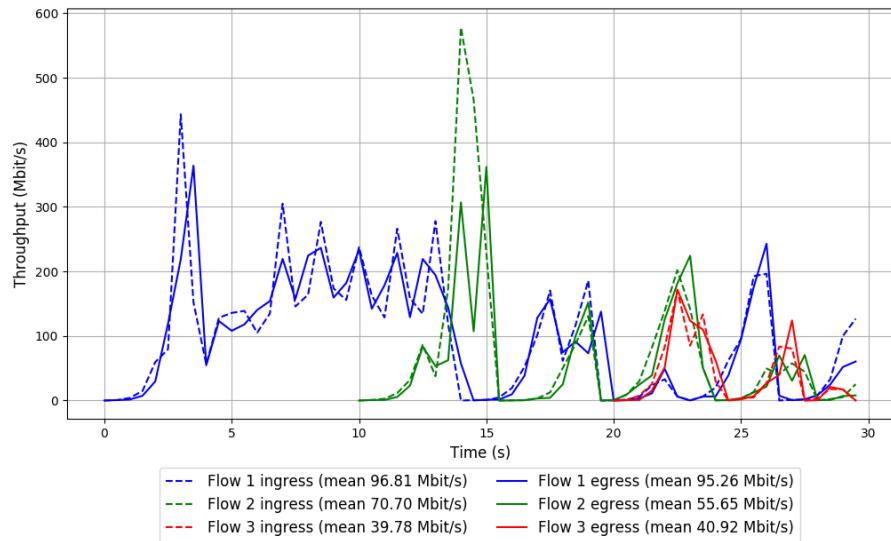
Run 7: Statistics of Verus

Start at: 2018-01-18 03:42:09

End at: 2018-01-18 03:42:39

```
# Below is generated by plot.py at 2018-01-18 08:57:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 144.96 Mbit/s
95th percentile per-packet one-way delay: 298.117 ms
Loss rate: 8.14%
-- Flow 1:
Average throughput: 95.26 Mbit/s
95th percentile per-packet one-way delay: 243.009 ms
Loss rate: 2.32%
-- Flow 2:
Average throughput: 55.65 Mbit/s
95th percentile per-packet one-way delay: 375.375 ms
Loss rate: 22.41%
-- Flow 3:
Average throughput: 40.92 Mbit/s
95th percentile per-packet one-way delay: 166.825 ms
Loss rate: 0.02%
```

## Run 7: Report of Verus — Data Link



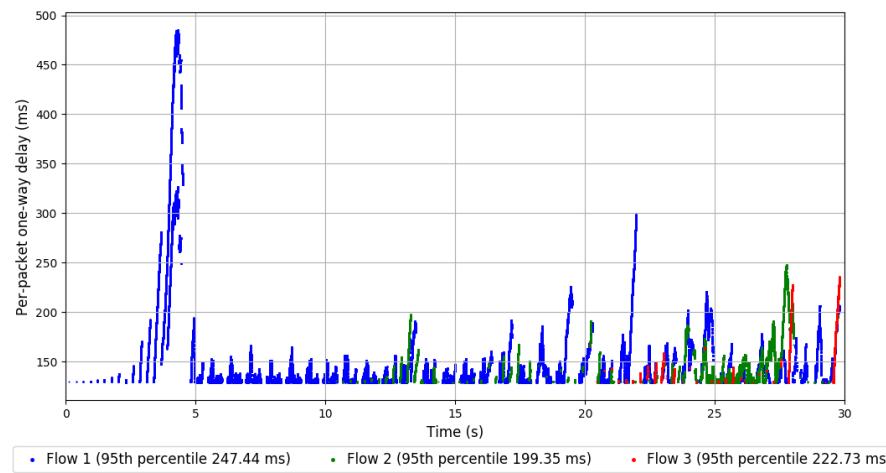
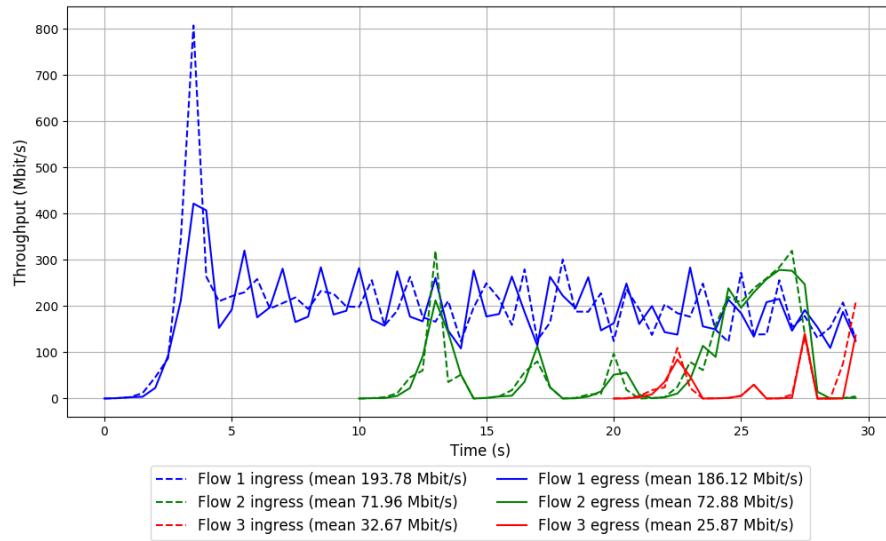
Run 8: Statistics of Verus

Start at: 2018-01-18 04:01:28

End at: 2018-01-18 04:01:58

```
# Below is generated by plot.py at 2018-01-18 08:59:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 242.63 Mbit/s
95th percentile per-packet one-way delay: 227.447 ms
Loss rate: 4.29%
-- Flow 1:
Average throughput: 186.12 Mbit/s
95th percentile per-packet one-way delay: 247.440 ms
Loss rate: 4.29%
-- Flow 2:
Average throughput: 72.88 Mbit/s
95th percentile per-packet one-way delay: 199.351 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 25.87 Mbit/s
95th percentile per-packet one-way delay: 222.733 ms
Loss rate: 22.72%
```

Run 8: Report of Verus — Data Link



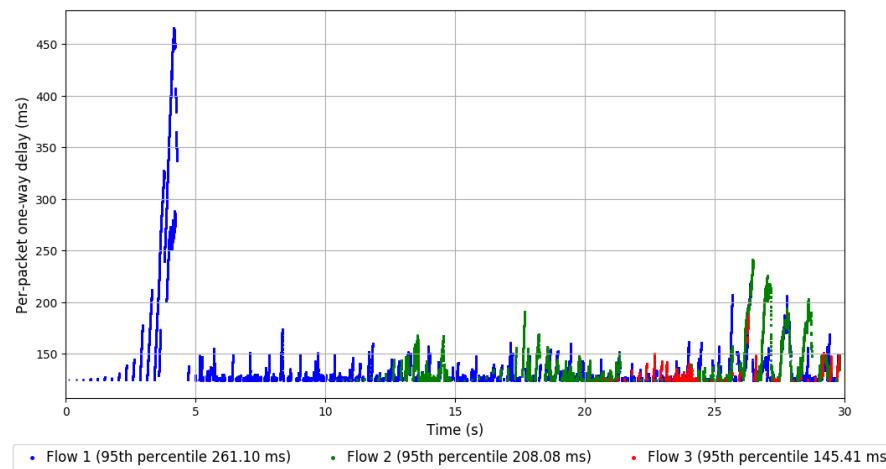
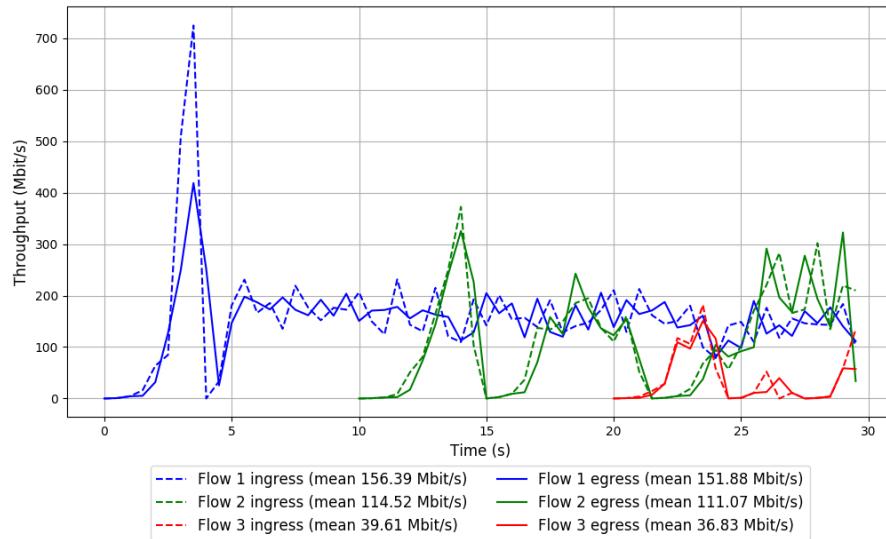
Run 9: Statistics of Verus

Start at: 2018-01-18 04:21:42

End at: 2018-01-18 04:22:12

```
# Below is generated by plot.py at 2018-01-18 08:59:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 237.46 Mbit/s
95th percentile per-packet one-way delay: 213.449 ms
Loss rate: 4.25%
-- Flow 1:
Average throughput: 151.88 Mbit/s
95th percentile per-packet one-way delay: 261.104 ms
Loss rate: 3.74%
-- Flow 2:
Average throughput: 111.07 Mbit/s
95th percentile per-packet one-way delay: 208.076 ms
Loss rate: 4.34%
-- Flow 3:
Average throughput: 36.83 Mbit/s
95th percentile per-packet one-way delay: 145.414 ms
Loss rate: 9.77%
```

## Run 9: Report of Verus — Data Link



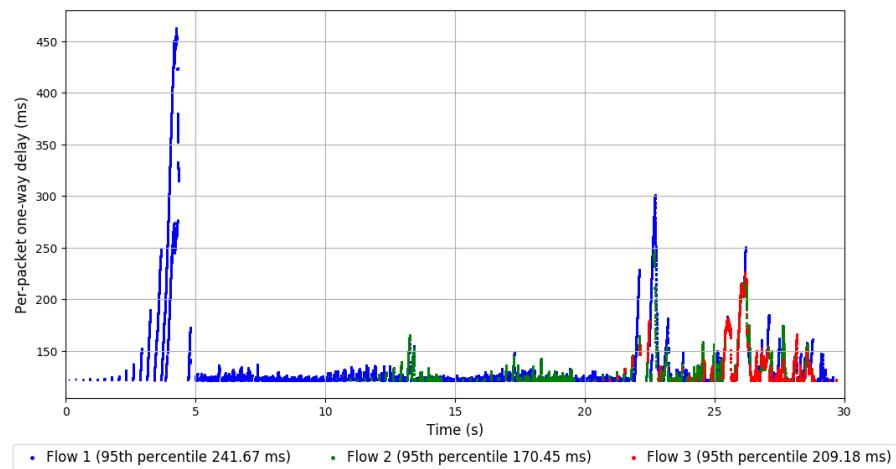
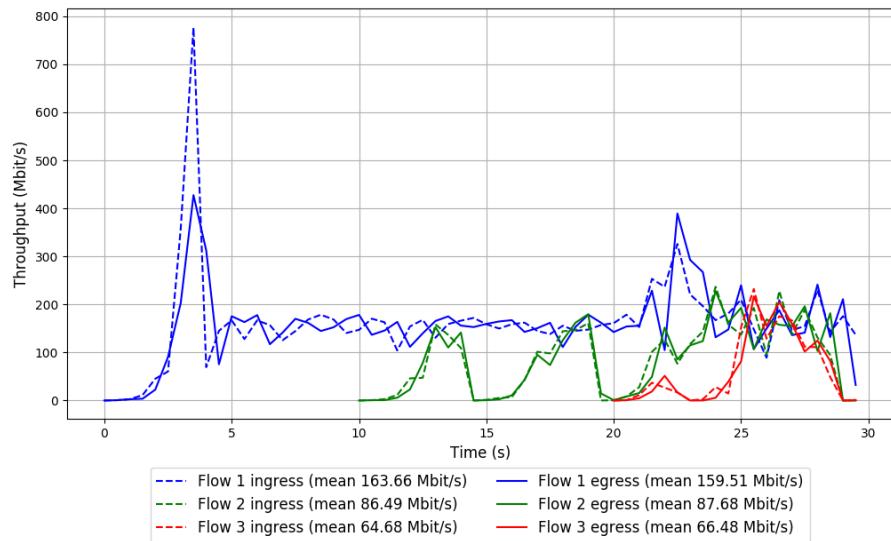
Run 10: Statistics of Verus

Start at: 2018-01-18 04:41:30

End at: 2018-01-18 04:42:00

```
# Below is generated by plot.py at 2018-01-18 09:00:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 238.24 Mbit/s
95th percentile per-packet one-way delay: 217.682 ms
Loss rate: 2.79%
-- Flow 1:
Average throughput: 159.51 Mbit/s
95th percentile per-packet one-way delay: 241.673 ms
Loss rate: 4.11%
-- Flow 2:
Average throughput: 87.68 Mbit/s
95th percentile per-packet one-way delay: 170.454 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 66.48 Mbit/s
95th percentile per-packet one-way delay: 209.184 ms
Loss rate: 0.08%
```

Run 10: Report of Verus — Data Link



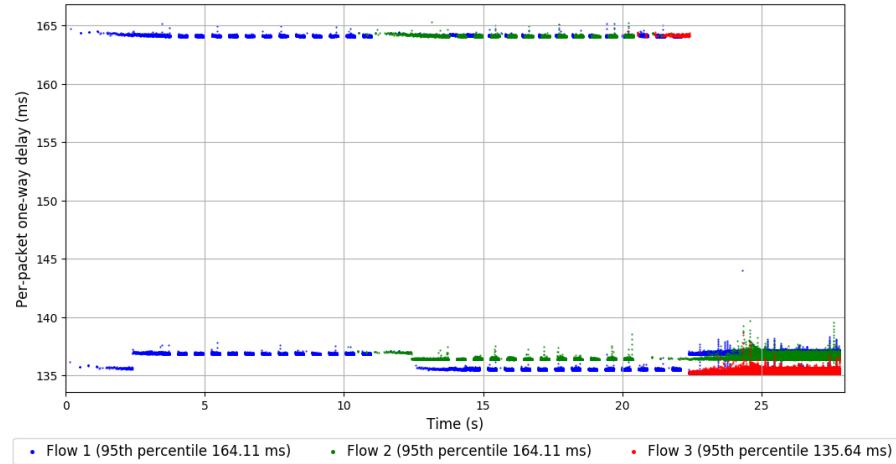
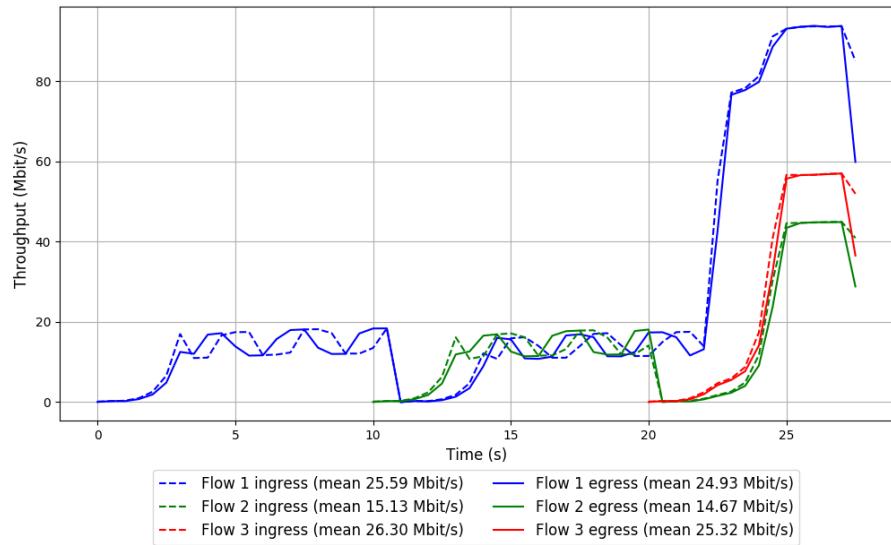
Run 1: Statistics of Copa

Start at: 2018-01-18 02:02:51

End at: 2018-01-18 02:03:21

```
# Below is generated by plot.py at 2018-01-18 09:00:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.28 Mbit/s
95th percentile per-packet one-way delay: 164.101 ms
Loss rate: 4.42%
-- Flow 1:
Average throughput: 24.93 Mbit/s
95th percentile per-packet one-way delay: 164.110 ms
Loss rate: 3.53%
-- Flow 2:
Average throughput: 14.67 Mbit/s
95th percentile per-packet one-way delay: 164.108 ms
Loss rate: 4.47%
-- Flow 3:
Average throughput: 25.32 Mbit/s
95th percentile per-packet one-way delay: 135.638 ms
Loss rate: 7.39%
```

Run 1: Report of Copa — Data Link



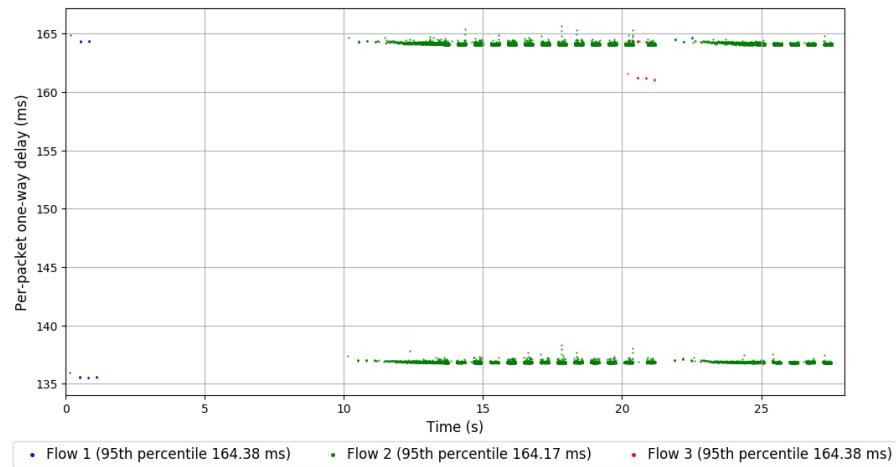
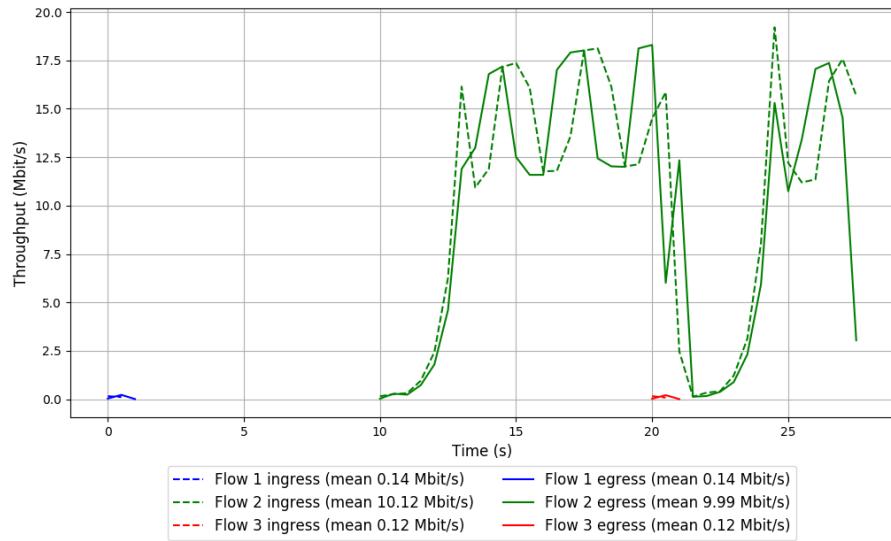
Run 2: Statistics of Copa

Start at: 2018-01-18 02:20:52

End at: 2018-01-18 02:21:22

```
# Below is generated by plot.py at 2018-01-18 09:00:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.35 Mbit/s
95th percentile per-packet one-way delay: 164.174 ms
Loss rate: 4.31%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 164.377 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 9.99 Mbit/s
95th percentile per-packet one-way delay: 164.174 ms
Loss rate: 4.32%
-- Flow 3:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 164.379 ms
Loss rate: 0.00%
```

## Run 2: Report of Copa — Data Link



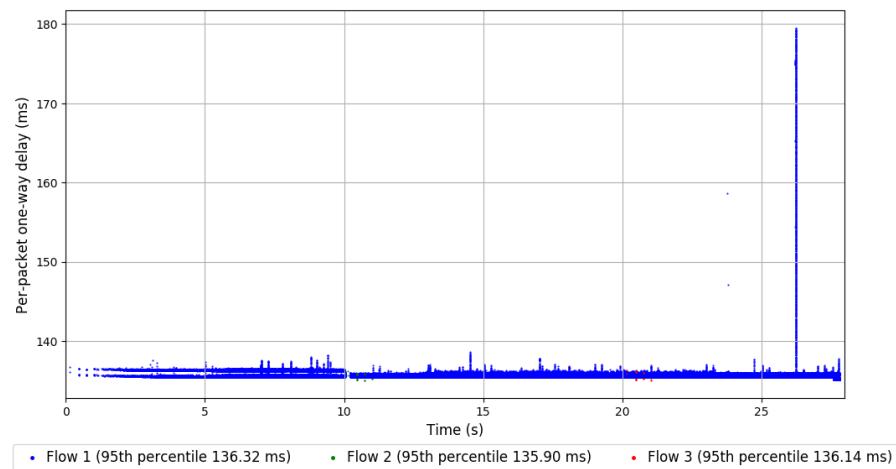
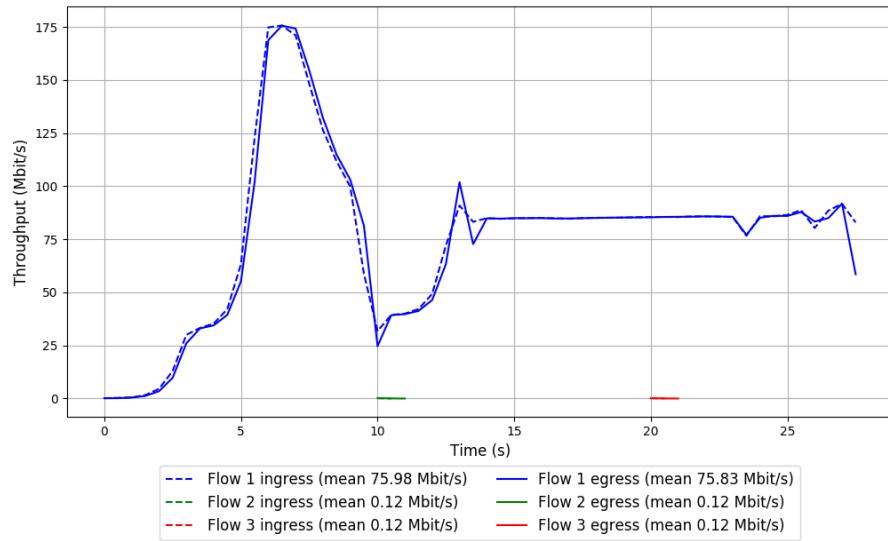
Run 3: Statistics of Copa

Start at: 2018-01-18 02:39:33

End at: 2018-01-18 02:40:03

```
# Below is generated by plot.py at 2018-01-18 09:00:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.84 Mbit/s
95th percentile per-packet one-way delay: 136.324 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 75.83 Mbit/s
95th percentile per-packet one-way delay: 136.324 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 135.903 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 136.137 ms
Loss rate: 0.00%
```

### Run 3: Report of Copa — Data Link



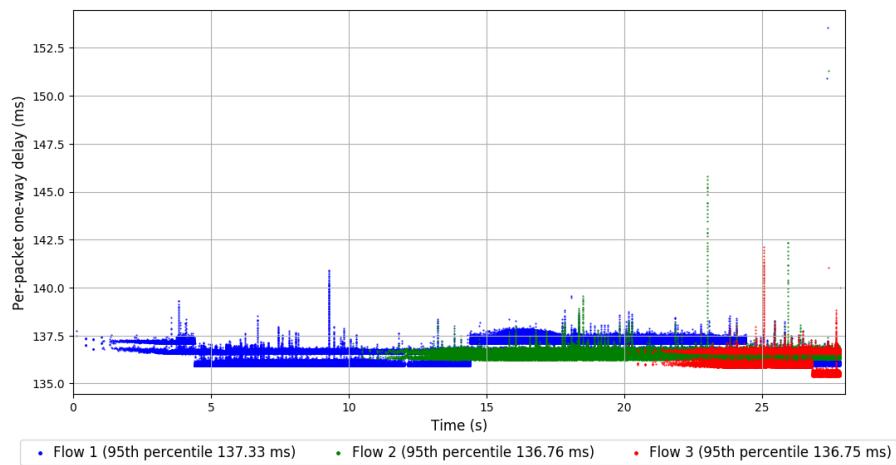
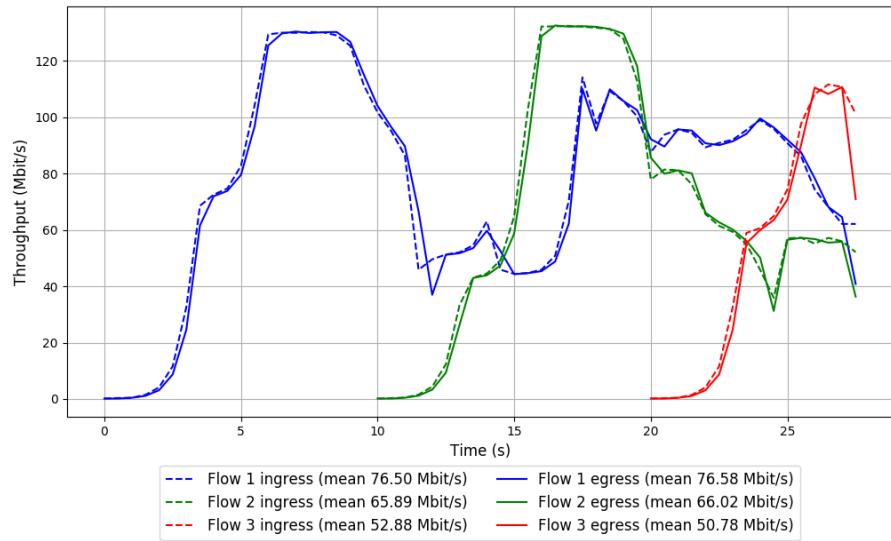
Run 4: Statistics of Copa

Start at: 2018-01-18 02:59:46

End at: 2018-01-18 03:00:16

```
# Below is generated by plot.py at 2018-01-18 09:00:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 132.77 Mbit/s
95th percentile per-packet one-way delay: 137.256 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 76.58 Mbit/s
95th percentile per-packet one-way delay: 137.327 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 66.02 Mbit/s
95th percentile per-packet one-way delay: 136.756 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 50.78 Mbit/s
95th percentile per-packet one-way delay: 136.750 ms
Loss rate: 7.25%
```

Run 4: Report of Copa — Data Link



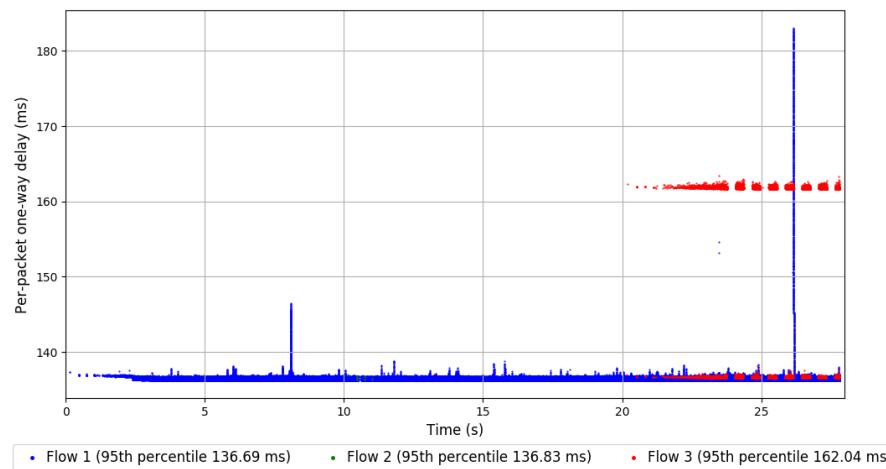
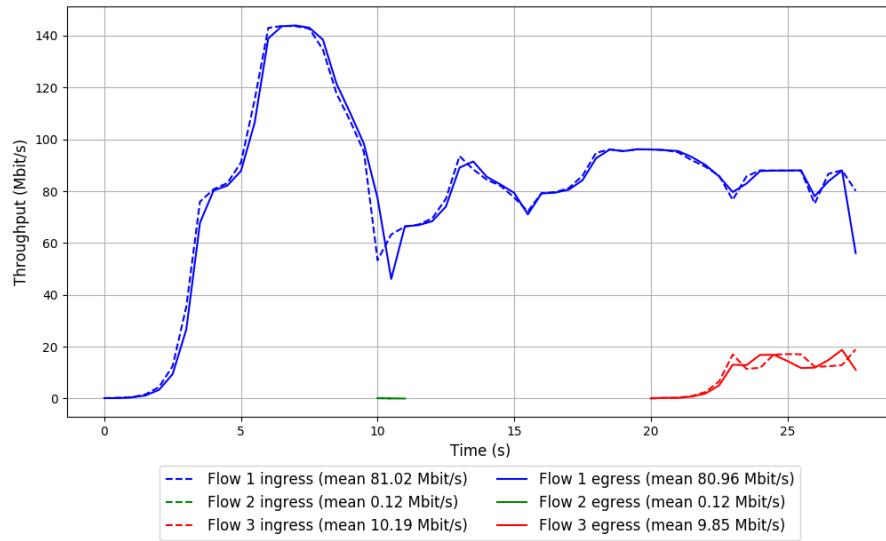
Run 5: Statistics of Copa

Start at: 2018-01-18 03:19:08

End at: 2018-01-18 03:19:38

```
# Below is generated by plot.py at 2018-01-18 09:00:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.68 Mbit/s
95th percentile per-packet one-way delay: 136.712 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 80.96 Mbit/s
95th percentile per-packet one-way delay: 136.689 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 136.834 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.85 Mbit/s
95th percentile per-packet one-way delay: 162.036 ms
Loss rate: 4.94%
```

### Run 5: Report of Copa — Data Link



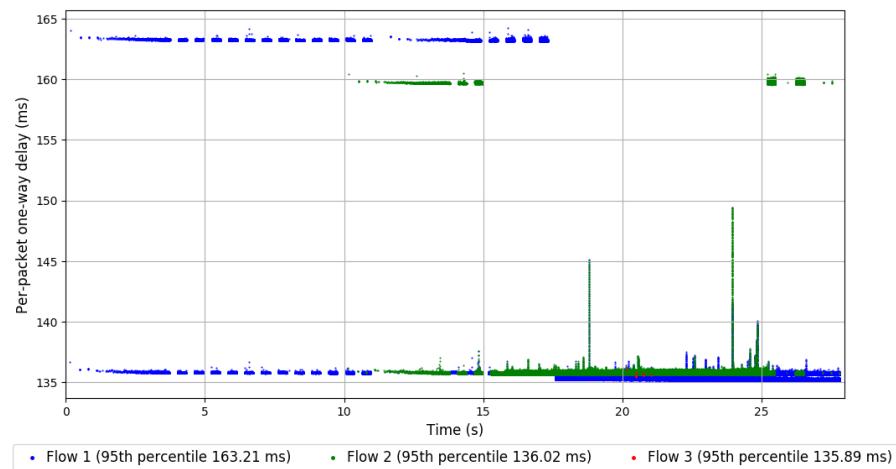
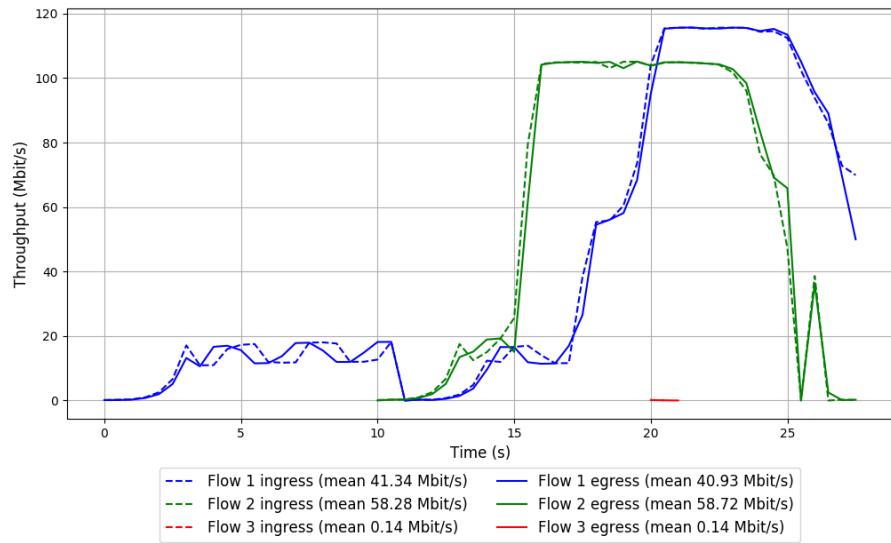
Run 6: Statistics of Copa

Start at: 2018-01-18 03:38:56

End at: 2018-01-18 03:39:26

```
# Below is generated by plot.py at 2018-01-18 09:00:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.42 Mbit/s
95th percentile per-packet one-way delay: 159.659 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 40.93 Mbit/s
95th percentile per-packet one-way delay: 163.213 ms
Loss rate: 1.95%
-- Flow 2:
Average throughput: 58.72 Mbit/s
95th percentile per-packet one-way delay: 136.020 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 135.894 ms
Loss rate: 0.00%
```

Run 6: Report of Copa — Data Link



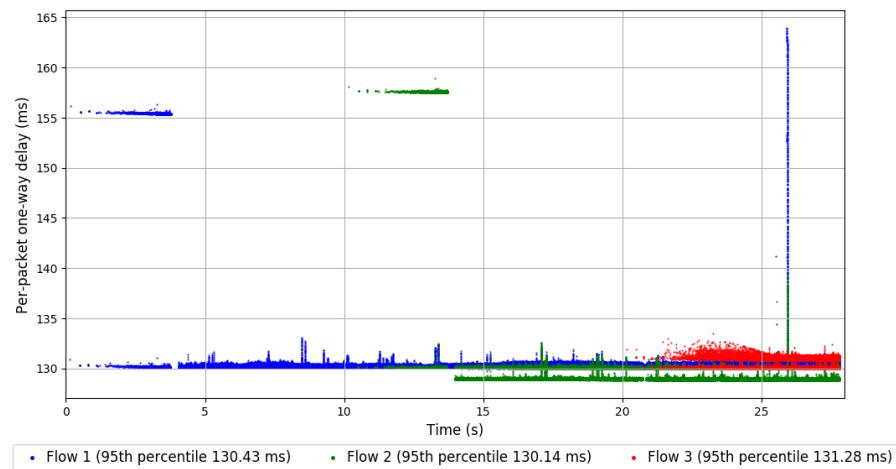
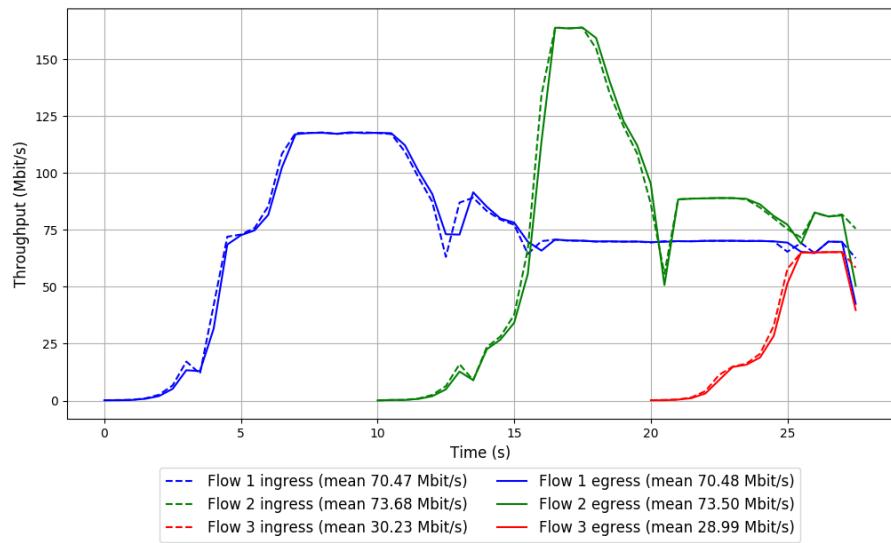
Run 7: Statistics of Copa

Start at: 2018-01-18 03:58:07

End at: 2018-01-18 03:58:37

```
# Below is generated by plot.py at 2018-01-18 09:01:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 125.42 Mbit/s
95th percentile per-packet one-way delay: 130.508 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 70.48 Mbit/s
95th percentile per-packet one-way delay: 130.428 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 73.50 Mbit/s
95th percentile per-packet one-way delay: 130.137 ms
Loss rate: 1.76%
-- Flow 3:
Average throughput: 28.99 Mbit/s
95th percentile per-packet one-way delay: 131.275 ms
Loss rate: 7.41%
```

Run 7: Report of Copa — Data Link



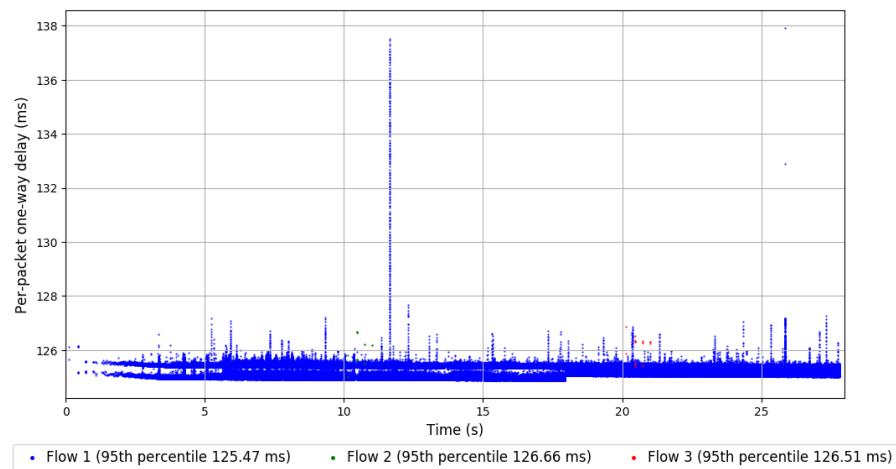
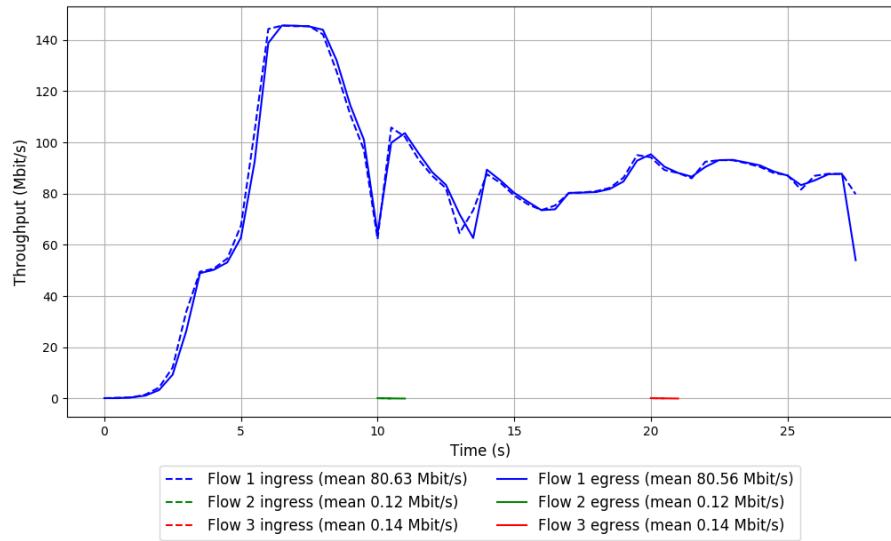
Run 8: Statistics of Copa

Start at: 2018-01-18 04:18:23

End at: 2018-01-18 04:18:53

```
# Below is generated by plot.py at 2018-01-18 09:01:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.57 Mbit/s
95th percentile per-packet one-way delay: 125.472 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 80.56 Mbit/s
95th percentile per-packet one-way delay: 125.472 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 126.661 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 126.514 ms
Loss rate: 0.00%
```

### Run 8: Report of Copa — Data Link



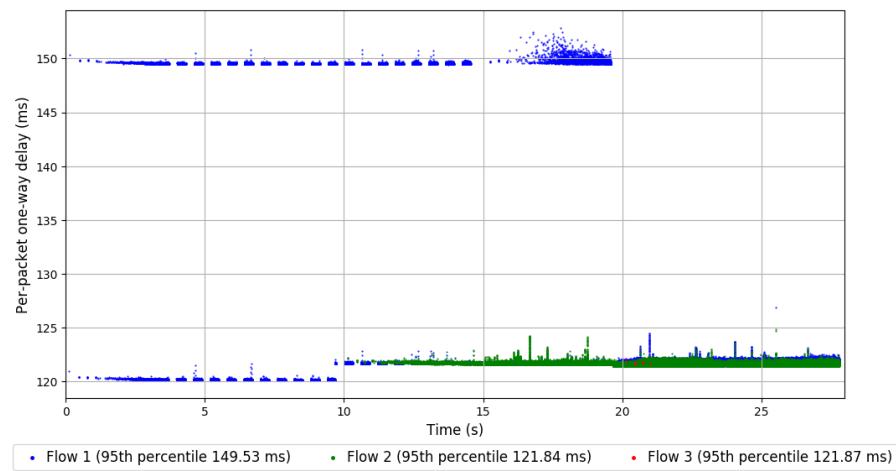
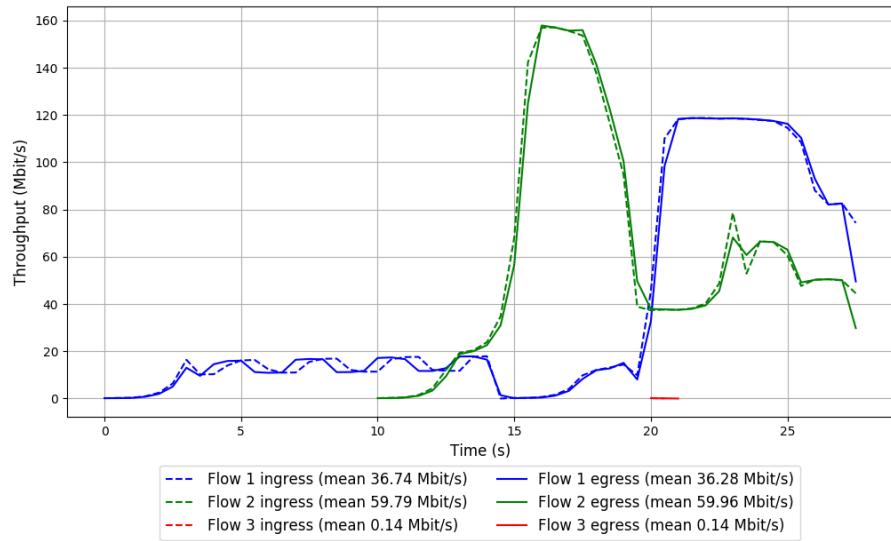
Run 9: Statistics of Copa

Start at: 2018-01-18 04:38:33

End at: 2018-01-18 04:39:04

```
# Below is generated by plot.py at 2018-01-18 09:01:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.57 Mbit/s
95th percentile per-packet one-way delay: 122.256 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 36.28 Mbit/s
95th percentile per-packet one-way delay: 149.525 ms
Loss rate: 2.19%
-- Flow 2:
Average throughput: 59.96 Mbit/s
95th percentile per-packet one-way delay: 121.837 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 121.873 ms
Loss rate: 0.00%
```

## Run 9: Report of Copa — Data Link



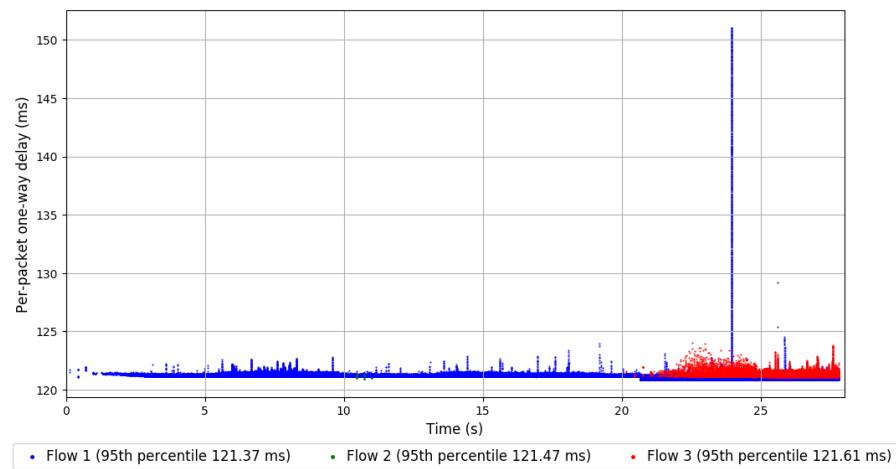
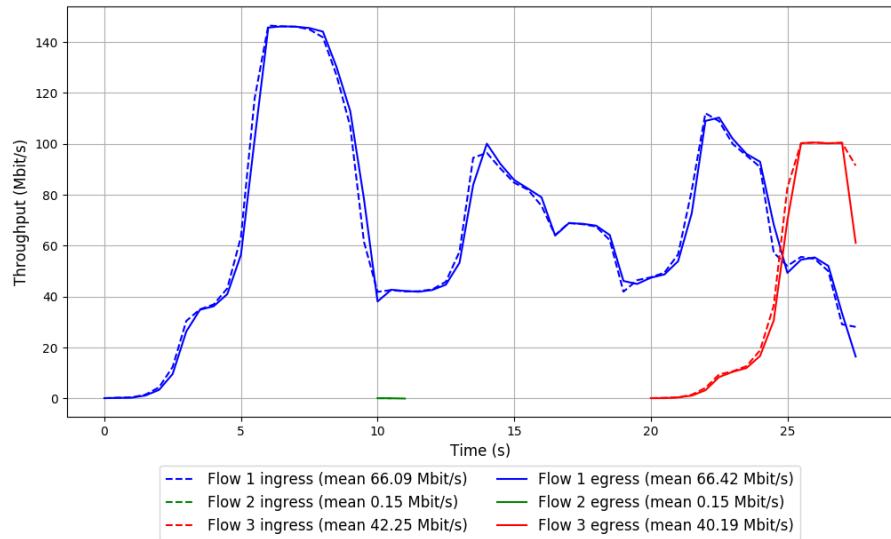
Run 10: Statistics of Copa

Start at: 2018-01-18 04:58:23

End at: 2018-01-18 04:58:53

```
# Below is generated by plot.py at 2018-01-18 09:01:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.54 Mbit/s
95th percentile per-packet one-way delay: 121.432 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 66.42 Mbit/s
95th percentile per-packet one-way delay: 121.372 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 121.474 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 40.19 Mbit/s
95th percentile per-packet one-way delay: 121.609 ms
Loss rate: 8.16%
```

Run 10: Report of Copa — Data Link

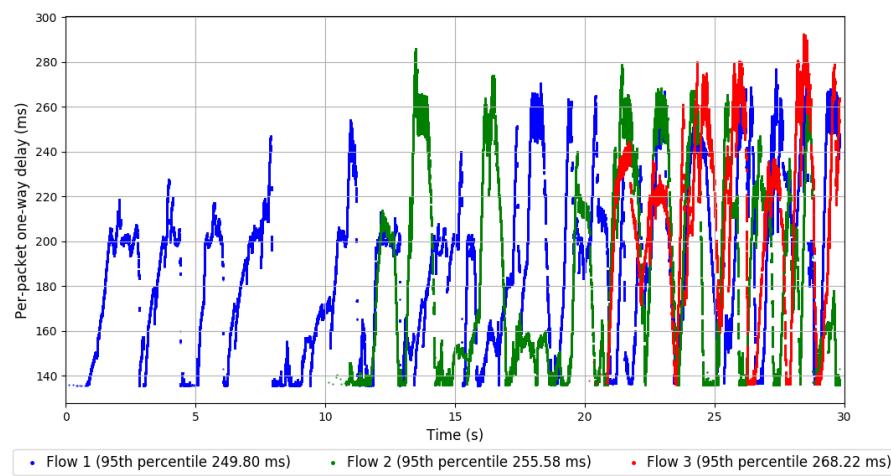
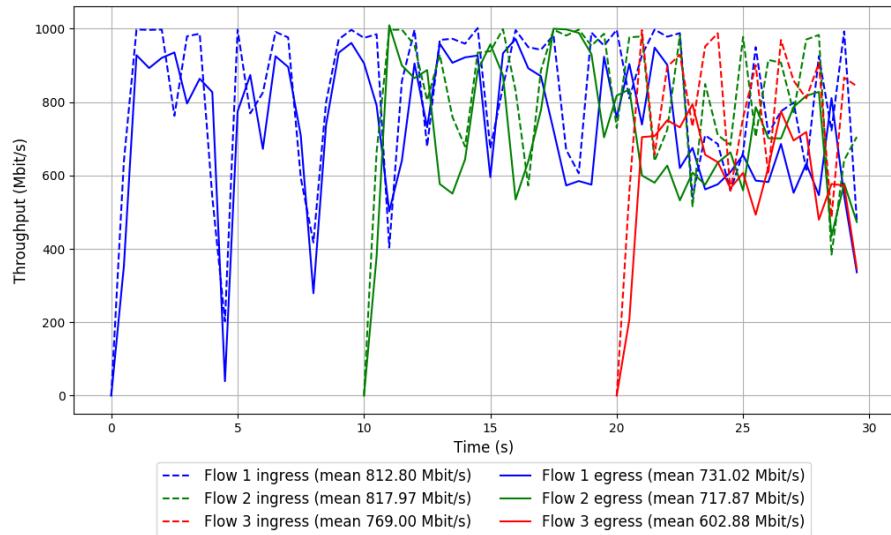


```
Run 1: Statistics of FillP

Start at: 2018-01-18 01:59:04
End at: 2018-01-18 01:59:34

# Below is generated by plot.py at 2018-01-18 09:26:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1402.82 Mbit/s
95th percentile per-packet one-way delay: 255.229 ms
Loss rate: 13.77%
-- Flow 1:
Average throughput: 731.02 Mbit/s
95th percentile per-packet one-way delay: 249.798 ms
Loss rate: 10.88%
-- Flow 2:
Average throughput: 717.87 Mbit/s
95th percentile per-packet one-way delay: 255.577 ms
Loss rate: 13.42%
-- Flow 3:
Average throughput: 602.88 Mbit/s
95th percentile per-packet one-way delay: 268.224 ms
Loss rate: 23.76%
```

Run 1: Report of FillP — Data Link



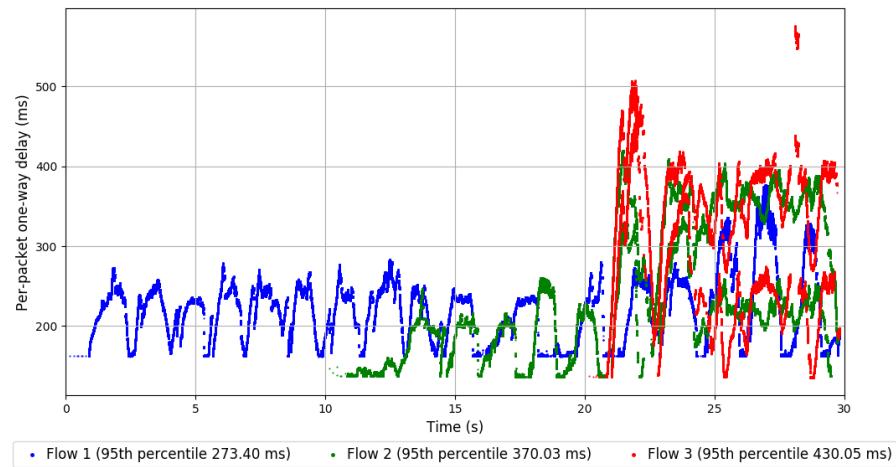
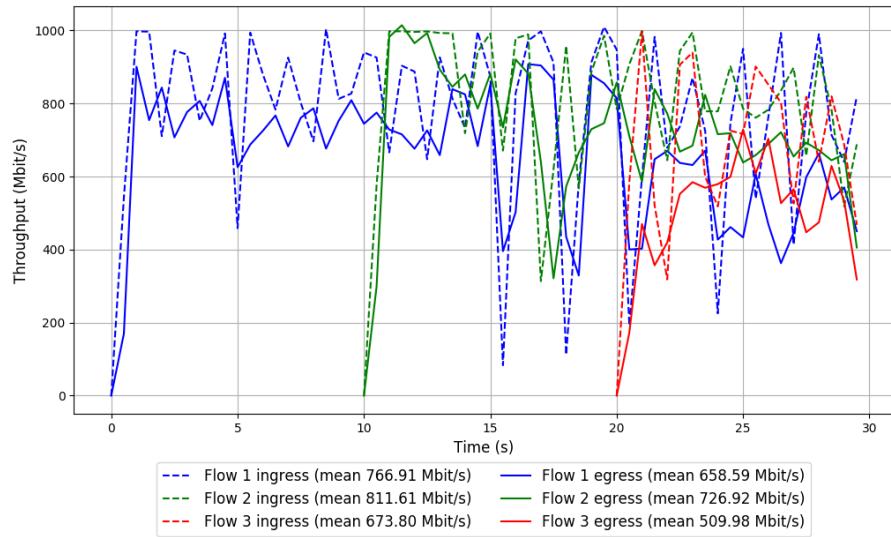
Run 2: Statistics of FillP

Start at: 2018-01-18 02:17:08

End at: 2018-01-18 02:17:38

```
# Below is generated by plot.py at 2018-01-18 09:26:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1306.43 Mbit/s
95th percentile per-packet one-way delay: 377.384 ms
Loss rate: 15.47%
-- Flow 1:
Average throughput: 658.59 Mbit/s
95th percentile per-packet one-way delay: 273.401 ms
Loss rate: 14.98%
-- Flow 2:
Average throughput: 726.92 Mbit/s
95th percentile per-packet one-way delay: 370.026 ms
Loss rate: 11.70%
-- Flow 3:
Average throughput: 509.98 Mbit/s
95th percentile per-packet one-way delay: 430.046 ms
Loss rate: 26.27%
```

Run 2: Report of FillP — Data Link



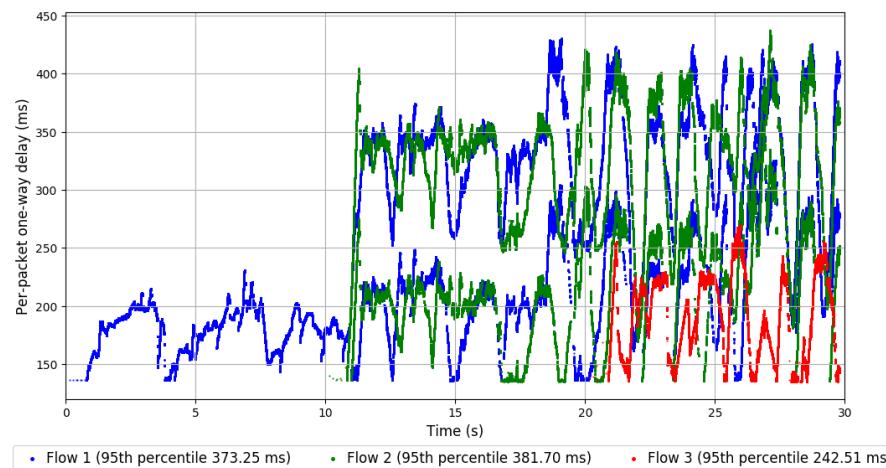
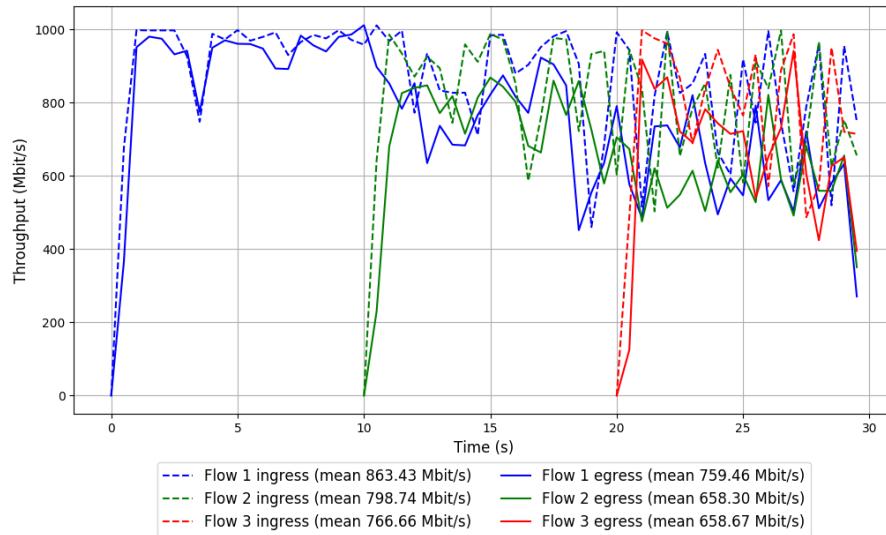
```
Run 3: Statistics of FillP
```

```
Start at: 2018-01-18 02:35:38
```

```
End at: 2018-01-18 02:36:08
```

```
# Below is generated by plot.py at 2018-01-18 09:27:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1409.39 Mbit/s
95th percentile per-packet one-way delay: 371.809 ms
Loss rate: 15.30%
-- Flow 1:
Average throughput: 759.46 Mbit/s
95th percentile per-packet one-way delay: 373.247 ms
Loss rate: 12.85%
-- Flow 2:
Average throughput: 658.30 Mbit/s
95th percentile per-packet one-way delay: 381.699 ms
Loss rate: 18.73%
-- Flow 3:
Average throughput: 658.67 Mbit/s
95th percentile per-packet one-way delay: 242.512 ms
Loss rate: 16.46%
```

### Run 3: Report of FillP — Data Link



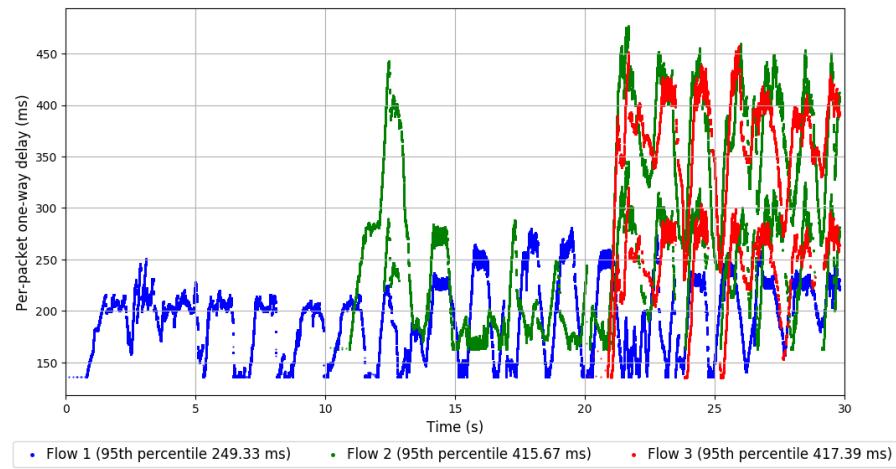
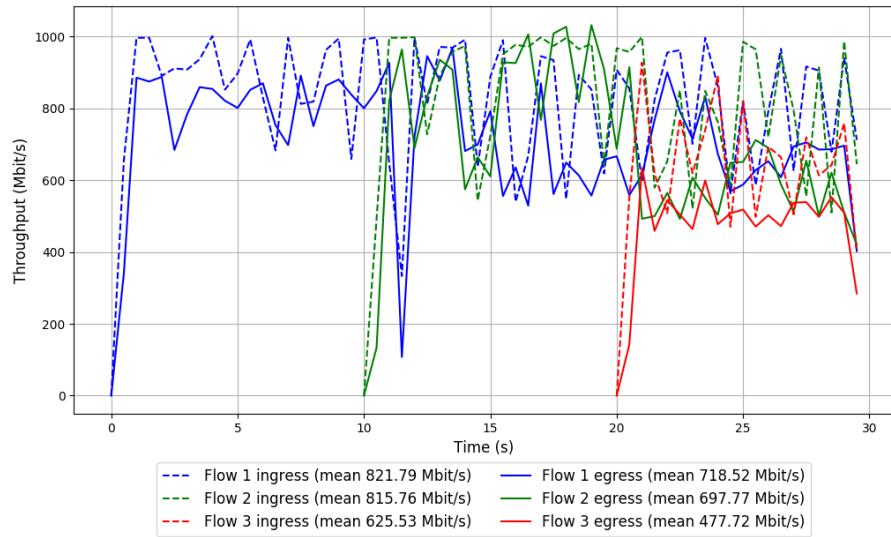
Run 4: Statistics of FillP

Start at: 2018-01-18 02:55:59

End at: 2018-01-18 02:56:29

```
# Below is generated by plot.py at 2018-01-18 09:27:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1335.43 Mbit/s
95th percentile per-packet one-way delay: 397.270 ms
Loss rate: 15.82%
-- Flow 1:
Average throughput: 718.52 Mbit/s
95th percentile per-packet one-way delay: 249.327 ms
Loss rate: 13.35%
-- Flow 2:
Average throughput: 697.77 Mbit/s
95th percentile per-packet one-way delay: 415.666 ms
Loss rate: 15.76%
-- Flow 3:
Average throughput: 477.72 Mbit/s
95th percentile per-packet one-way delay: 417.395 ms
Loss rate: 25.74%
```

Run 4: Report of FillP — Data Link



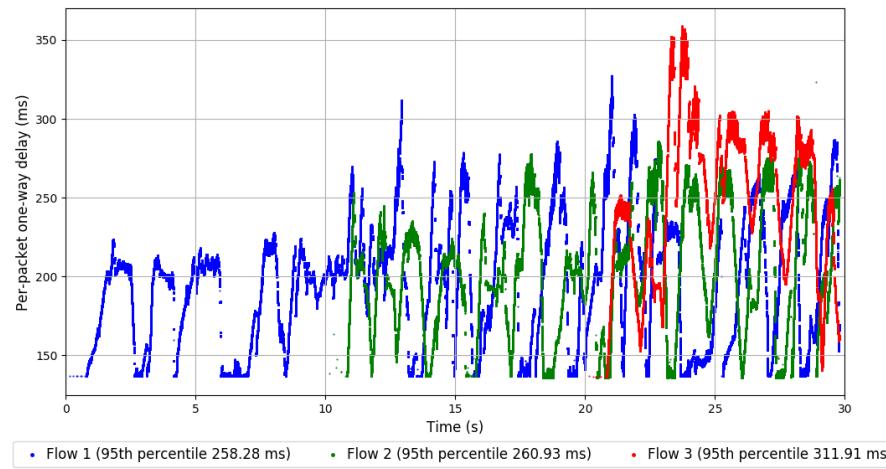
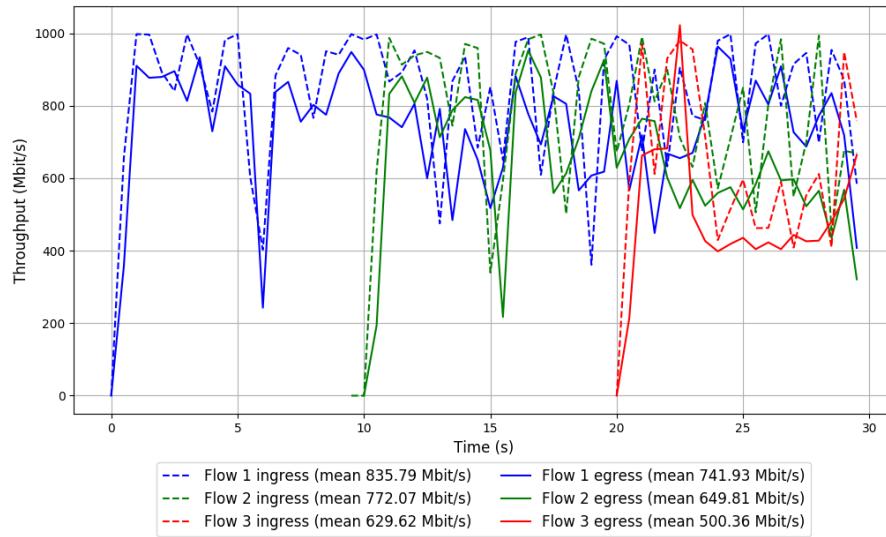
Run 5: Statistics of FillP

Start at: 2018-01-18 03:15:25

End at: 2018-01-18 03:15:55

```
# Below is generated by plot.py at 2018-01-18 09:27:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1335.40 Mbit/s
95th percentile per-packet one-way delay: 272.960 ms
Loss rate: 15.11%
-- Flow 1:
Average throughput: 741.93 Mbit/s
95th percentile per-packet one-way delay: 258.277 ms
Loss rate: 12.05%
-- Flow 2:
Average throughput: 649.81 Mbit/s
95th percentile per-packet one-way delay: 260.930 ms
Loss rate: 17.00%
-- Flow 3:
Average throughput: 500.36 Mbit/s
95th percentile per-packet one-way delay: 311.913 ms
Loss rate: 22.74%
```

Run 5: Report of FillP — Data Link



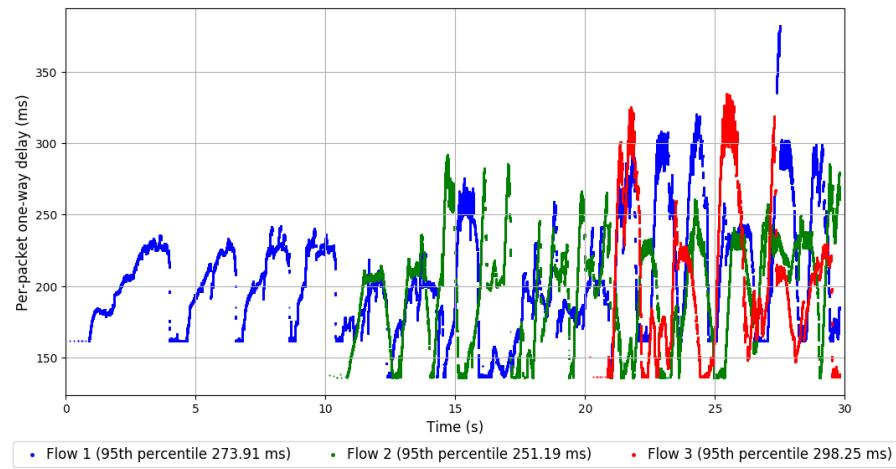
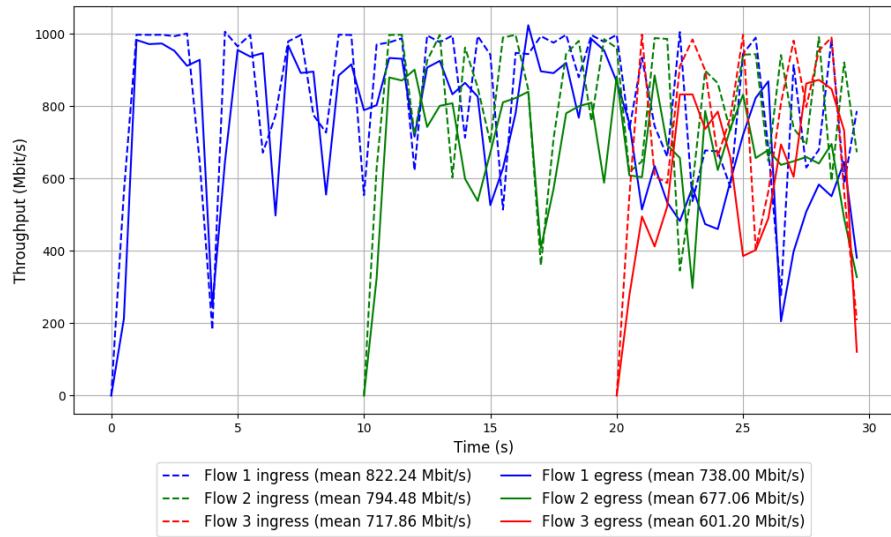
Run 6: Statistics of FillP

Start at: 2018-01-18 03:35:11

End at: 2018-01-18 03:35:41

```
# Below is generated by plot.py at 2018-01-18 09:28:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1381.92 Mbit/s
95th percentile per-packet one-way delay: 268.426 ms
Loss rate: 13.88%
-- Flow 1:
Average throughput: 738.00 Mbit/s
95th percentile per-packet one-way delay: 273.907 ms
Loss rate: 11.14%
-- Flow 2:
Average throughput: 677.06 Mbit/s
95th percentile per-packet one-way delay: 251.187 ms
Loss rate: 15.96%
-- Flow 3:
Average throughput: 601.20 Mbit/s
95th percentile per-packet one-way delay: 298.246 ms
Loss rate: 18.76%
```

Run 6: Report of FillP — Data Link



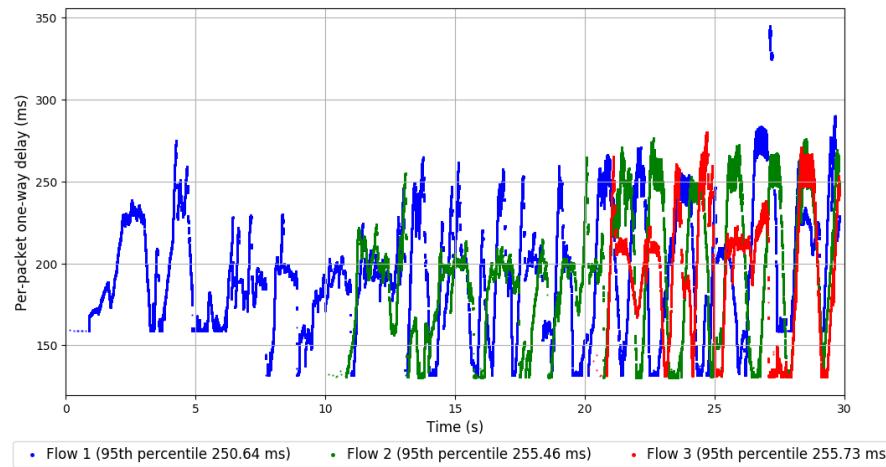
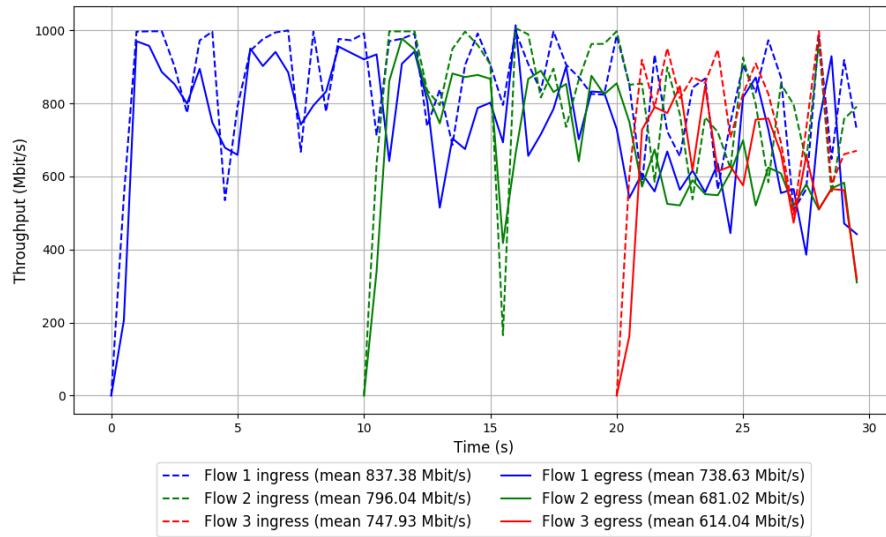
Run 7: Statistics of FillP

Start at: 2018-01-18 03:54:19

End at: 2018-01-18 03:54:49

```
# Below is generated by plot.py at 2018-01-18 09:28:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1390.11 Mbit/s
95th percentile per-packet one-way delay: 253.476 ms
Loss rate: 14.80%
-- Flow 1:
Average throughput: 738.63 Mbit/s
95th percentile per-packet one-way delay: 250.643 ms
Loss rate: 12.68%
-- Flow 2:
Average throughput: 681.02 Mbit/s
95th percentile per-packet one-way delay: 255.464 ms
Loss rate: 15.63%
-- Flow 3:
Average throughput: 614.04 Mbit/s
95th percentile per-packet one-way delay: 255.734 ms
Loss rate: 20.20%
```

### Run 7: Report of FillP — Data Link



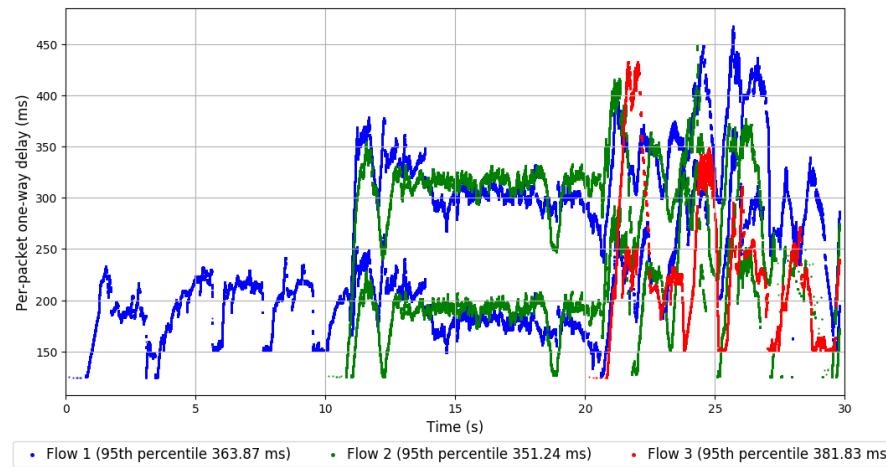
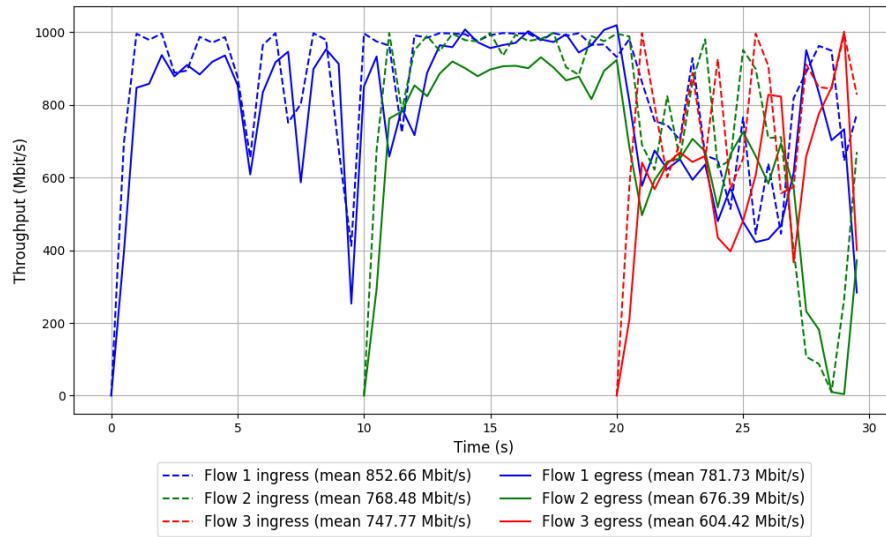
Run 8: Statistics of FillP

Start at: 2018-01-18 04:14:29

End at: 2018-01-18 04:14:59

```
# Below is generated by plot.py at 2018-01-18 09:29:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1426.31 Mbit/s
95th percentile per-packet one-way delay: 358.773 ms
Loss rate: 12.31%
-- Flow 1:
Average throughput: 781.73 Mbit/s
95th percentile per-packet one-way delay: 363.865 ms
Loss rate: 9.15%
-- Flow 2:
Average throughput: 676.39 Mbit/s
95th percentile per-packet one-way delay: 351.237 ms
Loss rate: 13.20%
-- Flow 3:
Average throughput: 604.42 Mbit/s
95th percentile per-packet one-way delay: 381.830 ms
Loss rate: 21.38%
```

### Run 8: Report of FillP — Data Link



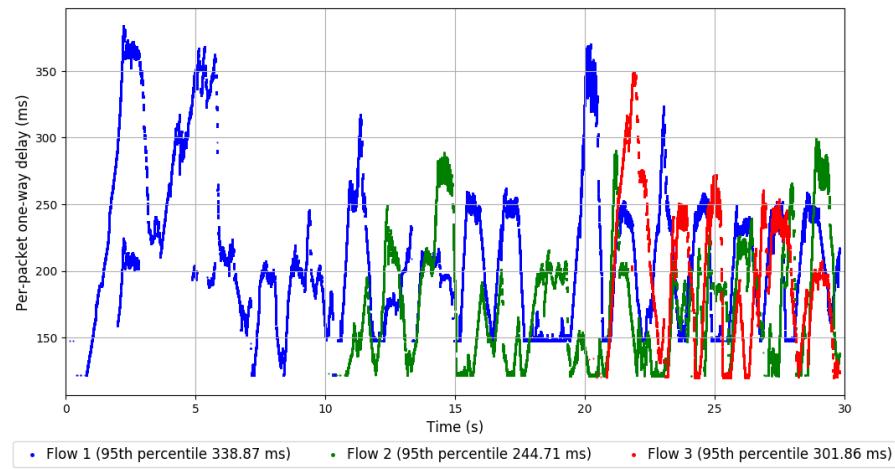
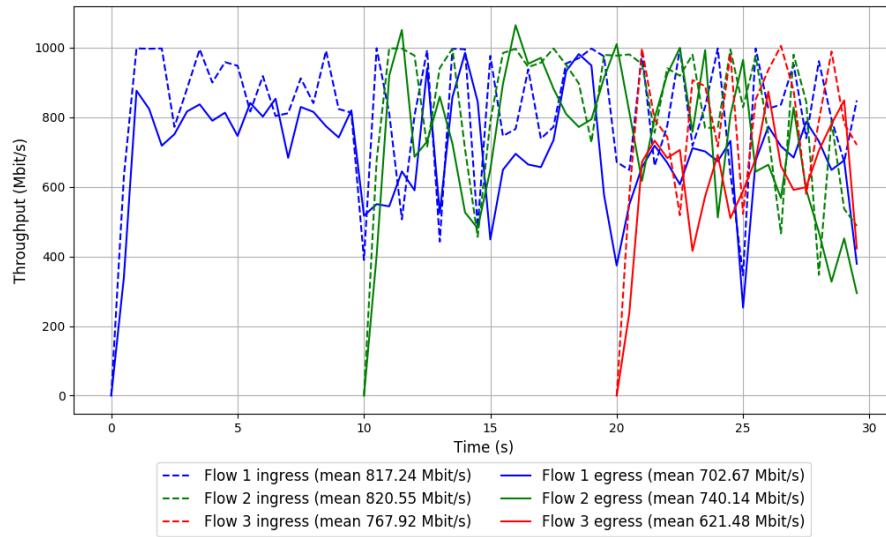
Run 9: Statistics of FillP

Start at: 2018-01-18 04:34:45

End at: 2018-01-18 04:35:15

```
# Below is generated by plot.py at 2018-01-18 09:53:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1395.50 Mbit/s
95th percentile per-packet one-way delay: 304.711 ms
Loss rate: 14.56%
-- Flow 1:
Average throughput: 702.67 Mbit/s
95th percentile per-packet one-way delay: 338.866 ms
Loss rate: 14.88%
-- Flow 2:
Average throughput: 740.14 Mbit/s
95th percentile per-packet one-way delay: 244.708 ms
Loss rate: 11.04%
-- Flow 3:
Average throughput: 621.48 Mbit/s
95th percentile per-packet one-way delay: 301.863 ms
Loss rate: 21.11%
```

Run 9: Report of FillP — Data Link



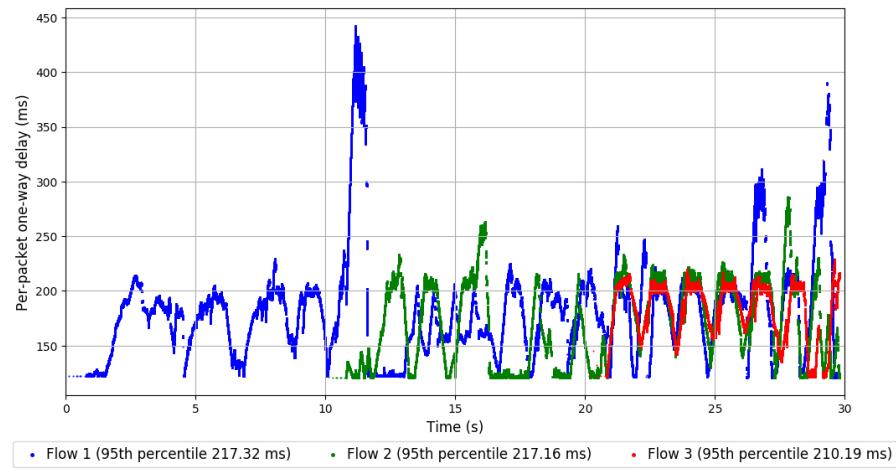
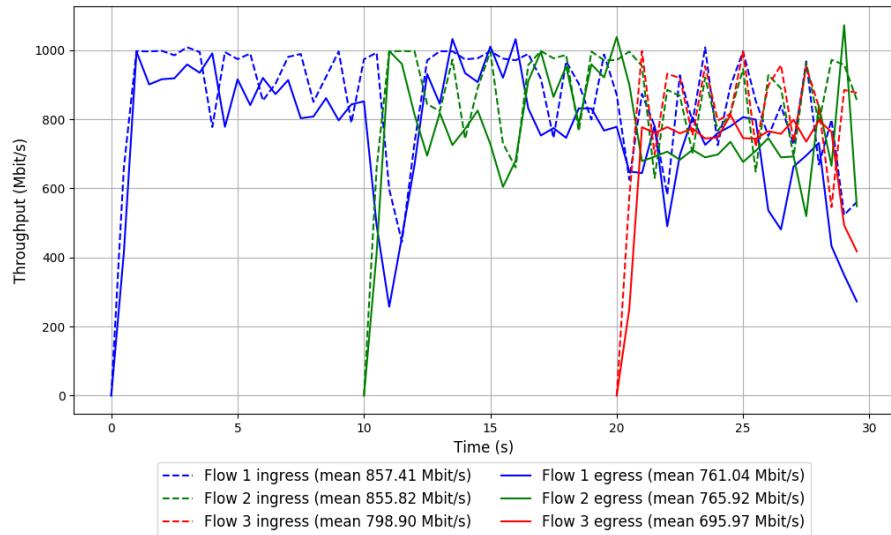
Run 10: Statistics of FillP

Start at: 2018-01-18 04:54:31

End at: 2018-01-18 04:55:01

```
# Below is generated by plot.py at 2018-01-18 09:56:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1494.59 Mbit/s
95th percentile per-packet one-way delay: 215.659 ms
Loss rate: 12.46%
-- Flow 1:
Average throughput: 761.04 Mbit/s
95th percentile per-packet one-way delay: 217.316 ms
Loss rate: 12.08%
-- Flow 2:
Average throughput: 765.92 Mbit/s
95th percentile per-packet one-way delay: 217.165 ms
Loss rate: 11.73%
-- Flow 3:
Average throughput: 695.97 Mbit/s
95th percentile per-packet one-way delay: 210.192 ms
Loss rate: 15.29%
```

Run 10: Report of FillP — Data Link



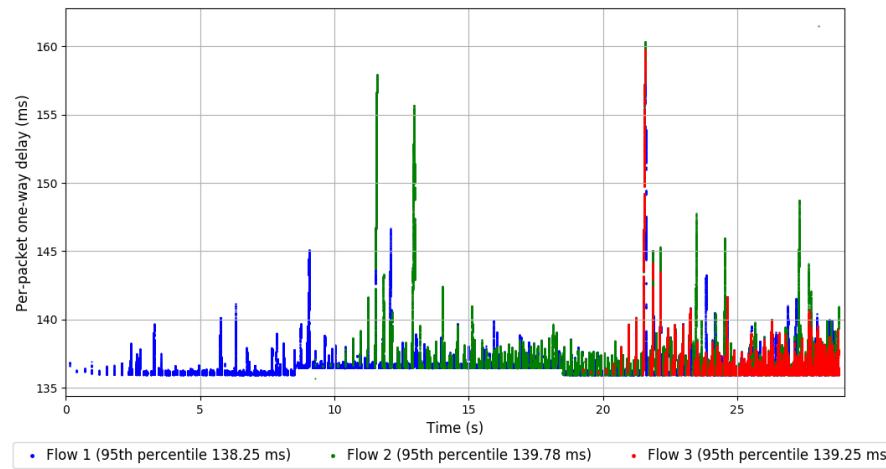
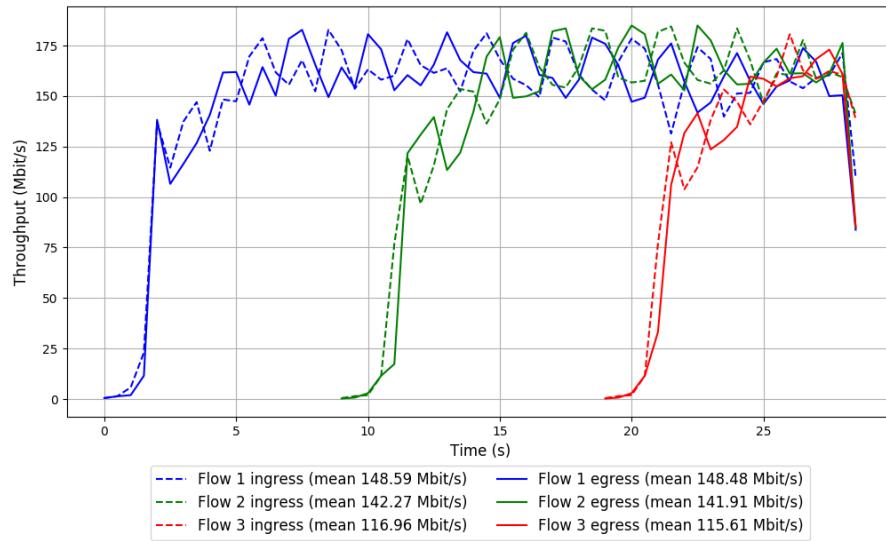
Run 1: Statistics of Indigo

Start at: 2018-01-18 01:51:16

End at: 2018-01-18 01:51:46

```
# Below is generated by plot.py at 2018-01-18 09:56:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 283.20 Mbit/s
95th percentile per-packet one-way delay: 138.803 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 148.48 Mbit/s
95th percentile per-packet one-way delay: 138.255 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 141.91 Mbit/s
95th percentile per-packet one-way delay: 139.775 ms
Loss rate: 1.62%
-- Flow 3:
Average throughput: 115.61 Mbit/s
95th percentile per-packet one-way delay: 139.247 ms
Loss rate: 3.93%
```

Run 1: Report of Indigo — Data Link



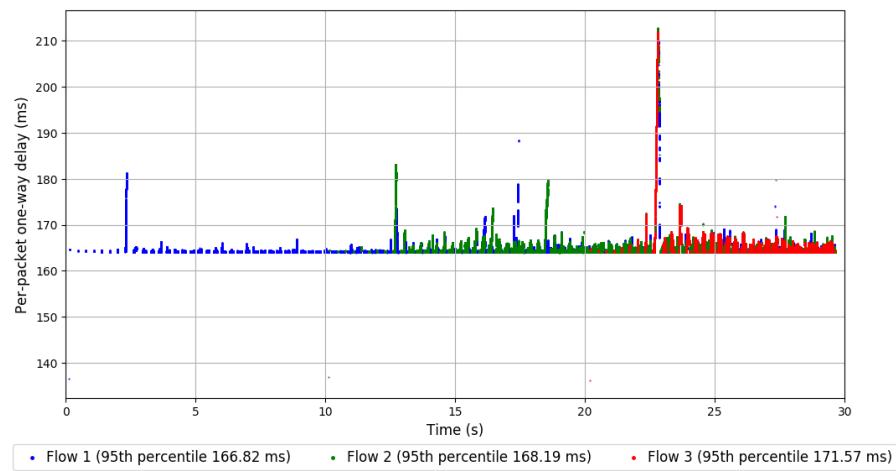
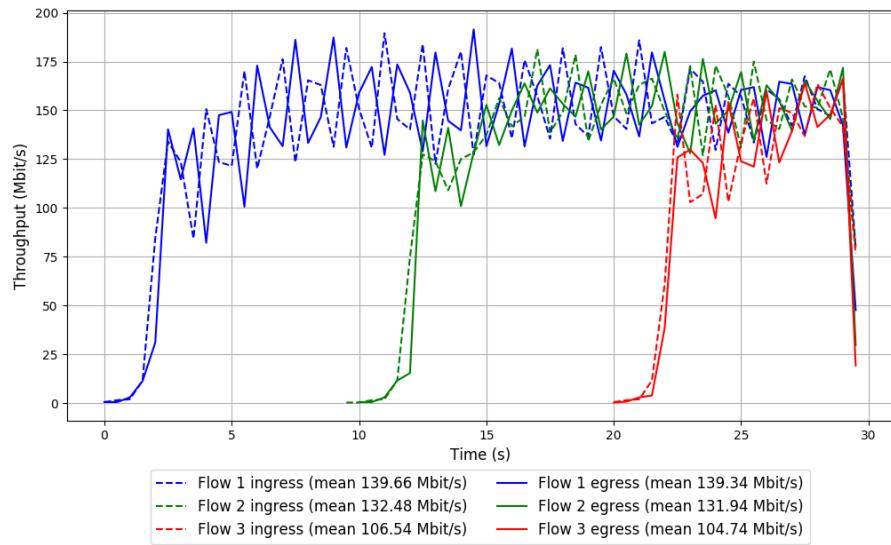
Run 2: Statistics of Indigo

Start at: 2018-01-18 02:10:15

End at: 2018-01-18 02:10:45

```
# Below is generated by plot.py at 2018-01-18 09:56:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 260.11 Mbit/s
95th percentile per-packet one-way delay: 167.635 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 139.34 Mbit/s
95th percentile per-packet one-way delay: 166.820 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 131.94 Mbit/s
95th percentile per-packet one-way delay: 168.186 ms
Loss rate: 1.79%
-- Flow 3:
Average throughput: 104.74 Mbit/s
95th percentile per-packet one-way delay: 171.567 ms
Loss rate: 4.45%
```

Run 2: Report of Indigo — Data Link



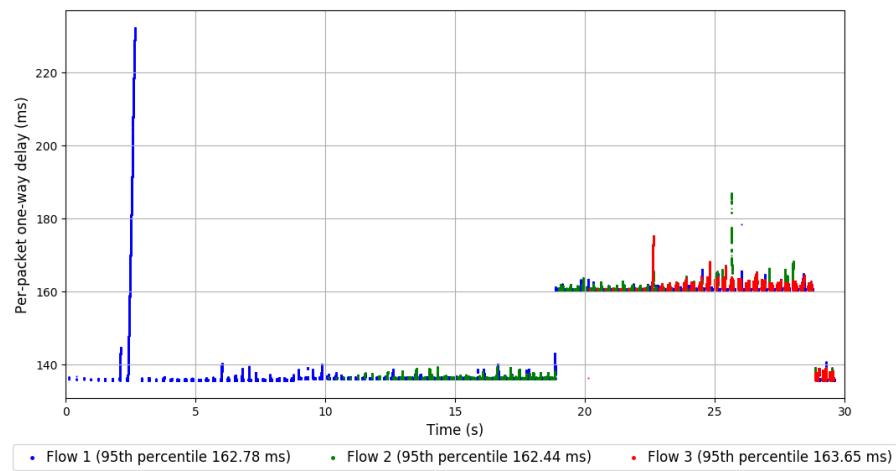
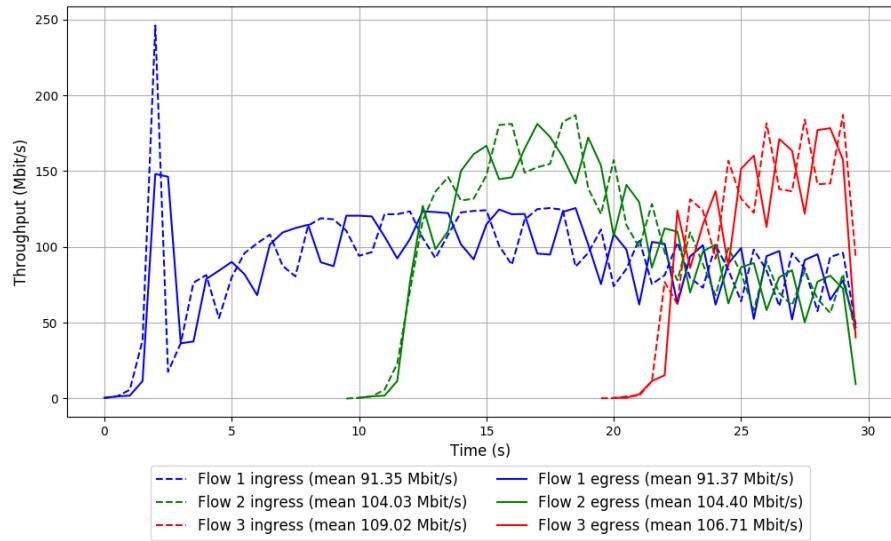
Run 3: Statistics of Indigo

Start at: 2018-01-18 02:28:36

End at: 2018-01-18 02:29:06

```
# Below is generated by plot.py at 2018-01-18 09:56:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 194.27 Mbit/s
95th percentile per-packet one-way delay: 162.971 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 91.37 Mbit/s
95th percentile per-packet one-way delay: 162.782 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 104.40 Mbit/s
95th percentile per-packet one-way delay: 162.440 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 106.71 Mbit/s
95th percentile per-packet one-way delay: 163.654 ms
Loss rate: 4.89%
```

Run 3: Report of Indigo — Data Link



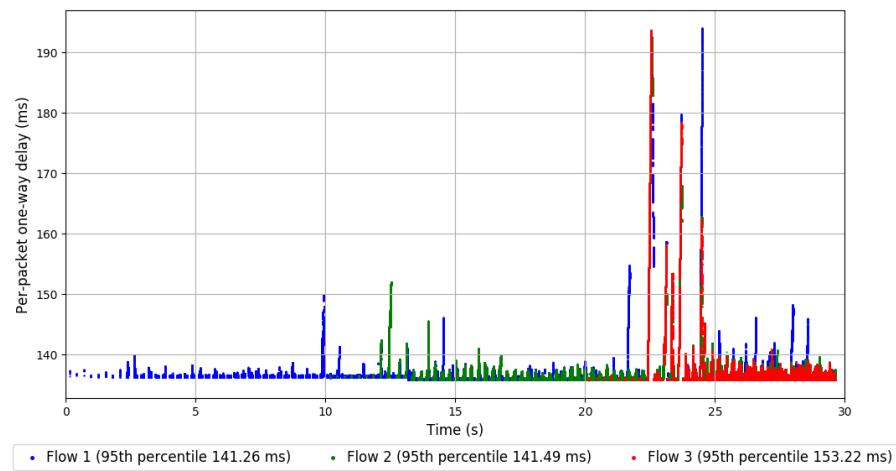
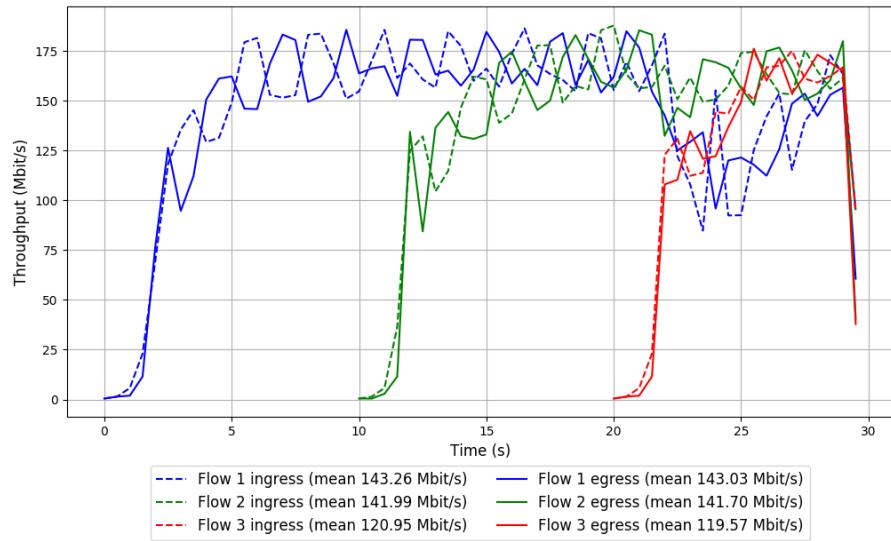
Run 4: Statistics of Indigo

Start at: 2018-01-18 02:48:12

End at: 2018-01-18 02:48:42

```
# Below is generated by plot.py at 2018-01-18 09:56:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 274.97 Mbit/s
95th percentile per-packet one-way delay: 142.999 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 143.03 Mbit/s
95th percentile per-packet one-way delay: 141.261 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 141.70 Mbit/s
95th percentile per-packet one-way delay: 141.493 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 119.57 Mbit/s
95th percentile per-packet one-way delay: 153.223 ms
Loss rate: 3.94%
```

Run 4: Report of Indigo — Data Link



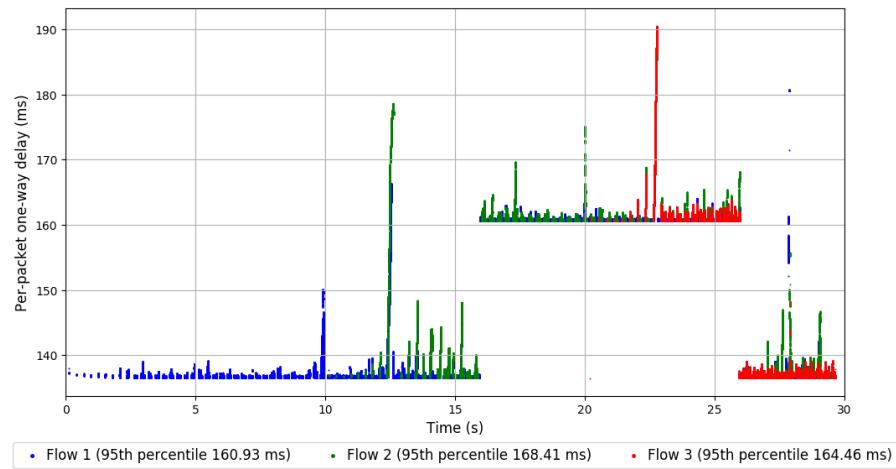
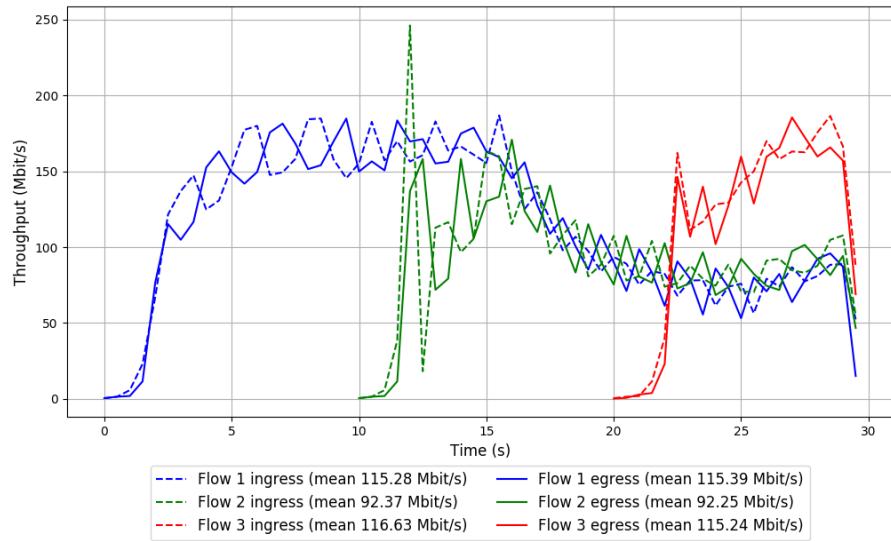
Run 5: Statistics of Indigo

Start at: 2018-01-18 03:08:09

End at: 2018-01-18 03:08:39

```
# Below is generated by plot.py at 2018-01-18 09:56:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 212.97 Mbit/s
95th percentile per-packet one-way delay: 161.934 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 115.39 Mbit/s
95th percentile per-packet one-way delay: 160.932 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 92.25 Mbit/s
95th percentile per-packet one-way delay: 168.411 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 115.24 Mbit/s
95th percentile per-packet one-way delay: 164.456 ms
Loss rate: 3.96%
```

Run 5: Report of Indigo — Data Link



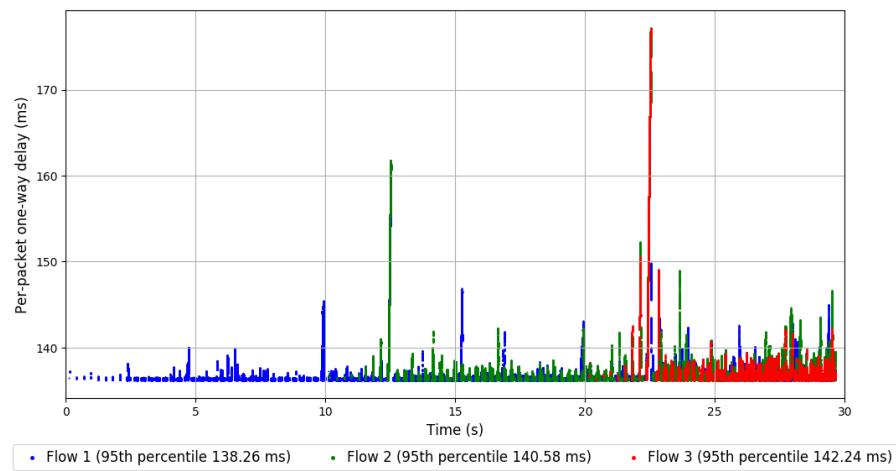
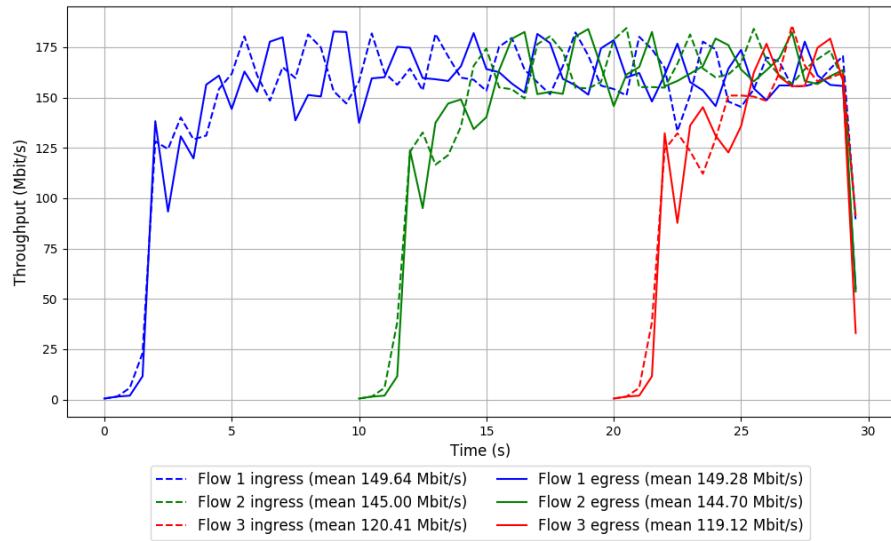
Run 6: Statistics of Indigo

Start at: 2018-01-18 03:27:30

End at: 2018-01-18 03:28:00

```
# Below is generated by plot.py at 2018-01-18 09:56:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 283.13 Mbit/s
95th percentile per-packet one-way delay: 139.365 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 149.28 Mbit/s
95th percentile per-packet one-way delay: 138.263 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 144.70 Mbit/s
95th percentile per-packet one-way delay: 140.582 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 119.12 Mbit/s
95th percentile per-packet one-way delay: 142.236 ms
Loss rate: 3.87%
```

## Run 6: Report of Indigo — Data Link



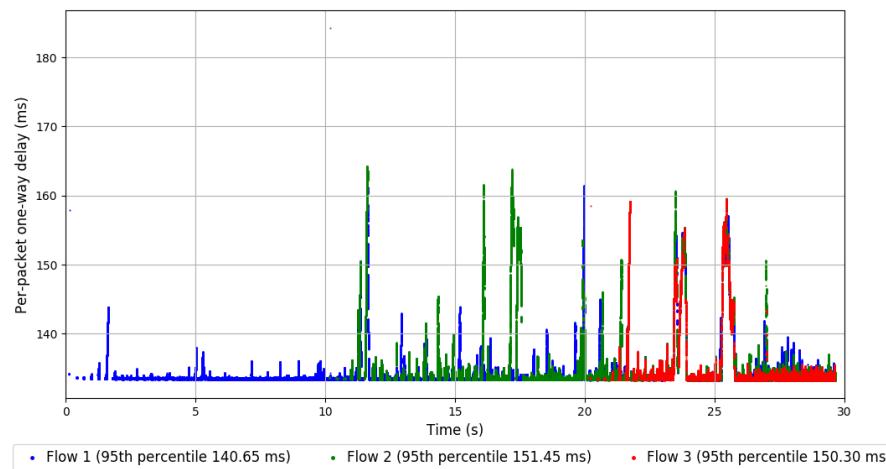
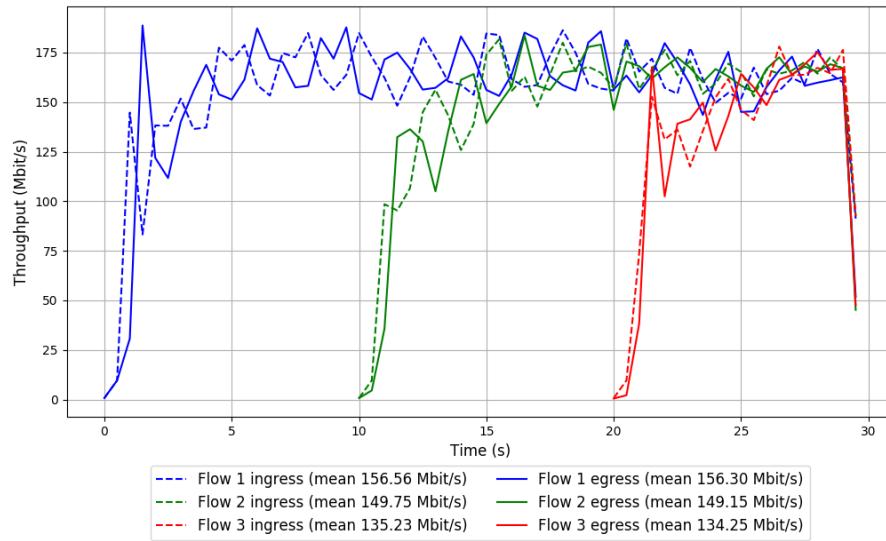
Run 7: Statistics of Indigo

Start at: 2018-01-18 03:47:07

End at: 2018-01-18 03:47:37

```
# Below is generated by plot.py at 2018-01-18 09:56:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 297.69 Mbit/s
95th percentile per-packet one-way delay: 146.957 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 156.30 Mbit/s
95th percentile per-packet one-way delay: 140.653 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 149.15 Mbit/s
95th percentile per-packet one-way delay: 151.449 ms
Loss rate: 1.78%
-- Flow 3:
Average throughput: 134.25 Mbit/s
95th percentile per-packet one-way delay: 150.304 ms
Loss rate: 3.52%
```

Run 7: Report of Indigo — Data Link



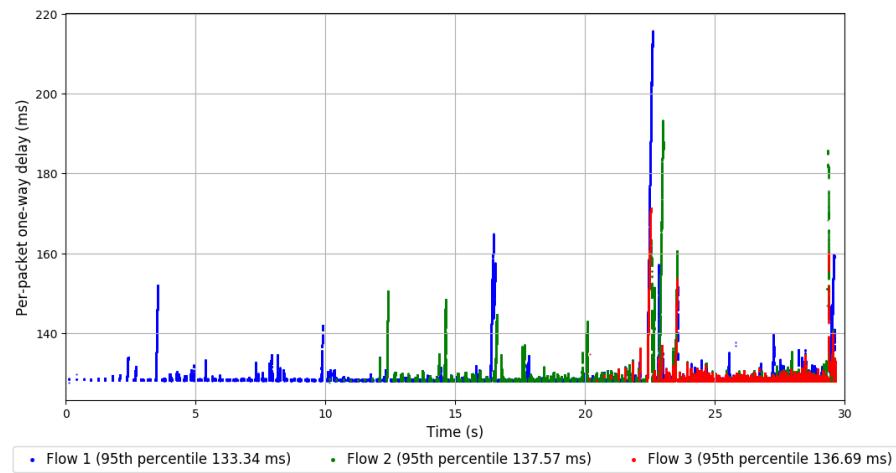
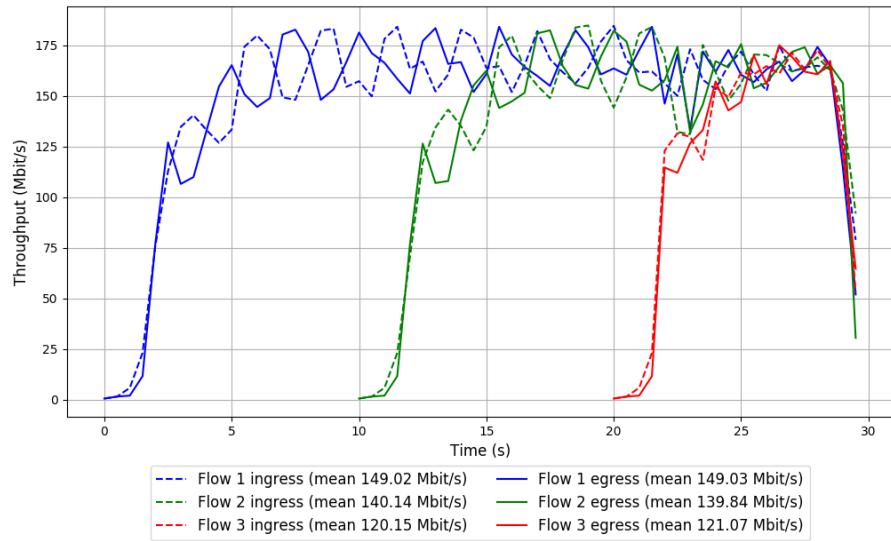
Run 8: Statistics of Indigo

Start at: 2018-01-18 04:06:56

End at: 2018-01-18 04:07:26

```
# Below is generated by plot.py at 2018-01-18 09:56:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 280.29 Mbit/s
95th percentile per-packet one-way delay: 134.877 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 149.03 Mbit/s
95th percentile per-packet one-way delay: 133.345 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 139.84 Mbit/s
95th percentile per-packet one-way delay: 137.574 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 121.07 Mbit/s
95th percentile per-packet one-way delay: 136.687 ms
Loss rate: 2.07%
```

## Run 8: Report of Indigo — Data Link



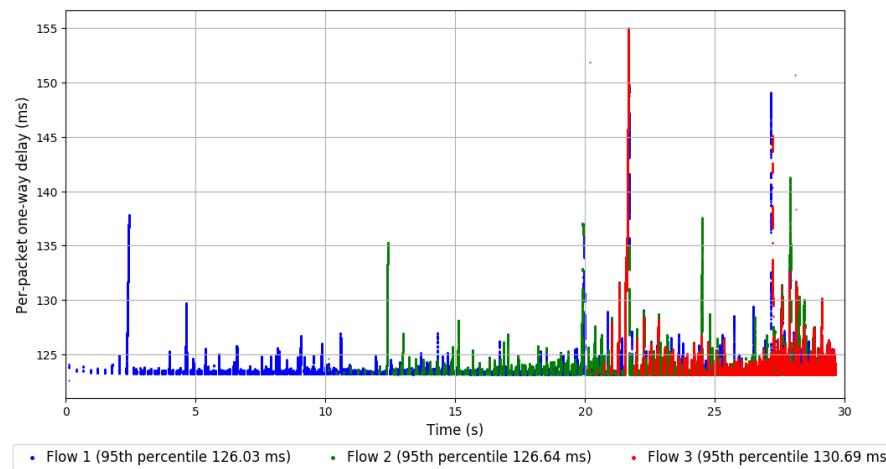
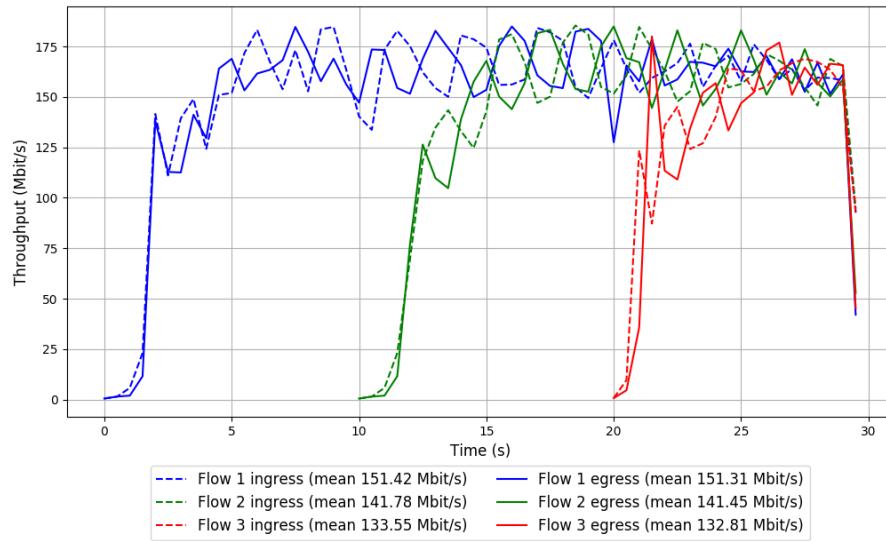
Run 9: Statistics of Indigo

Start at: 2018-01-18 04:27:15

End at: 2018-01-18 04:27:45

```
# Below is generated by plot.py at 2018-01-18 09:56:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 287.46 Mbit/s
95th percentile per-packet one-way delay: 126.660 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 151.31 Mbit/s
95th percentile per-packet one-way delay: 126.035 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 141.45 Mbit/s
95th percentile per-packet one-way delay: 126.641 ms
Loss rate: 1.62%
-- Flow 3:
Average throughput: 132.81 Mbit/s
95th percentile per-packet one-way delay: 130.687 ms
Loss rate: 3.35%
```

Run 9: Report of Indigo — Data Link



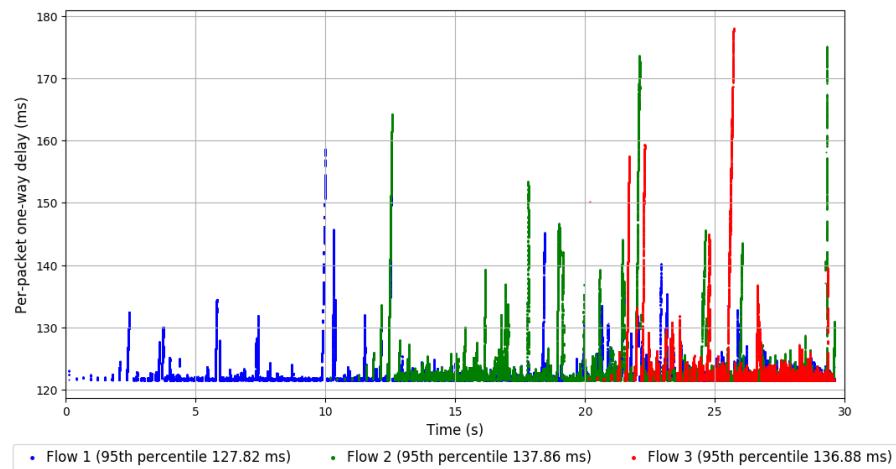
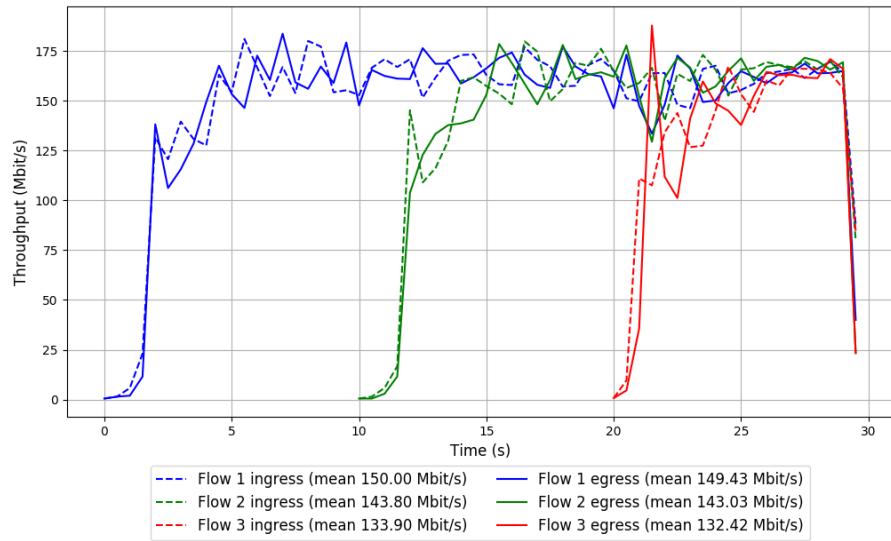
Run 10: Statistics of Indigo

Start at: 2018-01-18 04:46:58

End at: 2018-01-18 04:47:28

```
# Below is generated by plot.py at 2018-01-18 09:56:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 286.08 Mbit/s
95th percentile per-packet one-way delay: 131.631 ms
Loss rate: 1.83%
-- Flow 1:
Average throughput: 149.43 Mbit/s
95th percentile per-packet one-way delay: 127.820 ms
Loss rate: 1.29%
-- Flow 2:
Average throughput: 143.03 Mbit/s
95th percentile per-packet one-way delay: 137.863 ms
Loss rate: 1.91%
-- Flow 3:
Average throughput: 132.42 Mbit/s
95th percentile per-packet one-way delay: 136.875 ms
Loss rate: 3.53%
```

Run 10: Report of Indigo — Data Link

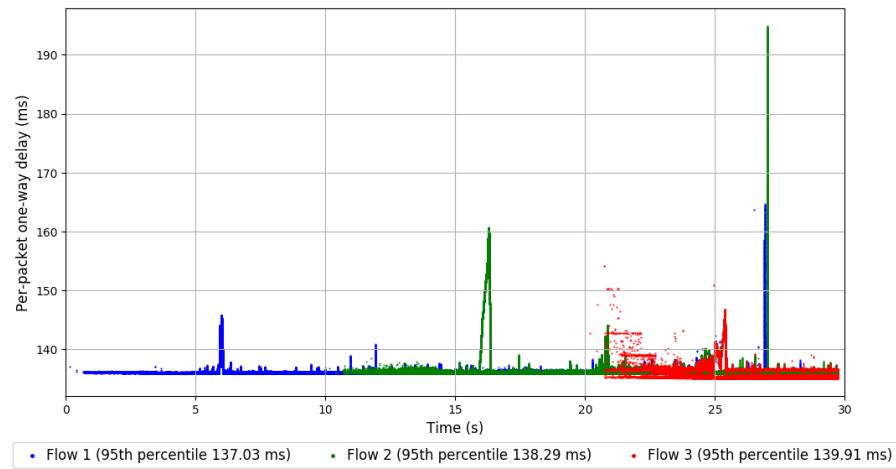
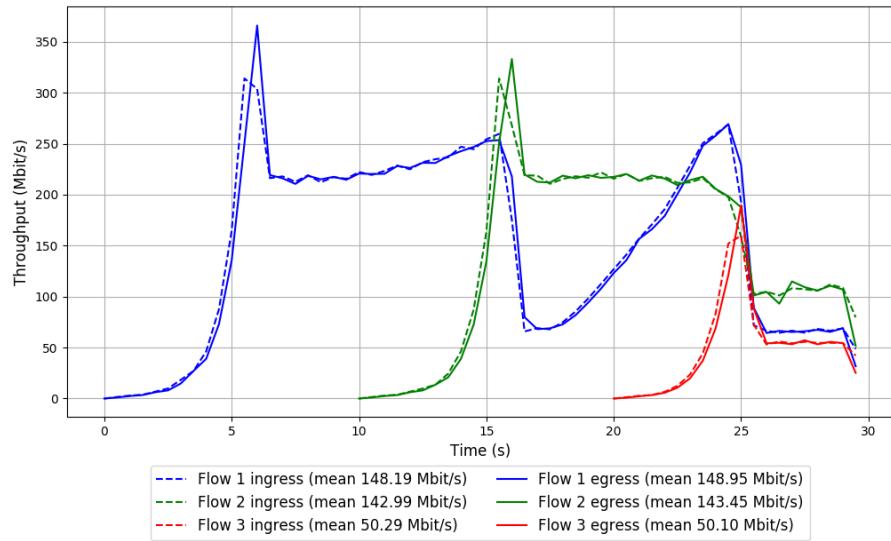


```
Run 1: Statistics of Vivace-latency

Start at: 2018-01-18 01:49:05
End at: 2018-01-18 01:49:35

# Below is generated by plot.py at 2018-01-18 09:56:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 260.03 Mbit/s
95th percentile per-packet one-way delay: 137.698 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 148.95 Mbit/s
95th percentile per-packet one-way delay: 137.033 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 143.45 Mbit/s
95th percentile per-packet one-way delay: 138.288 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 50.10 Mbit/s
95th percentile per-packet one-way delay: 139.905 ms
Loss rate: 3.21%
```

Run 1: Report of Vivace-latency — Data Link



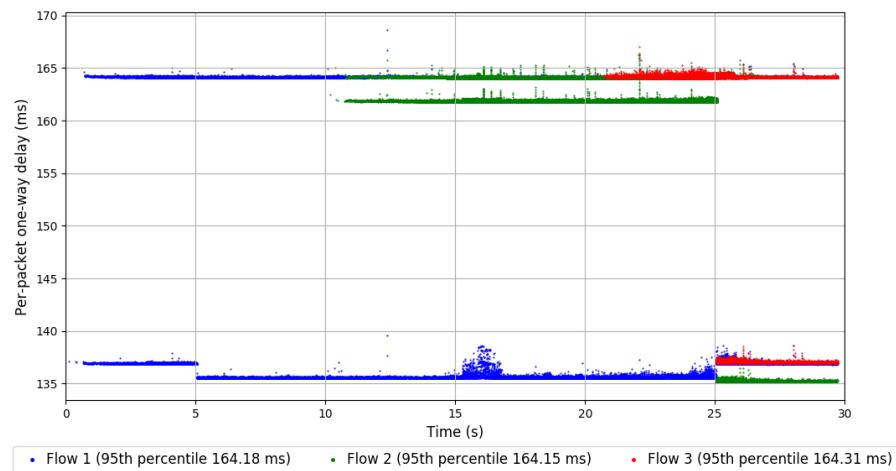
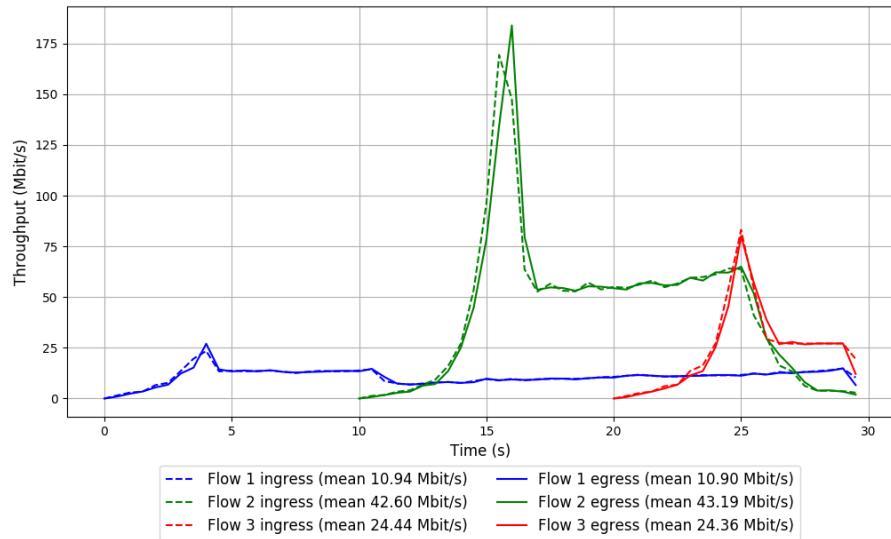
Run 2: Statistics of Vivace-latency

Start at: 2018-01-18 02:08:30

End at: 2018-01-18 02:09:00

```
# Below is generated by plot.py at 2018-01-18 09:56:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 47.29 Mbit/s
95th percentile per-packet one-way delay: 164.180 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 10.90 Mbit/s
95th percentile per-packet one-way delay: 164.175 ms
Loss rate: 1.30%
-- Flow 2:
Average throughput: 43.19 Mbit/s
95th percentile per-packet one-way delay: 164.152 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 24.36 Mbit/s
95th percentile per-packet one-way delay: 164.312 ms
Loss rate: 3.36%
```

Run 2: Report of Vivace-latency — Data Link



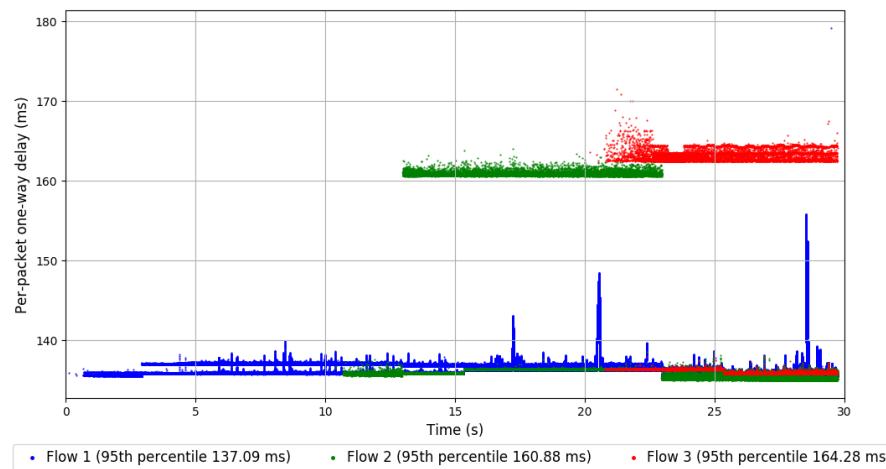
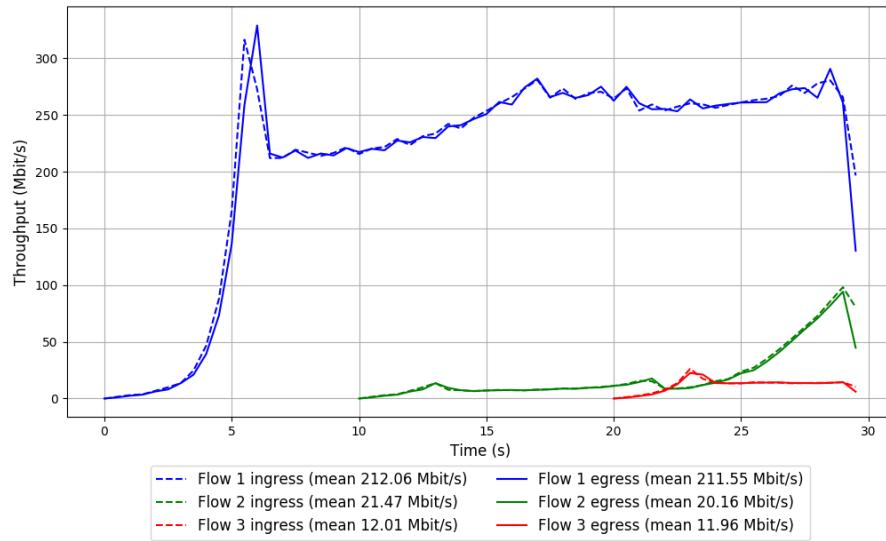
Run 3: Statistics of Vivace-latency

Start at: 2018-01-18 02:26:30

End at: 2018-01-18 02:27:00

```
# Below is generated by plot.py at 2018-01-18 09:56:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 228.74 Mbit/s
95th percentile per-packet one-way delay: 137.115 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 211.55 Mbit/s
95th percentile per-packet one-way delay: 137.089 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 20.16 Mbit/s
95th percentile per-packet one-way delay: 160.876 ms
Loss rate: 7.39%
-- Flow 3:
Average throughput: 11.96 Mbit/s
95th percentile per-packet one-way delay: 164.279 ms
Loss rate: 3.45%
```

Run 3: Report of Vivace-latency — Data Link



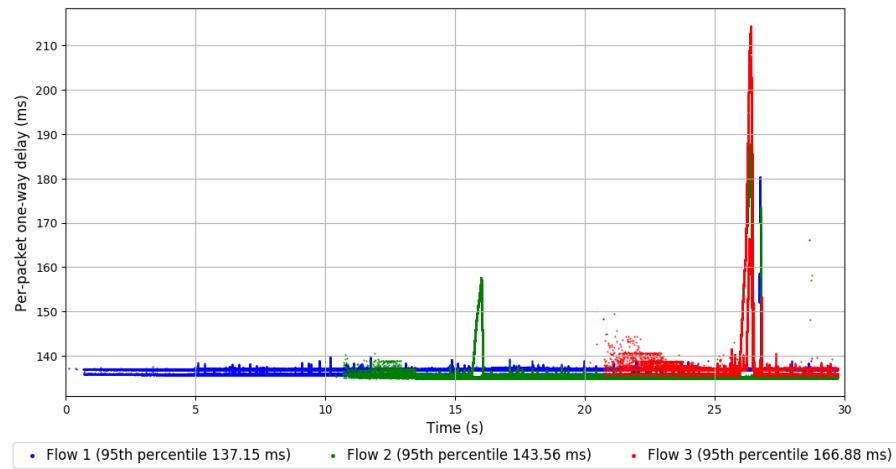
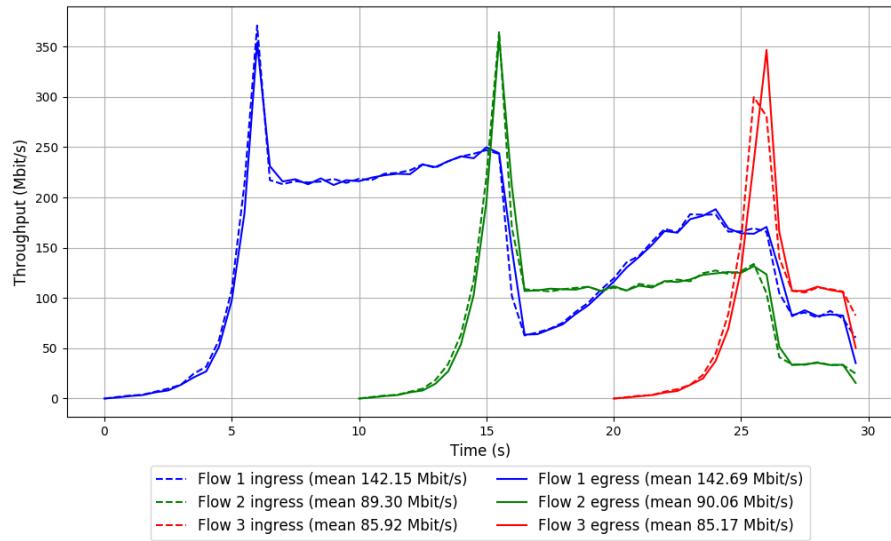
Run 4: Statistics of Vivace-latency

Start at: 2018-01-18 02:46:05

End at: 2018-01-18 02:46:35

```
# Below is generated by plot.py at 2018-01-18 09:56:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 229.78 Mbit/s
95th percentile per-packet one-way delay: 139.456 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 142.69 Mbit/s
95th percentile per-packet one-way delay: 137.153 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 90.06 Mbit/s
95th percentile per-packet one-way delay: 143.564 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 85.17 Mbit/s
95th percentile per-packet one-way delay: 166.878 ms
Loss rate: 3.67%
```

Run 4: Report of Vivace-latency — Data Link



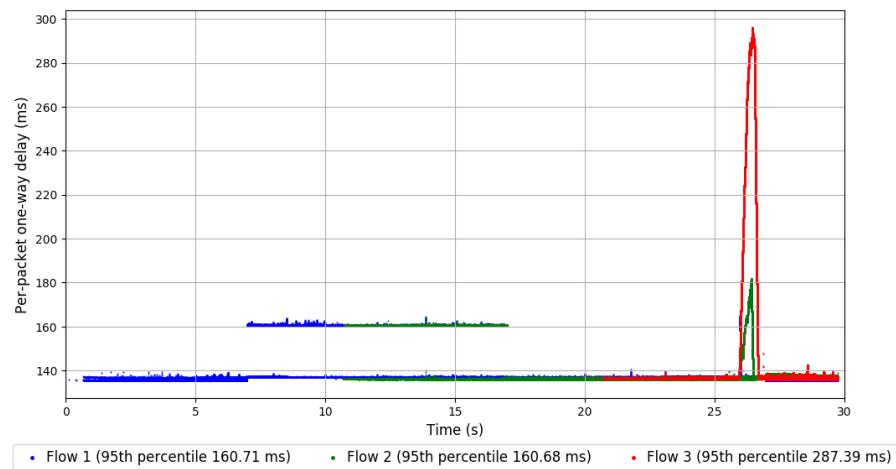
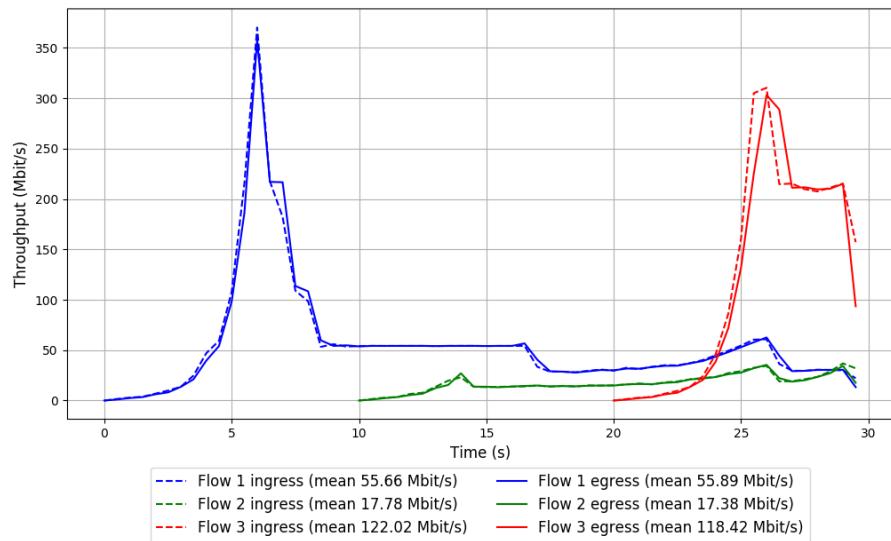
Run 5: Statistics of Vivace-latency

Start at: 2018-01-18 03:06:18

End at: 2018-01-18 03:06:48

```
# Below is generated by plot.py at 2018-01-18 09:56:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 105.67 Mbit/s
95th percentile per-packet one-way delay: 219.646 ms
Loss rate: 2.77%
-- Flow 1:
Average throughput: 55.89 Mbit/s
95th percentile per-packet one-way delay: 160.712 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 17.38 Mbit/s
95th percentile per-packet one-way delay: 160.678 ms
Loss rate: 3.56%
-- Flow 3:
Average throughput: 118.42 Mbit/s
95th percentile per-packet one-way delay: 287.395 ms
Loss rate: 5.66%
```

Run 5: Report of Vivace-latency — Data Link



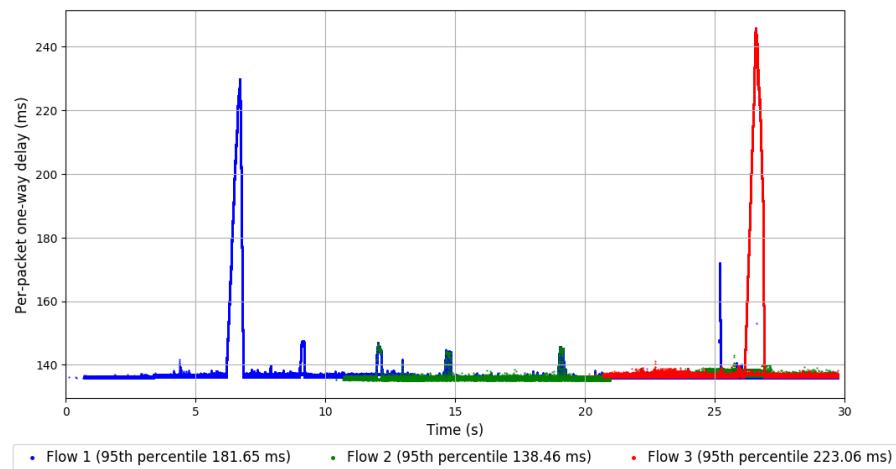
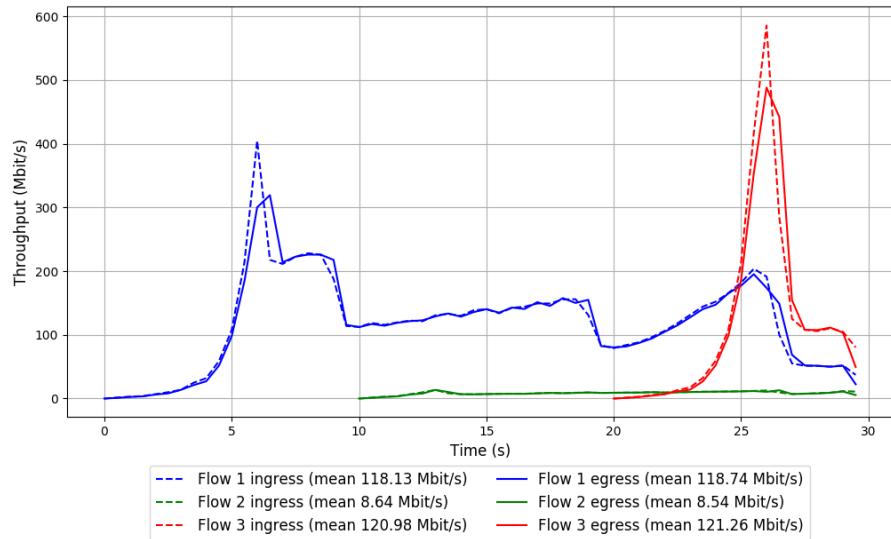
Run 6: Statistics of Vivace-latency

Start at: 2018-01-18 03:25:32

End at: 2018-01-18 03:26:02

```
# Below is generated by plot.py at 2018-01-18 09:56:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 163.61 Mbit/s
95th percentile per-packet one-way delay: 199.465 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 118.74 Mbit/s
95th percentile per-packet one-way delay: 181.648 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 8.54 Mbit/s
95th percentile per-packet one-way delay: 138.456 ms
Loss rate: 2.52%
-- Flow 3:
Average throughput: 121.26 Mbit/s
95th percentile per-packet one-way delay: 223.062 ms
Loss rate: 2.54%
```

Run 6: Report of Vivace-latency — Data Link



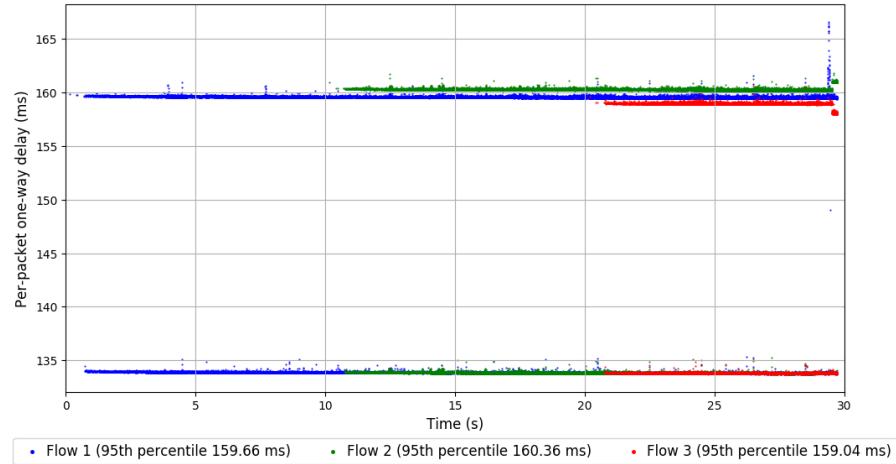
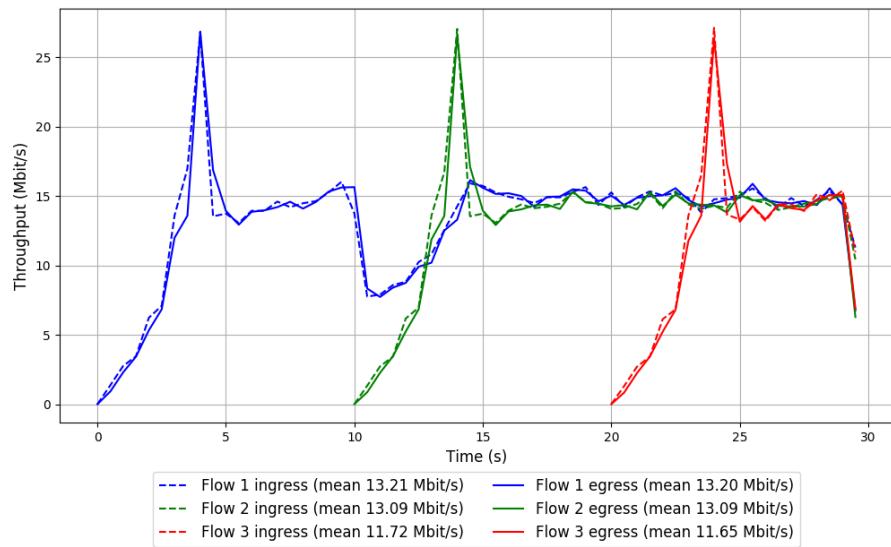
Run 7: Statistics of Vivace-latency

Start at: 2018-01-18 03:45:26

End at: 2018-01-18 03:45:56

```
# Below is generated by plot.py at 2018-01-18 09:56:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 25.61 Mbit/s
95th percentile per-packet one-way delay: 160.308 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 13.20 Mbit/s
95th percentile per-packet one-way delay: 159.664 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 13.09 Mbit/s
95th percentile per-packet one-way delay: 160.363 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 11.65 Mbit/s
95th percentile per-packet one-way delay: 159.040 ms
Loss rate: 3.61%
```

### Run 7: Report of Vivace-latency — Data Link



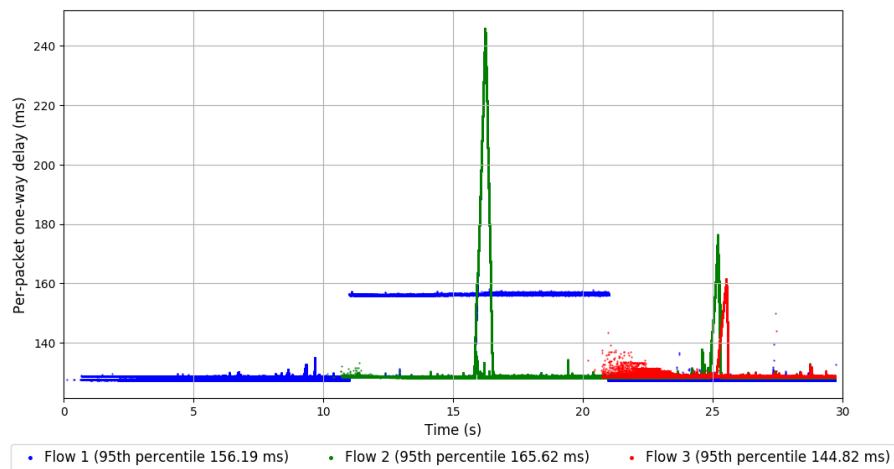
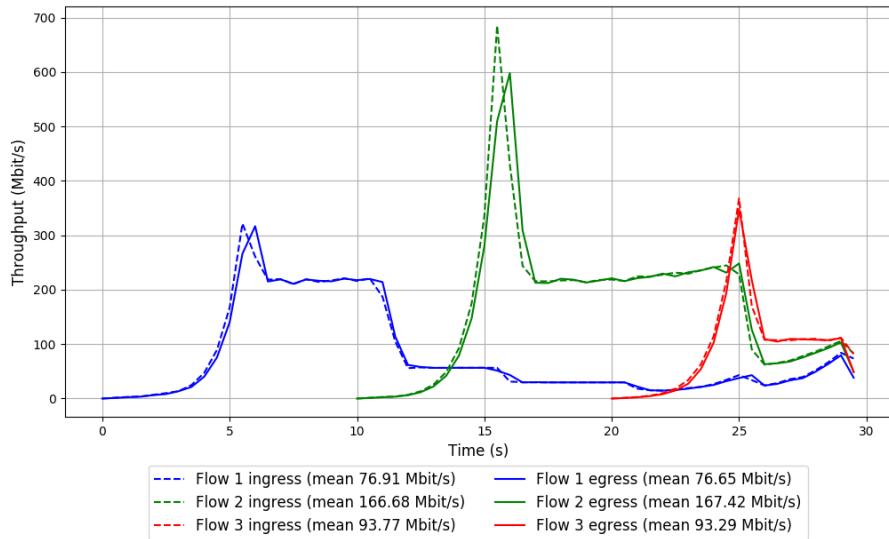
Run 8: Statistics of Vivace-latency

Start at: 2018-01-18 04:04:52

End at: 2018-01-18 04:05:22

```
# Below is generated by plot.py at 2018-01-18 09:56:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 217.49 Mbit/s
95th percentile per-packet one-way delay: 156.292 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 76.65 Mbit/s
95th percentile per-packet one-way delay: 156.185 ms
Loss rate: 1.24%
-- Flow 2:
Average throughput: 167.42 Mbit/s
95th percentile per-packet one-way delay: 165.620 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 93.29 Mbit/s
95th percentile per-packet one-way delay: 144.825 ms
Loss rate: 3.31%
```

### Run 8: Report of Vivace-latency — Data Link



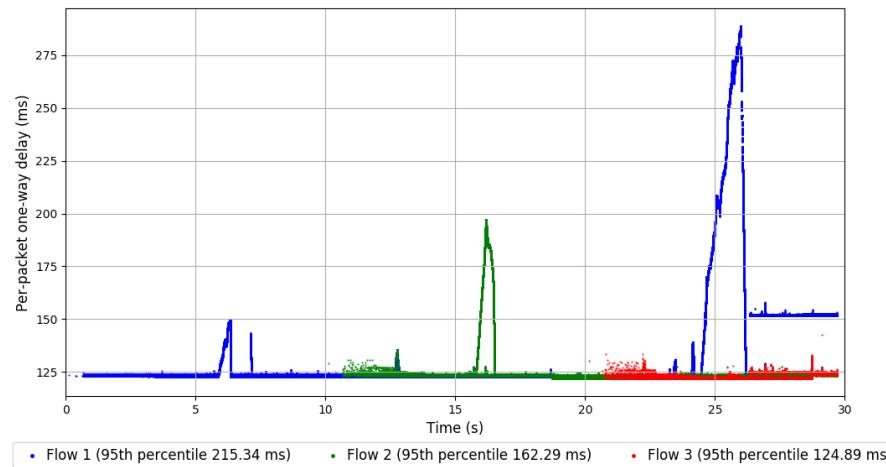
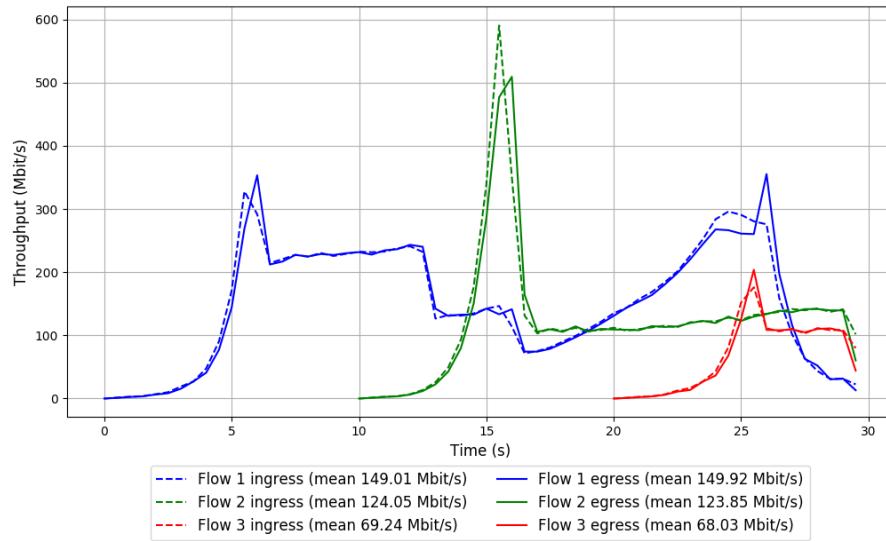
Run 9: Statistics of Vivace-latency

Start at: 2018-01-18 04:25:06

End at: 2018-01-18 04:25:36

```
# Below is generated by plot.py at 2018-01-18 09:56:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 253.82 Mbit/s
95th percentile per-packet one-way delay: 186.309 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 149.92 Mbit/s
95th percentile per-packet one-way delay: 215.337 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 123.85 Mbit/s
95th percentile per-packet one-way delay: 162.295 ms
Loss rate: 1.56%
-- Flow 3:
Average throughput: 68.03 Mbit/s
95th percentile per-packet one-way delay: 124.895 ms
Loss rate: 4.52%
```

## Run 9: Report of Vivace-latency — Data Link



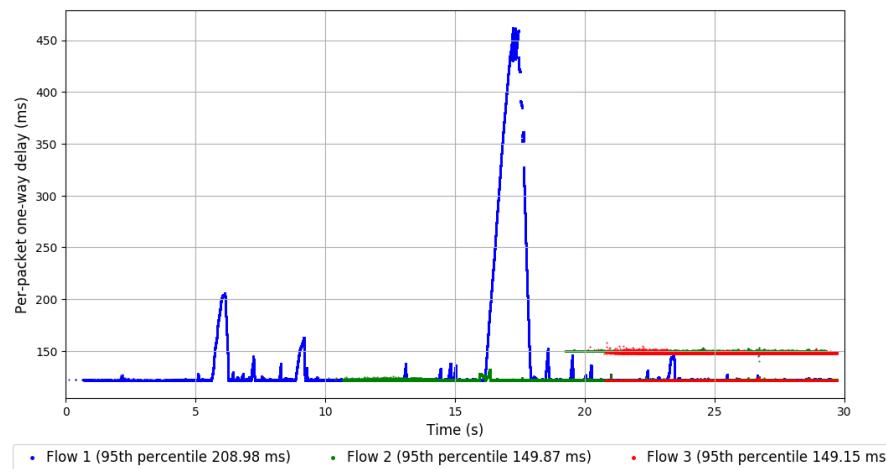
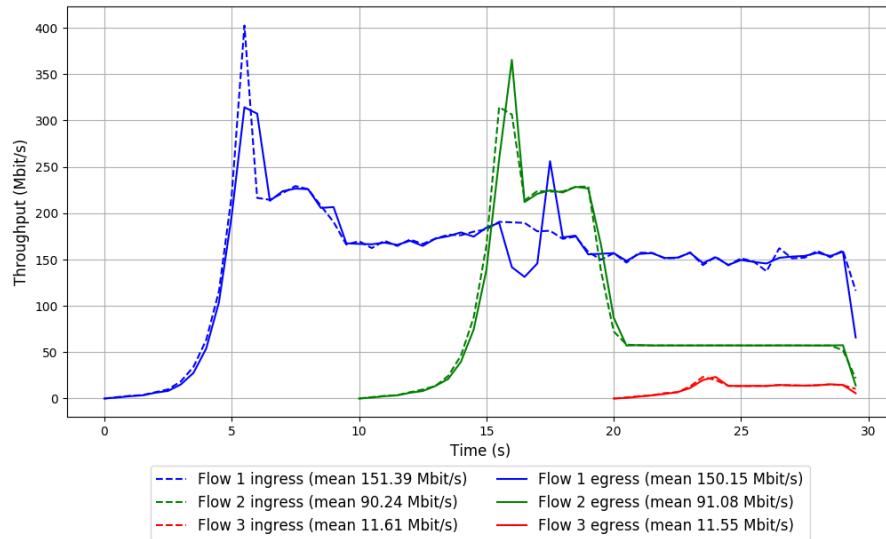
Run 10: Statistics of Vivace-latency

Start at: 2018-01-18 04:44:53

End at: 2018-01-18 04:45:23

```
# Below is generated by plot.py at 2018-01-18 09:56:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 214.13 Mbit/s
95th percentile per-packet one-way delay: 191.247 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 150.15 Mbit/s
95th percentile per-packet one-way delay: 208.981 ms
Loss rate: 1.73%
-- Flow 2:
Average throughput: 91.08 Mbit/s
95th percentile per-packet one-way delay: 149.872 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 11.55 Mbit/s
95th percentile per-packet one-way delay: 149.145 ms
Loss rate: 3.57%
```

Run 10: Report of Vivace-latency — Data Link

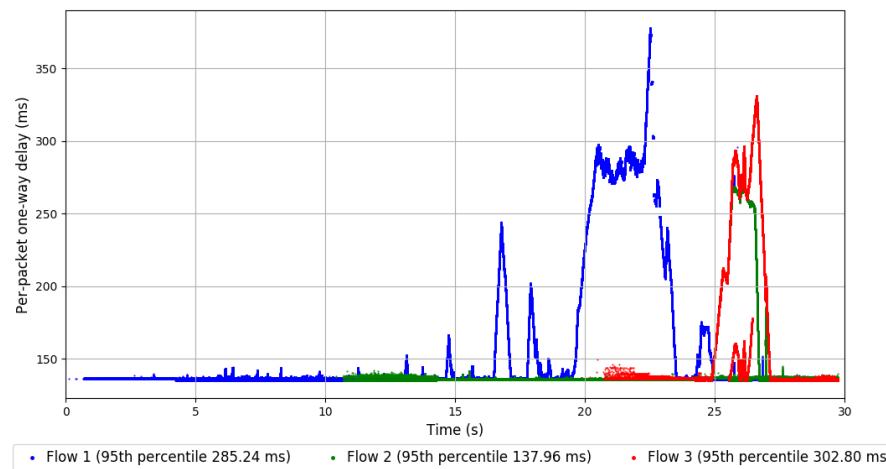
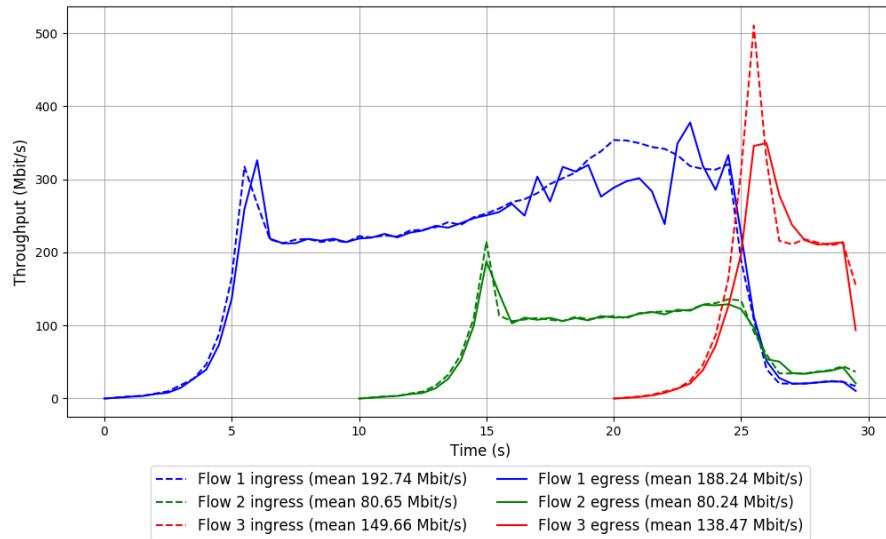


```
Run 1: Statistics of Vivace-loss

Start at: 2018-01-18 01:52:31
End at: 2018-01-18 01:53:01

# Below is generated by plot.py at 2018-01-18 09:56:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 285.97 Mbit/s
95th percentile per-packet one-way delay: 285.542 ms
Loss rate: 4.11%
-- Flow 1:
Average throughput: 188.24 Mbit/s
95th percentile per-packet one-way delay: 285.244 ms
Loss rate: 3.23%
-- Flow 2:
Average throughput: 80.24 Mbit/s
95th percentile per-packet one-way delay: 137.957 ms
Loss rate: 1.85%
-- Flow 3:
Average throughput: 138.47 Mbit/s
95th percentile per-packet one-way delay: 302.801 ms
Loss rate: 10.05%
```

Run 1: Report of Vivace-loss — Data Link



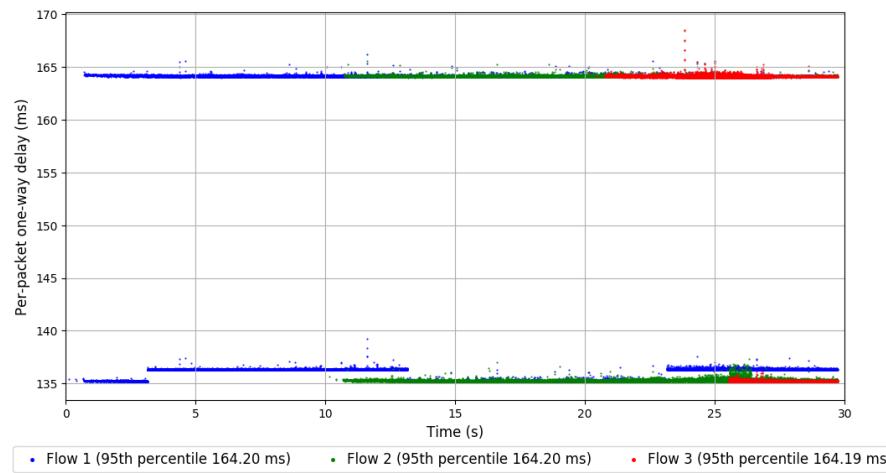
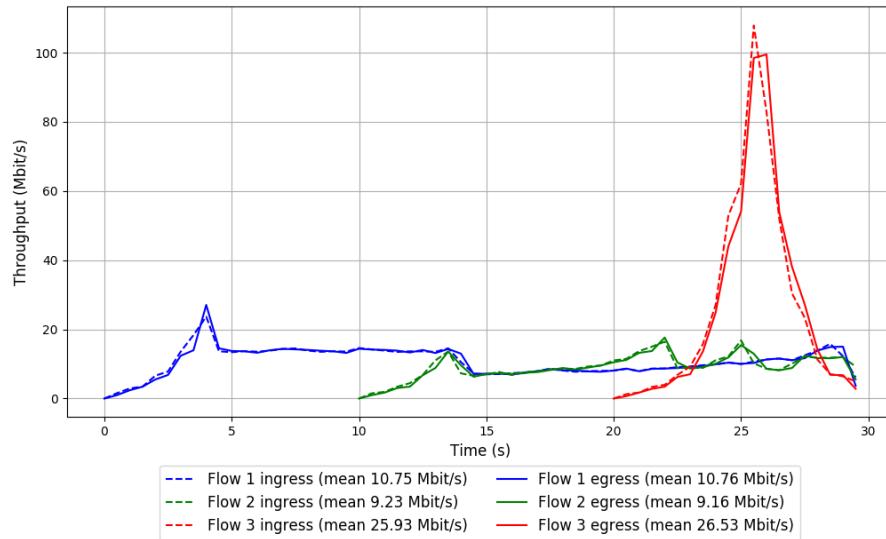
Run 2: Statistics of Vivace-loss

Start at: 2018-01-18 02:11:29

End at: 2018-01-18 02:11:59

```
# Below is generated by plot.py at 2018-01-18 09:56:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 25.38 Mbit/s
95th percentile per-packet one-way delay: 164.201 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 10.76 Mbit/s
95th percentile per-packet one-way delay: 164.204 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 9.16 Mbit/s
95th percentile per-packet one-way delay: 164.201 ms
Loss rate: 2.10%
-- Flow 3:
Average throughput: 26.53 Mbit/s
95th percentile per-packet one-way delay: 164.194 ms
Loss rate: 0.82%
```

Run 2: Report of Vivace-loss — Data Link



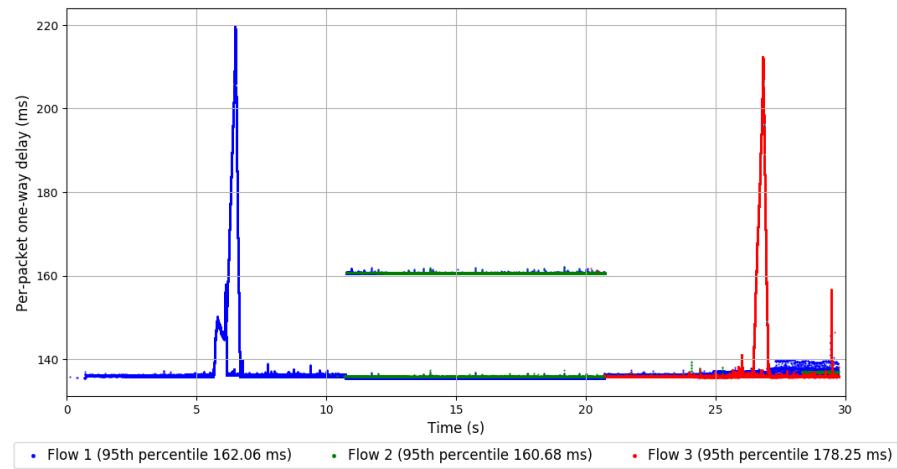
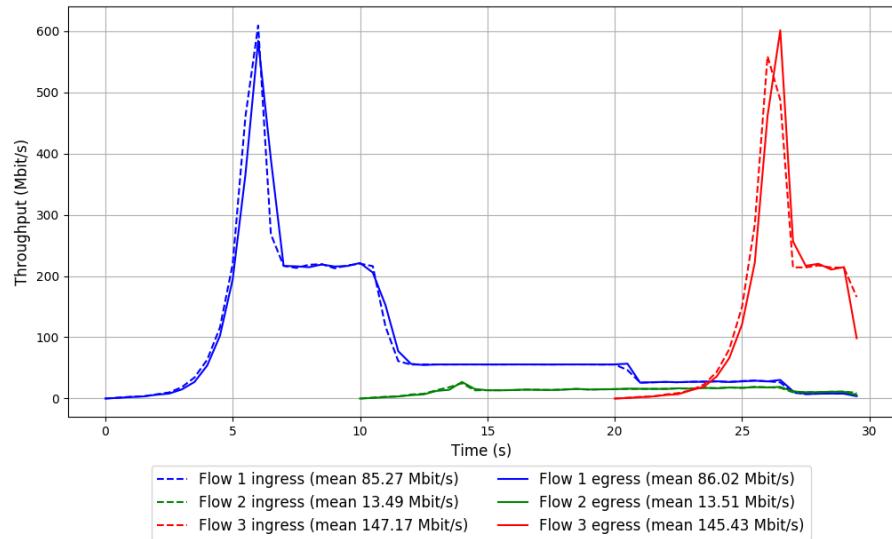
```
Run 3: Statistics of Vivace-loss
```

```
Start at: 2018-01-18 02:29:44
```

```
End at: 2018-01-18 02:30:14
```

```
# Below is generated by plot.py at 2018-01-18 09:56:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 141.87 Mbit/s
95th percentile per-packet one-way delay: 169.142 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 86.02 Mbit/s
95th percentile per-packet one-way delay: 162.058 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 13.51 Mbit/s
95th percentile per-packet one-way delay: 160.676 ms
Loss rate: 1.35%
-- Flow 3:
Average throughput: 145.43 Mbit/s
95th percentile per-packet one-way delay: 178.249 ms
Loss rate: 4.34%
```

### Run 3: Report of Vivace-loss — Data Link



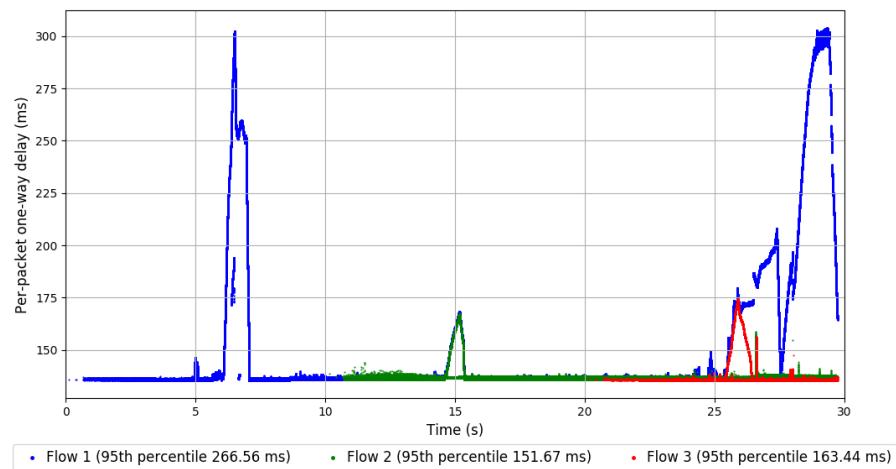
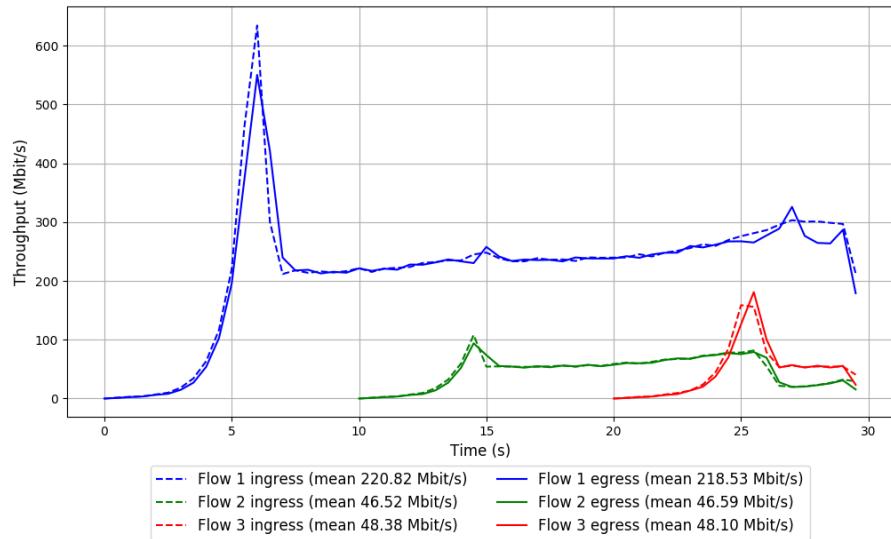
Run 4: Statistics of Vivace-loss

Start at: 2018-01-18 02:49:26

End at: 2018-01-18 02:49:56

```
# Below is generated by plot.py at 2018-01-18 09:56:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 264.87 Mbit/s
95th percentile per-packet one-way delay: 257.907 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 218.53 Mbit/s
95th percentile per-packet one-way delay: 266.559 ms
Loss rate: 1.94%
-- Flow 2:
Average throughput: 46.59 Mbit/s
95th percentile per-packet one-way delay: 151.673 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 48.10 Mbit/s
95th percentile per-packet one-way delay: 163.439 ms
Loss rate: 3.31%
```

Run 4: Report of Vivace-loss — Data Link



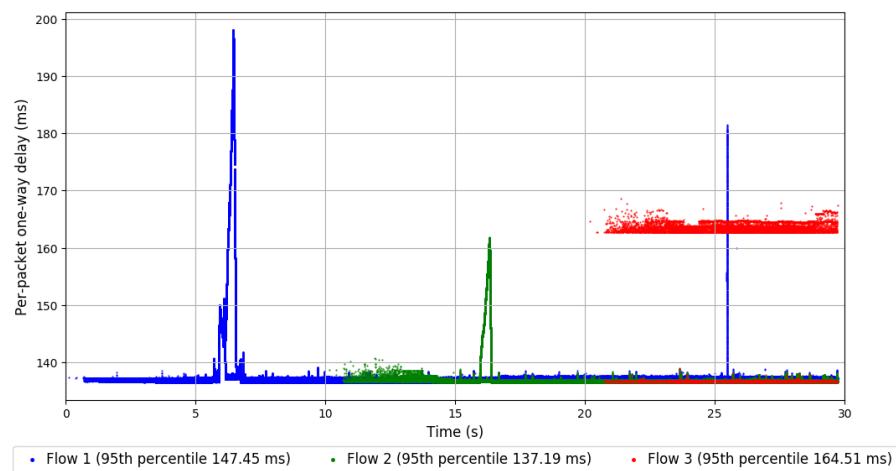
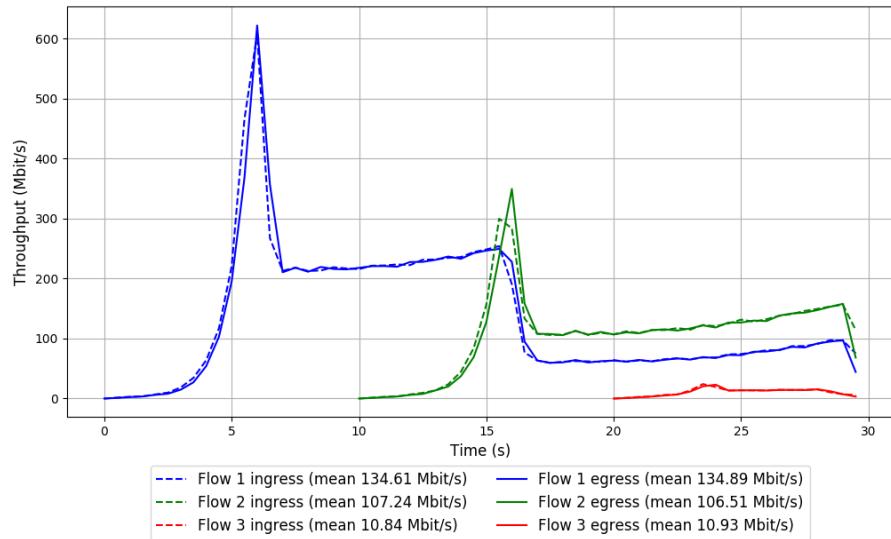
Run 5: Statistics of Vivace-loss

Start at: 2018-01-18 03:09:18

End at: 2018-01-18 03:09:48

```
# Below is generated by plot.py at 2018-01-18 09:56:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 208.86 Mbit/s
95th percentile per-packet one-way delay: 147.010 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 134.89 Mbit/s
95th percentile per-packet one-way delay: 147.447 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 106.51 Mbit/s
95th percentile per-packet one-way delay: 137.186 ms
Loss rate: 2.06%
-- Flow 3:
Average throughput: 10.93 Mbit/s
95th percentile per-packet one-way delay: 164.513 ms
Loss rate: 2.18%
```

## Run 5: Report of Vivace-loss — Data Link



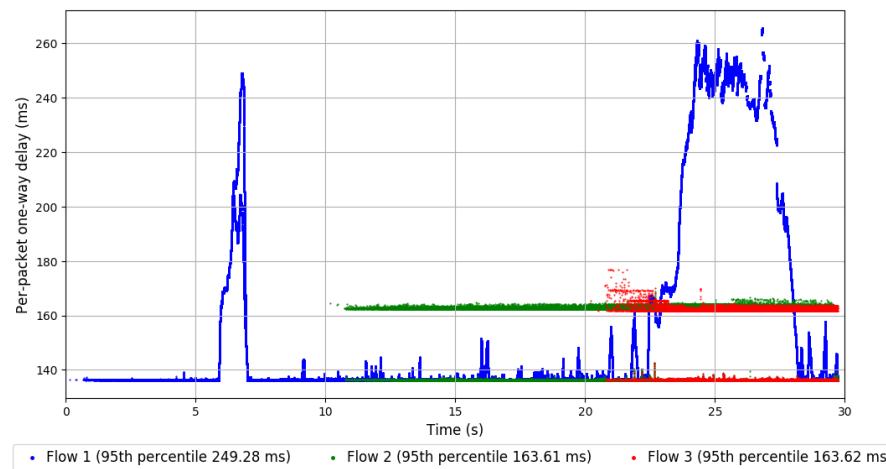
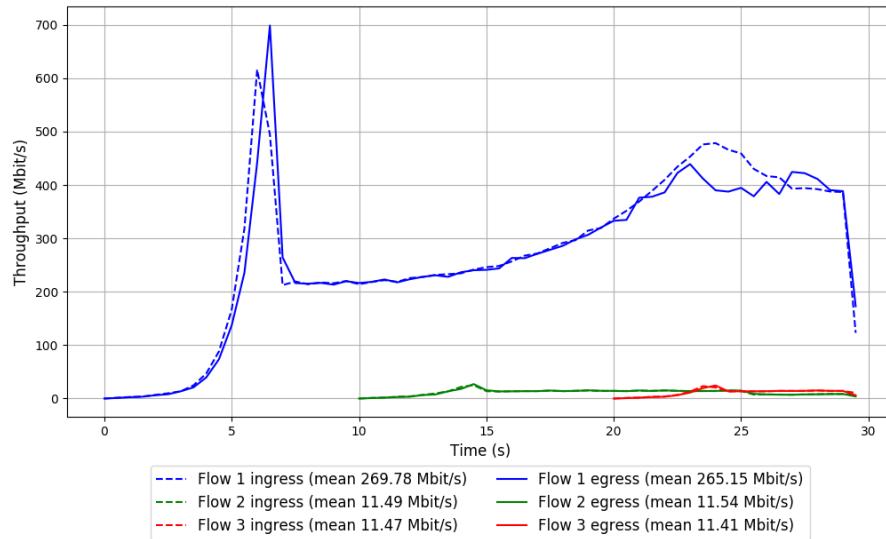
Run 6: Statistics of Vivace-loss

Start at: 2018-01-18 03:28:46

End at: 2018-01-18 03:29:16

```
# Below is generated by plot.py at 2018-01-18 09:57:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 276.44 Mbit/s
95th percentile per-packet one-way delay: 248.993 ms
Loss rate: 2.59%
-- Flow 1:
Average throughput: 265.15 Mbit/s
95th percentile per-packet one-way delay: 249.277 ms
Loss rate: 2.62%
-- Flow 2:
Average throughput: 11.54 Mbit/s
95th percentile per-packet one-way delay: 163.614 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 11.41 Mbit/s
95th percentile per-packet one-way delay: 163.618 ms
Loss rate: 3.64%
```

Run 6: Report of Vivace-loss — Data Link



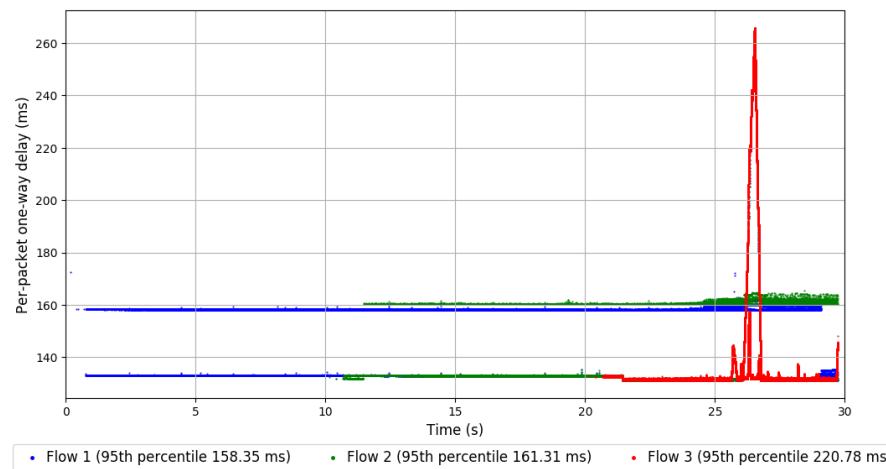
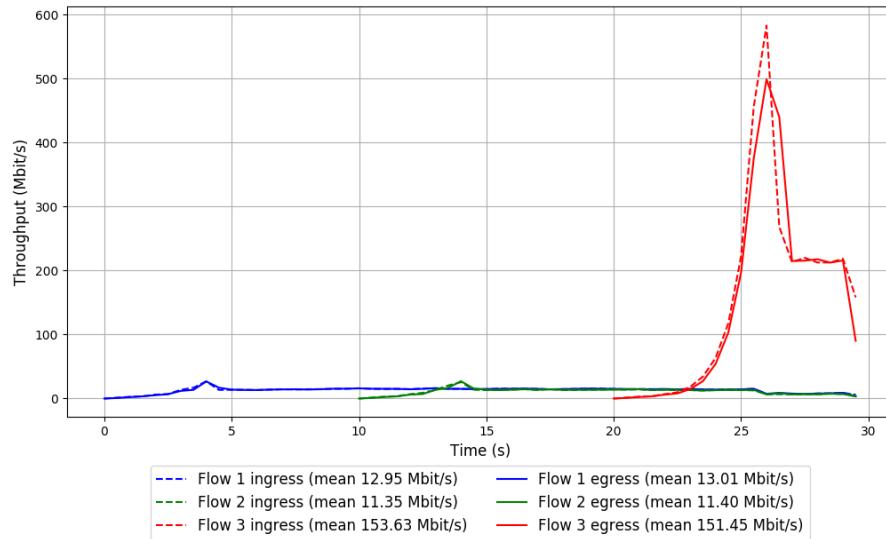
Run 7: Statistics of Vivace-loss

Start at: 2018-01-18 03:48:24

End at: 2018-01-18 03:48:54

```
# Below is generated by plot.py at 2018-01-18 09:57:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.62 Mbit/s
95th percentile per-packet one-way delay: 207.106 ms
Loss rate: 3.14%
-- Flow 1:
Average throughput: 13.01 Mbit/s
95th percentile per-packet one-way delay: 158.353 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 11.40 Mbit/s
95th percentile per-packet one-way delay: 161.311 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 151.45 Mbit/s
95th percentile per-packet one-way delay: 220.779 ms
Loss rate: 4.13%
```

### Run 7: Report of Vivace-loss — Data Link



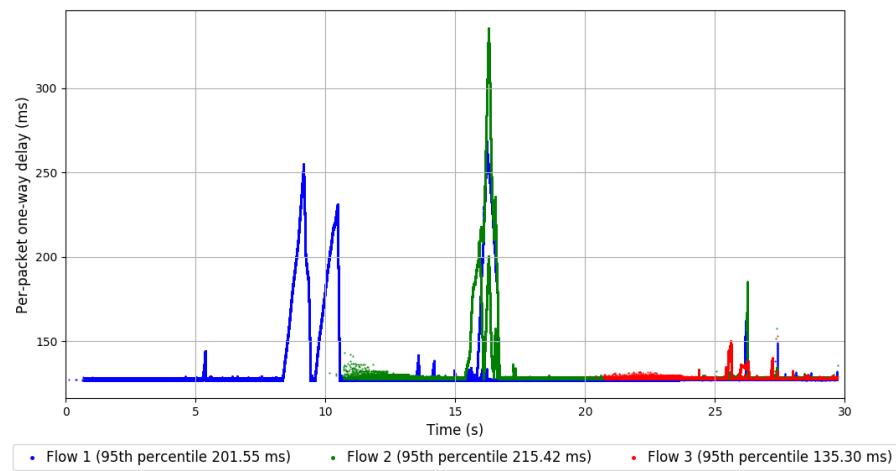
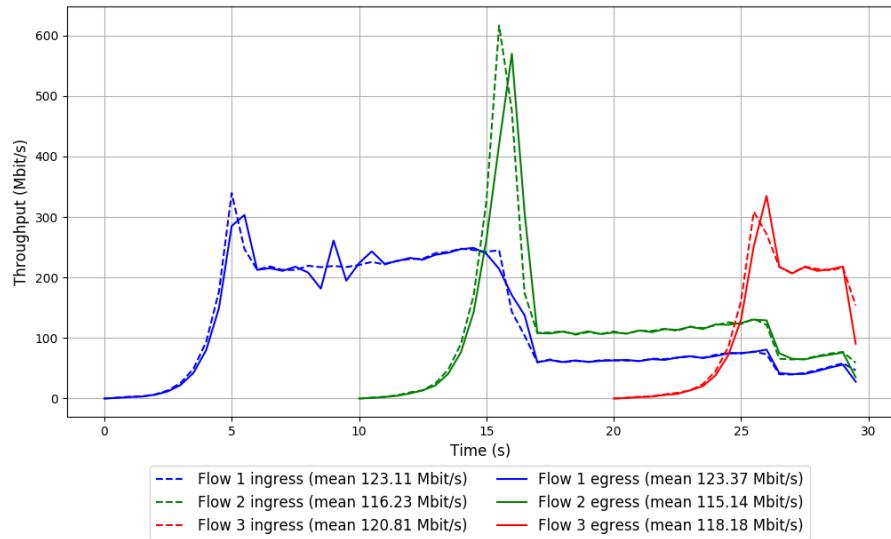
Run 8: Statistics of Vivace-loss

Start at: 2018-01-18 04:08:11

End at: 2018-01-18 04:08:41

```
# Below is generated by plot.py at 2018-01-18 09:57:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 237.65 Mbit/s
95th percentile per-packet one-way delay: 203.506 ms
Loss rate: 1.91%
-- Flow 1:
Average throughput: 123.37 Mbit/s
95th percentile per-packet one-way delay: 201.552 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 115.14 Mbit/s
95th percentile per-packet one-way delay: 215.424 ms
Loss rate: 2.28%
-- Flow 3:
Average throughput: 118.18 Mbit/s
95th percentile per-packet one-way delay: 135.303 ms
Loss rate: 4.90%
```

Run 8: Report of Vivace-loss — Data Link



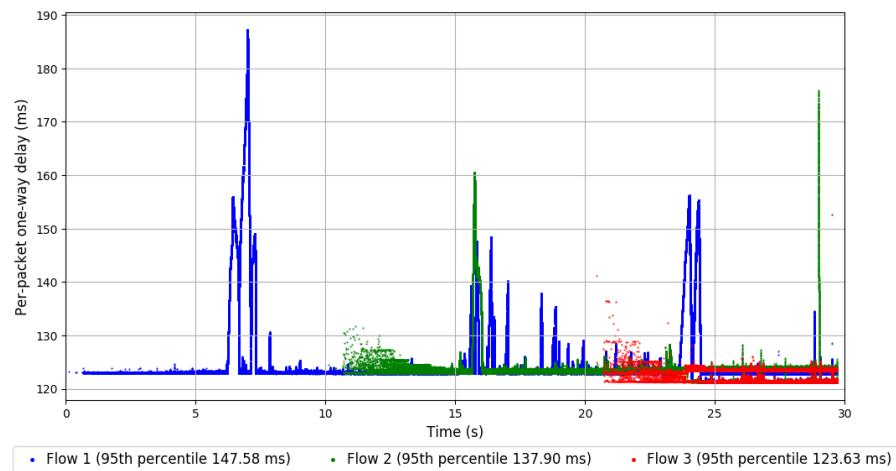
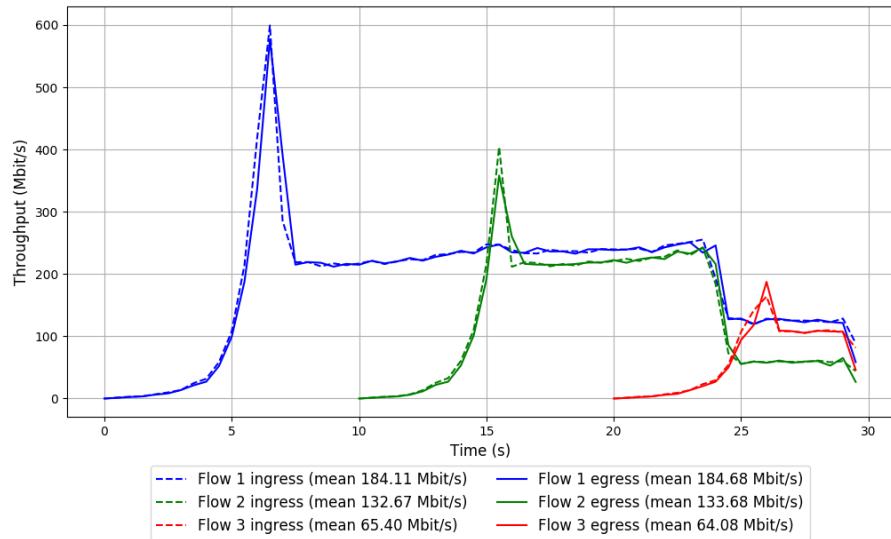
Run 9: Statistics of Vivace-loss

Start at: 2018-01-18 04:28:31

End at: 2018-01-18 04:29:01

```
# Below is generated by plot.py at 2018-01-18 10:00:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 293.80 Mbit/s
95th percentile per-packet one-way delay: 144.167 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 184.68 Mbit/s
95th percentile per-packet one-way delay: 147.582 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 133.68 Mbit/s
95th percentile per-packet one-way delay: 137.904 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 64.08 Mbit/s
95th percentile per-packet one-way delay: 123.630 ms
Loss rate: 4.75%
```

Run 9: Report of Vivace-loss — Data Link

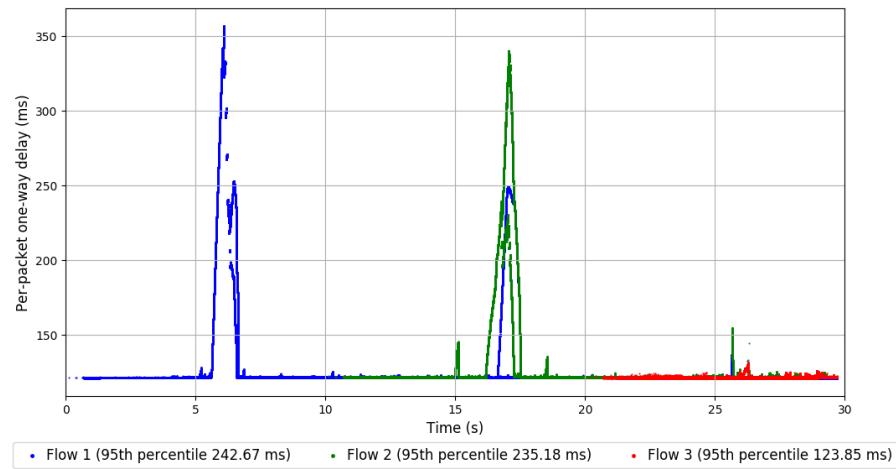
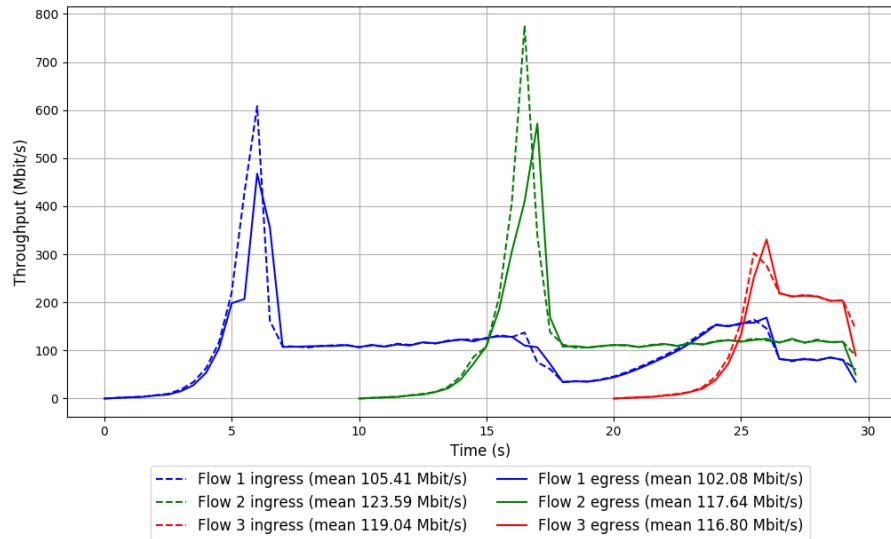


```
Run 10: Statistics of Vivace-loss

Start at: 2018-01-18 04:48:14
End at: 2018-01-18 04:48:44

# Below is generated by plot.py at 2018-01-18 10:00:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 217.72 Mbit/s
95th percentile per-packet one-way delay: 234.139 ms
Loss rate: 4.89%
-- Flow 1:
Average throughput: 102.08 Mbit/s
95th percentile per-packet one-way delay: 242.669 ms
Loss rate: 4.04%
-- Flow 2:
Average throughput: 117.64 Mbit/s
95th percentile per-packet one-way delay: 235.182 ms
Loss rate: 6.12%
-- Flow 3:
Average throughput: 116.80 Mbit/s
95th percentile per-packet one-way delay: 123.847 ms
Loss rate: 4.59%
```

## Run 10: Report of Vivace-loss — Data Link

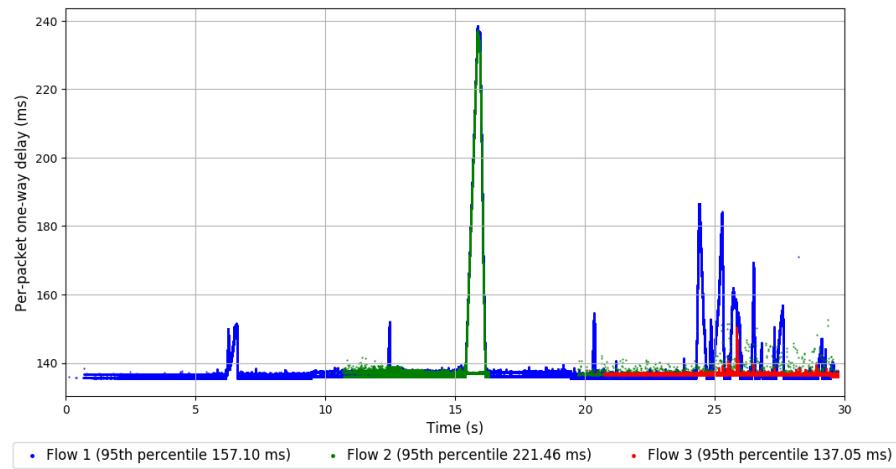
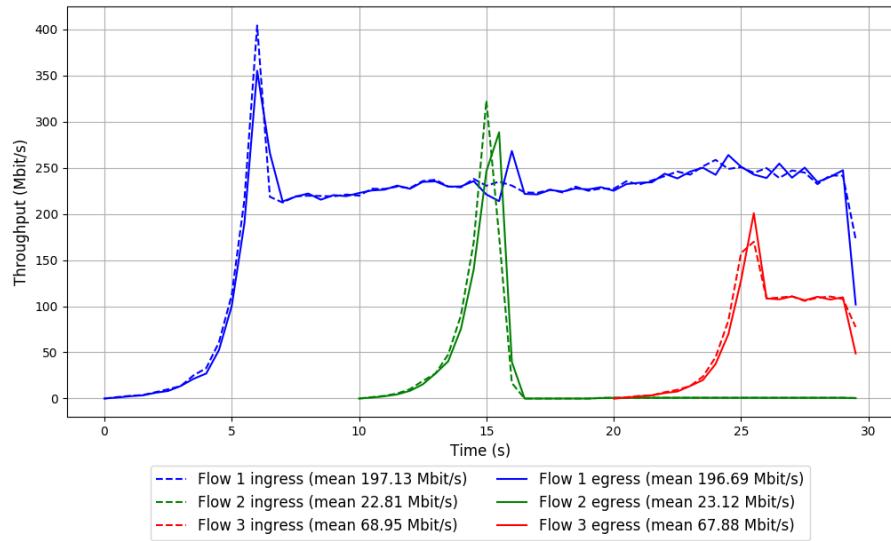


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-01-18 01:53:56
End at: 2018-01-18 01:54:26

# Below is generated by plot.py at 2018-01-18 10:00:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 233.91 Mbit/s
95th percentile per-packet one-way delay: 158.384 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 196.69 Mbit/s
95th percentile per-packet one-way delay: 157.100 ms
Loss rate: 1.13%
-- Flow 2:
Average throughput: 23.12 Mbit/s
95th percentile per-packet one-way delay: 221.464 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 67.88 Mbit/s
95th percentile per-packet one-way delay: 137.048 ms
Loss rate: 4.30%
```

Run 1: Report of Vivace-LTE — Data Link



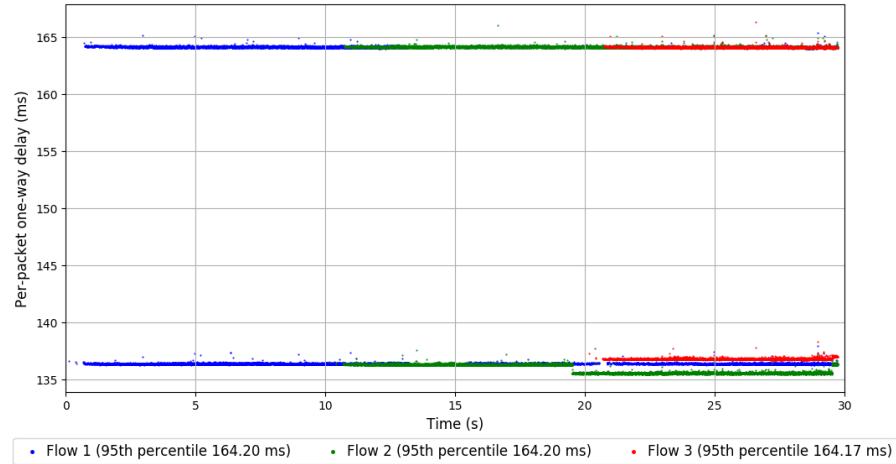
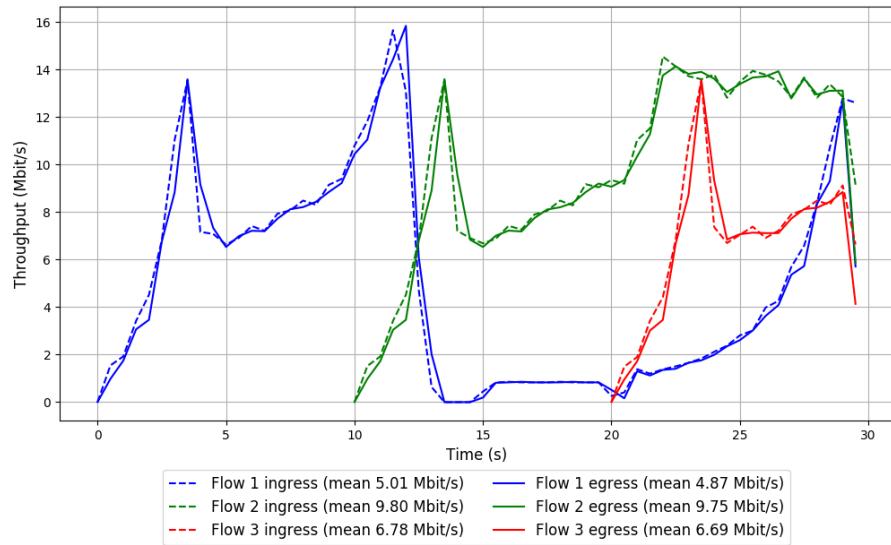
Run 2: Statistics of Vivace-LTE

Start at: 2018-01-18 02:12:23

End at: 2018-01-18 02:12:53

```
# Below is generated by plot.py at 2018-01-18 10:00:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.49 Mbit/s
95th percentile per-packet one-way delay: 164.198 ms
Loss rate: 2.93%
-- Flow 1:
Average throughput: 4.87 Mbit/s
95th percentile per-packet one-way delay: 164.203 ms
Loss rate: 3.69%
-- Flow 2:
Average throughput: 9.75 Mbit/s
95th percentile per-packet one-way delay: 164.201 ms
Loss rate: 1.93%
-- Flow 3:
Average throughput: 6.69 Mbit/s
95th percentile per-packet one-way delay: 164.168 ms
Loss rate: 4.11%
```

Run 2: Report of Vivace-LTE — Data Link



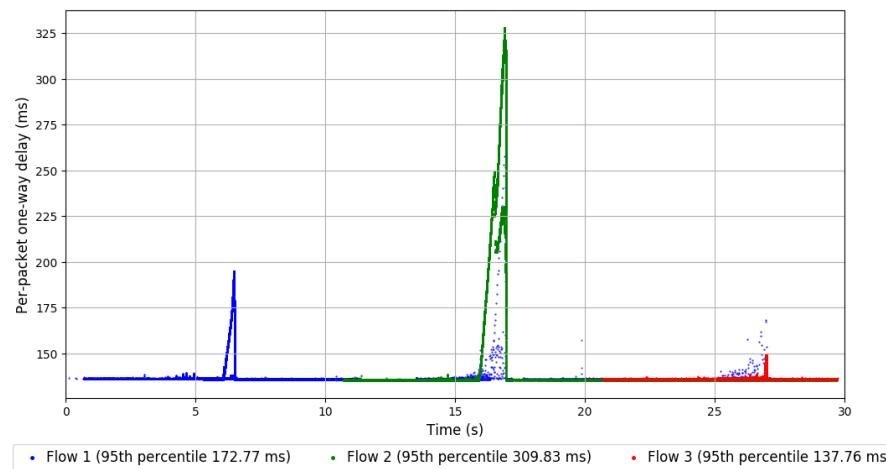
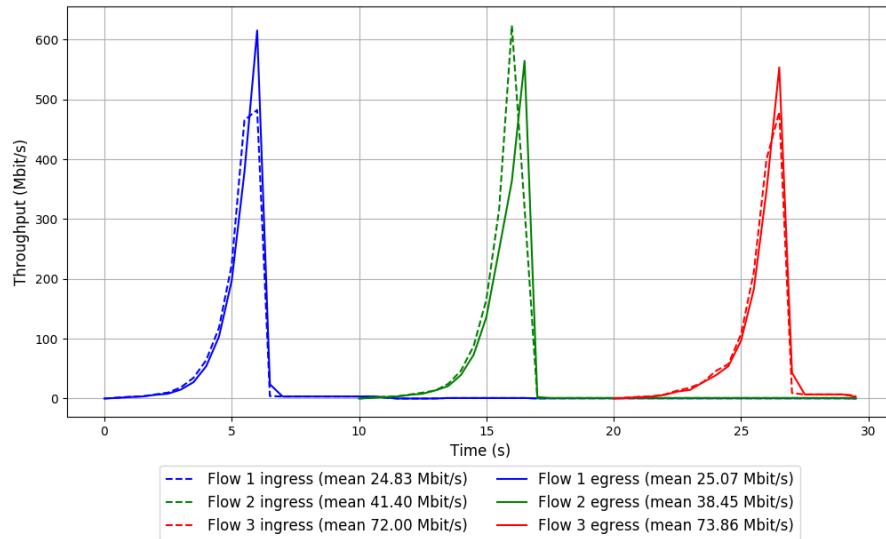
Run 3: Statistics of Vivace-LTE

Start at: 2018-01-18 02:30:50

End at: 2018-01-18 02:31:20

```
# Below is generated by plot.py at 2018-01-18 10:00:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.38 Mbit/s
95th percentile per-packet one-way delay: 245.326 ms
Loss rate: 3.13%
-- Flow 1:
Average throughput: 25.07 Mbit/s
95th percentile per-packet one-way delay: 172.773 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 38.45 Mbit/s
95th percentile per-packet one-way delay: 309.830 ms
Loss rate: 8.39%
-- Flow 3:
Average throughput: 73.86 Mbit/s
95th percentile per-packet one-way delay: 137.763 ms
Loss rate: 0.27%
```

### Run 3: Report of Vivace-LTE — Data Link



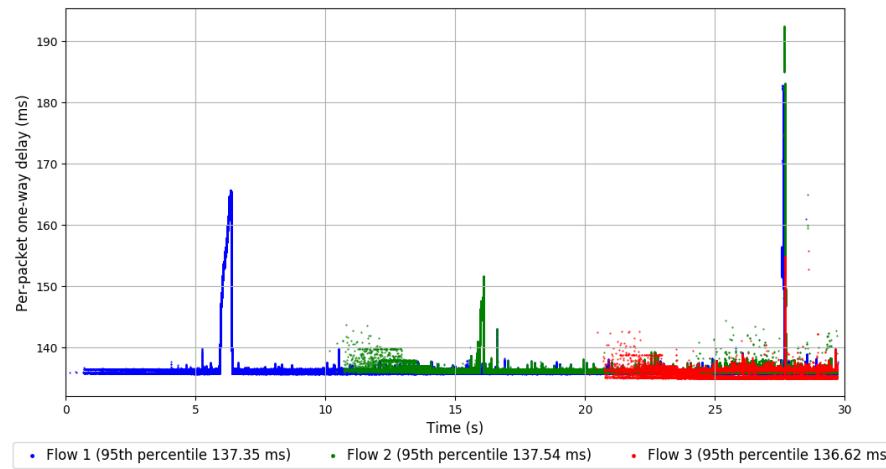
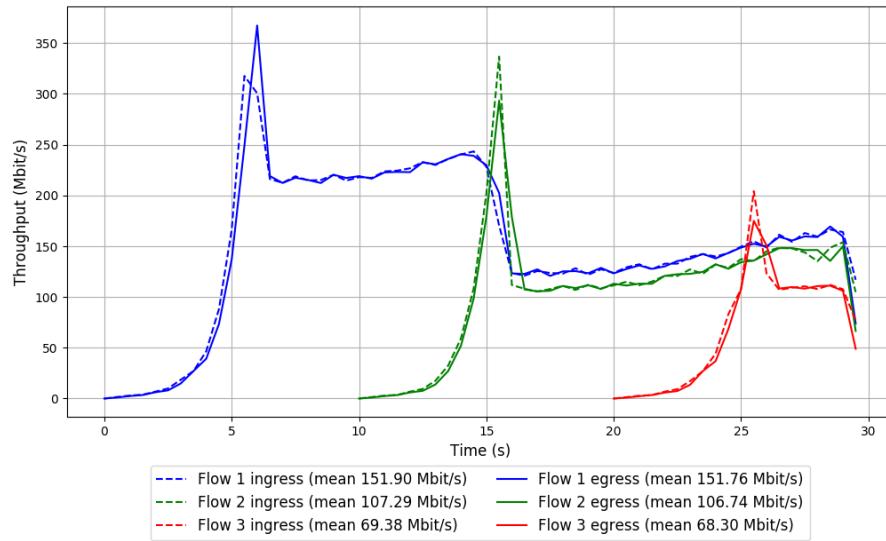
Run 4: Statistics of Vivace-LTE

Start at: 2018-01-18 02:50:48

End at: 2018-01-18 02:51:18

```
# Below is generated by plot.py at 2018-01-18 10:01:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 244.36 Mbit/s
95th percentile per-packet one-way delay: 137.163 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 151.76 Mbit/s
95th percentile per-packet one-way delay: 137.353 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 106.74 Mbit/s
95th percentile per-packet one-way delay: 137.540 ms
Loss rate: 1.93%
-- Flow 3:
Average throughput: 68.30 Mbit/s
95th percentile per-packet one-way delay: 136.623 ms
Loss rate: 4.34%
```

Run 4: Report of Vivace-LTE — Data Link



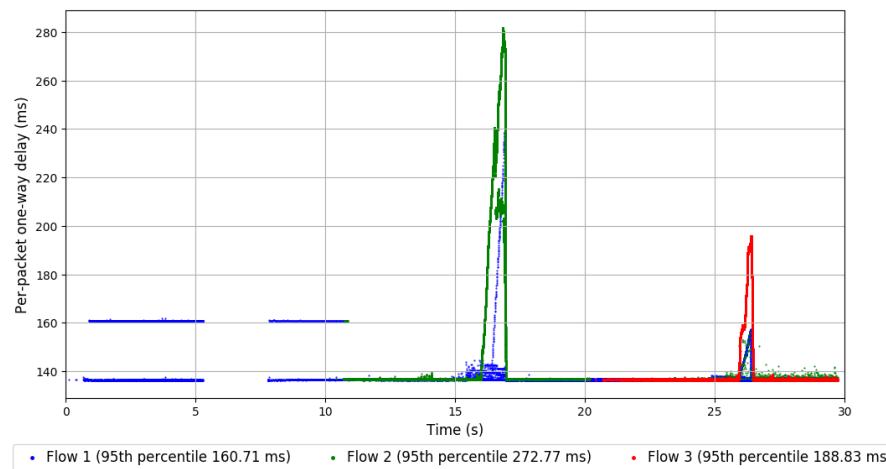
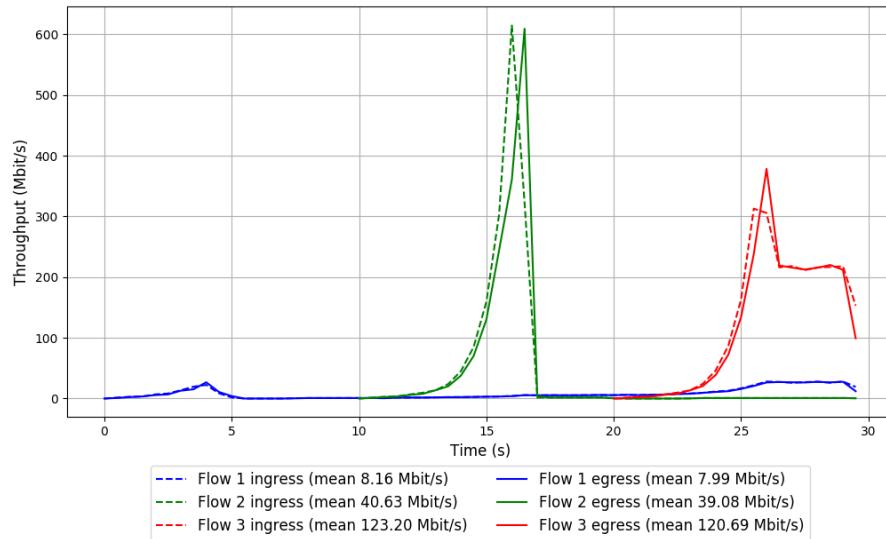
Run 5: Statistics of Vivace-LTE

Start at: 2018-01-18 03:10:34

End at: 2018-01-18 03:11:04

```
# Below is generated by plot.py at 2018-01-18 10:01:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.90 Mbit/s
95th percentile per-packet one-way delay: 241.015 ms
Loss rate: 4.70%
-- Flow 1:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 160.711 ms
Loss rate: 3.00%
-- Flow 2:
Average throughput: 39.08 Mbit/s
95th percentile per-packet one-way delay: 272.773 ms
Loss rate: 5.12%
-- Flow 3:
Average throughput: 120.69 Mbit/s
95th percentile per-packet one-way delay: 188.832 ms
Loss rate: 4.76%
```

Run 5: Report of Vivace-LTE — Data Link



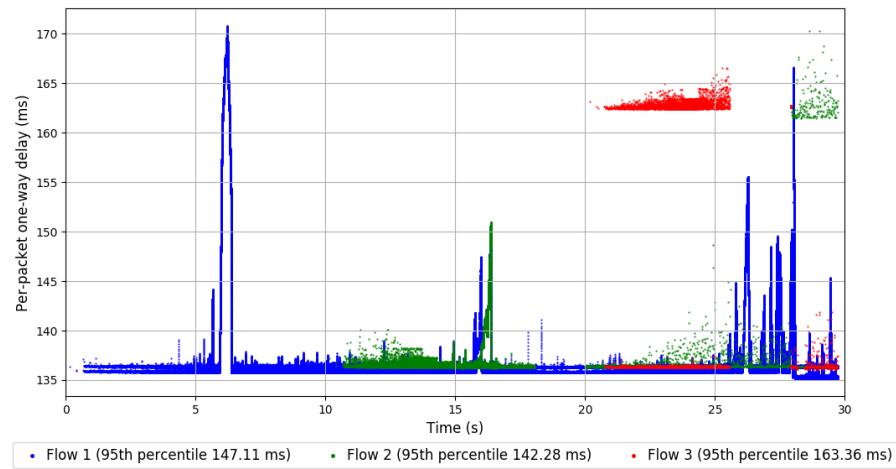
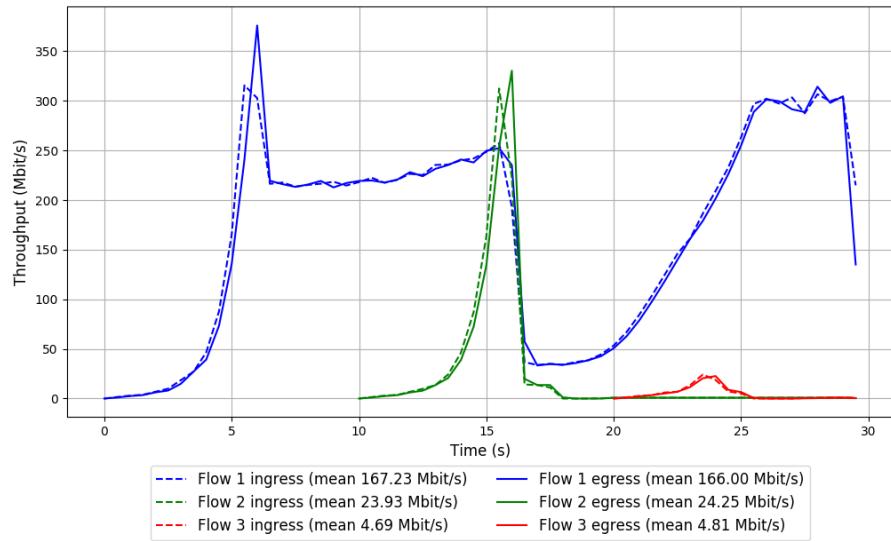
Run 6: Statistics of Vivace-LTE

Start at: 2018-01-18 03:30:07

End at: 2018-01-18 03:30:37

```
# Below is generated by plot.py at 2018-01-18 10:01:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 183.60 Mbit/s
95th percentile per-packet one-way delay: 147.453 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 166.00 Mbit/s
95th percentile per-packet one-way delay: 147.107 ms
Loss rate: 1.65%
-- Flow 2:
Average throughput: 24.25 Mbit/s
95th percentile per-packet one-way delay: 142.280 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 4.81 Mbit/s
95th percentile per-packet one-way delay: 163.357 ms
Loss rate: 0.52%
```

Run 6: Report of Vivace-LTE — Data Link



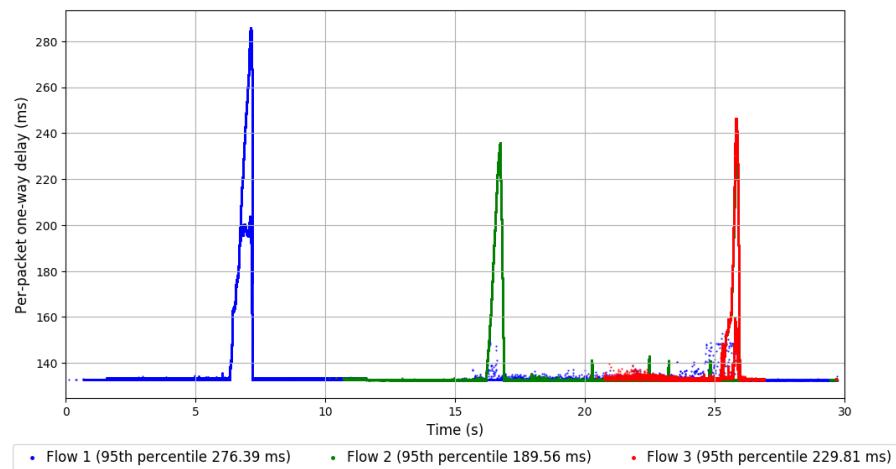
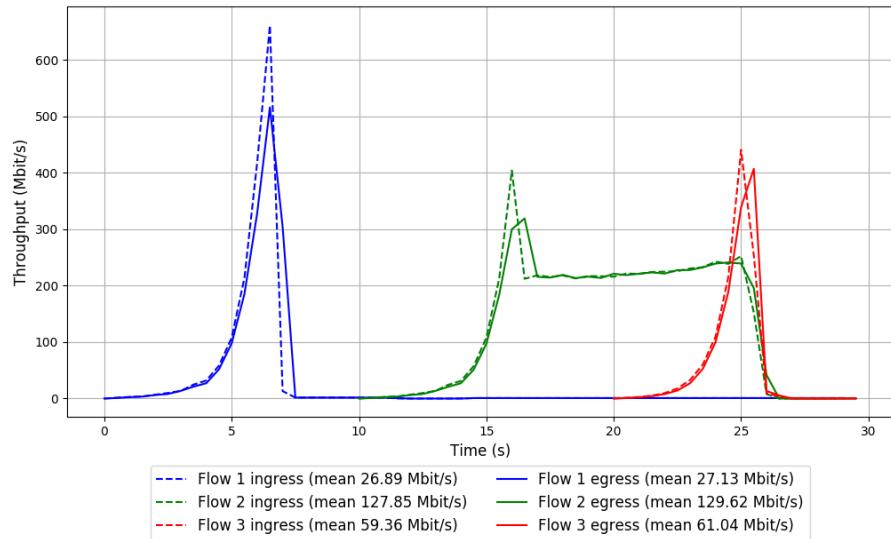
Run 7: Statistics of Vivace-LTE

Start at: 2018-01-18 03:49:21

End at: 2018-01-18 03:49:51

```
# Below is generated by plot.py at 2018-01-18 10:01:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 132.52 Mbit/s
95th percentile per-packet one-way delay: 226.480 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 27.13 Mbit/s
95th percentile per-packet one-way delay: 276.391 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 129.62 Mbit/s
95th percentile per-packet one-way delay: 189.558 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 61.04 Mbit/s
95th percentile per-packet one-way delay: 229.805 ms
Loss rate: 0.04%
```

Run 7: Report of Vivace-LTE — Data Link



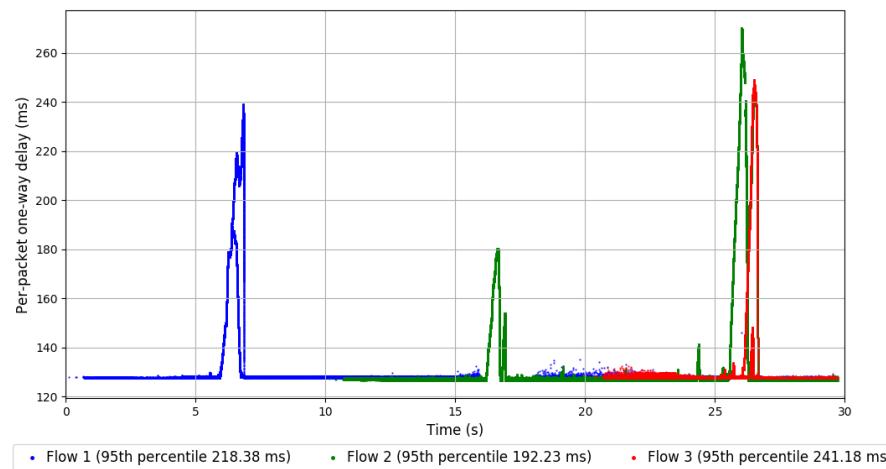
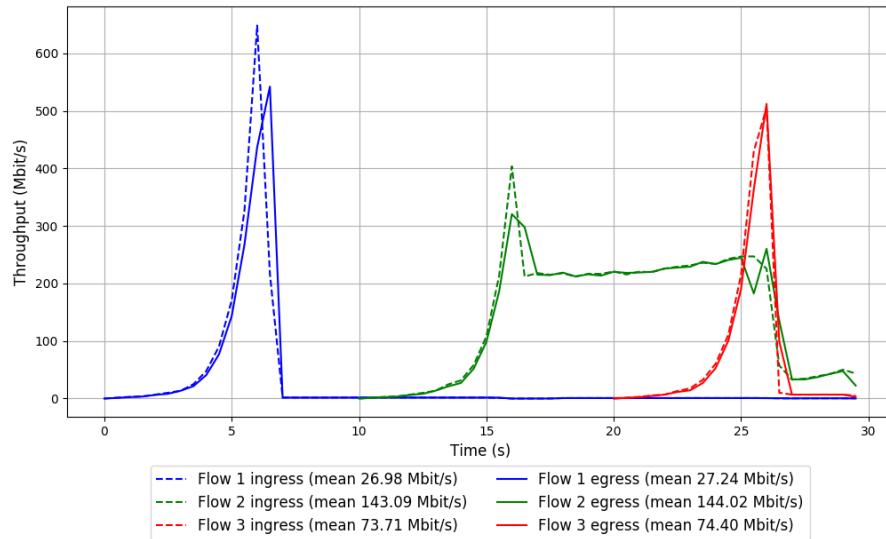
Run 8: Statistics of Vivace-LTE

Start at: 2018-01-18 04:09:31

End at: 2018-01-18 04:10:01

```
# Below is generated by plot.py at 2018-01-18 10:01:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 146.60 Mbit/s
95th percentile per-packet one-way delay: 215.009 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 27.24 Mbit/s
95th percentile per-packet one-way delay: 218.383 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 144.02 Mbit/s
95th percentile per-packet one-way delay: 192.228 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 74.40 Mbit/s
95th percentile per-packet one-way delay: 241.183 ms
Loss rate: 1.89%
```

Run 8: Report of Vivace-LTE — Data Link



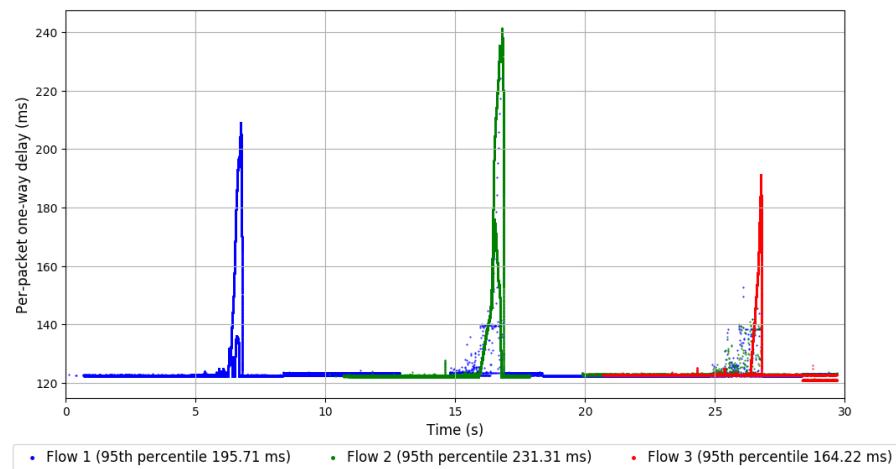
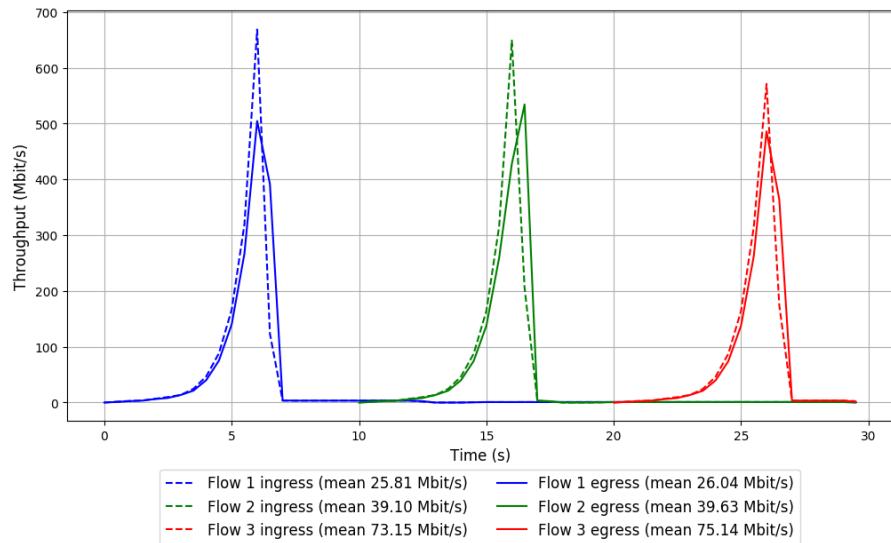
Run 9: Statistics of Vivace-LTE

Start at: 2018-01-18 04:29:57

End at: 2018-01-18 04:30:27

```
# Below is generated by plot.py at 2018-01-18 10:01:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.57 Mbit/s
95th percentile per-packet one-way delay: 210.272 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 26.04 Mbit/s
95th percentile per-packet one-way delay: 195.707 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 39.63 Mbit/s
95th percentile per-packet one-way delay: 231.312 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 75.14 Mbit/s
95th percentile per-packet one-way delay: 164.216 ms
Loss rate: 0.13%
```

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-01-18 04:49:31

End at: 2018-01-18 04:50:01

```
# Below is generated by plot.py at 2018-01-18 10:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 147.54 Mbit/s
95th percentile per-packet one-way delay: 247.273 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 26.18 Mbit/s
95th percentile per-packet one-way delay: 209.819 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 160.09 Mbit/s
95th percentile per-packet one-way delay: 266.071 ms
Loss rate: 1.77%
-- Flow 3:
Average throughput: 58.14 Mbit/s
95th percentile per-packet one-way delay: 192.279 ms
Loss rate: 0.01%
```

Run 10: Report of Vivace-LTE — Data Link

