Pantheon Report

Generated at 2018-05-30 19:16:49 (UTC).

Data path: AWS India 1 Ethernet (*local*) →India Ethernet (*remote*).

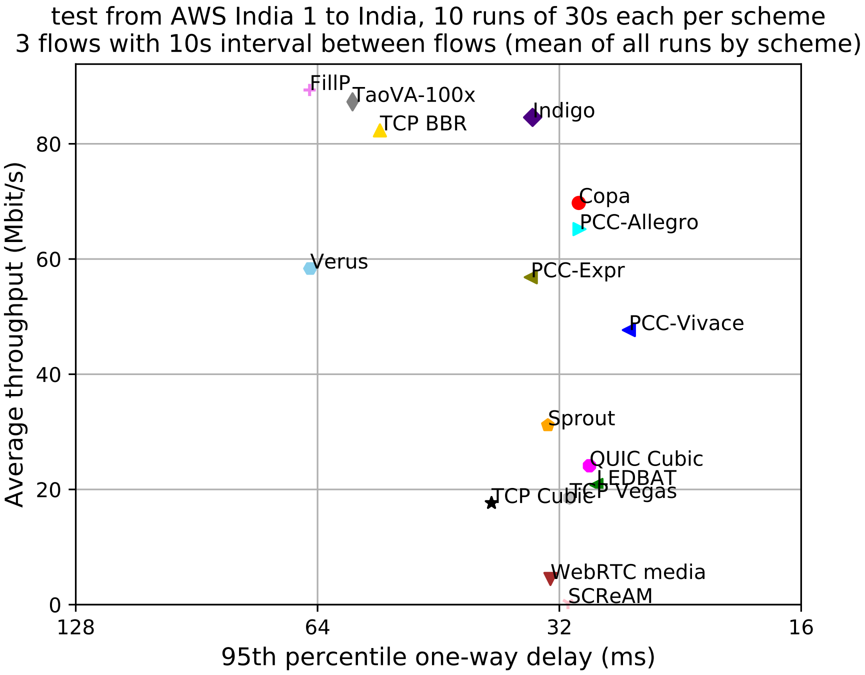
Repeated the test of 16 congestion control schemes 10 times.

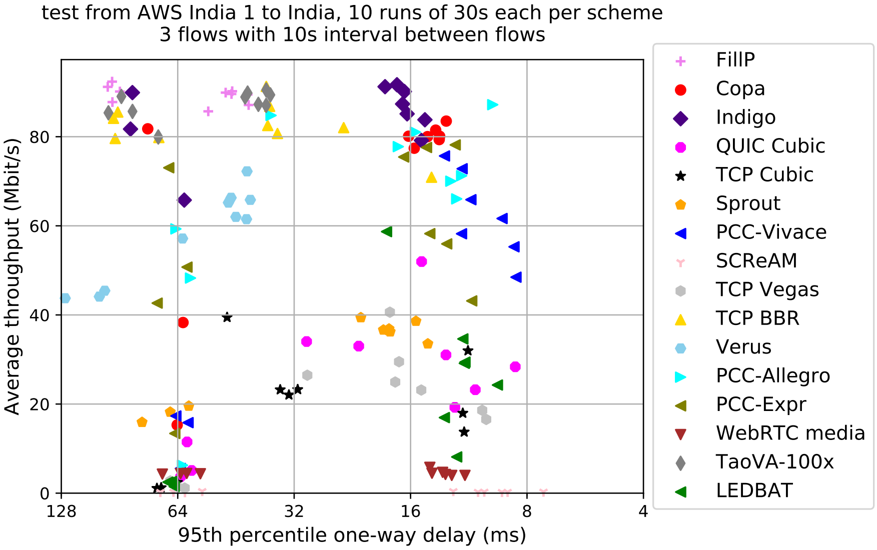
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against `nets.org.sg` and have been applied to correct the timestamps in logs.

```
Git summary:
branch: master @ 227fdf9a3757f17b88537cceed5743a33037a3d2
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
 M receiver/src/buffer.h
 M receiver/src/core.cpp
 M sender/src/buffer.h
 M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
 M src/ScreamClient
 M src/ScreamServer
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
 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 @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```


test from AWS India 1 to India, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)
Average throughput (Mbit/s)
95th percentile one-way delay (ms)
0
20
40
60
80
128
64
32
16
FillP
TaoVA-100x
TCP BBR
Indigo
Copa
PCC-Allegro
Verus
PCC-Expr
PCC-Vivace
Sprout
QUIC Cubic
LEDBAT
TCP Vegas
TCP Cubic
WebRTC media
SCReAM


test from AWS India 1 to India, 10 runs of 30s each per scheme
3 flows with 10s interval between flows
Average throughput (Mbit/s)
95th percentile one-way delay (ms)
0
20
40
60
80
128
64
32
16
8
4
FillP
Copa
Indigo
QUIC Cubic
TCP Cubic
Sprout
PCC-Vivace
SCReAM
TCP Vegas
TCP BBR
Verus
PCC-Allegro
PCC-Expr
WebRTC media
TaoVA-100x
LEDBAT

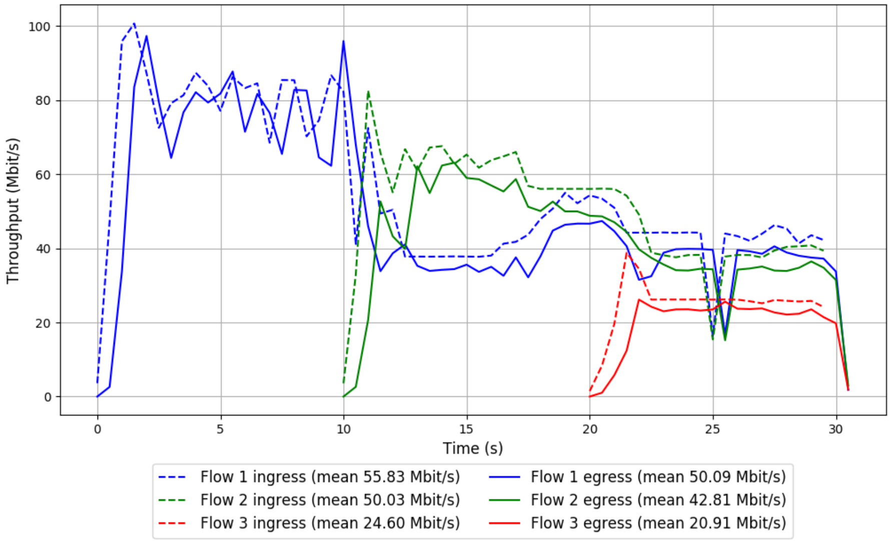
scheme	# runs	mean avg tput (Mbit/s) flow 1	flow 2	flow 3	mean 95th-%ile delay (ms) flow 1	flow 2	flow 3	mean loss rate (%) flow 1	flow 2	flow 3
TCP BBR	10	53.59	31.36	23.88	51.17	54.49	56.45	12.58	14.13	14.25
Copa	10	41.39	30.83	23.55	30.36	30.18	30.25	10.35	11.01	11.97
TCP Cubic	10	9.84	7.74	7.96	39.98	35.72	35.84	2.05	2.12	2.39
FillP	10	54.92	38.74	26.12	64.16	66.55	66.84	22.77	28.77	30.44
Indigo	10	49.89	36.05	33.06	32.97	35.16	37.45	10.09	11.97	13.29
LEDBAT	10	12.02	9.42	7.73	28.74	28.80	29.03	2.26	2.50	3.09
PCC-Allegro	10	56.70	9.70	6.23	30.07	31.09	31.24	7.72	8.28	8.64
PCC-Expr	10	41.57	16.06	13.90	33.76	34.42	37.90	6.15	6.73	7.31
QUIC Cubic	10	13.16	11.49	10.04	29.38	29.49	27.69	2.46	2.89	2.84
SCReAM	10	0.14	0.14	0.15	31.21	31.16	31.42	1.33	1.38	1.25
Sprout	10	15.95	15.48	14.85	32.69	33.27	34.01	3.35	4.49	4.83
TaoVA-100x	10	49.79	40.61	31.42	53.23	58.92	62.36	13.31	17.53	20.84
TCP Vegas	10	10.55	7.88	8.22	30.00	30.16	29.77	1.64	1.74	1.74
Verus	10	40.57	23.37	10.82	63.71	59.24	48.45	45.97	45.17	39.73
PCC-Vivace	10	33.41	15.33	12.29	26.32	26.01	26.08	5.84	6.28	6.90
WebRTC media	10	2.35	1.63	0.49	32.78	32.81	32.91	1.90	2.03	1.67

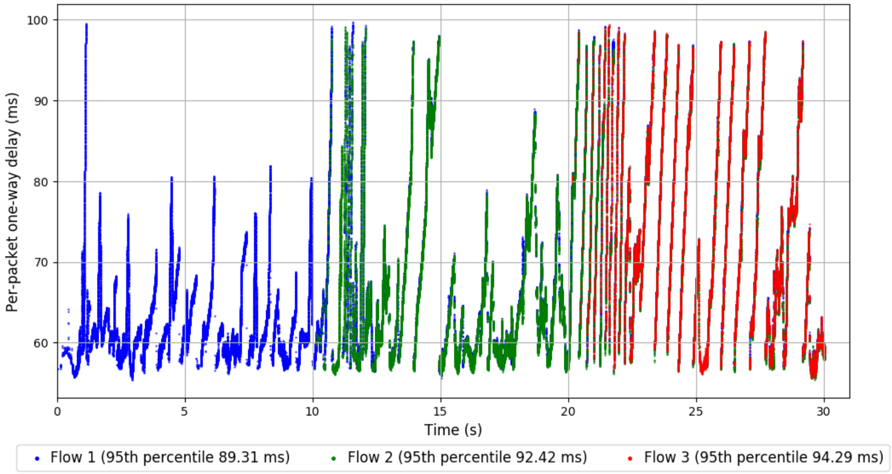
```
Run 1: Statistics of TCP BBR

Start at: 2018-05-30 15:47:19
End at: 2018-05-30 15:47:49
Local clock offset: 1.12 ms
Remote clock offset: 2.497 ms

# Below is generated by plot.py at 2018-05-30 19:01:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.53 Mbit/s
95th percentile per-packet one-way delay: 91.434 ms
Loss rate: 12.12%
-- Flow 1:
Average throughput: 50.09 Mbit/s
95th percentile per-packet one-way delay: 89.312 ms
Loss rate: 10.32%
-- Flow 2:
Average throughput: 42.81 Mbit/s
95th percentile per-packet one-way delay: 92.422 ms
Loss rate: 14.42%
-- Flow 3:
Average throughput: 20.91 Mbit/s
95th percentile per-packet one-way delay: 94.290 ms
Loss rate: 15.02%
```

Run 1: Report of TCP BBR — Data Link



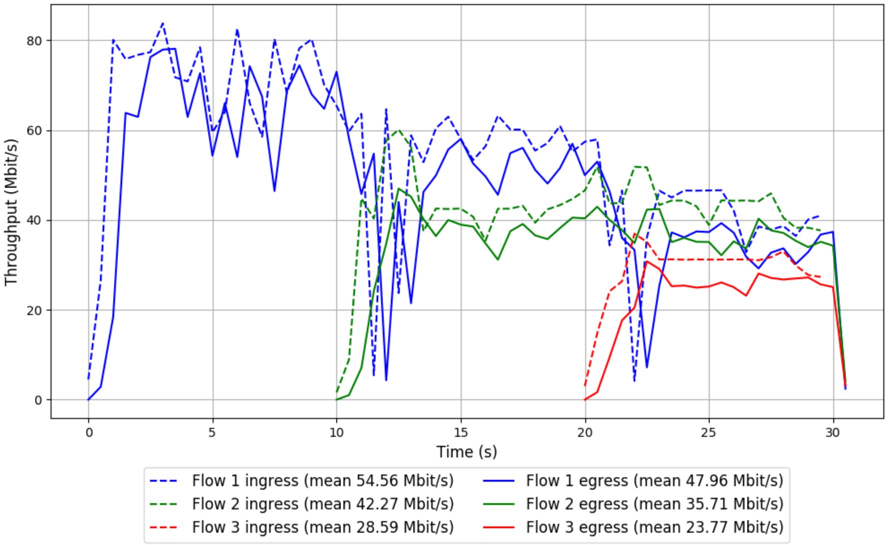


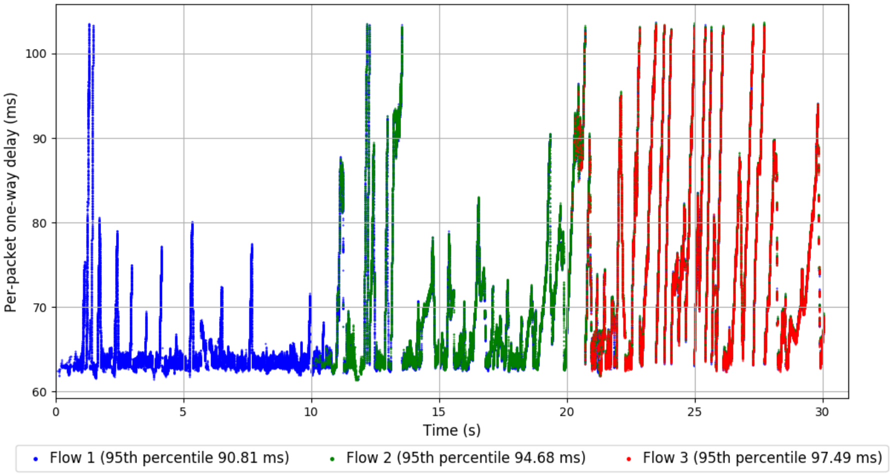
```
Run 2: Statistics of TCP BBR

Start at: 2018-05-30 16:06:11
End at: 2018-05-30 16:06:41
Local clock offset: -0.857 ms
Remote clock offset: 5.417 ms

# Below is generated by plot.py at 2018-05-30 19:01:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.60 Mbit/s
95th percentile per-packet one-way delay: 92.862 ms
Loss rate: 13.68%
-- Flow 1:
Average throughput: 47.96 Mbit/s
95th percentile per-packet one-way delay: 90.815 ms
Loss rate: 12.17%
-- Flow 2:
Average throughput: 35.71 Mbit/s
95th percentile per-packet one-way delay: 94.679 ms
Loss rate: 15.51%
-- Flow 3:
Average throughput: 23.77 Mbit/s
95th percentile per-packet one-way delay: 97.491 ms
Loss rate: 16.91%
```

Run 2: Report of TCP BBR — Data Link



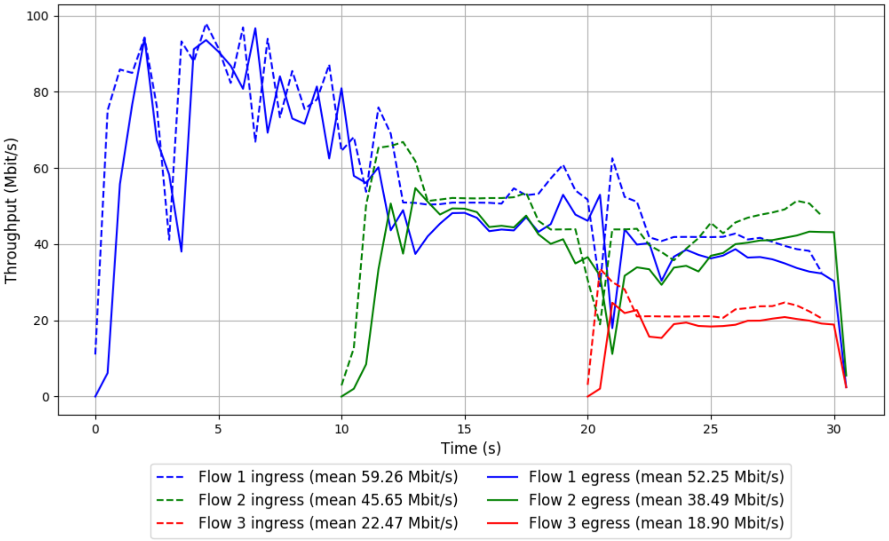


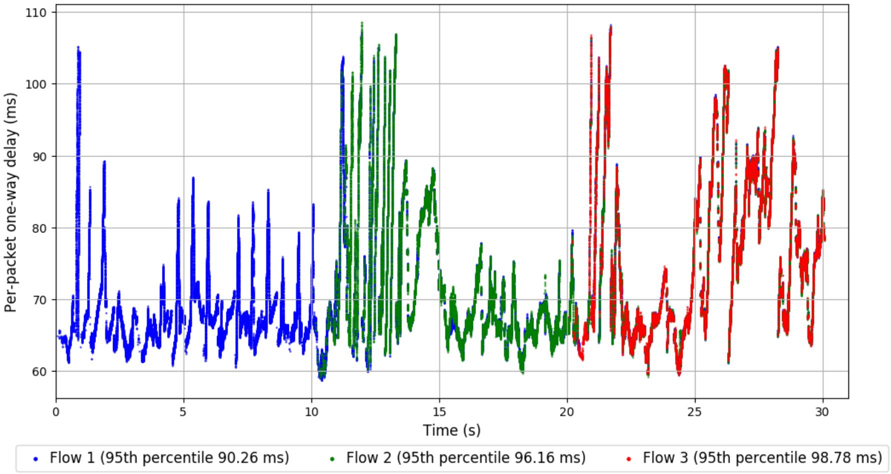
```
Run 3: Statistics of TCP BBR

Start at: 2018-05-30 16:25:54
End at: 2018-05-30 16:26:24
Local clock offset: -1.951 ms
Remote clock offset: -6.065 ms

# Below is generated by plot.py at 2018-05-30 19:01:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.13 Mbit/s
95th percentile per-packet one-way delay: 93.793 ms
Loss rate: 13.35%
-- Flow 1:
Average throughput: 52.25 Mbit/s
95th percentile per-packet one-way delay: 90.257 ms
Loss rate: 11.86%
-- Flow 2:
Average throughput: 38.49 Mbit/s
95th percentile per-packet one-way delay: 96.155 ms
Loss rate: 15.66%
-- Flow 3:
Average throughput: 18.90 Mbit/s
95th percentile per-packet one-way delay: 98.780 ms
Loss rate: 15.81%
```

Run 3: Report of TCP BBR — Data Link



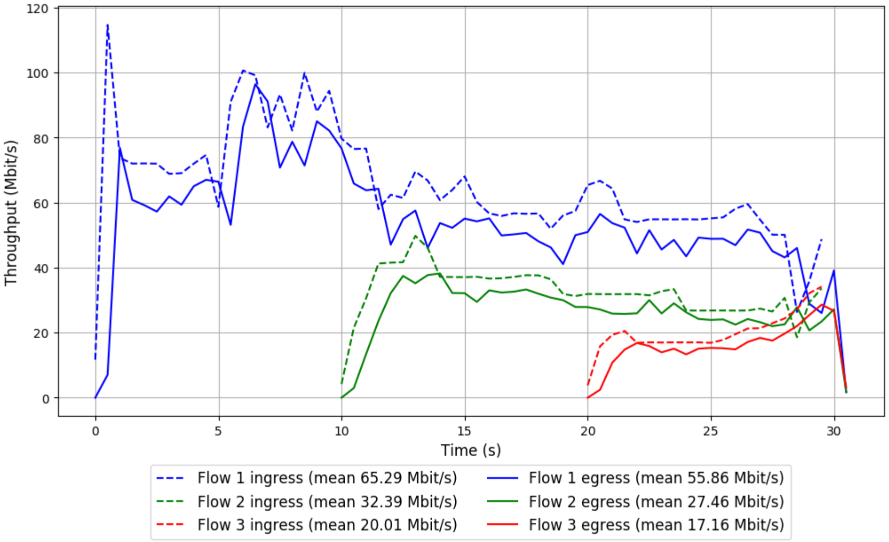


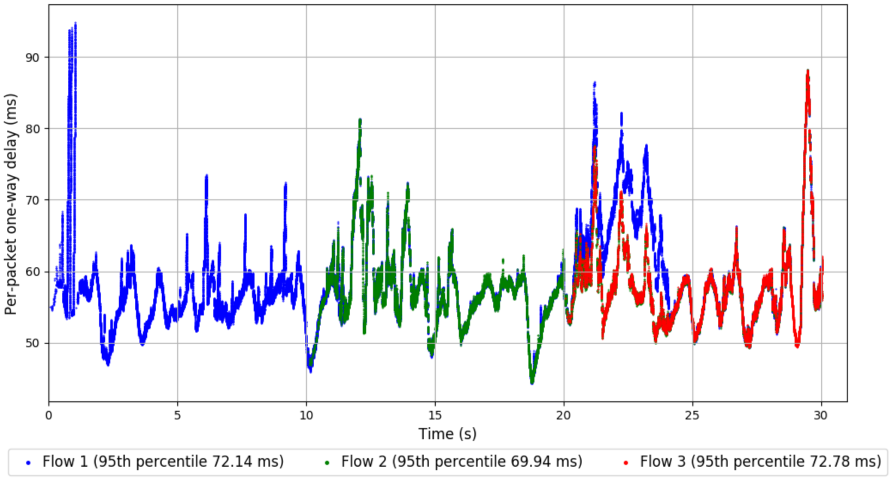
```
Run 4: Statistics of TCP BBR

Start at: 2018-05-30 16:45:00
End at: 2018-05-30 16:45:30
Local clock offset: 2.12 ms
Remote clock offset: -11.601 ms

# Below is generated by plot.py at 2018-05-30 19:01:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.82 Mbit/s
95th percentile per-packet one-way delay: 71.603 ms
Loss rate: 14.64%
-- Flow 1:
Average throughput: 55.86 Mbit/s
95th percentile per-packet one-way delay: 72.137 ms
Loss rate: 14.49%
-- Flow 2:
Average throughput: 27.46 Mbit/s
95th percentile per-packet one-way delay: 69.942 ms
Loss rate: 15.20%
-- Flow 3:
Average throughput: 17.16 Mbit/s
95th percentile per-packet one-way delay: 72.775 ms
Loss rate: 14.23%
```

Run 4: Report of TCP BBR — Data Link



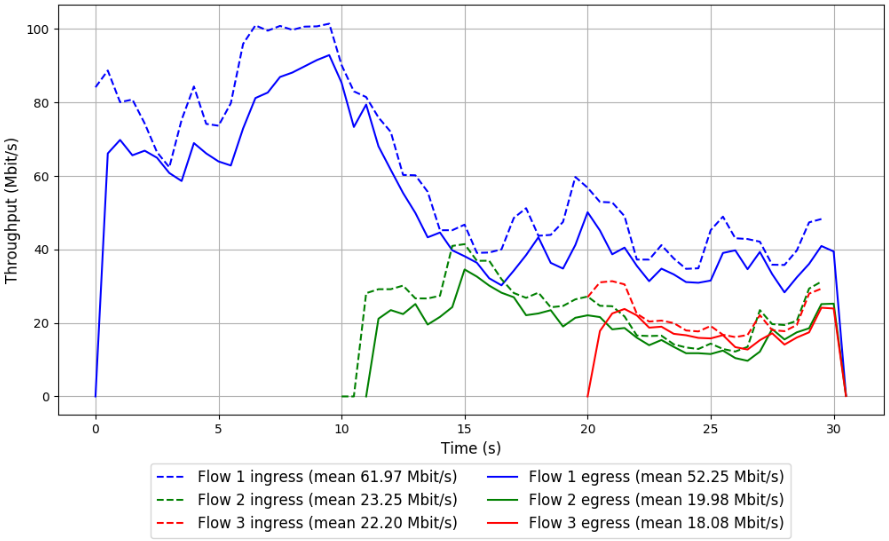


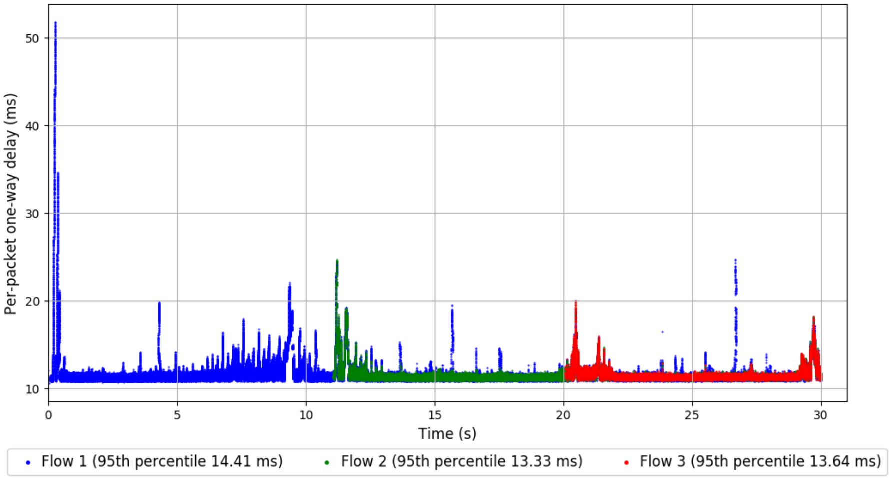
```
Run 5: Statistics of TCP BBR

Start at: 2018-05-30 17:04:39
End at: 2018-05-30 17:05:09
Local clock offset: -2.086 ms
Remote clock offset: -16.282 ms

# Below is generated by plot.py at 2018-05-30 19:01:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.90 Mbit/s
95th percentile per-packet one-way delay: 14.123 ms
Loss rate: 16.42%
-- Flow 1:
Average throughput: 52.25 Mbit/s
95th percentile per-packet one-way delay: 14.408 ms
Loss rate: 15.69%
-- Flow 2:
Average throughput: 19.98 Mbit/s
95th percentile per-packet one-way delay: 13.332 ms
Loss rate: 18.36%
-- Flow 3:
Average throughput: 18.08 Mbit/s
95th percentile per-packet one-way delay: 13.637 ms
Loss rate: 18.55%
```

Run 5: Report of TCP BBR — Data Link



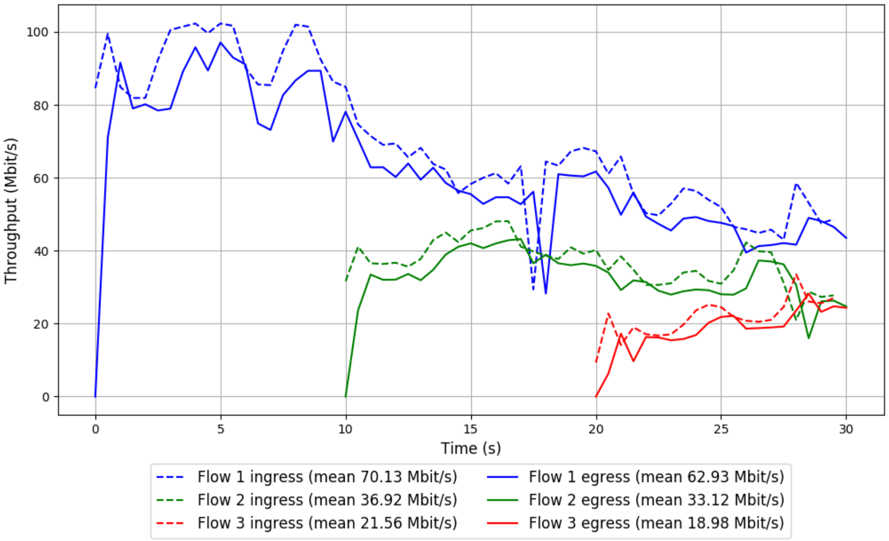


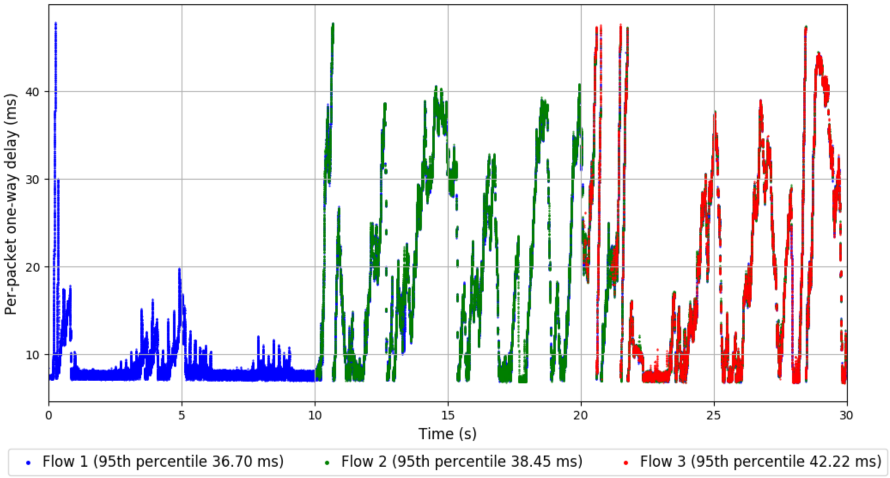
```
Run 6: Statistics of TCP BBR

Start at: 2018-05-30 17:23:44
End at: 2018-05-30 17:24:14
Local clock offset: 1.226 ms
Remote clock offset: -8.897 ms

# Below is generated by plot.py at 2018-05-30 19:01:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.29 Mbit/s
95th percentile per-packet one-way delay: 37.776 ms
Loss rate: 10.41%
-- Flow 1:
Average throughput: 62.93 Mbit/s
95th percentile per-packet one-way delay: 36.696 ms
Loss rate: 10.27%
-- Flow 2:
Average throughput: 33.12 Mbit/s
95th percentile per-packet one-way delay: 38.448 ms
Loss rate: 10.28%
-- Flow 3:
Average throughput: 18.98 Mbit/s
95th percentile per-packet one-way delay: 42.217 ms
Loss rate: 12.18%
```

Run 6: Report of TCP BBR — Data Link



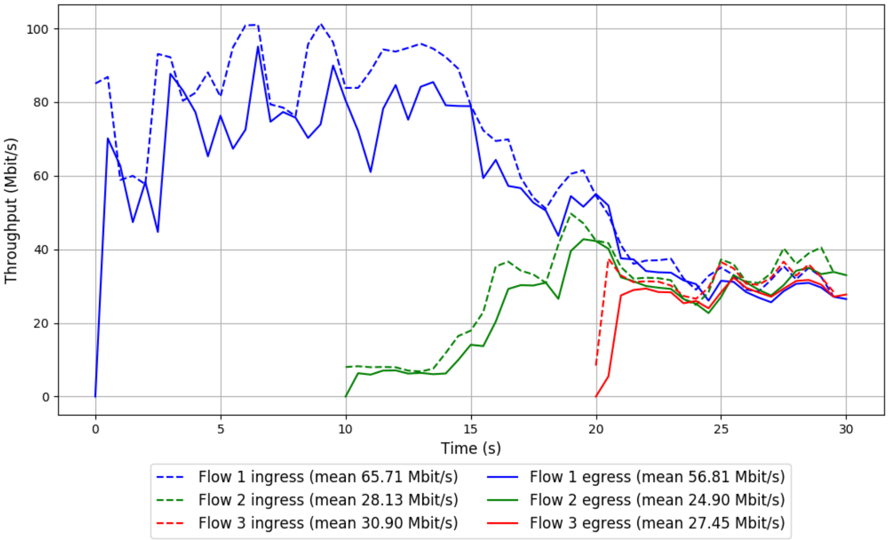


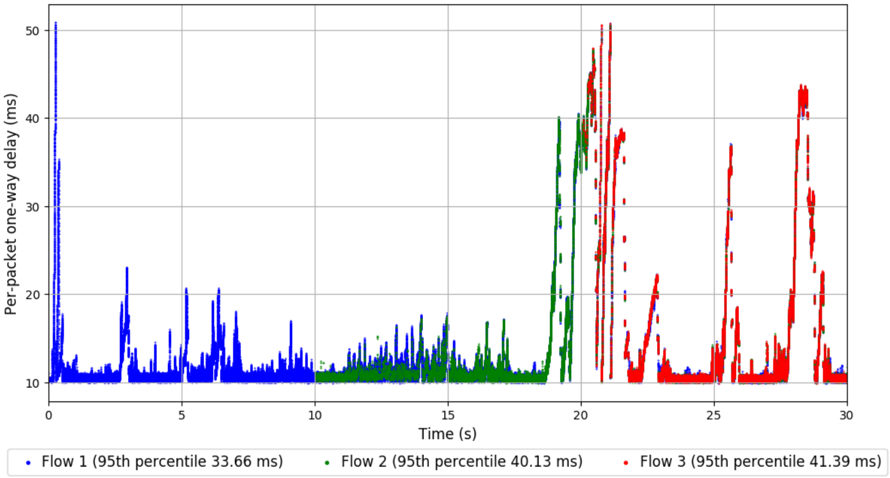
```
Run 7: Statistics of TCP BBR

Start at: 2018-05-30 17:43:07
End at: 2018-05-30 17:43:37
Local clock offset: -0.366 ms
Remote clock offset: 0.957 ms

# Below is generated by plot.py at 2018-05-30 19:01:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.51 Mbit/s
95th percentile per-packet one-way delay: 37.447 ms
Loss rate: 12.91%
-- Flow 1:
Average throughput: 56.81 Mbit/s
95th percentile per-packet one-way delay: 33.664 ms
Loss rate: 13.55%
-- Flow 2:
Average throughput: 24.90 Mbit/s
95th percentile per-packet one-way delay: 40.130 ms
Loss rate: 11.47%
-- Flow 3:
Average throughput: 27.45 Mbit/s
95th percentile per-packet one-way delay: 41.392 ms
Loss rate: 11.42%
```

Run 7: Report of TCP BBR — Data Link



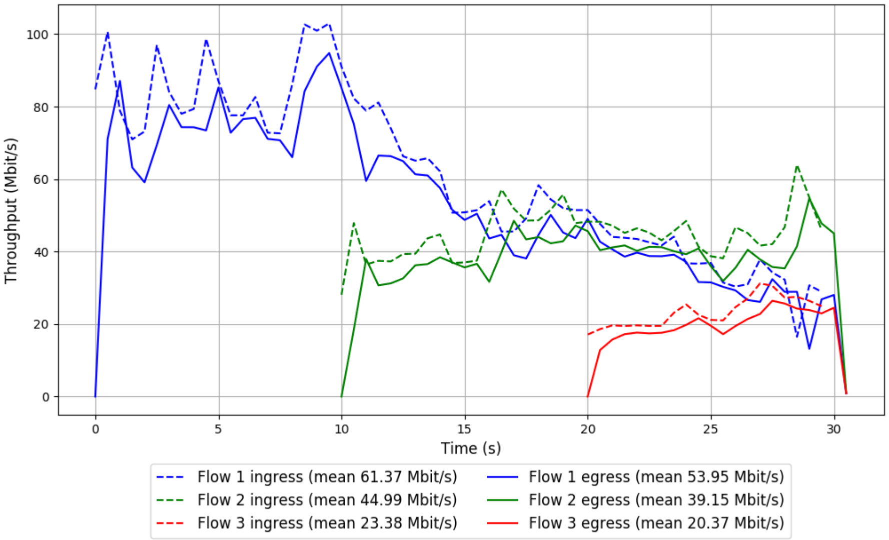


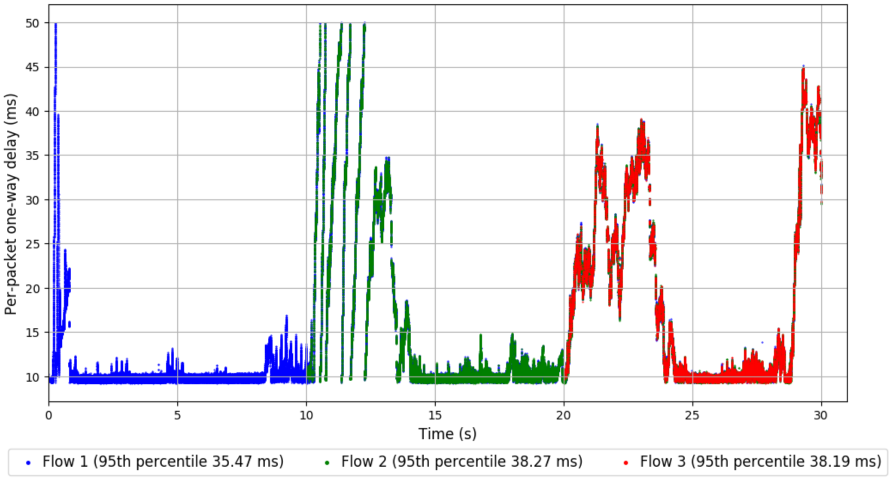
```
Run 8: Statistics of TCP BBR

Start at: 2018-05-30 18:01:53
End at: 2018-05-30 18:02:23
Local clock offset: -0.174 ms
Remote clock offset: -0.385 ms

# Below is generated by plot.py at 2018-05-30 19:01:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.81 Mbit/s
95th percentile per-packet one-way delay: 37.026 ms
Loss rate: 12.35%
-- Flow 1:
Average throughput: 53.95 Mbit/s
95th percentile per-packet one-way delay: 35.474 ms
Loss rate: 12.03%
-- Flow 2:
Average throughput: 39.15 Mbit/s
95th percentile per-packet one-way delay: 38.266 ms
Loss rate: 12.90%
-- Flow 3:
Average throughput: 20.37 Mbit/s
95th percentile per-packet one-way delay: 38.192 ms
Loss rate: 12.71%
```

Run 8: Report of TCP BBR — Data Link



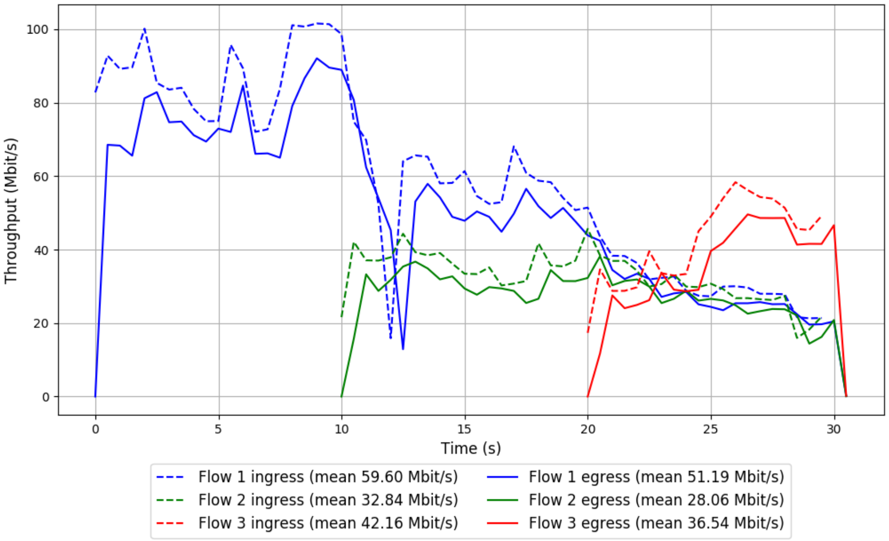


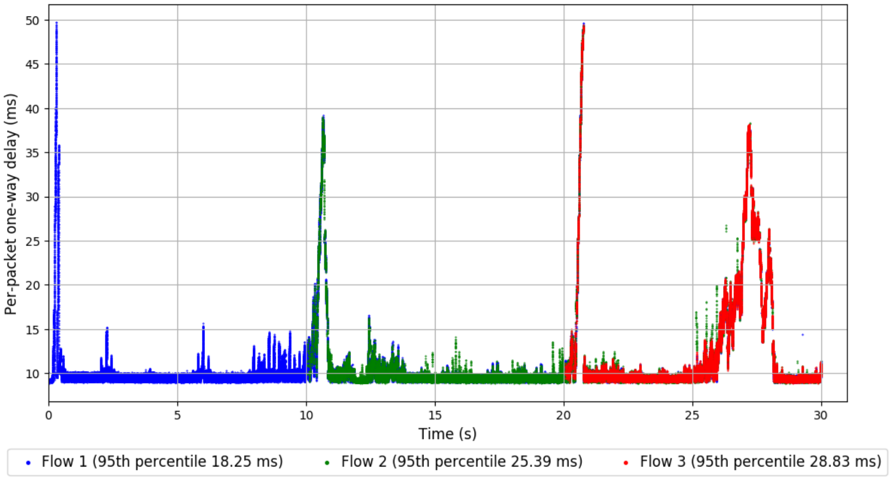
```
Run 9: Statistics of TCP BBR

Start at: 2018-05-30 18:20:28
End at: 2018-05-30 18:20:58
Local clock offset: -1.086 ms
Remote clock offset: 0.296 ms

# Below is generated by plot.py at 2018-05-30 19:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.03 Mbit/s
95th percentile per-packet one-way delay: 23.827 ms
Loss rate: 14.10%
-- Flow 1:
Average throughput: 51.19 Mbit/s
95th percentile per-packet one-way delay: 18.246 ms
Loss rate: 14.11%
-- Flow 2:
Average throughput: 28.06 Mbit/s
95th percentile per-packet one-way delay: 25.392 ms
Loss rate: 14.58%
-- Flow 3:
Average throughput: 36.54 Mbit/s
95th percentile per-packet one-way delay: 28.832 ms
Loss rate: 13.33%
```

Run 9: Report of TCP BBR — Data Link



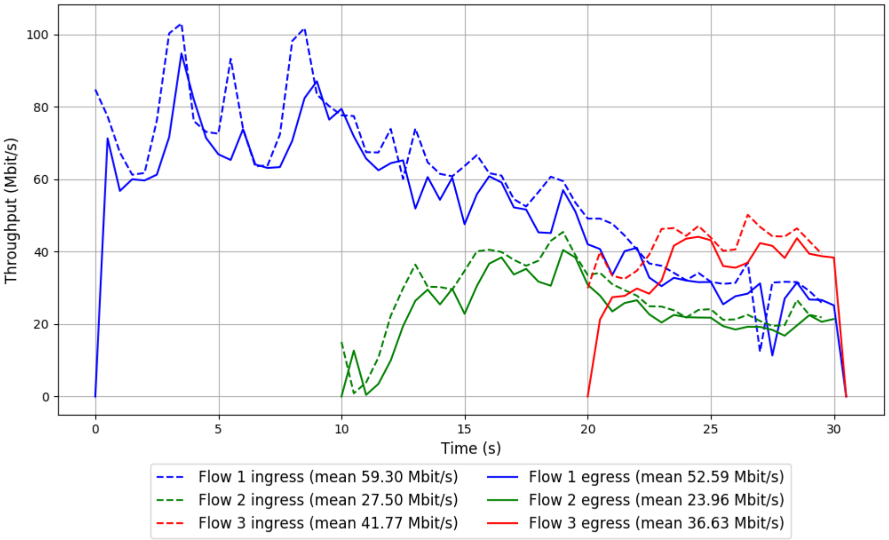


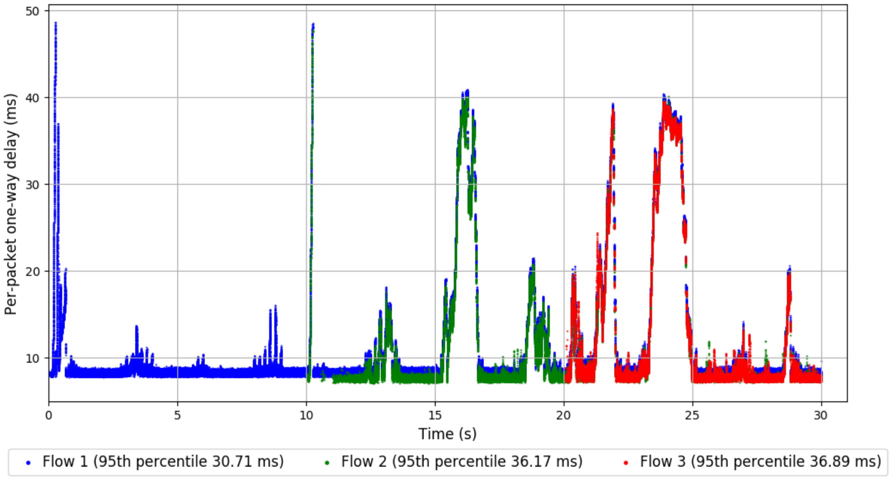
```
Run 10: Statistics of TCP BBR

Start at: 2018-05-30 18:39:27
End at: 2018-05-30 18:39:57
Local clock offset: -0.53 ms
Remote clock offset: -6.301 ms

# Below is generated by plot.py at 2018-05-30 19:01:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.72 Mbit/s
95th percentile per-packet one-way delay: 35.339 ms
Loss rate: 11.79%
-- Flow 1:
Average throughput: 52.59 Mbit/s
95th percentile per-packet one-way delay: 30.710 ms
Loss rate: 11.32%
-- Flow 2:
Average throughput: 23.96 Mbit/s
95th percentile per-packet one-way delay: 36.173 ms
Loss rate: 12.88%
-- Flow 3:
Average throughput: 36.63 Mbit/s
95th percentile per-packet one-way delay: 36.888 ms
Loss rate: 12.31%
```

Run 10: Report of TCP BBR — Data Link



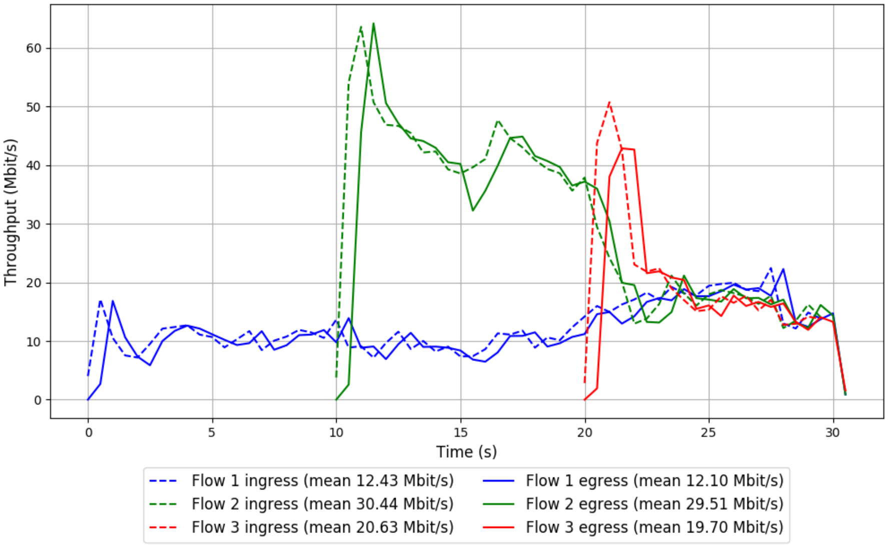


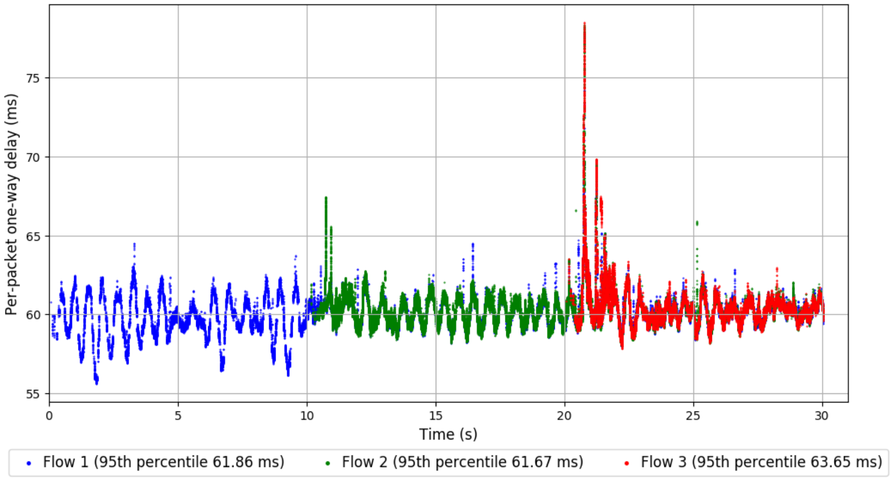
```
Run 1: Statistics of Copa

Start at: 2018-05-30 15:54:32
End at: 2018-05-30 15:55:02
Local clock offset: -1.743 ms
Remote clock offset: 2.895 ms

# Below is generated by plot.py at 2018-05-30 19:01:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.29 Mbit/s
95th percentile per-packet one-way delay: 62.011 ms
Loss rate: 3.23%
-- Flow 1:
Average throughput: 12.10 Mbit/s
95th percentile per-packet one-way delay: 61.856 ms
Loss rate: 2.66%
-- Flow 2:
Average throughput: 29.51 Mbit/s
95th percentile per-packet one-way delay: 61.670 ms
Loss rate: 3.14%
-- Flow 3:
Average throughput: 19.70 Mbit/s
95th percentile per-packet one-way delay: 63.651 ms
Loss rate: 4.54%
```

Run 1: Report of Copa — Data Link



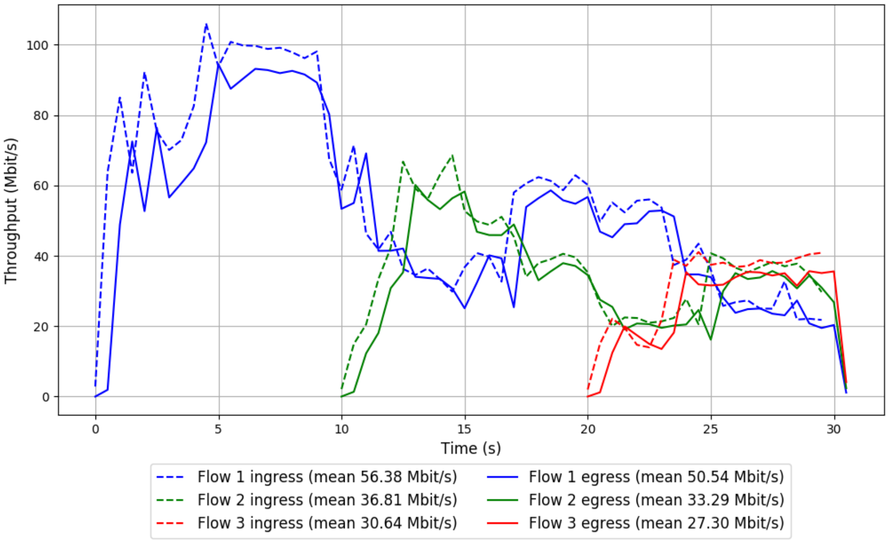


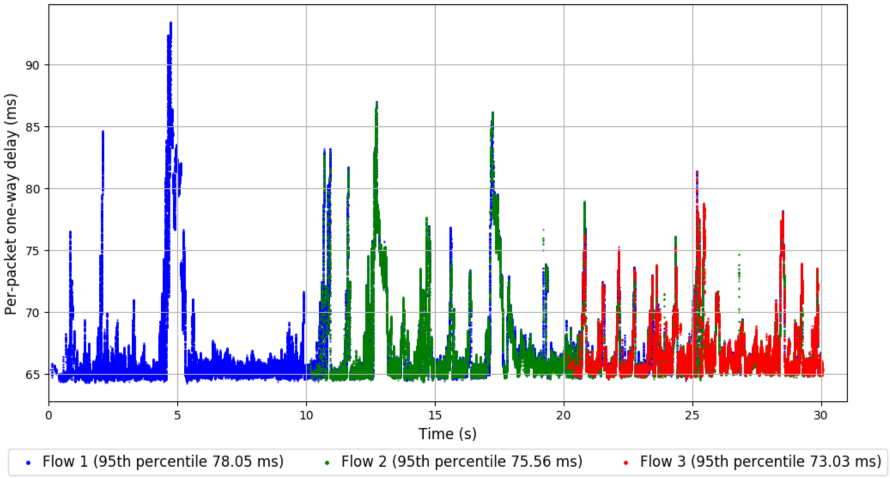
```
Run 2: Statistics of Copa

Start at: 2018-05-30 16:13:52
End at: 2018-05-30 16:14:22
Local clock offset: -2.671 ms
Remote clock offset: -3.197 ms

# Below is generated by plot.py at 2018-05-30 19:02:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.77 Mbit/s
95th percentile per-packet one-way delay: 76.494 ms
Loss rate: 10.23%
-- Flow 1:
Average throughput: 50.54 Mbit/s
95th percentile per-packet one-way delay: 78.051 ms
Loss rate: 10.39%
-- Flow 2:
Average throughput: 33.29 Mbit/s
95th percentile per-packet one-way delay: 75.559 ms
Loss rate: 9.58%
-- Flow 3:
Average throughput: 27.30 Mbit/s
95th percentile per-packet one-way delay: 73.032 ms
Loss rate: 10.92%
```

Run 2: Report of Copa — Data Link



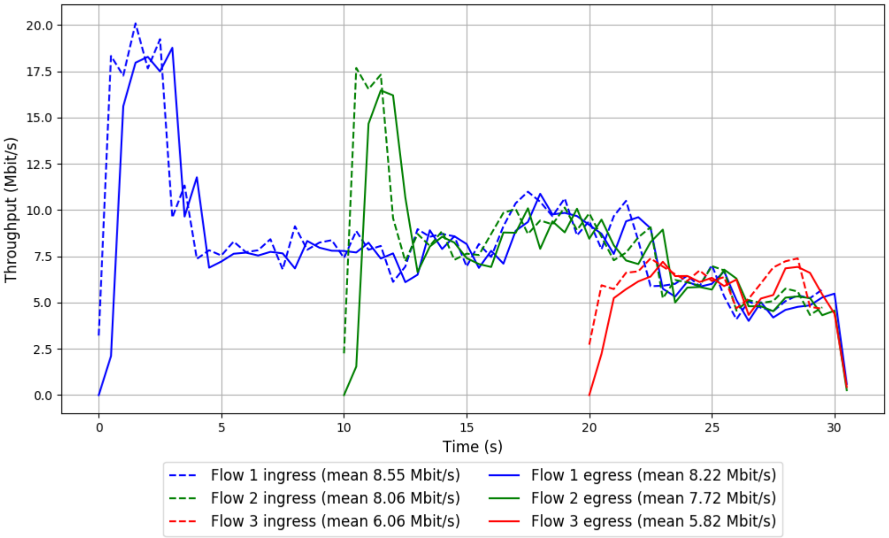


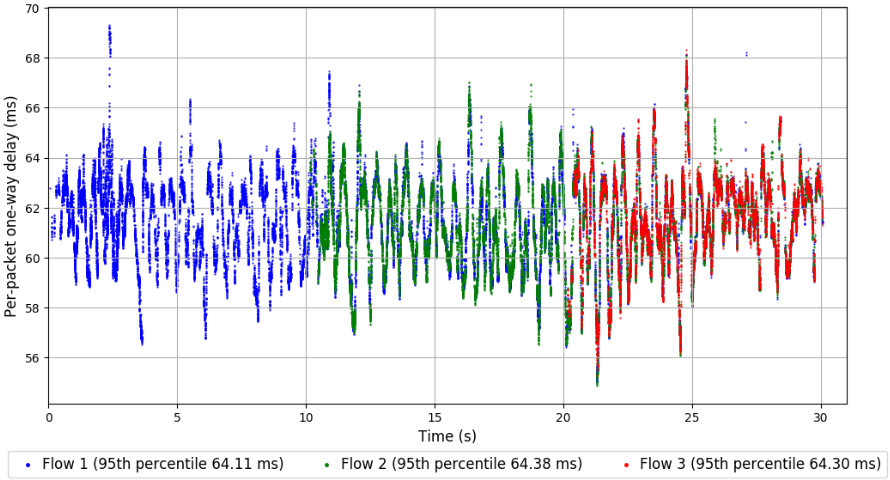
```
Run 3: Statistics of Copa

Start at: 2018-05-30 16:33:13
End at: 2018-05-30 16:33:43
Local clock offset: -0.078 ms
Remote clock offset: -11.184 ms

# Below is generated by plot.py at 2018-05-30 19:02:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.30 Mbit/s
95th percentile per-packet one-way delay: 64.214 ms
Loss rate: 3.98%
-- Flow 1:
Average throughput: 8.22 Mbit/s
95th percentile per-packet one-way delay: 64.107 ms
Loss rate: 3.79%
-- Flow 2:
Average throughput: 7.72 Mbit/s
95th percentile per-packet one-way delay: 64.376 ms
Loss rate: 4.26%
-- Flow 3:
Average throughput: 5.82 Mbit/s
95th percentile per-packet one-way delay: 64.298 ms
Loss rate: 4.05%
```

Run 3: Report of Copa — Data Link



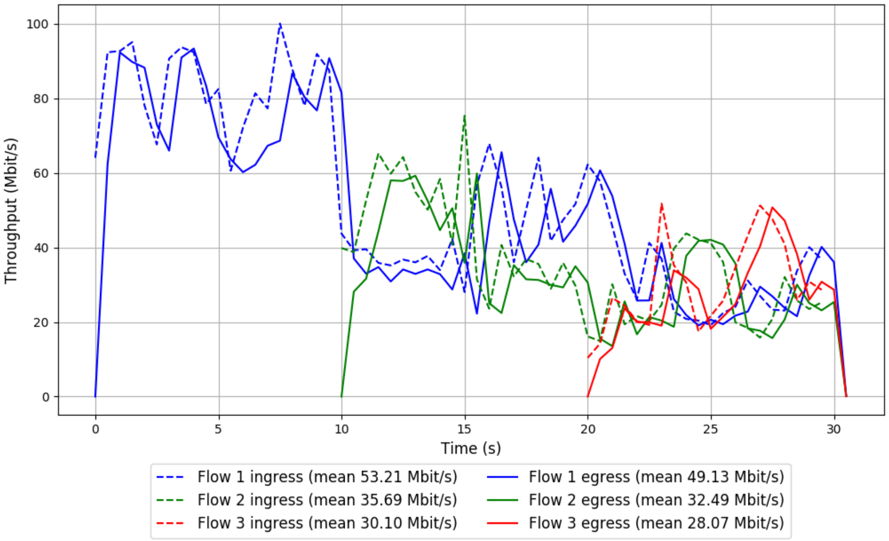


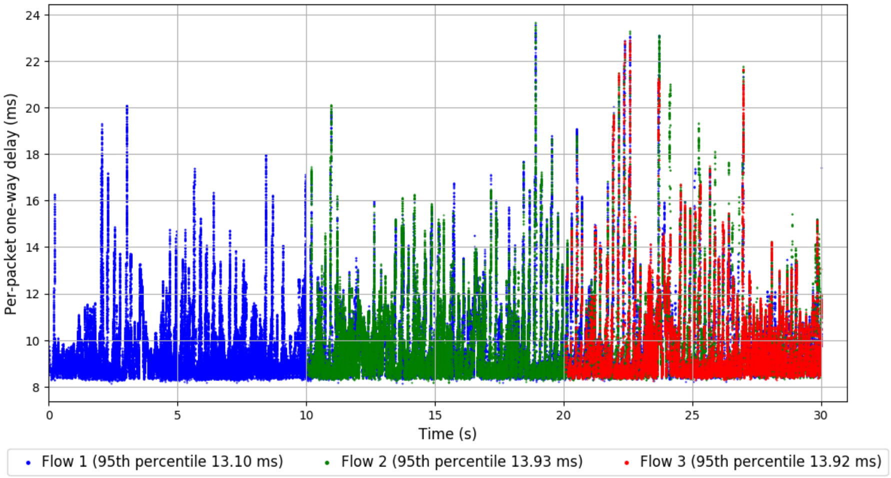
```
Run 4: Statistics of Copa

Start at: 2018-05-30 16:52:54
End at: 2018-05-30 16:53:24
Local clock offset: 1.147 ms
Remote clock offset: -14.374 ms

# Below is generated by plot.py at 2018-05-30 19:02:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.10 Mbit/s
95th percentile per-packet one-way delay: 13.456 ms
Loss rate: 7.91%
-- Flow 1:
Average throughput: 49.13 Mbit/s
95th percentile per-packet one-way delay: 13.104 ms
Loss rate: 7.66%
-- Flow 2:
Average throughput: 32.49 Mbit/s
95th percentile per-packet one-way delay: 13.925 ms
Loss rate: 8.95%
-- Flow 3:
Average throughput: 28.07 Mbit/s
95th percentile per-packet one-way delay: 13.917 ms
Loss rate: 6.71%
```

Run 4: Report of Copa — Data Link



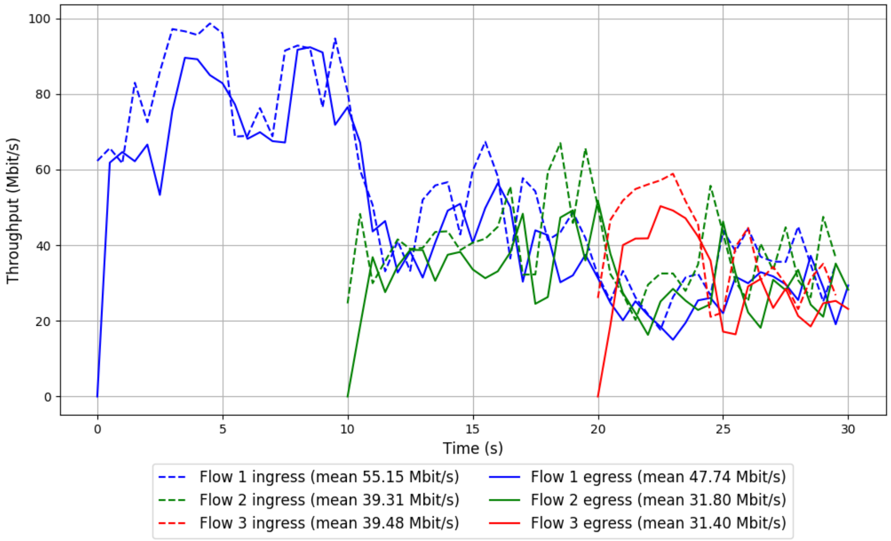


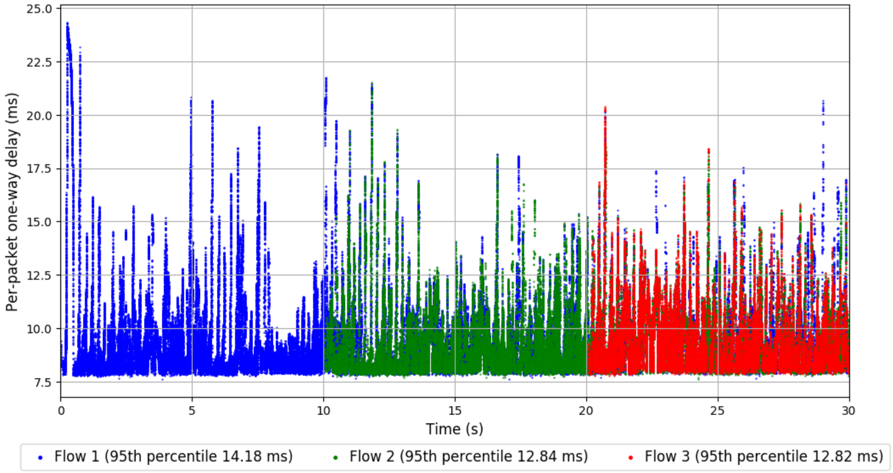
```
Run 5: Statistics of Copa

Start at: 2018-05-30 17:11:46
End at: 2018-05-30 17:12:16
Local clock offset: 0.991 ms
Remote clock offset: -17.071 ms

# Below is generated by plot.py at 2018-05-30 19:02:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.36 Mbit/s
95th percentile per-packet one-way delay: 13.493 ms
Loss rate: 15.99%
-- Flow 1:
Average throughput: 47.74 Mbit/s
95th percentile per-packet one-way delay: 14.179 ms
Loss rate: 13.44%
-- Flow 2:
Average throughput: 31.80 Mbit/s
95th percentile per-packet one-way delay: 12.837 ms
Loss rate: 19.09%
-- Flow 3:
Average throughput: 31.40 Mbit/s
95th percentile per-packet one-way delay: 12.819 ms
Loss rate: 20.50%
```

Run 5: Report of Copa — Data Link



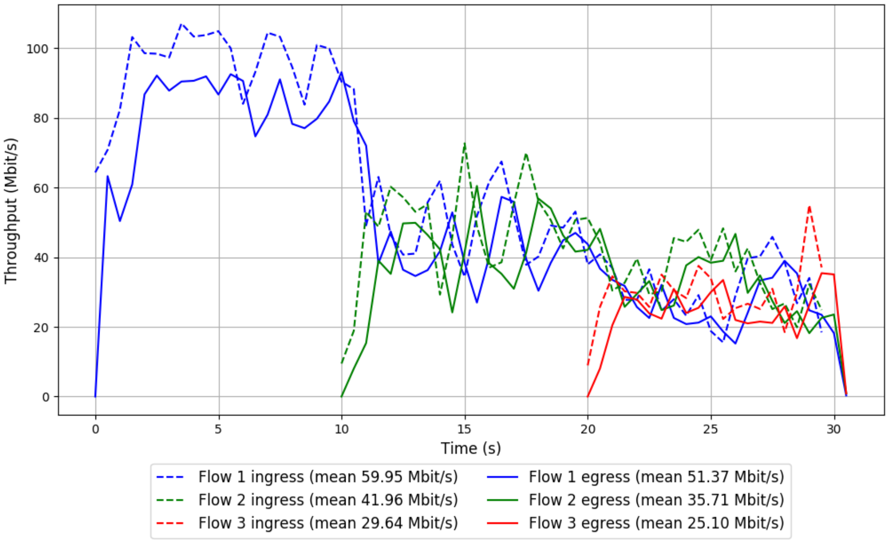


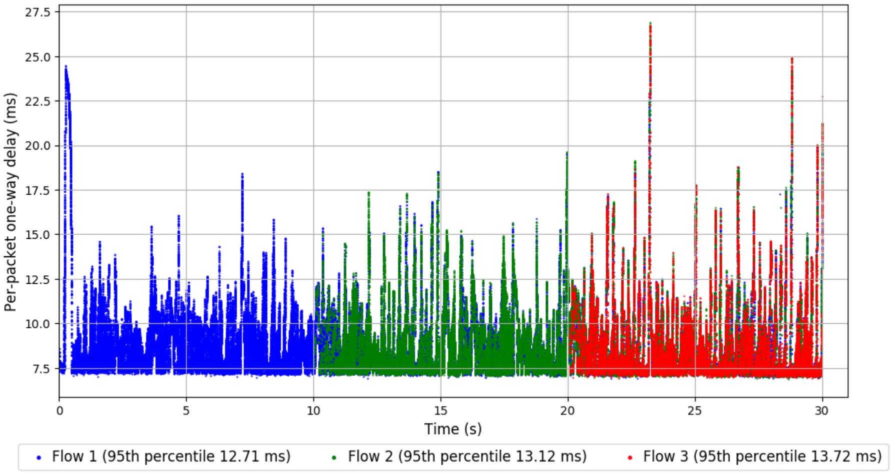
```
Run 6: Statistics of Copa

Start at: 2018-05-30 17:31:11
End at: 2018-05-30 17:31:41
Local clock offset: 2.188 ms
Remote clock offset: -3.068 ms

# Below is generated by plot.py at 2018-05-30 19:03:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.50 Mbit/s
95th percentile per-packet one-way delay: 12.939 ms
Loss rate: 14.54%
-- Flow 1:
Average throughput: 51.37 Mbit/s
95th percentile per-packet one-way delay: 12.711 ms
Loss rate: 14.28%
-- Flow 2:
Average throughput: 35.71 Mbit/s
95th percentile per-packet one-way delay: 13.118 ms
Loss rate: 14.84%
-- Flow 3:
Average throughput: 25.10 Mbit/s
95th percentile per-packet one-way delay: 13.723 ms
Loss rate: 15.24%
```

Run 6: Report of Copa — Data Link



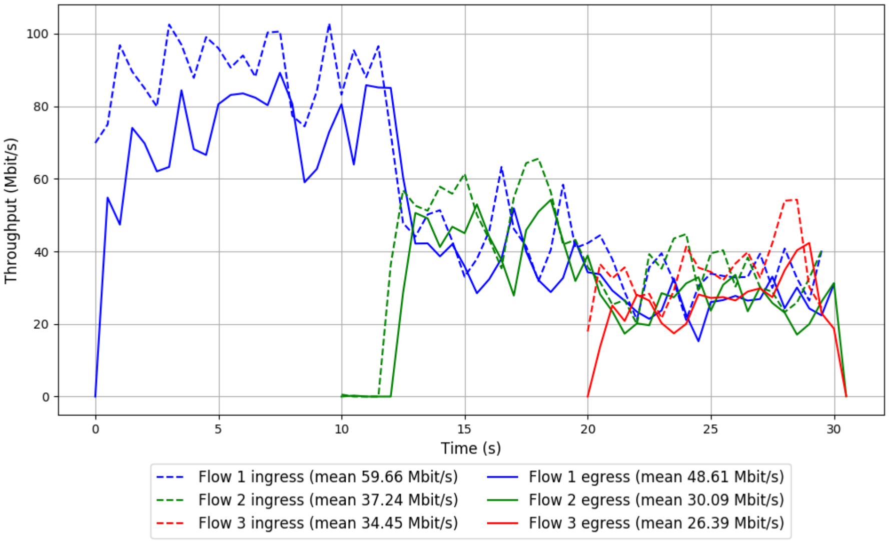


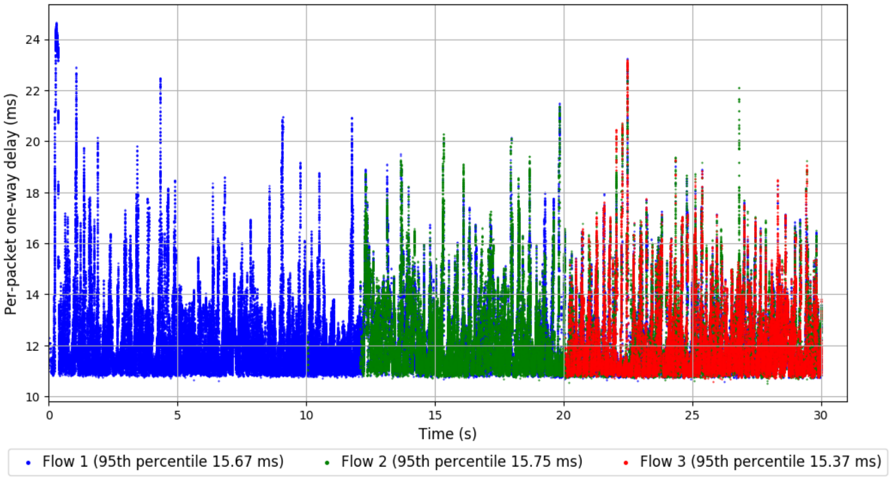
```
Run 7: Statistics of Copa

Start at: 2018-05-30 17:50:09
End at: 2018-05-30 17:50:39
Local clock offset: -1.73 ms
Remote clock offset: 1.724 ms

# Below is generated by plot.py at 2018-05-30 19:03:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.41 Mbit/s
95th percentile per-packet one-way delay: 15.653 ms
Loss rate: 19.27%
-- Flow 1:
Average throughput: 48.61 Mbit/s
95th percentile per-packet one-way delay: 15.668 ms
Loss rate: 18.51%
-- Flow 2:
Average throughput: 30.09 Mbit/s
95th percentile per-packet one-way delay: 15.746 ms
Loss rate: 19.19%
-- Flow 3:
Average throughput: 26.39 Mbit/s
95th percentile per-packet one-way delay: 15.368 ms
Loss rate: 23.38%
```

Run 7: Report of Copa — Data Link



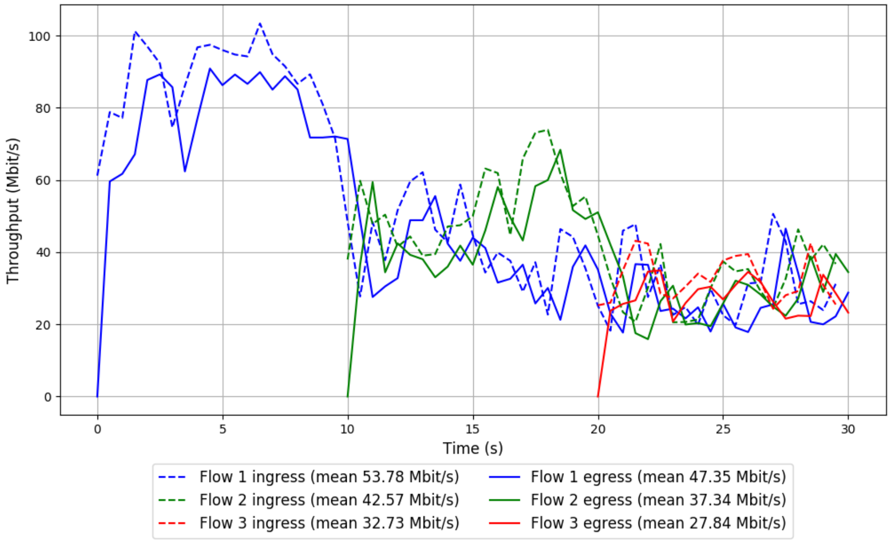


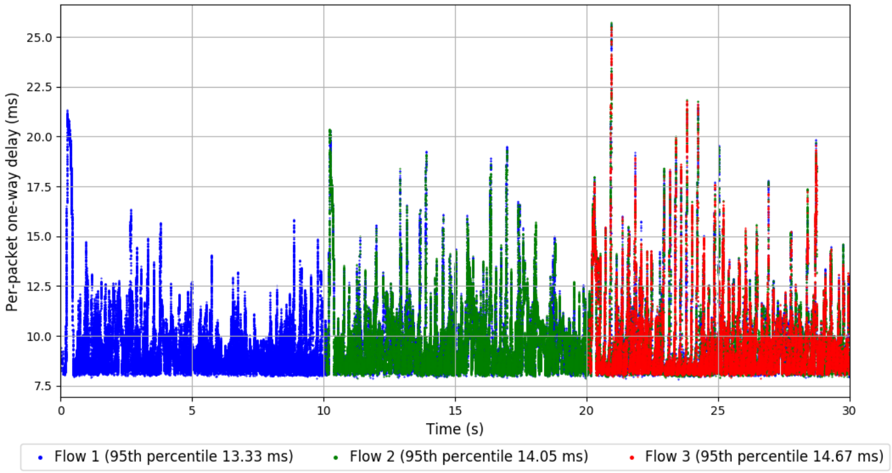
```
Run 8: Statistics of Copa

Start at: 2018-05-30 18:08:54
End at: 2018-05-30 18:09:24
Local clock offset: 1.218 ms
Remote clock offset: 0.183 ms

# Below is generated by plot.py at 2018-05-30 19:03:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.48 Mbit/s
95th percentile per-packet one-way delay: 13.780 ms
Loss rate: 12.40%
-- Flow 1:
Average throughput: 47.35 Mbit/s
95th percentile per-packet one-way delay: 13.326 ms
Loss rate: 11.95%
-- Flow 2:
Average throughput: 37.34 Mbit/s
95th percentile per-packet one-way delay: 14.046 ms
Loss rate: 12.29%
-- Flow 3:
Average throughput: 27.84 Mbit/s
95th percentile per-packet one-way delay: 14.669 ms
Loss rate: 14.94%
```

Run 8: Report of Copa — Data Link



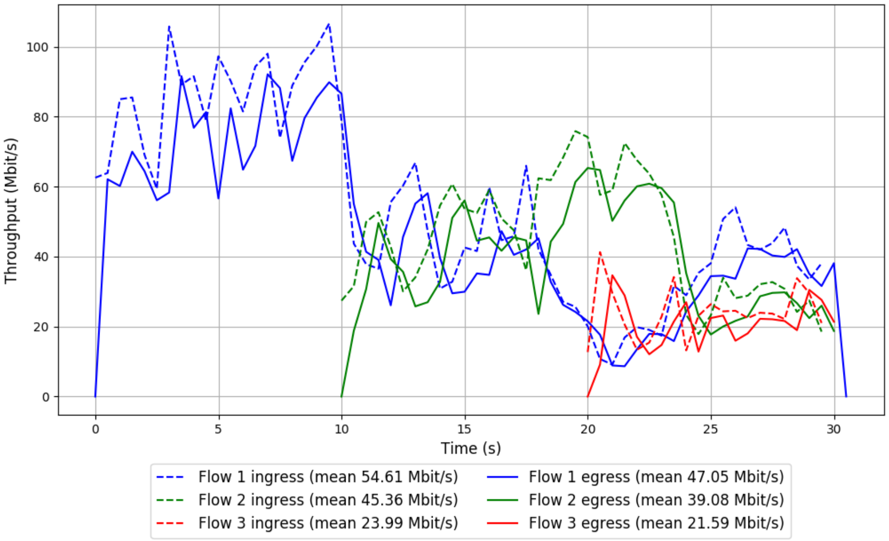


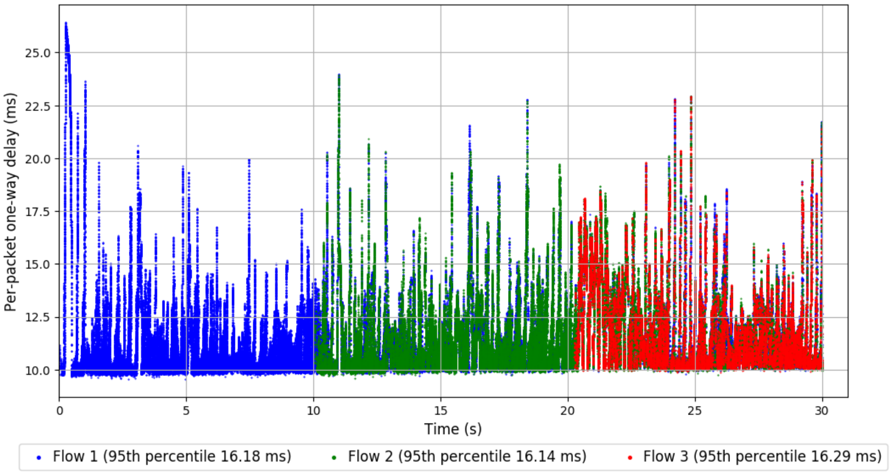
```
Run 9: Statistics of Copa

Start at: 2018-05-30 18:27:57
End at: 2018-05-30 18:28:27
Local clock offset: -2.128 ms
Remote clock offset: -1.797 ms

# Below is generated by plot.py at 2018-05-30 19:03:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.11 Mbit/s
95th percentile per-packet one-way delay: 16.188 ms
Loss rate: 13.67%
-- Flow 1:
Average throughput: 47.05 Mbit/s
95th percentile per-packet one-way delay: 16.184 ms
Loss rate: 13.85%
-- Flow 2:
Average throughput: 39.08 Mbit/s
95th percentile per-packet one-way delay: 16.135 ms
Loss rate: 13.84%
-- Flow 3:
Average throughput: 21.59 Mbit/s
95th percentile per-packet one-way delay: 16.285 ms
Loss rate: 11.80%
```

Run 9: Report of Copa — Data Link



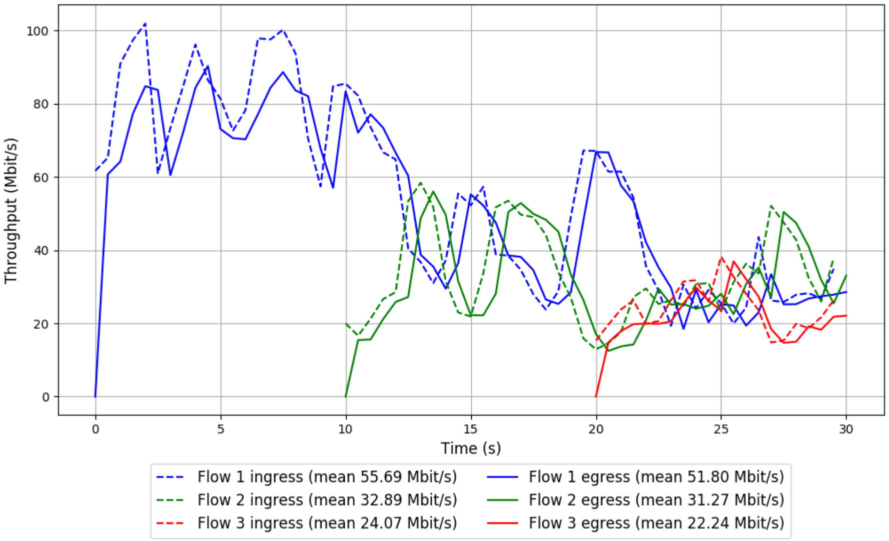


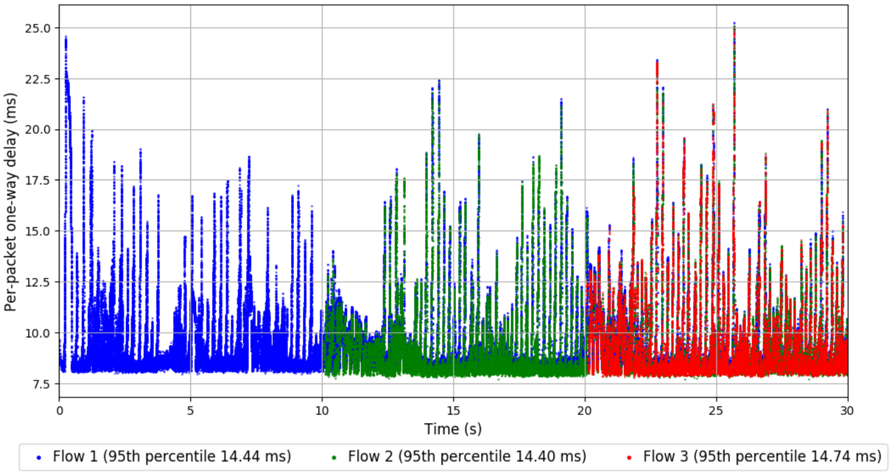
```
Run 10: Statistics of Copa

Start at: 2018-05-30 18:46:28
End at: 2018-05-30 18:46:58
Local clock offset: -0.441 ms
Remote clock offset: -6.785 ms

# Below is generated by plot.py at 2018-05-30 19:04:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.02 Mbit/s
95th percentile per-packet one-way delay: 14.464 ms
Loss rate: 6.52%
-- Flow 1:
Average throughput: 51.80 Mbit/s
95th percentile per-packet one-way delay: 14.442 ms
Loss rate: 6.99%
-- Flow 2:
Average throughput: 31.27 Mbit/s
95th percentile per-packet one-way delay: 14.396 ms
Loss rate: 4.93%
-- Flow 3:
Average throughput: 22.24 Mbit/s
95th percentile per-packet one-way delay: 14.744 ms
Loss rate: 7.63%
```

Run 10: Report of Copa — Data Link



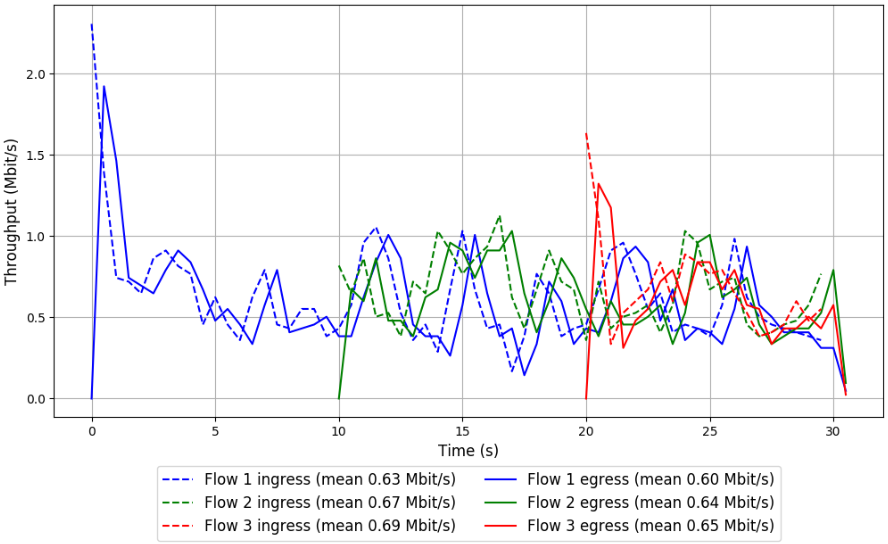


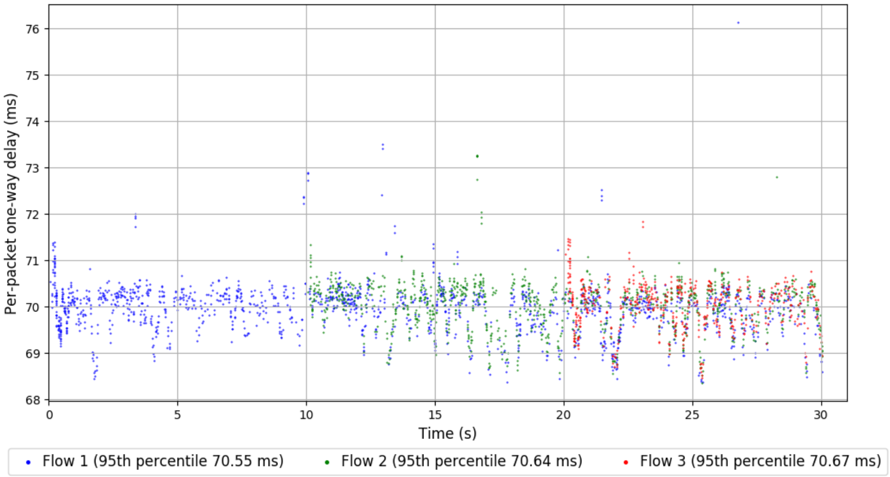
```
Run 1: Statistics of TCP Cubic

Start at: 2018-05-30 15:58:00
End at: 2018-05-30 15:58:30
Local clock offset: 0.452 ms
Remote clock offset: 13.067 ms

# Below is generated by plot.py at 2018-05-30 19:04:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.24 Mbit/s
95th percentile per-packet one-way delay: 70.622 ms
Loss rate: 5.14%
-- Flow 1:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 70.551 ms
Loss rate: 5.59%
-- Flow 2:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 70.640 ms
Loss rate: 4.43%
-- Flow 3:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 70.667 ms
Loss rate: 5.27%
```

Run 1: Report of TCP Cubic — Data Link



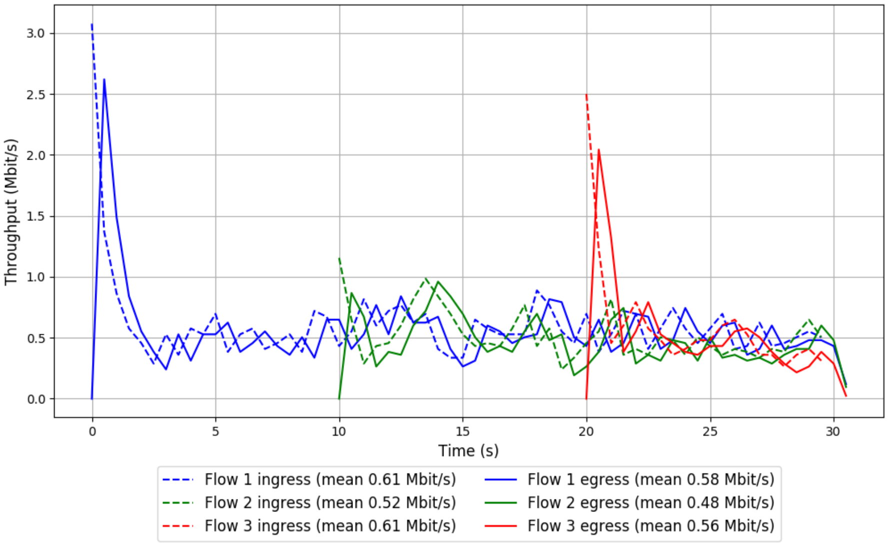


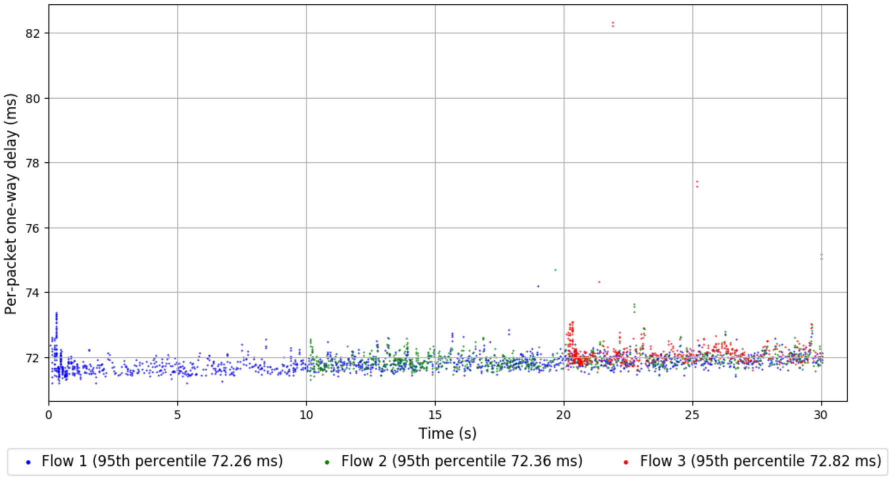
```
Run 2: Statistics of TCP Cubic

Start at: 2018-05-30 16:17:34
End at: 2018-05-30 16:18:04
Local clock offset: -2.541 ms
Remote clock offset: 0.766 ms

# Below is generated by plot.py at 2018-05-30 19:04:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.08 Mbit/s
95th percentile per-packet one-way delay: 72.434 ms
Loss rate: 6.88%
-- Flow 1:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 72.259 ms
Loss rate: 5.82%
-- Flow 2:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 72.359 ms
Loss rate: 7.81%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 72.819 ms
Loss rate: 8.46%
```

Run 2: Report of TCP Cubic — Data Link



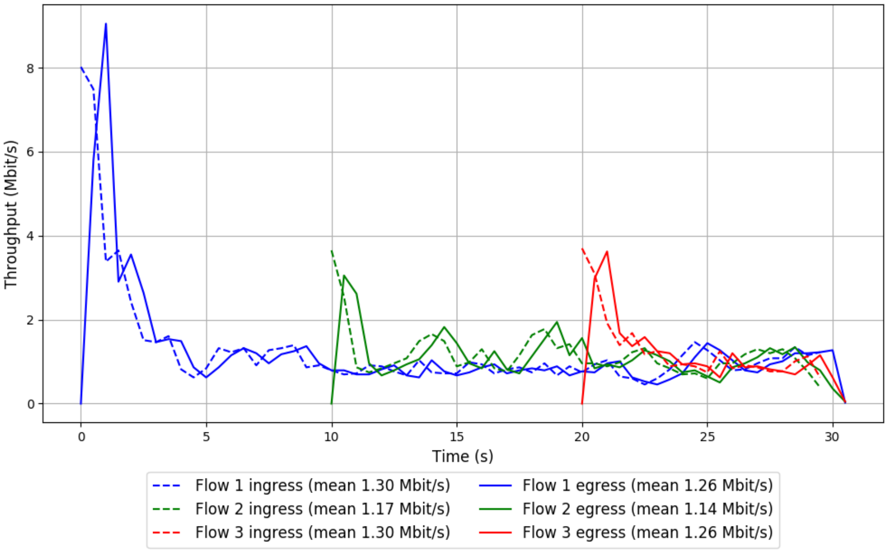


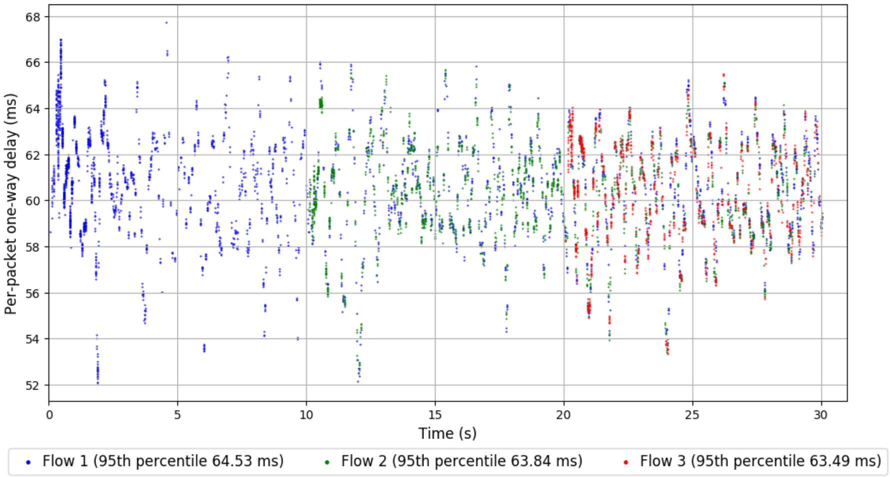
```
Run 3: Statistics of TCP Cubic

Start at: 2018-05-30 16:36:39
End at: 2018-05-30 16:37:09
Local clock offset: 0.641 ms
Remote clock offset: -11.488 ms

# Below is generated by plot.py at 2018-05-30 19:04:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 64.112 ms
Loss rate: 2.89%
-- Flow 1:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 64.532 ms
Loss rate: 2.96%
-- Flow 2:
Average throughput: 1.14 Mbit/s
95th percentile per-packet one-way delay: 63.838 ms
Loss rate: 2.73%
-- Flow 3:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 63.495 ms
Loss rate: 2.97%
```

Run 3: Report of TCP Cubic — Data Link



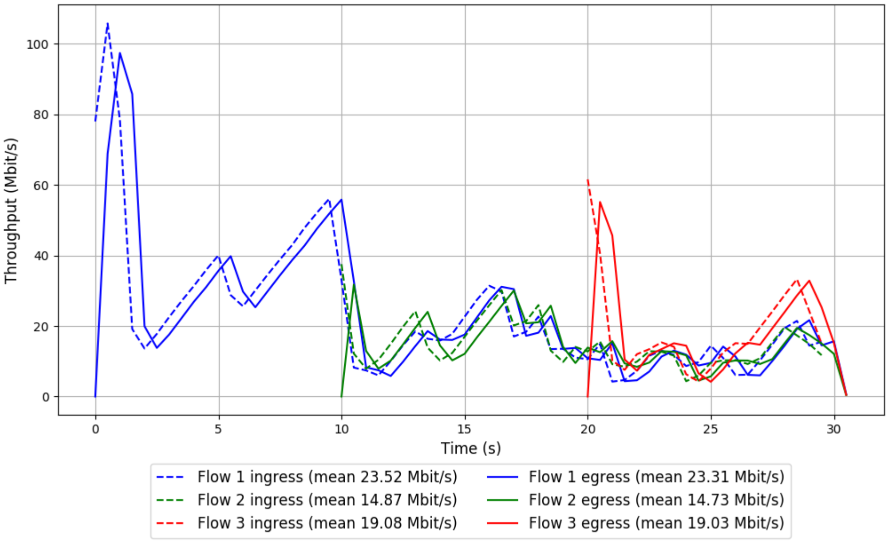


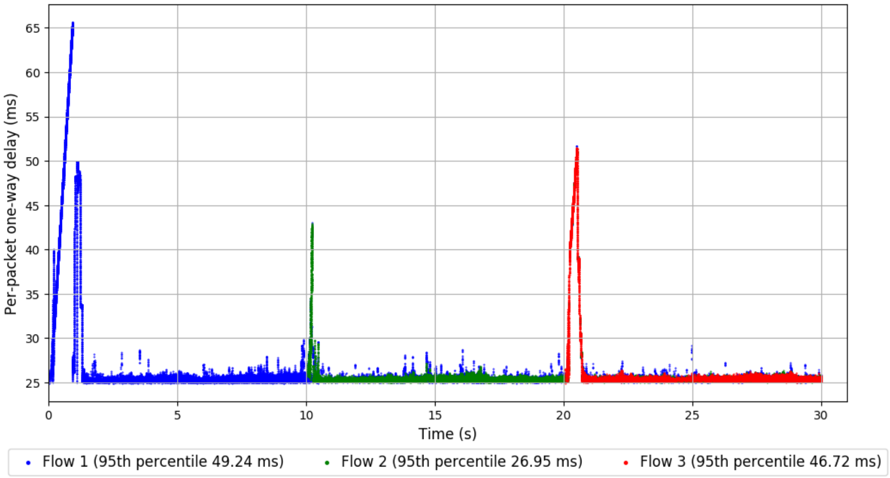
```
Run 4: Statistics of TCP Cubic

Start at: 2018-05-30 16:56:37
End at: 2018-05-30 16:57:07
Local clock offset: 0.154 ms
Remote clock offset: 0.98 ms

# Below is generated by plot.py at 2018-05-30 19:04:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.46 Mbit/s
95th percentile per-packet one-way delay: 47.701 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 23.31 Mbit/s
95th percentile per-packet one-way delay: 49.241 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 14.73 Mbit/s
95th percentile per-packet one-way delay: 26.949 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 19.03 Mbit/s
95th percentile per-packet one-way delay: 46.720 ms
Loss rate: 0.26%
```

Run 4: Report of TCP Cubic — Data Link



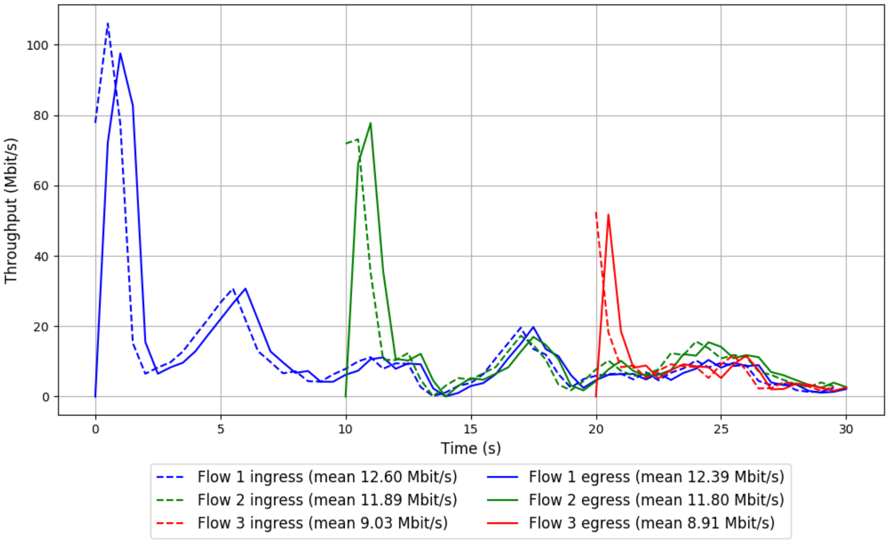


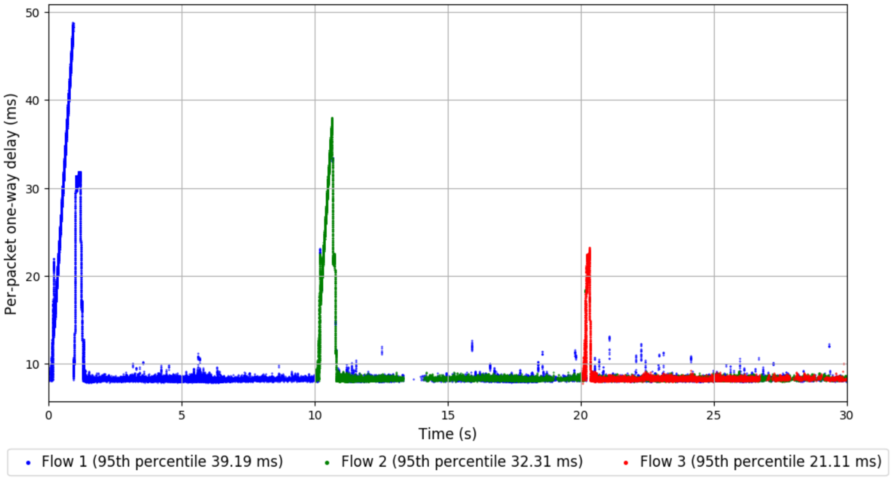
```
Run 5: Statistics of TCP Cubic

Start at: 2018-05-30 17:15:32
End at: 2018-05-30 17:16:02
Local clock offset: 1.915 ms
Remote clock offset: -16.467 ms

# Below is generated by plot.py at 2018-05-30 19:04:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.22 Mbit/s
95th percentile per-packet one-way delay: 34.769 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 12.39 Mbit/s
95th percentile per-packet one-way delay: 39.186 ms
Loss rate: 1.66%
-- Flow 2:
Average throughput: 11.80 Mbit/s
95th percentile per-packet one-way delay: 32.313 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 8.91 Mbit/s
95th percentile per-packet one-way delay: 21.106 ms
Loss rate: 1.32%
```

Run 5: Report of TCP Cubic — Data Link



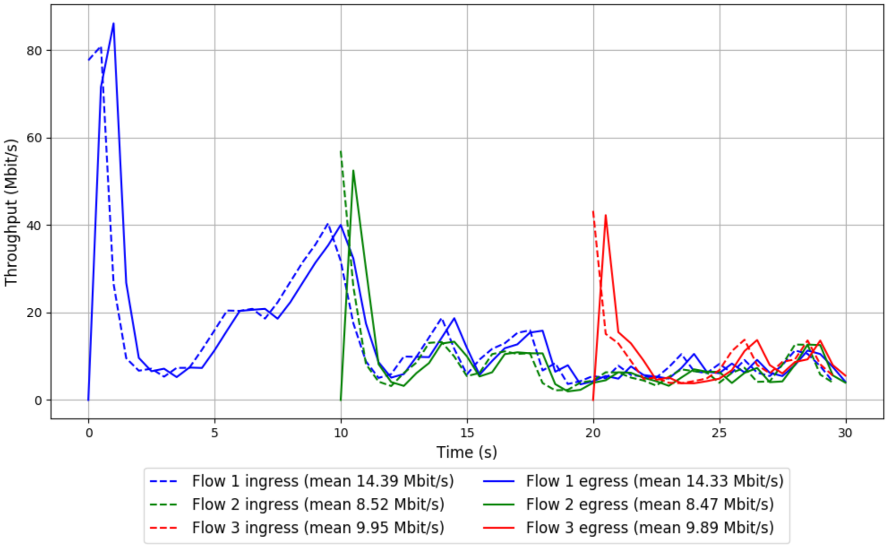


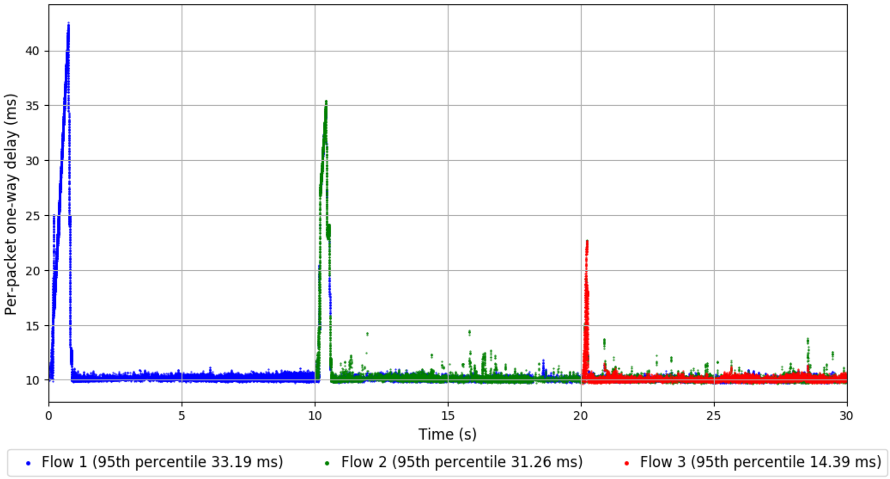
```
Run 6: Statistics of TCP Cubic

Start at: 2018-05-30 17:35:04
End at: 2018-05-30 17:35:34
Local clock offset: 0.409 ms
Remote clock offset: -0.648 ms

# Below is generated by plot.py at 2018-05-30 19:04:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.26 Mbit/s
95th percentile per-packet one-way delay: 31.333 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 14.33 Mbit/s
95th percentile per-packet one-way delay: 33.194 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 8.47 Mbit/s
95th percentile per-packet one-way delay: 31.256 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 9.89 Mbit/s
95th percentile per-packet one-way delay: 14.387 ms
Loss rate: 0.59%
```

Run 6: Report of TCP Cubic — Data Link



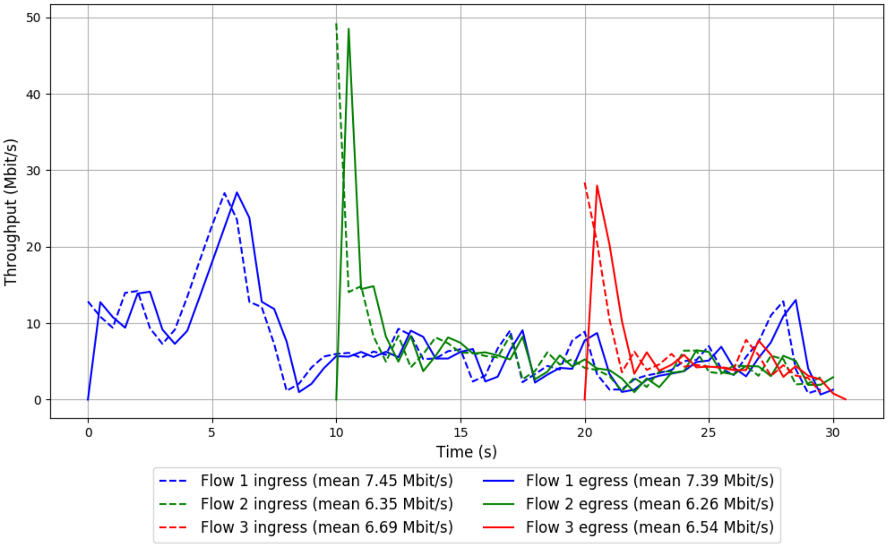


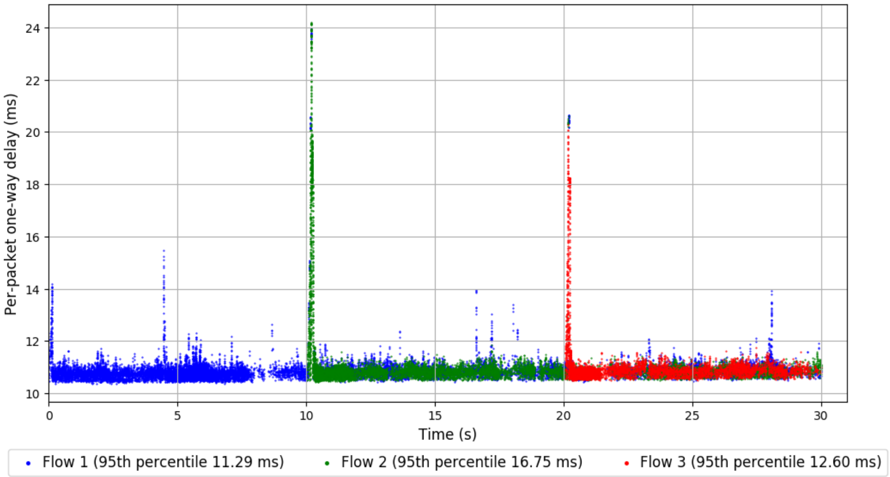
```
Run 7: Statistics of TCP Cubic

Start at: 2018-05-30 17:53:40
End at: 2018-05-30 17:54:10
Local clock offset: -0.161 ms
Remote clock offset: 1.994 ms

# Below is generated by plot.py at 2018-05-30 19:04:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.73 Mbit/s
95th percentile per-packet one-way delay: 11.630 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 7.39 Mbit/s
95th percentile per-packet one-way delay: 11.287 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 6.26 Mbit/s
95th percentile per-packet one-way delay: 16.751 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 6.54 Mbit/s
95th percentile per-packet one-way delay: 12.601 ms
Loss rate: 2.21%
```

Run 7: Report of TCP Cubic — Data Link



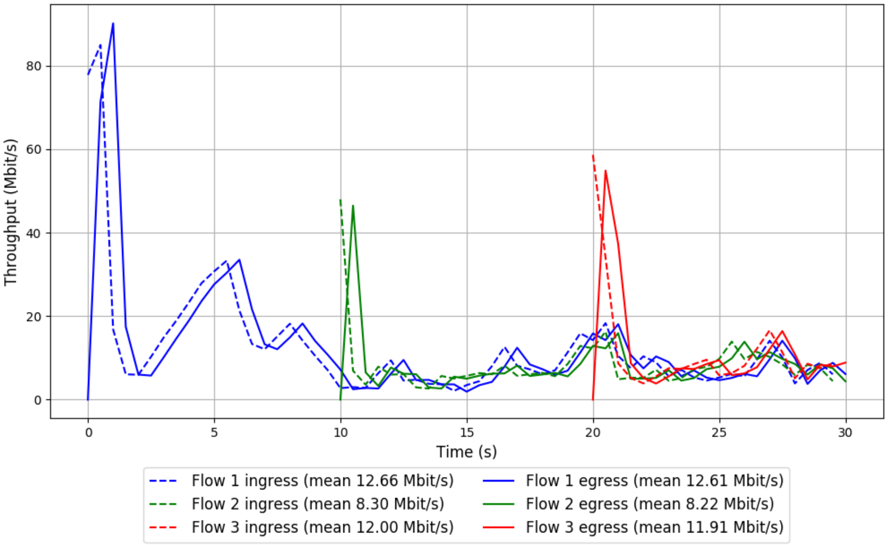


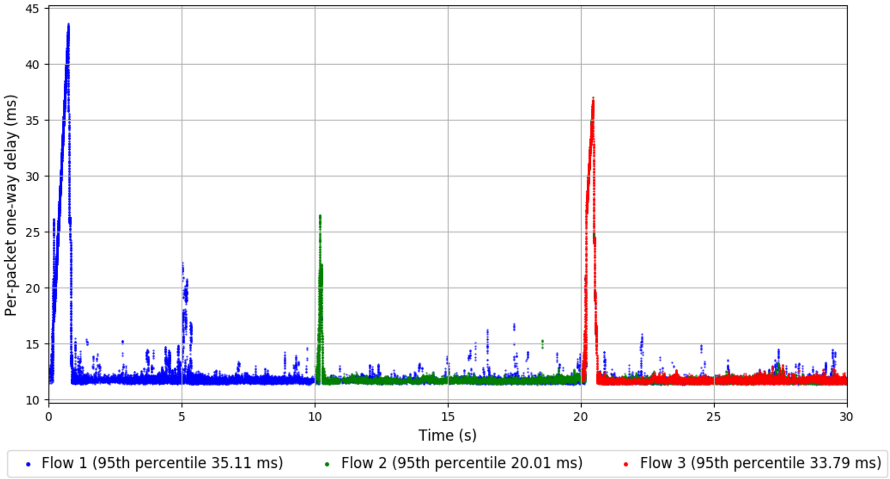
```
Run 8: Statistics of TCP Cubic

Start at: 2018-05-30 18:12:29
End at: 2018-05-30 18:12:59
Local clock offset: -2.835 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2018-05-30 19:04:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.05 Mbit/s
95th percentile per-packet one-way delay: 33.014 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 35.114 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 8.22 Mbit/s
95th percentile per-packet one-way delay: 20.007 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 11.91 Mbit/s
95th percentile per-packet one-way delay: 33.786 ms
Loss rate: 0.77%
```

Run 8: Report of TCP Cubic — Data Link



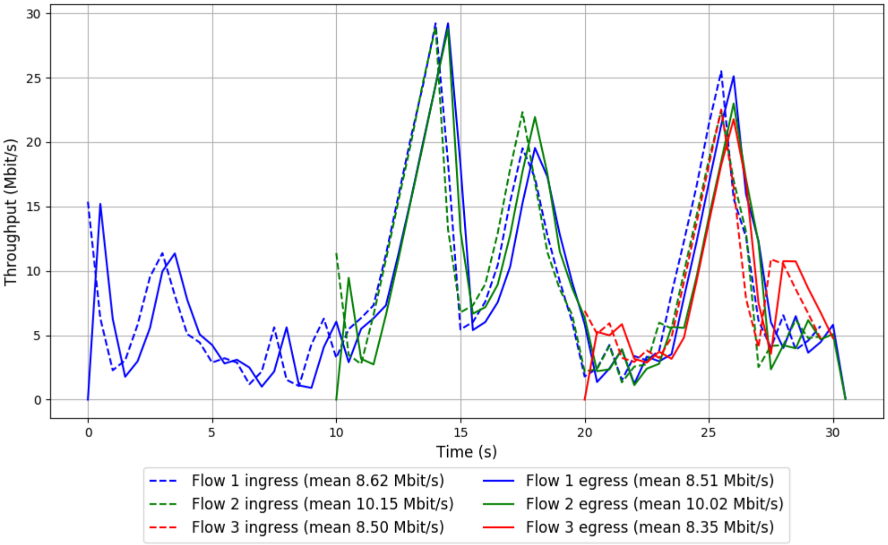


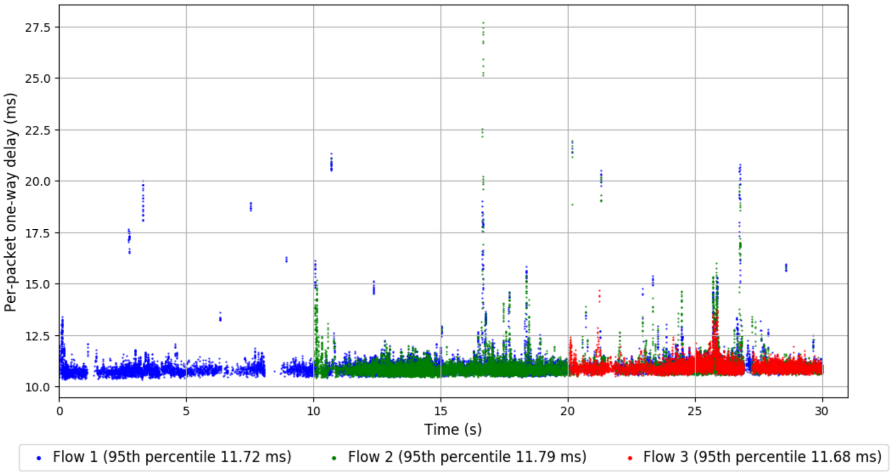
```
Run 9: Statistics of TCP Cubic

Start at: 2018-05-30 18:31:28
End at: 2018-05-30 18:31:58
Local clock offset: -2.567 ms
Remote clock offset: -3.424 ms

# Below is generated by plot.py at 2018-05-30 19:04:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.96 Mbit/s
95th percentile per-packet one-way delay: 11.725 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 8.51 Mbit/s
95th percentile per-packet one-way delay: 11.719 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 10.02 Mbit/s
95th percentile per-packet one-way delay: 11.790 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 8.35 Mbit/s
95th percentile per-packet one-way delay: 11.678 ms
Loss rate: 1.76%
```

Run 9: Report of TCP Cubic — Data Link



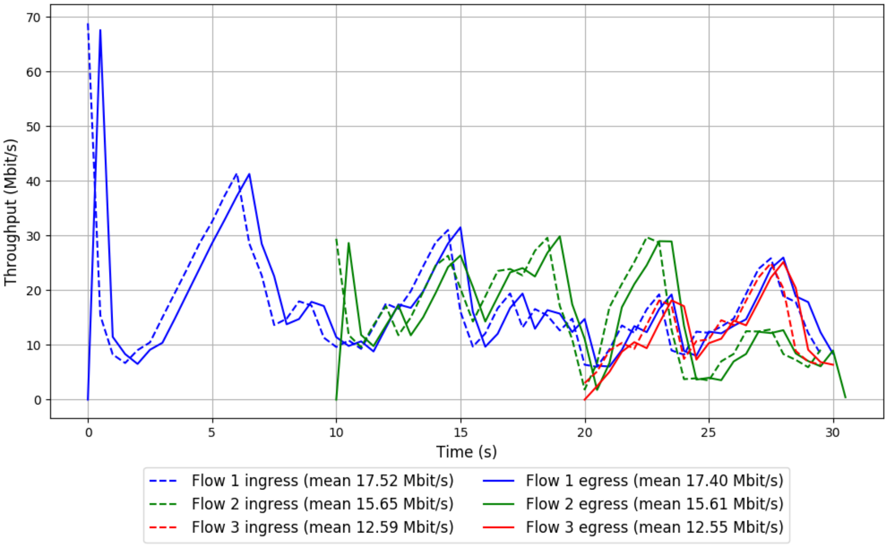


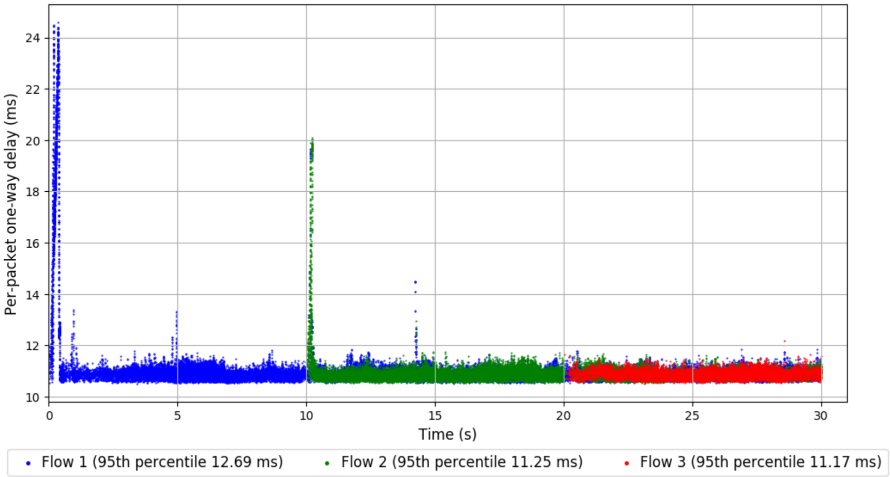
```
Run 10: Statistics of TCP Cubic

Start at: 2018-05-30 18:49:57
End at: 2018-05-30 18:50:27
Local clock offset: -2.978 ms
Remote clock offset: -7.059 ms

# Below is generated by plot.py at 2018-05-30 19:04:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.97 Mbit/s
95th percentile per-packet one-way delay: 11.369 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 17.40 Mbit/s
95th percentile per-packet one-way delay: 12.689 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 15.61 Mbit/s
95th percentile per-packet one-way delay: 11.254 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 12.55 Mbit/s
95th percentile per-packet one-way delay: 11.167 ms
Loss rate: 0.28%
```

Run 10: Report of TCP Cubic — Data Link



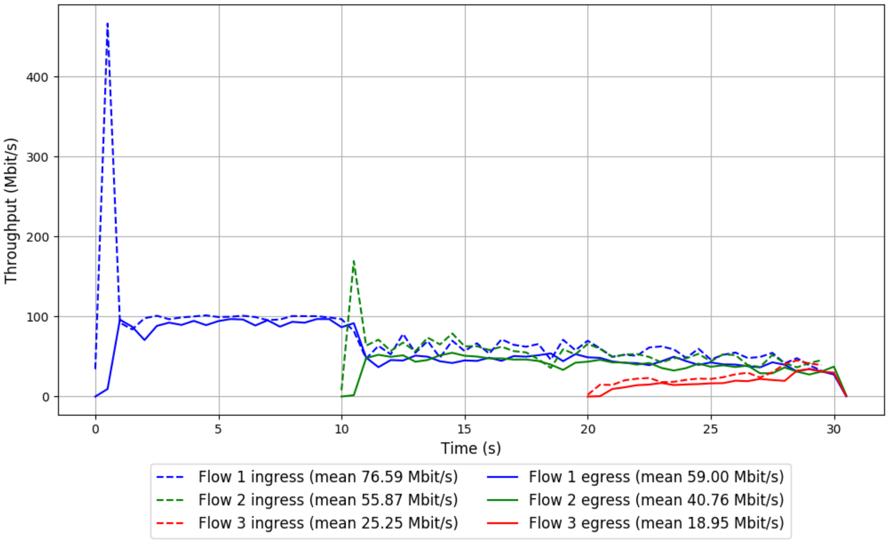


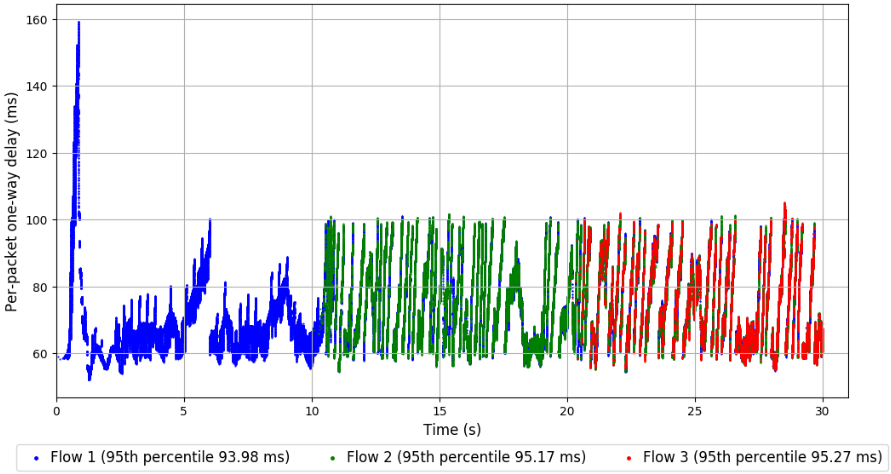
```
Run 1: Statistics of FillP

Start at: 2018-05-30 15:53:20
End at: 2018-05-30 15:53:50
Local clock offset: 0.121 ms
Remote clock offset: 4.251 ms

# Below is generated by plot.py at 2018-05-30 19:04:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.36 Mbit/s
95th percentile per-packet one-way delay: 94.583 ms
Loss rate: 24.37%
-- Flow 1:
Average throughput: 59.00 Mbit/s
95th percentile per-packet one-way delay: 93.981 ms
Loss rate: 22.99%
-- Flow 2:
Average throughput: 40.76 Mbit/s
95th percentile per-packet one-way delay: 95.171 ms
Loss rate: 27.05%
-- Flow 3:
Average throughput: 18.95 Mbit/s
95th percentile per-packet one-way delay: 95.270 ms
Loss rate: 25.07%
```

Run 1: Report of FillP — Data Link



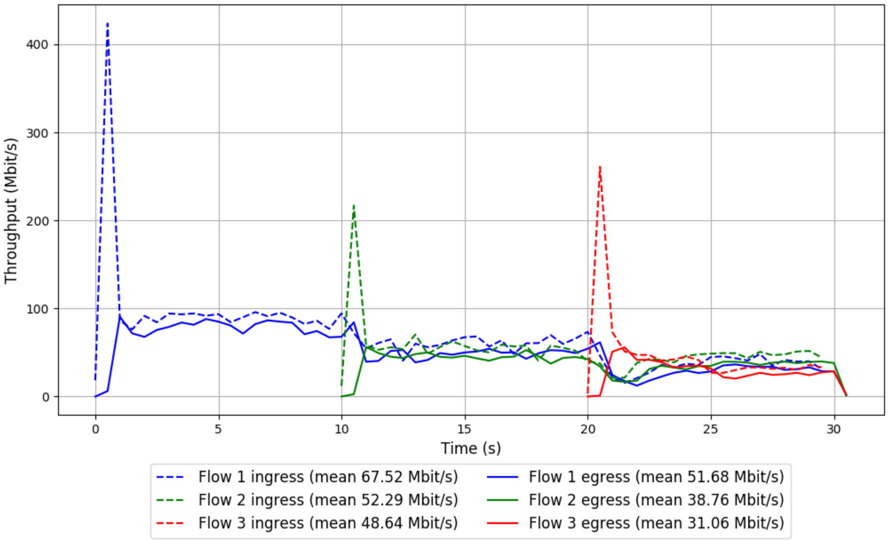


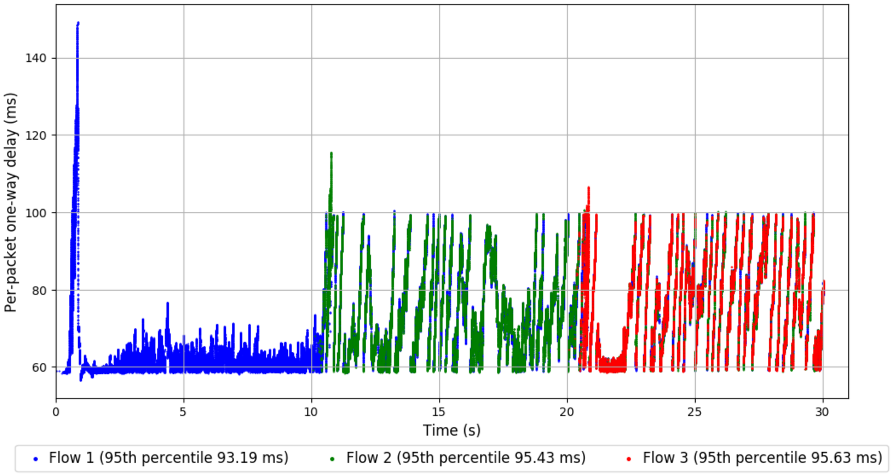
```
Run 2: Statistics of FillP

Start at: 2018-05-30 16:12:34
End at: 2018-05-30 16:13:04
Local clock offset: 2.451 ms
Remote clock offset: -2.53 ms

# Below is generated by plot.py at 2018-05-30 19:04:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.78 Mbit/s
95th percentile per-packet one-way delay: 94.419 ms
Loss rate: 25.85%
-- Flow 1:
Average throughput: 51.68 Mbit/s
95th percentile per-packet one-way delay: 93.187 ms
Loss rate: 23.41%
-- Flow 2:
Average throughput: 38.76 Mbit/s
95th percentile per-packet one-way delay: 95.428 ms
Loss rate: 25.87%
-- Flow 3:
Average throughput: 31.06 Mbit/s
95th percentile per-packet one-way delay: 95.626 ms
Loss rate: 36.04%
```

Run 2: Report of FillP — Data Link



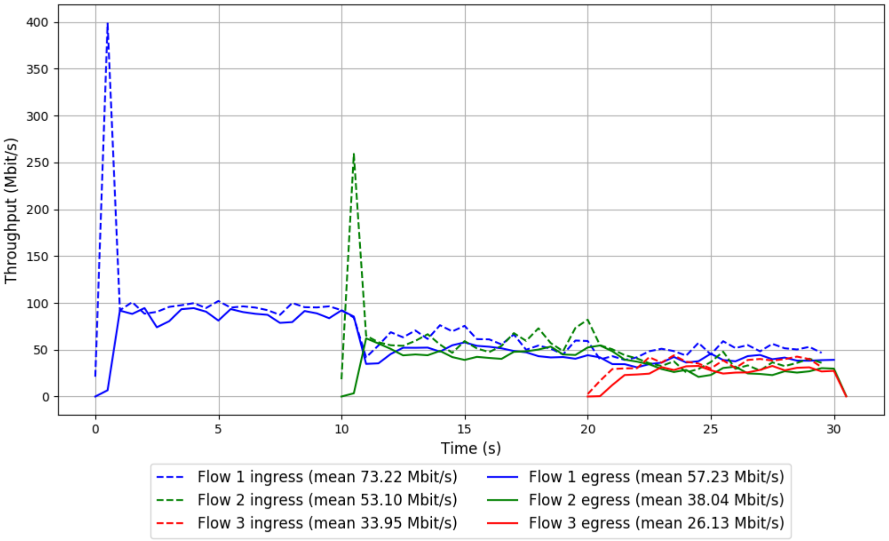


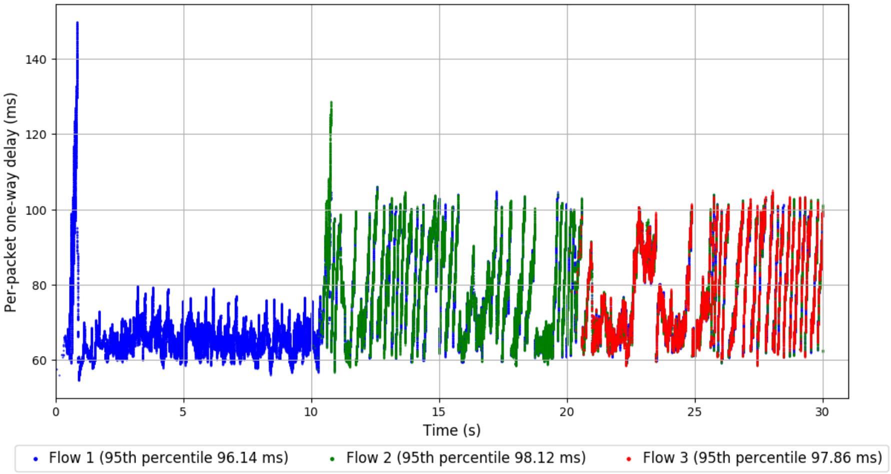
```
Run 3: Statistics of FillP

Start at: 2018-05-30 16:31:59
End at: 2018-05-30 16:32:29
Local clock offset: -1.306 ms
Remote clock offset: -12.08 ms

# Below is generated by plot.py at 2018-05-30 19:05:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.18 Mbit/s
95th percentile per-packet one-way delay: 97.076 ms
Loss rate: 23.89%
-- Flow 1:
Average throughput: 57.23 Mbit/s
95th percentile per-packet one-way delay: 96.138 ms
Loss rate: 21.83%
-- Flow 2:
Average throughput: 38.04 Mbit/s
95th percentile per-packet one-way delay: 98.119 ms
Loss rate: 28.37%
-- Flow 3:
Average throughput: 26.13 Mbit/s
95th percentile per-packet one-way delay: 97.865 ms
Loss rate: 23.24%
```

Run 3: Report of FillP — Data Link



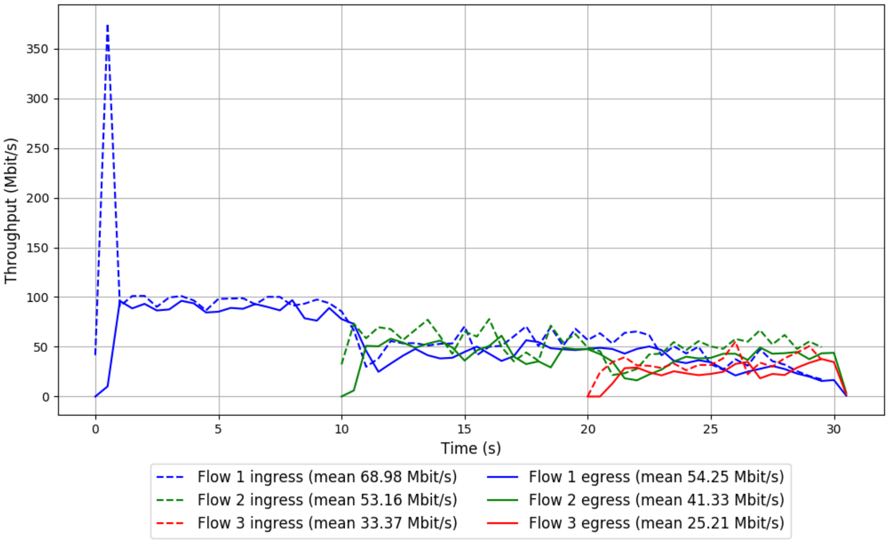


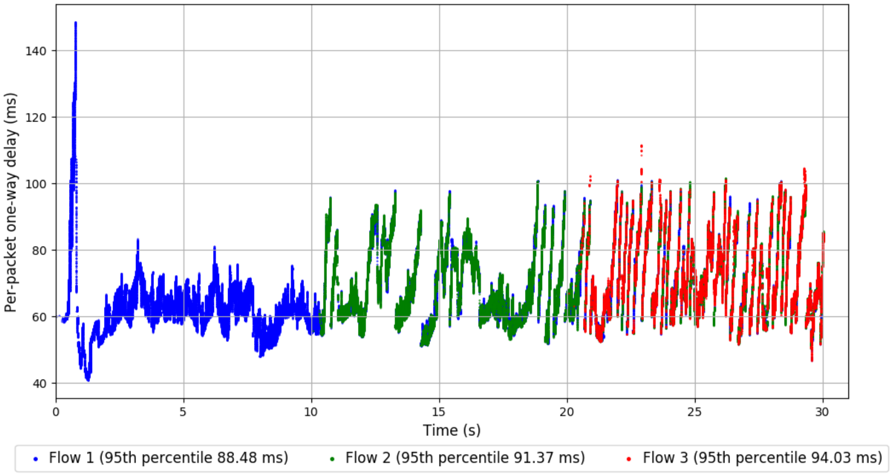
```
Run 4: Statistics of FillP

Start at: 2018-05-30 16:51:39
End at: 2018-05-30 16:52:09
Local clock offset: -2.312 ms
Remote clock offset: -14.338 ms

# Below is generated by plot.py at 2018-05-30 19:05:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.14 Mbit/s
95th percentile per-packet one-way delay: 90.315 ms
Loss rate: 21.84%
-- Flow 1:
Average throughput: 54.25 Mbit/s
95th percentile per-packet one-way delay: 88.480 ms
Loss rate: 21.29%
-- Flow 2:
Average throughput: 41.33 Mbit/s
95th percentile per-packet one-way delay: 91.366 ms
Loss rate: 22.14%
-- Flow 3:
Average throughput: 25.21 Mbit/s
95th percentile per-packet one-way delay: 94.026 ms
Loss rate: 24.32%
```

Run 4: Report of FillP — Data Link



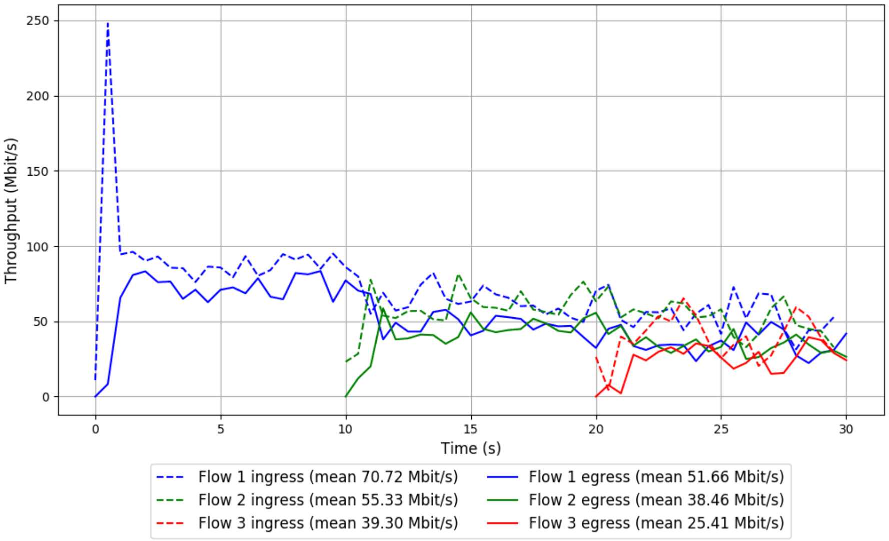


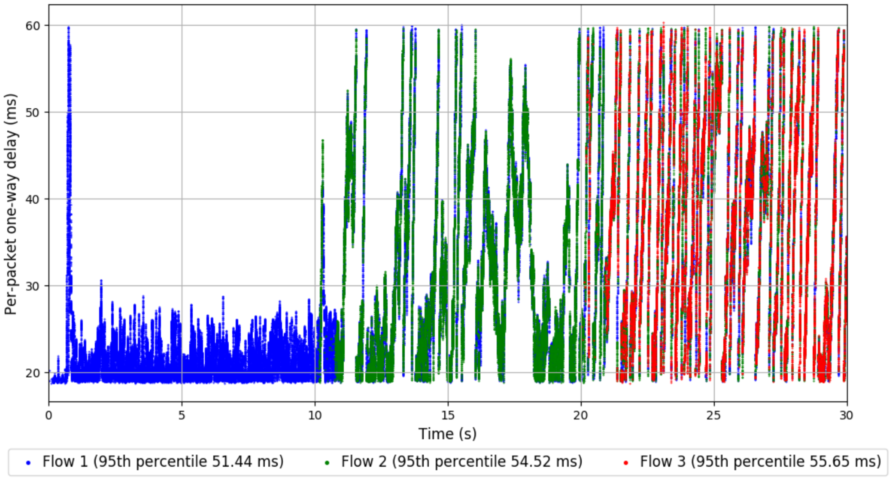
```
Run 5: Statistics of FillP

Start at: 2018-05-30 17:10:36
End at: 2018-05-30 17:11:06
Local clock offset: -2.143 ms
Remote clock offset: -8.867 ms

# Below is generated by plot.py at 2018-05-30 19:05:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.69 Mbit/s
95th percentile per-packet one-way delay: 53.362 ms
Loss rate: 28.89%
-- Flow 1:
Average throughput: 51.66 Mbit/s
95th percentile per-packet one-way delay: 51.437 ms
Loss rate: 26.91%
-- Flow 2:
Average throughput: 38.46 Mbit/s
95th percentile per-packet one-way delay: 54.525 ms
Loss rate: 30.44%
-- Flow 3:
Average throughput: 25.41 Mbit/s
95th percentile per-packet one-way delay: 55.651 ms
Loss rate: 35.27%
```

Run 5: Report of FillP — Data Link



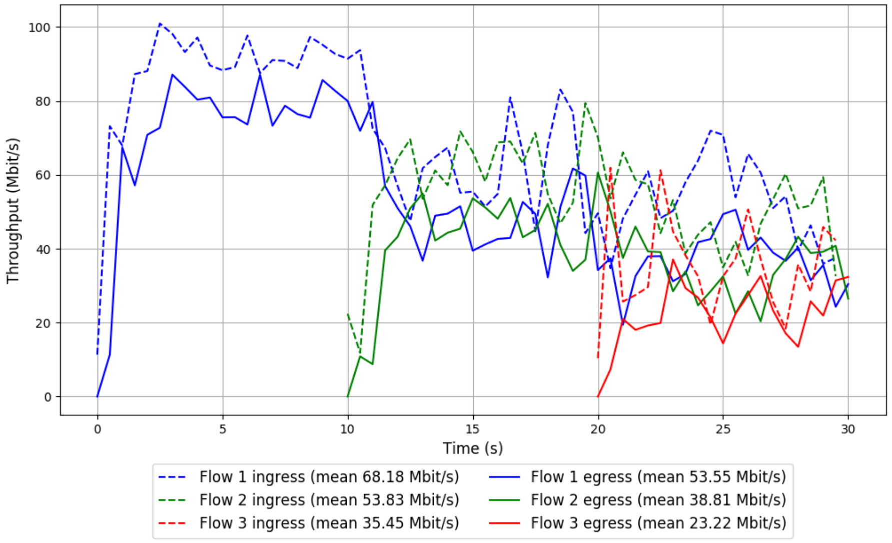


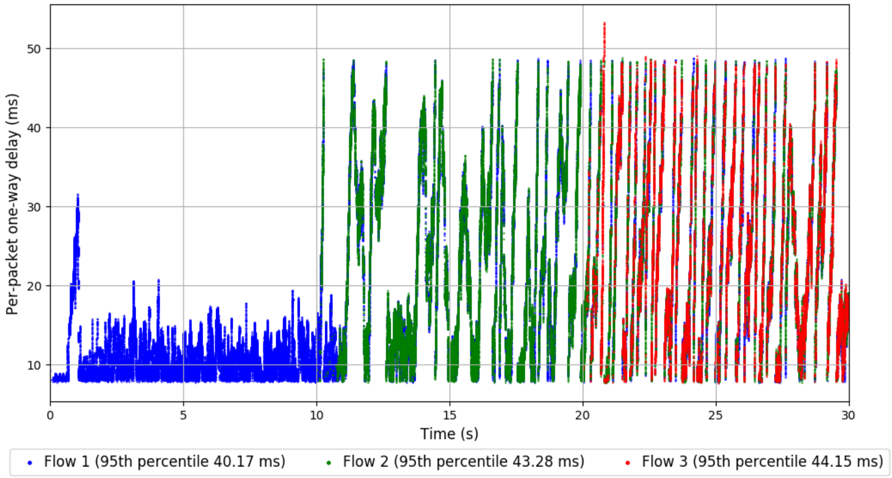
```
Run 6: Statistics of FillP

Start at: 2018-05-30 17:29:57
End at: 2018-05-30 17:30:27
Local clock offset: 1.365 ms
Remote clock offset: -3.626 ms

# Below is generated by plot.py at 2018-05-30 19:05:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.12 Mbit/s
95th percentile per-packet one-way delay: 41.961 ms
Loss rate: 24.74%
-- Flow 1:
Average throughput: 53.55 Mbit/s
95th percentile per-packet one-way delay: 40.166 ms
Loss rate: 21.43%
-- Flow 2:
Average throughput: 38.81 Mbit/s
95th percentile per-packet one-way delay: 43.277 ms
Loss rate: 27.86%
-- Flow 3:
Average throughput: 23.22 Mbit/s
95th percentile per-packet one-way delay: 44.148 ms
Loss rate: 34.45%
```

Run 6: Report of FillP — Data Link



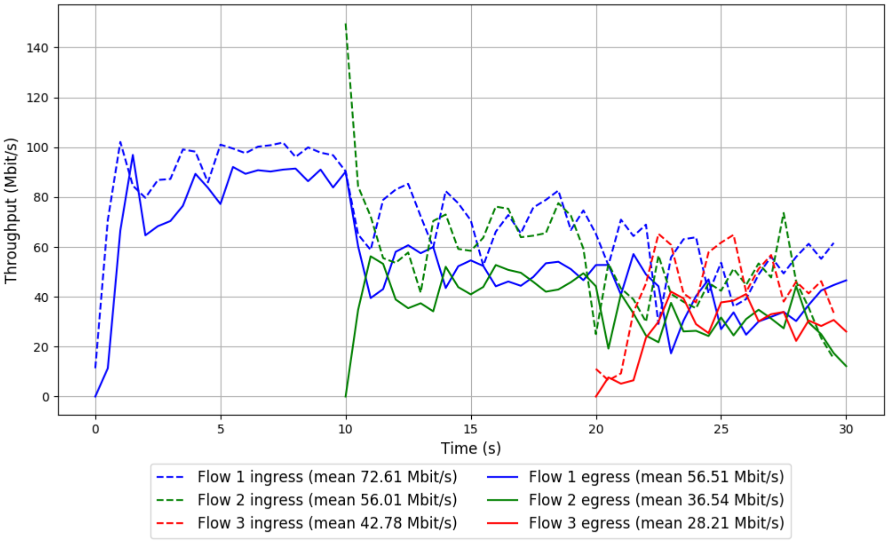


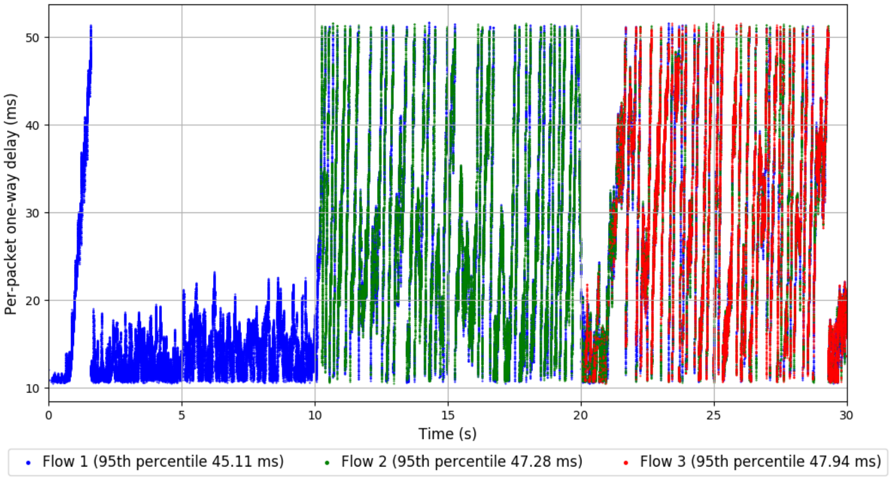
```
Run 7: Statistics of FillP

Start at: 2018-05-30 17:48:58
End at: 2018-05-30 17:49:28
Local clock offset: -1.859 ms
Remote clock offset: 1.318 ms

# Below is generated by plot.py at 2018-05-30 19:05:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.21 Mbit/s
95th percentile per-packet one-way delay: 46.273 ms
Loss rate: 27.32%
-- Flow 1:
Average throughput: 56.51 Mbit/s
95th percentile per-packet one-way delay: 45.112 ms
Loss rate: 22.18%
-- Flow 2:
Average throughput: 36.54 Mbit/s
95th percentile per-packet one-way delay: 47.284 ms
Loss rate: 34.77%
-- Flow 3:
Average throughput: 28.21 Mbit/s
95th percentile per-packet one-way delay: 47.937 ms
Loss rate: 34.06%
```

Run 7: Report of FillP — Data Link



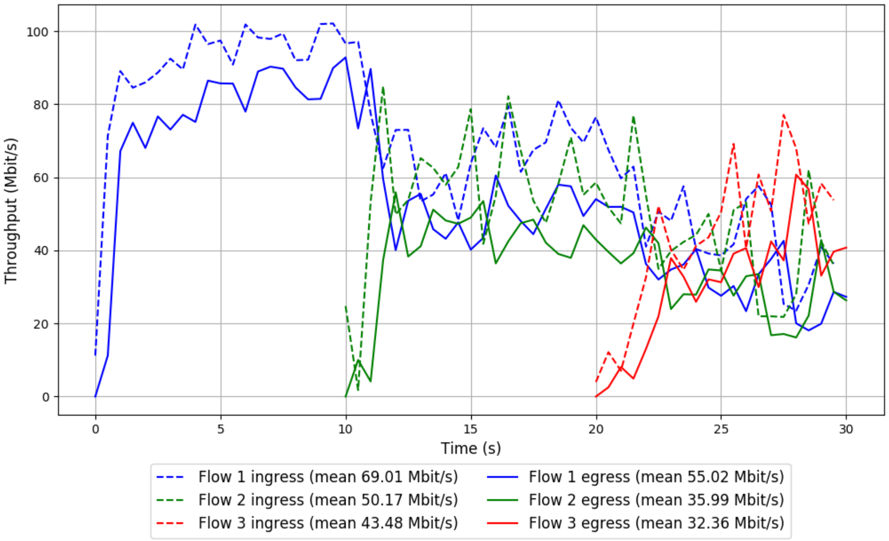


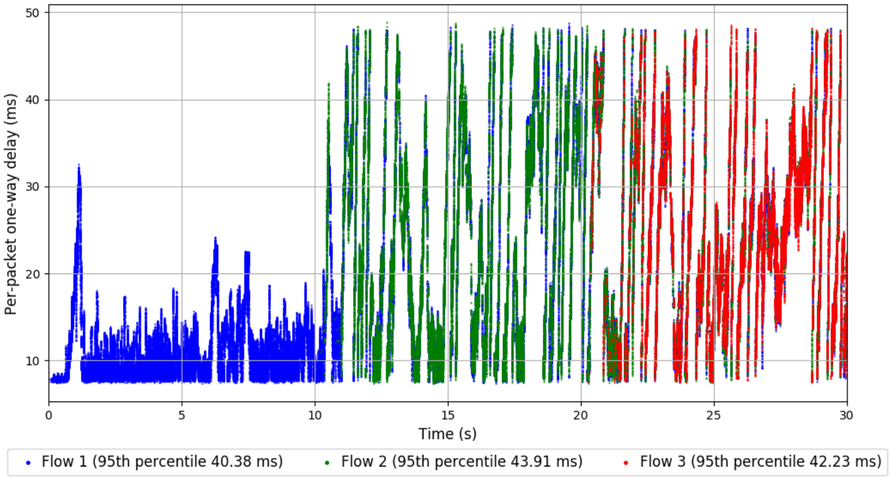
```
Run 8: Statistics of FillP

Start at: 2018-05-30 18:07:43
End at: 2018-05-30 18:08:13
Local clock offset: 1.019 ms
Remote clock offset: -0.638 ms

# Below is generated by plot.py at 2018-05-30 19:05:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.48 Mbit/s
95th percentile per-packet one-way delay: 42.202 ms
Loss rate: 23.35%
-- Flow 1:
Average throughput: 55.02 Mbit/s
95th percentile per-packet one-way delay: 40.376 ms
Loss rate: 20.24%
-- Flow 2:
Average throughput: 35.99 Mbit/s
95th percentile per-packet one-way delay: 43.912 ms
Loss rate: 28.22%
-- Flow 3:
Average throughput: 32.36 Mbit/s
95th percentile per-packet one-way delay: 42.235 ms
Loss rate: 26.97%
```

Run 8: Report of FillP — Data Link



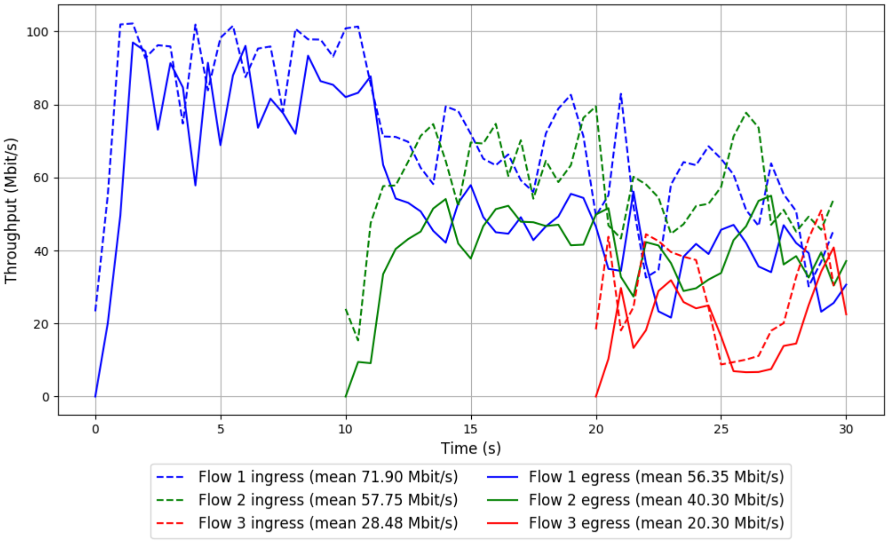


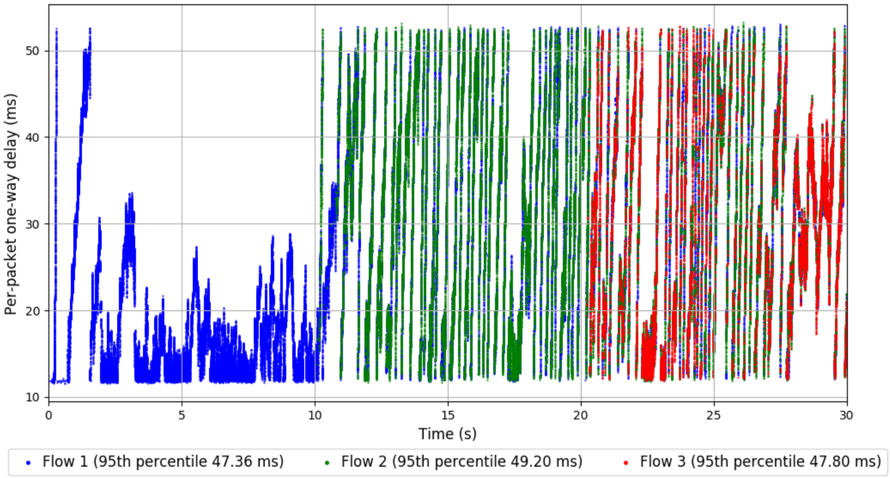
```
Run 9: Statistics of FillP

Start at: 2018-05-30 18:26:47
End at: 2018-05-30 18:27:17
Local clock offset: -3.711 ms
Remote clock offset: -0.48 ms

# Below is generated by plot.py at 2018-05-30 19:06:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.90 Mbit/s
95th percentile per-packet one-way delay: 48.111 ms
Loss rate: 24.93%
-- Flow 1:
Average throughput: 56.35 Mbit/s
95th percentile per-packet one-way delay: 47.363 ms
Loss rate: 21.60%
-- Flow 2:
Average throughput: 40.30 Mbit/s
95th percentile per-packet one-way delay: 49.196 ms
Loss rate: 30.18%
-- Flow 3:
Average throughput: 20.30 Mbit/s
95th percentile per-packet one-way delay: 47.802 ms
Loss rate: 28.90%
```

Run 9: Report of FillP — Data Link



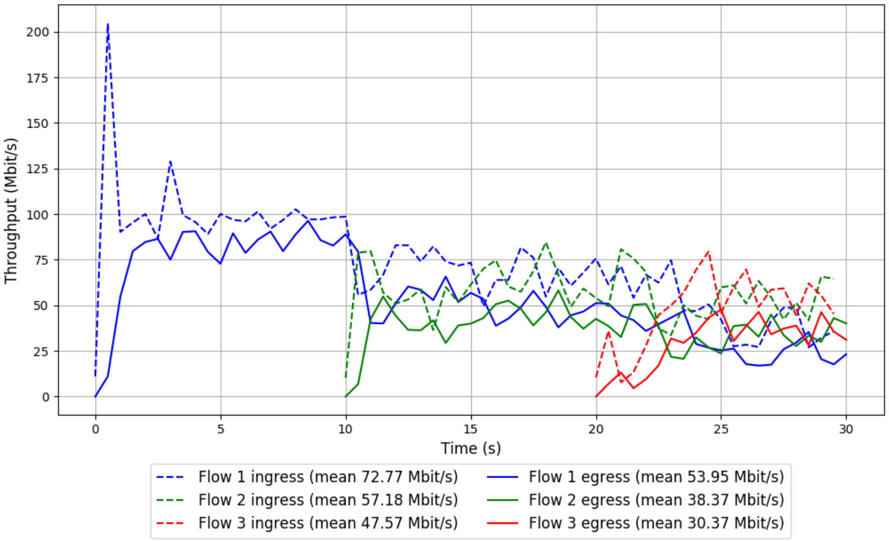


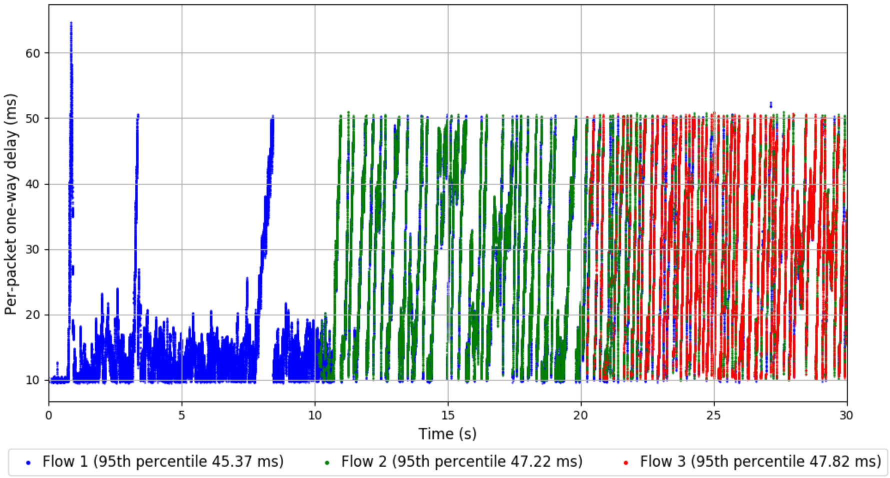
```
Run 10: Statistics of FillP

Start at: 2018-05-30 18:45:18
End at: 2018-05-30 18:45:48
Local clock offset: -2.31 ms
Remote clock offset: -6.674 ms

# Below is generated by plot.py at 2018-05-30 19:06:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.59 Mbit/s
95th percentile per-packet one-way delay: 46.466 ms
Loss rate: 29.19%
-- Flow 1:
Average throughput: 53.95 Mbit/s
95th percentile per-packet one-way delay: 45.367 ms
Loss rate: 25.81%
-- Flow 2:
Average throughput: 38.37 Mbit/s
95th percentile per-packet one-way delay: 47.217 ms
Loss rate: 32.82%
-- Flow 3:
Average throughput: 30.37 Mbit/s
95th percentile per-packet one-way delay: 47.823 ms
Loss rate: 36.05%
```

Run 10: Report of FillP — Data Link



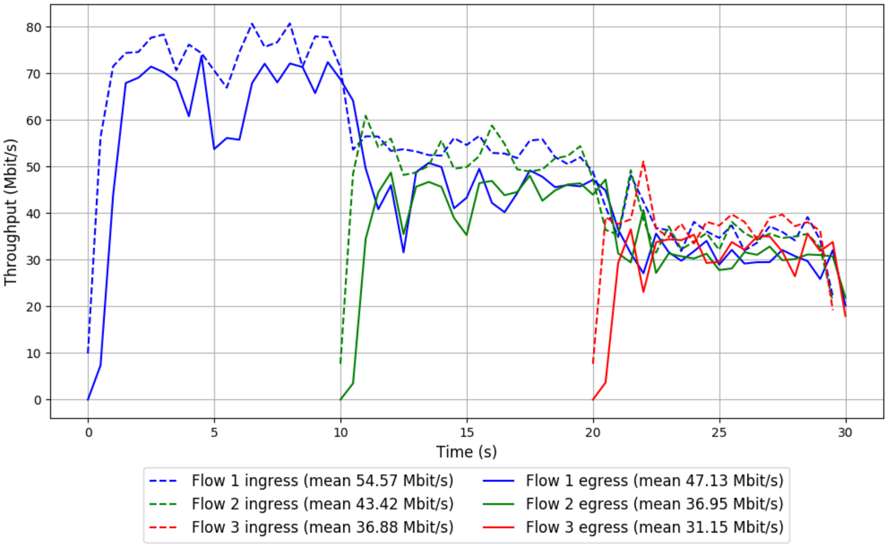


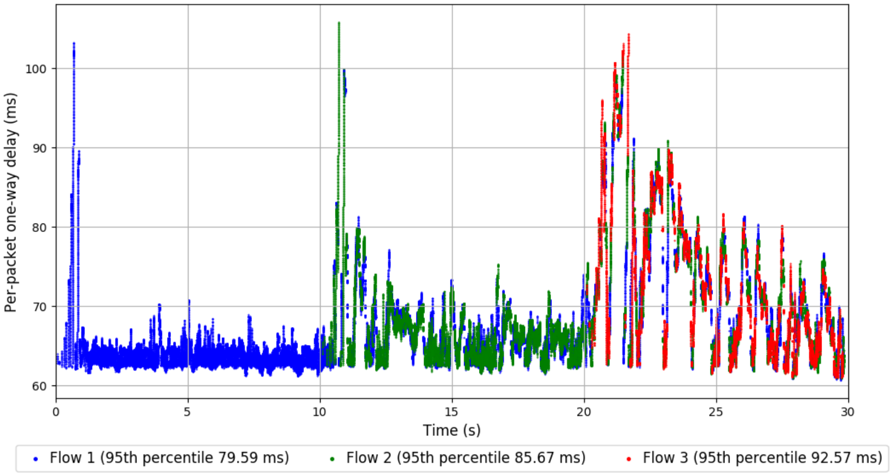
```
Run 1: Statistics of Indigo

Start at: 2018-05-30 16:03:45
End at: 2018-05-30 16:04:15
Local clock offset: -0.89 ms
Remote clock offset: 4.864 ms

# Below is generated by plot.py at 2018-05-30 19:06:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.72 Mbit/s
95th percentile per-packet one-way delay: 84.768 ms
Loss rate: 14.27%
-- Flow 1:
Average throughput: 47.13 Mbit/s
95th percentile per-packet one-way delay: 79.594 ms
Loss rate: 13.64%
-- Flow 2:
Average throughput: 36.95 Mbit/s
95th percentile per-packet one-way delay: 85.669 ms
Loss rate: 14.89%
-- Flow 3:
Average throughput: 31.15 Mbit/s
95th percentile per-packet one-way delay: 92.566 ms
Loss rate: 15.62%
```

Run 1: Report of Indigo — Data Link



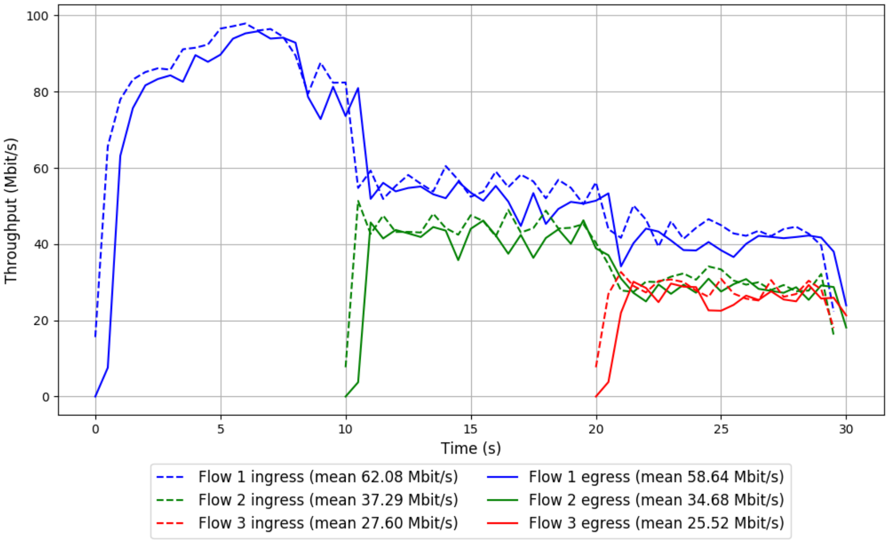


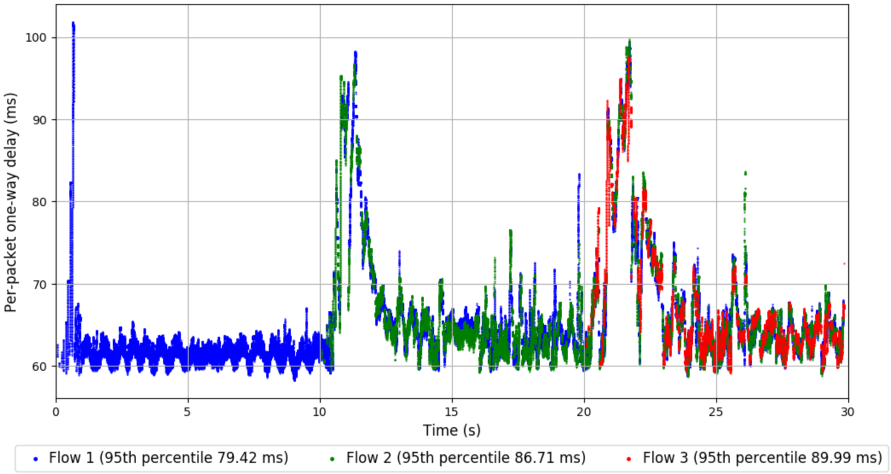
```
Run 2: Statistics of Indigo

Start at: 2018-05-30 16:23:27
End at: 2018-05-30 16:23:57
Local clock offset: -1.731 ms
Remote clock offset: -9.845 ms

# Below is generated by plot.py at 2018-05-30 19:06:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.90 Mbit/s
95th percentile per-packet one-way delay: 83.816 ms
Loss rate: 6.08%
-- Flow 1:
Average throughput: 58.64 Mbit/s
95th percentile per-packet one-way delay: 79.421 ms
Loss rate: 5.51%
-- Flow 2:
Average throughput: 34.68 Mbit/s
95th percentile per-packet one-way delay: 86.711 ms
Loss rate: 6.99%
-- Flow 3:
Average throughput: 25.52 Mbit/s
95th percentile per-packet one-way delay: 89.987 ms
Loss rate: 7.45%
```

Run 2: Report of Indigo — Data Link



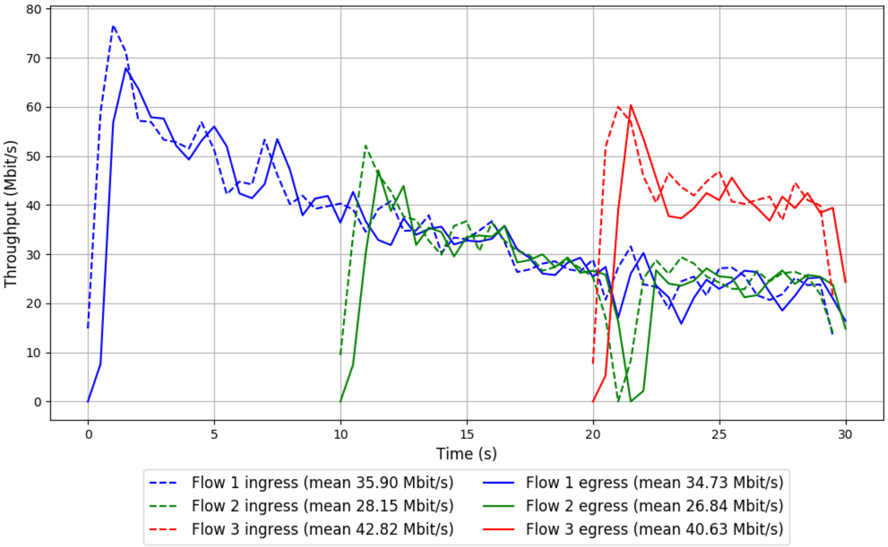


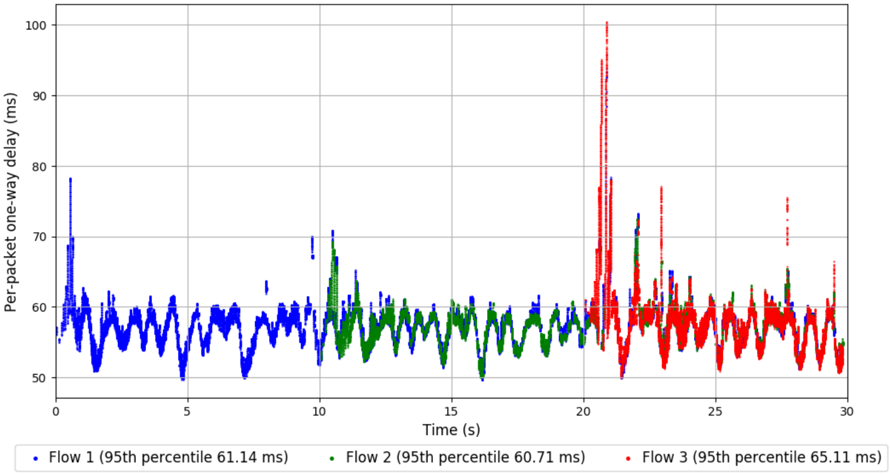
```
Run 3: Statistics of Indigo

Start at: 2018-05-30 16:42:36
End at: 2018-05-30 16:43:06
Local clock offset: 2.713 ms
Remote clock offset: -11.123 ms

# Below is generated by plot.py at 2018-05-30 19:06:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.77 Mbit/s
95th percentile per-packet one-way delay: 61.562 ms
Loss rate: 4.05%
-- Flow 1:
Average throughput: 34.73 Mbit/s
95th percentile per-packet one-way delay: 61.142 ms
Loss rate: 3.29%
-- Flow 2:
Average throughput: 26.84 Mbit/s
95th percentile per-packet one-way delay: 60.709 ms
Loss rate: 4.65%
-- Flow 3:
Average throughput: 40.63 Mbit/s
95th percentile per-packet one-way delay: 65.112 ms
Loss rate: 5.23%
```

Run 3: Report of Indigo — Data Link



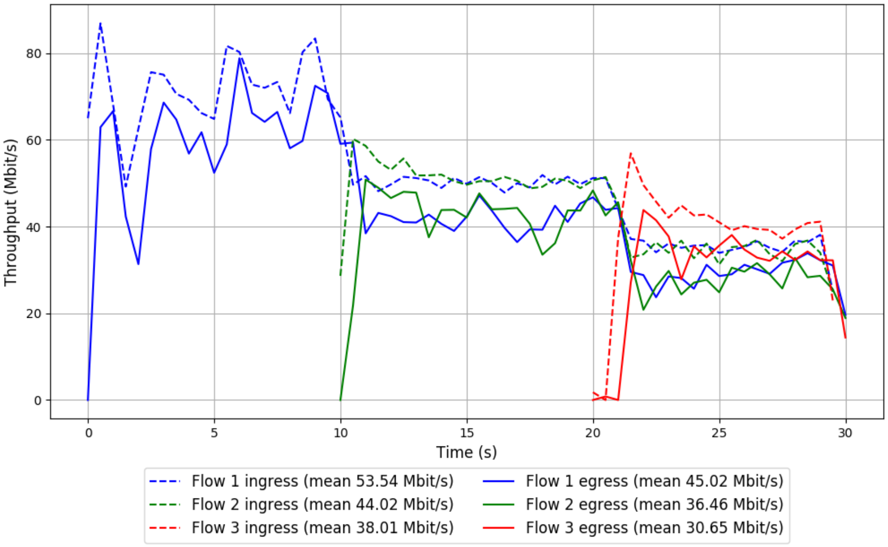


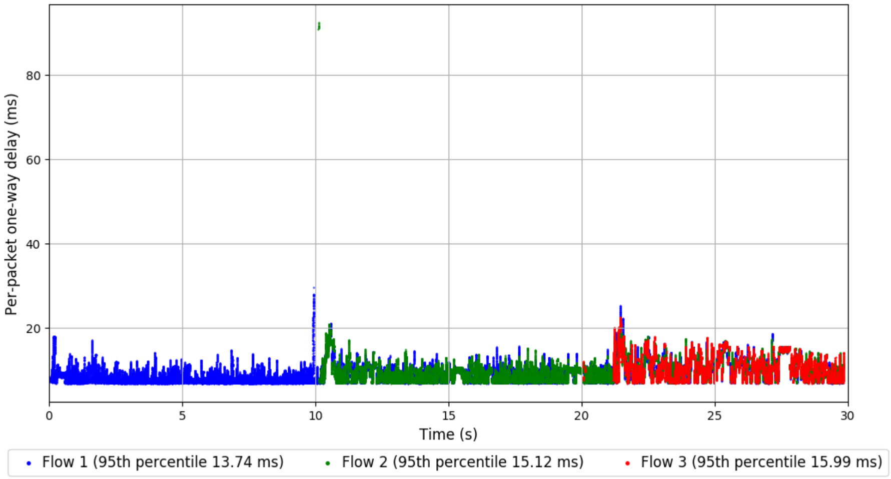
```
Run 4: Statistics of Indigo

Start at: 2018-05-30 17:02:20
End at: 2018-05-30 17:02:50
Local clock offset: 2.215 ms
Remote clock offset: -15.731 ms

# Below is generated by plot.py at 2018-05-30 19:06:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.16 Mbit/s
95th percentile per-packet one-way delay: 15.001 ms
Loss rate: 16.85%
-- Flow 1:
Average throughput: 45.02 Mbit/s
95th percentile per-packet one-way delay: 13.740 ms
Loss rate: 15.91%
-- Flow 2:
Average throughput: 36.46 Mbit/s
95th percentile per-packet one-way delay: 15.116 ms
Loss rate: 17.50%
-- Flow 3:
Average throughput: 30.65 Mbit/s
95th percentile per-packet one-way delay: 15.991 ms
Loss rate: 19.33%
```

Run 4: Report of Indigo — Data Link



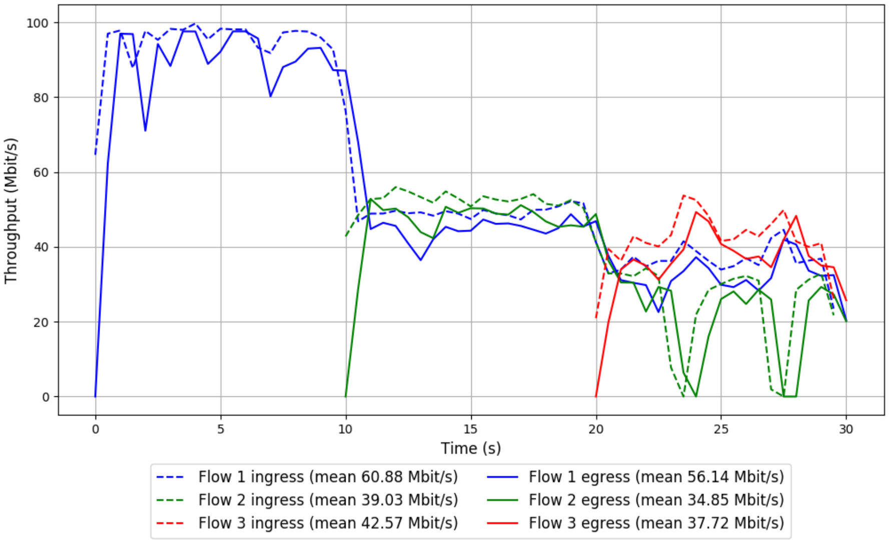


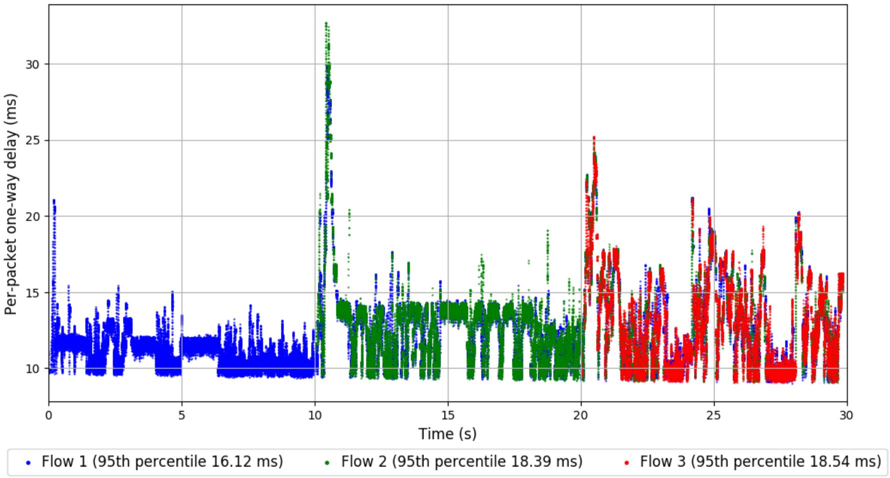
```
Run 5: Statistics of Indigo

Start at: 2018-05-30 17:21:24
End at: 2018-05-30 17:21:54
Local clock offset: -0.159 ms
Remote clock offset: -10.237 ms

# Below is generated by plot.py at 2018-05-30 19:06:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.67 Mbit/s
95th percentile per-packet one-way delay: 17.351 ms
Loss rate: 9.02%
-- Flow 1:
Average throughput: 56.14 Mbit/s
95th percentile per-packet one-way delay: 16.116 ms
Loss rate: 7.77%
-- Flow 2:
Average throughput: 34.85 Mbit/s
95th percentile per-packet one-way delay: 18.393 ms
Loss rate: 10.67%
-- Flow 3:
Average throughput: 37.72 Mbit/s
95th percentile per-packet one-way delay: 18.543 ms
Loss rate: 11.35%
```

Run 5: Report of Indigo — Data Link



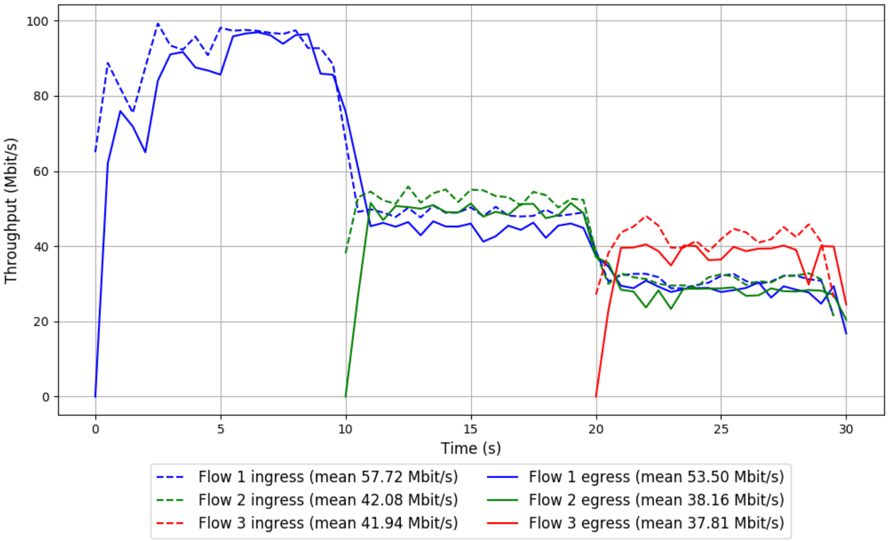


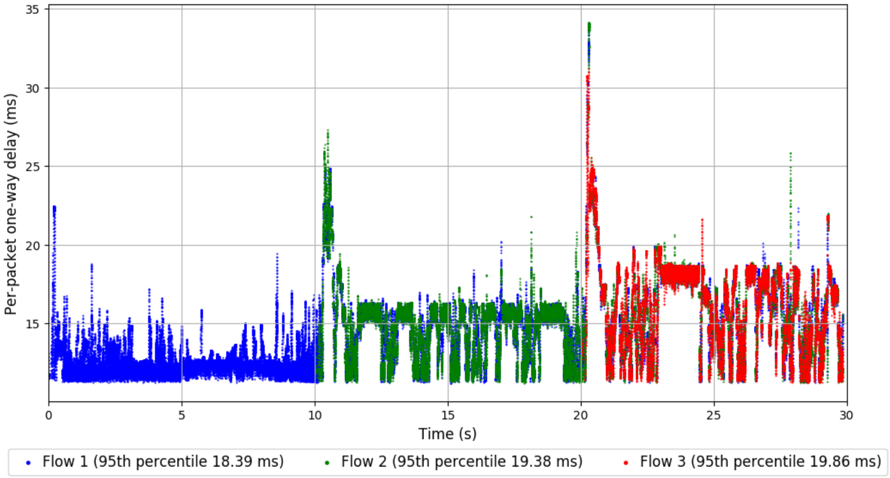
```
Run 6: Statistics of Indigo

Start at: 2018-05-30 17:40:47
End at: 2018-05-30 17:41:17
Local clock offset: -1.845 ms
Remote clock offset: 0.234 ms

# Below is generated by plot.py at 2018-05-30 19:06:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.23 Mbit/s
95th percentile per-packet one-way delay: 18.625 ms
Loss rate: 8.23%
-- Flow 1:
Average throughput: 53.50 Mbit/s
95th percentile per-packet one-way delay: 18.395 ms
Loss rate: 7.31%
-- Flow 2:
Average throughput: 38.16 Mbit/s
95th percentile per-packet one-way delay: 19.375 ms
Loss rate: 9.32%
-- Flow 3:
Average throughput: 37.81 Mbit/s
95th percentile per-packet one-way delay: 19.864 ms
Loss rate: 9.85%
```

Run 6: Report of Indigo — Data Link



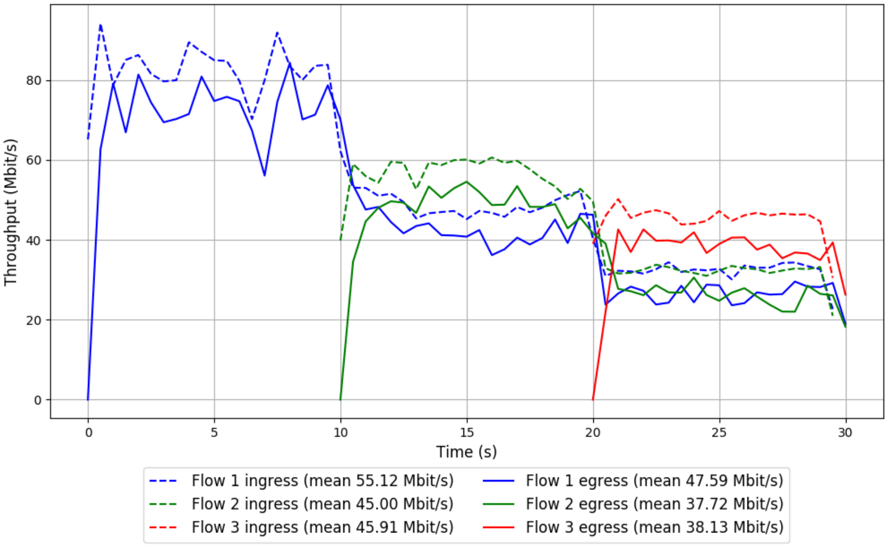


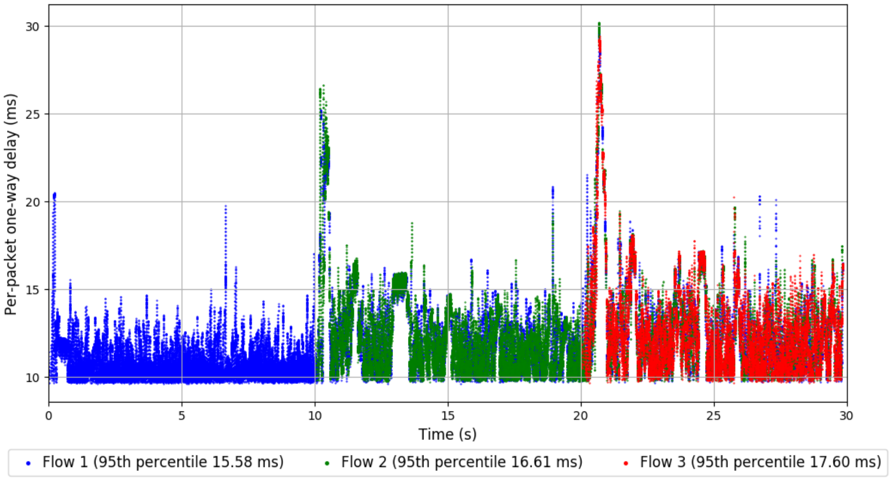
```
Run 7: Statistics of Indigo

Start at: 2018-05-30 17:59:31
End at: 2018-05-30 18:00:01
Local clock offset: -0.719 ms
Remote clock offset: -0.283 ms

# Below is generated by plot.py at 2018-05-30 19:07:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.13 Mbit/s
95th percentile per-packet one-way delay: 16.333 ms
Loss rate: 14.88%
-- Flow 1:
Average throughput: 47.59 Mbit/s
95th percentile per-packet one-way delay: 15.580 ms
Loss rate: 13.65%
-- Flow 2:
Average throughput: 37.72 Mbit/s
95th percentile per-packet one-way delay: 16.614 ms
Loss rate: 16.15%
-- Flow 3:
Average throughput: 38.13 Mbit/s
95th percentile per-packet one-way delay: 17.597 ms
Loss rate: 16.89%
```

Run 7: Report of Indigo — Data Link



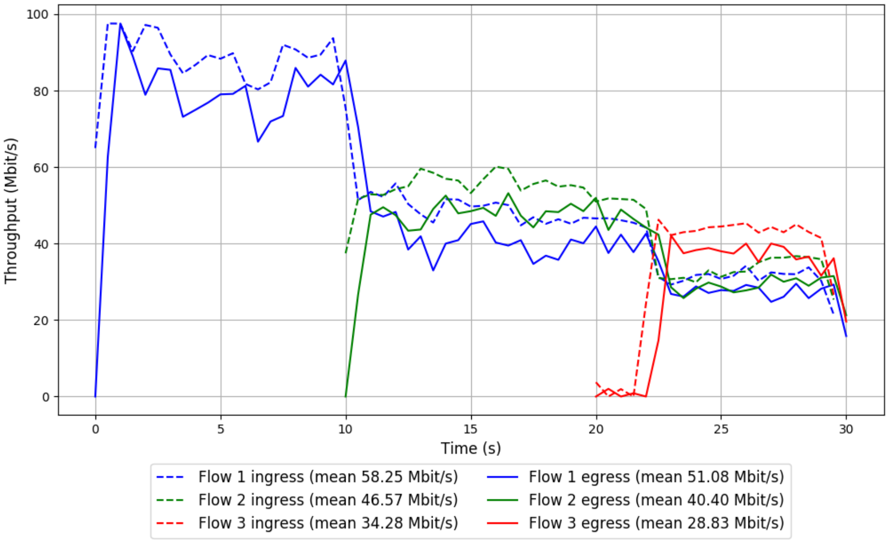


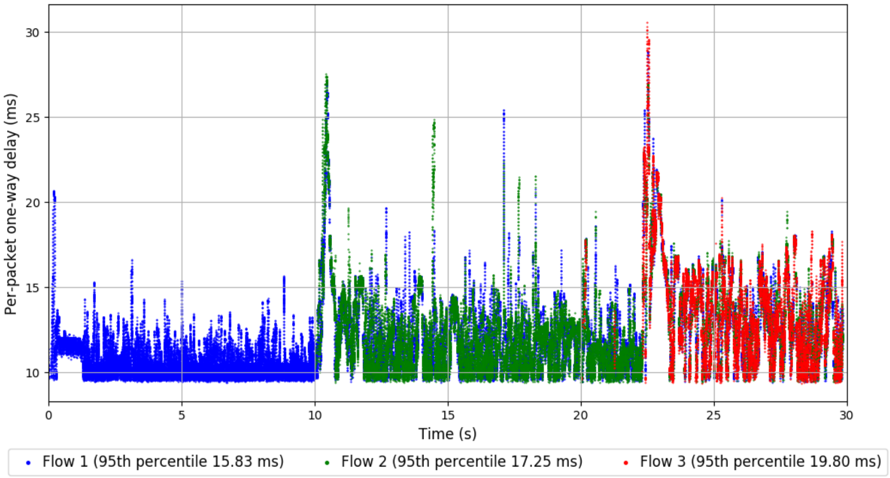
```
Run 8: Statistics of Indigo

Start at: 2018-05-30 18:18:10
End at: 2018-05-30 18:18:40
Local clock offset: -1.818 ms
Remote clock offset: -0.221 ms

# Below is generated by plot.py at 2018-05-30 19:07:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.34 Mbit/s
95th percentile per-packet one-way delay: 16.780 ms
Loss rate: 12.99%
-- Flow 1:
Average throughput: 51.08 Mbit/s
95th percentile per-packet one-way delay: 15.833 ms
Loss rate: 12.31%
-- Flow 2:
Average throughput: 40.40 Mbit/s
95th percentile per-packet one-way delay: 17.251 ms
Loss rate: 13.25%
-- Flow 3:
Average throughput: 28.83 Mbit/s
95th percentile per-packet one-way delay: 19.798 ms
Loss rate: 15.84%
```

Run 8: Report of Indigo — Data Link



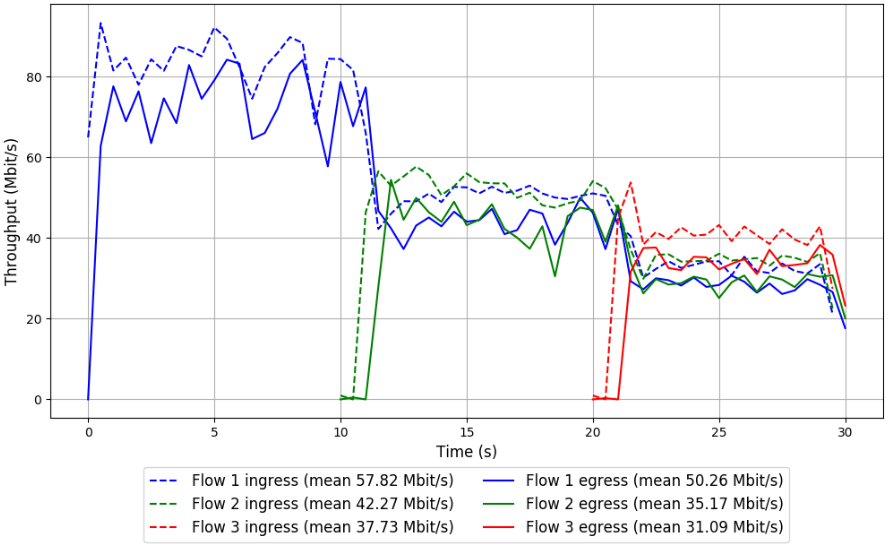


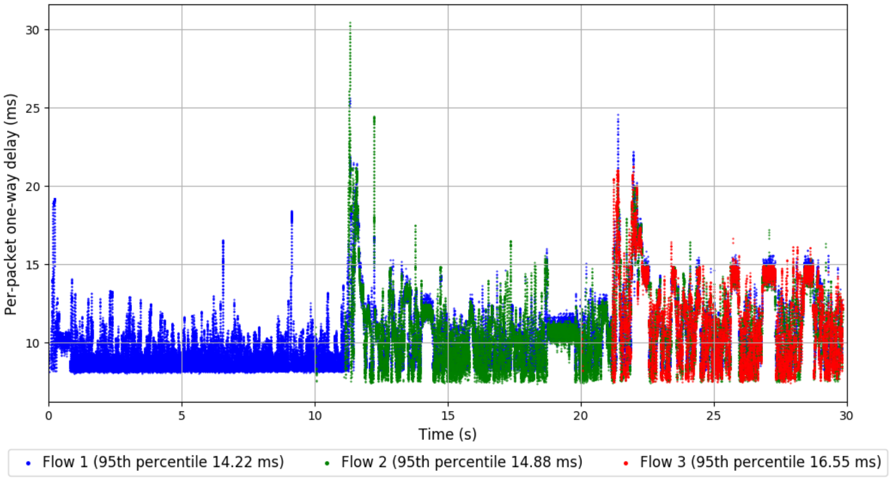
```
Run 9: Statistics of Indigo

Start at: 2018-05-30 18:37:07
End at: 2018-05-30 18:37:37
Local clock offset: -0.365 ms
Remote clock offset: -5.369 ms

# Below is generated by plot.py at 2018-05-30 19:07:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.80 Mbit/s
95th percentile per-packet one-way delay: 14.691 ms
Loss rate: 14.69%
-- Flow 1:
Average throughput: 50.26 Mbit/s
95th percentile per-packet one-way delay: 14.217 ms
Loss rate: 13.06%
-- Flow 2:
Average throughput: 35.17 Mbit/s
95th percentile per-packet one-way delay: 14.883 ms
Loss rate: 16.77%
-- Flow 3:
Average throughput: 31.09 Mbit/s
95th percentile per-packet one-way delay: 16.553 ms
Loss rate: 17.57%
```

Run 9: Report of Indigo — Data Link



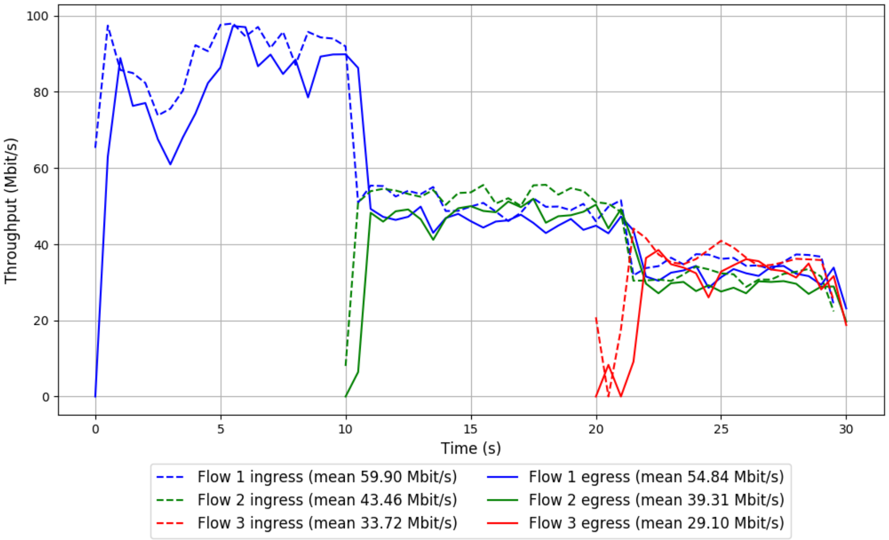


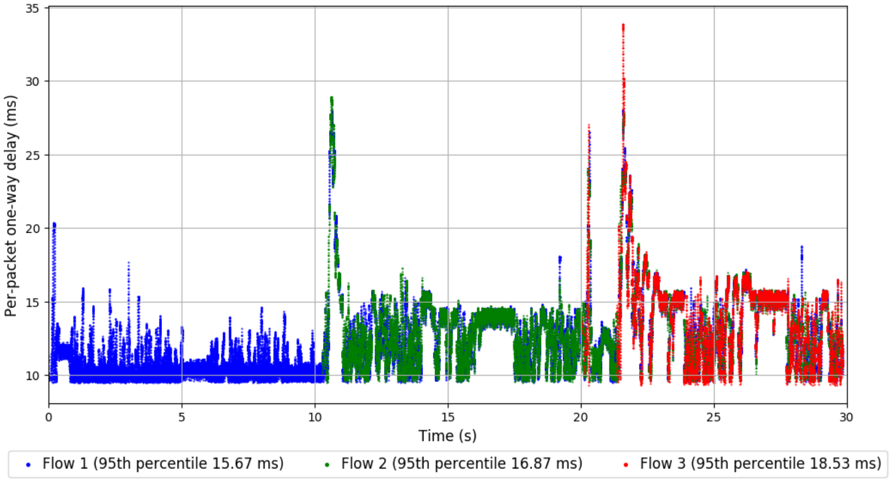
```
Run 10: Statistics of Indigo

Start at: 2018-05-30 18:55:38
End at: 2018-05-30 18:56:08
Local clock offset: -2.67 ms
Remote clock offset: -8.022 ms

# Below is generated by plot.py at 2018-05-30 19:07:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.14 Mbit/s
95th percentile per-packet one-way delay: 16.601 ms
Loss rate: 9.35%
-- Flow 1:
Average throughput: 54.84 Mbit/s
95th percentile per-packet one-way delay: 15.667 ms
Loss rate: 8.46%
-- Flow 2:
Average throughput: 39.31 Mbit/s
95th percentile per-packet one-way delay: 16.873 ms
Loss rate: 9.54%
-- Flow 3:
Average throughput: 29.10 Mbit/s
95th percentile per-packet one-way delay: 18.527 ms
Loss rate: 13.73%
```

Run 10: Report of Indigo — Data Link



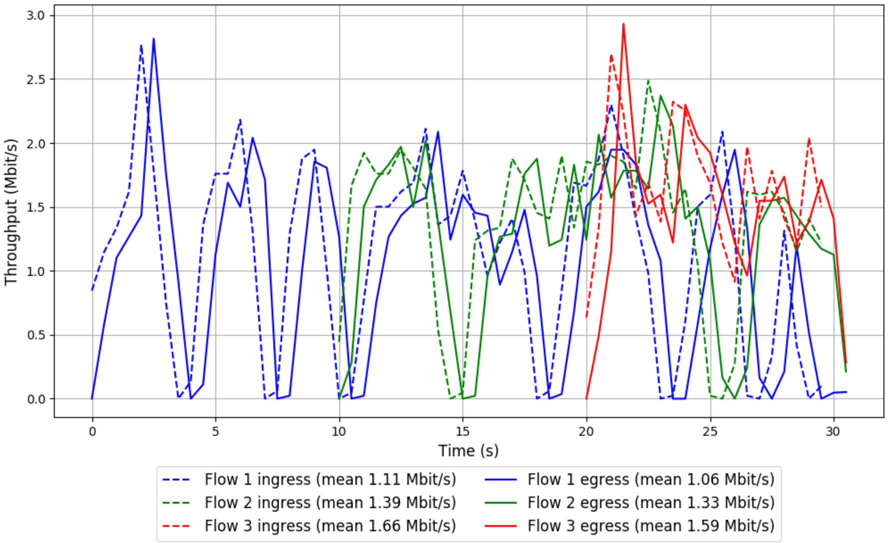


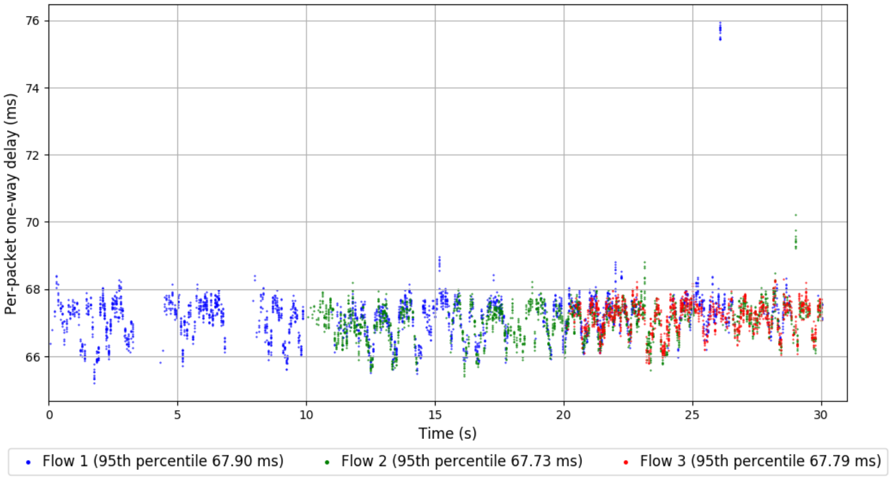
```
Run 1: Statistics of LEDBAT

Start at: 2018-05-30 15:56:52
End at: 2018-05-30 15:57:22
Local clock offset: -1.048 ms
Remote clock offset: 8.567 ms

# Below is generated by plot.py at 2018-05-30 19:07:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.47 Mbit/s
95th percentile per-packet one-way delay: 67.827 ms
Loss rate: 4.27%
-- Flow 1:
Average throughput: 1.06 Mbit/s
95th percentile per-packet one-way delay: 67.898 ms
Loss rate: 4.54%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 67.726 ms
Loss rate: 4.09%
-- Flow 3:
Average throughput: 1.59 Mbit/s
95th percentile per-packet one-way delay: 67.789 ms
Loss rate: 4.05%
```

Run 1: Report of LEDBAT — Data Link



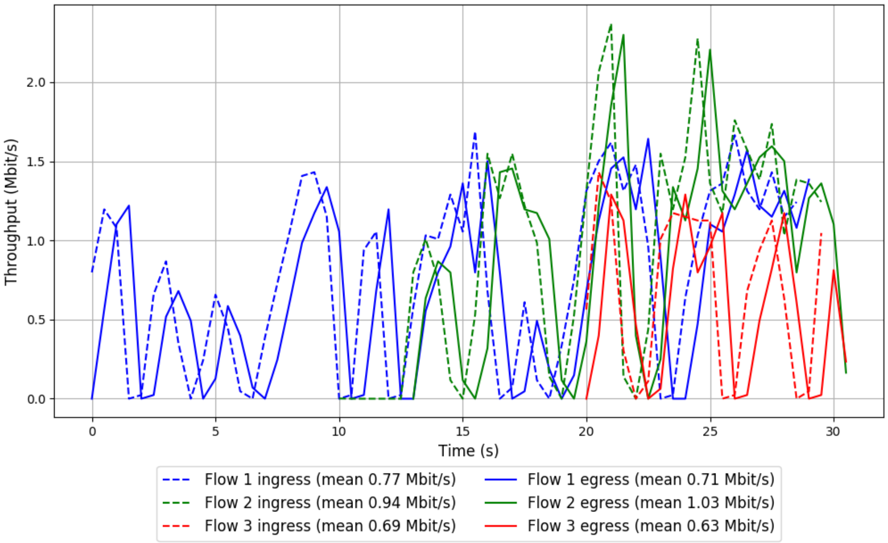


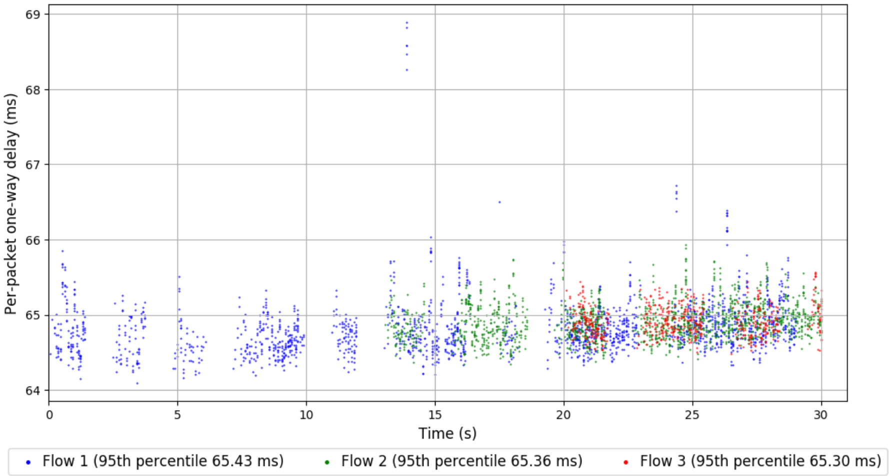
```
Run 2: Statistics of LEDBAT

Start at: 2018-05-30 16:16:26
End at: 2018-05-30 16:16:56
Local clock offset: -2.245 ms
Remote clock offset: -5.348 ms

# Below is generated by plot.py at 2018-05-30 19:07:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: 65.381 ms
Loss rate: 7.45%
-- Flow 1:
Average throughput: 0.71 Mbit/s
95th percentile per-packet one-way delay: 65.433 ms
Loss rate: 7.78%
-- Flow 2:
Average throughput: 1.03 Mbit/s
95th percentile per-packet one-way delay: 65.362 ms
Loss rate: 6.73%
-- Flow 3:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 65.298 ms
Loss rate: 8.37%
```

Run 2: Report of LEDBAT — Data Link



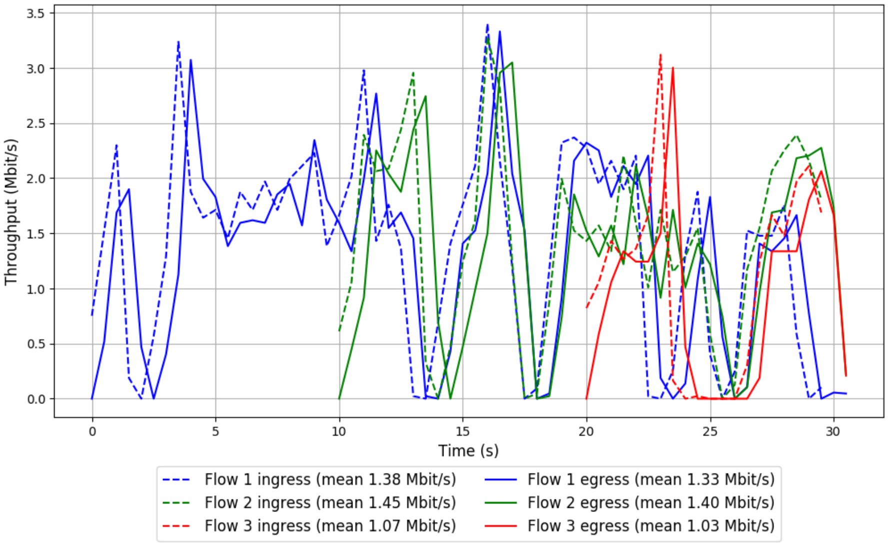


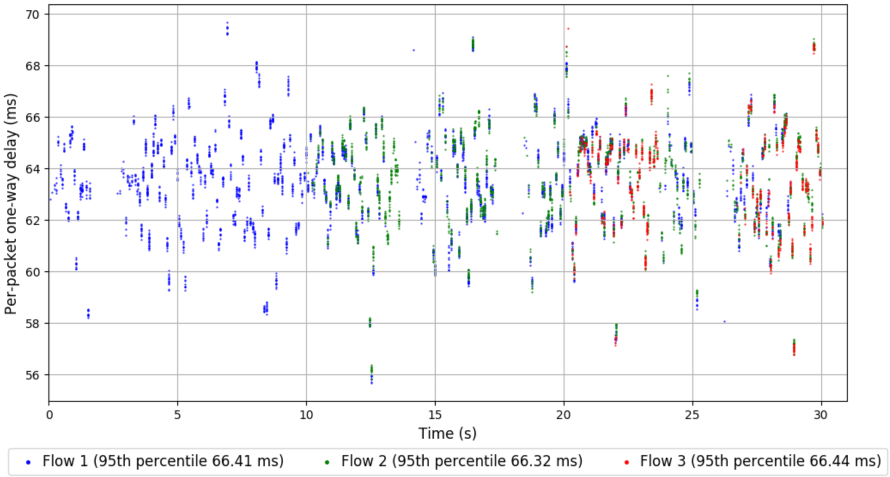
```
Run 3: Statistics of LEDBAT

Start at: 2018-05-30 16:35:31
End at: 2018-05-30 16:36:01
Local clock offset: -2.074 ms
Remote clock offset: -11.644 ms

# Below is generated by plot.py at 2018-05-30 19:07:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.61 Mbit/s
95th percentile per-packet one-way delay: 66.381 ms
Loss rate: 3.81%
-- Flow 1:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 66.407 ms
Loss rate: 3.76%
-- Flow 2:
Average throughput: 1.40 Mbit/s
95th percentile per-packet one-way delay: 66.319 ms
Loss rate: 3.60%
-- Flow 3:
Average throughput: 1.03 Mbit/s
95th percentile per-packet one-way delay: 66.437 ms
Loss rate: 4.61%
```

Run 3: Report of LEDBAT — Data Link



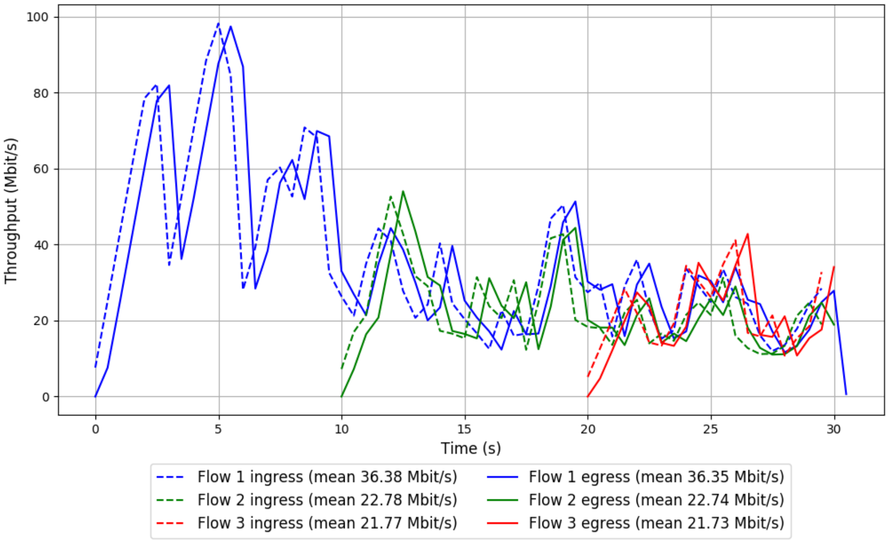


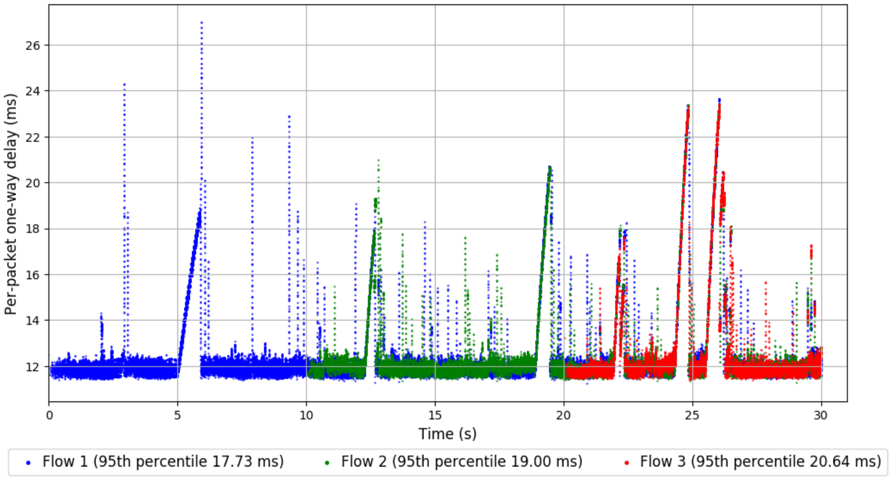
```
Run 4: Statistics of LEDBAT

Start at: 2018-05-30 16:55:27
End at: 2018-05-30 16:55:57
Local clock offset: -1.932 ms
Remote clock offset: -14.57 ms

# Below is generated by plot.py at 2018-05-30 19:07:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.70 Mbit/s
95th percentile per-packet one-way delay: 18.463 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 36.35 Mbit/s
95th percentile per-packet one-way delay: 17.734 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 22.74 Mbit/s
95th percentile per-packet one-way delay: 18.995 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 21.73 Mbit/s
95th percentile per-packet one-way delay: 20.640 ms
Loss rate: 0.22%
```

Run 4: Report of LEDBAT — Data Link



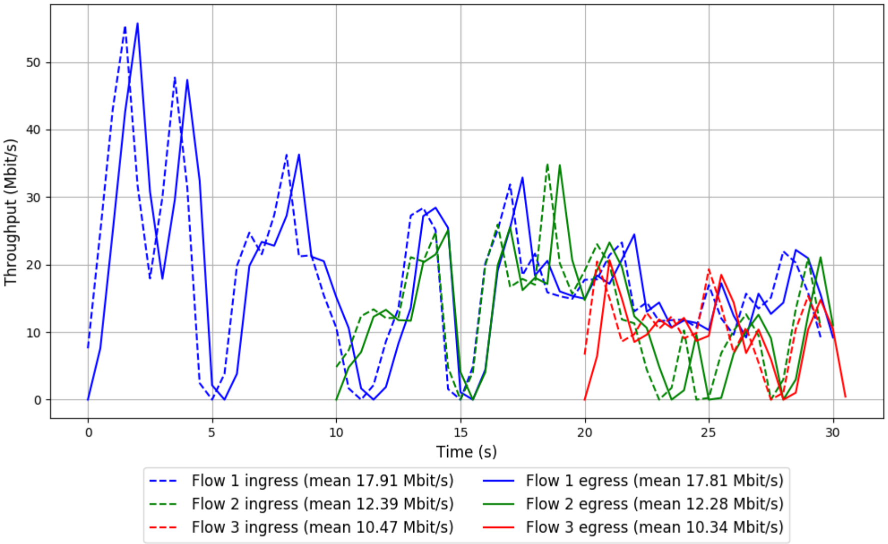


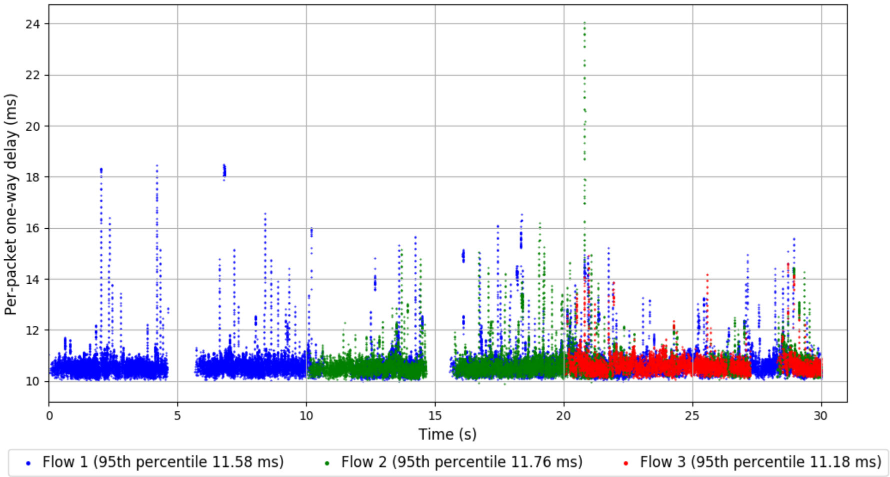
```
Run 5: Statistics of LEDBAT

Start at: 2018-05-30 17:14:10
End at: 2018-05-30 17:14:40
Local clock offset: -0.404 ms
Remote clock offset: -16.51 ms

# Below is generated by plot.py at 2018-05-30 19:07:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 29.41 Mbit/s
95th percentile per-packet one-way delay: 11.574 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 17.81 Mbit/s
95th percentile per-packet one-way delay: 11.579 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 12.28 Mbit/s
95th percentile per-packet one-way delay: 11.758 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 10.34 Mbit/s
95th percentile per-packet one-way delay: 11.179 ms
Loss rate: 1.30%
```

Run 5: Report of LEDBAT — Data Link



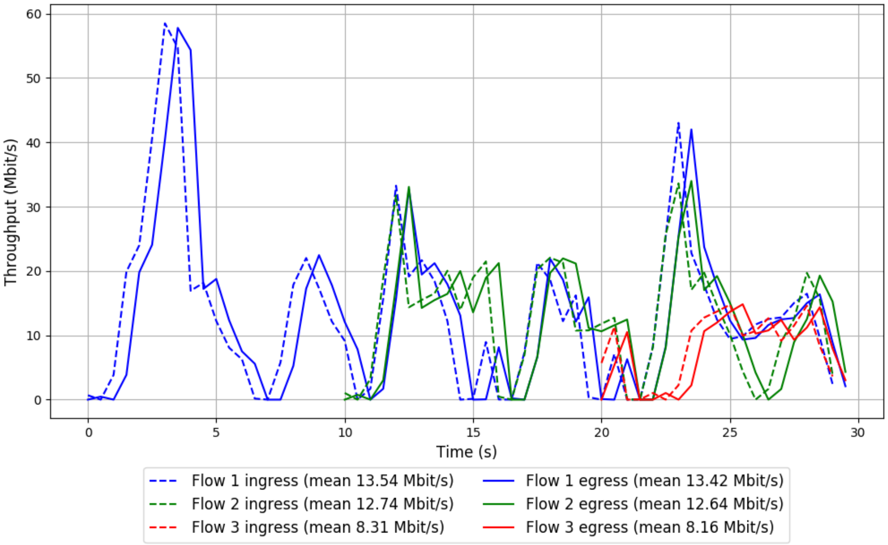


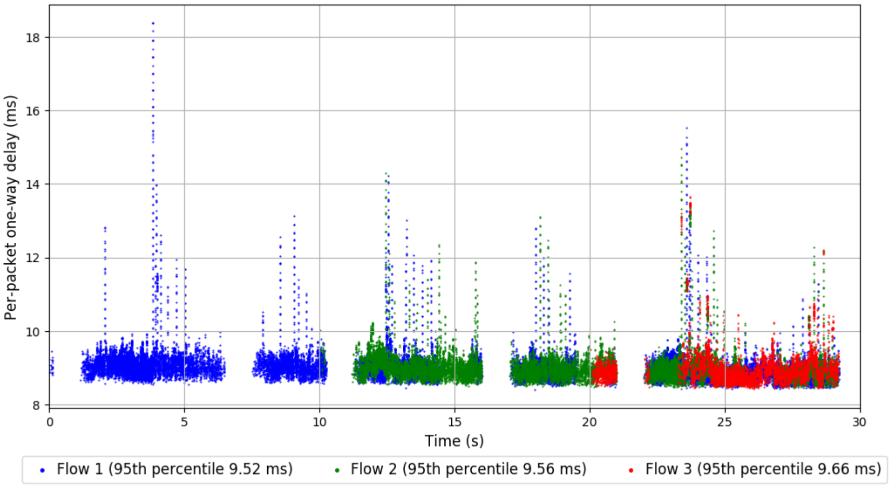
```
Run 6: Statistics of LEDBAT

Start at: 2018-05-30 17:33:52
End at: 2018-05-30 17:34:22
Local clock offset: 0.81 ms
Remote clock offset: -1.912 ms

# Below is generated by plot.py at 2018-05-30 19:07:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.27 Mbit/s
95th percentile per-packet one-way delay: 9.542 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 13.42 Mbit/s
95th percentile per-packet one-way delay: 9.517 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 12.64 Mbit/s
95th percentile per-packet one-way delay: 9.558 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 8.16 Mbit/s
95th percentile per-packet one-way delay: 9.664 ms
Loss rate: 2.16%
```

Run 6: Report of LEDBAT — Data Link



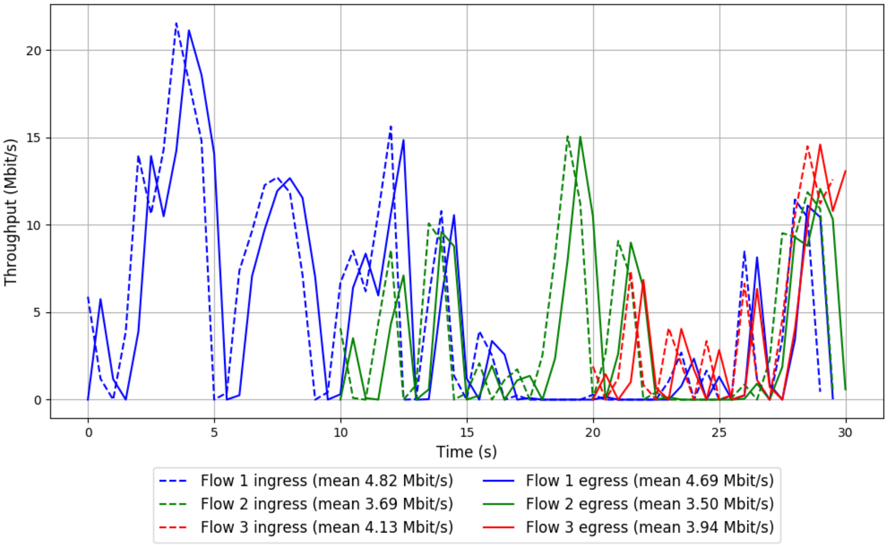


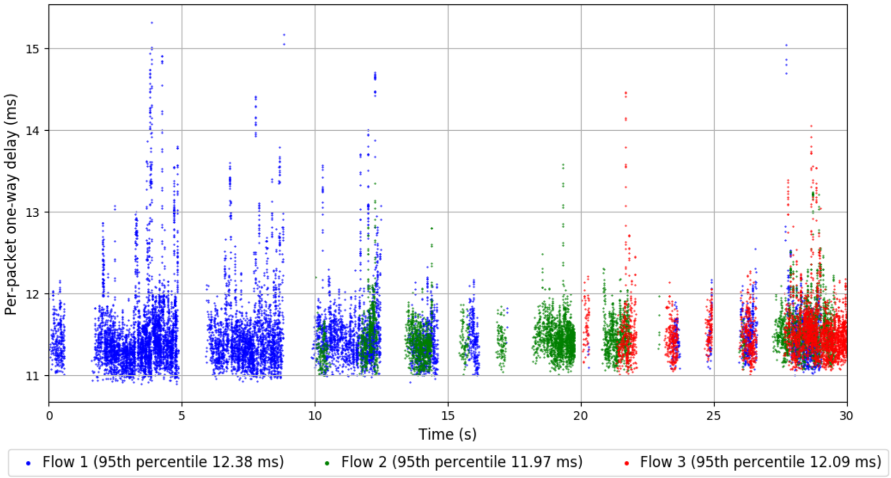
```
Run 7: Statistics of LEDBAT

Start at: 2018-05-30 17:52:34
End at: 2018-05-30 17:53:04
Local clock offset: -1.593 ms
Remote clock offset: 1.455 ms

# Below is generated by plot.py at 2018-05-30 19:07:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.13 Mbit/s
95th percentile per-packet one-way delay: 12.159 ms
Loss rate: 3.68%
-- Flow 1:
Average throughput: 4.69 Mbit/s
95th percentile per-packet one-way delay: 12.385 ms
Loss rate: 2.67%
-- Flow 2:
Average throughput: 3.50 Mbit/s
95th percentile per-packet one-way delay: 11.972 ms
Loss rate: 5.18%
-- Flow 3:
Average throughput: 3.94 Mbit/s
95th percentile per-packet one-way delay: 12.086 ms
Loss rate: 4.51%
```

Run 7: Report of LEDBAT — Data Link



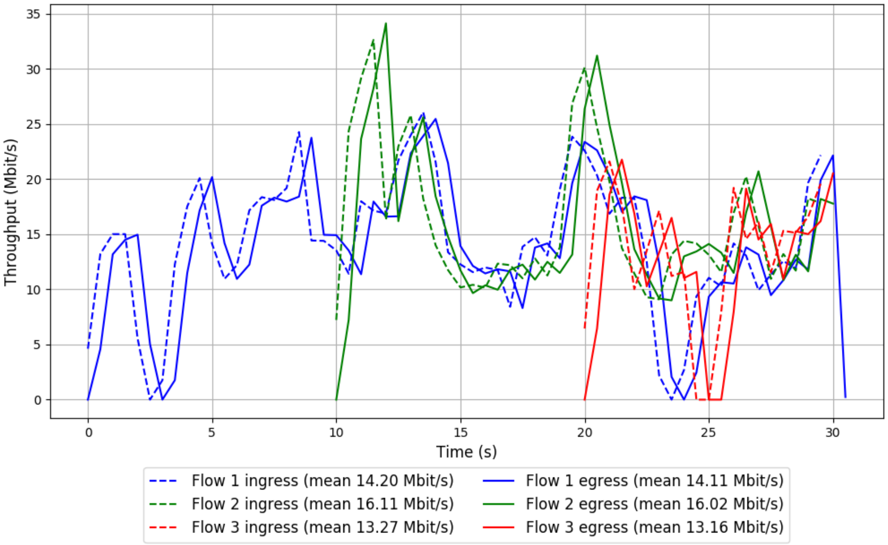


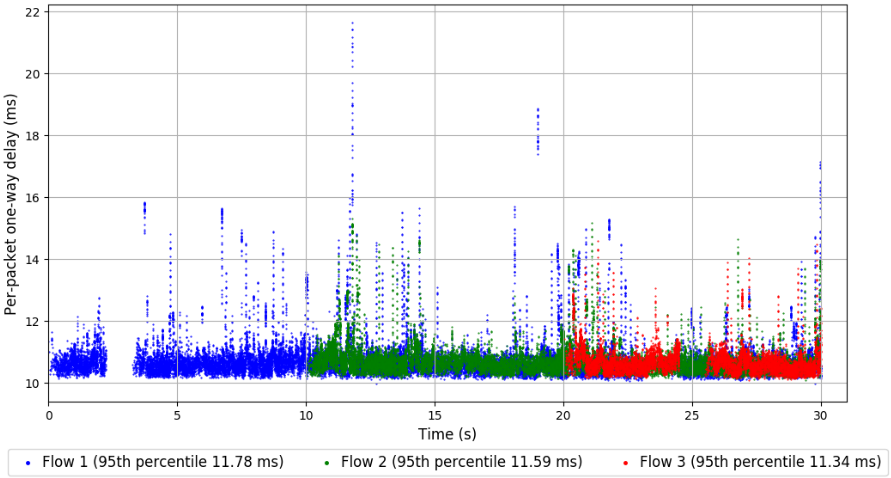
```
Run 8: Statistics of LEDBAT

Start at: 2018-05-30 18:11:21
End at: 2018-05-30 18:11:51
Local clock offset: -1.789 ms
Remote clock offset: -0.343 ms

# Below is generated by plot.py at 2018-05-30 19:07:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 29.14 Mbit/s
95th percentile per-packet one-way delay: 11.622 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 14.11 Mbit/s
95th percentile per-packet one-way delay: 11.775 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 16.02 Mbit/s
95th percentile per-packet one-way delay: 11.589 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 13.16 Mbit/s
95th percentile per-packet one-way delay: 11.344 ms
Loss rate: 0.82%
```

Run 8: Report of LEDBAT — Data Link



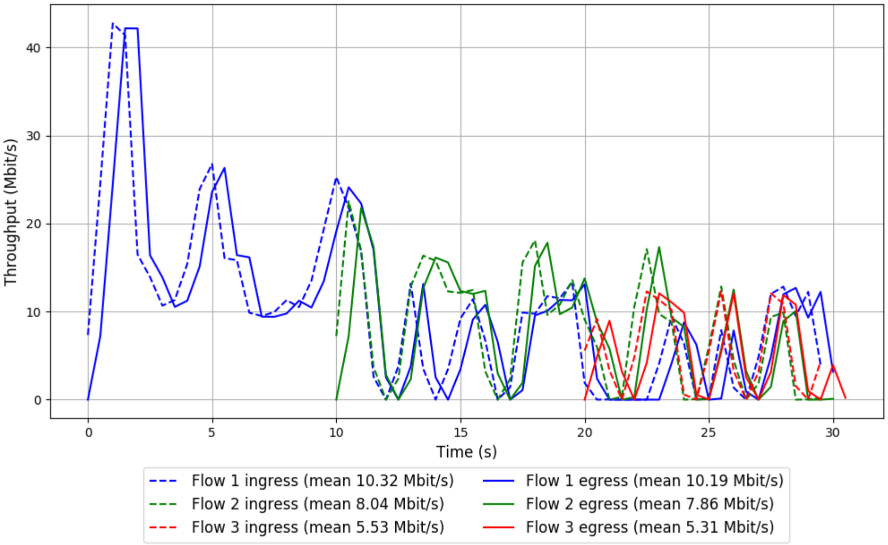


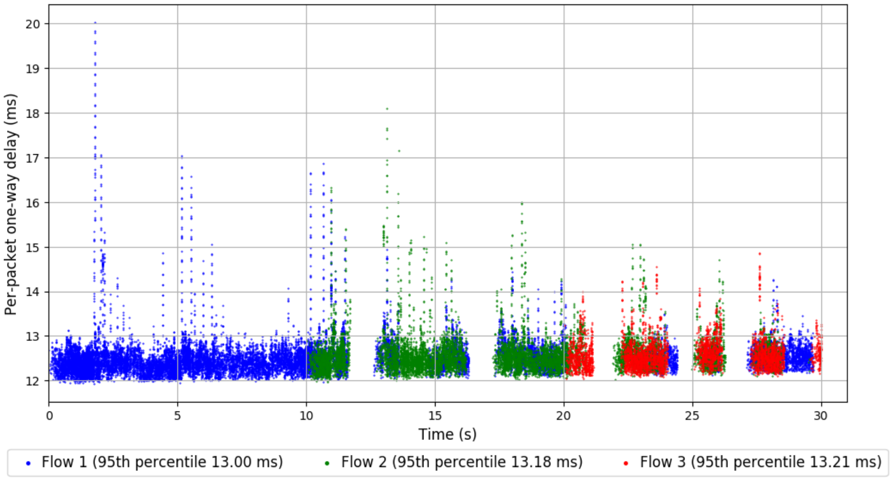
```
Run 9: Statistics of LEDBAT

Start at: 2018-05-30 18:30:22
End at: 2018-05-30 18:30:52
Local clock offset: -3.298 ms
Remote clock offset: -2.097 ms

# Below is generated by plot.py at 2018-05-30 19:07:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.96 Mbit/s
95th percentile per-packet one-way delay: 13.086 ms
Loss rate: 1.91%
-- Flow 1:
Average throughput: 10.19 Mbit/s
95th percentile per-packet one-way delay: 12.996 ms
Loss rate: 1.26%
-- Flow 2:
Average throughput: 7.86 Mbit/s
95th percentile per-packet one-way delay: 13.179 ms
Loss rate: 2.42%
-- Flow 3:
Average throughput: 5.31 Mbit/s
95th percentile per-packet one-way delay: 13.212 ms
Loss rate: 4.06%
```

Run 9: Report of LEDBAT — Data Link



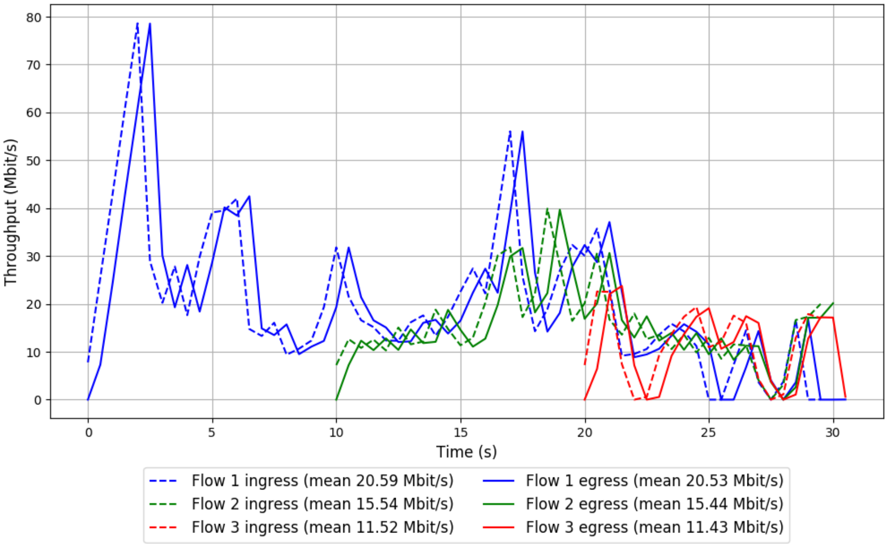


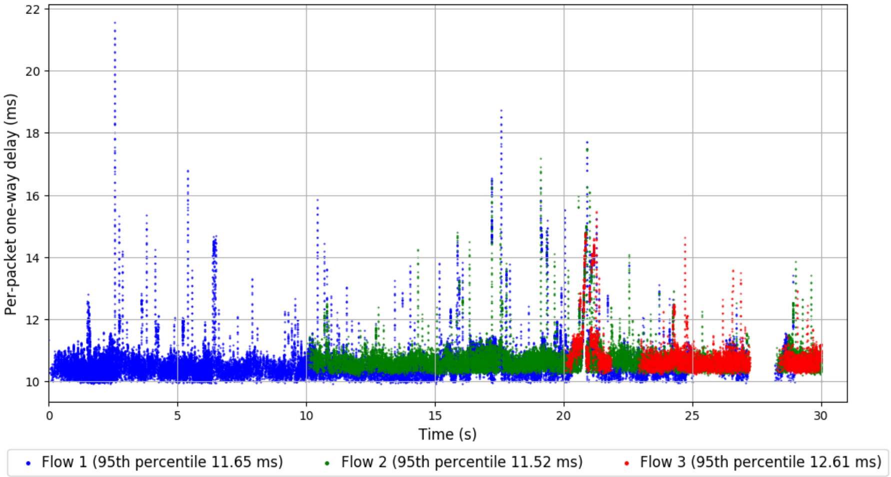
```
Run 10: Statistics of LEDBAT

Start at: 2018-05-30 18:48:50
End at: 2018-05-30 18:49:20
Local clock offset: -1.638 ms
Remote clock offset: -5.986 ms

# Below is generated by plot.py at 2018-05-30 19:07:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 34.62 Mbit/s
95th percentile per-packet one-way delay: 11.722 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 20.53 Mbit/s
95th percentile per-packet one-way delay: 11.650 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 15.44 Mbit/s
95th percentile per-packet one-way delay: 11.524 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 11.43 Mbit/s
95th percentile per-packet one-way delay: 12.609 ms
Loss rate: 0.80%
```

Run 10: Report of LEDBAT — Data Link



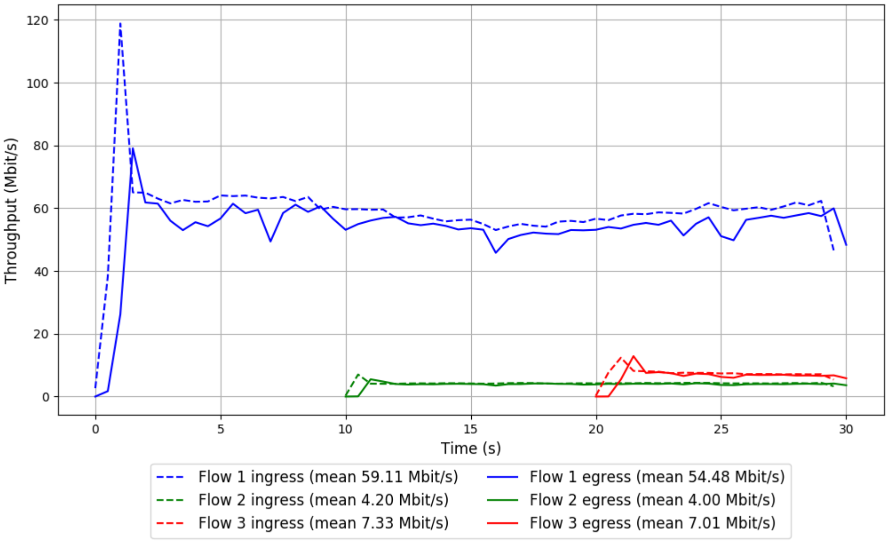


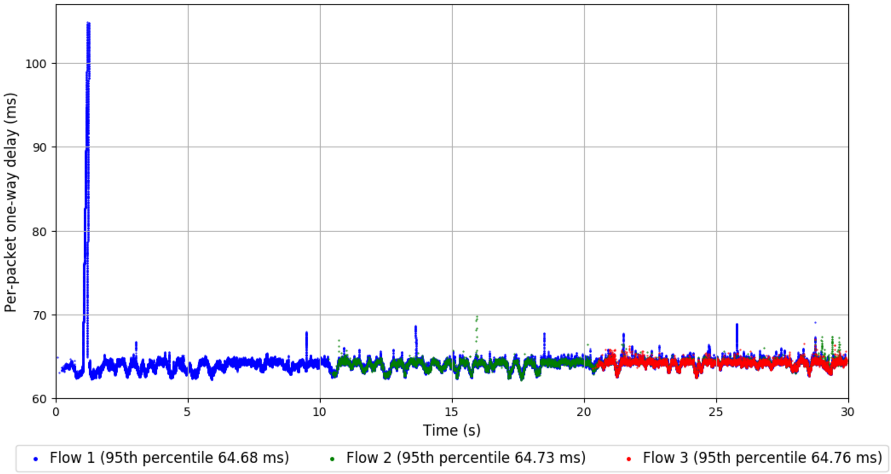
```
Run 1: Statistics of PCC-Allegro

Start at: 2018-05-30 16:00:16
End at: 2018-05-30 16:00:46
Local clock offset: -2.717 ms
Remote clock offset: 4.292 ms

# Below is generated by plot.py at 2018-05-30 19:08:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.31 Mbit/s
95th percentile per-packet one-way delay: 64.691 ms
Loss rate: 7.80%
-- Flow 1:
Average throughput: 54.48 Mbit/s
95th percentile per-packet one-way delay: 64.684 ms
Loss rate: 7.93%
-- Flow 2:
Average throughput: 4.00 Mbit/s
95th percentile per-packet one-way delay: 64.730 ms
Loss rate: 5.99%
-- Flow 3:
Average throughput: 7.01 Mbit/s
95th percentile per-packet one-way delay: 64.762 ms
Loss rate: 6.90%
```

Run 1: Report of PCC-Allegro — Data Link



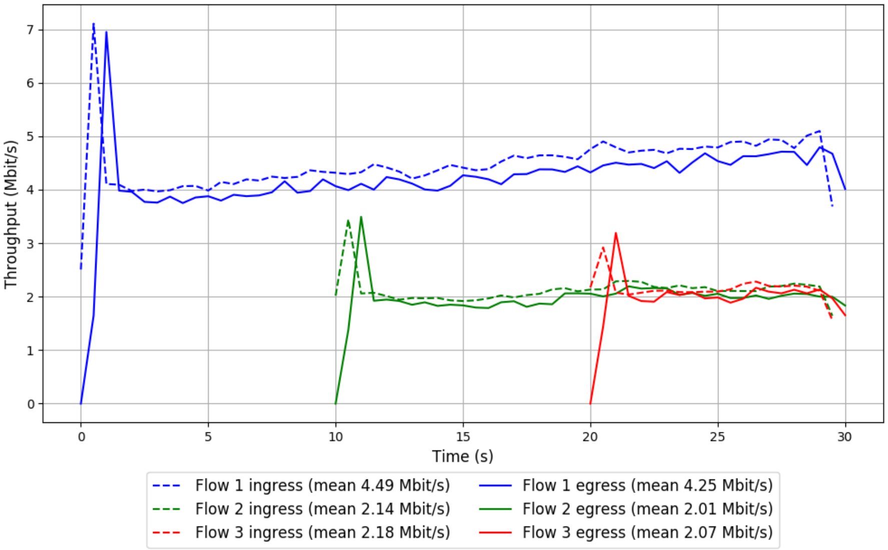


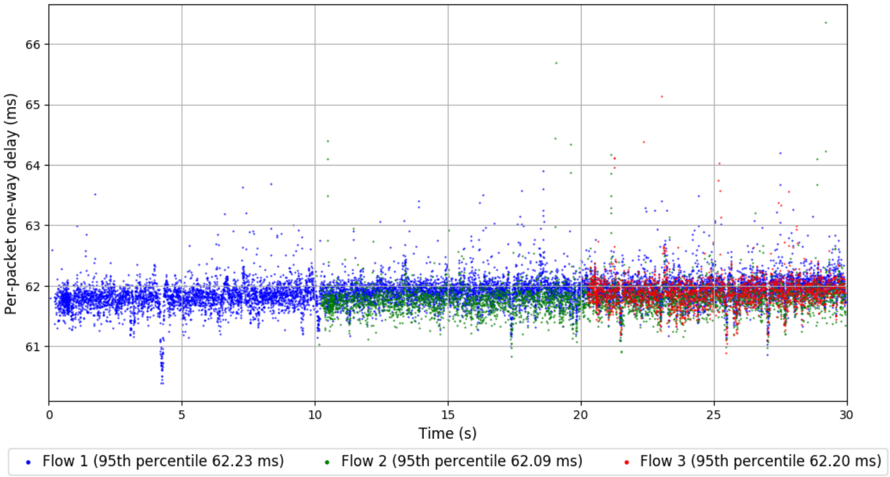
```
Run 2: Statistics of PCC-Allegro

Start at: 2018-05-30 16:19:51
End at: 2018-05-30 16:20:21
Local clock offset: 0.042 ms
Remote clock offset: -7.934 ms

# Below is generated by plot.py at 2018-05-30 19:08:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.26 Mbit/s
95th percentile per-packet one-way delay: 62.205 ms
Loss rate: 5.48%
-- Flow 1:
Average throughput: 4.25 Mbit/s
95th percentile per-packet one-way delay: 62.231 ms
Loss rate: 5.39%
-- Flow 2:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 62.093 ms
Loss rate: 5.90%
-- Flow 3:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 62.200 ms
Loss rate: 5.19%
```

Run 2: Report of PCC-Allegro — Data Link



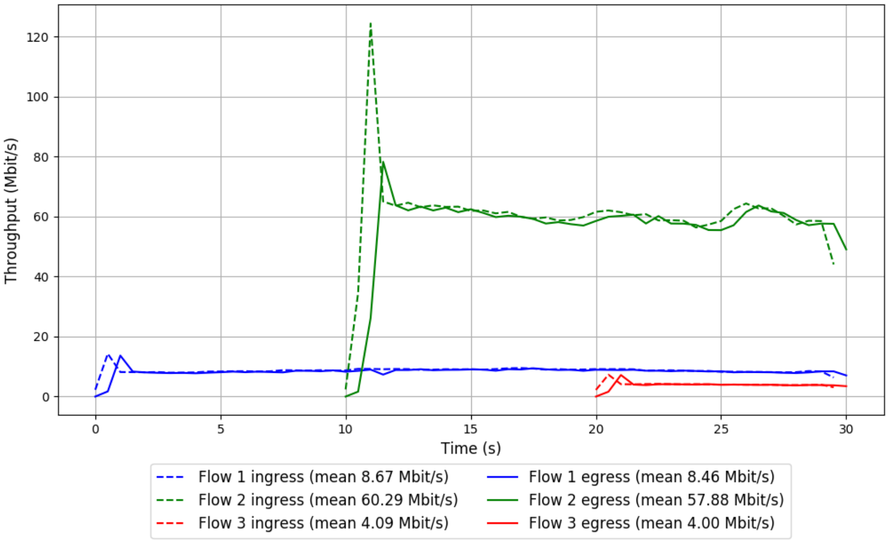


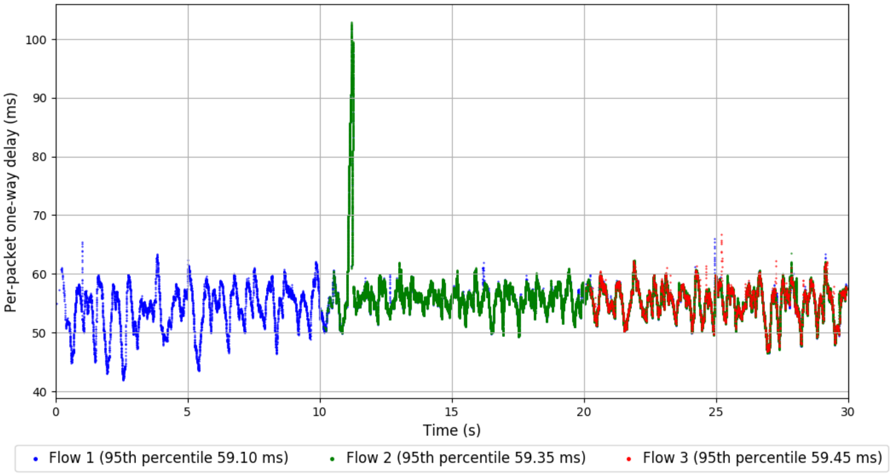
```
Run 3: Statistics of PCC-Allegro

Start at: 2018-05-30 16:38:56
End at: 2018-05-30 16:39:26
Local clock offset: 2.653 ms
Remote clock offset: -13.643 ms

# Below is generated by plot.py at 2018-05-30 19:08:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.28 Mbit/s
95th percentile per-packet one-way delay: 59.308 ms
Loss rate: 3.65%
-- Flow 1:
Average throughput: 8.46 Mbit/s
95th percentile per-packet one-way delay: 59.100 ms
Loss rate: 2.37%
-- Flow 2:
Average throughput: 57.88 Mbit/s
95th percentile per-packet one-way delay: 59.350 ms
Loss rate: 3.98%
-- Flow 3:
Average throughput: 4.00 Mbit/s
95th percentile per-packet one-way delay: 59.454 ms
Loss rate: 2.17%
```

Run 3: Report of PCC-Allegro — Data Link



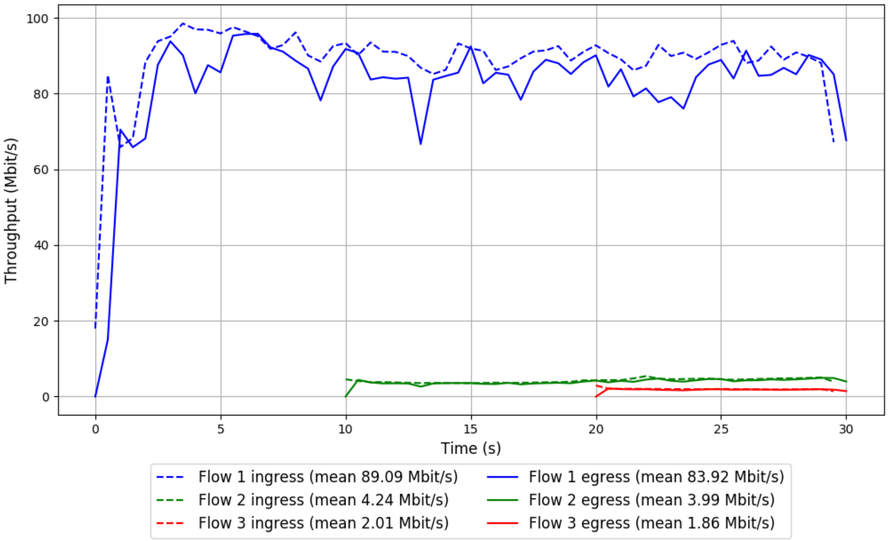


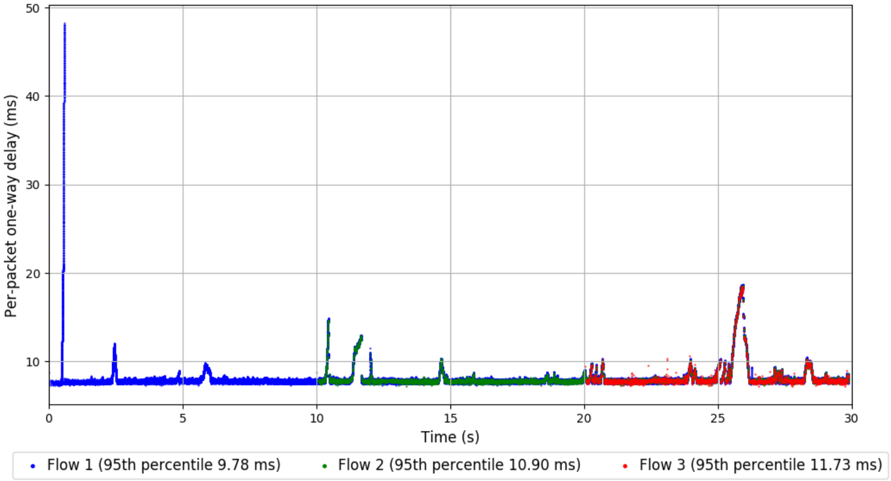
```
Run 4: Statistics of PCC-Allegro

Start at: 2018-05-30 16:58:52
End at: 2018-05-30 16:59:22
Local clock offset: 2.027 ms
Remote clock offset: -15.009 ms

# Below is generated by plot.py at 2018-05-30 19:08:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.19 Mbit/s
95th percentile per-packet one-way delay: 9.810 ms
Loss rate: 5.82%
-- Flow 1:
Average throughput: 83.92 Mbit/s
95th percentile per-packet one-way delay: 9.776 ms
Loss rate: 5.81%
-- Flow 2:
Average throughput: 3.99 Mbit/s
95th percentile per-packet one-way delay: 10.901 ms
Loss rate: 5.99%
-- Flow 3:
Average throughput: 1.86 Mbit/s
95th percentile per-packet one-way delay: 11.726 ms
Loss rate: 7.51%
```

Run 4: Report of PCC-Allegro — Data Link



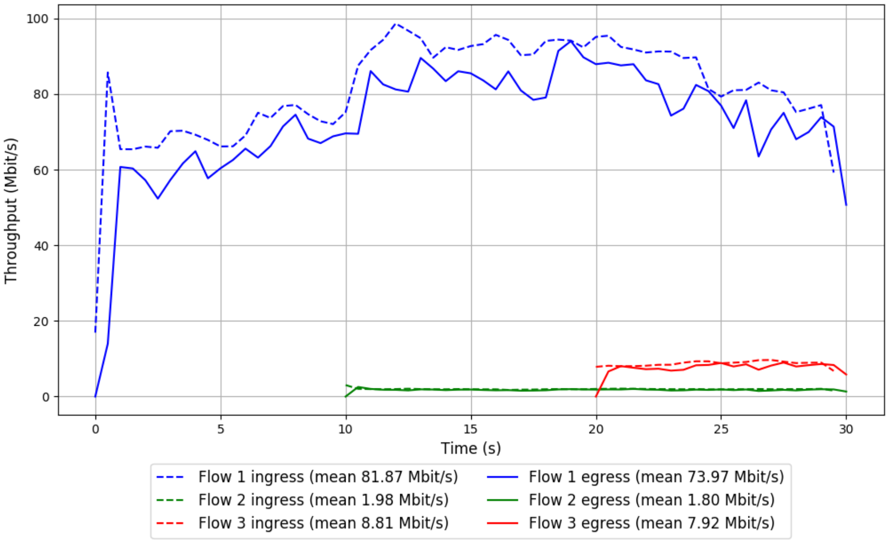


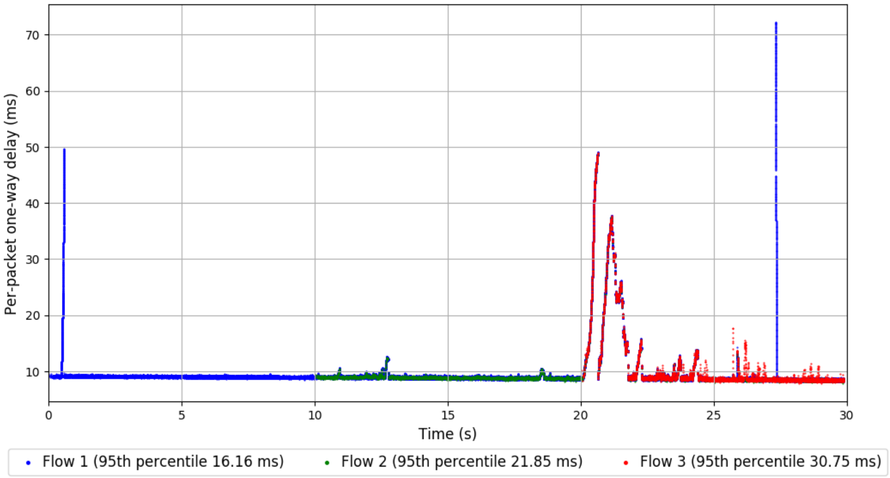
```
Run 5: Statistics of PCC-Allegro

Start at: 2018-05-30 17:17:48
End at: 2018-05-30 17:18:18
Local clock offset: -0.029 ms
Remote clock offset: -15.775 ms

# Below is generated by plot.py at 2018-05-30 19:08:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.77 Mbit/s
95th percentile per-packet one-way delay: 17.213 ms
Loss rate: 9.67%
-- Flow 1:
Average throughput: 73.97 Mbit/s
95th percentile per-packet one-way delay: 16.165 ms
Loss rate: 9.66%
-- Flow 2:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 21.853 ms
Loss rate: 9.51%
-- Flow 3:
Average throughput: 7.92 Mbit/s
95th percentile per-packet one-way delay: 30.752 ms
Loss rate: 10.10%
```

Run 5: Report of PCC-Allegro — Data Link



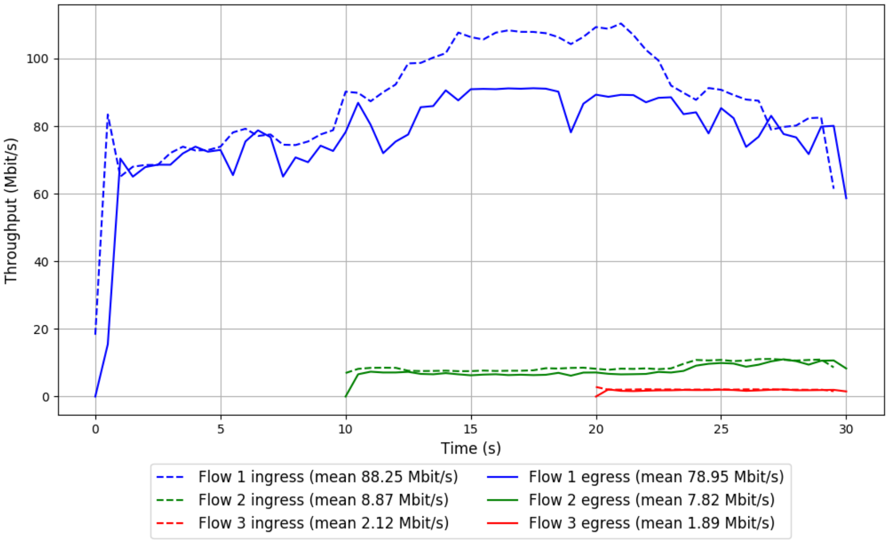


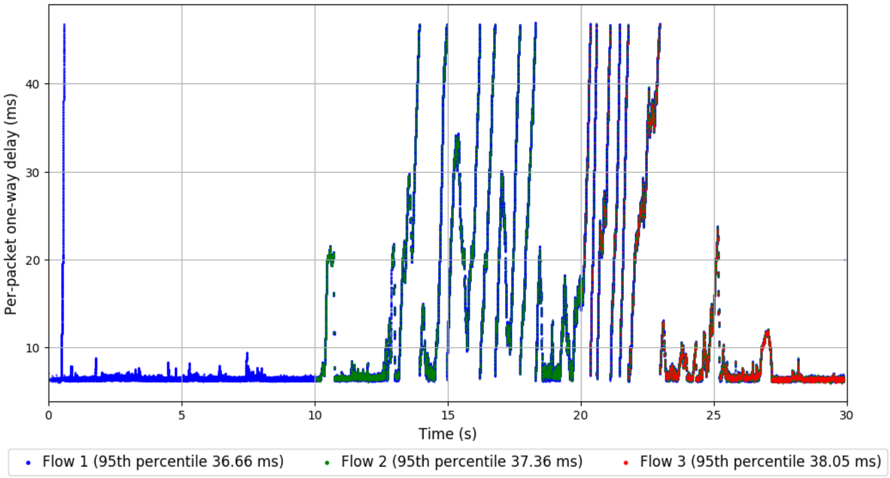
```
Run 6: Statistics of PCC-Allegro

Start at: 2018-05-30 17:37:19
End at: 2018-05-30 17:37:49
Local clock offset: 2.538 ms
Remote clock offset: -1.468 ms

# Below is generated by plot.py at 2018-05-30 19:08:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.78 Mbit/s
95th percentile per-packet one-way delay: 36.715 ms
Loss rate: 10.58%
-- Flow 1:
Average throughput: 78.95 Mbit/s
95th percentile per-packet one-way delay: 36.658 ms
Loss rate: 10.49%
-- Flow 2:
Average throughput: 7.82 Mbit/s
95th percentile per-packet one-way delay: 37.359 ms
Loss rate: 11.84%
-- Flow 3:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 38.055 ms
Loss rate: 10.81%
```

Run 6: Report of PCC-Allegro — Data Link



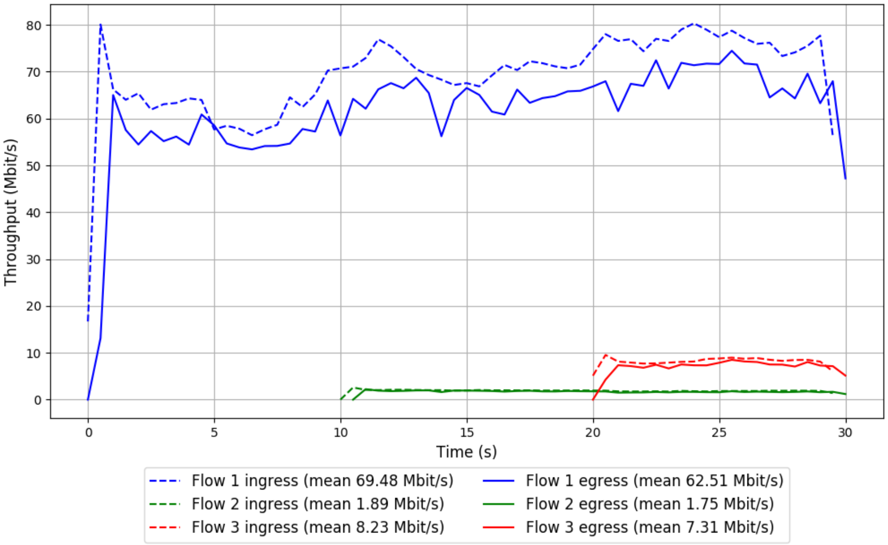


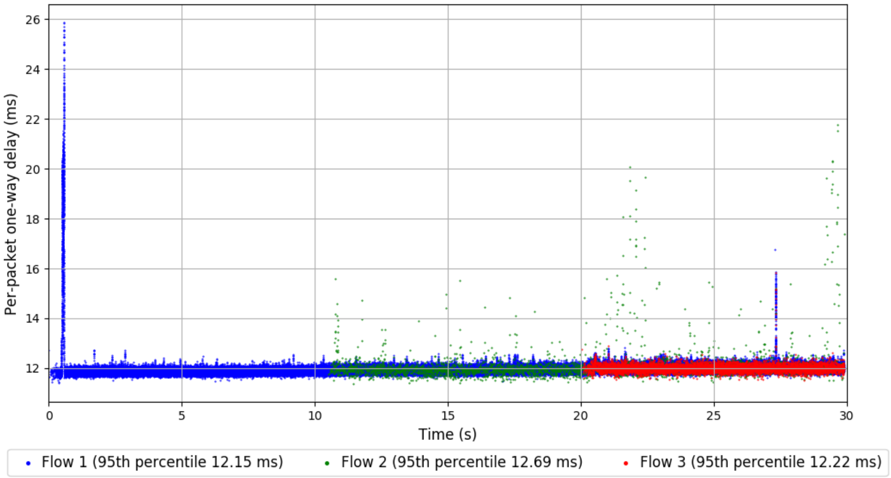
```
Run 7: Statistics of PCC-Allegro

Start at: 2018-05-30 17:56:06
End at: 2018-05-30 17:56:36
Local clock offset: -1.848 ms
Remote clock offset: 0.944 ms

# Below is generated by plot.py at 2018-05-30 19:08:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.05 Mbit/s
95th percentile per-packet one-way delay: 12.158 ms
Loss rate: 10.06%
-- Flow 1:
Average throughput: 62.51 Mbit/s
95th percentile per-packet one-way delay: 12.148 ms
Loss rate: 10.02%
-- Flow 2:
Average throughput: 1.75 Mbit/s
95th percentile per-packet one-way delay: 12.685 ms
Loss rate: 9.90%
-- Flow 3:
Average throughput: 7.31 Mbit/s
95th percentile per-packet one-way delay: 12.224 ms
Loss rate: 11.18%
```

Run 7: Report of PCC-Allegro — Data Link



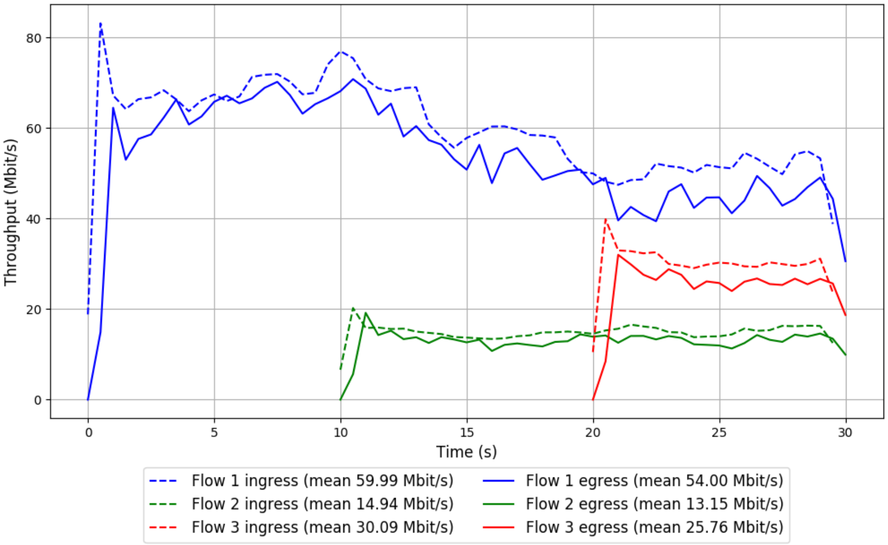


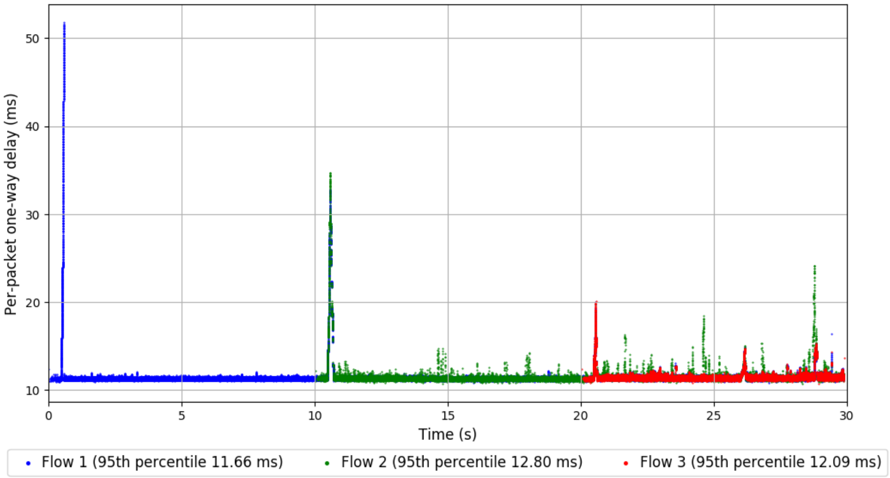
```
Run 8: Statistics of PCC-Allegro

Start at: 2018-05-30 18:14:45
End at: 2018-05-30 18:15:15
Local clock offset: -2.829 ms
Remote clock offset: -0.127 ms

# Below is generated by plot.py at 2018-05-30 19:08:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.24 Mbit/s
95th percentile per-packet one-way delay: 11.805 ms
Loss rate: 10.78%
-- Flow 1:
Average throughput: 54.00 Mbit/s
95th percentile per-packet one-way delay: 11.664 ms
Loss rate: 9.98%
-- Flow 2:
Average throughput: 13.15 Mbit/s
95th percentile per-packet one-way delay: 12.796 ms
Loss rate: 12.01%
-- Flow 3:
Average throughput: 25.76 Mbit/s
95th percentile per-packet one-way delay: 12.085 ms
Loss rate: 14.37%
```

Run 8: Report of PCC-Allegro — Data Link



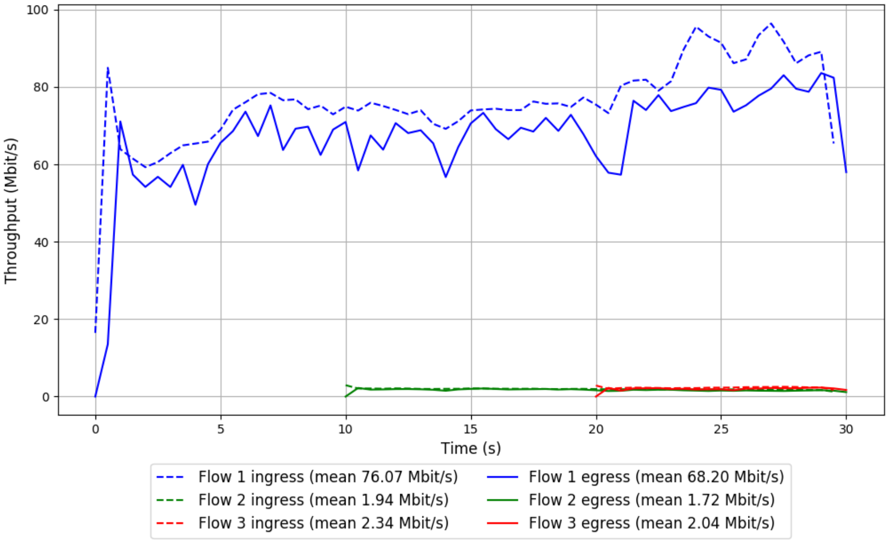


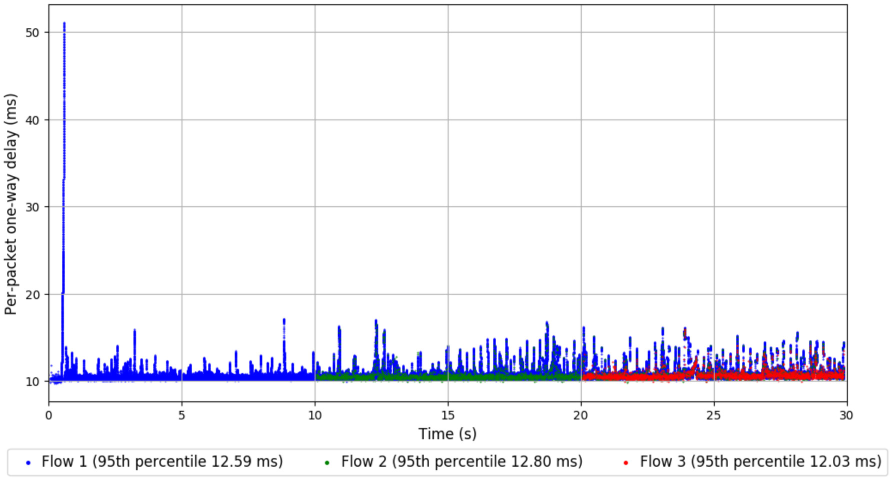
```
Run 9: Statistics of PCC-Allegro

Start at: 2018-05-30 18:33:40
End at: 2018-05-30 18:34:10
Local clock offset: -2.658 ms
Remote clock offset: -4.037 ms

# Below is generated by plot.py at 2018-05-30 19:08:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.02 Mbit/s
95th percentile per-packet one-way delay: 12.592 ms
Loss rate: 10.39%
-- Flow 1:
Average throughput: 68.20 Mbit/s
95th percentile per-packet one-way delay: 12.594 ms
Loss rate: 10.34%
-- Flow 2:
Average throughput: 1.72 Mbit/s
95th percentile per-packet one-way delay: 12.797 ms
Loss rate: 11.65%
-- Flow 3:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 12.033 ms
Loss rate: 12.72%
```

Run 9: Report of PCC-Allegro — Data Link



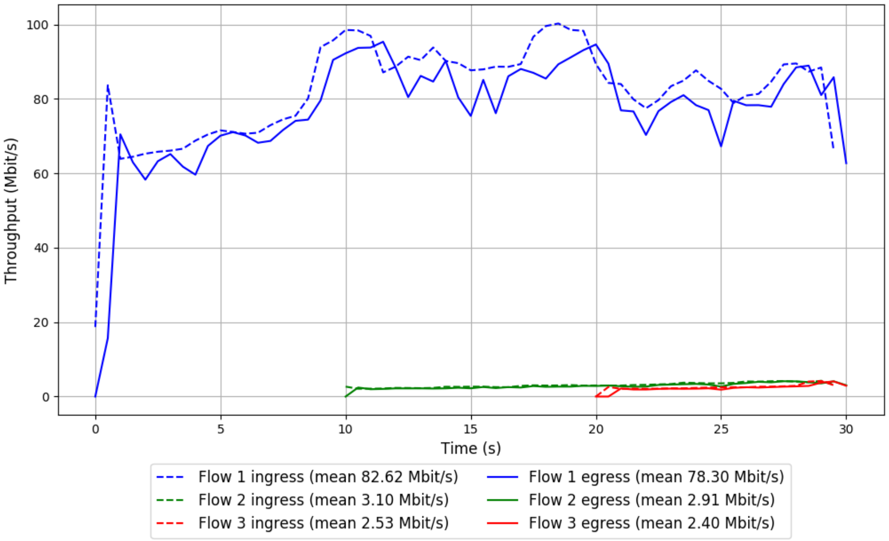


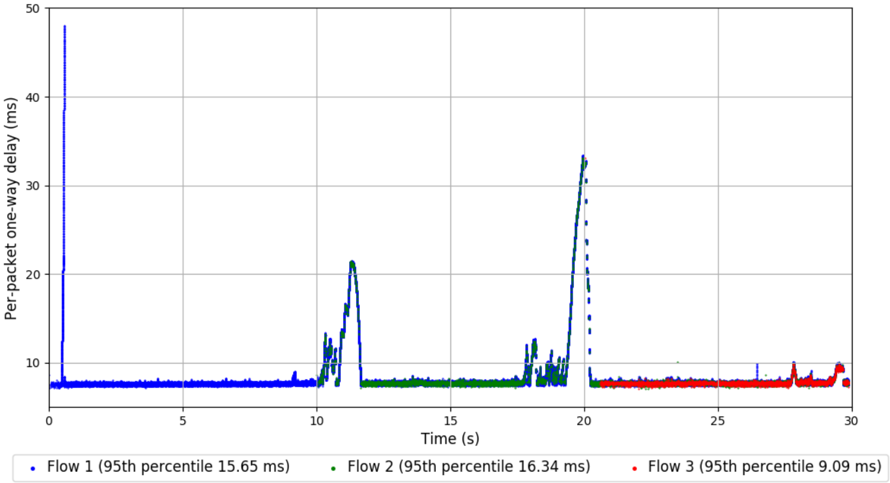
```
Run 10: Statistics of PCC-Allegro

Start at: 2018-05-30 18:52:11
End at: 2018-05-30 18:52:41
Local clock offset: -0.184 ms
Remote clock offset: -7.619 ms

# Below is generated by plot.py at 2018-05-30 19:09:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.03 Mbit/s
95th percentile per-packet one-way delay: 15.551 ms
Loss rate: 5.25%
-- Flow 1:
Average throughput: 78.30 Mbit/s
95th percentile per-packet one-way delay: 15.648 ms
Loss rate: 5.23%
-- Flow 2:
Average throughput: 2.91 Mbit/s
95th percentile per-packet one-way delay: 16.342 ms
Loss rate: 6.05%
-- Flow 3:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 9.090 ms
Loss rate: 5.50%
```

Run 10: Report of PCC-Allegro — Data Link



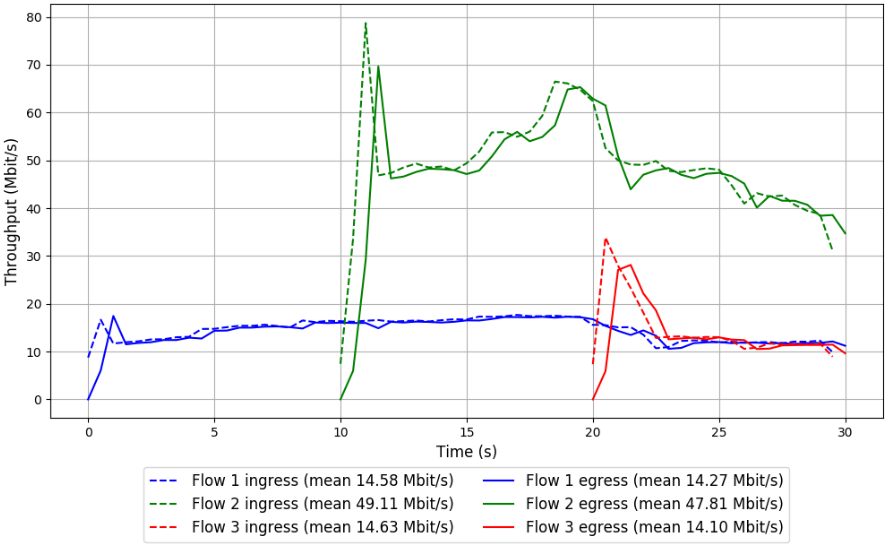


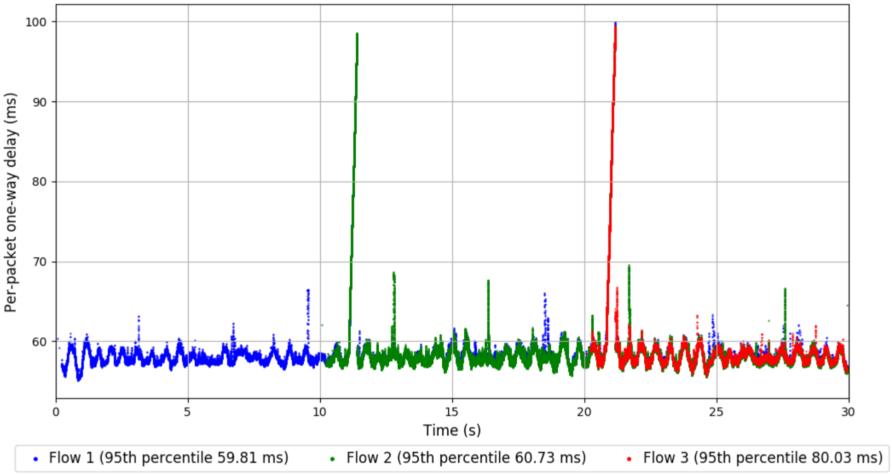
```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-30 15:48:36
End at: 2018-05-30 15:49:06
Local clock offset: 0.616 ms
Remote clock offset: 2.65 ms

# Below is generated by plot.py at 2018-05-30 19:09:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 50.73 Mbit/s
95th percentile per-packet one-way delay: 60.572 ms
Loss rate: 2.62%
-- Flow 1:
Average throughput: 14.27 Mbit/s
95th percentile per-packet one-way delay: 59.813 ms
Loss rate: 2.15%
-- Flow 2:
Average throughput: 47.81 Mbit/s
95th percentile per-packet one-way delay: 60.729 ms
Loss rate: 2.65%
-- Flow 3:
Average throughput: 14.10 Mbit/s
95th percentile per-packet one-way delay: 80.031 ms
Loss rate: 3.81%
```

Run 1: Report of PCC-Expr — Data Link



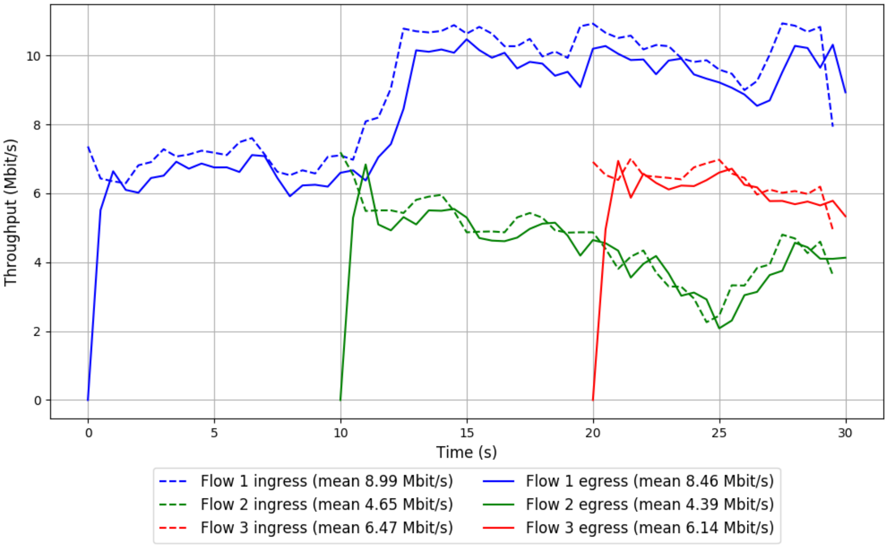


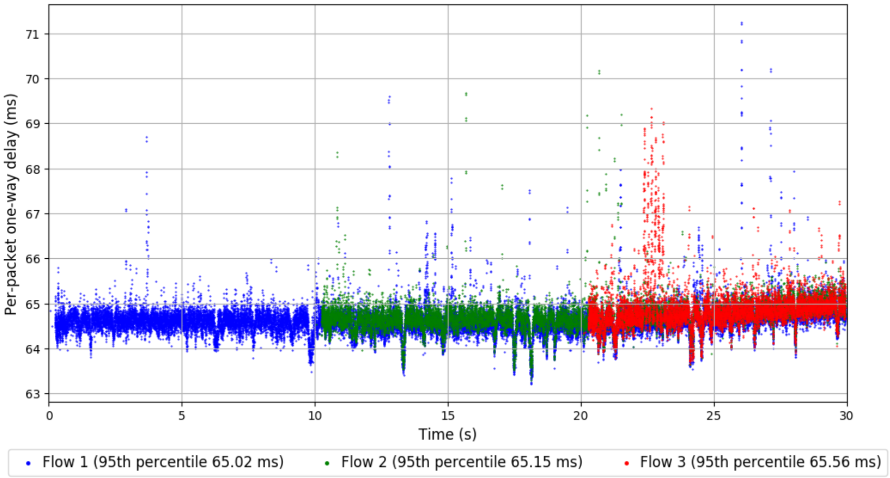
```
Run 2: Statistics of PCC-Expr

Start at: 2018-05-30 16:07:35
End at: 2018-05-30 16:08:05
Local clock offset: -1.25 ms
Remote clock offset: 6.878 ms

# Below is generated by plot.py at 2018-05-30 19:09:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.40 Mbit/s
95th percentile per-packet one-way delay: 65.130 ms
Loss rate: 5.76%
-- Flow 1:
Average throughput: 8.46 Mbit/s
95th percentile per-packet one-way delay: 65.018 ms
Loss rate: 5.95%
-- Flow 2:
Average throughput: 4.39 Mbit/s
95th percentile per-packet one-way delay: 65.150 ms
Loss rate: 5.64%
-- Flow 3:
Average throughput: 6.14 Mbit/s
95th percentile per-packet one-way delay: 65.561 ms
Loss rate: 5.11%
```

Run 2: Report of PCC-Expr — Data Link



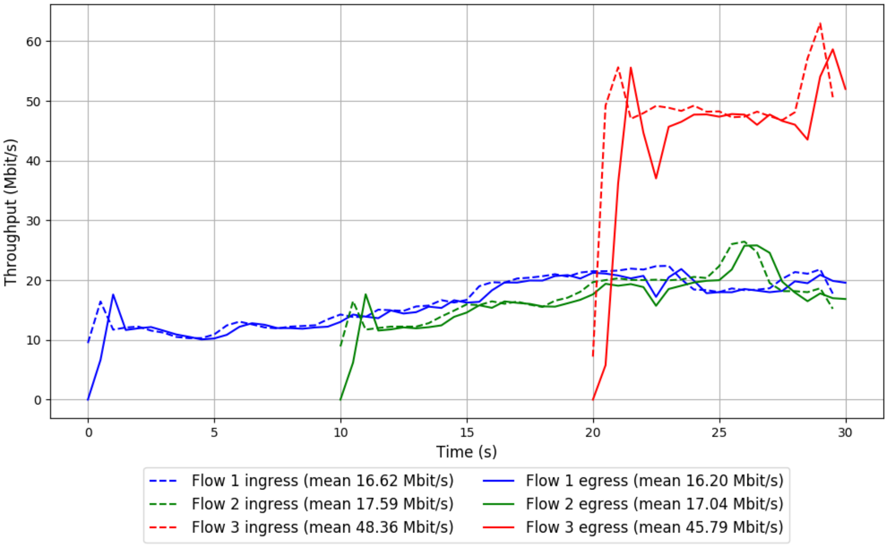


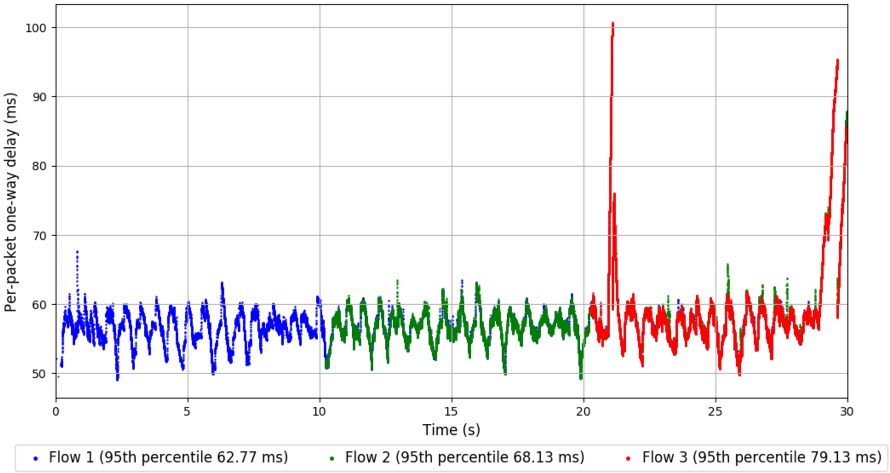
```
Run 3: Statistics of PCC-Expr

Start at: 2018-05-30 16:27:07
End at: 2018-05-30 16:27:37
Local clock offset: 0.408 ms
Remote clock offset: -11.489 ms

# Below is generated by plot.py at 2018-05-30 19:09:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.65 Mbit/s
95th percentile per-packet one-way delay: 72.343 ms
Loss rate: 3.58%
-- Flow 1:
Average throughput: 16.20 Mbit/s
95th percentile per-packet one-way delay: 62.774 ms
Loss rate: 2.38%
-- Flow 2:
Average throughput: 17.04 Mbit/s
95th percentile per-packet one-way delay: 68.132 ms
Loss rate: 2.96%
-- Flow 3:
Average throughput: 45.79 Mbit/s
95th percentile per-packet one-way delay: 79.134 ms
Loss rate: 5.29%
```

Run 3: Report of PCC-Expr — Data Link



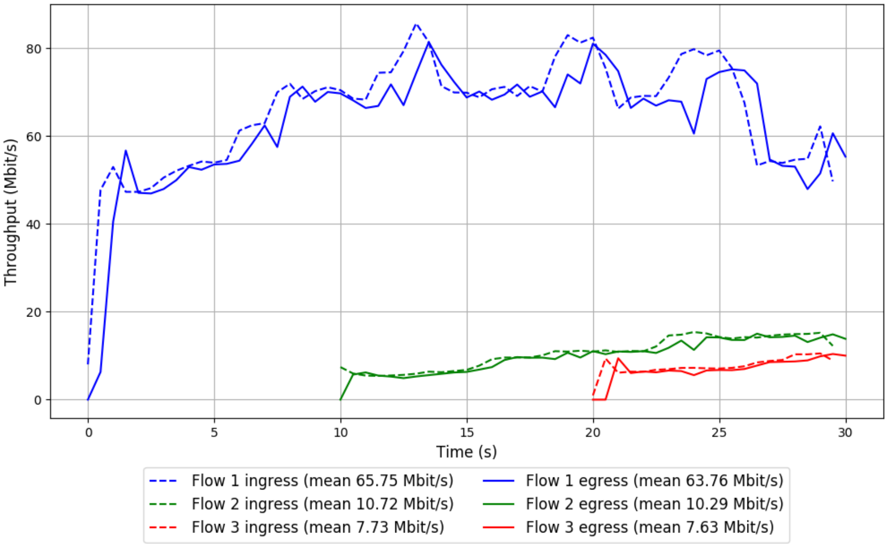


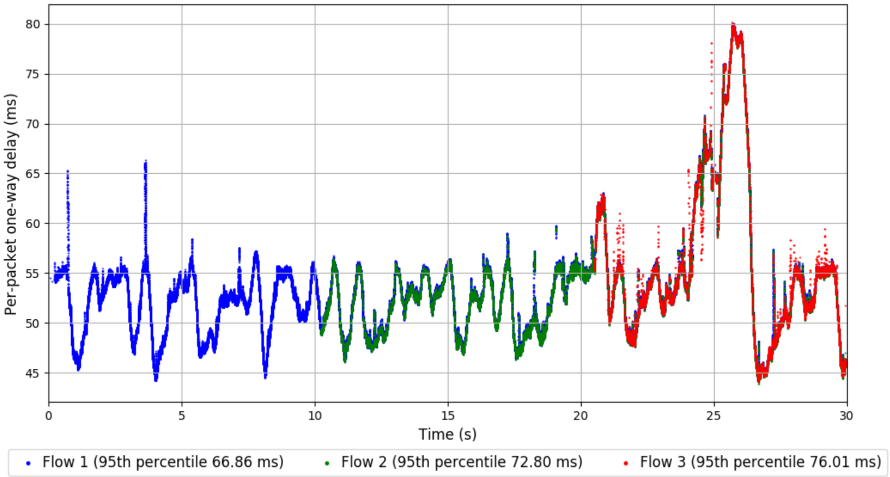
```
Run 4: Statistics of PCC-Expr

Start at: 2018-05-30 16:46:22
End at: 2018-05-30 16:46:52
Local clock offset: 3.082 ms
Remote clock offset: -13.816 ms

# Below is generated by plot.py at 2018-05-30 19:10:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.03 Mbit/s
95th percentile per-packet one-way delay: 67.515 ms
Loss rate: 3.19%
-- Flow 1:
Average throughput: 63.76 Mbit/s
95th percentile per-packet one-way delay: 66.855 ms
Loss rate: 3.08%
-- Flow 2:
Average throughput: 10.29 Mbit/s
95th percentile per-packet one-way delay: 72.803 ms
Loss rate: 4.00%
-- Flow 3:
Average throughput: 7.63 Mbit/s
95th percentile per-packet one-way delay: 76.013 ms
Loss rate: 3.94%
```

Run 4: Report of PCC-Expr — Data Link



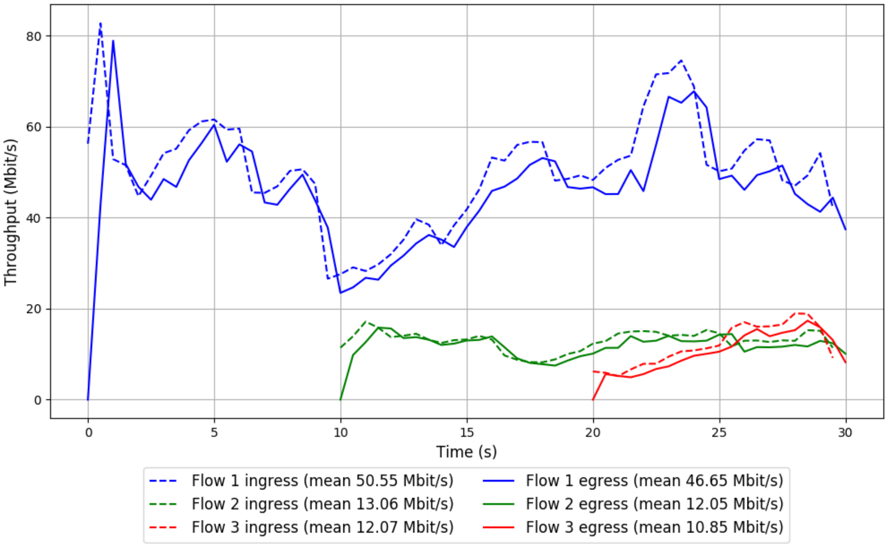


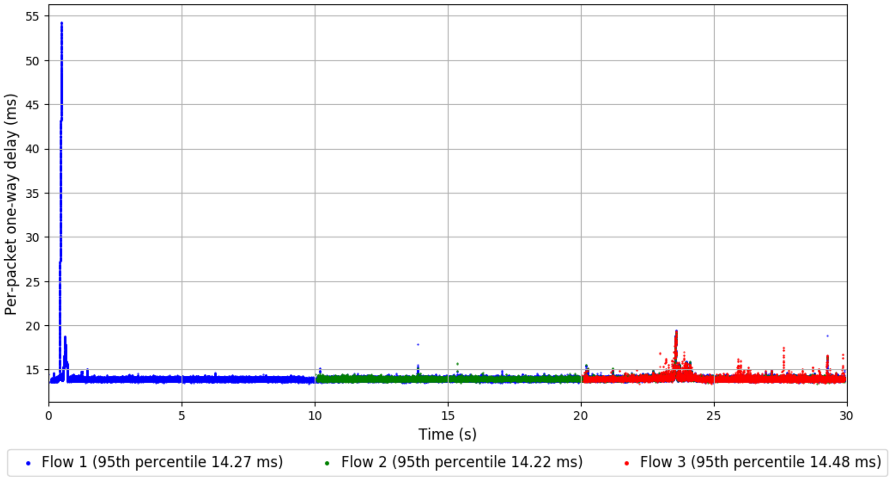
```
Run 5: Statistics of PCC-Expr

Start at: 2018-05-30 17:05:50
End at: 2018-05-30 17:06:20
Local clock offset: -4.351 ms
Remote clock offset: -15.858 ms

# Below is generated by plot.py at 2018-05-30 19:10:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.25 Mbit/s
95th percentile per-packet one-way delay: 14.270 ms
Loss rate: 7.87%
-- Flow 1:
Average throughput: 46.65 Mbit/s
95th percentile per-packet one-way delay: 14.269 ms
Loss rate: 7.72%
-- Flow 2:
Average throughput: 12.05 Mbit/s
95th percentile per-packet one-way delay: 14.221 ms
Loss rate: 7.71%
-- Flow 3:
Average throughput: 10.85 Mbit/s
95th percentile per-packet one-way delay: 14.479 ms
Loss rate: 10.10%
```

Run 5: Report of PCC-Expr — Data Link



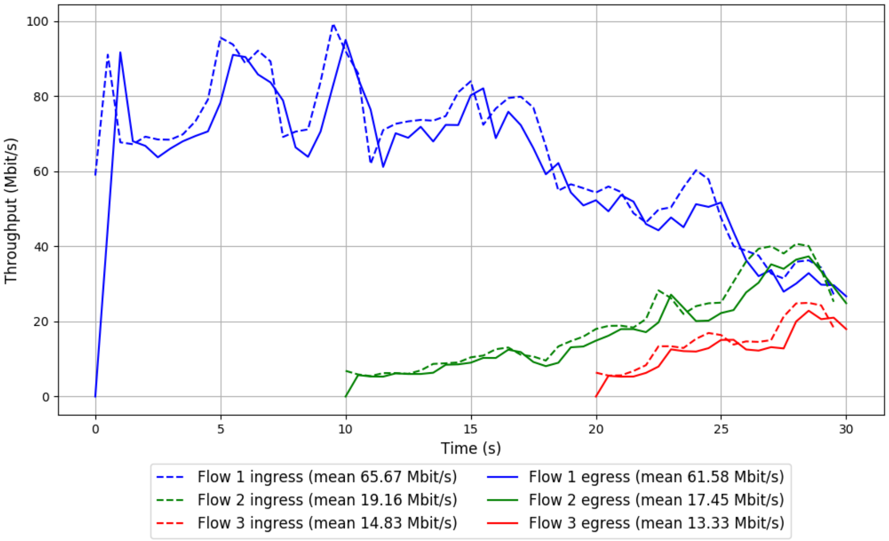


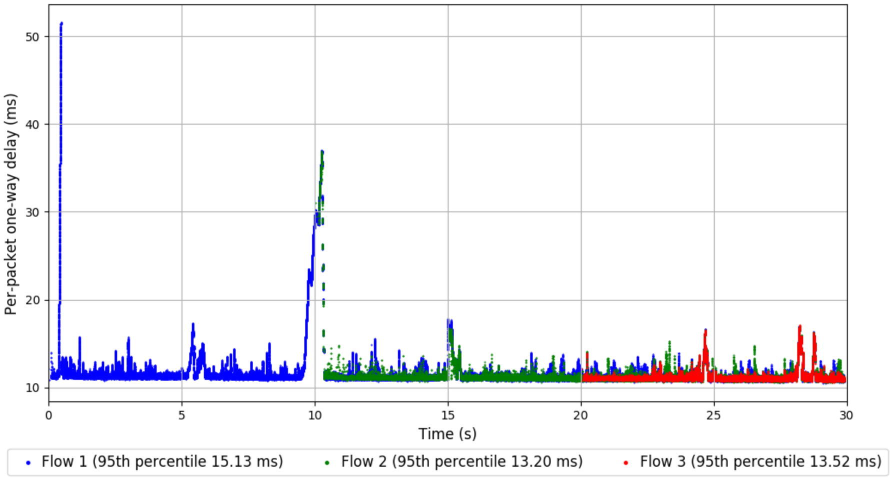
```
Run 6: Statistics of PCC-Expr

Start at: 2018-05-30 17:25:00
End at: 2018-05-30 17:25:30
Local clock offset: -1.946 ms
Remote clock offset: -7.151 ms

# Below is generated by plot.py at 2018-05-30 19:10:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.58 Mbit/s
95th percentile per-packet one-way delay: 14.550 ms
Loss rate: 6.89%
-- Flow 1:
Average throughput: 61.58 Mbit/s
95th percentile per-packet one-way delay: 15.133 ms
Loss rate: 6.24%
-- Flow 2:
Average throughput: 17.45 Mbit/s
95th percentile per-packet one-way delay: 13.204 ms
Loss rate: 8.98%
-- Flow 3:
Average throughput: 13.33 Mbit/s
95th percentile per-packet one-way delay: 13.516 ms
Loss rate: 10.11%
```

Run 6: Report of PCC-Expr — Data Link



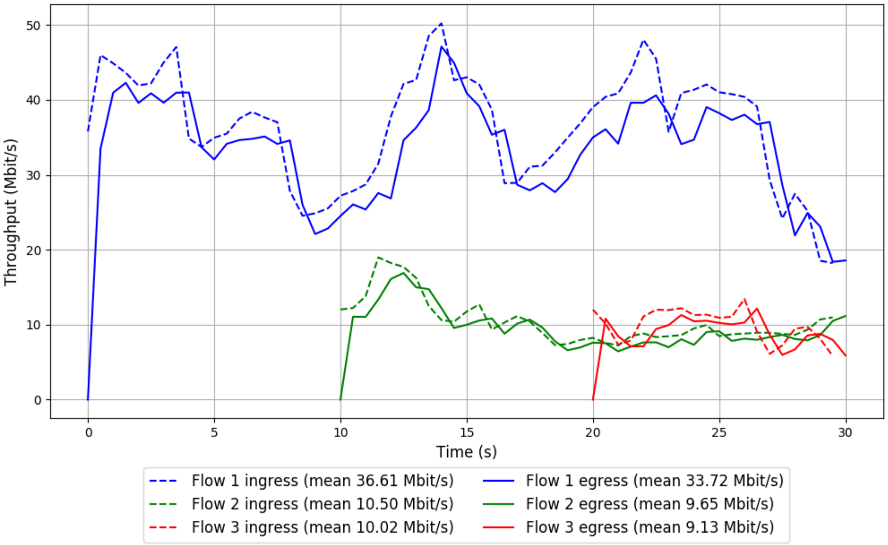


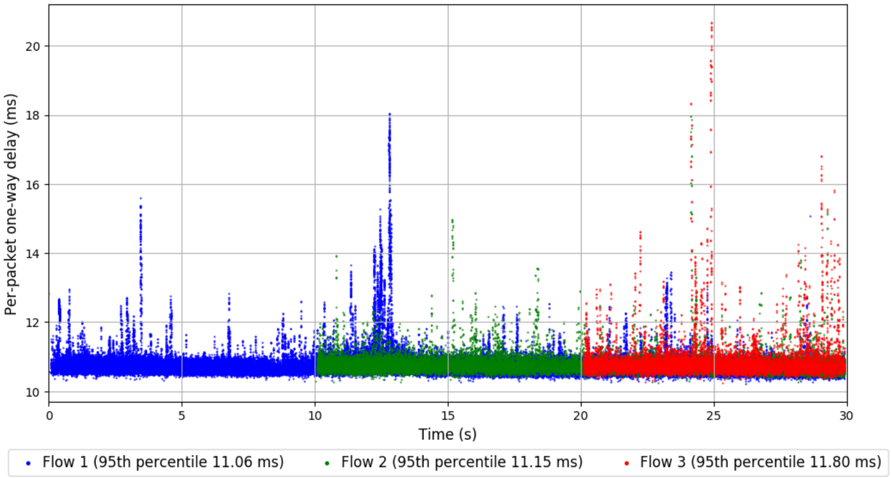
```
Run 7: Statistics of PCC-Expr

Start at: 2018-05-30 17:44:21
End at: 2018-05-30 17:44:51
Local clock offset: -1.003 ms
Remote clock offset: 1.058 ms

# Below is generated by plot.py at 2018-05-30 19:10:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 43.15 Mbit/s
95th percentile per-packet one-way delay: 11.118 ms
Loss rate: 8.01%
-- Flow 1:
Average throughput: 33.72 Mbit/s
95th percentile per-packet one-way delay: 11.057 ms
Loss rate: 7.90%
-- Flow 2:
Average throughput: 9.65 Mbit/s
95th percentile per-packet one-way delay: 11.146 ms
Loss rate: 8.11%
-- Flow 3:
Average throughput: 9.13 Mbit/s
95th percentile per-packet one-way delay: 11.802 ms
Loss rate: 8.94%
```

Run 7: Report of PCC-Expr — Data Link



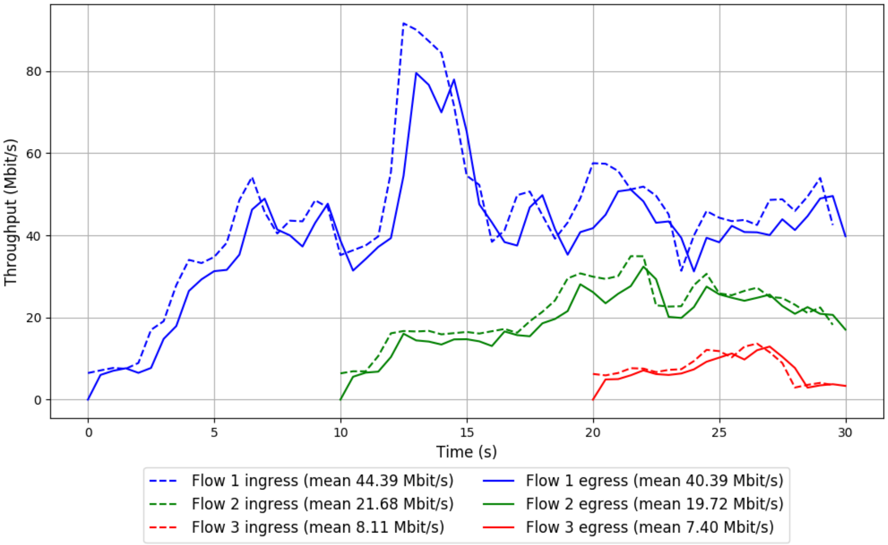


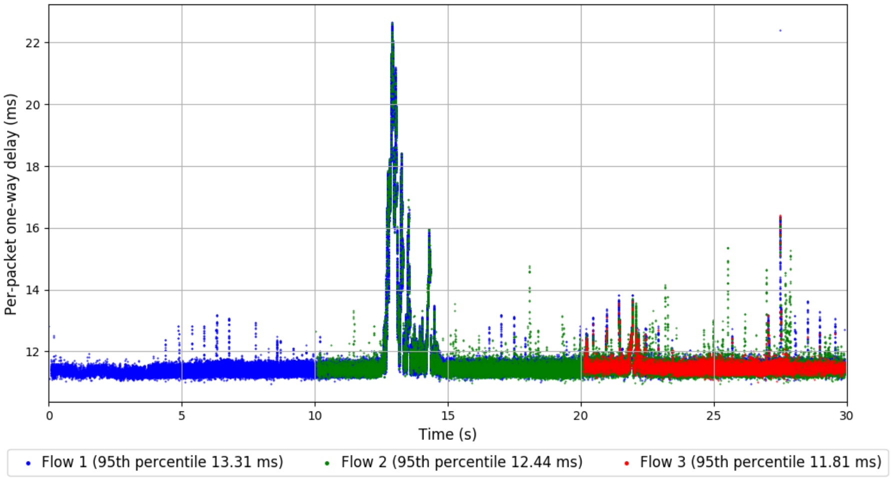
```
Run 8: Statistics of PCC-Expr

Start at: 2018-05-30 18:03:05
End at: 2018-05-30 18:03:35
Local clock offset: -1.995 ms
Remote clock offset: -0.327 ms

# Below is generated by plot.py at 2018-05-30 19:10:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.95 Mbit/s
95th percentile per-packet one-way delay: 12.903 ms
Loss rate: 9.01%
-- Flow 1:
Average throughput: 40.39 Mbit/s
95th percentile per-packet one-way delay: 13.311 ms
Loss rate: 9.00%
-- Flow 2:
Average throughput: 19.72 Mbit/s
95th percentile per-packet one-way delay: 12.436 ms
Loss rate: 9.07%
-- Flow 3:
Average throughput: 7.40 Mbit/s
95th percentile per-packet one-way delay: 11.814 ms
Loss rate: 8.79%
```

Run 8: Report of PCC-Expr — Data Link



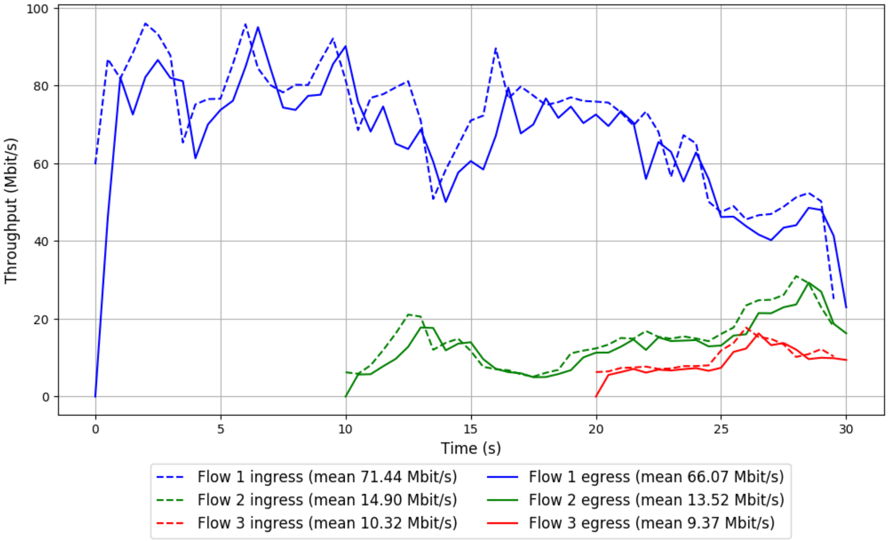


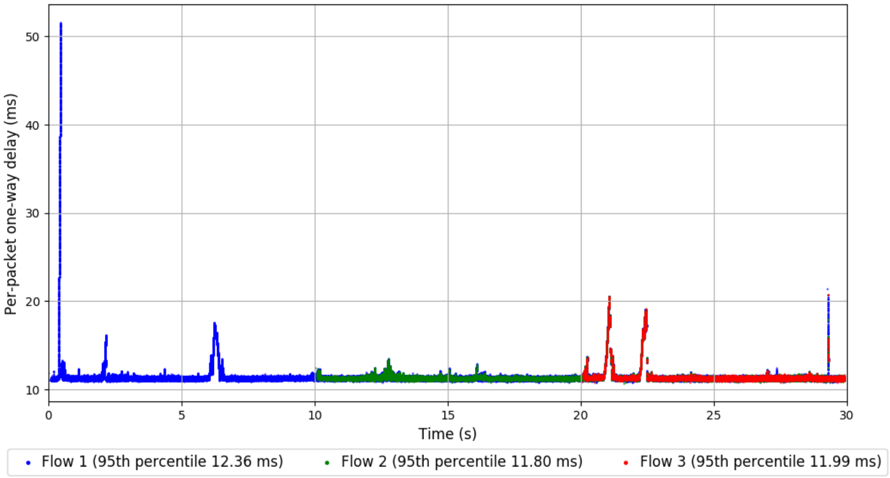
```
Run 9: Statistics of PCC-Expr

Start at: 2018-05-30 18:21:45
End at: 2018-05-30 18:22:15
Local clock offset: -3.152 ms
Remote clock offset: 0.341 ms

# Below is generated by plot.py at 2018-05-30 19:11:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.16 Mbit/s
95th percentile per-packet one-way delay: 12.268 ms
Loss rate: 7.78%
-- Flow 1:
Average throughput: 66.07 Mbit/s
95th percentile per-packet one-way delay: 12.364 ms
Loss rate: 7.51%
-- Flow 2:
Average throughput: 13.52 Mbit/s
95th percentile per-packet one-way delay: 11.797 ms
Loss rate: 9.26%
-- Flow 3:
Average throughput: 9.37 Mbit/s
95th percentile per-packet one-way delay: 11.995 ms
Loss rate: 9.18%
```

Run 9: Report of PCC-Expr — Data Link



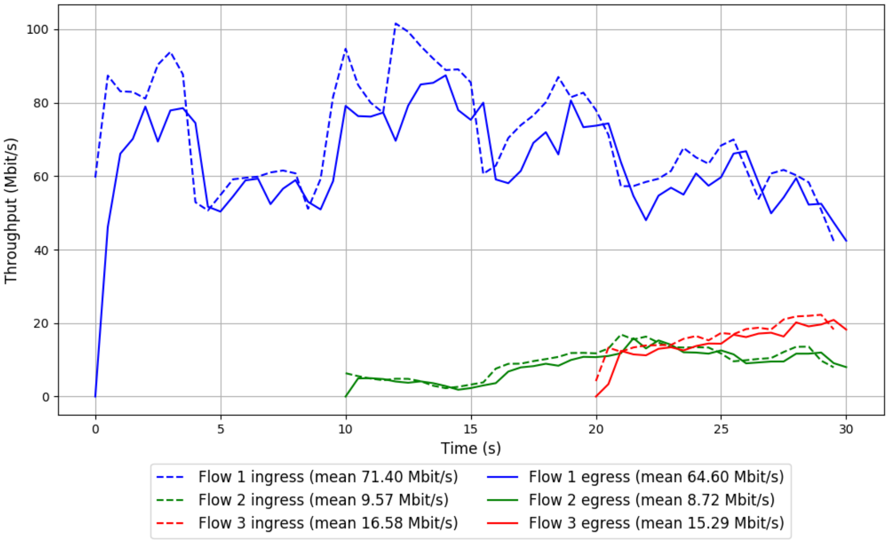


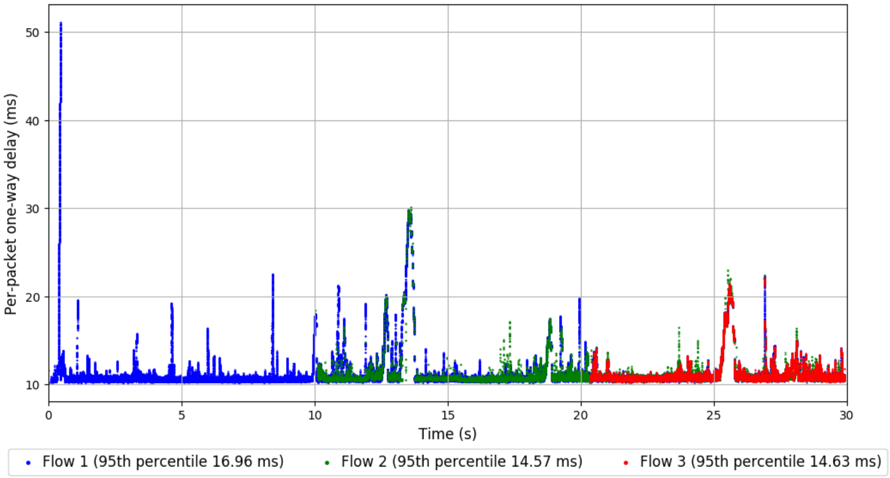
```
Run 10: Statistics of PCC-Expr

Start at: 2018-05-30 18:40:39
End at: 2018-05-30 18:41:09
Local clock offset: -3.016 ms
Remote clock offset: -5.776 ms

# Below is generated by plot.py at 2018-05-30 19:11:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.45 Mbit/s
95th percentile per-packet one-way delay: 16.670 ms
Loss rate: 9.36%
-- Flow 1:
Average throughput: 64.60 Mbit/s
95th percentile per-packet one-way delay: 16.956 ms
Loss rate: 9.52%
-- Flow 2:
Average throughput: 8.72 Mbit/s
95th percentile per-packet one-way delay: 14.575 ms
Loss rate: 8.94%
-- Flow 3:
Average throughput: 15.29 Mbit/s
95th percentile per-packet one-way delay: 14.630 ms
Loss rate: 7.80%
```

Run 10: Report of PCC-Expr — Data Link



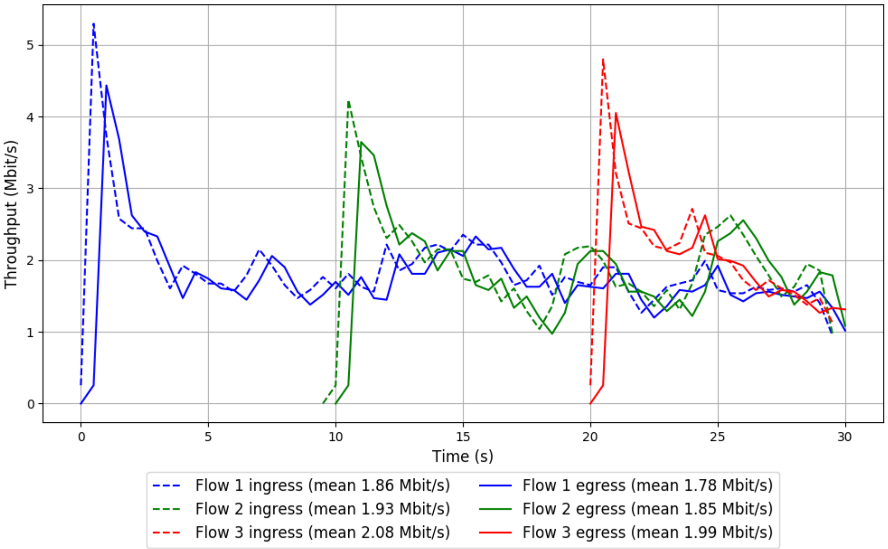


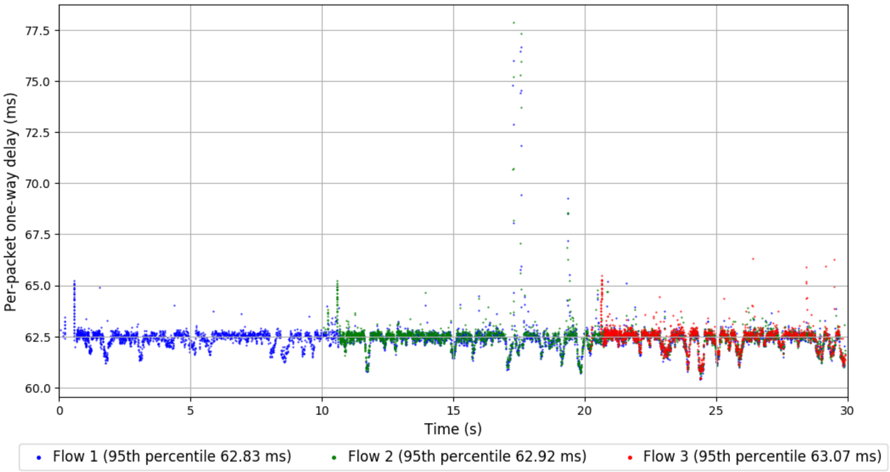
```
Run 1: Statistics of QUIC Cubic

Start at: 2018-05-30 16:02:37
End at: 2018-05-30 16:03:07
Local clock offset: -0.962 ms
Remote clock offset: 4.773 ms

# Below is generated by plot.py at 2018-05-30 19:11:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.66 Mbit/s
95th percentile per-packet one-way delay: 62.902 ms
Loss rate: 4.45%
-- Flow 1:
Average throughput: 1.78 Mbit/s
95th percentile per-packet one-way delay: 62.828 ms
Loss rate: 4.72%
-- Flow 2:
Average throughput: 1.85 Mbit/s
95th percentile per-packet one-way delay: 62.925 ms
Loss rate: 4.16%
-- Flow 3:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 63.069 ms
Loss rate: 4.27%
```

Run 1: Report of QUIC Cubic — Data Link



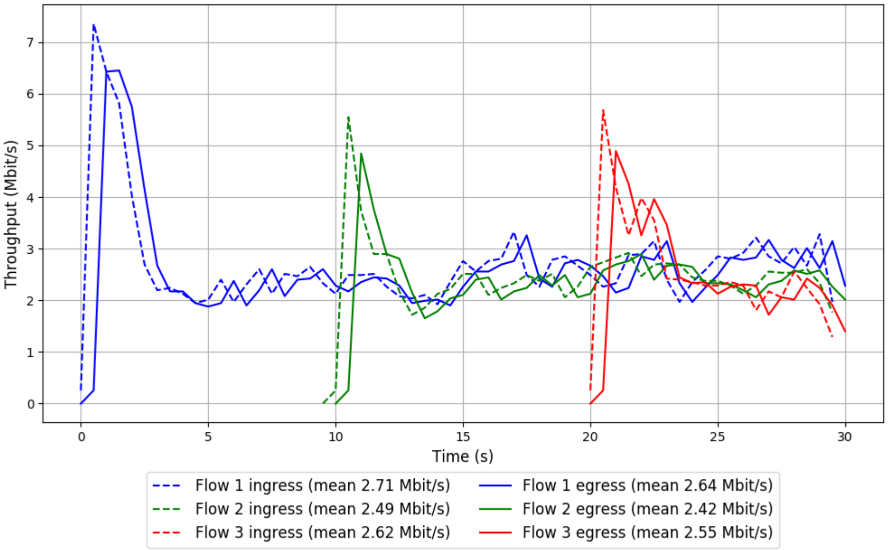


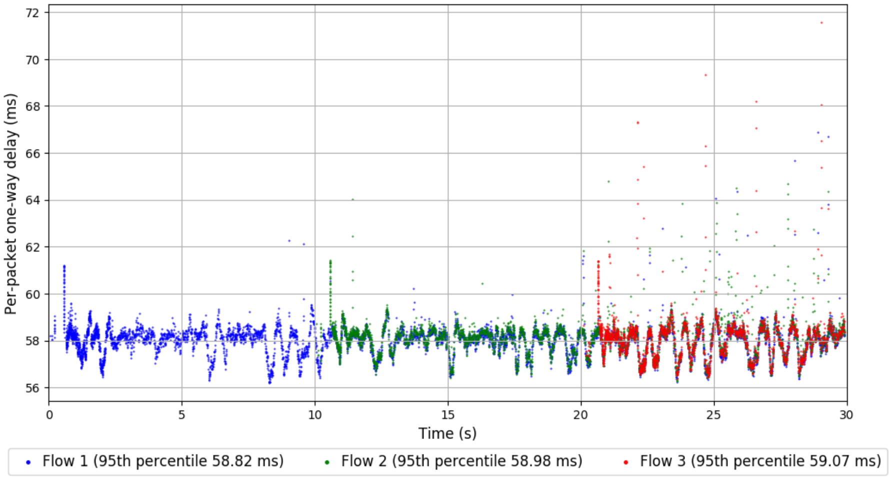
```
Run 2: Statistics of QUIC Cubic

Start at: 2018-05-30 16:22:20
End at: 2018-05-30 16:22:50
Local clock offset: 1.003 ms
Remote clock offset: -9.645 ms

# Below is generated by plot.py at 2018-05-30 19:11:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.09 Mbit/s
95th percentile per-packet one-way delay: 58.904 ms
Loss rate: 2.49%
-- Flow 1:
Average throughput: 2.64 Mbit/s
95th percentile per-packet one-way delay: 58.816 ms
Loss rate: 2.37%
-- Flow 2:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 58.976 ms
Loss rate: 2.57%
-- Flow 3:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 59.071 ms
Loss rate: 2.73%
```

Run 2: Report of QUIC Cubic — Data Link



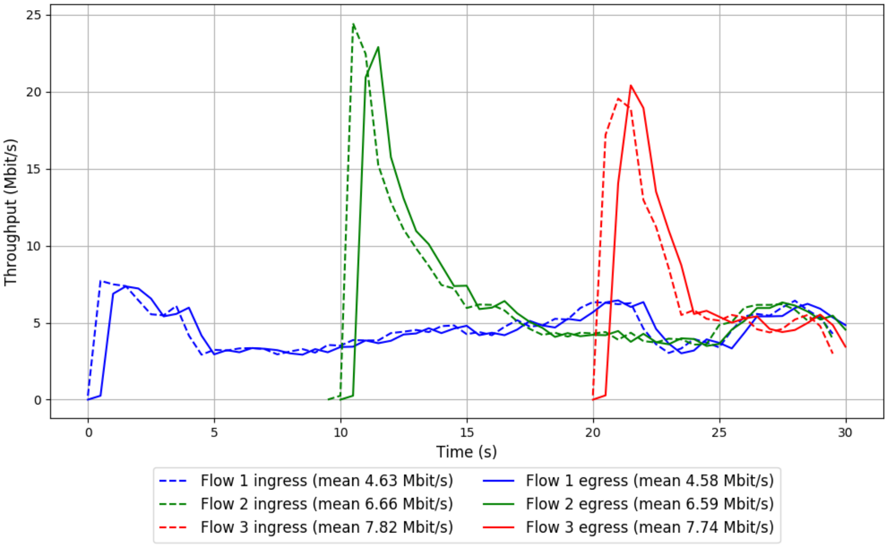


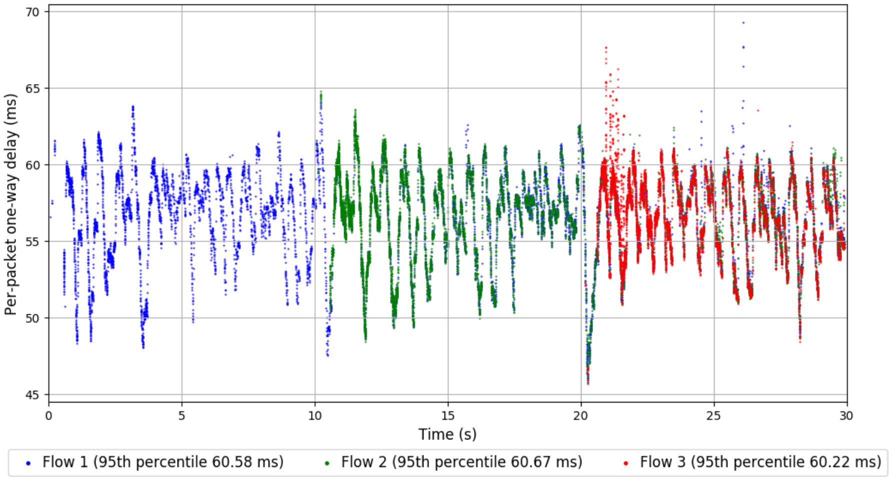
```
Run 3: Statistics of QUIC Cubic

Start at: 2018-05-30 16:41:19
End at: 2018-05-30 16:41:49
Local clock offset: 0.553 ms
Remote clock offset: -13.098 ms

# Below is generated by plot.py at 2018-05-30 19:11:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.50 Mbit/s
95th percentile per-packet one-way delay: 60.542 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 4.58 Mbit/s
95th percentile per-packet one-way delay: 60.582 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 6.59 Mbit/s
95th percentile per-packet one-way delay: 60.668 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 7.74 Mbit/s
95th percentile per-packet one-way delay: 60.219 ms
Loss rate: 1.03%
```

Run 3: Report of QUIC Cubic — Data Link



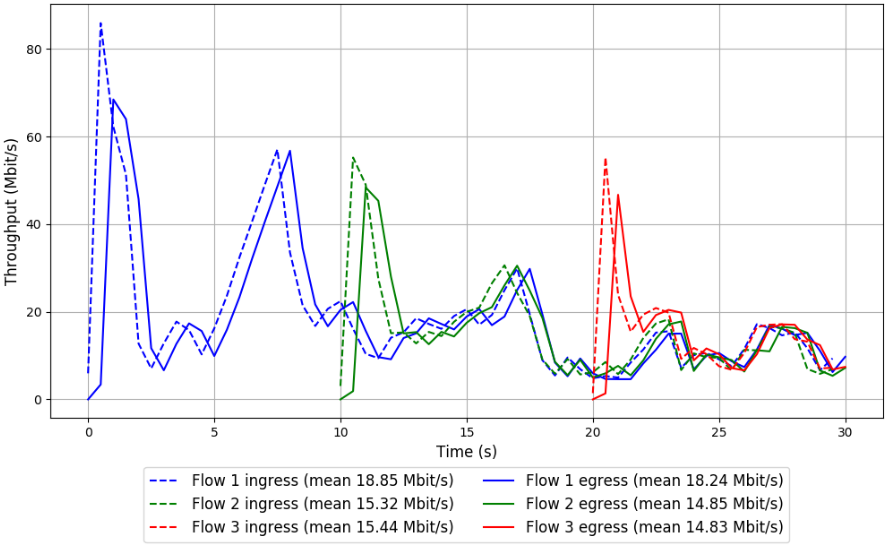


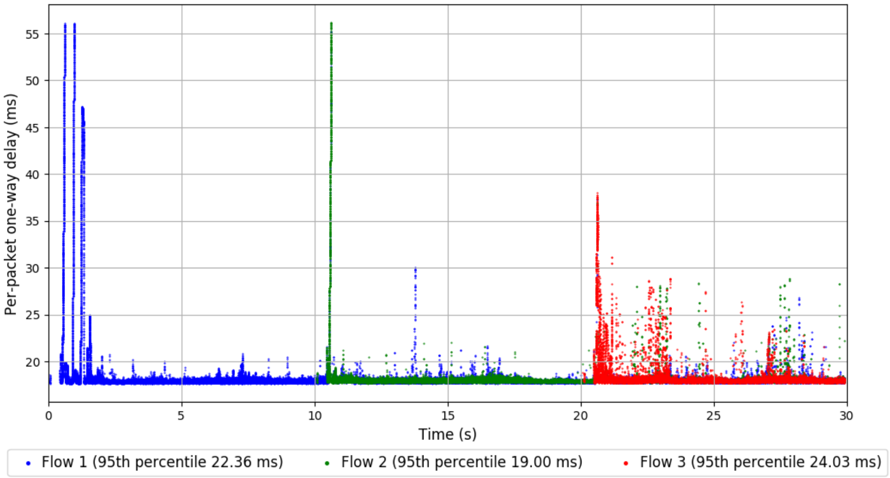
```
Run 4: Statistics of QUIC Cubic

Start at: 2018-05-30 17:01:12
End at: 2018-05-30 17:01:42
Local clock offset: 1.136 ms
Remote clock offset: -5.742 ms

# Below is generated by plot.py at 2018-05-30 19:11:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.00 Mbit/s
95th percentile per-packet one-way delay: 21.784 ms
Loss rate: 3.29%
-- Flow 1:
Average throughput: 18.24 Mbit/s
95th percentile per-packet one-way delay: 22.357 ms
Loss rate: 3.24%
-- Flow 2:
Average throughput: 14.85 Mbit/s
95th percentile per-packet one-way delay: 19.001 ms
Loss rate: 3.05%
-- Flow 3:
Average throughput: 14.83 Mbit/s
95th percentile per-packet one-way delay: 24.033 ms
Loss rate: 3.97%
```

Run 4: Report of QUIC Cubic — Data Link



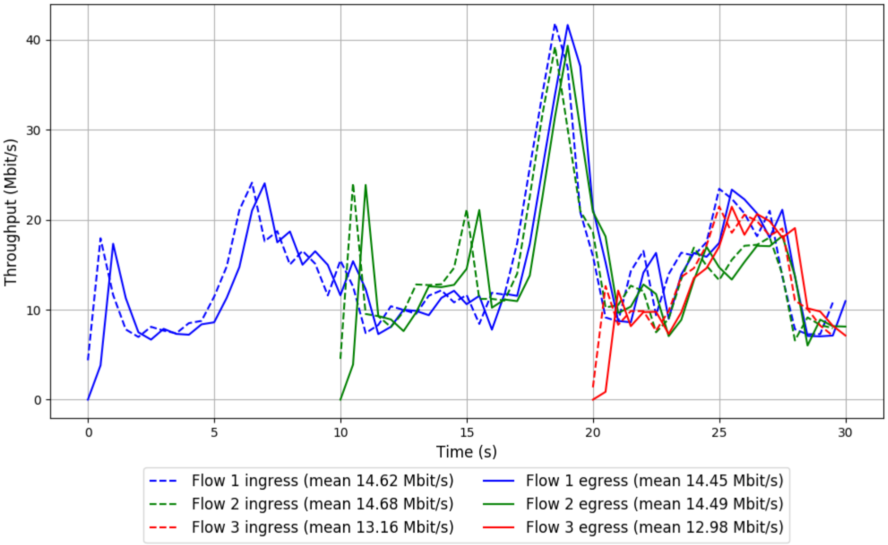


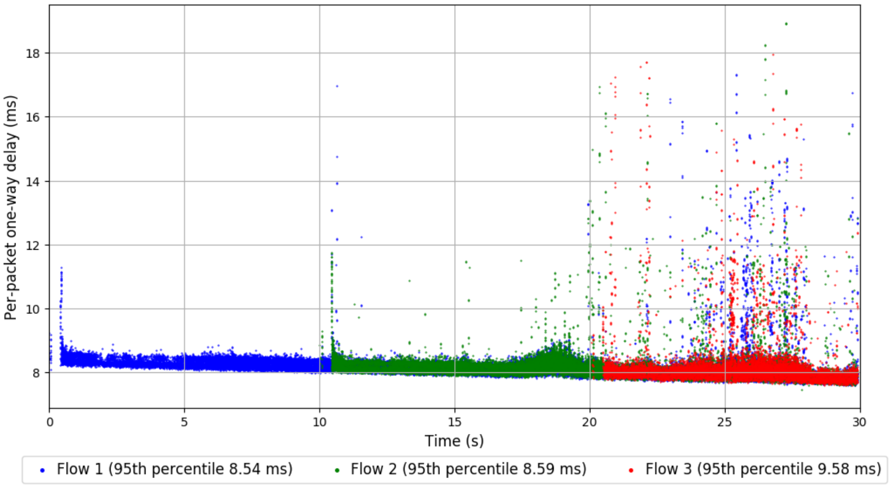
```
Run 5: Statistics of QUIC Cubic

Start at: 2018-05-30 17:20:14
End at: 2018-05-30 17:20:44
Local clock offset: 0.964 ms
Remote clock offset: -11.816 ms

# Below is generated by plot.py at 2018-05-30 19:11:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.36 Mbit/s
95th percentile per-packet one-way delay: 8.579 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 14.45 Mbit/s
95th percentile per-packet one-way delay: 8.543 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 14.49 Mbit/s
95th percentile per-packet one-way delay: 8.590 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 12.98 Mbit/s
95th percentile per-packet one-way delay: 9.581 ms
Loss rate: 1.39%
```

Run 5: Report of QUIC Cubic — Data Link



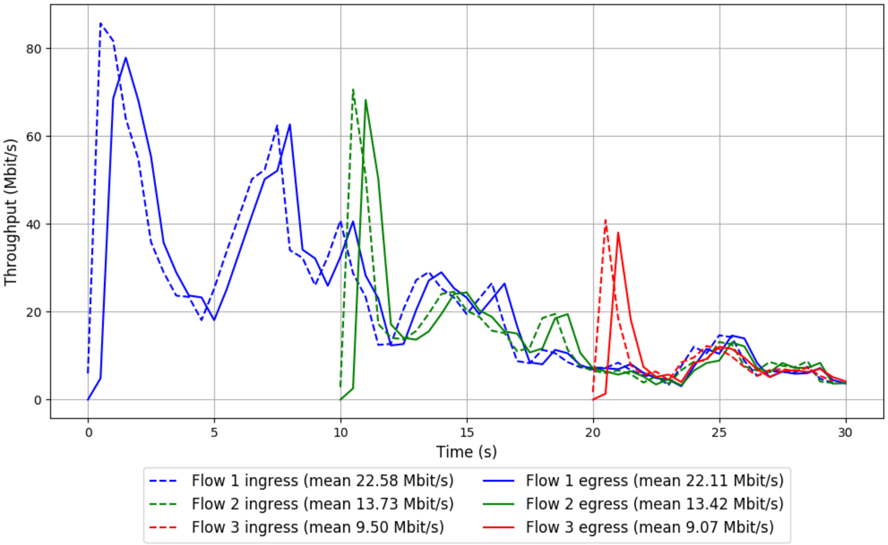


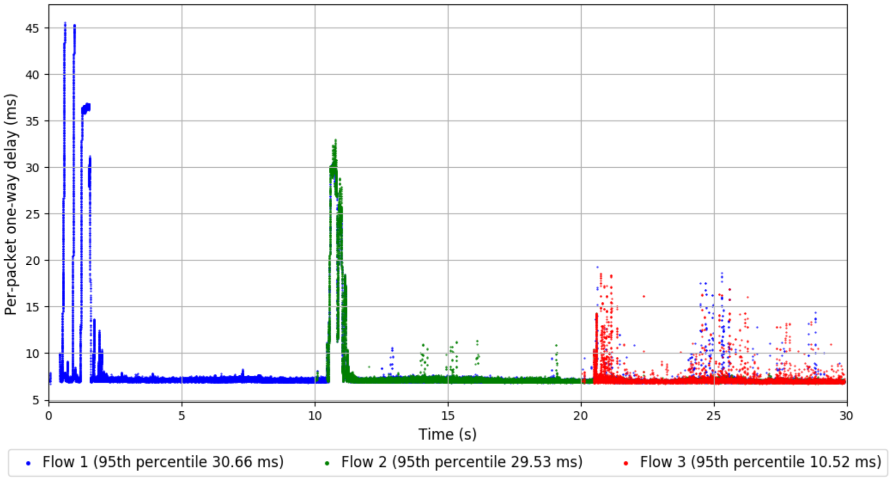
```
Run 6: Statistics of QUIC Cubic

Start at: 2018-05-30 17:39:38
End at: 2018-05-30 17:40:08
Local clock offset: 2.409 ms
Remote clock offset: -0.162 ms

# Below is generated by plot.py at 2018-05-30 19:11:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 34.03 Mbit/s
95th percentile per-packet one-way delay: 29.714 ms
Loss rate: 2.34%
-- Flow 1:
Average throughput: 22.11 Mbit/s
95th percentile per-packet one-way delay: 30.658 ms
Loss rate: 2.08%
-- Flow 2:
Average throughput: 13.42 Mbit/s
95th percentile per-packet one-way delay: 29.532 ms
Loss rate: 2.22%
-- Flow 3:
Average throughput: 9.07 Mbit/s
95th percentile per-packet one-way delay: 10.520 ms
Loss rate: 4.56%
```

Run 6: Report of QUIC Cubic — Data Link



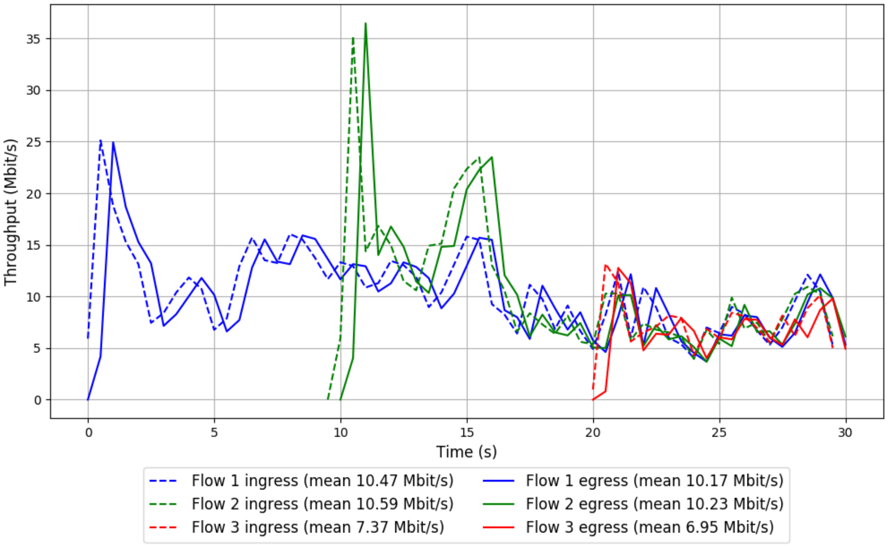


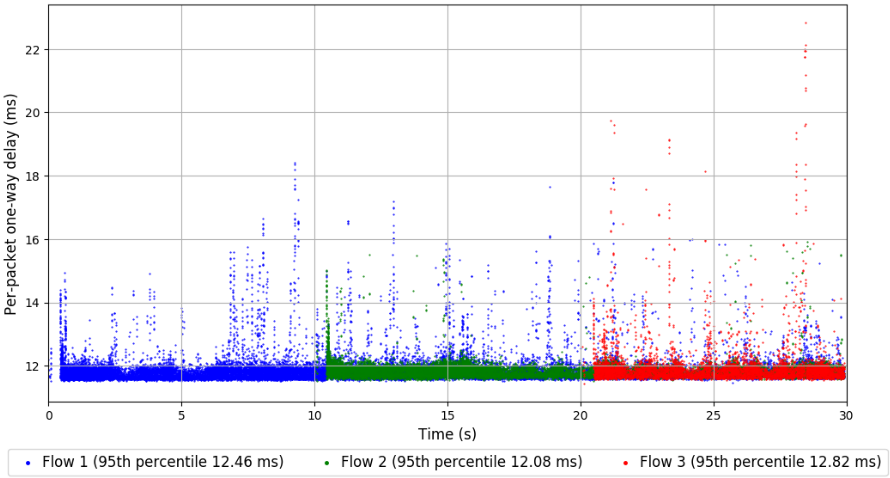
```
Run 7: Statistics of QUIC Cubic

Start at: 2018-05-30 17:58:25
End at: 2018-05-30 17:58:55
Local clock offset: -2.613 ms
Remote clock offset: -0.172 ms

# Below is generated by plot.py at 2018-05-30 19:11:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.26 Mbit/s
95th percentile per-packet one-way delay: 12.293 ms
Loss rate: 3.40%
-- Flow 1:
Average throughput: 10.17 Mbit/s
95th percentile per-packet one-way delay: 12.465 ms
Loss rate: 2.85%
-- Flow 2:
Average throughput: 10.23 Mbit/s
95th percentile per-packet one-way delay: 12.084 ms
Loss rate: 3.41%
-- Flow 3:
Average throughput: 6.95 Mbit/s
95th percentile per-packet one-way delay: 12.823 ms
Loss rate: 5.72%
```

Run 7: Report of QUIC Cubic — Data Link



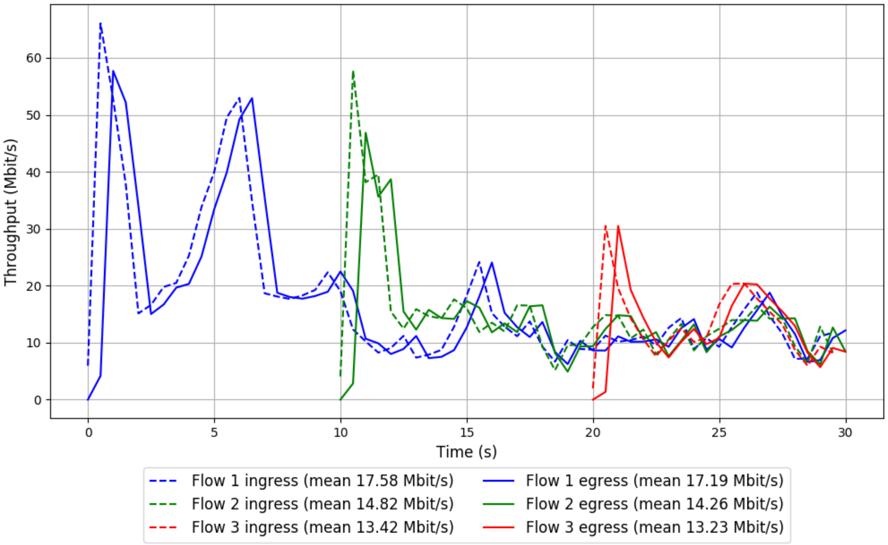


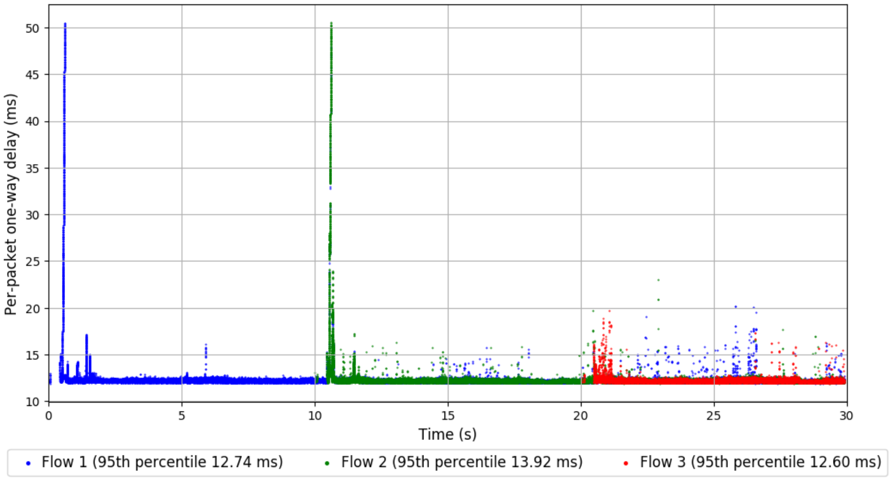
```
Run 8: Statistics of QUIC Cubic

Start at: 2018-05-30 18:17:03
End at: 2018-05-30 18:17:33
Local clock offset: -3.117 ms
Remote clock offset: 0.89 ms

# Below is generated by plot.py at 2018-05-30 19:11:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.03 Mbit/s
95th percentile per-packet one-way delay: 12.961 ms
Loss rate: 2.61%
-- Flow 1:
Average throughput: 17.19 Mbit/s
95th percentile per-packet one-way delay: 12.741 ms
Loss rate: 2.26%
-- Flow 2:
Average throughput: 14.26 Mbit/s
95th percentile per-packet one-way delay: 13.916 ms
Loss rate: 3.80%
-- Flow 3:
Average throughput: 13.23 Mbit/s
95th percentile per-packet one-way delay: 12.596 ms
Loss rate: 1.39%
```

Run 8: Report of QUIC Cubic — Data Link



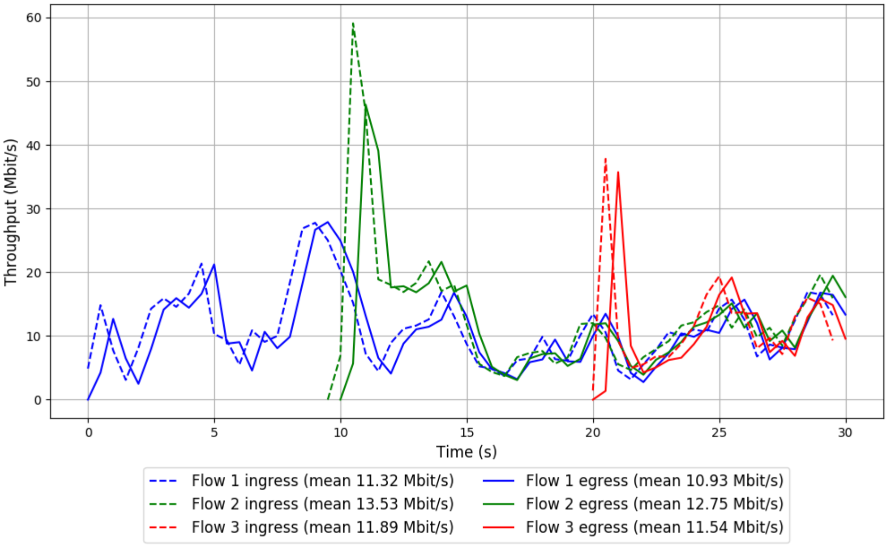


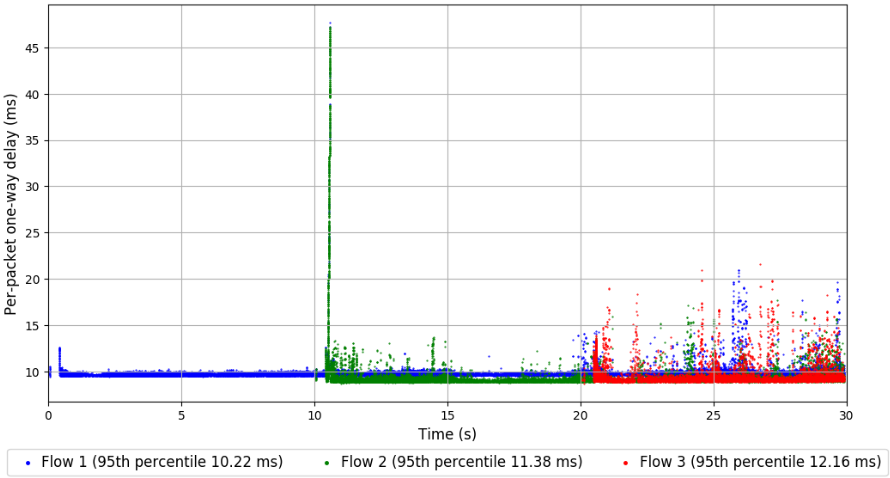
```
Run 9: Statistics of QUIC Cubic

Start at: 2018-05-30 18:36:01
End at: 2018-05-30 18:36:31
Local clock offset: -1.519 ms
Remote clock offset: -4.827 ms

# Below is generated by plot.py at 2018-05-30 19:11:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.21 Mbit/s
95th percentile per-packet one-way delay: 10.884 ms
Loss rate: 4.24%
-- Flow 1:
Average throughput: 10.93 Mbit/s
95th percentile per-packet one-way delay: 10.221 ms
Loss rate: 3.42%
-- Flow 2:
Average throughput: 12.75 Mbit/s
95th percentile per-packet one-way delay: 11.381 ms
Loss rate: 5.81%
-- Flow 3:
Average throughput: 11.54 Mbit/s
95th percentile per-packet one-way delay: 12.157 ms
Loss rate: 3.01%
```

Run 9: Report of QUIC Cubic — Data Link



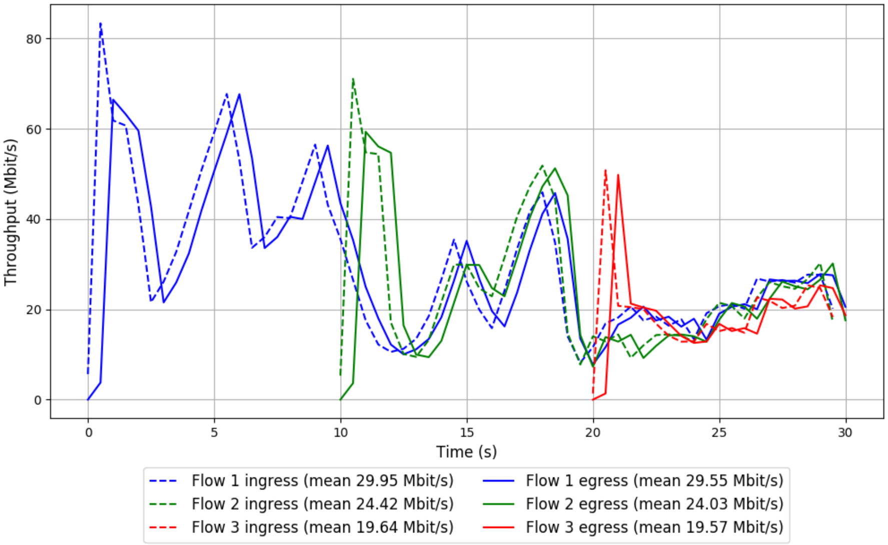


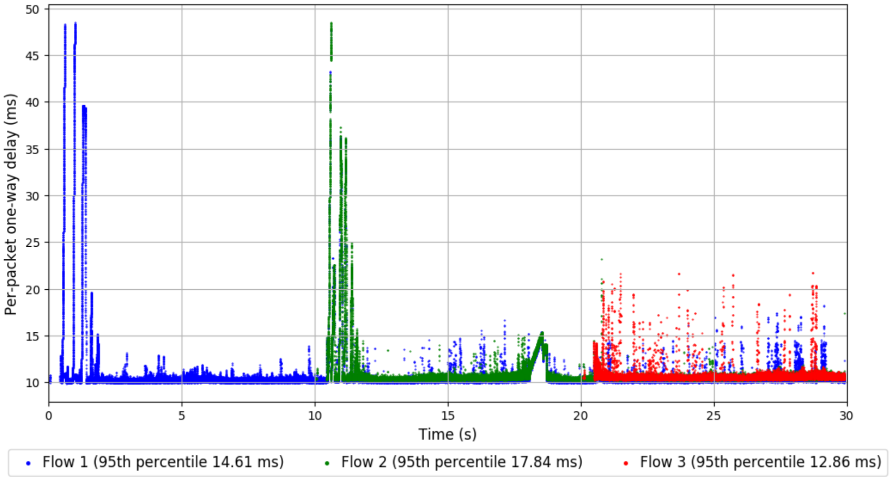
```
Run 10: Statistics of QUIC Cubic

Start at: 2018-05-30 18:54:30
End at: 2018-05-30 18:55:00
Local clock offset: -2.86 ms
Remote clock offset: -7.45 ms

# Below is generated by plot.py at 2018-05-30 19:11:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.97 Mbit/s
95th percentile per-packet one-way delay: 14.983 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 29.55 Mbit/s
95th percentile per-packet one-way delay: 14.611 ms
Loss rate: 1.35%
-- Flow 2:
Average throughput: 24.03 Mbit/s
95th percentile per-packet one-way delay: 17.838 ms
Loss rate: 1.57%
-- Flow 3:
Average throughput: 19.57 Mbit/s
95th percentile per-packet one-way delay: 12.857 ms
Loss rate: 0.34%
```

Run 10: Report of QUIC Cubic — Data Link



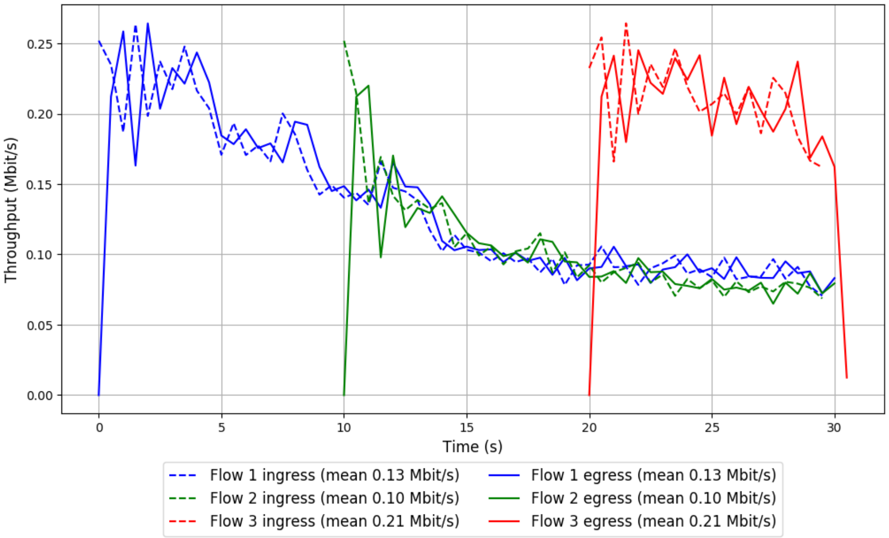


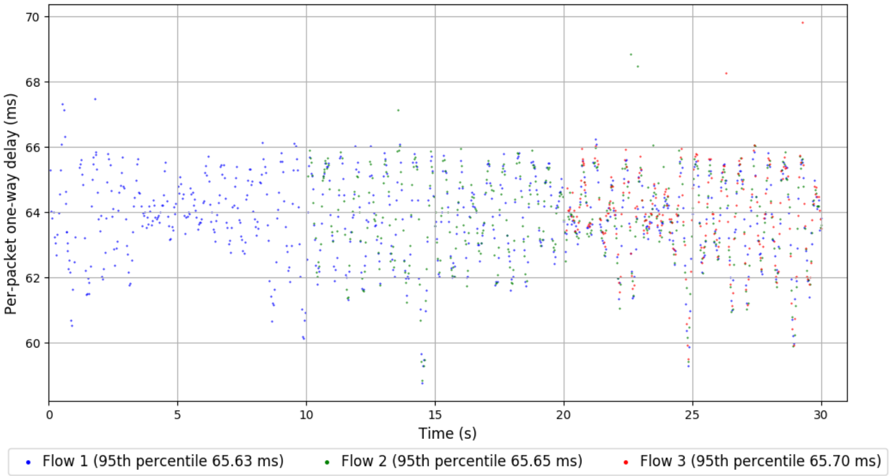
```
Run 1: Statistics of SCReAM

Start at: 2018-05-30 15:52:13
End at: 2018-05-30 15:52:43
Local clock offset: -1.357 ms
Remote clock offset: 7.705 ms

# Below is generated by plot.py at 2018-05-30 19:11:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 65.654 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 65.634 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 65.651 ms
Loss rate: 2.29%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 65.703 ms
Loss rate: 0.42%
```

Run 1: Report of SCReAM — Data Link



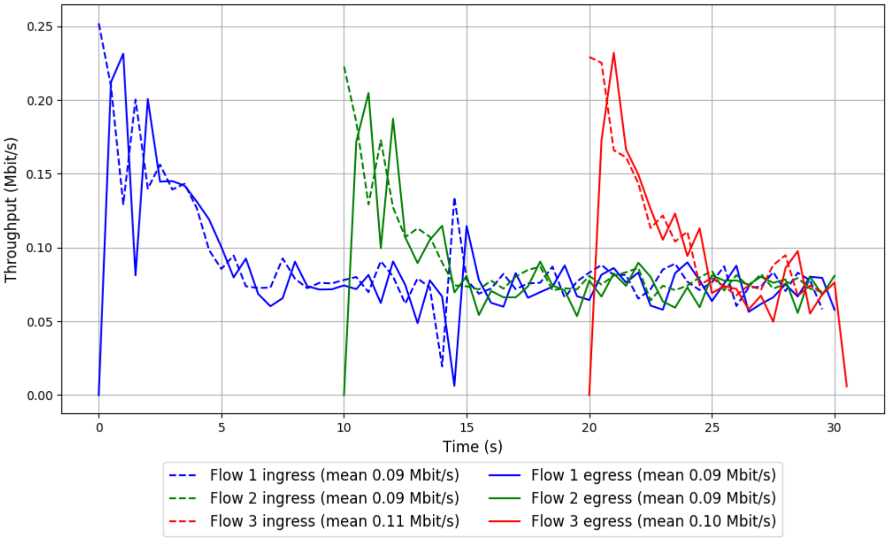


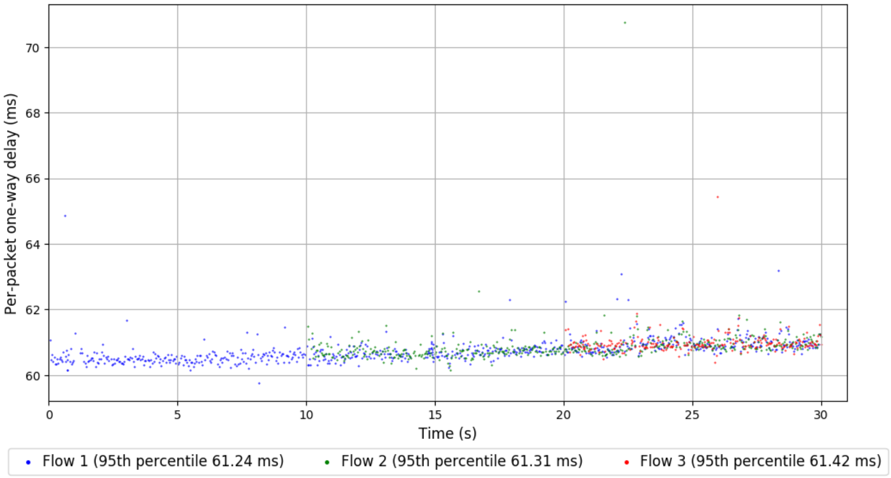
```
Run 2: Statistics of SCReAM

Start at: 2018-05-30 16:11:27
End at: 2018-05-30 16:11:57
Local clock offset: 0.59 ms
Remote clock offset: -1.247 ms

# Below is generated by plot.py at 2018-05-30 19:11:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 61.302 ms
Loss rate: 6.03%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 61.239 ms
Loss rate: 5.84%
-- Flow 2:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 61.311 ms
Loss rate: 5.91%
-- Flow 3:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 61.417 ms
Loss rate: 6.70%
```

Run 2: Report of SCReAM — Data Link



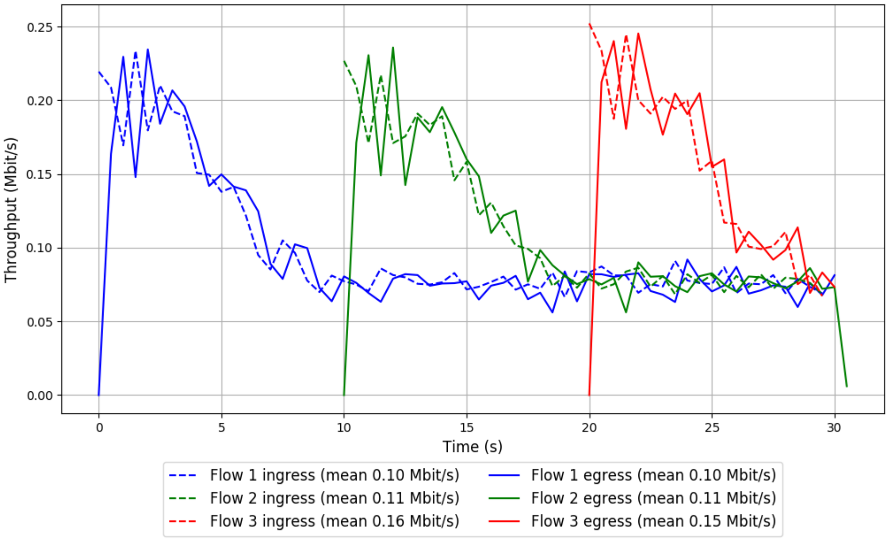


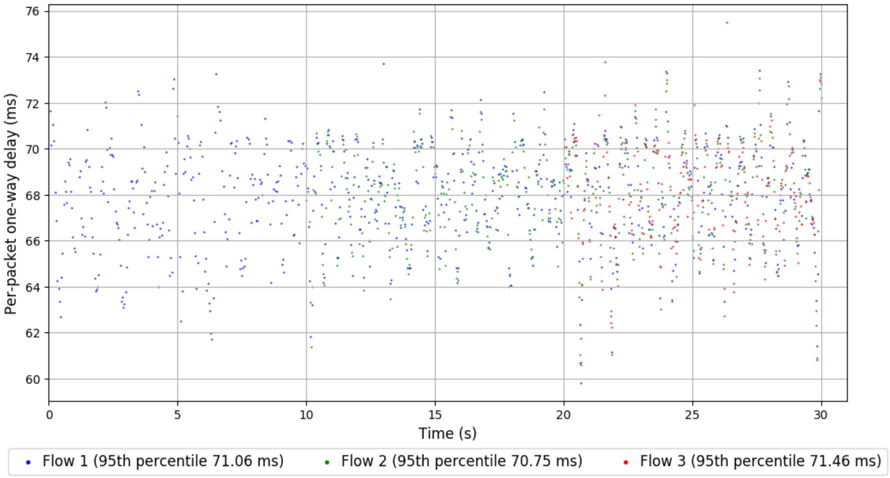
```
Run 3: Statistics of SCReAM

Start at: 2018-05-30 16:30:45
End at: 2018-05-30 16:31:15
Local clock offset: 0.621 ms
Remote clock offset: -2.352 ms

# Below is generated by plot.py at 2018-05-30 19:11:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 70.979 ms
Loss rate: 2.77%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 71.058 ms
Loss rate: 3.45%
-- Flow 2:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 70.753 ms
Loss rate: 2.22%
-- Flow 3:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 71.464 ms
Loss rate: 2.23%
```

Run 3: Report of SCReAM — Data Link



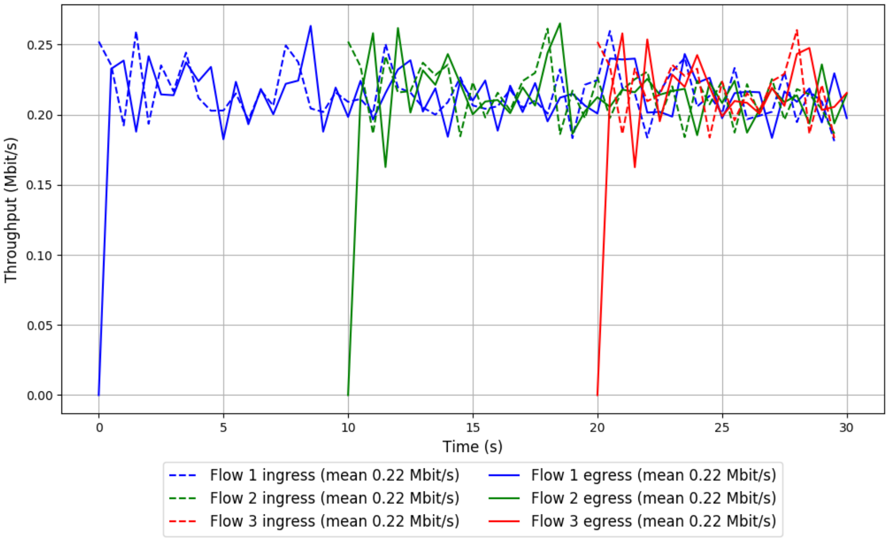


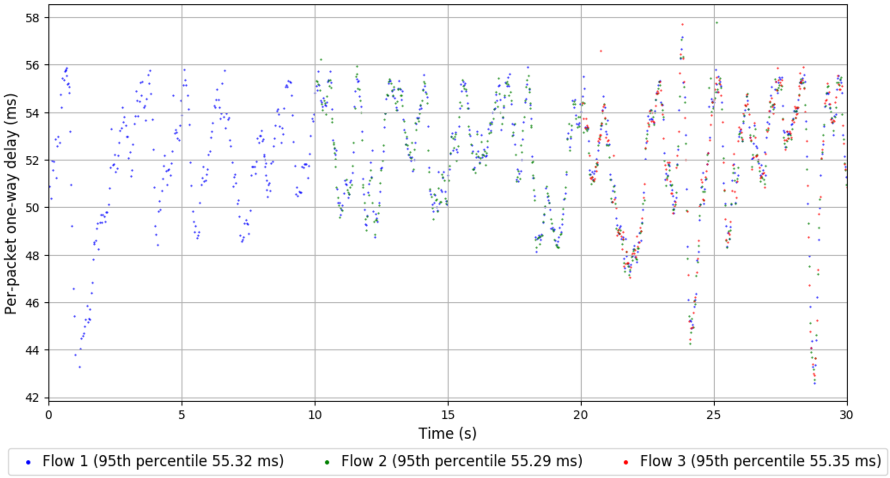
```
Run 4: Statistics of SCReAM

Start at: 2018-05-30 16:50:32
End at: 2018-05-30 16:51:02
Local clock offset: 2.95 ms
Remote clock offset: -14.225 ms

# Below is generated by plot.py at 2018-05-30 19:11:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 55.314 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 55.320 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 55.289 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 55.354 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link



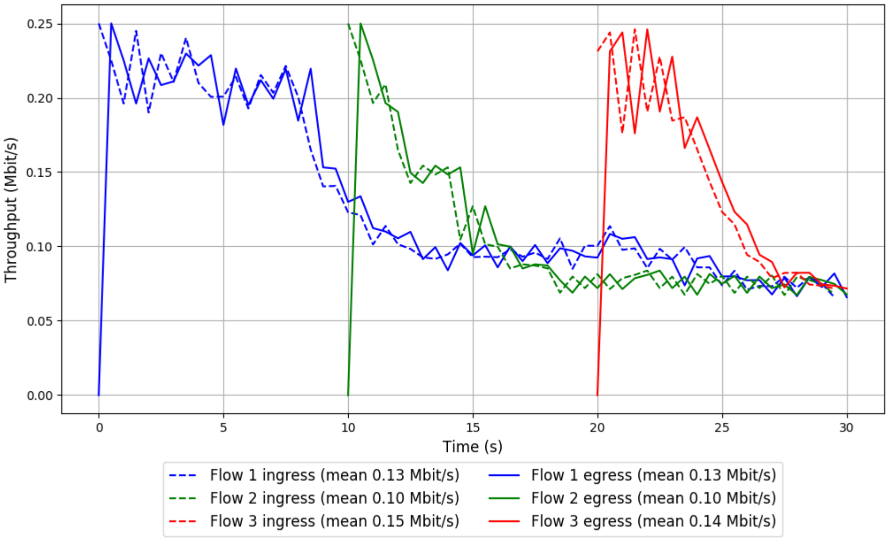


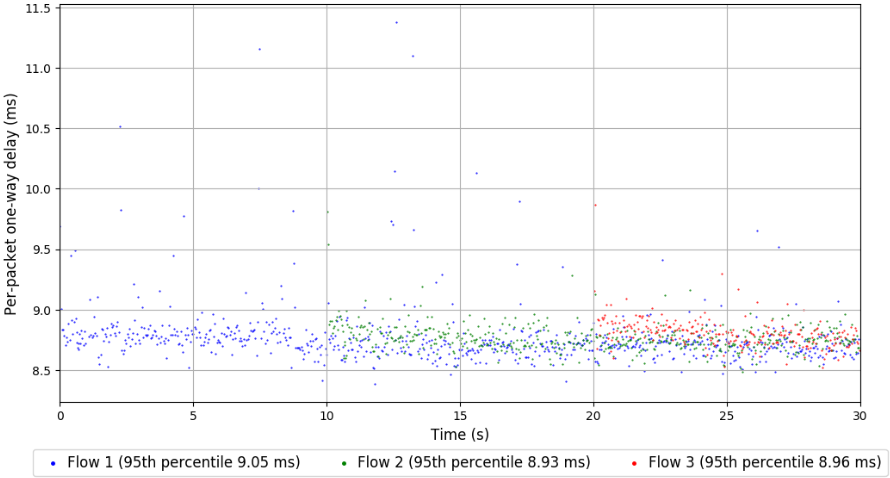
```
Run 5: Statistics of SCReAM

Start at: 2018-05-30 17:09:30
End at: 2018-05-30 17:10:00
Local clock offset: 0.9 ms
Remote clock offset: -16.071 ms

# Below is generated by plot.py at 2018-05-30 19:11:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 8.980 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 9.052 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 8.933 ms
Loss rate: 1.38%
-- Flow 3:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 8.963 ms
Loss rate: 0.86%
```

Run 5: Report of SCReAM — Data Link



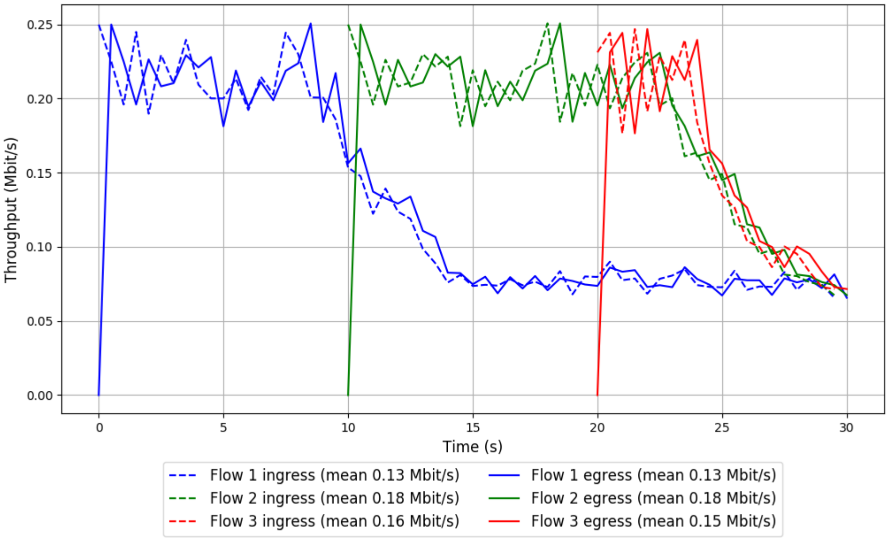


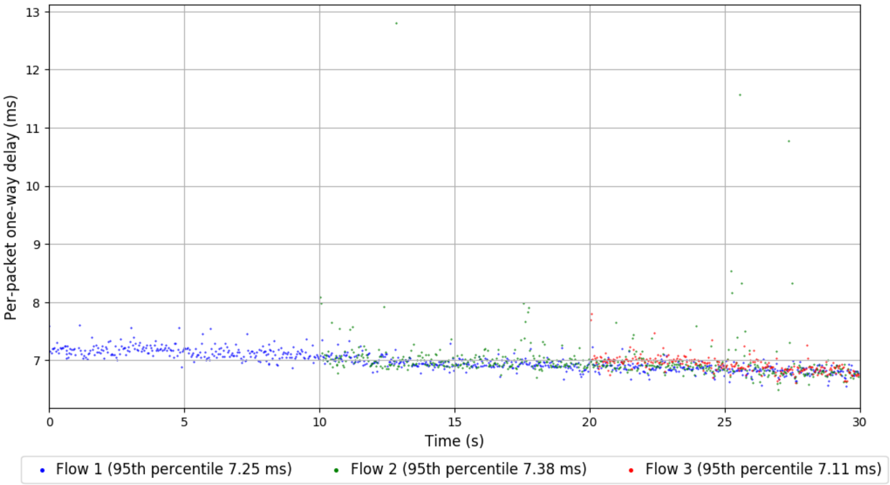
```
Run 6: Statistics of SCReAM

Start at: 2018-05-30 17:28:50
End at: 2018-05-30 17:29:20
Local clock offset: 2.039 ms
Remote clock offset: -4.601 ms

# Below is generated by plot.py at 2018-05-30 19:11:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 7.252 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 7.251 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 7.375 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 7.114 ms
Loss rate: 0.60%
```

Run 6: Report of SCReAM — Data Link



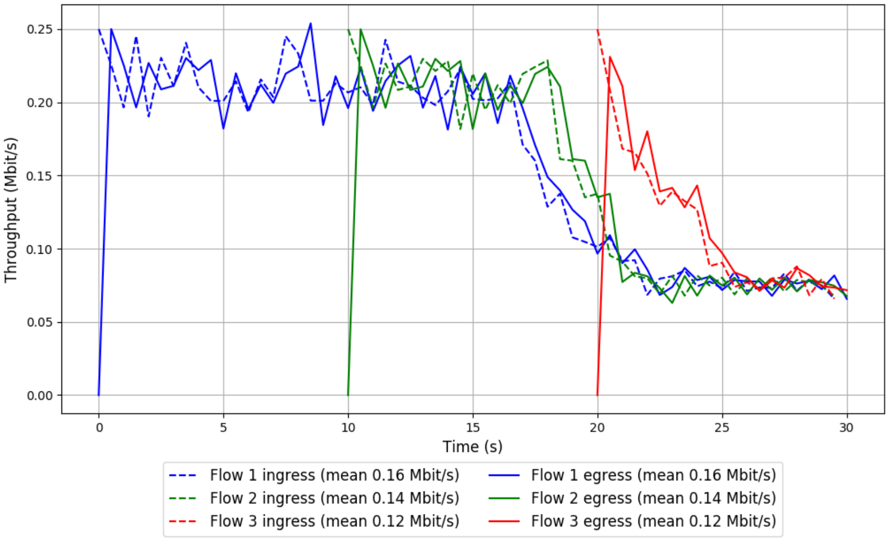


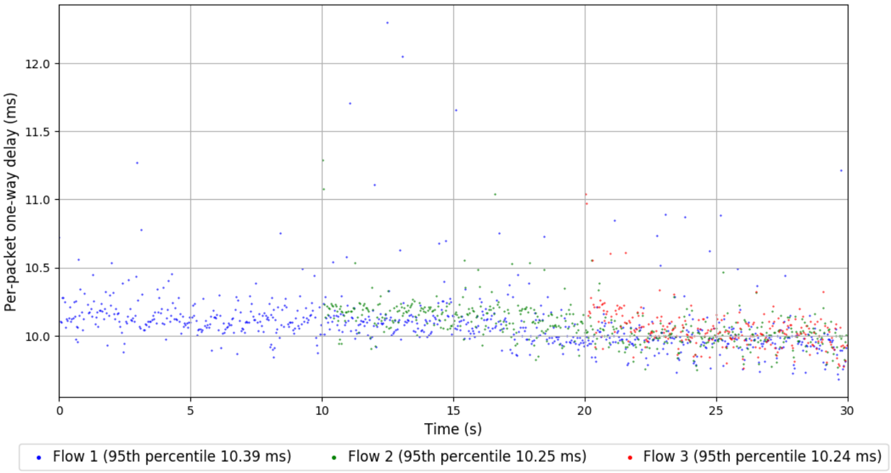
```
Run 7: Statistics of SCReAM

Start at: 2018-05-30 17:47:53
End at: 2018-05-30 17:48:23
Local clock offset: -0.412 ms
Remote clock offset: 1.794 ms

# Below is generated by plot.py at 2018-05-30 19:11:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 10.319 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 10.386 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 10.252 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 10.238 ms
Loss rate: 1.14%
```

Run 7: Report of SCReAM — Data Link



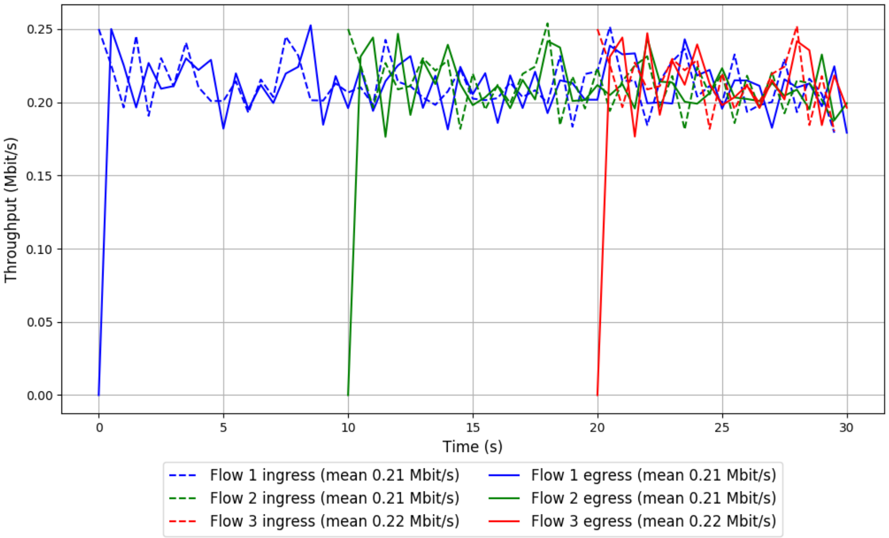


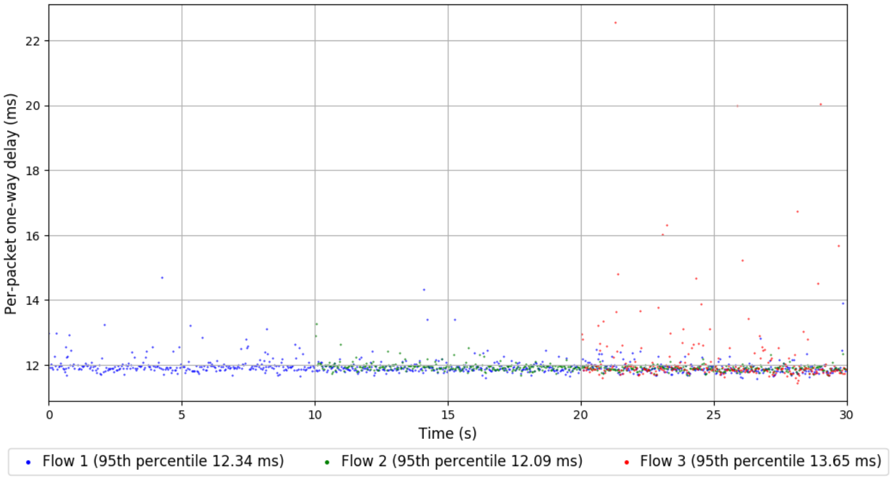
```
Run 8: Statistics of SCReAM

Start at: 2018-05-30 18:06:38
End at: 2018-05-30 18:07:08
Local clock offset: -2.455 ms
Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2018-05-30 19:11:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 12.407 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 12.340 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 12.091 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 13.654 ms
Loss rate: 0.00%
```

Run 8: Report of SCReAM — Data Link



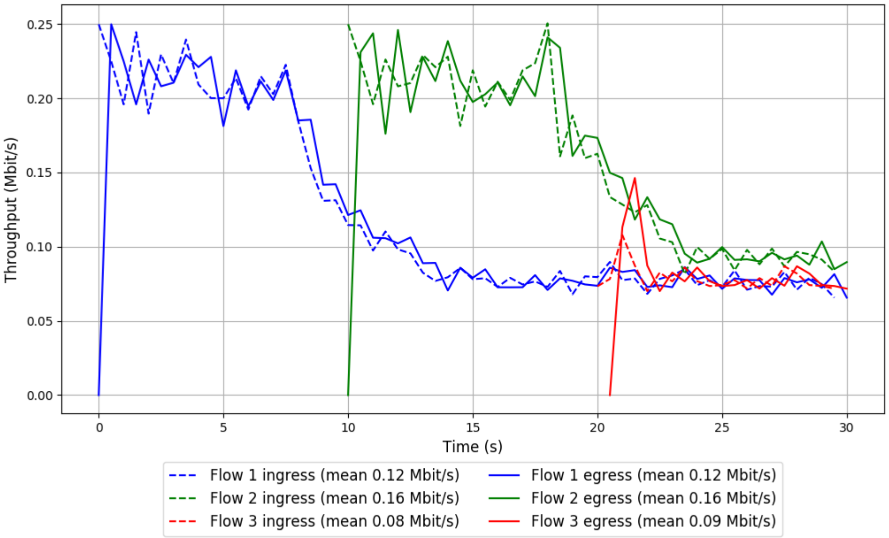


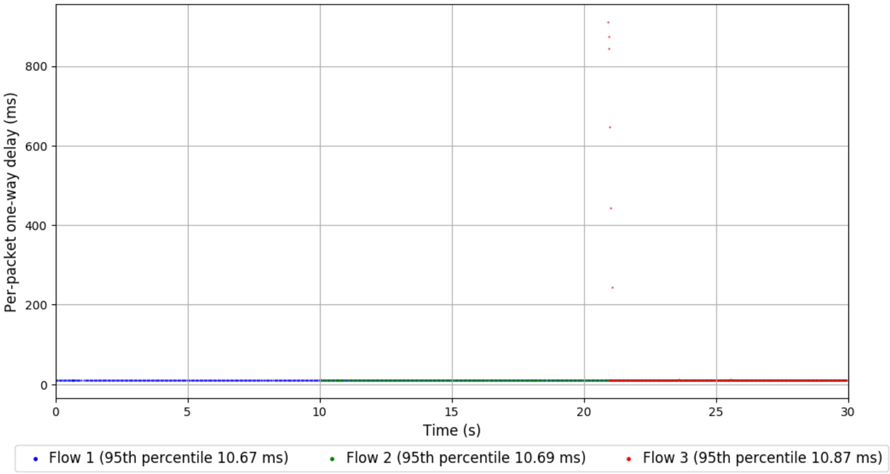
```
Run 9: Statistics of SCReAM

Start at: 2018-05-30 18:25:42
End at: 2018-05-30 18:26:12
Local clock offset: -1.539 ms
Remote clock offset: 0.898 ms

# Below is generated by plot.py at 2018-05-30 19:11:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 10.707 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 10.668 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 10.688 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 10.869 ms
Loss rate: 0.00%
```

Run 9: Report of SCReAM — Data Link



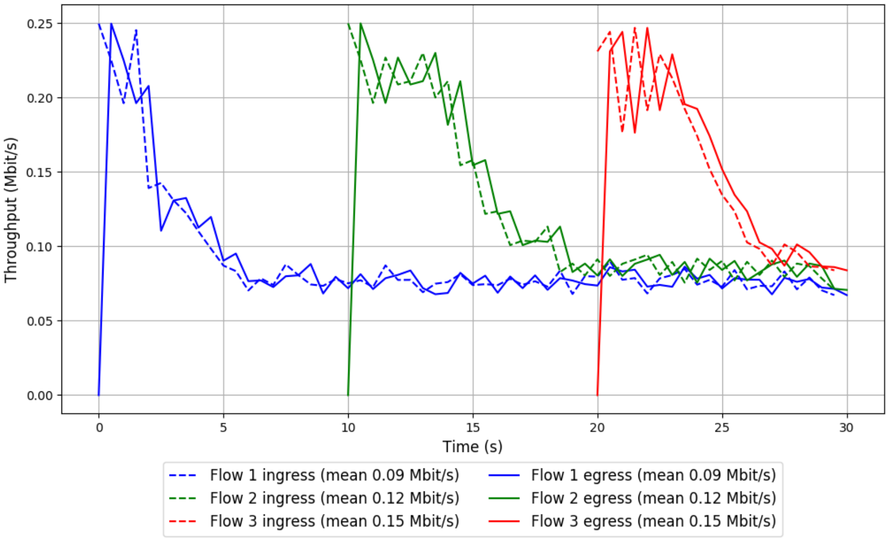


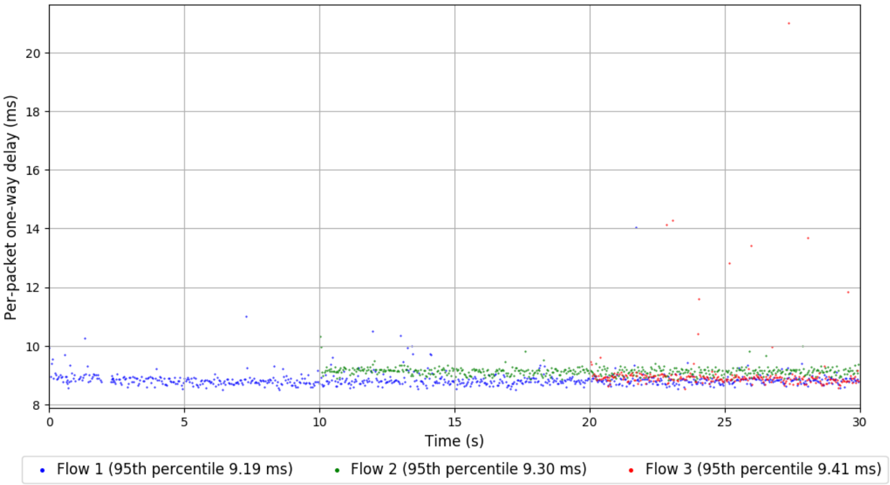
```
Run 10: Statistics of SCReAM

Start at: 2018-05-30 18:44:13
End at: 2018-05-30 18:44:43
Local clock offset: -1.598 ms
Remote clock offset: -6.837 ms

# Below is generated by plot.py at 2018-05-30 19:11:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 9.285 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 9.191 ms
Loss rate: 1.62%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 9.304 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 9.411 ms
Loss rate: 0.57%
```

Run 10: Report of SCReAM — Data Link



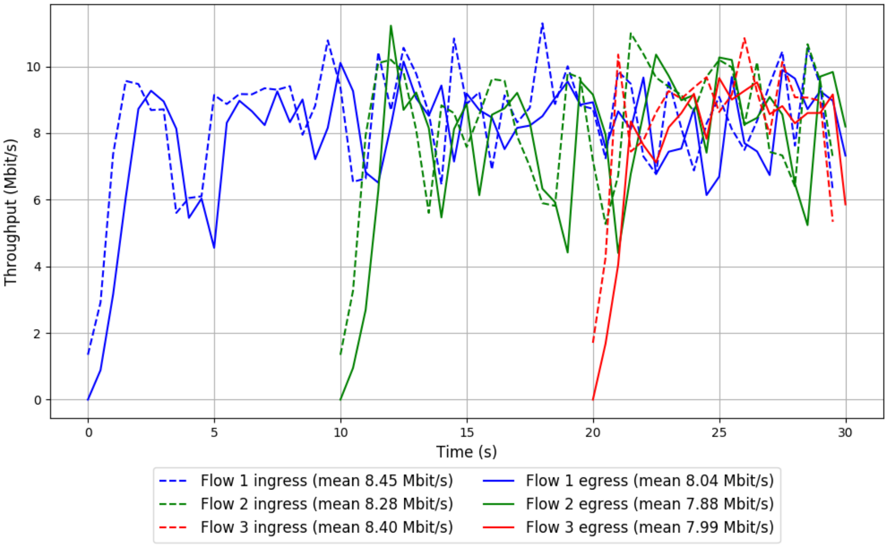


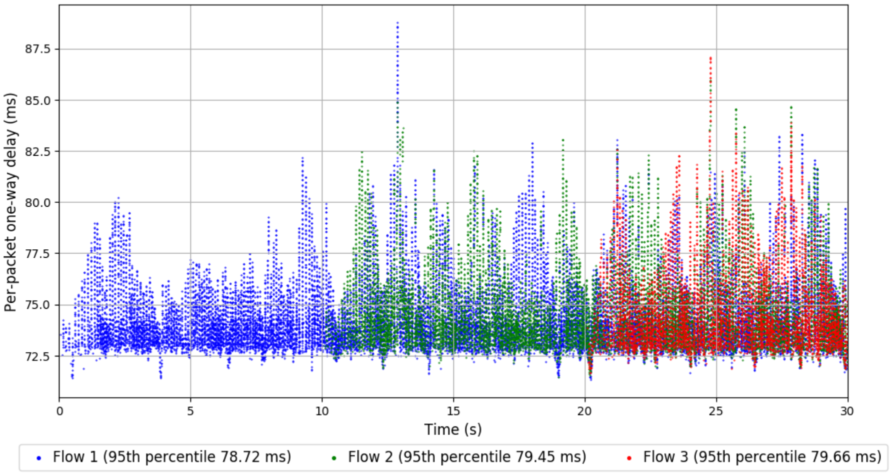
```
Run 1: Statistics of Sprout

Start at: 2018-05-30 16:05:00
End at: 2018-05-30 16:05:30
Local clock offset: 0.07 ms
Remote clock offset: 16.303 ms

# Below is generated by plot.py at 2018-05-30 19:11:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.91 Mbit/s
95th percentile per-packet one-way delay: 79.143 ms
Loss rate: 4.85%
-- Flow 1:
Average throughput: 8.04 Mbit/s
95th percentile per-packet one-way delay: 78.723 ms
Loss rate: 4.88%
-- Flow 2:
Average throughput: 7.88 Mbit/s
95th percentile per-packet one-way delay: 79.454 ms
Loss rate: 4.82%
-- Flow 3:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 79.658 ms
Loss rate: 4.80%
```

Run 1: Report of Sprout — Data Link



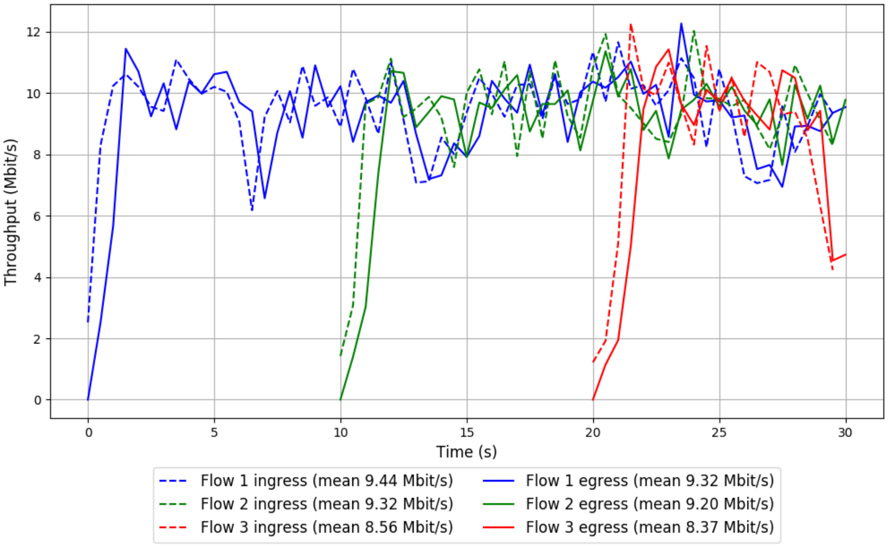


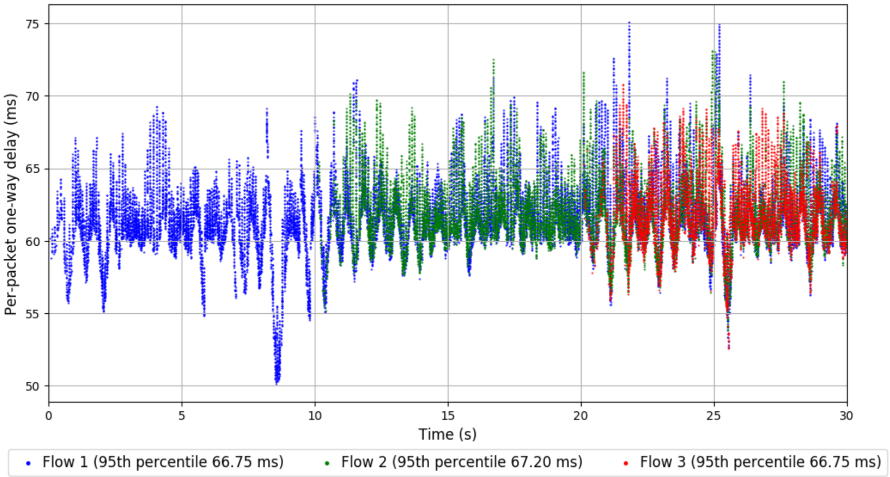
```
Run 2: Statistics of Sprout

Start at: 2018-05-30 16:24:46
End at: 2018-05-30 16:25:16
Local clock offset: -1.651 ms
Remote clock offset: -9.81 ms

# Below is generated by plot.py at 2018-05-30 19:11:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.20 Mbit/s
95th percentile per-packet one-way delay: 66.916 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 9.32 Mbit/s
95th percentile per-packet one-way delay: 66.747 ms
Loss rate: 1.20%
-- Flow 2:
Average throughput: 9.20 Mbit/s
95th percentile per-packet one-way delay: 67.200 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 8.37 Mbit/s
95th percentile per-packet one-way delay: 66.755 ms
Loss rate: 2.19%
```

Run 2: Report of Sprout — Data Link



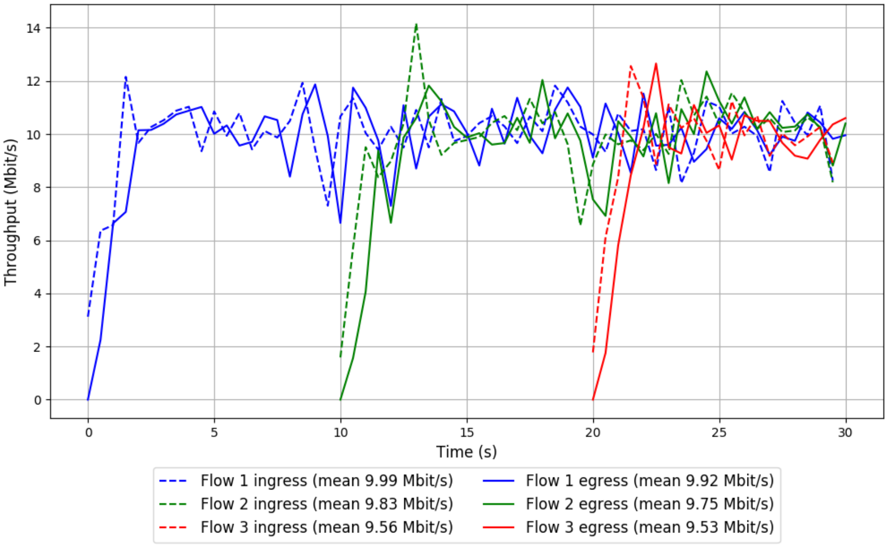


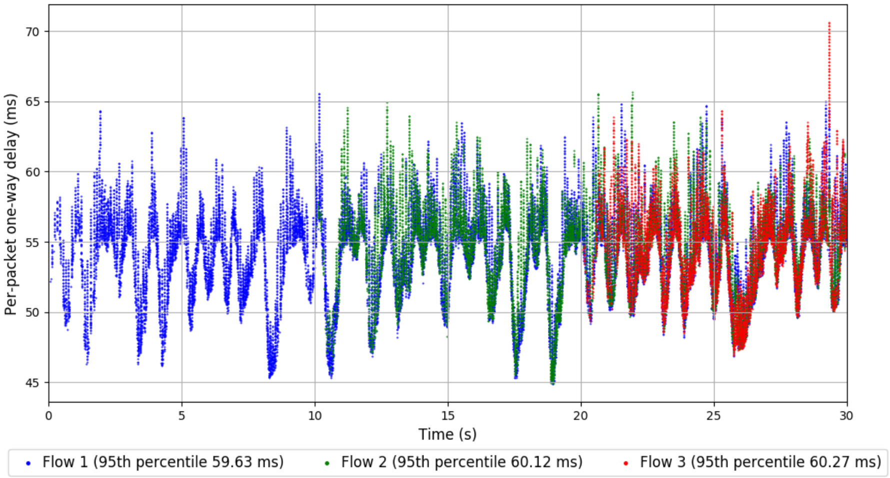
```
Run 3: Statistics of Sprout

Start at: 2018-05-30 16:43:50
End at: 2018-05-30 16:44:20
Local clock offset: 2.335 ms
Remote clock offset: -13.976 ms

# Below is generated by plot.py at 2018-05-30 19:11:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.55 Mbit/s
95th percentile per-packet one-way delay: 59.918 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 9.92 Mbit/s
95th percentile per-packet one-way delay: 59.630 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 9.75 Mbit/s
95th percentile per-packet one-way delay: 60.122 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 9.53 Mbit/s
95th percentile per-packet one-way delay: 60.272 ms
Loss rate: 0.33%
```

Run 3: Report of Sprout — Data Link



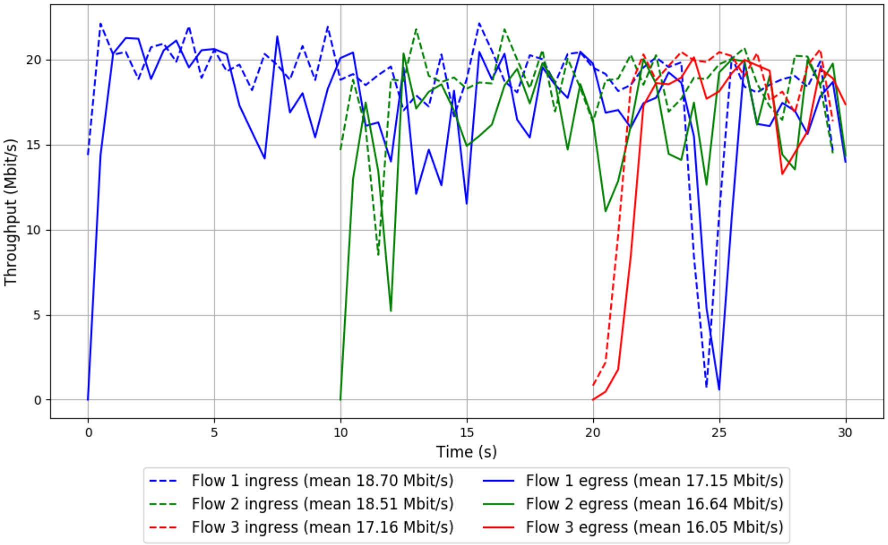


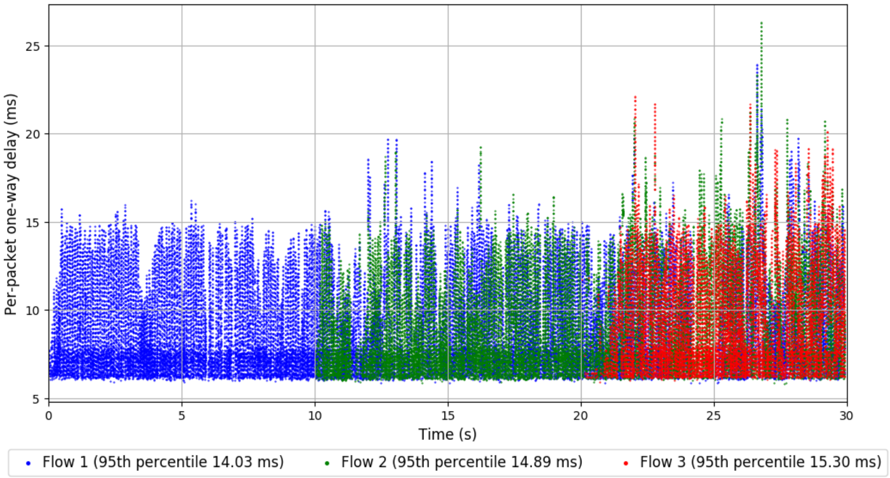
```
Run 4: Statistics of Sprout

Start at: 2018-05-30 17:03:31
End at: 2018-05-30 17:04:01
Local clock offset: 2.784 ms
Remote clock offset: -16.01 ms

# Below is generated by plot.py at 2018-05-30 19:11:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.53 Mbit/s
95th percentile per-packet one-way delay: 14.438 ms
Loss rate: 8.58%
-- Flow 1:
Average throughput: 17.15 Mbit/s
95th percentile per-packet one-way delay: 14.029 ms
Loss rate: 8.23%
-- Flow 2:
Average throughput: 16.64 Mbit/s
95th percentile per-packet one-way delay: 14.886 ms
Loss rate: 10.11%
-- Flow 3:
Average throughput: 16.05 Mbit/s
95th percentile per-packet one-way delay: 15.299 ms
Loss rate: 6.44%
```

Run 4: Report of Sprout — Data Link



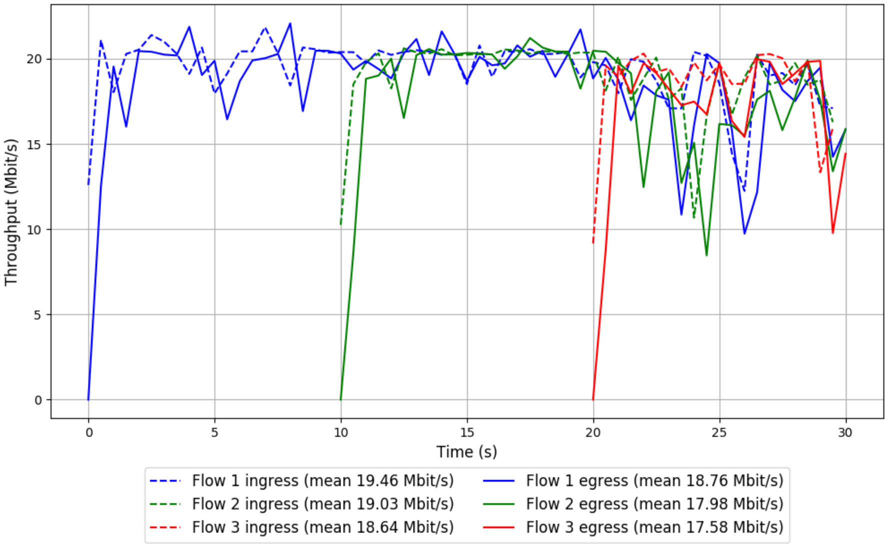


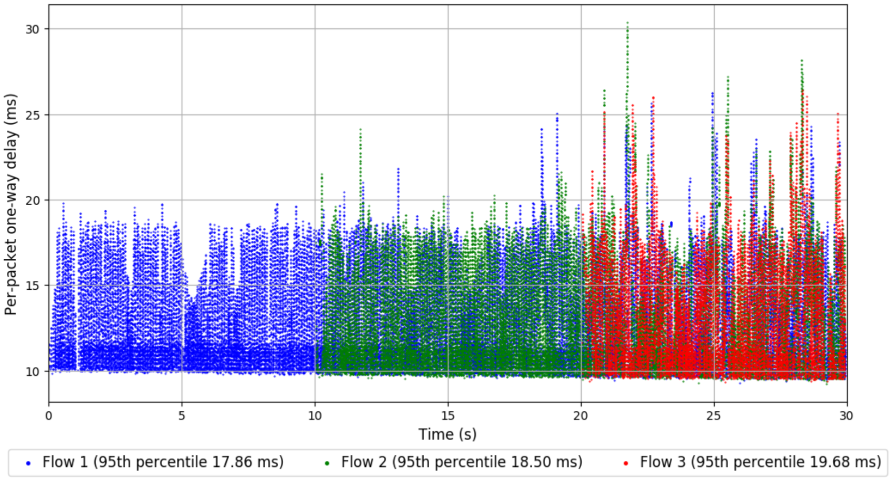
```
Run 5: Statistics of Sprout

Start at: 2018-05-30 17:22:36
End at: 2018-05-30 17:23:06
Local clock offset: -1.16 ms
Remote clock offset: -9.548 ms

# Below is generated by plot.py at 2018-05-30 19:11:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.52 Mbit/s
95th percentile per-packet one-way delay: 18.228 ms
Loss rate: 4.57%
-- Flow 1:
Average throughput: 18.76 Mbit/s
95th percentile per-packet one-way delay: 17.859 ms
Loss rate: 3.61%
-- Flow 2:
Average throughput: 17.98 Mbit/s
95th percentile per-packet one-way delay: 18.503 ms
Loss rate: 5.53%
-- Flow 3:
Average throughput: 17.58 Mbit/s
95th percentile per-packet one-way delay: 19.685 ms
Loss rate: 5.61%
```

Run 5: Report of Sprout — Data Link



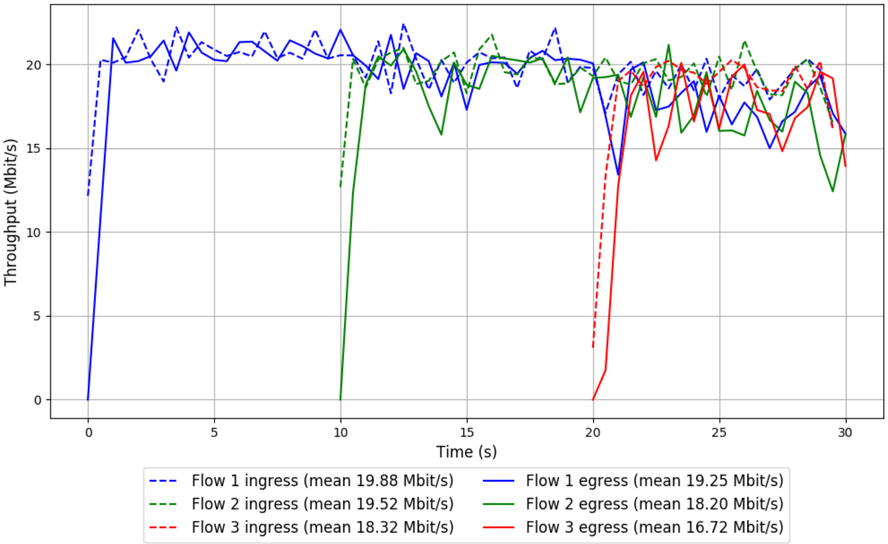


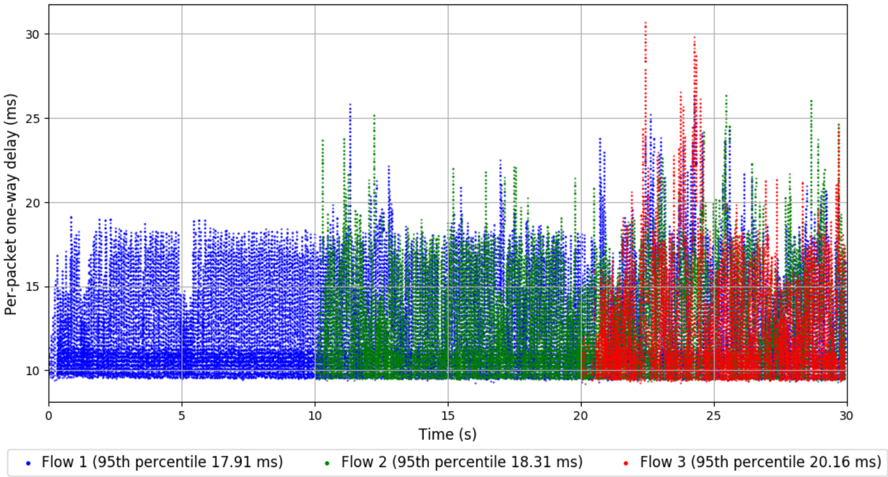
```
Run 6: Statistics of Sprout

Start at: 2018-05-30 17:41:59
End at: 2018-05-30 17:42:29
Local clock offset: -0.416 ms
Remote clock offset: 0.136 ms

# Below is generated by plot.py at 2018-05-30 19:11:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.87 Mbit/s
95th percentile per-packet one-way delay: 18.191 ms
Loss rate: 5.22%
-- Flow 1:
Average throughput: 19.25 Mbit/s
95th percentile per-packet one-way delay: 17.914 ms
Loss rate: 3.17%
-- Flow 2:
Average throughput: 18.20 Mbit/s
95th percentile per-packet one-way delay: 18.306 ms
Loss rate: 6.72%
-- Flow 3:
Average throughput: 16.72 Mbit/s
95th percentile per-packet one-way delay: 20.165 ms
Loss rate: 8.69%
```

Run 6: Report of Sprout — Data Link



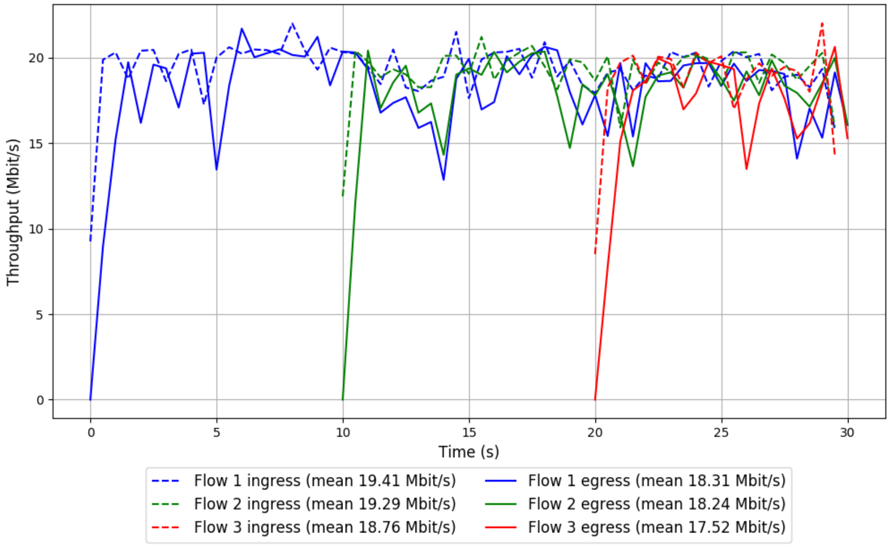


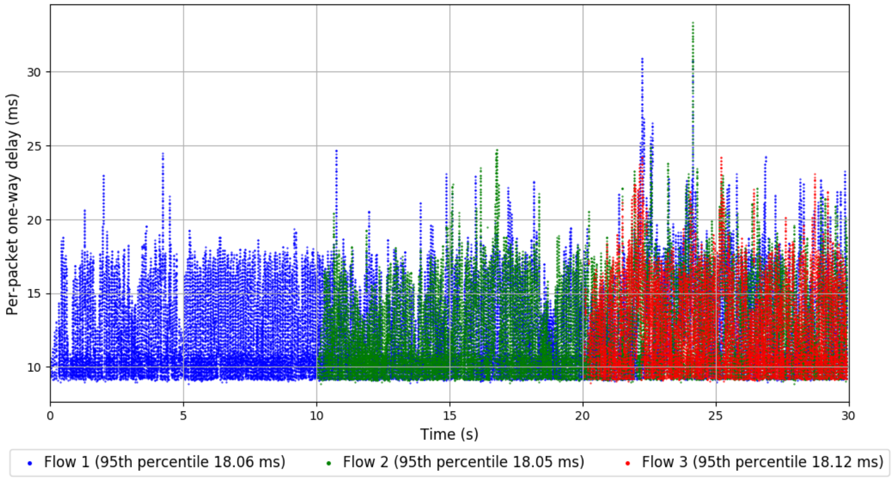
```
Run 7: Statistics of Sprout

Start at: 2018-05-30 18:00:45
End at: 2018-05-30 18:01:15
Local clock offset: -0.529 ms
Remote clock offset: -0.804 ms

# Below is generated by plot.py at 2018-05-30 19:11:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.23 Mbit/s
95th percentile per-packet one-way delay: 18.070 ms
Loss rate: 5.72%
-- Flow 1:
Average throughput: 18.31 Mbit/s
95th percentile per-packet one-way delay: 18.056 ms
Loss rate: 5.66%
-- Flow 2:
Average throughput: 18.24 Mbit/s
95th percentile per-packet one-way delay: 18.053 ms
Loss rate: 5.36%
-- Flow 3:
Average throughput: 17.52 Mbit/s
95th percentile per-packet one-way delay: 18.117 ms
Loss rate: 6.62%
```

Run 7: Report of Sprout — Data Link



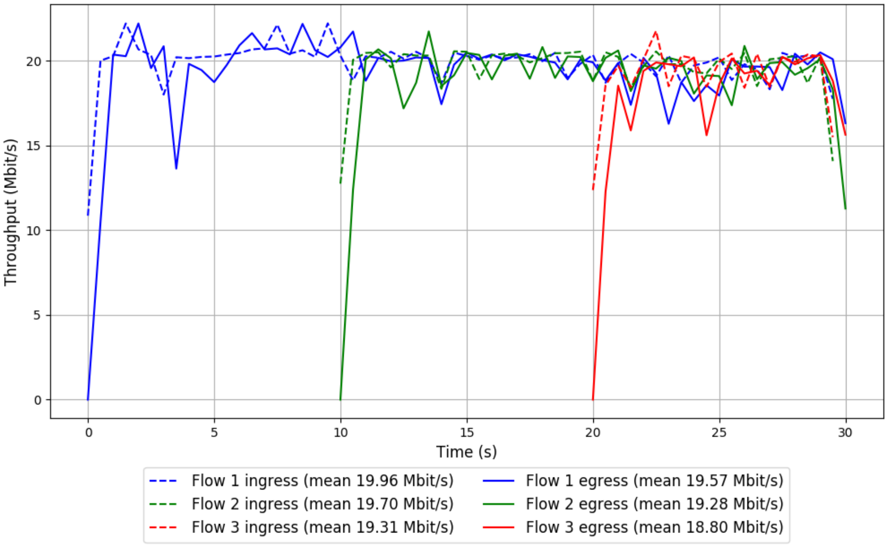


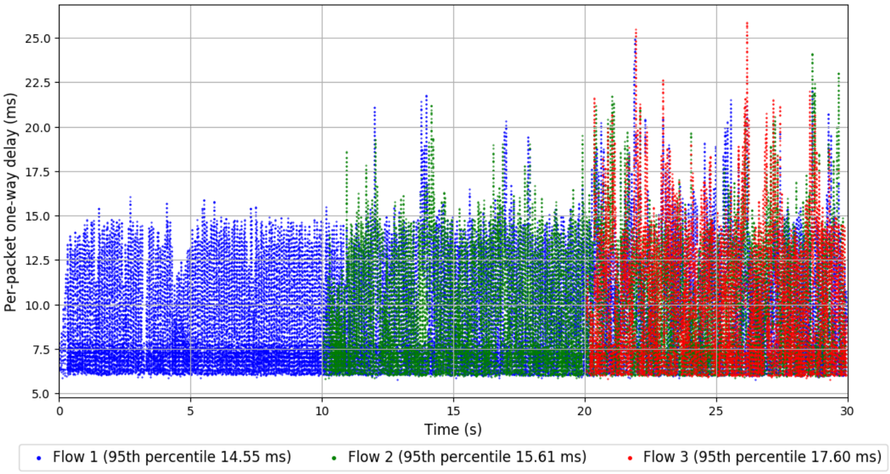
```
Run 8: Statistics of Sprout

Start at: 2018-05-30 18:19:20
End at: 2018-05-30 18:19:51
Local clock offset: -3.782 ms
Remote clock offset: -5.476 ms

# Below is generated by plot.py at 2018-05-30 19:11:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.61 Mbit/s
95th percentile per-packet one-way delay: 15.499 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 19.57 Mbit/s
95th percentile per-packet one-way delay: 14.550 ms
Loss rate: 1.94%
-- Flow 2:
Average throughput: 19.28 Mbit/s
95th percentile per-packet one-way delay: 15.614 ms
Loss rate: 2.13%
-- Flow 3:
Average throughput: 18.80 Mbit/s
95th percentile per-packet one-way delay: 17.604 ms
Loss rate: 2.61%
```

Run 8: Report of Sprout — Data Link



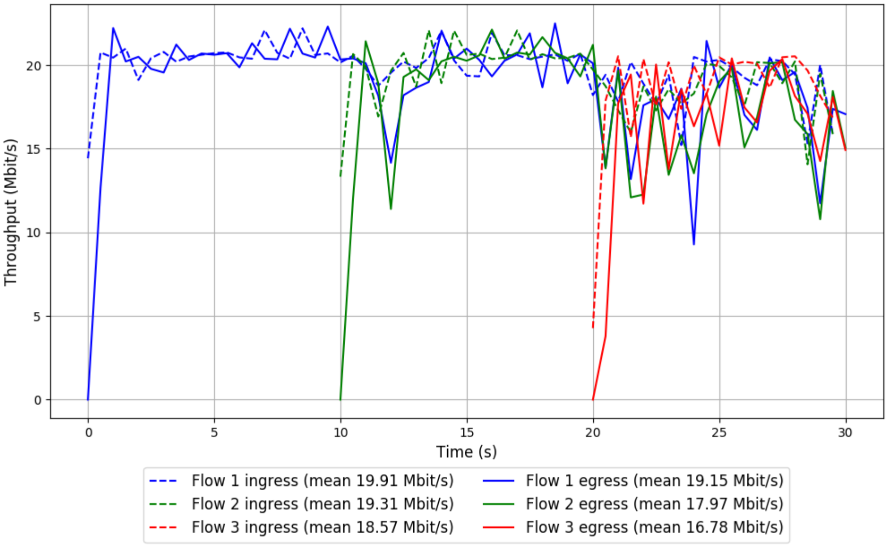


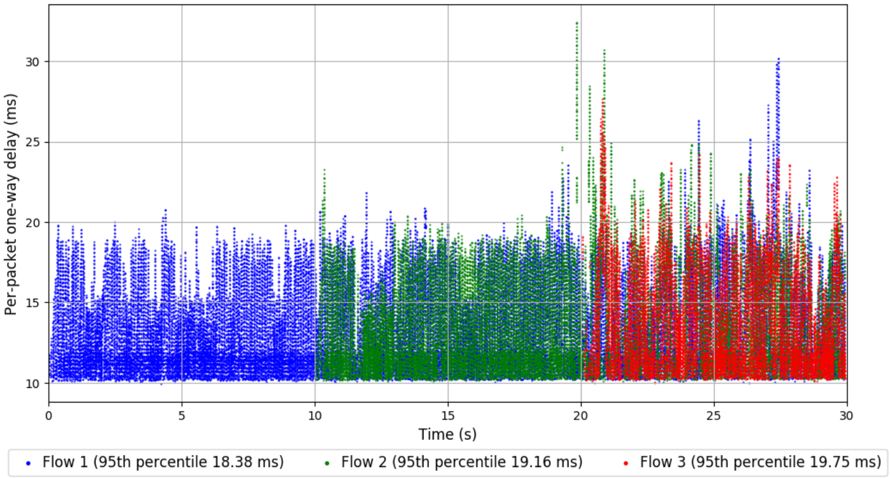
```
Run 9: Statistics of Sprout

Start at: 2018-05-30 18:38:19
End at: 2018-05-30 18:38:49
Local clock offset: -3.021 ms
Remote clock offset: -5.541 ms

# Below is generated by plot.py at 2018-05-30 19:11:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.64 Mbit/s
95th percentile per-packet one-way delay: 18.808 ms
Loss rate: 5.76%
-- Flow 1:
Average throughput: 19.15 Mbit/s
95th percentile per-packet one-way delay: 18.383 ms
Loss rate: 3.80%
-- Flow 2:
Average throughput: 17.97 Mbit/s
95th percentile per-packet one-way delay: 19.161 ms
Loss rate: 6.93%
-- Flow 3:
Average throughput: 16.78 Mbit/s
95th percentile per-packet one-way delay: 19.747 ms
Loss rate: 9.63%
```

Run 9: Report of Sprout — Data Link



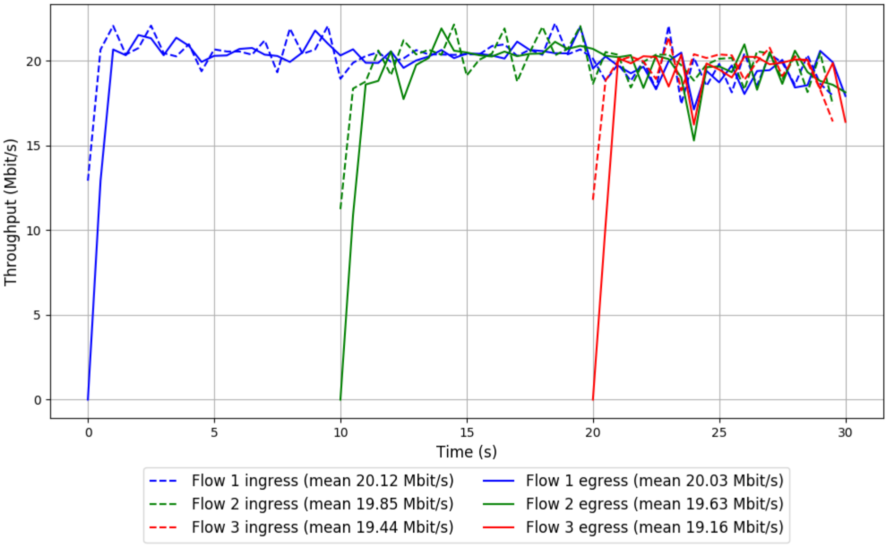


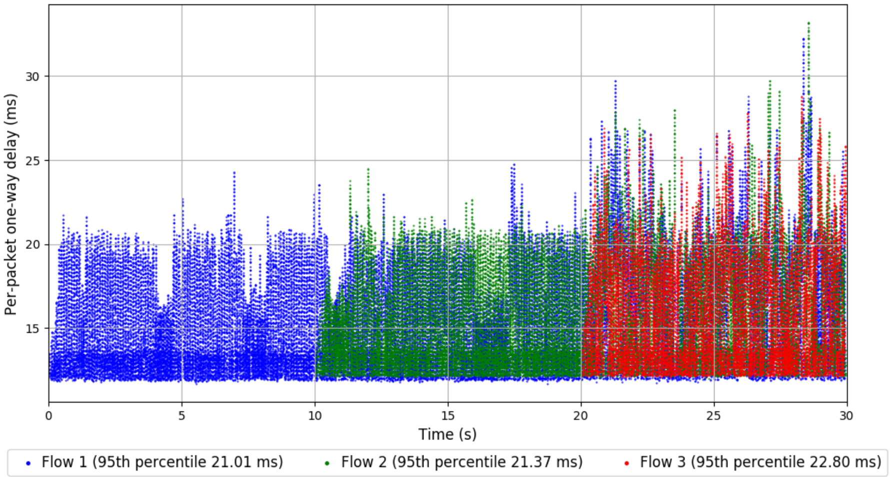
```
Run 10: Statistics of Sprout

Start at: 2018-05-30 18:56:49
End at: 2018-05-30 18:57:19
Local clock offset: -3.783 ms
Remote clock offset: -6.591 ms

# Below is generated by plot.py at 2018-05-30 19:11:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.41 Mbit/s
95th percentile per-packet one-way delay: 21.516 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 20.03 Mbit/s
95th percentile per-packet one-way delay: 21.006 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 19.63 Mbit/s
95th percentile per-packet one-way delay: 21.370 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 19.16 Mbit/s
95th percentile per-packet one-way delay: 22.798 ms
Loss rate: 1.34%
```

Run 10: Report of Sprout — Data Link



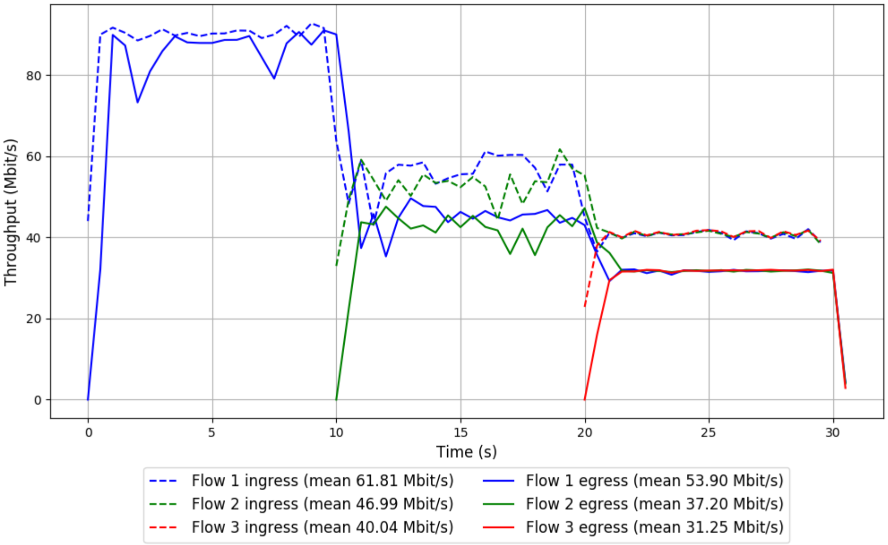


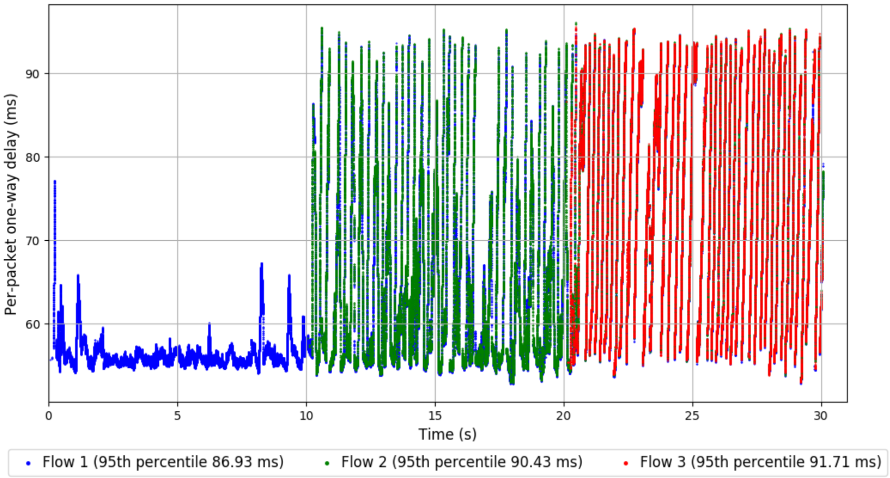
```
Run 1: Statistics of TaoVA-100x

Start at: 2018-05-30 15:50:57
End at: 2018-05-30 15:51:27
Local clock offset: -1.567 ms
Remote clock offset: -1.445 ms

# Below is generated by plot.py at 2018-05-30 19:13:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.04 Mbit/s
95th percentile per-packet one-way delay: 89.501 ms
Loss rate: 16.27%
-- Flow 1:
Average throughput: 53.90 Mbit/s
95th percentile per-packet one-way delay: 86.933 ms
Loss rate: 12.72%
-- Flow 2:
Average throughput: 37.20 Mbit/s
95th percentile per-packet one-way delay: 90.429 ms
Loss rate: 20.75%
-- Flow 3:
Average throughput: 31.25 Mbit/s
95th percentile per-packet one-way delay: 91.713 ms
Loss rate: 22.18%
```

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



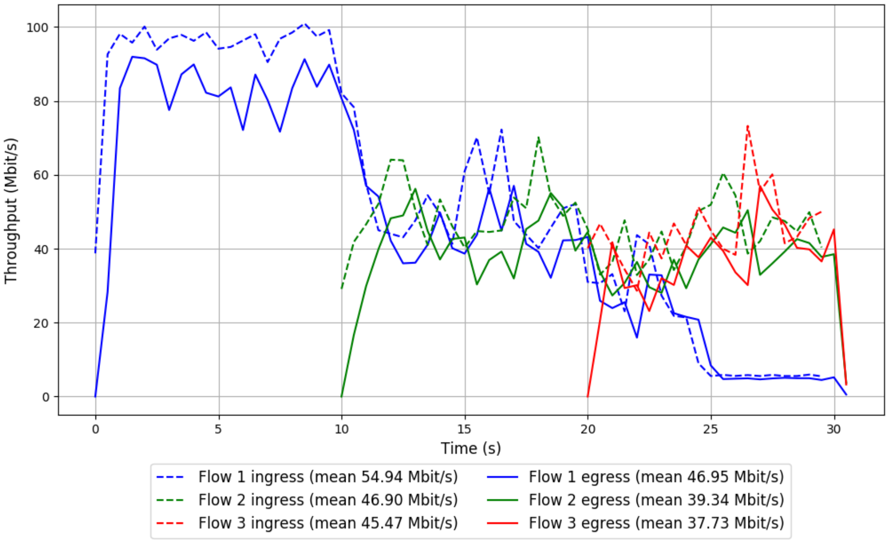


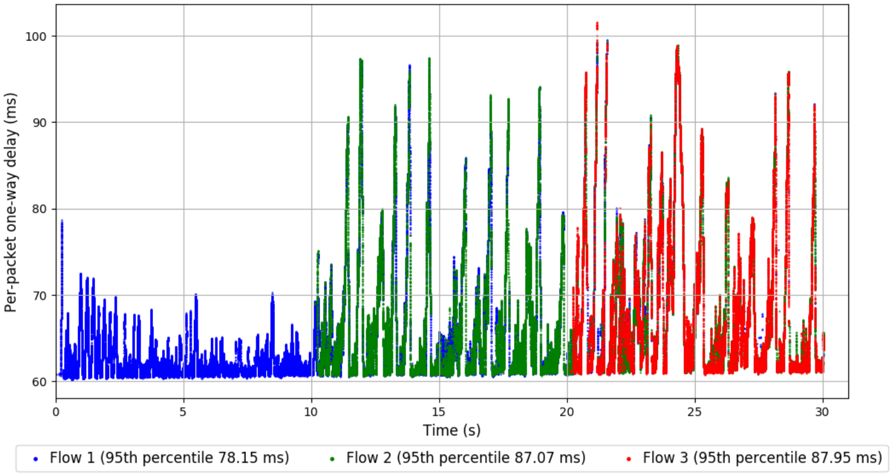
```
Run 2: Statistics of TaoVA-100x

Start at: 2018-05-30 16:09:55
End at: 2018-05-30 16:10:25
Local clock offset: 0.792 ms
Remote clock offset: 1.346 ms

# Below is generated by plot.py at 2018-05-30 19:13:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.68 Mbit/s
95th percentile per-packet one-way delay: 83.775 ms
Loss rate: 15.41%
-- Flow 1:
Average throughput: 46.95 Mbit/s
95th percentile per-packet one-way delay: 78.154 ms
Loss rate: 14.54%
-- Flow 2:
Average throughput: 39.34 Mbit/s
95th percentile per-packet one-way delay: 87.066 ms
Loss rate: 16.10%
-- Flow 3:
Average throughput: 37.73 Mbit/s
95th percentile per-packet one-way delay: 87.951 ms
Loss rate: 17.15%
```

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



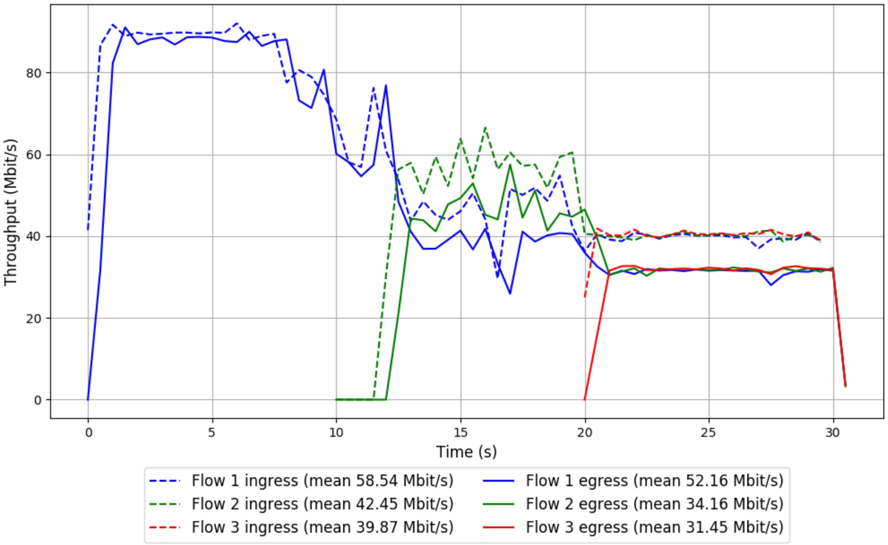


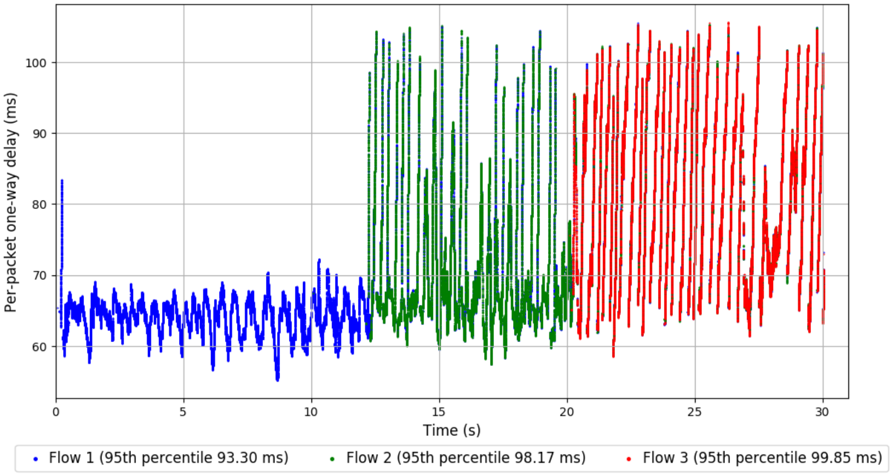
```
Run 3: Statistics of TaoVA-100x

Start at: 2018-05-30 16:29:26
End at: 2018-05-30 16:29:56
Local clock offset: -0.331 ms
Remote clock offset: -6.323 ms

# Below is generated by plot.py at 2018-05-30 19:13:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.36 Mbit/s
95th percentile per-packet one-way delay: 96.682 ms
Loss rate: 14.68%
-- Flow 1:
Average throughput: 52.16 Mbit/s
95th percentile per-packet one-way delay: 93.297 ms
Loss rate: 10.87%
-- Flow 2:
Average throughput: 34.16 Mbit/s
95th percentile per-packet one-way delay: 98.175 ms
Loss rate: 19.53%
-- Flow 3:
Average throughput: 31.45 Mbit/s
95th percentile per-packet one-way delay: 99.848 ms
Loss rate: 21.15%
```

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



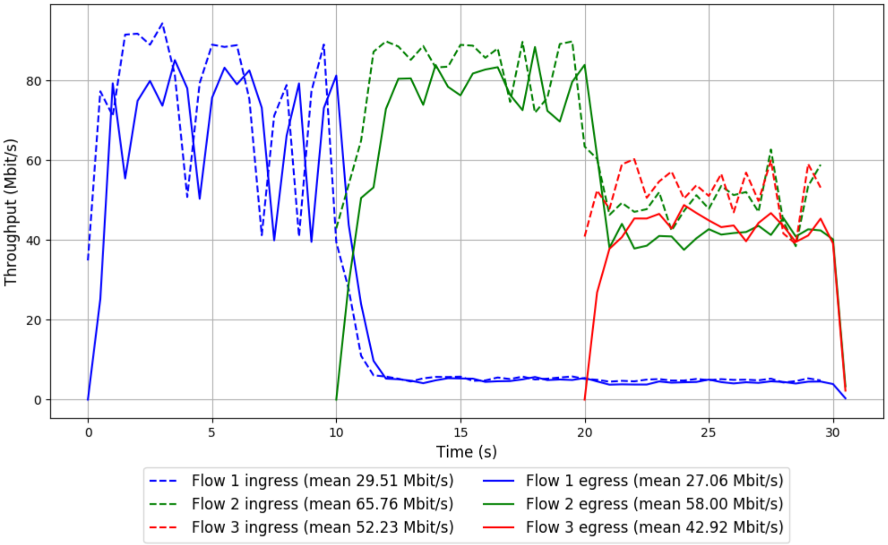


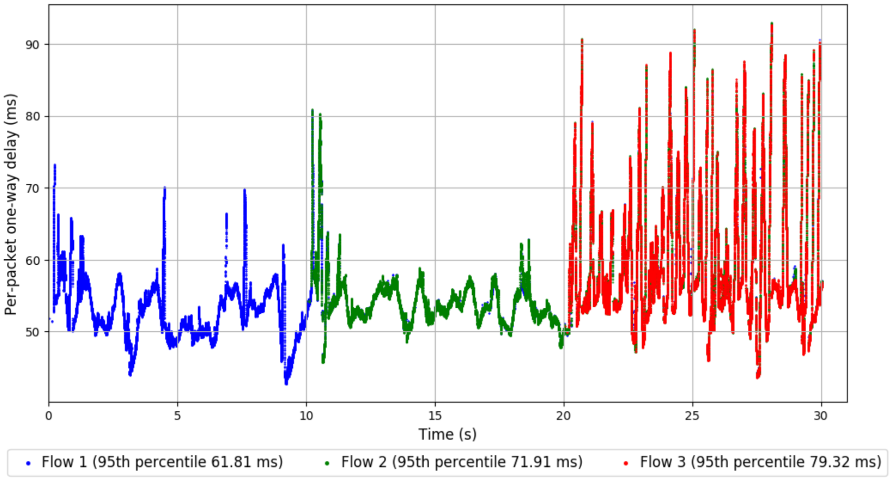
```
Run 4: Statistics of TaoVA-100x

Start at: 2018-05-30 16:48:59
End at: 2018-05-30 16:49:29
Local clock offset: 2.761 ms
Remote clock offset: -13.166 ms

# Below is generated by plot.py at 2018-05-30 19:13:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.94 Mbit/s
95th percentile per-packet one-way delay: 71.855 ms
Loss rate: 11.82%
-- Flow 1:
Average throughput: 27.06 Mbit/s
95th percentile per-packet one-way delay: 61.811 ms
Loss rate: 8.29%
-- Flow 2:
Average throughput: 58.00 Mbit/s
95th percentile per-packet one-way delay: 71.908 ms
Loss rate: 11.79%
-- Flow 3:
Average throughput: 42.92 Mbit/s
95th percentile per-packet one-way delay: 79.316 ms
Loss rate: 17.90%
```

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



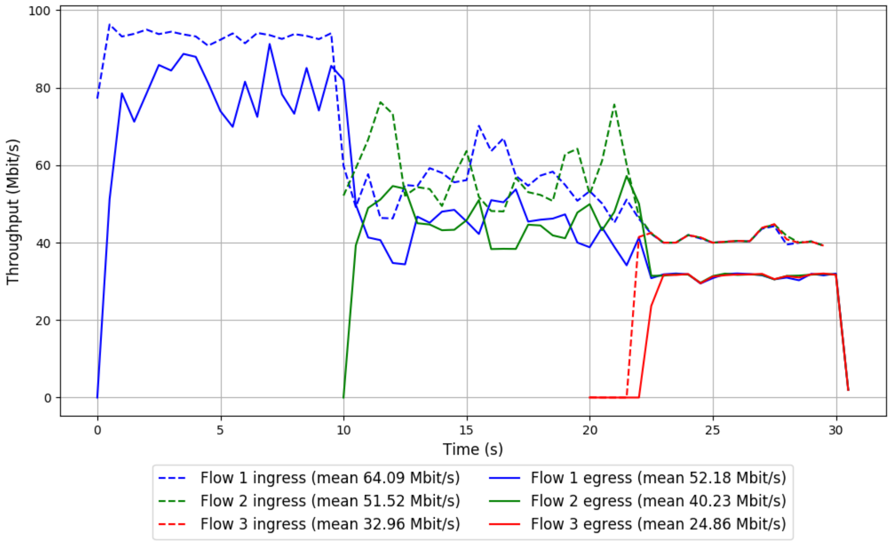


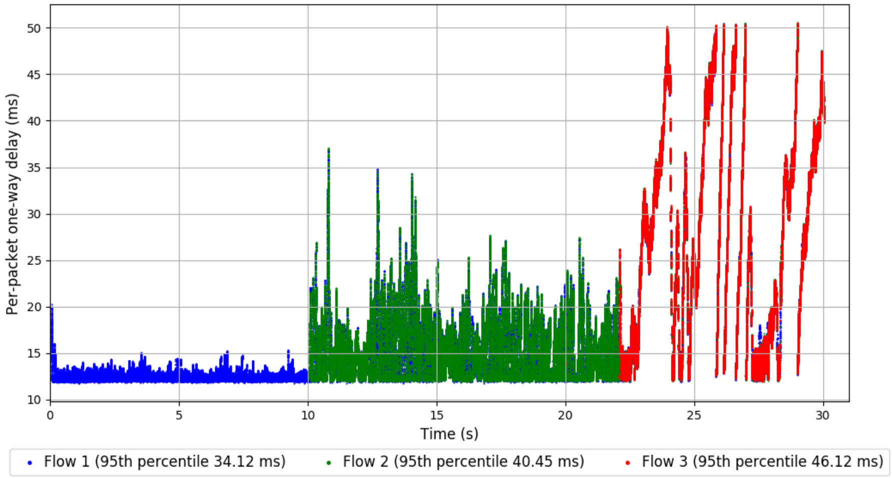
```
Run 5: Statistics of TaoVA-100x

Start at: 2018-05-30 17:08:15
End at: 2018-05-30 17:08:45
Local clock offset: -2.238 ms
Remote clock offset: -15.743 ms

# Below is generated by plot.py at 2018-05-30 19:13:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.26 Mbit/s
95th percentile per-packet one-way delay: 39.596 ms
Loss rate: 20.13%
-- Flow 1:
Average throughput: 52.18 Mbit/s
95th percentile per-packet one-way delay: 34.125 ms
Loss rate: 18.51%
-- Flow 2:
Average throughput: 40.23 Mbit/s
95th percentile per-packet one-way delay: 40.451 ms
Loss rate: 21.81%
-- Flow 3:
Average throughput: 24.86 Mbit/s
95th percentile per-packet one-way delay: 46.119 ms
Loss rate: 24.37%
```

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



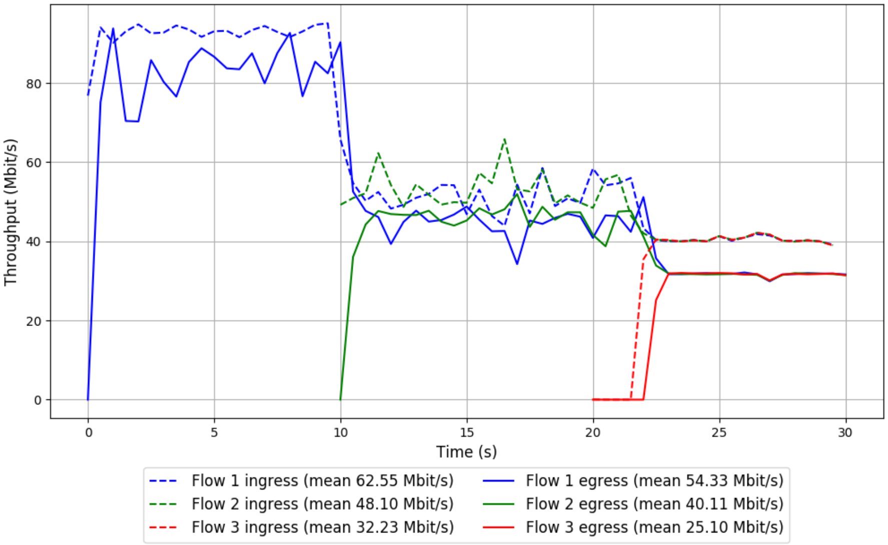


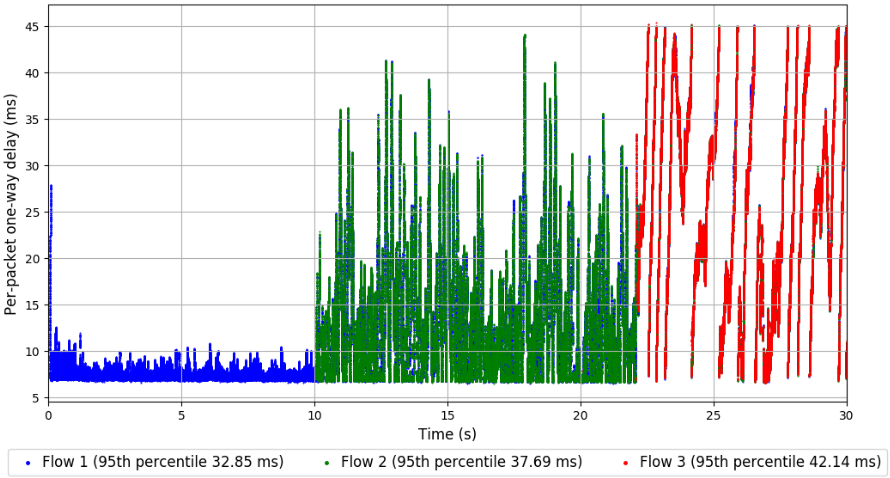
```
Run 6: Statistics of TaoVA-100x

Start at: 2018-05-30 17:27:37
End at: 2018-05-30 17:28:07
Local clock offset: 3.047 ms
Remote clock offset: -4.441 ms

# Below is generated by plot.py at 2018-05-30 19:13:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.39 Mbit/s
95th percentile per-packet one-way delay: 36.867 ms
Loss rate: 15.10%
-- Flow 1:
Average throughput: 54.33 Mbit/s
95th percentile per-packet one-way delay: 32.854 ms
Loss rate: 13.13%
-- Flow 2:
Average throughput: 40.11 Mbit/s
95th percentile per-packet one-way delay: 37.694 ms
Loss rate: 16.60%
-- Flow 3:
Average throughput: 25.10 Mbit/s
95th percentile per-packet one-way delay: 42.141 ms
Loss rate: 22.10%
```

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



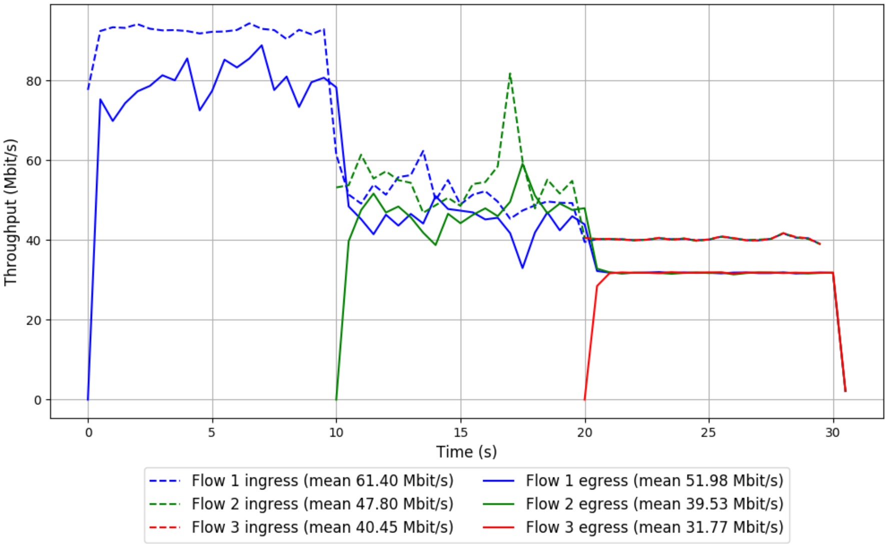


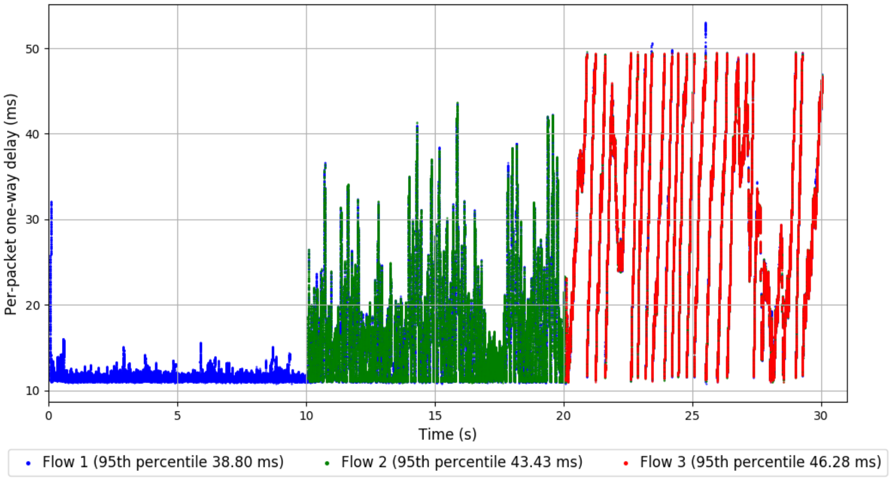
```
Run 7: Statistics of TaoVA-100x

Start at: 2018-05-30 17:46:38
End at: 2018-05-30 17:47:08
Local clock offset: -1.316 ms
Remote clock offset: 1.673 ms

# Below is generated by plot.py at 2018-05-30 19:13:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.91 Mbit/s
95th percentile per-packet one-way delay: 42.838 ms
Loss rate: 16.57%
-- Flow 1:
Average throughput: 51.98 Mbit/s
95th percentile per-packet one-way delay: 38.795 ms
Loss rate: 15.25%
-- Flow 2:
Average throughput: 39.53 Mbit/s
95th percentile per-packet one-way delay: 43.432 ms
Loss rate: 17.16%
-- Flow 3:
Average throughput: 31.77 Mbit/s
95th percentile per-packet one-way delay: 46.277 ms
Loss rate: 21.19%
```

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



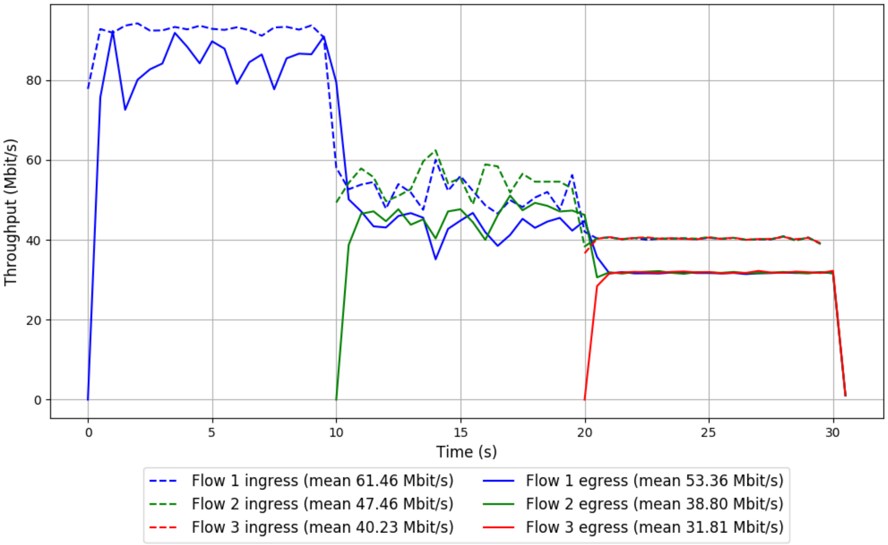


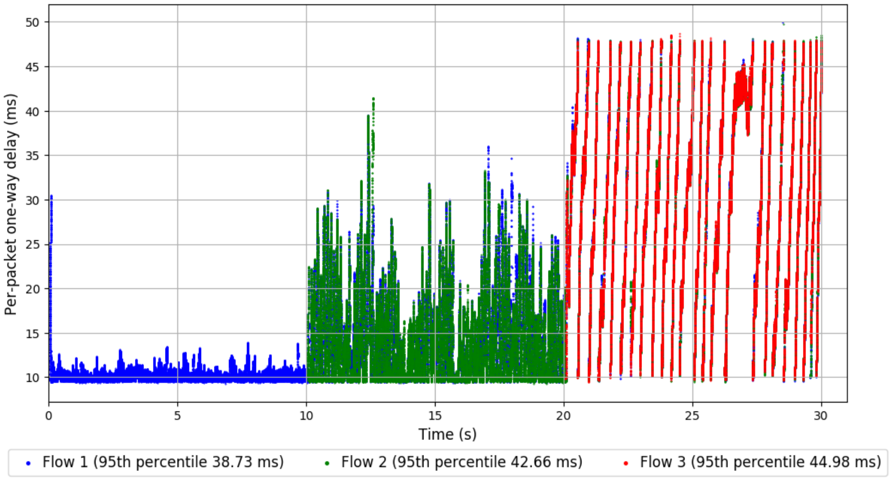
```
Run 8: Statistics of TaoVA-100x

Start at: 2018-05-30 18:05:23
End at: 2018-05-30 18:05:53
Local clock offset: -0.634 ms
Remote clock offset: -0.678 ms

# Below is generated by plot.py at 2018-05-30 19:13:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.80 Mbit/s
95th percentile per-packet one-way delay: 42.214 ms
Loss rate: 15.59%
-- Flow 1:
Average throughput: 53.36 Mbit/s
95th percentile per-packet one-way delay: 38.732 ms
Loss rate: 13.13%
-- Flow 2:
Average throughput: 38.80 Mbit/s
95th percentile per-packet one-way delay: 42.655 ms
Loss rate: 18.18%
-- Flow 3:
Average throughput: 31.81 Mbit/s
95th percentile per-packet one-way delay: 44.979 ms
Loss rate: 20.83%
```

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



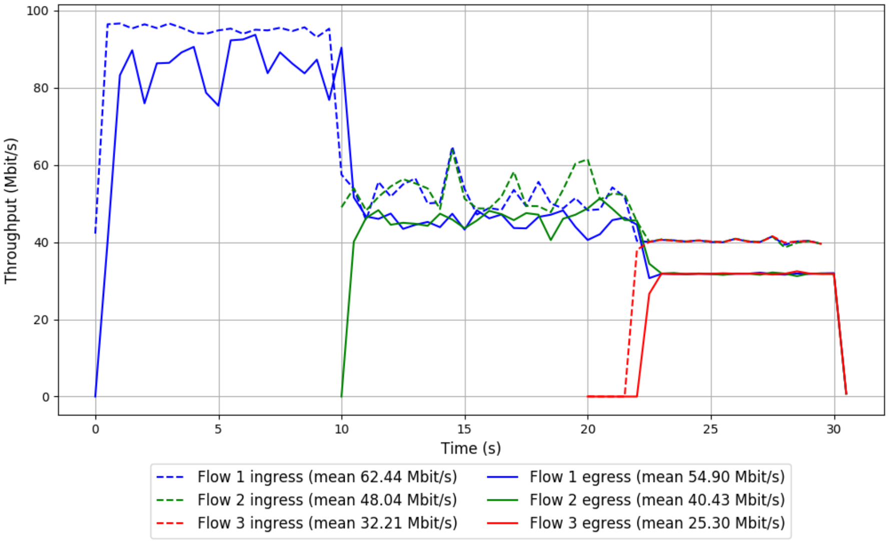


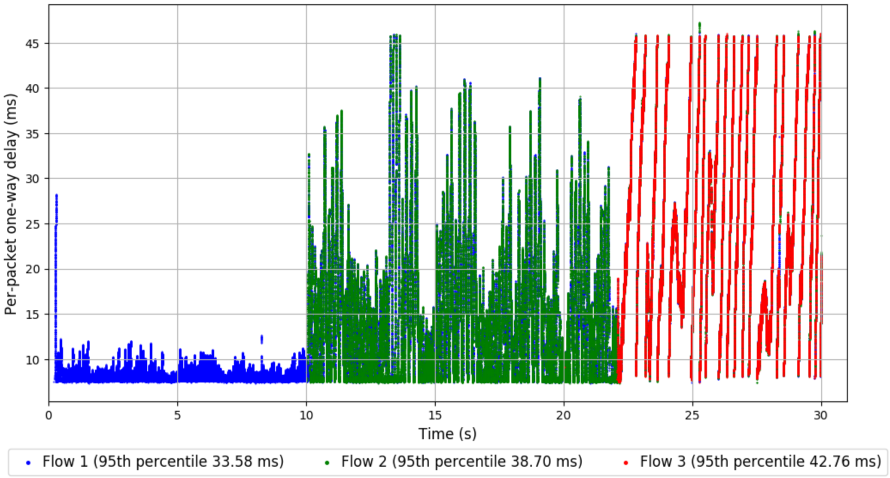
```
Run 9: Statistics of TaoVA-100x

Start at: 2018-05-30 18:24:24
End at: 2018-05-30 18:24:54
Local clock offset: 0.555 ms
Remote clock offset: 0.944 ms

# Below is generated by plot.py at 2018-05-30 19:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.49 Mbit/s
95th percentile per-packet one-way delay: 37.787 ms
Loss rate: 14.47%
-- Flow 1:
Average throughput: 54.90 Mbit/s
95th percentile per-packet one-way delay: 33.576 ms
Loss rate: 12.61%
-- Flow 2:
Average throughput: 40.43 Mbit/s
95th percentile per-packet one-way delay: 38.696 ms
Loss rate: 15.79%
-- Flow 3:
Average throughput: 25.30 Mbit/s
95th percentile per-packet one-way delay: 42.763 ms
Loss rate: 21.35%
```

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



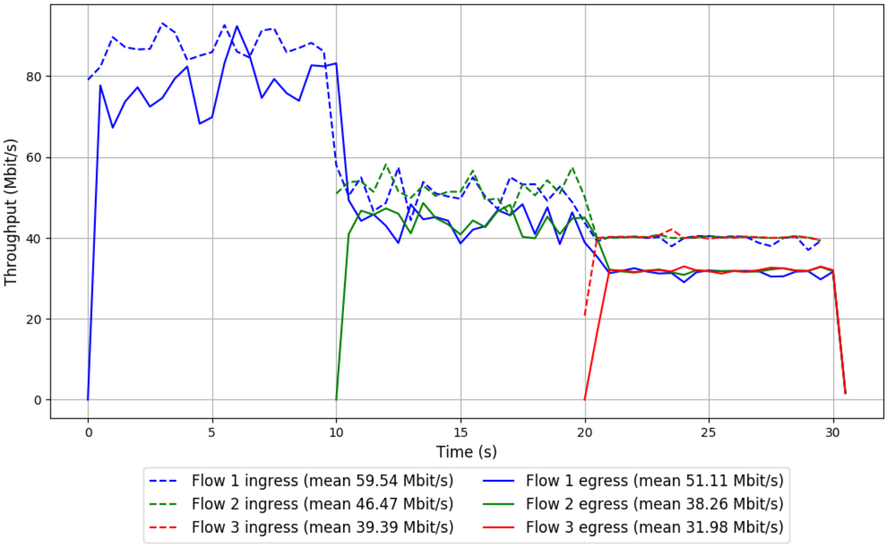


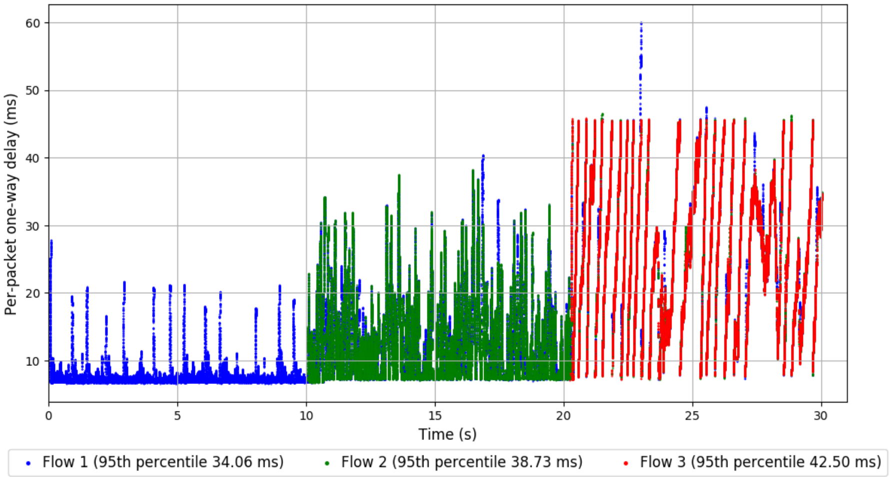
```
Run 10: Statistics of TaoVA-100x

Start at: 2018-05-30 18:42:58
End at: 2018-05-30 18:43:28
Local clock offset: 0.506 ms
Remote clock offset: -6.163 ms

# Below is generated by plot.py at 2018-05-30 19:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.04 Mbit/s
95th percentile per-packet one-way delay: 37.797 ms
Loss rate: 15.89%
-- Flow 1:
Average throughput: 51.11 Mbit/s
95th percentile per-packet one-way delay: 34.056 ms
Loss rate: 14.08%
-- Flow 2:
Average throughput: 38.26 Mbit/s
95th percentile per-packet one-way delay: 38.726 ms
Loss rate: 17.56%
-- Flow 3:
Average throughput: 31.98 Mbit/s
95th percentile per-packet one-way delay: 42.501 ms
Loss rate: 20.22%
```

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



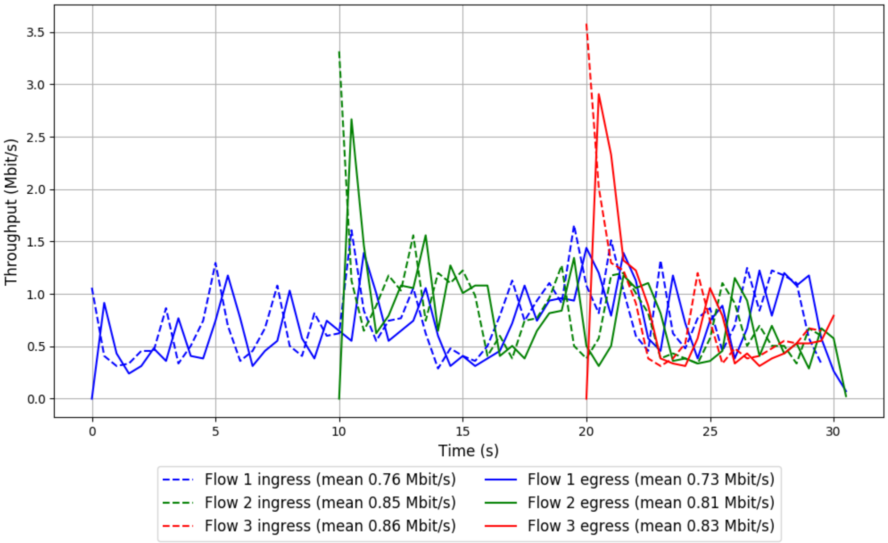


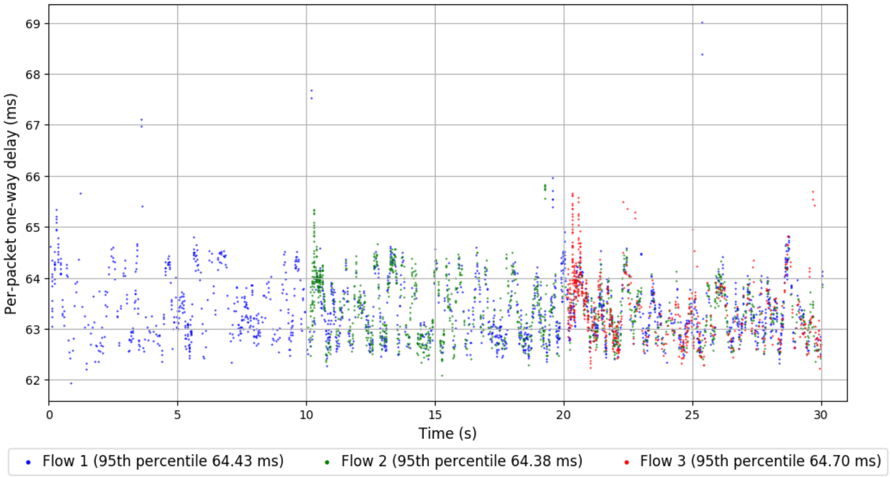
```
Run 1: Statistics of TCP Vegas

Start at: 2018-05-30 15:59:07
End at: 2018-05-30 15:59:37
Local clock offset: 0.953 ms
Remote clock offset: 7.652 ms

# Below is generated by plot.py at 2018-05-30 19:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.54 Mbit/s
95th percentile per-packet one-way delay: 64.429 ms
Loss rate: 4.05%
-- Flow 1:
Average throughput: 0.73 Mbit/s
95th percentile per-packet one-way delay: 64.427 ms
Loss rate: 4.10%
-- Flow 2:
Average throughput: 0.81 Mbit/s
95th percentile per-packet one-way delay: 64.379 ms
Loss rate: 4.12%
-- Flow 3:
Average throughput: 0.83 Mbit/s
95th percentile per-packet one-way delay: 64.702 ms
Loss rate: 3.80%
```

Run 1: Report of TCP Vegas — Data Link



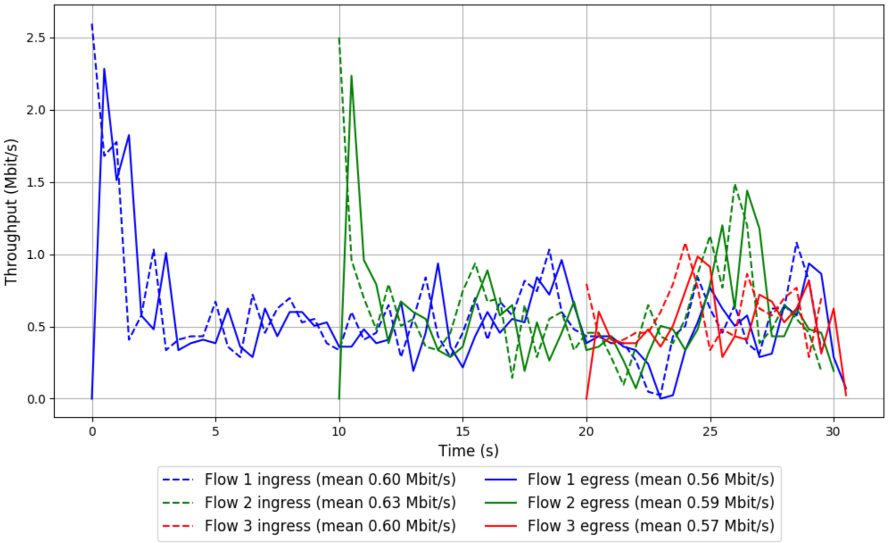


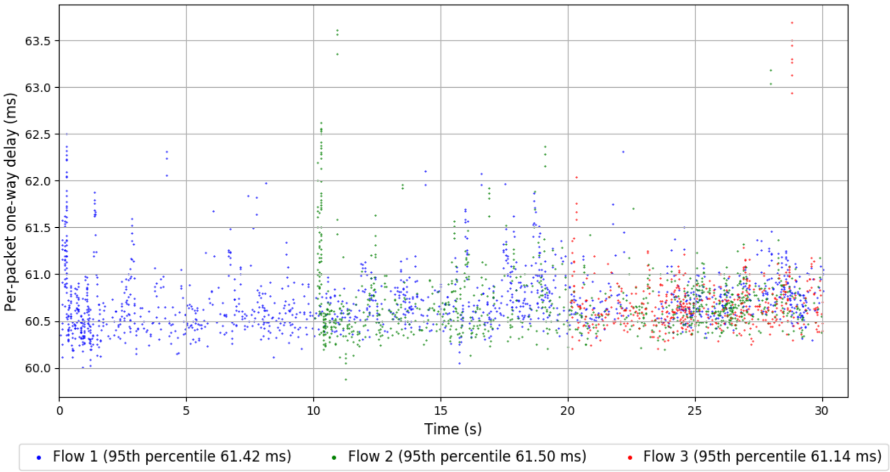
```
Run 2: Statistics of TCP Vegas

Start at: 2018-05-30 16:18:43
End at: 2018-05-30 16:19:13
Local clock offset: 0.818 ms
Remote clock offset: -7.966 ms

# Below is generated by plot.py at 2018-05-30 19:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.14 Mbit/s
95th percentile per-packet one-way delay: 61.407 ms
Loss rate: 6.02%
-- Flow 1:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 61.425 ms
Loss rate: 5.81%
-- Flow 2:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 61.504 ms
Loss rate: 6.32%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 61.141 ms
Loss rate: 6.03%
```

Run 2: Report of TCP Vegas — Data Link



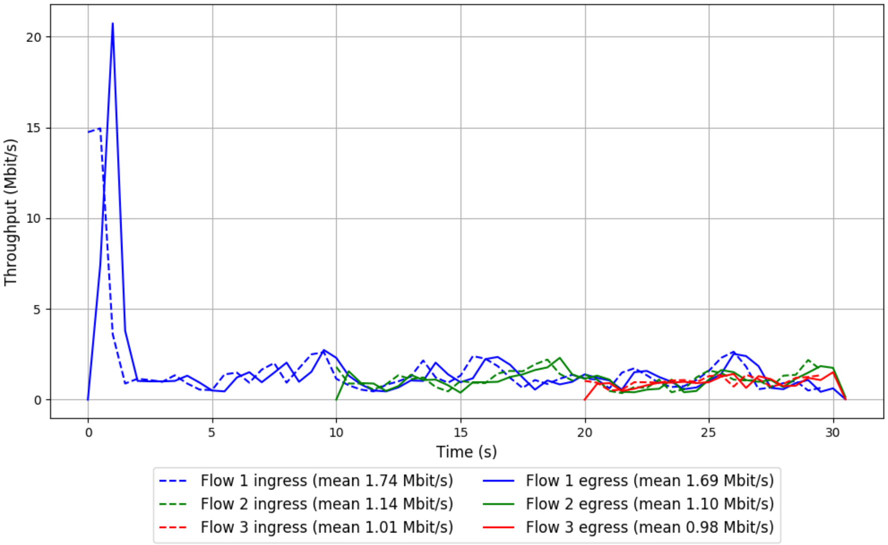


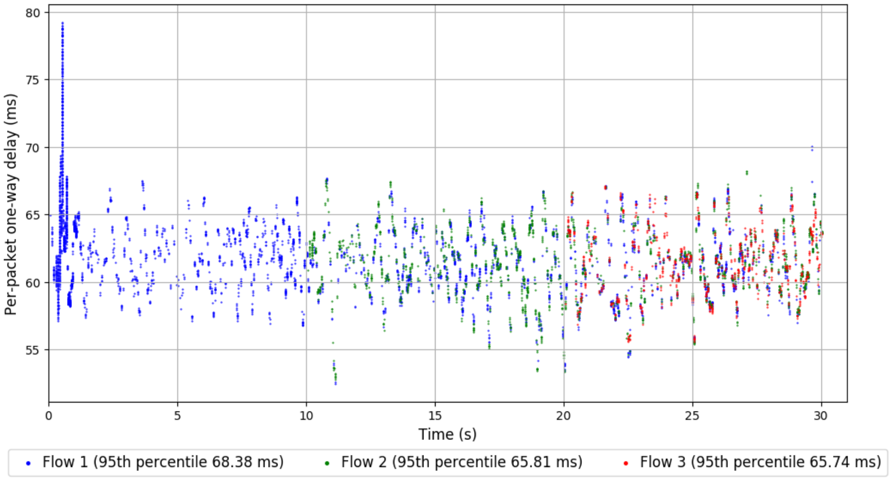
```
Run 3: Statistics of TCP Vegas

Start at: 2018-05-30 16:37:46
End at: 2018-05-30 16:38:16
Local clock offset: -1.67 ms
Remote clock offset: -12.519 ms

# Below is generated by plot.py at 2018-05-30 19:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.74 Mbit/s
95th percentile per-packet one-way delay: 66.898 ms
Loss rate: 3.11%
-- Flow 1:
Average throughput: 1.69 Mbit/s
95th percentile per-packet one-way delay: 68.379 ms
Loss rate: 3.00%
-- Flow 2:
Average throughput: 1.10 Mbit/s
95th percentile per-packet one-way delay: 65.814 ms
Loss rate: 3.12%
-- Flow 3:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 65.737 ms
Loss rate: 3.68%
```

Run 3: Report of TCP Vegas — Data Link



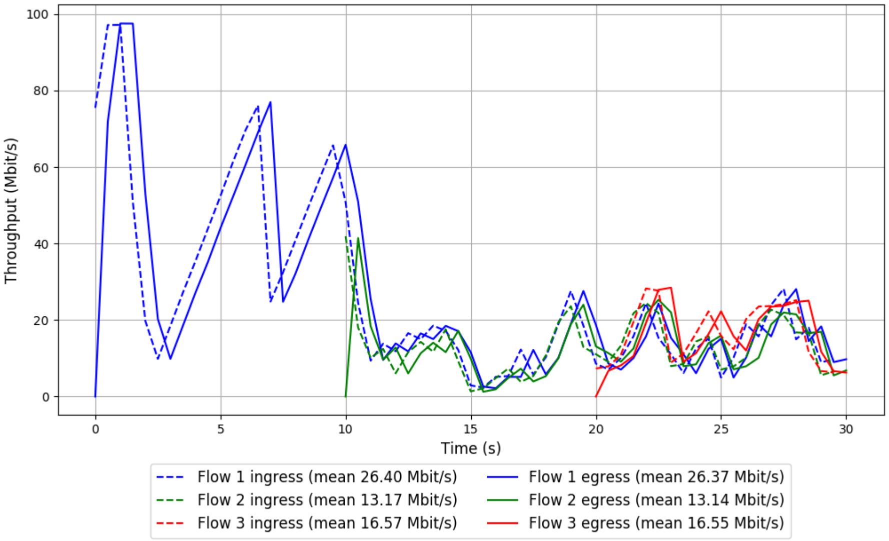


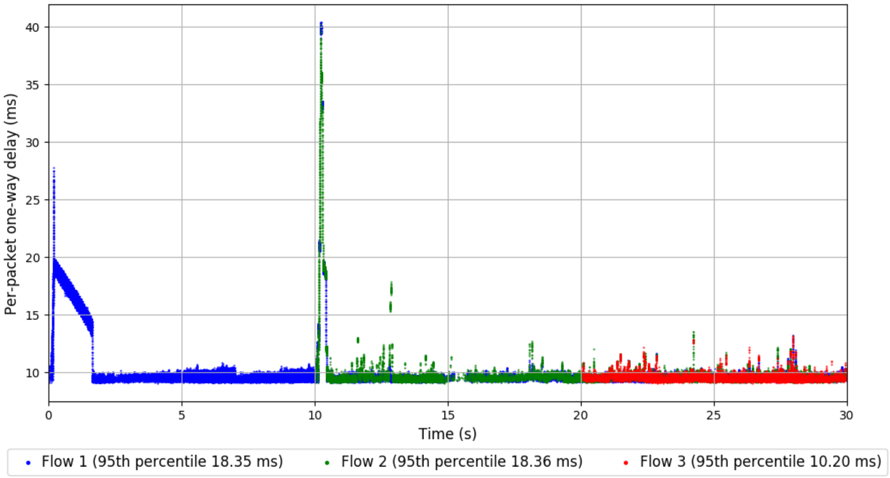
```
Run 4: Statistics of TCP Vegas

Start at: 2018-05-30 16:57:45
End at: 2018-05-30 16:58:15
Local clock offset: 0.86 ms
Remote clock offset: -14.301 ms

# Below is generated by plot.py at 2018-05-30 19:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.61 Mbit/s
95th percentile per-packet one-way delay: 18.098 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 26.37 Mbit/s
95th percentile per-packet one-way delay: 18.350 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 13.14 Mbit/s
95th percentile per-packet one-way delay: 18.355 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 16.55 Mbit/s
95th percentile per-packet one-way delay: 10.200 ms
Loss rate: 0.13%
```

Run 4: Report of TCP Vegas — Data Link



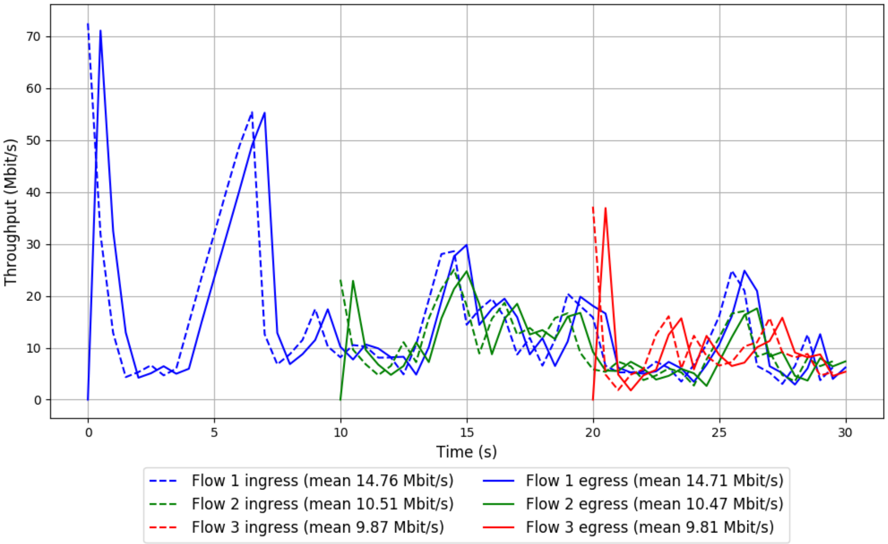


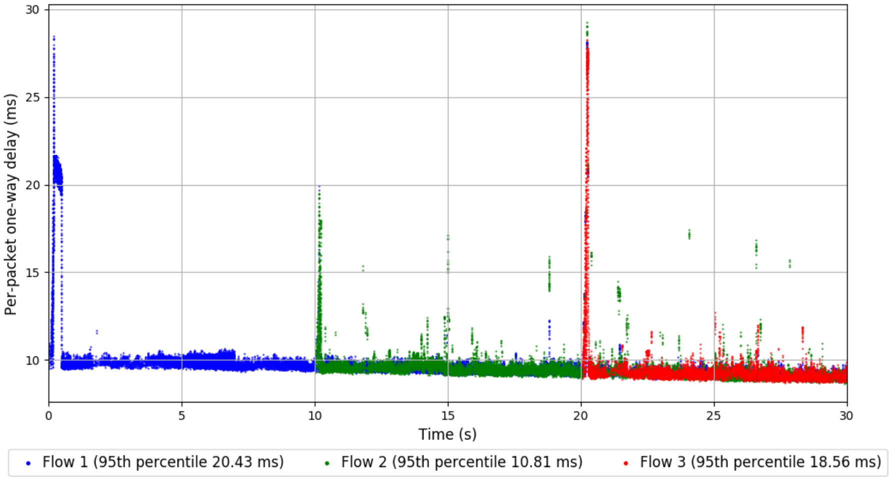
```
Run 5: Statistics of TCP Vegas

Start at: 2018-05-30 17:16:40
End at: 2018-05-30 17:17:10
Local clock offset: -0.998 ms
Remote clock offset: -17.992 ms

# Below is generated by plot.py at 2018-05-30 19:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.94 Mbit/s
95th percentile per-packet one-way delay: 17.531 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 14.71 Mbit/s
95th percentile per-packet one-way delay: 20.430 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 10.47 Mbit/s
95th percentile per-packet one-way delay: 10.807 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 9.81 Mbit/s
95th percentile per-packet one-way delay: 18.556 ms
Loss rate: 0.60%
```

Run 5: Report of TCP Vegas — Data Link



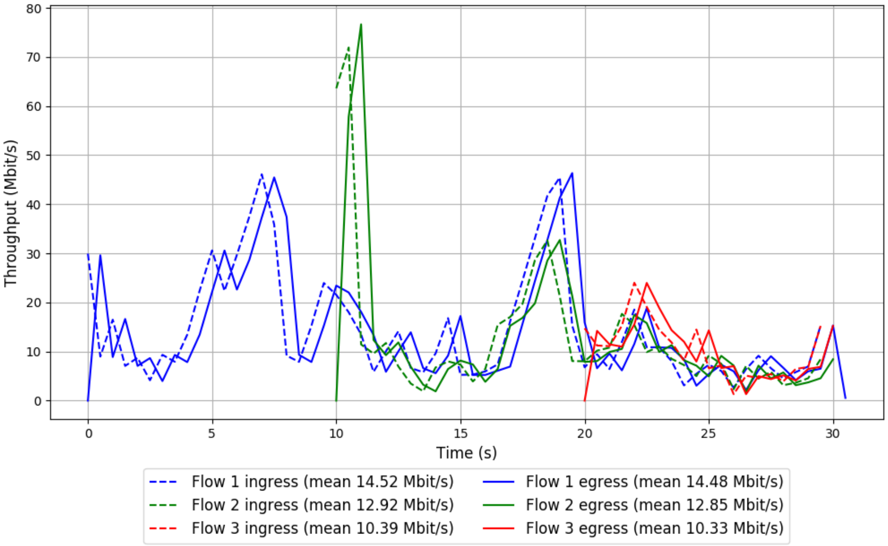


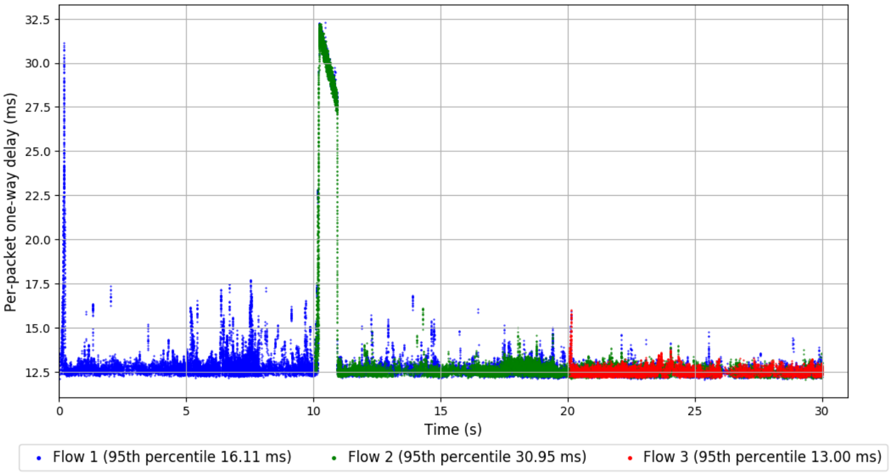
```
Run 6: Statistics of TCP Vegas

Start at: 2018-05-30 17:36:11
End at: 2018-05-30 17:36:42
Local clock offset: -2.762 ms
Remote clock offset: -1.002 ms

# Below is generated by plot.py at 2018-05-30 19:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 26.46 Mbit/s
95th percentile per-packet one-way delay: 29.587 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 14.48 Mbit/s
95th percentile per-packet one-way delay: 16.115 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 12.85 Mbit/s
95th percentile per-packet one-way delay: 30.951 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 10.33 Mbit/s
95th percentile per-packet one-way delay: 12.999 ms
Loss rate: 0.54%
```

Run 6: Report of TCP Vegas — Data Link



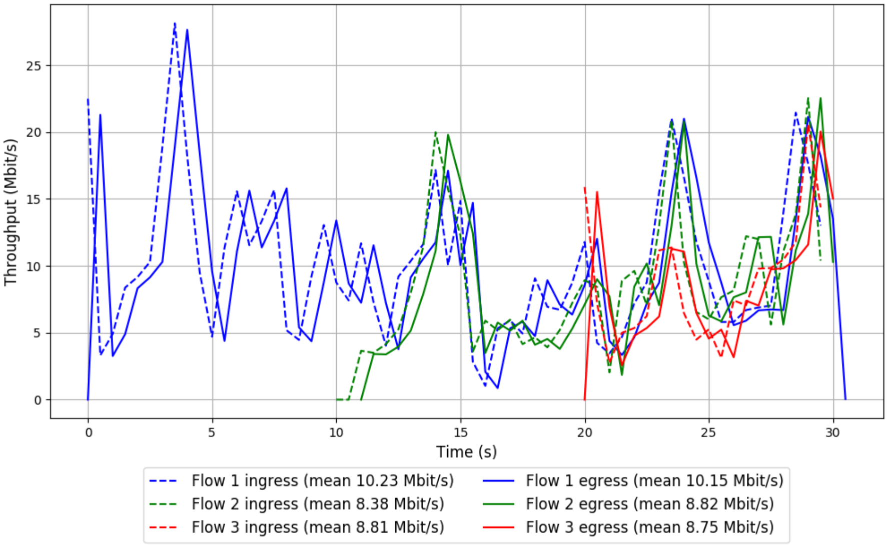


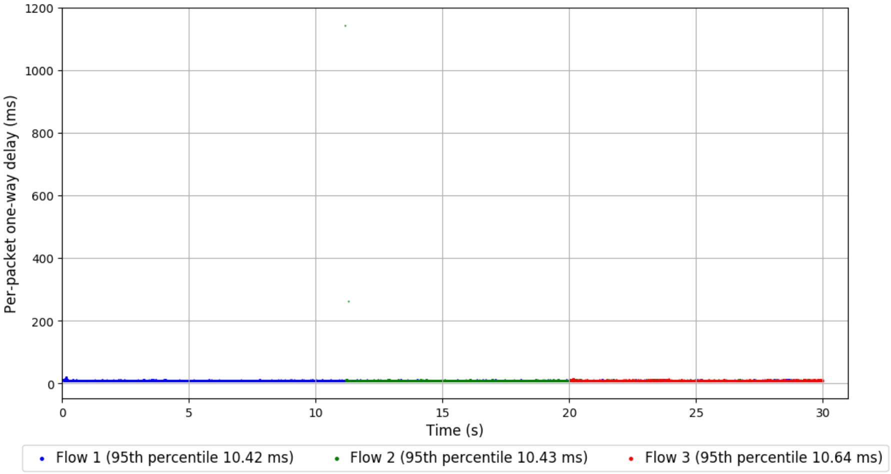
```
Run 7: Statistics of TCP Vegas

Start at: 2018-05-30 17:54:45
End at: 2018-05-30 17:55:15
Local clock offset: -0.16 ms
Remote clock offset: 0.906 ms

# Below is generated by plot.py at 2018-05-30 19:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.60 Mbit/s
95th percentile per-packet one-way delay: 10.445 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 10.15 Mbit/s
95th percentile per-packet one-way delay: 10.419 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 8.82 Mbit/s
95th percentile per-packet one-way delay: 10.429 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 8.75 Mbit/s
95th percentile per-packet one-way delay: 10.641 ms
Loss rate: 0.75%
```

Run 7: Report of TCP Vegas — Data Link



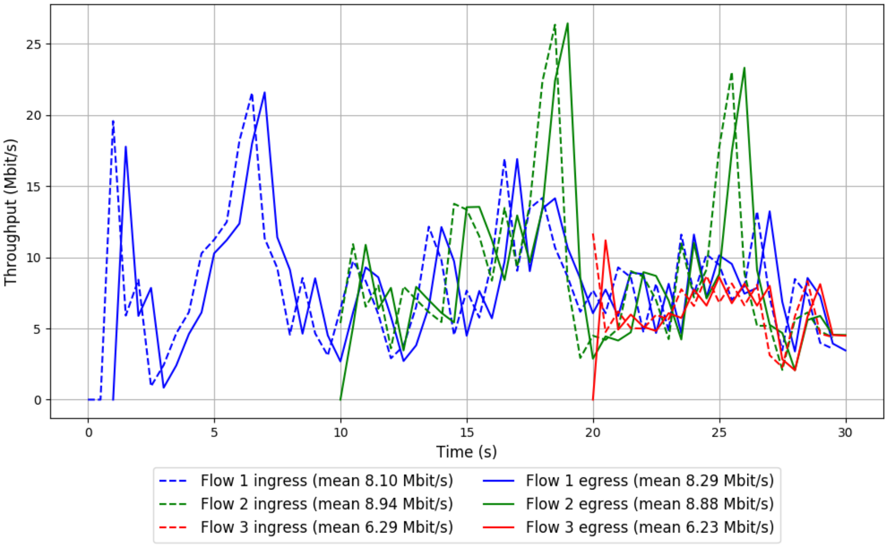


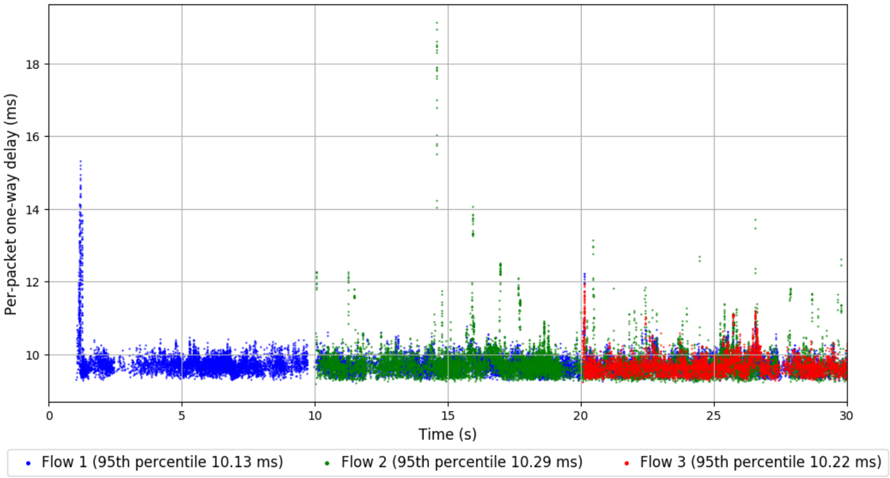
```
Run 8: Statistics of TCP Vegas

Start at: 2018-05-30 18:13:38
End at: 2018-05-30 18:14:09
Local clock offset: -1.026 ms
Remote clock offset: -0.145 ms

# Below is generated by plot.py at 2018-05-30 19:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.55 Mbit/s
95th percentile per-packet one-way delay: 10.199 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 8.29 Mbit/s
95th percentile per-packet one-way delay: 10.126 ms
Loss rate: 1.18%
-- Flow 2:
Average throughput: 8.88 Mbit/s
95th percentile per-packet one-way delay: 10.293 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 6.23 Mbit/s
95th percentile per-packet one-way delay: 10.224 ms
Loss rate: 1.09%
```

Run 8: Report of TCP Vegas — Data Link



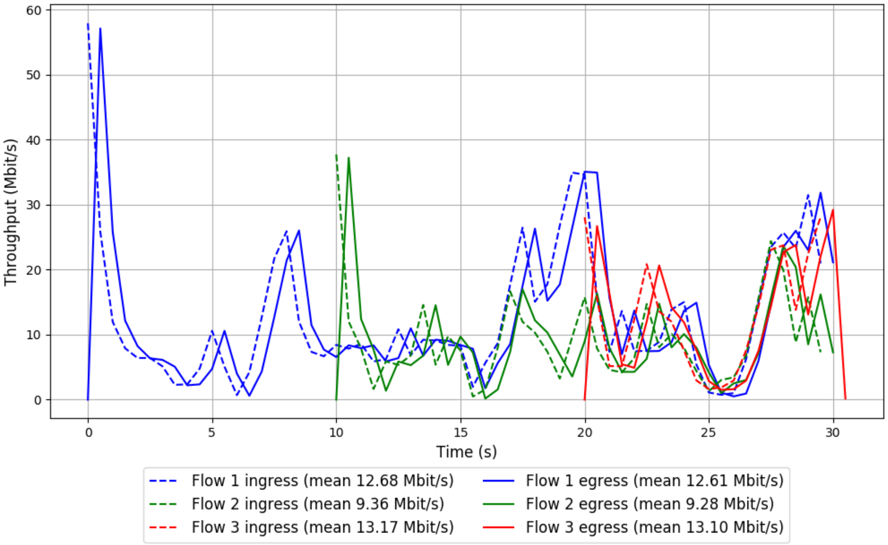


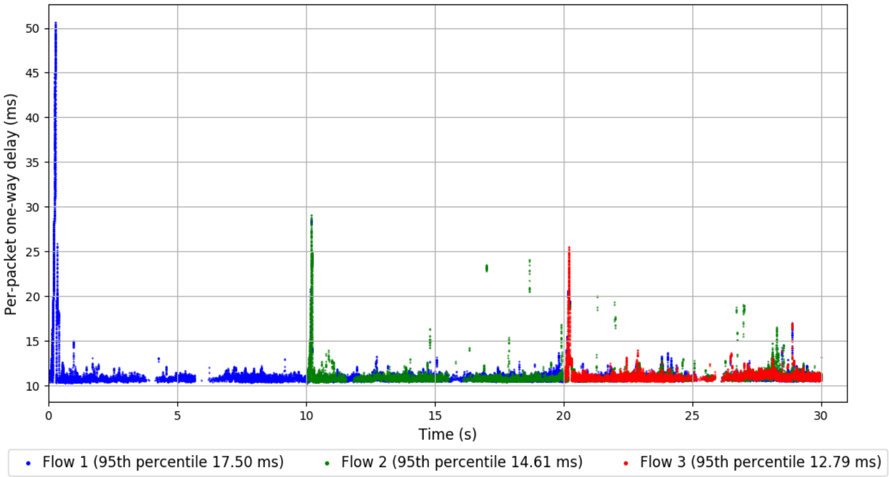
```
Run 9: Statistics of TCP Vegas

Start at: 2018-05-30 18:32:34
End at: 2018-05-30 18:33:04
Local clock offset: -2.028 ms
Remote clock offset: -3.438 ms

# Below is generated by plot.py at 2018-05-30 19:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.14 Mbit/s
95th percentile per-packet one-way delay: 15.014 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 17.500 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 9.28 Mbit/s
95th percentile per-packet one-way delay: 14.607 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 13.10 Mbit/s
95th percentile per-packet one-way delay: 12.785 ms
Loss rate: 0.48%
```

Run 9: Report of TCP Vegas — Data Link



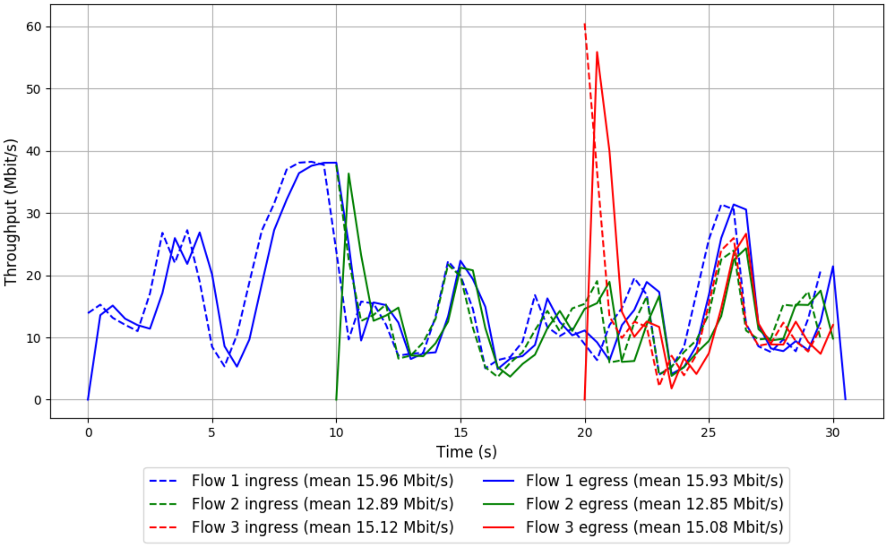


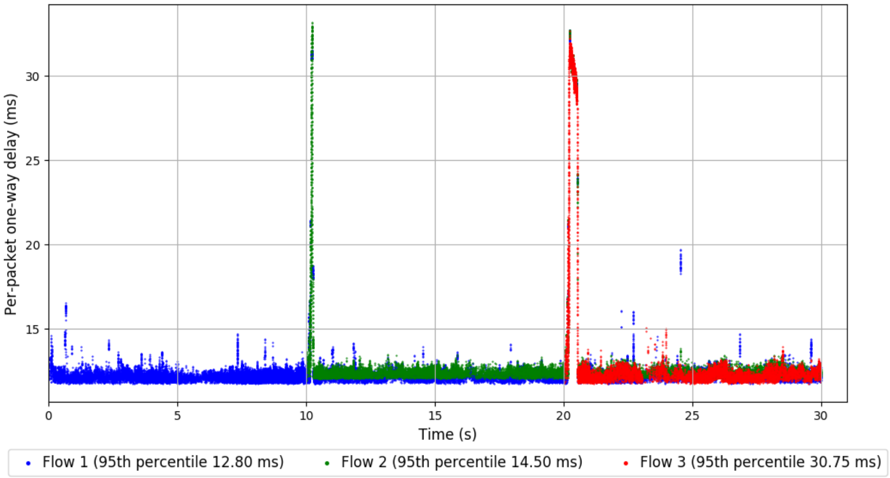
```
Run 10: Statistics of TCP Vegas

Start at: 2018-05-30 18:51:04
End at: 2018-05-30 18:51:34
Local clock offset: -4.385 ms
Remote clock offset: -7.102 ms

# Below is generated by plot.py at 2018-05-30 19:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 29.50 Mbit/s
95th percentile per-packet one-way delay: 17.139 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 15.93 Mbit/s
95th percentile per-packet one-way delay: 12.799 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 12.85 Mbit/s
95th percentile per-packet one-way delay: 14.504 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 15.08 Mbit/s
95th percentile per-packet one-way delay: 30.747 ms
Loss rate: 0.29%
```

Run 10: Report of TCP Vegas — Data Link



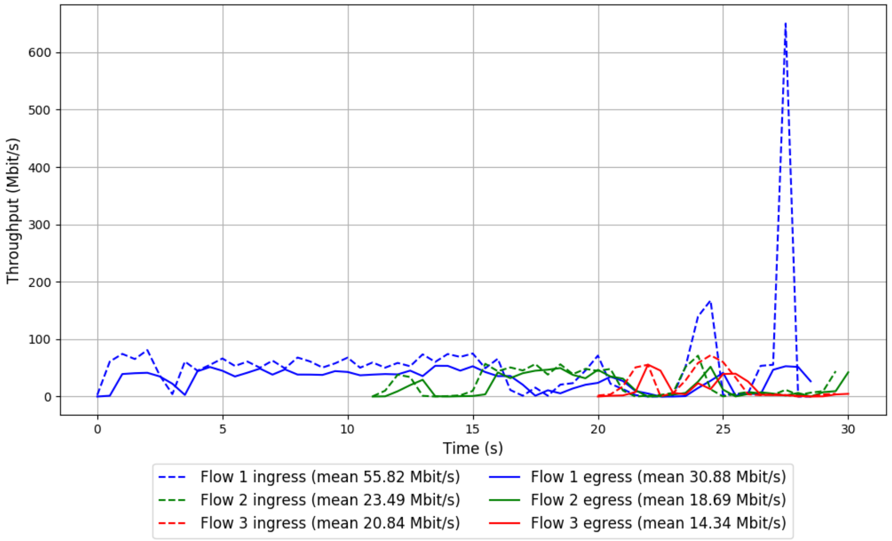


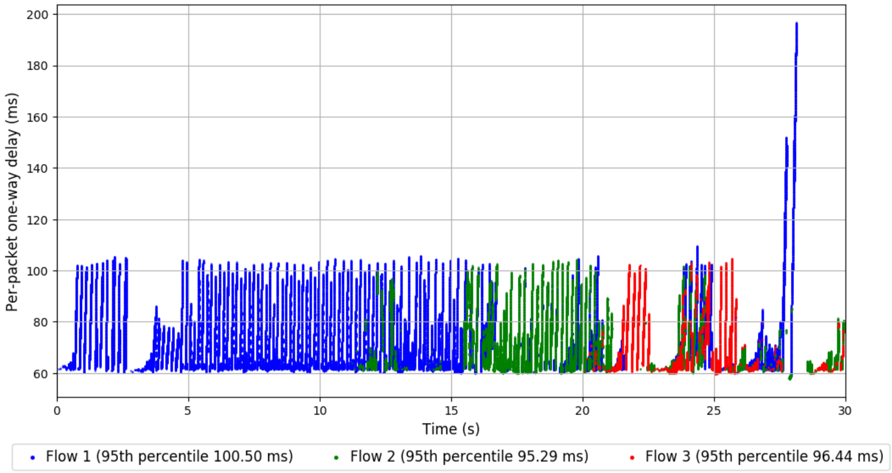
```
Run 1: Statistics of Verus

Start at: 2018-05-30 16:01:25
End at: 2018-05-30 16:01:55
Local clock offset: 0.482 ms
Remote clock offset: 5.036 ms

# Below is generated by plot.py at 2018-05-30 19:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 45.43 Mbit/s
95th percentile per-packet one-way delay: 98.818 ms
Loss rate: 39.94%
-- Flow 1:
Average throughput: 30.88 Mbit/s
95th percentile per-packet one-way delay: 100.505 ms
Loss rate: 46.37%
-- Flow 2:
Average throughput: 18.69 Mbit/s
95th percentile per-packet one-way delay: 95.293 ms
Loss rate: 20.38%
-- Flow 3:
Average throughput: 14.34 Mbit/s
95th percentile per-packet one-way delay: 96.437 ms
Loss rate: 31.10%
```

Run 1: Report of Verus — Data Link



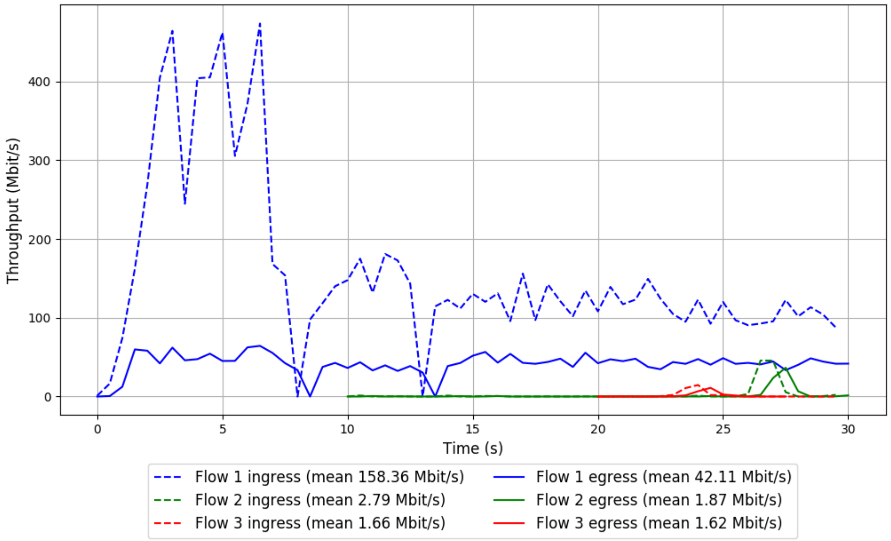


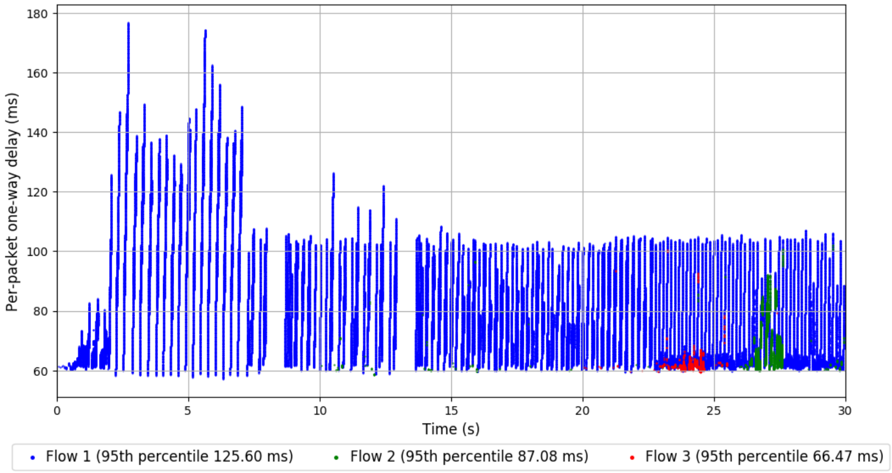
```
Run 2: Statistics of Verus

Start at: 2018-05-30 16:20:59
End at: 2018-05-30 16:21:29
Local clock offset: -0.117 ms
Remote clock offset: -8.564 ms

# Below is generated by plot.py at 2018-05-30 19:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 43.75 Mbit/s
95th percentile per-packet one-way delay: 125.064 ms
Loss rate: 72.78%
-- Flow 1:
Average throughput: 42.11 Mbit/s
95th percentile per-packet one-way delay: 125.597 ms
Loss rate: 73.40%
-- Flow 2:
Average throughput: 1.87 Mbit/s
95th percentile per-packet one-way delay: 87.078 ms
Loss rate: 32.78%
-- Flow 3:
Average throughput: 1.62 Mbit/s
95th percentile per-packet one-way delay: 66.468 ms
Loss rate: 27.69%
```

Run 2: Report of Verus — Data Link



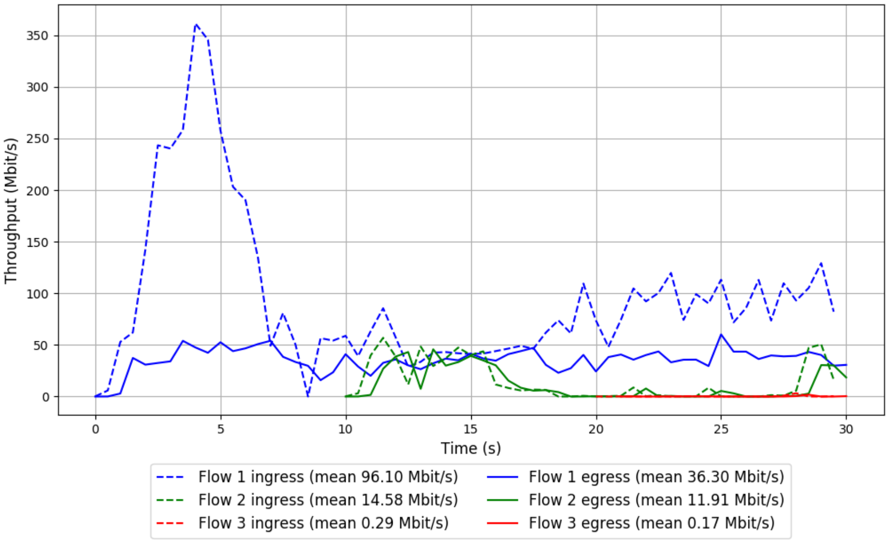


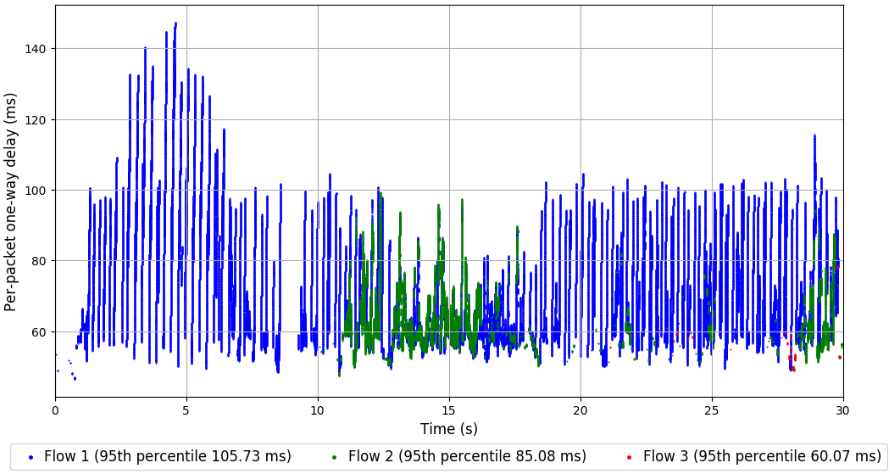
```
Run 3: Statistics of Verus

Start at: 2018-05-30 16:40:06
End at: 2018-05-30 16:40:36
Local clock offset: 3.019 ms
Remote clock offset: -12.842 ms

# Below is generated by plot.py at 2018-05-30 19:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 44.12 Mbit/s
95th percentile per-packet one-way delay: 102.045 ms
Loss rate: 58.14%
-- Flow 1:
Average throughput: 36.30 Mbit/s
95th percentile per-packet one-way delay: 105.730 ms
Loss rate: 62.19%
-- Flow 2:
Average throughput: 11.91 Mbit/s
95th percentile per-packet one-way delay: 85.084 ms
Loss rate: 18.31%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 60.071 ms
Loss rate: 47.11%
```

Run 3: Report of Verus — Data Link



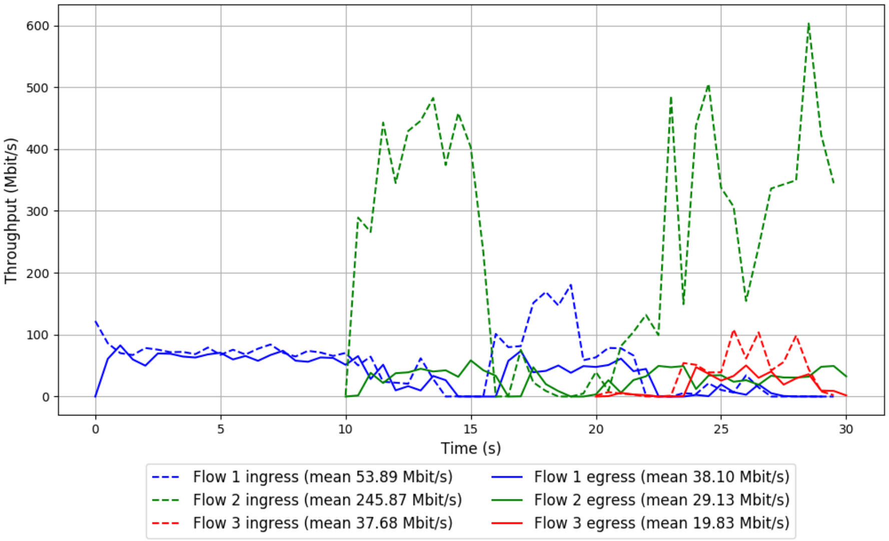


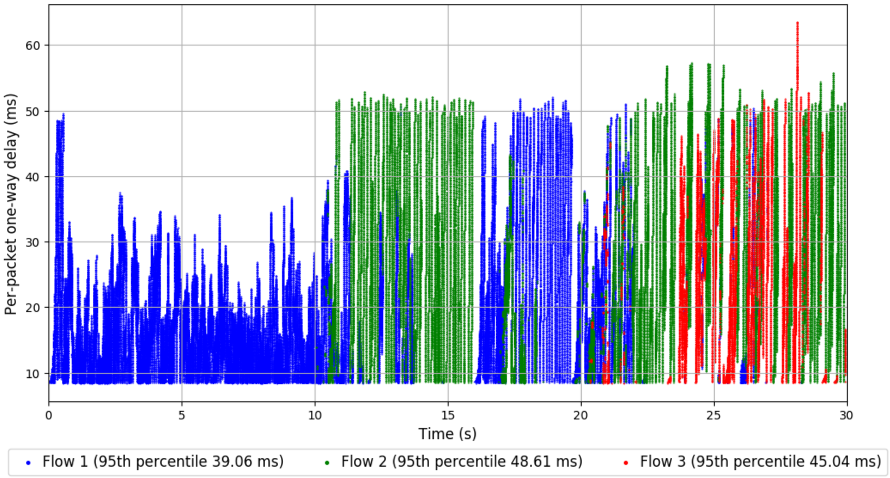
```
Run 4: Statistics of Verus

Start at: 2018-05-30 17:00:01
End at: 2018-05-30 17:00:31
Local clock offset: -0.274 ms
Remote clock offset: -16.353 ms

# Below is generated by plot.py at 2018-05-30 19:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.01 Mbit/s
95th percentile per-packet one-way delay: 45.266 ms
Loss rate: 72.91%
-- Flow 1:
Average throughput: 38.10 Mbit/s
95th percentile per-packet one-way delay: 39.059 ms
Loss rate: 32.32%
-- Flow 2:
Average throughput: 29.13 Mbit/s
95th percentile per-packet one-way delay: 48.613 ms
Loss rate: 88.14%
-- Flow 3:
Average throughput: 19.83 Mbit/s
95th percentile per-packet one-way delay: 45.038 ms
Loss rate: 47.32%
```

Run 4: Report of Verus — Data Link



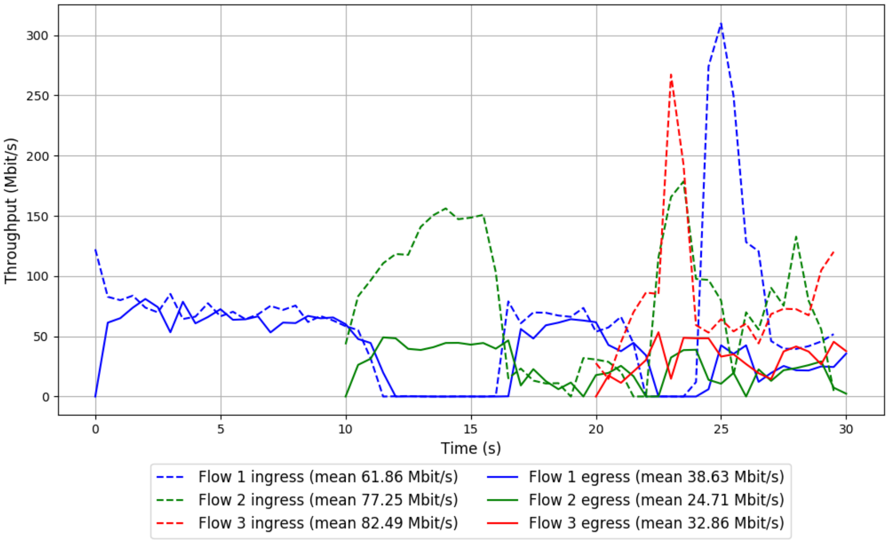


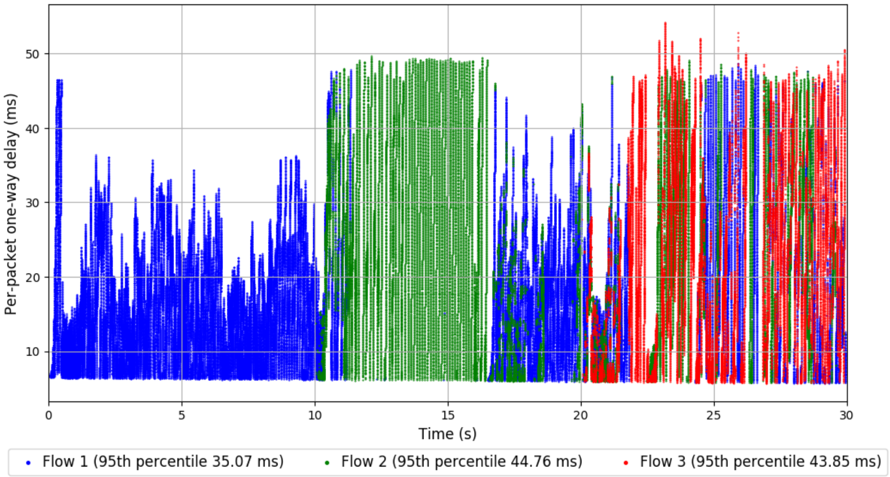
```
Run 5: Statistics of Verus

Start at: 2018-05-30 17:19:02
End at: 2018-05-30 17:19:32
Local clock offset: 2.529 ms
Remote clock offset: -13.773 ms

# Below is generated by plot.py at 2018-05-30 19:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.83 Mbit/s
95th percentile per-packet one-way delay: 41.536 ms
Loss rate: 53.09%
-- Flow 1:
Average throughput: 38.63 Mbit/s
95th percentile per-packet one-way delay: 35.067 ms
Loss rate: 37.55%
-- Flow 2:
Average throughput: 24.71 Mbit/s
95th percentile per-packet one-way delay: 44.755 ms
Loss rate: 68.07%
-- Flow 3:
Average throughput: 32.86 Mbit/s
95th percentile per-packet one-way delay: 43.853 ms
Loss rate: 60.20%
```

Run 5: Report of Verus — Data Link



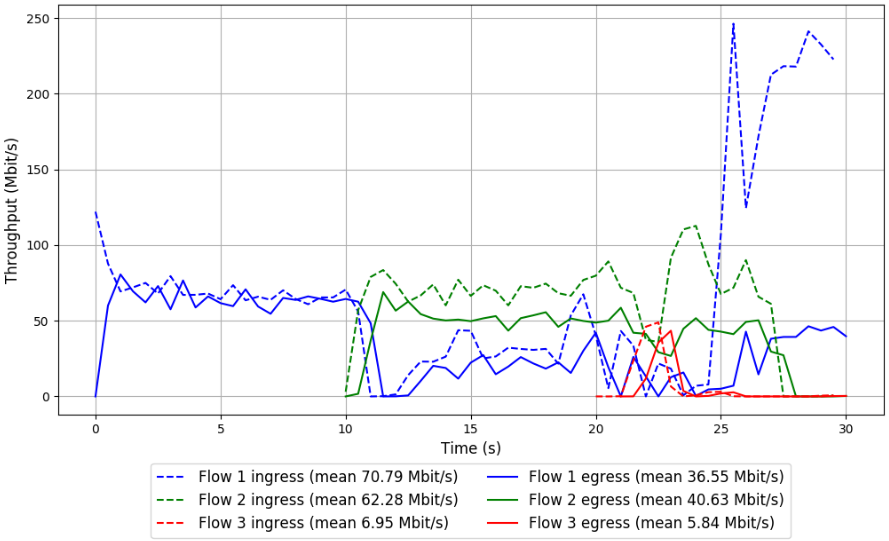


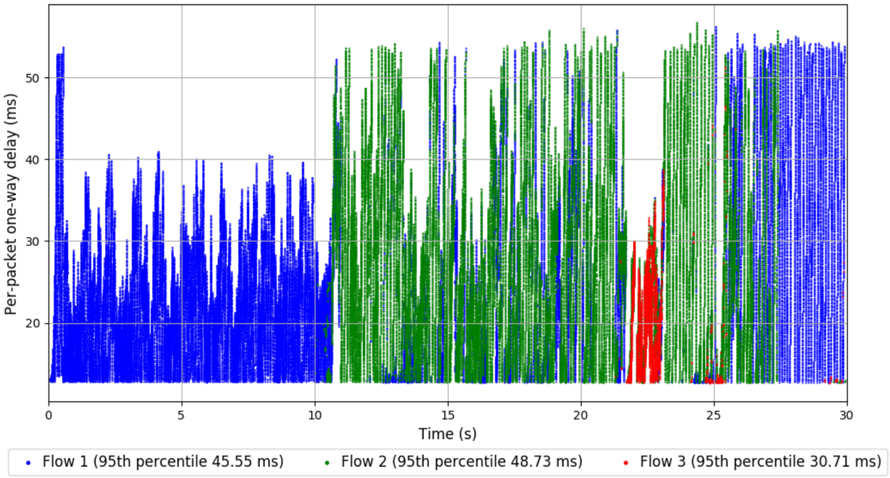
```
Run 6: Statistics of Verus

Start at: 2018-05-30 17:38:27
End at: 2018-05-30 17:38:57
Local clock offset: -2.791 ms
Remote clock offset: 0.16 ms

# Below is generated by plot.py at 2018-05-30 19:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.21 Mbit/s
95th percentile per-packet one-way delay: 47.321 ms
Loss rate: 42.97%
-- Flow 1:
Average throughput: 36.55 Mbit/s
95th percentile per-packet one-way delay: 45.555 ms
Loss rate: 48.35%
-- Flow 2:
Average throughput: 40.63 Mbit/s
95th percentile per-packet one-way delay: 48.734 ms
Loss rate: 34.77%
-- Flow 3:
Average throughput: 5.84 Mbit/s
95th percentile per-packet one-way delay: 30.713 ms
Loss rate: 24.98%
```

Run 6: Report of Verus — Data Link



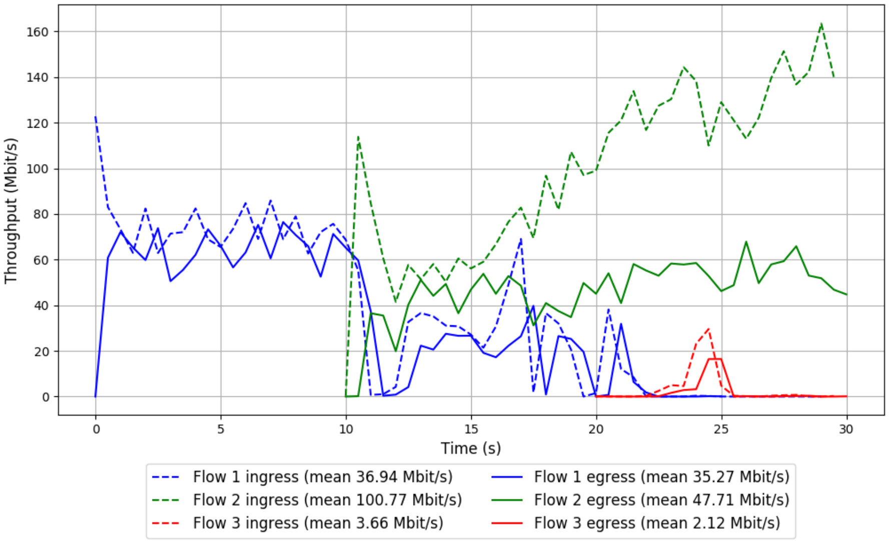


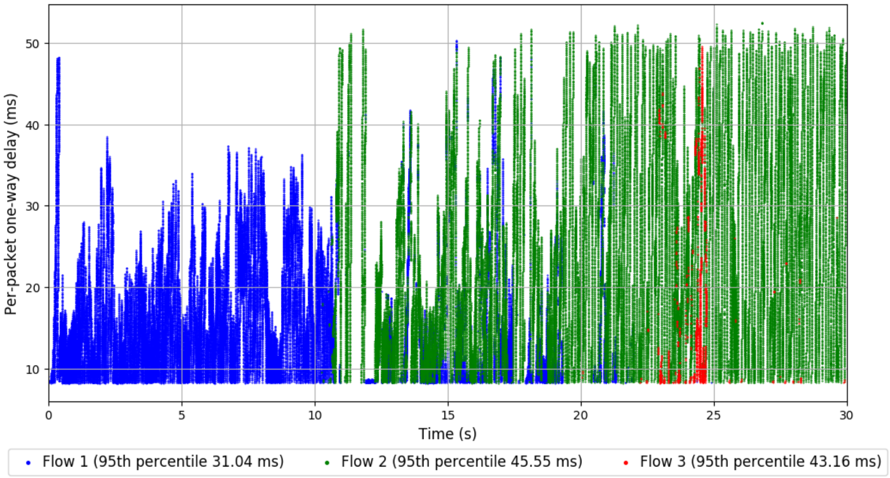
```
Run 7: Statistics of Verus

Start at: 2018-05-30 17:57:15
End at: 2018-05-30 17:57:45
Local clock offset: 0.719 ms
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2018-05-30 19:15:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.49 Mbit/s
95th percentile per-packet one-way delay: 42.489 ms
Loss rate: 40.64%
-- Flow 1:
Average throughput: 35.27 Mbit/s
95th percentile per-packet one-way delay: 31.035 ms
Loss rate: 18.64%
-- Flow 2:
Average throughput: 47.71 Mbit/s
95th percentile per-packet one-way delay: 45.553 ms
Loss rate: 52.61%
-- Flow 3:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: 43.158 ms
Loss rate: 42.34%
```

Run 7: Report of Verus — Data Link



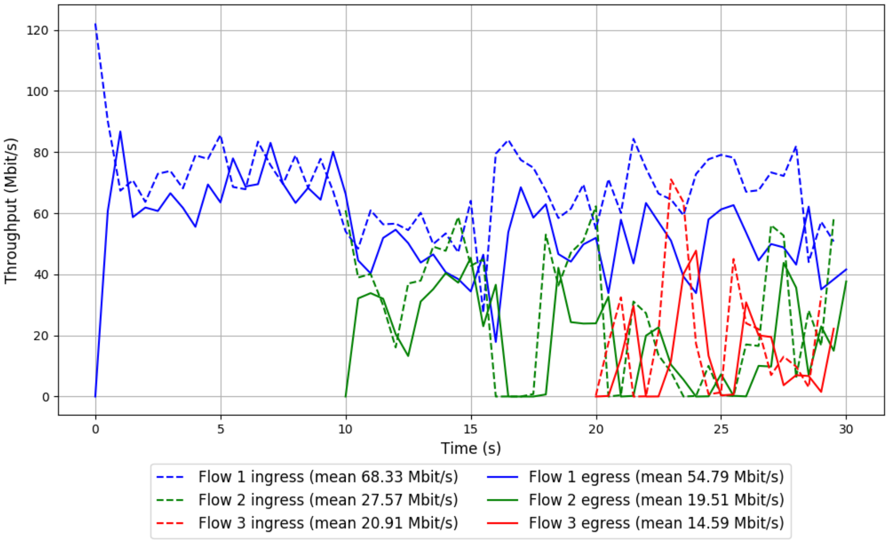


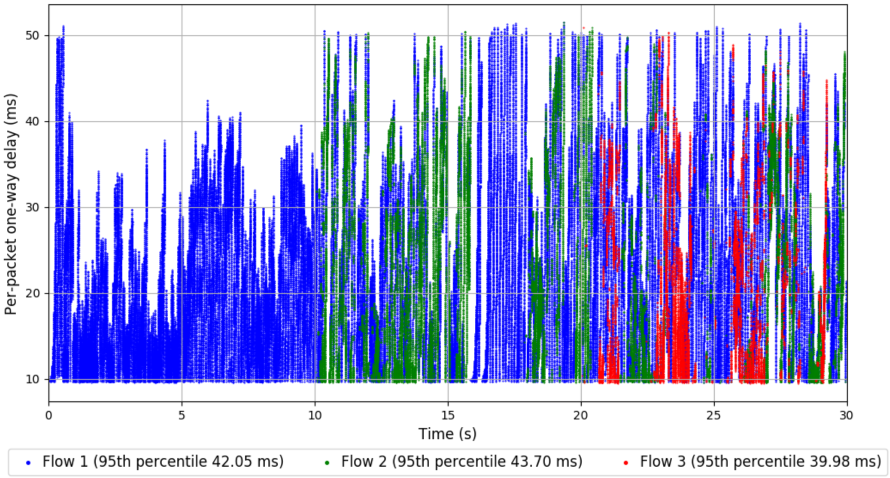
```
Run 8: Statistics of Verus

Start at: 2018-05-30 18:15:53
End at: 2018-05-30 18:16:23
Local clock offset: -1.751 ms
Remote clock offset: -0.307 ms

# Below is generated by plot.py at 2018-05-30 19:15:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.23 Mbit/s
95th percentile per-packet one-way delay: 42.365 ms
Loss rate: 22.35%
-- Flow 1:
Average throughput: 54.79 Mbit/s
95th percentile per-packet one-way delay: 42.047 ms
Loss rate: 19.78%
-- Flow 2:
Average throughput: 19.51 Mbit/s
95th percentile per-packet one-way delay: 43.698 ms
Loss rate: 29.25%
-- Flow 3:
Average throughput: 14.59 Mbit/s
95th percentile per-packet one-way delay: 39.977 ms
Loss rate: 30.00%
```

Run 8: Report of Verus — Data Link



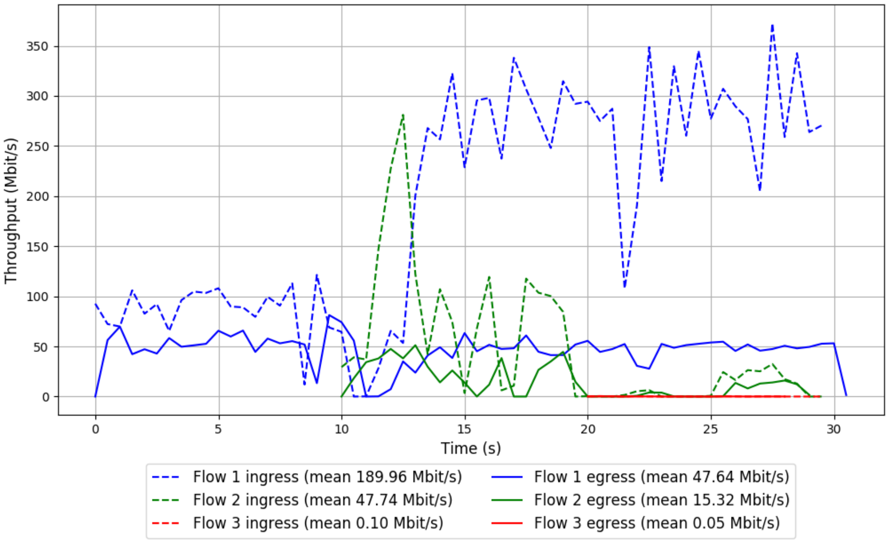


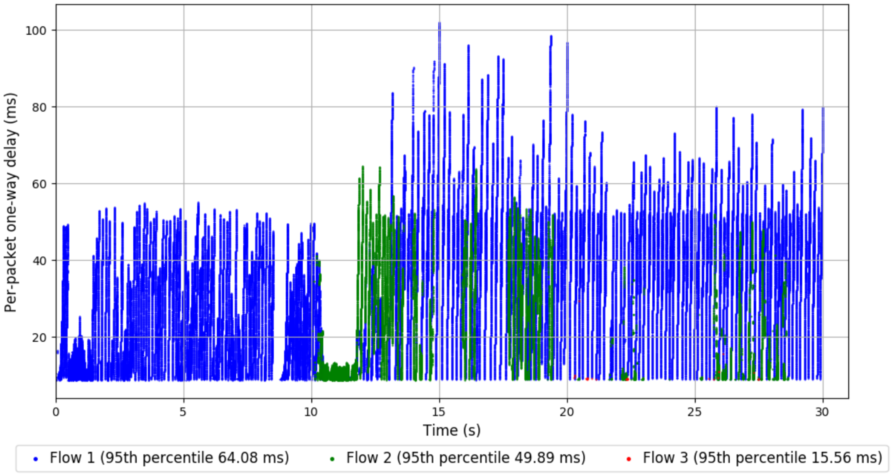
```
Run 9: Statistics of Verus

Start at: 2018-05-30 18:34:48
End at: 2018-05-30 18:35:18
Local clock offset: -2.038 ms
Remote clock offset: -5.032 ms

# Below is generated by plot.py at 2018-05-30 19:16:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.16 Mbit/s
95th percentile per-packet one-way delay: 62.180 ms
Loss rate: 74.15%
-- Flow 1:
Average throughput: 47.64 Mbit/s
95th percentile per-packet one-way delay: 64.075 ms
Loss rate: 74.86%
-- Flow 2:
Average throughput: 15.32 Mbit/s
95th percentile per-packet one-way delay: 49.890 ms
Loss rate: 69.83%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 15.559 ms
Loss rate: 63.41%
```

Run 9: Report of Verus — Data Link



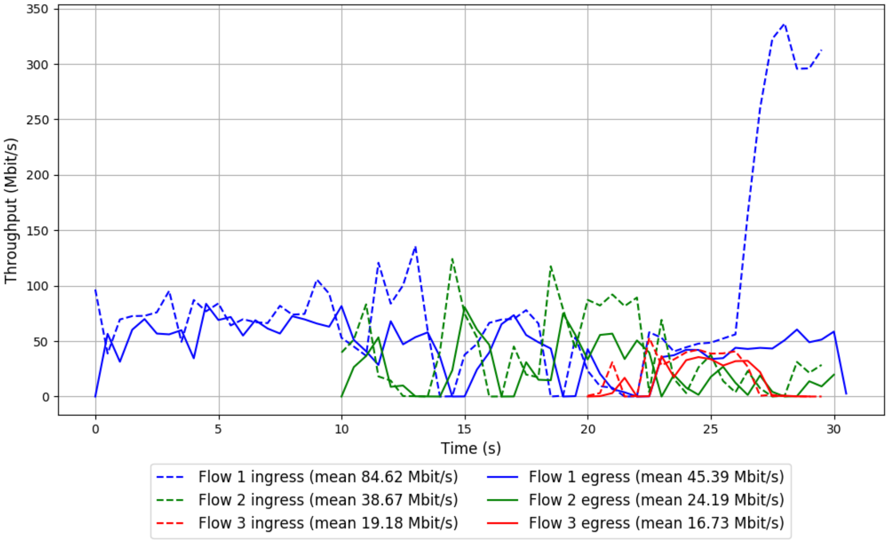


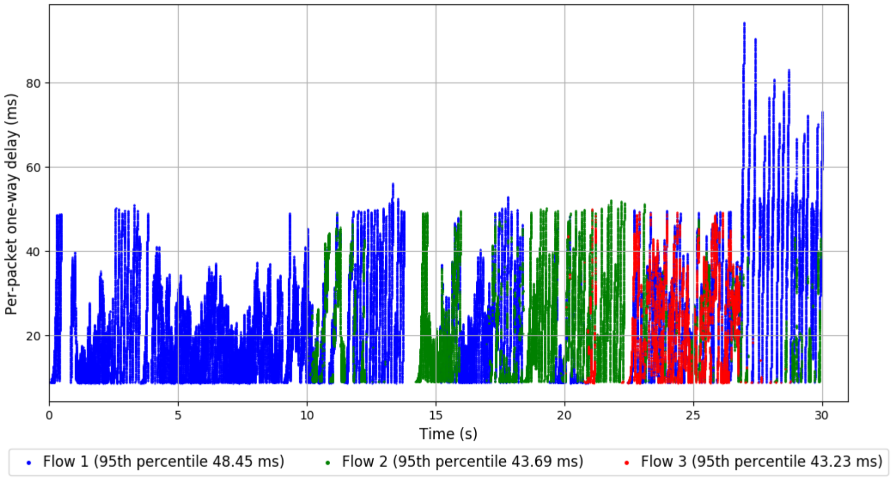
```
Run 10: Statistics of Verus

Start at: 2018-05-30 18:53:19
End at: 2018-05-30 18:53:49
Local clock offset: -1.765 ms
Remote clock offset: -7.594 ms

# Below is generated by plot.py at 2018-05-30 19:16:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.30 Mbit/s
95th percentile per-packet one-way delay: 46.580 ms
Loss rate: 43.07%
-- Flow 1:
Average throughput: 45.39 Mbit/s
95th percentile per-packet one-way delay: 48.448 ms
Loss rate: 46.25%
-- Flow 2:
Average throughput: 24.19 Mbit/s
95th percentile per-packet one-way delay: 43.686 ms
Loss rate: 37.56%
-- Flow 3:
Average throughput: 16.73 Mbit/s
95th percentile per-packet one-way delay: 43.234 ms
Loss rate: 23.13%
```

Run 10: Report of Verus — Data Link



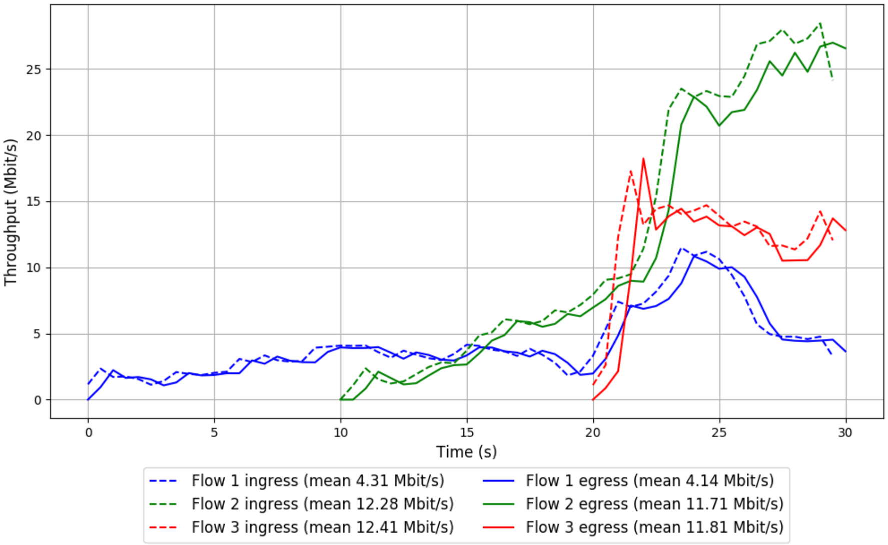


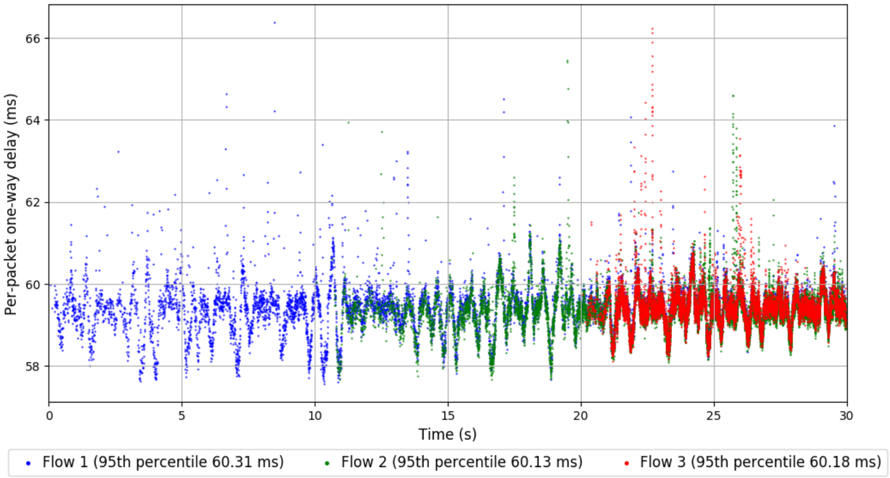
```
Run 1: Statistics of PCC-Vivace

Start at: 2018-05-30 15:55:44
End at: 2018-05-30 15:56:14
Local clock offset: 2.355 ms
Remote clock offset: 5.587 ms

# Below is generated by plot.py at 2018-05-30 19:16:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.83 Mbit/s
95th percentile per-packet one-way delay: 60.183 ms
Loss rate: 4.51%
-- Flow 1:
Average throughput: 4.14 Mbit/s
95th percentile per-packet one-way delay: 60.308 ms
Loss rate: 3.97%
-- Flow 2:
Average throughput: 11.71 Mbit/s
95th percentile per-packet one-way delay: 60.126 ms
Loss rate: 4.58%
-- Flow 3:
Average throughput: 11.81 Mbit/s
95th percentile per-packet one-way delay: 60.178 ms
Loss rate: 4.95%
```

Run 1: Report of PCC-Vivace — Data Link



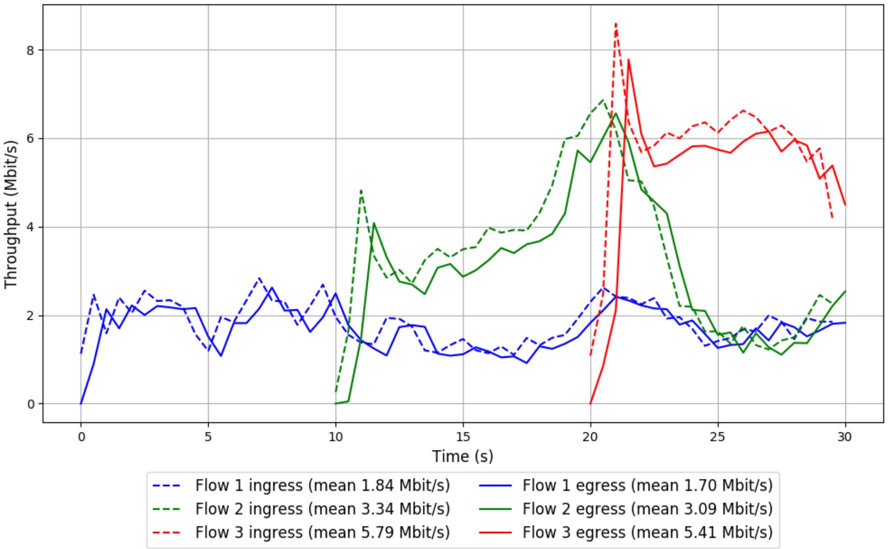


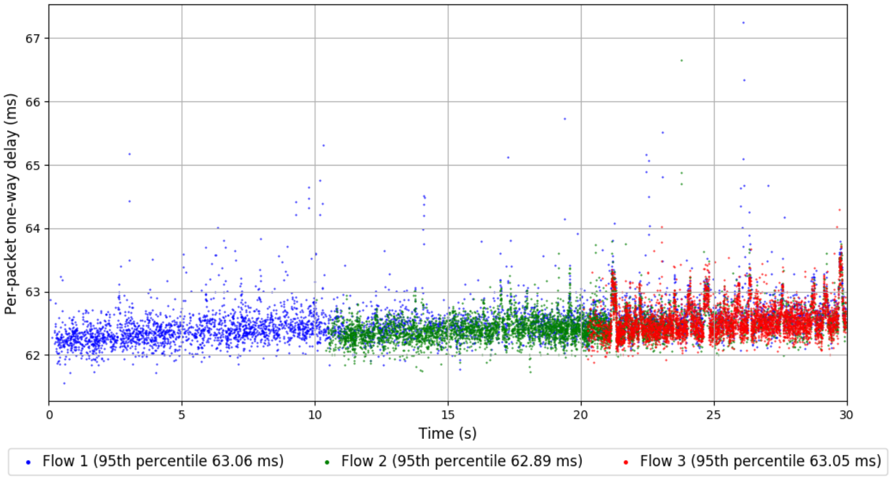
```
Run 2: Statistics of PCC-Vivace

Start at: 2018-05-30 16:15:15
End at: 2018-05-30 16:15:45
Local clock offset: -0.15 ms
Remote clock offset: -4.363 ms

# Below is generated by plot.py at 2018-05-30 19:16:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.54 Mbit/s
95th percentile per-packet one-way delay: 63.003 ms
Loss rate: 7.22%
-- Flow 1:
Average throughput: 1.70 Mbit/s
95th percentile per-packet one-way delay: 63.060 ms
Loss rate: 7.42%
-- Flow 2:
Average throughput: 3.09 Mbit/s
95th percentile per-packet one-way delay: 62.889 ms
Loss rate: 7.72%
-- Flow 3:
Average throughput: 5.41 Mbit/s
95th percentile per-packet one-way delay: 63.050 ms
Loss rate: 6.45%
```

Run 2: Report of PCC-Vivace — Data Link



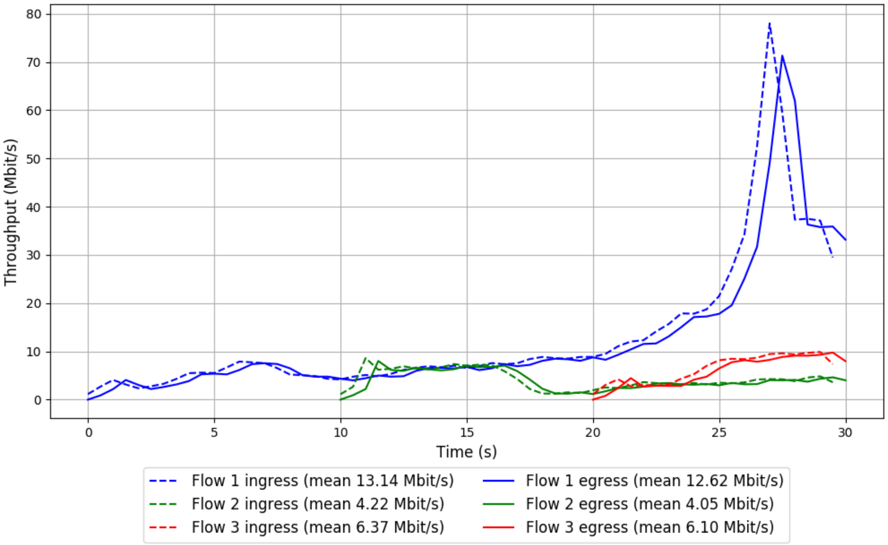


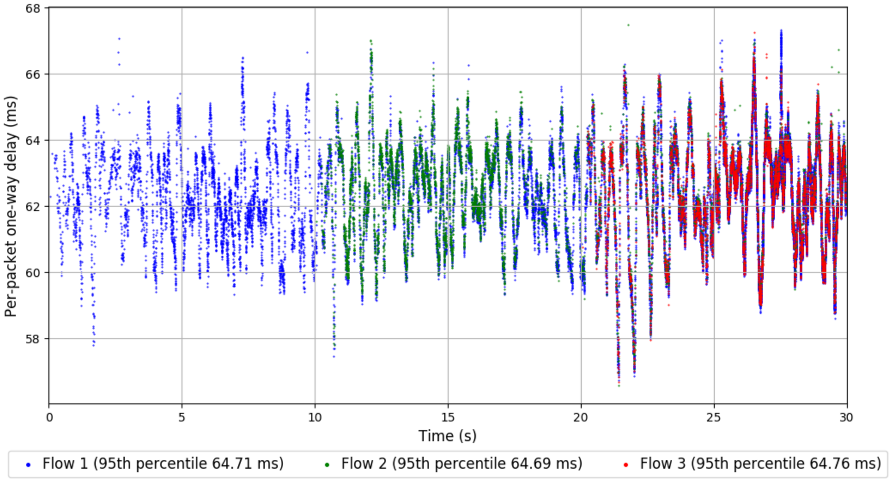
```
Run 3: Statistics of PCC-Vivace

Start at: 2018-05-30 16:34:22
End at: 2018-05-30 16:34:52
Local clock offset: -1.725 ms
Remote clock offset: -12.166 ms

# Below is generated by plot.py at 2018-05-30 19:16:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.32 Mbit/s
95th percentile per-packet one-way delay: 64.713 ms
Loss rate: 4.02%
-- Flow 1:
Average throughput: 12.62 Mbit/s
95th percentile per-packet one-way delay: 64.713 ms
Loss rate: 3.96%
-- Flow 2:
Average throughput: 4.05 Mbit/s
95th percentile per-packet one-way delay: 64.694 ms
Loss rate: 4.07%
-- Flow 3:
Average throughput: 6.10 Mbit/s
95th percentile per-packet one-way delay: 64.761 ms
Loss rate: 4.30%
```

Run 3: Report of PCC-Vivace — Data Link



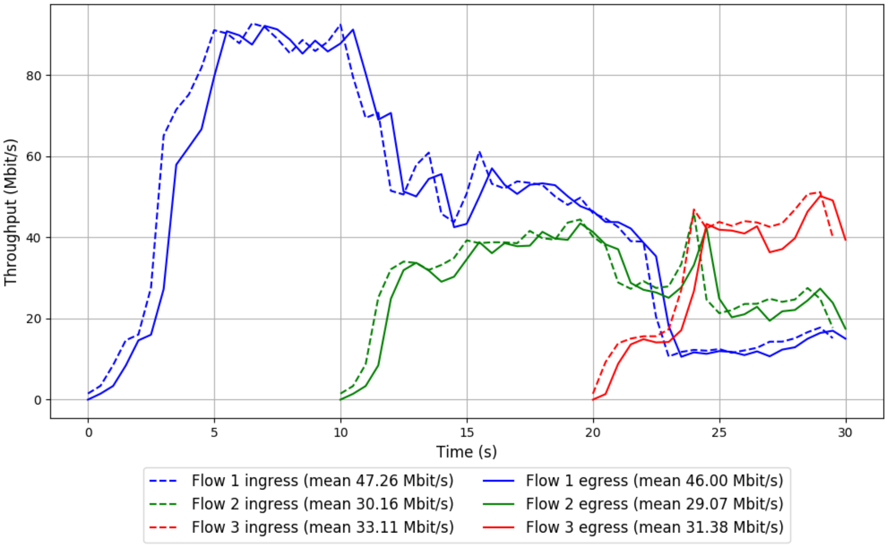


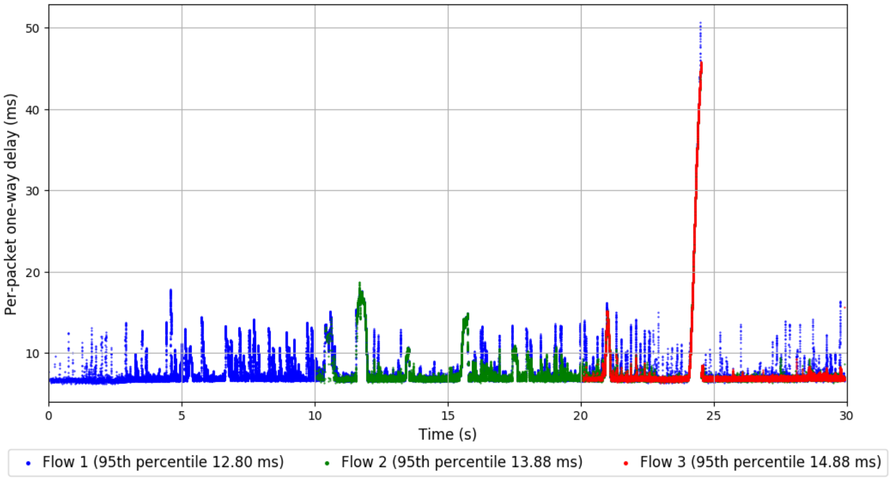
```
Run 4: Statistics of PCC-Vivace

Start at: 2018-05-30 16:54:12
End at: 2018-05-30 16:54:42
Local clock offset: 2.06 ms
Remote clock offset: -15.345 ms

# Below is generated by plot.py at 2018-05-30 19:16:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.68 Mbit/s
95th percentile per-packet one-way delay: 13.076 ms
Loss rate: 3.26%
-- Flow 1:
Average throughput: 46.00 Mbit/s
95th percentile per-packet one-way delay: 12.802 ms
Loss rate: 2.67%
-- Flow 2:
Average throughput: 29.07 Mbit/s
95th percentile per-packet one-way delay: 13.885 ms
Loss rate: 3.62%
-- Flow 3:
Average throughput: 31.38 Mbit/s
95th percentile per-packet one-way delay: 14.877 ms
Loss rate: 5.15%
```

Run 4: Report of PCC-Vivace — Data Link



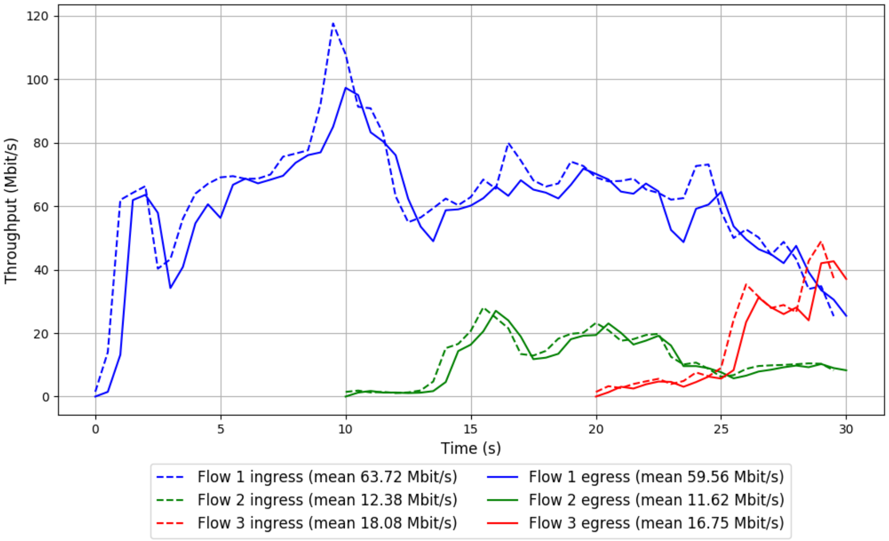


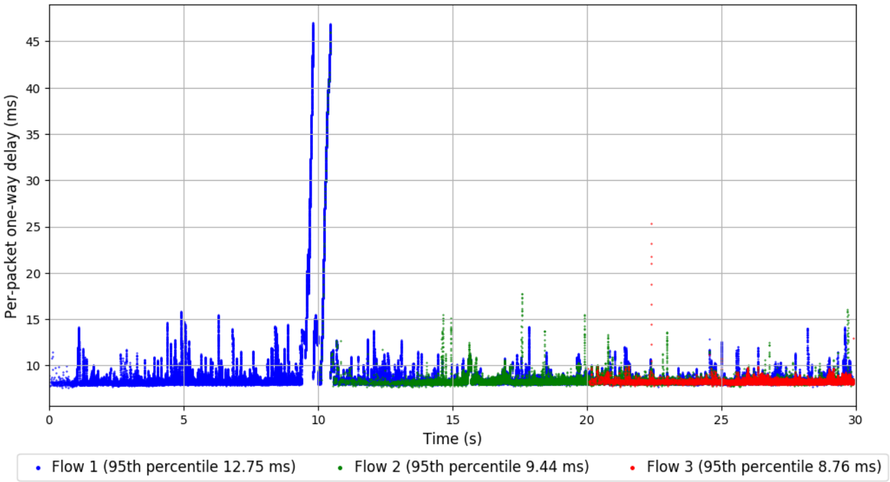
```
Run 5: Statistics of PCC-Vivace

Start at: 2018-05-30 17:13:00
End at: 2018-05-30 17:13:30
Local clock offset: 1.463 ms
Remote clock offset: -16.663 ms

# Below is generated by plot.py at 2018-05-30 19:16:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.81 Mbit/s
95th percentile per-packet one-way delay: 11.773 ms
Loss rate: 6.56%
-- Flow 1:
Average throughput: 59.56 Mbit/s
95th percentile per-packet one-way delay: 12.748 ms
Loss rate: 6.54%
-- Flow 2:
Average throughput: 11.62 Mbit/s
95th percentile per-packet one-way delay: 9.442 ms
Loss rate: 6.17%
-- Flow 3:
Average throughput: 16.75 Mbit/s
95th percentile per-packet one-way delay: 8.762 ms
Loss rate: 7.35%
```

Run 5: Report of PCC-Vivace — Data Link



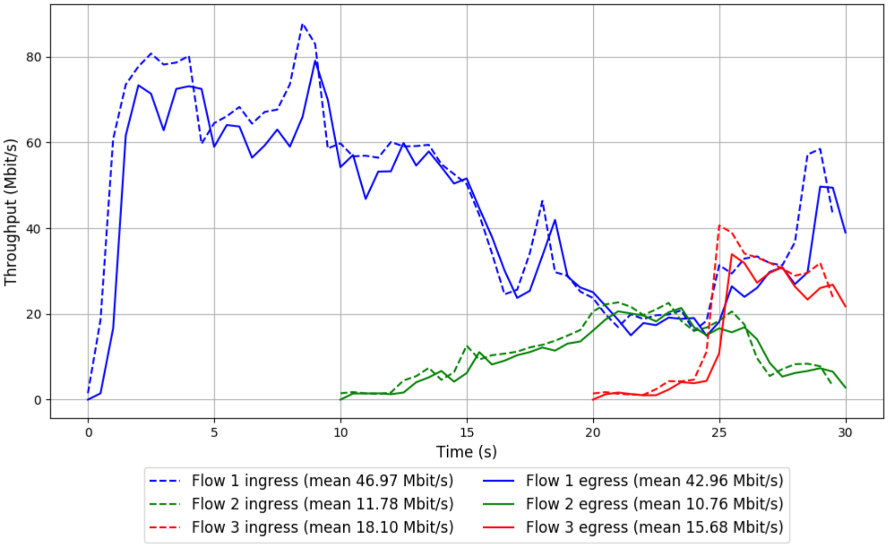


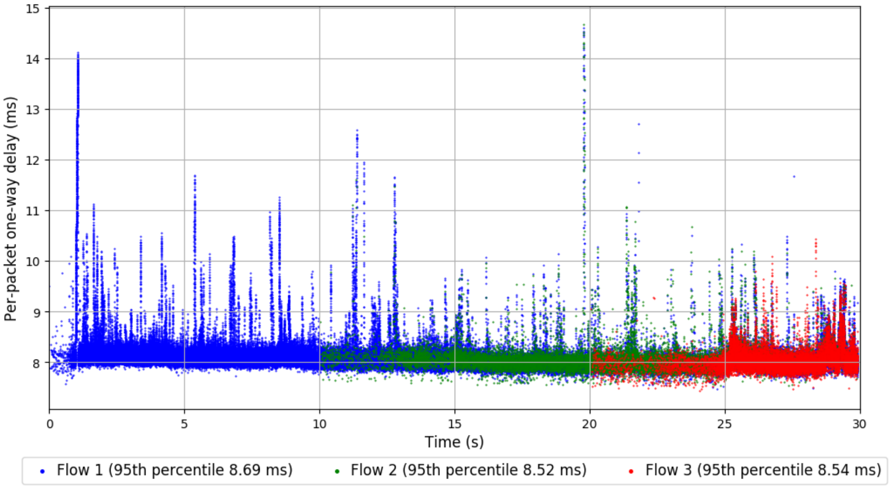
```
Run 6: Statistics of PCC-Vivace

Start at: 2018-05-30 17:32:43
End at: 2018-05-30 17:33:13
Local clock offset: 0.634 ms
Remote clock offset: -3.229 ms

# Below is generated by plot.py at 2018-05-30 19:16:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.29 Mbit/s
95th percentile per-packet one-way delay: 8.645 ms
Loss rate: 9.03%
-- Flow 1:
Average throughput: 42.96 Mbit/s
95th percentile per-packet one-way delay: 8.689 ms
Loss rate: 8.53%
-- Flow 2:
Average throughput: 10.76 Mbit/s
95th percentile per-packet one-way delay: 8.522 ms
Loss rate: 8.72%
-- Flow 3:
Average throughput: 15.68 Mbit/s
95th percentile per-packet one-way delay: 8.544 ms
Loss rate: 13.38%
```

Run 6: Report of PCC-Vivace — Data Link



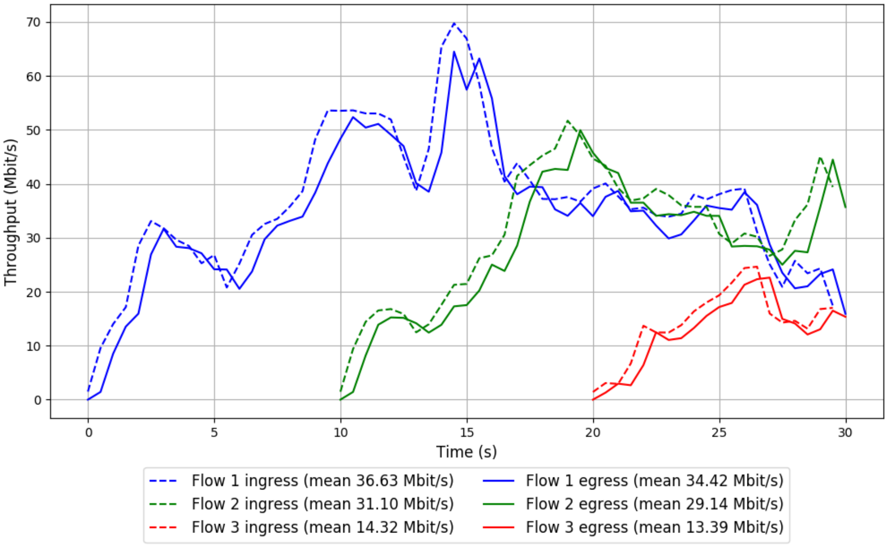


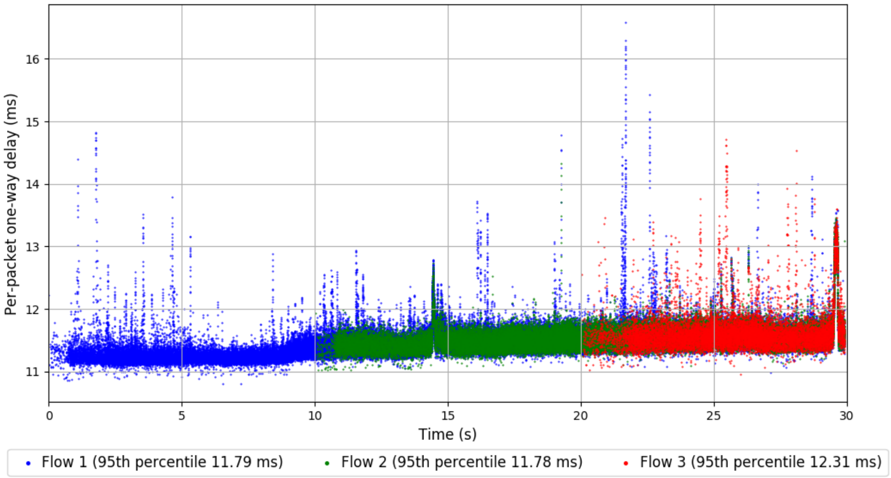
```
Run 7: Statistics of PCC-Vivace

Start at: 2018-05-30 17:51:24
End at: 2018-05-30 17:51:54
Local clock offset: -1.881 ms
Remote clock offset: 1.788 ms

# Below is generated by plot.py at 2018-05-30 19:16:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.22 Mbit/s
95th percentile per-packet one-way delay: 11.815 ms
Loss rate: 6.16%
-- Flow 1:
Average throughput: 34.42 Mbit/s
95th percentile per-packet one-way delay: 11.795 ms
Loss rate: 6.04%
-- Flow 2:
Average throughput: 29.14 Mbit/s
95th percentile per-packet one-way delay: 11.783 ms
Loss rate: 6.29%
-- Flow 3:
Average throughput: 13.39 Mbit/s
95th percentile per-packet one-way delay: 12.314 ms
Loss rate: 6.47%
```

Run 7: Report of PCC-Vivace — Data Link



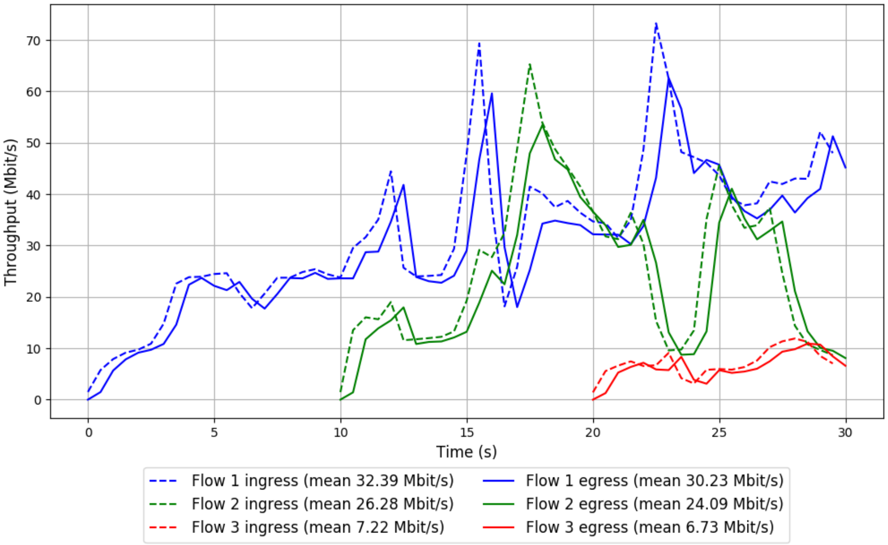


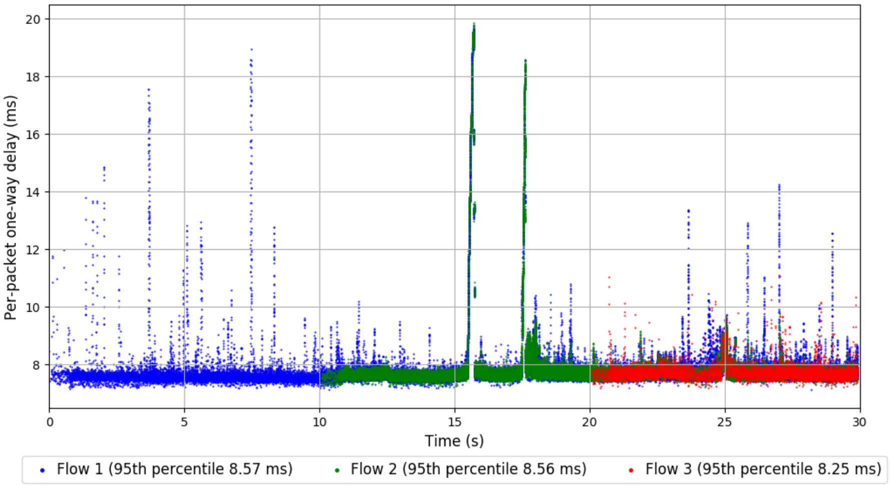
```
Run 8: Statistics of PCC-Vivace

Start at: 2018-05-30 18:10:10
End at: 2018-05-30 18:10:40
Local clock offset: 1.035 ms
Remote clock offset: -0.415 ms

# Below is generated by plot.py at 2018-05-30 19:16:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.47 Mbit/s
95th percentile per-packet one-way delay: 8.544 ms
Loss rate: 7.23%
-- Flow 1:
Average throughput: 30.23 Mbit/s
95th percentile per-packet one-way delay: 8.569 ms
Loss rate: 6.68%
-- Flow 2:
Average throughput: 24.09 Mbit/s
95th percentile per-packet one-way delay: 8.558 ms
Loss rate: 8.30%
-- Flow 3:
Average throughput: 6.73 Mbit/s
95th percentile per-packet one-way delay: 8.250 ms
Loss rate: 6.90%
```

Run 8: Report of PCC-Vivace — Data Link



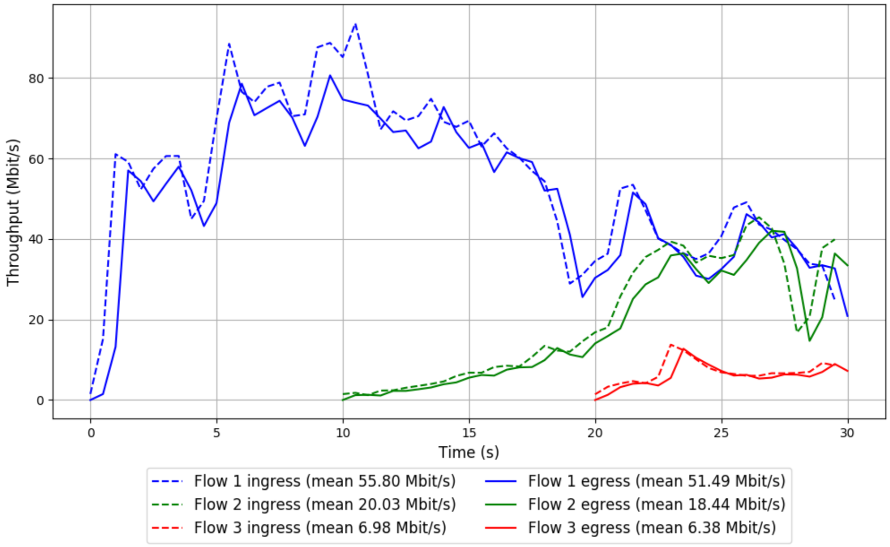


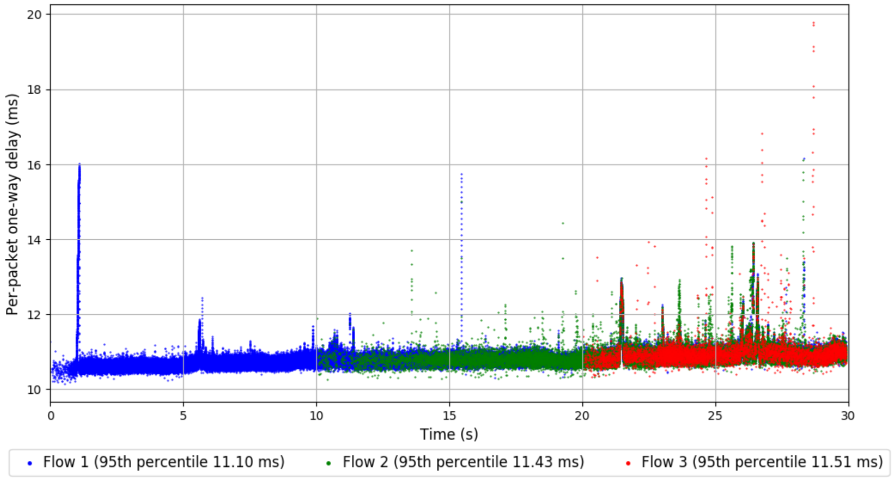
```
Run 9: Statistics of PCC-Vivace

Start at: 2018-05-30 18:29:11
End at: 2018-05-30 18:29:41
Local clock offset: -1.897 ms
Remote clock offset: -1.641 ms

# Below is generated by plot.py at 2018-05-30 19:16:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.87 Mbit/s
95th percentile per-packet one-way delay: 11.174 ms
Loss rate: 7.79%
-- Flow 1:
Average throughput: 51.49 Mbit/s
95th percentile per-packet one-way delay: 11.095 ms
Loss rate: 7.73%
-- Flow 2:
Average throughput: 18.44 Mbit/s
95th percentile per-packet one-way delay: 11.434 ms
Loss rate: 7.92%
-- Flow 3:
Average throughput: 6.38 Mbit/s
95th percentile per-packet one-way delay: 11.509 ms
Loss rate: 8.64%
```

Run 9: Report of PCC-Vivace — Data Link



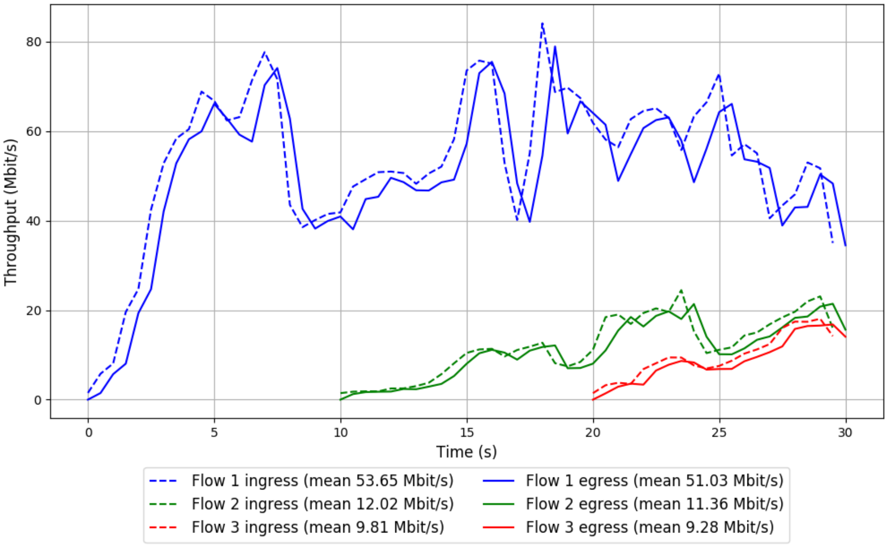


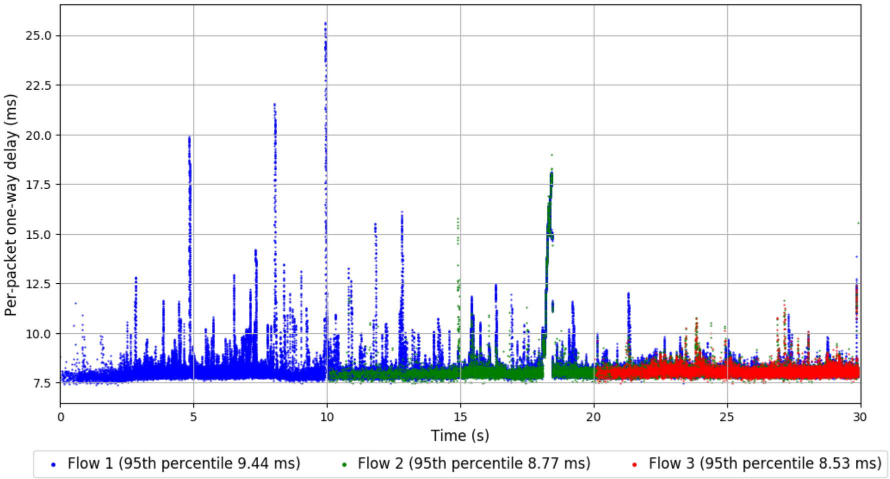
```
Run 10: Statistics of PCC-Vivace

Start at: 2018-05-30 18:47:41
End at: 2018-05-30 18:48:11
Local clock offset: -0.334 ms
Remote clock offset: -6.896 ms

# Below is generated by plot.py at 2018-05-30 19:16:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.64 Mbit/s
95th percentile per-packet one-way delay: 9.282 ms
Loss rate: 4.98%
-- Flow 1:
Average throughput: 51.03 Mbit/s
95th percentile per-packet one-way delay: 9.443 ms
Loss rate: 4.89%
-- Flow 2:
Average throughput: 11.36 Mbit/s
95th percentile per-packet one-way delay: 8.774 ms
Loss rate: 5.42%
-- Flow 3:
Average throughput: 9.28 Mbit/s
95th percentile per-packet one-way delay: 8.525 ms
Loss rate: 5.41%
```

Run 10: Report of PCC-Vivace — Data Link



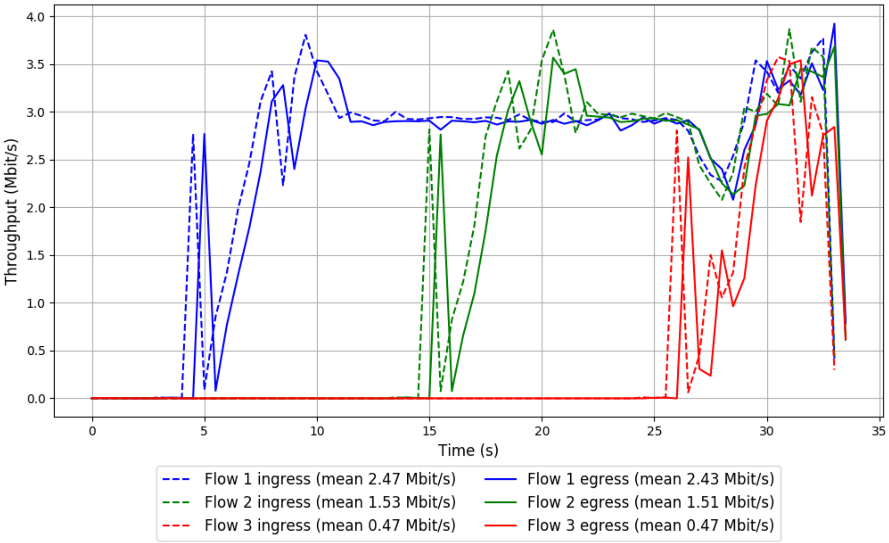


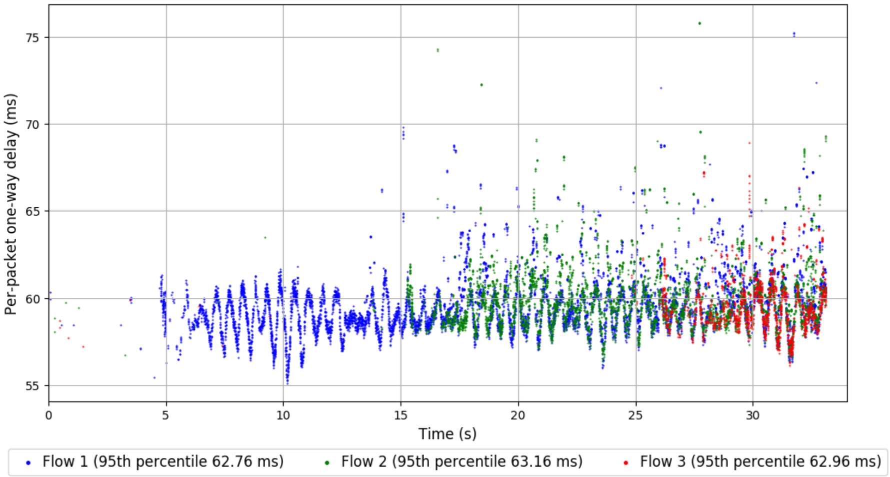
```
Run 1: Statistics of WebRTC media

Start at: 2018-05-30 15:49:49
End at: 2018-05-30 15:50:19
Local clock offset: 0.826 ms
Remote clock offset: 4.066 ms

# Below is generated by plot.py at 2018-05-30 19:16:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.39 Mbit/s
95th percentile per-packet one-way delay: 62.923 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 62.755 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 1.51 Mbit/s
95th percentile per-packet one-way delay: 63.160 ms
Loss rate: 1.89%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 62.961 ms
Loss rate: 1.59%
```

Run 1: Report of WebRTC media — Data Link



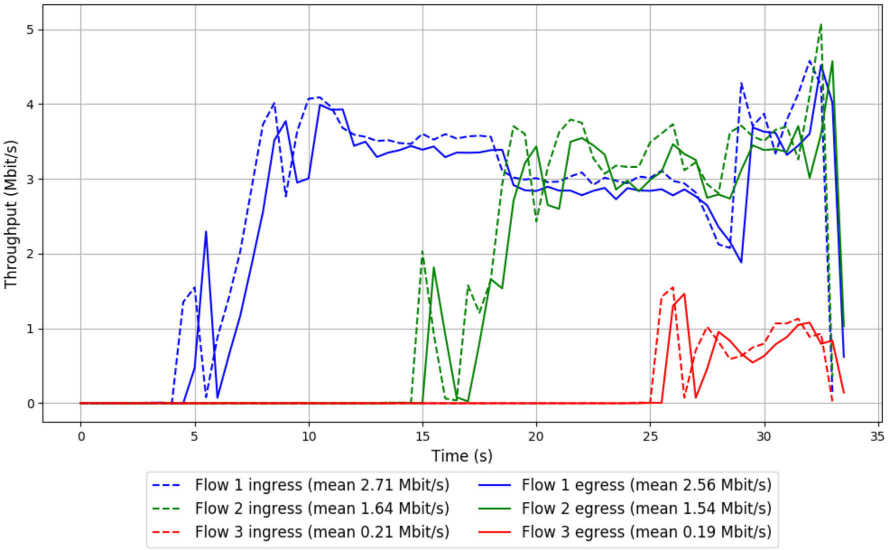


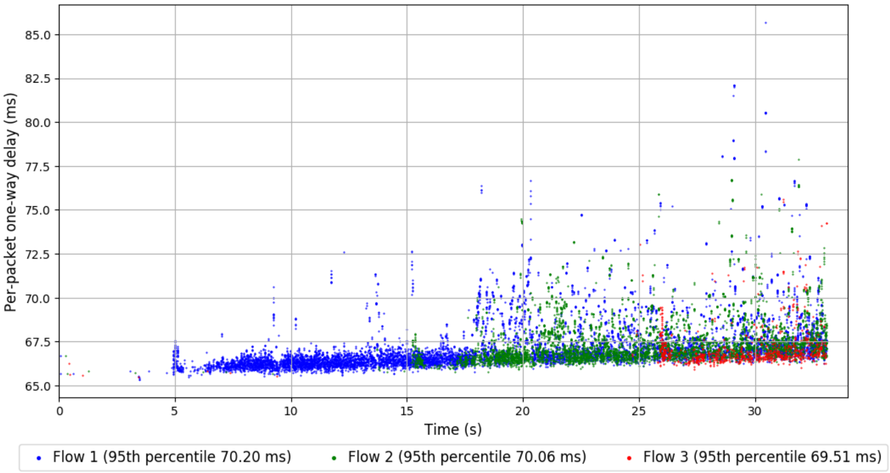
```
Run 2: Statistics of WebRTC media

Start at: 2018-05-30 16:08:47
End at: 2018-05-30 16:09:17
Local clock offset: 0.41 ms
Remote clock offset: 8.116 ms

# Below is generated by plot.py at 2018-05-30 19:16:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.28 Mbit/s
95th percentile per-packet one-way delay: 70.123 ms
Loss rate: 5.82%
-- Flow 1:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 70.197 ms
Loss rate: 5.41%
-- Flow 2:
Average throughput: 1.54 Mbit/s
95th percentile per-packet one-way delay: 70.064 ms
Loss rate: 6.33%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 69.506 ms
Loss rate: 7.23%
```

Run 2: Report of WebRTC media — Data Link



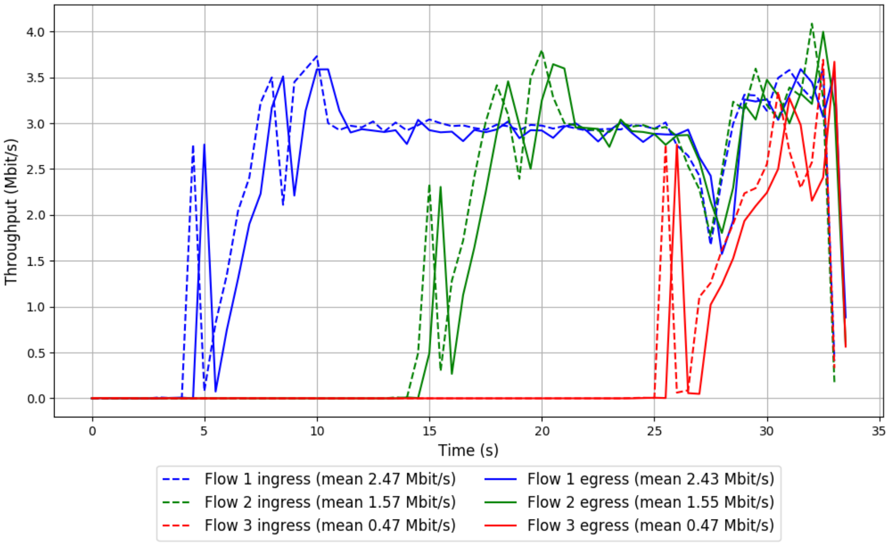


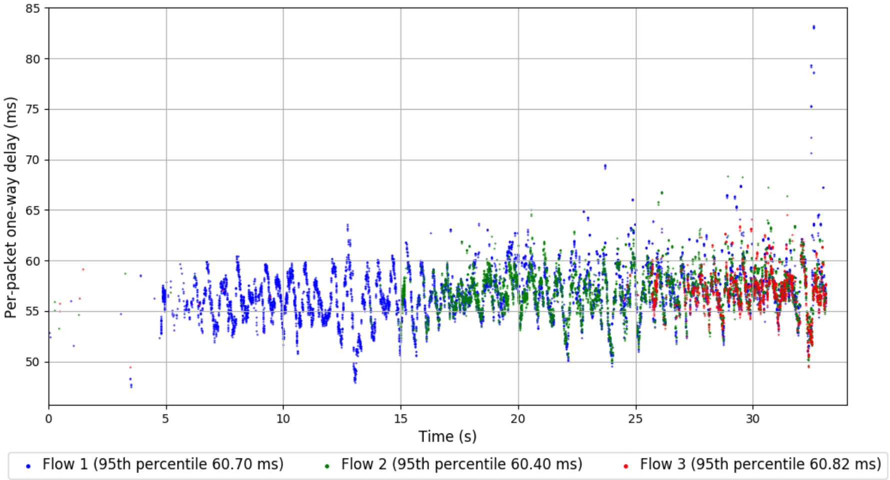
```
Run 3: Statistics of WebRTC media

Start at: 2018-05-30 16:28:18
End at: 2018-05-30 16:28:48
Local clock offset: 2.319 ms
Remote clock offset: -10.978 ms

# Below is generated by plot.py at 2018-05-30 19:16:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.43 Mbit/s
95th percentile per-packet one-way delay: 60.653 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 60.701 ms
Loss rate: 1.61%
-- Flow 2:
Average throughput: 1.55 Mbit/s
95th percentile per-packet one-way delay: 60.401 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 60.817 ms
Loss rate: 1.06%
```

Run 3: Report of WebRTC media — Data Link



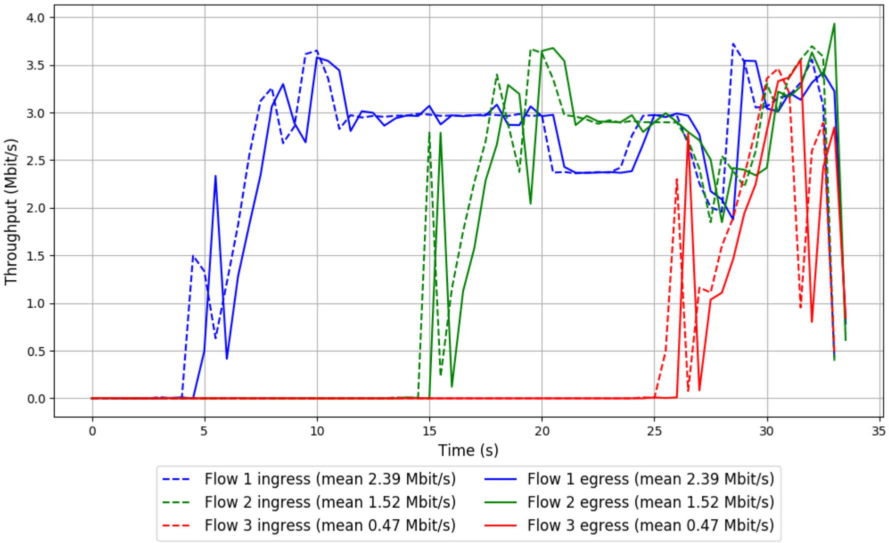


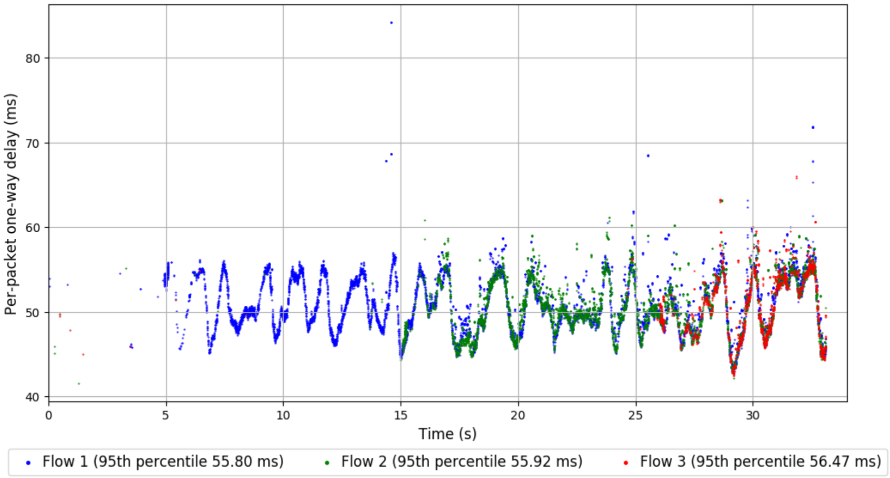
```
Run 4: Statistics of WebRTC media

Start at: 2018-05-30 16:47:52
End at: 2018-05-30 16:48:22
Local clock offset: 3.099 ms
Remote clock offset: -14.357 ms

# Below is generated by plot.py at 2018-05-30 19:16:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.36 Mbit/s
95th percentile per-packet one-way delay: 55.919 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 55.795 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 1.52 Mbit/s
95th percentile per-packet one-way delay: 55.922 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 56.471 ms
Loss rate: 0.33%
```

Run 4: Report of WebRTC media — Data Link



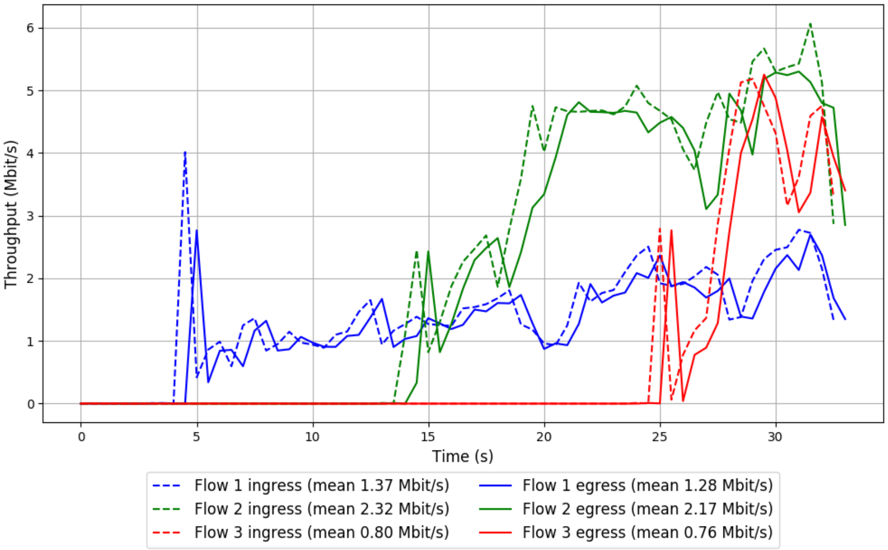


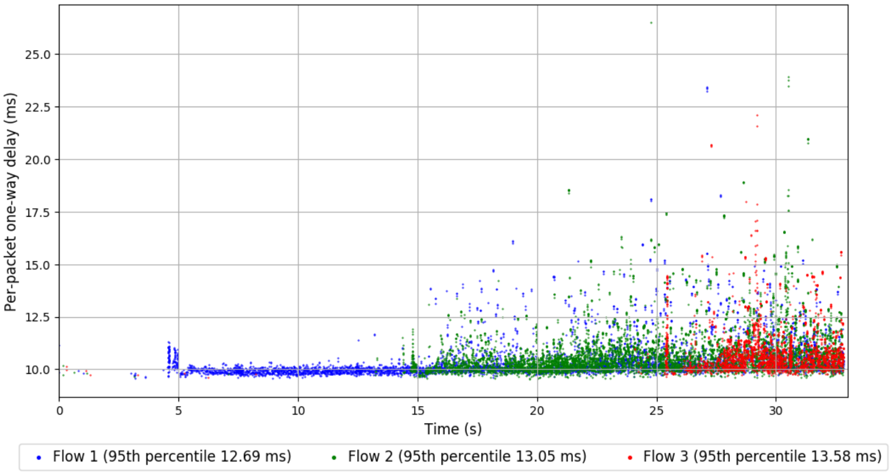
```
Run 5: Statistics of WebRTC media

Start at: 2018-05-30 17:07:10
End at: 2018-05-30 17:07:40
Local clock offset: -0.227 ms
Remote clock offset: -15.709 ms

# Below is generated by plot.py at 2018-05-30 19:16:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 13.000 ms
Loss rate: 6.07%
-- Flow 1:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 12.694 ms
Loss rate: 6.60%
-- Flow 2:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 13.052 ms
Loss rate: 6.29%
-- Flow 3:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 13.576 ms
Loss rate: 4.51%
```

Run 5: Report of WebRTC media — Data Link



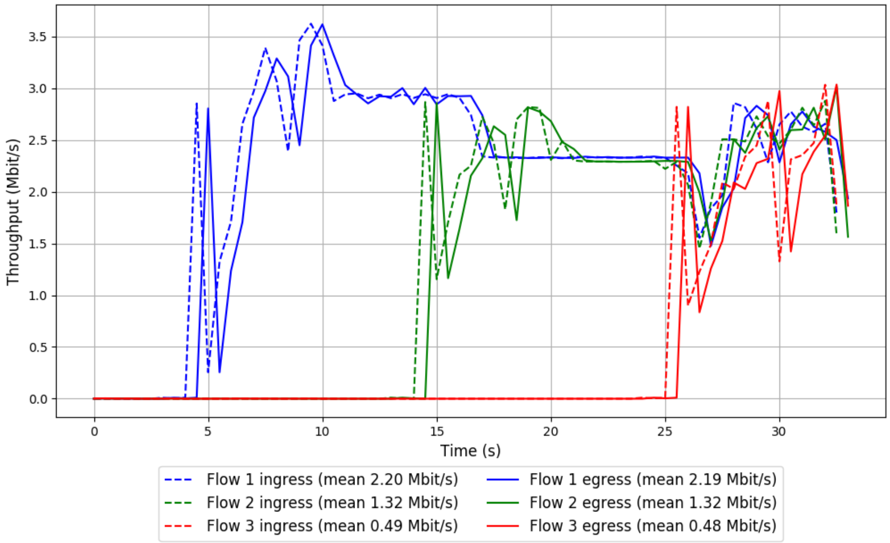


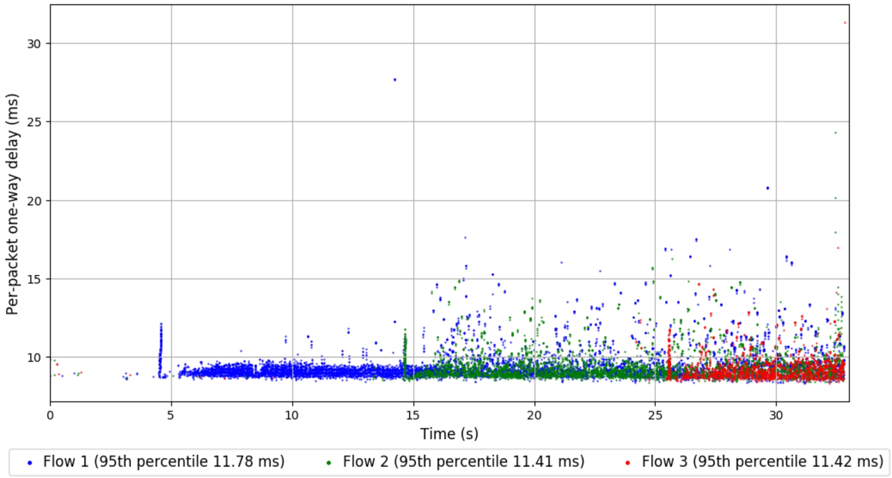
```
Run 6: Statistics of WebRTC media

Start at: 2018-05-30 17:26:17
End at: 2018-05-30 17:26:47
Local clock offset: 0.586 ms
Remote clock offset: -5.807 ms

# Below is generated by plot.py at 2018-05-30 19:16:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.99 Mbit/s
95th percentile per-packet one-way delay: 11.575 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 11.781 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 11.407 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 11.416 ms
Loss rate: 0.12%
```

Run 6: Report of WebRTC media — Data Link



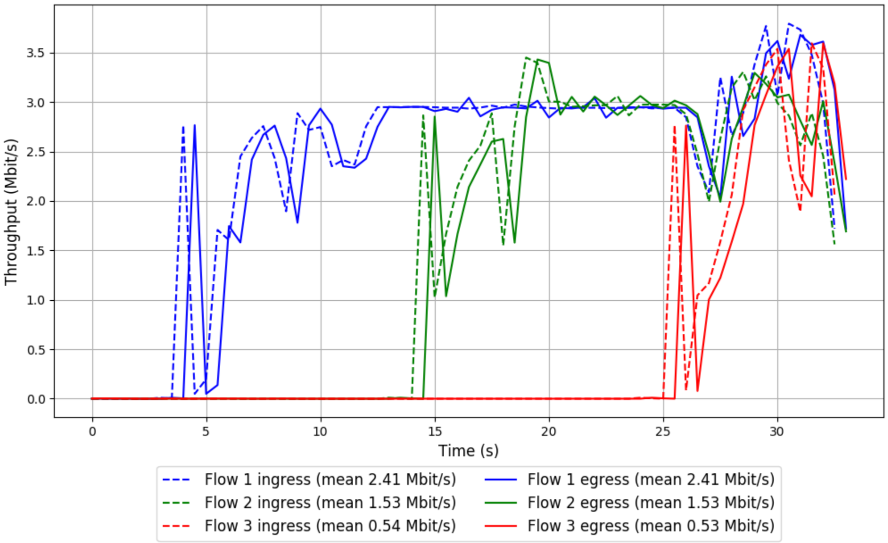


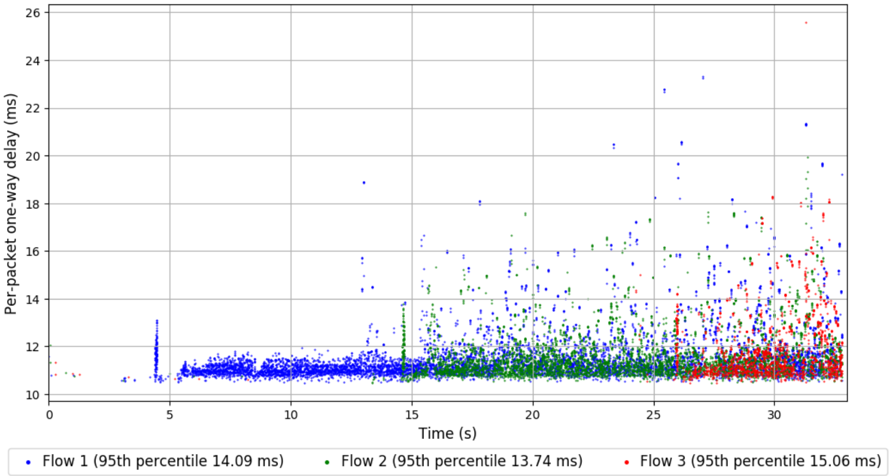
```
Run 7: Statistics of WebRTC media

Start at: 2018-05-30 17:45:33
End at: 2018-05-30 17:46:03
Local clock offset: -0.656 ms
Remote clock offset: 1.857 ms

# Below is generated by plot.py at 2018-05-30 19:16:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.47 Mbit/s
95th percentile per-packet one-way delay: 14.086 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 14.090 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 13.742 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 15.065 ms
Loss rate: 0.97%
```

Run 7: Report of WebRTC media — Data Link



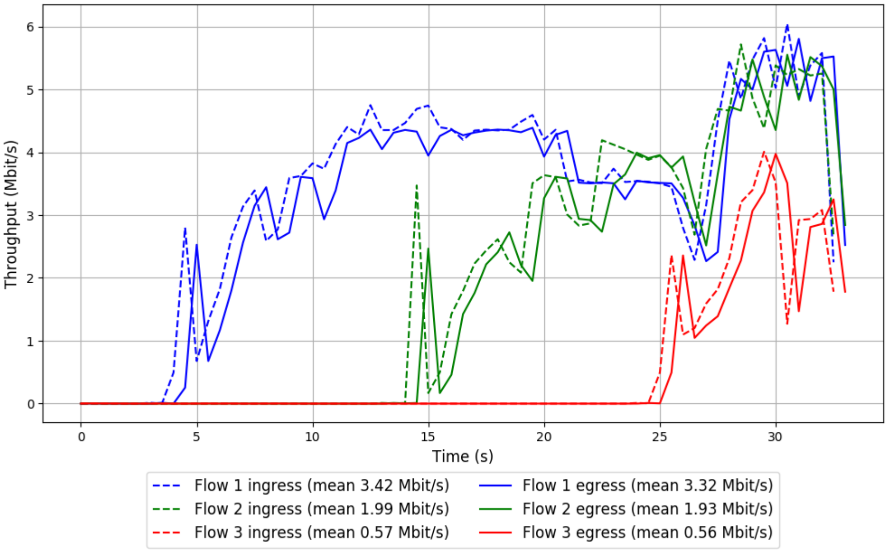


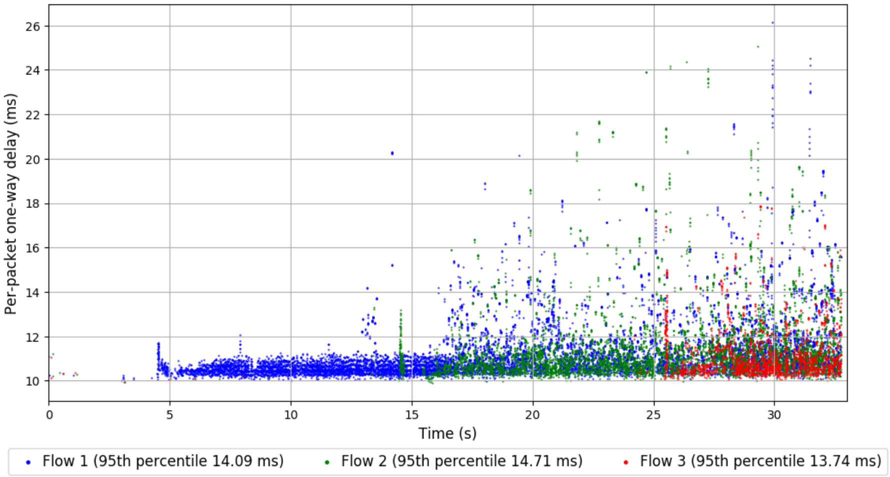
```
Run 8: Statistics of WebRTC media

Start at: 2018-05-30 18:04:17
End at: 2018-05-30 18:04:47
Local clock offset: -1.106 ms
Remote clock offset: -0.39 ms

# Below is generated by plot.py at 2018-05-30 19:16:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.80 Mbit/s
95th percentile per-packet one-way delay: 14.266 ms
Loss rate: 2.71%
-- Flow 1:
Average throughput: 3.32 Mbit/s
95th percentile per-packet one-way delay: 14.092 ms
Loss rate: 2.92%
-- Flow 2:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 14.710 ms
Loss rate: 2.92%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 13.745 ms
Loss rate: 0.75%
```

Run 8: Report of WebRTC media — Data Link



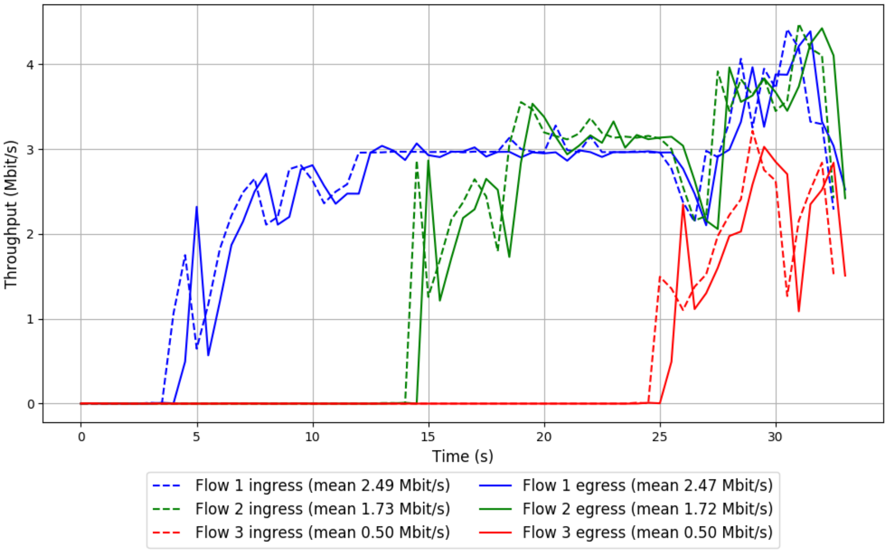


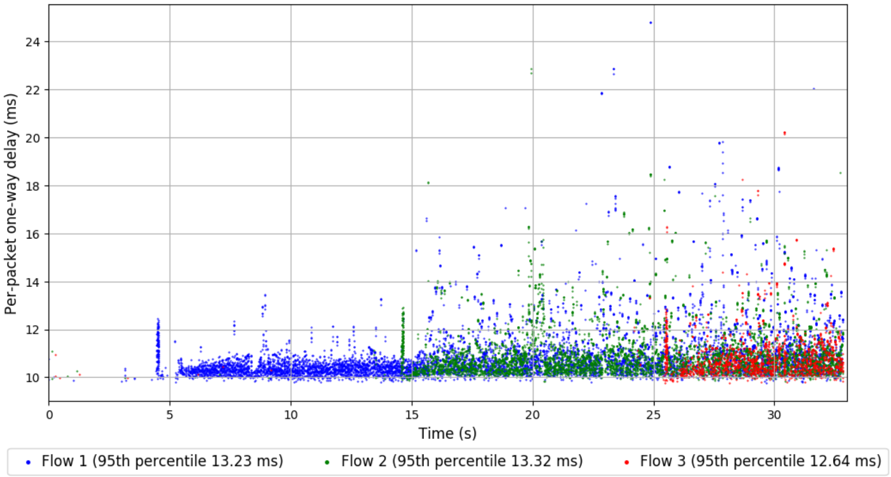
```
Run 9: Statistics of WebRTC media

Start at: 2018-05-30 18:23:19
End at: 2018-05-30 18:23:49
Local clock offset: -2.365 ms
Remote clock offset: 0.478 ms

# Below is generated by plot.py at 2018-05-30 19:16:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.67 Mbit/s
95th percentile per-packet one-way delay: 13.222 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 2.47 Mbit/s
95th percentile per-packet one-way delay: 13.226 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 1.72 Mbit/s
95th percentile per-packet one-way delay: 13.322 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 12.637 ms
Loss rate: 0.11%
```

Run 9: Report of WebRTC media — Data Link



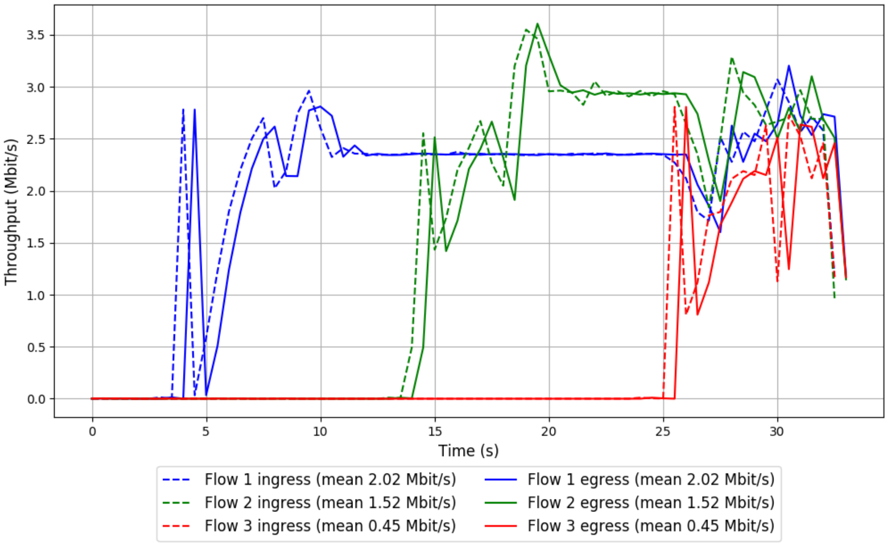


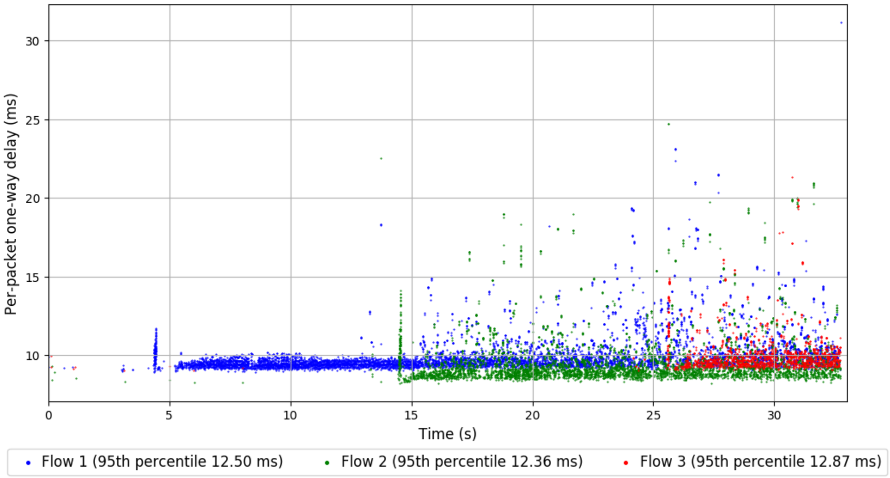
```
Run 10: Statistics of WebRTC media

Start at: 2018-05-30 18:41:53
End at: 2018-05-30 18:42:23
Local clock offset: -2.163 ms
Remote clock offset: -6.959 ms

# Below is generated by plot.py at 2018-05-30 19:16:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.98 Mbit/s
95th percentile per-packet one-way delay: 12.523 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 12.497 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 1.52 Mbit/s
95th percentile per-packet one-way delay: 12.364 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 12.872 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link


Throughput (Mbit/s)
Time (s)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
0
5
10
15
20
25
30
Flow 1 ingress (mean 2.02 Mbit/s)
Flow 1 egress (mean 2.02 Mbit/s)
Flow 2 ingress (mean 1.52 Mbit/s)
Flow 2 egress (mean 1.52 Mbit/s)
Flow 3 ingress (mean 0.45 Mbit/s)
Flow 3 egress (mean 0.45 Mbit/s)


Per-packet one-way delay (ms)
Time (s)
10
15
20
25
30
0
5
10
15
20
25
30
Flow 1 (95th percentile 12.50 ms)
Flow 2 (95th percentile 12.36 ms)
Flow 3 (95th percentile 12.87 ms)