Pantheon Report

Generated at 2018-01-17 06:36:23 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

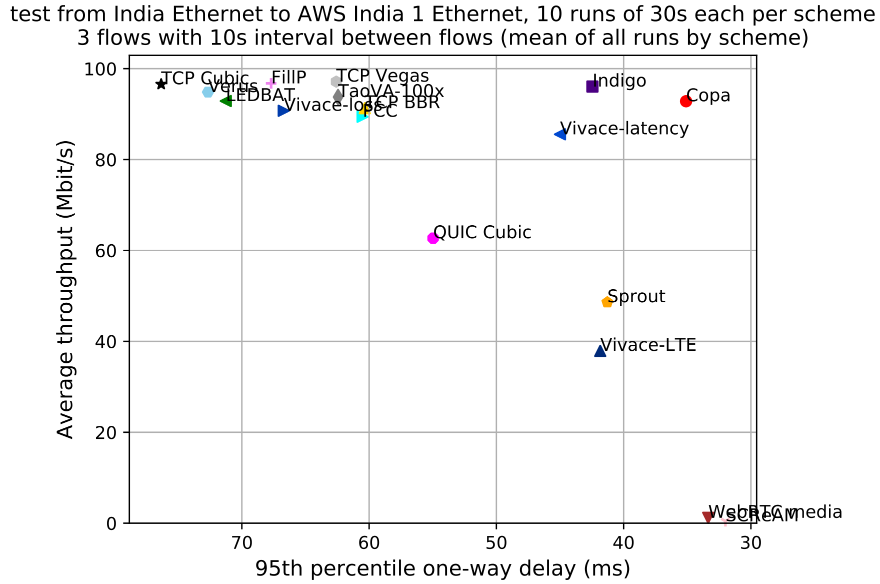
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

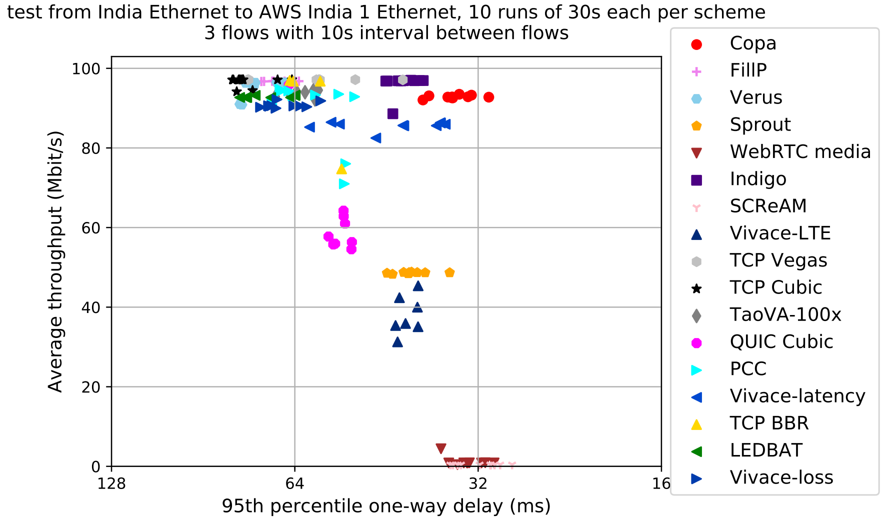
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

Tested BBR with qdisc of Fair Queuing (`fq`), and other schemes with the default Linux qdisc (`pfifo_fast`).

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

```
Git summary:
branch: master @ 386976fcf771de1359acd909bfbb98a156d79009
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
 M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
 M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
 M receiver/src/buffer.h
 M receiver/src/core.cpp
 M sender/src/buffer.h
 M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
 M src/examples/cellsim.cc
 M src/examples/sproutbt2.cc
 M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
 M src/verus.hpp
 M tools/plot.py
third_party/vivace @ 423cbca3e8ea1d599e7b5cf725835e8a2b6bfac6
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

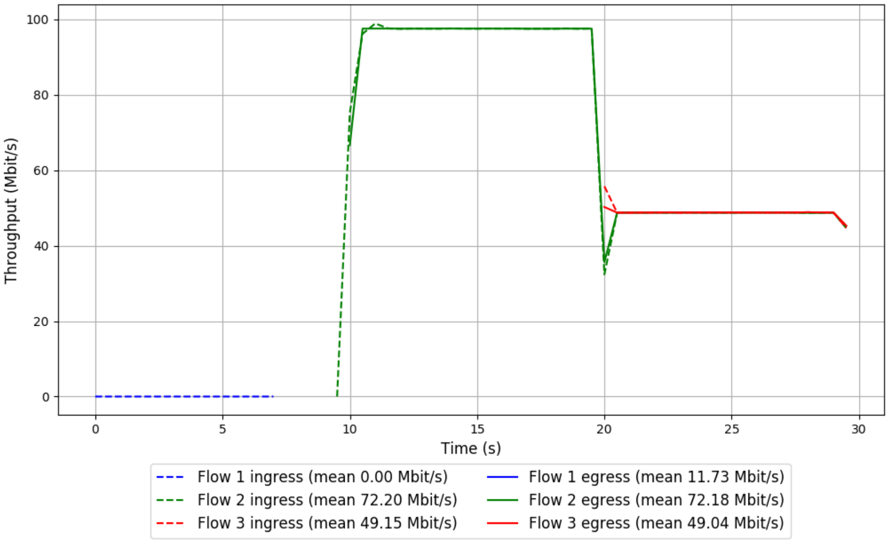

test from India Ethernet to AWS India 1 Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)
Average throughput (Mbit/s)
95th percentile one-way delay (ms)
100
80
60
40
20
0
70
60
50
40
30
TCP Cubic
Verus
LEDBAT
FillP
Vivace-loss
TCP Vegas
TaoVA-100x
TCP BBR
PCC
Indigo
Copa
Vivace-latency
QUIC Cubic
Sprout
Vivace-LTE
WebRTC media
SCReAM

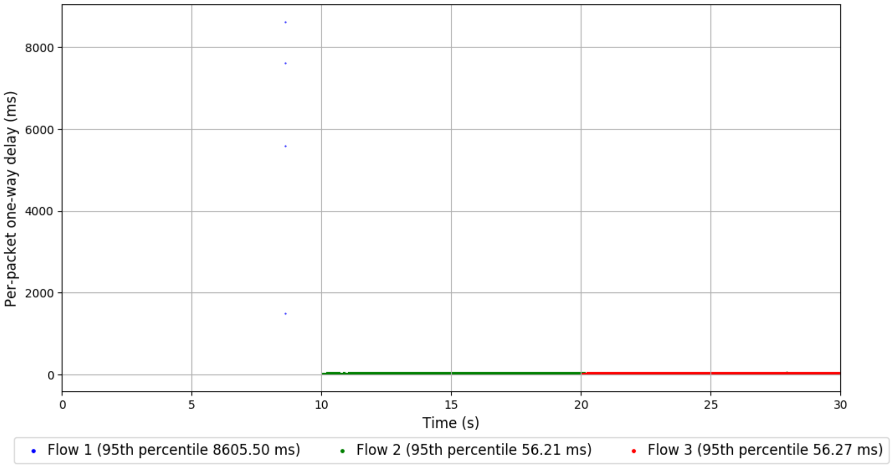

test from India Ethernet to AWS India 1 Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows
Average throughput (Mbit/s)
95th percentile one-way delay (ms)
100
80
60
40
20
0
128
64
32
16
Copa
FillP
Verus
Sprout
WebRTC media
Indigo
SCReAM
Vivace-LTE
TCP Vegas
TCP Cubic
TaoVA-100x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

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	4	40.22	47.22	44.76	54.12	61.84	57.34	0.07	0.20	0.51
TCP Cubic	10	58.67	40.55	32.83	71.74	69.63	69.72	0.13	0.32	0.83
LEDBAT	8	56.54	40.87	27.38	70.86	63.20	68.94	0.11	0.26	0.74
PCC	10	58.01	46.23	26.12	1003.96	59.84	55.18	0.05	0.14	0.32
QUIC Cubic	9	20.33	62.65	43.45	35.05	54.92	55.05	0.01	0.18	0.54
SCReAM	10	0.21	0.21	0.22	32.01	32.00	31.99	0.10	0.16	0.11
WebRTC media	10	0.28	0.21	1.34	33.82	34.33	33.03	0.00	0.00	0.28
Sprout	10	24.44	24.29	24.03	41.00	40.85	41.96	0.09	0.17	0.34
TaoVA-100x	7	58.94	39.63	32.71	59.84	62.82	60.50	0.10	0.23	0.67
TCP Vegas	8	59.89	39.03	38.54	60.42	52.84	56.91	0.08	0.12	0.63
Verus	10	57.30	41.05	31.59	66.95	68.56	68.68	0.10	0.25	0.59
Copa	10	59.34	39.09	29.62	34.72	35.53	35.74	0.05	0.14	0.36
FillP	8	57.79	38.54	39.95	67.07	68.23	59.12	0.10	0.65	1.57
Indigo	10	59.67	37.20	35.88	42.49	42.07	42.20	0.06	0.12	0.33
Vivace-latency	10	55.87	32.72	23.99	44.88	47.90	44.75	0.05	0.13	0.38
Vivace-loss	10	56.88	37.79	26.37	61.10	63.57	65.67	0.17	0.30	0.77
Vivace-LTE	7	59.34	22.97	5.99	549.76	41.11	36.31	0.01	0.12	8.72

```
Run 1: Statistics of TCP BBR

Start at: 2018-01-16 23:09:09
End at: 2018-01-16 23:09:39
Local clock offset: -4.151 ms
Remote clock offset: -8.711 ms
```

Run 1: Report of TCP BBR — Data Link

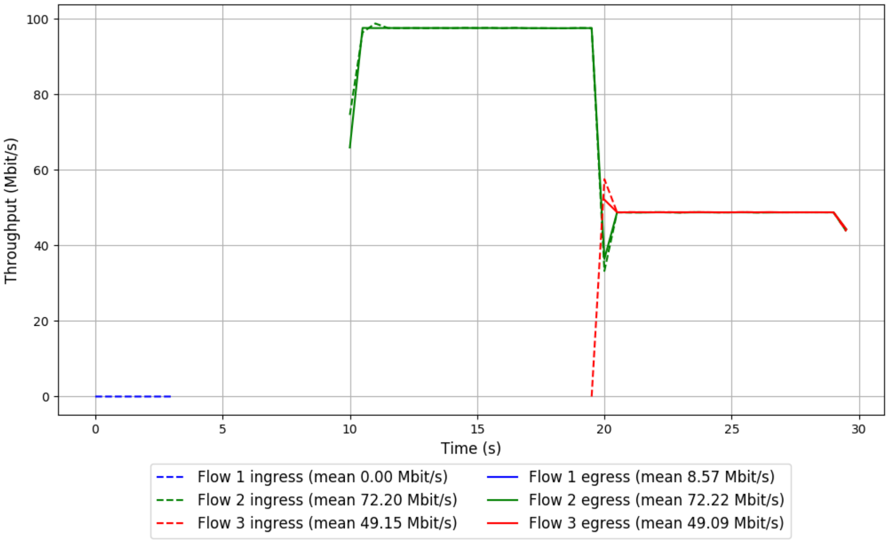


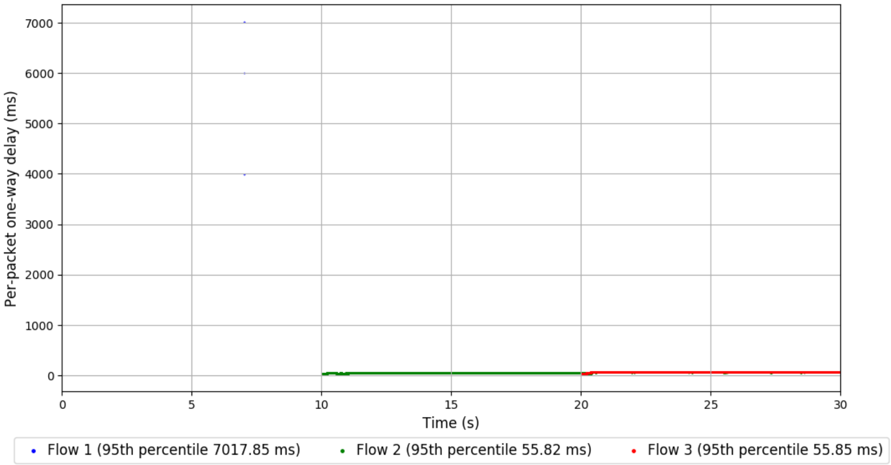


Run 2: Statistics of TCP BBR

Start at: 2018-01-16 23:30:32
End at: 2018-01-16 23:31:02
Local clock offset: -3.899 ms
Remote clock offset: -8.757 ms

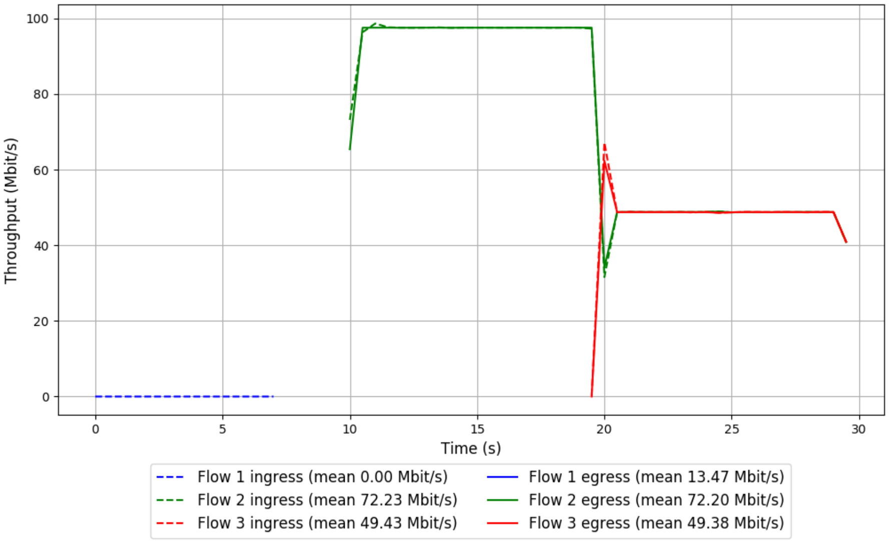
Run 2: Report of TCP BBR — Data Link

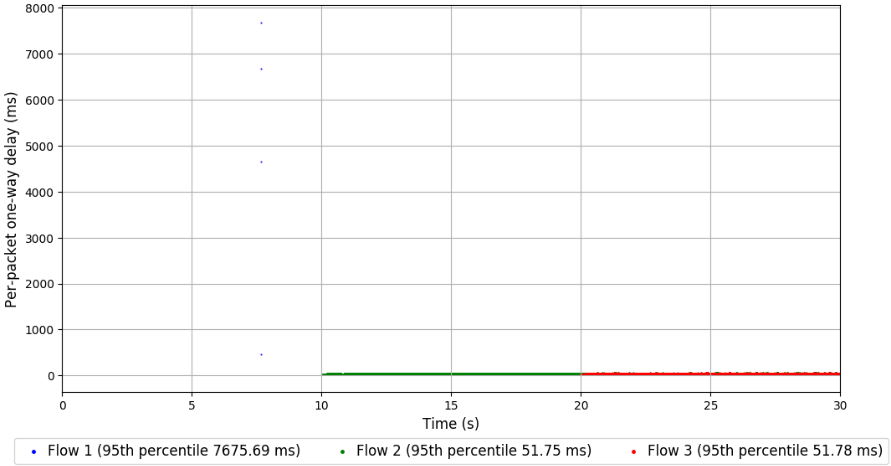




```
Run 3: Statistics of TCP BBR

Start at: 2018-01-16 23:51:45
End at: 2018-01-16 23:52:15
Local clock offset: -6.179 ms
Remote clock offset: -7.258 ms
```

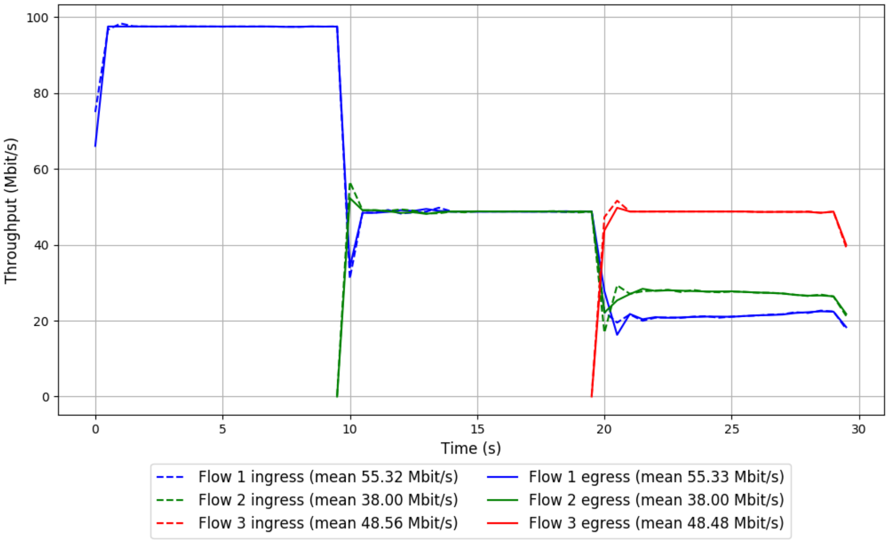
Run 3: Report of TCP BBR — Data Link

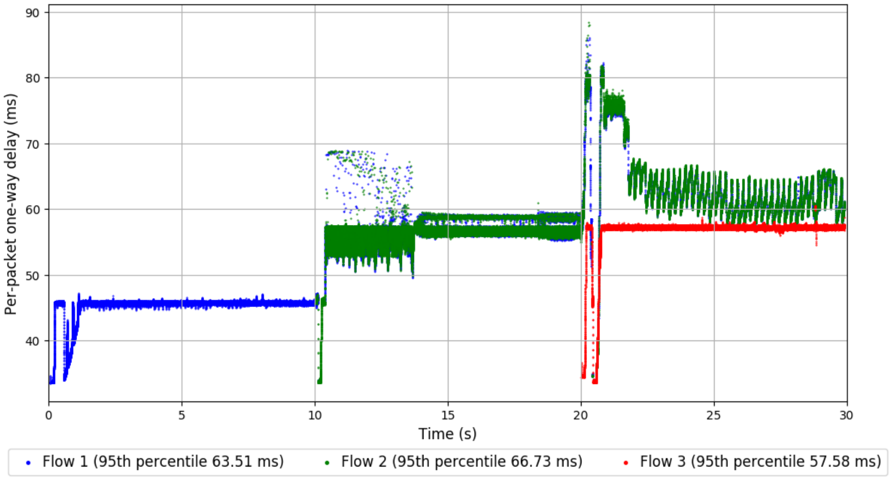




```
Run 4: Statistics of TCP BBR

Start at: 2018-01-17 00:12:46
End at: 2018-01-17 00:13:16
Local clock offset: -2.624 ms
Remote clock offset: -10.157 ms

# Below is generated by plot.py at 2018-01-17 06:09:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.75 Mbit/s
95th percentile per-packet one-way delay: 64.346 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 55.33 Mbit/s
95th percentile per-packet one-way delay: 63.508 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 38.00 Mbit/s
95th percentile per-packet one-way delay: 66.730 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 48.48 Mbit/s
95th percentile per-packet one-way delay: 57.582 ms
Loss rate: 0.51%
```

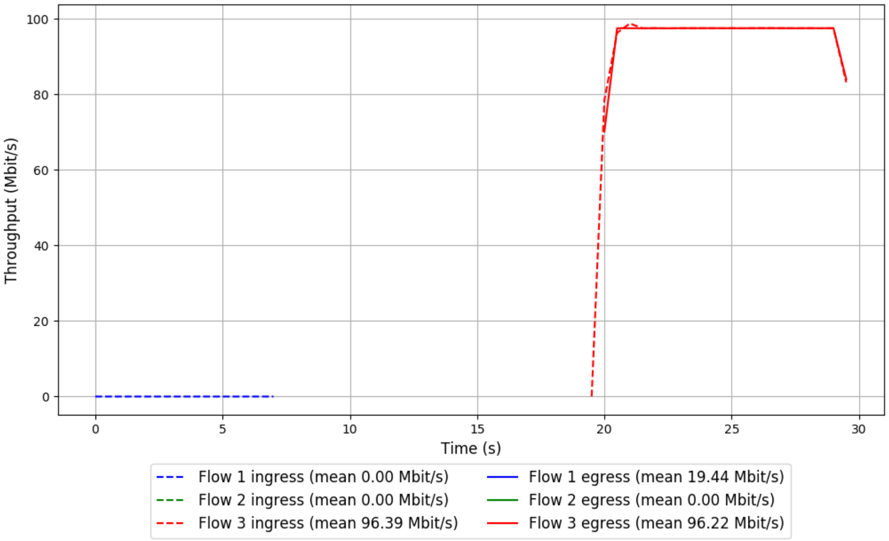
Run 4: Report of TCP BBR — Data Link

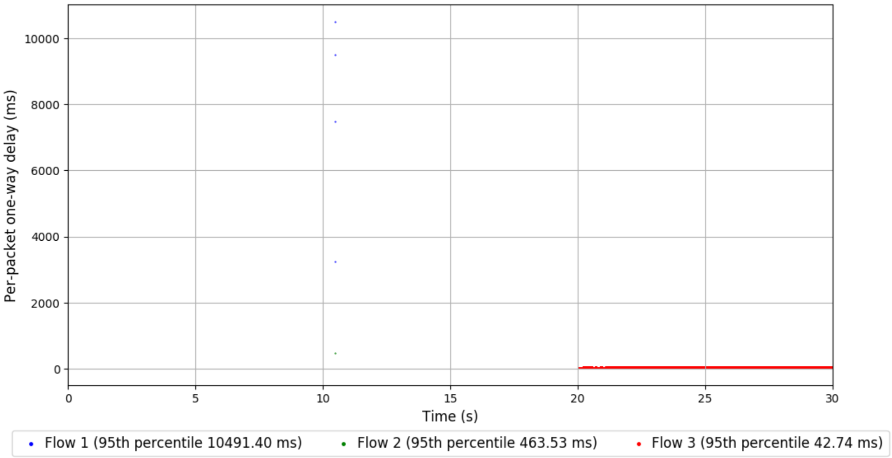




```
Run 5: Statistics of TCP BBR

Start at: 2018-01-17 00:34:08
End at: 2018-01-17 00:34:38
Local clock offset: -5.846 ms
Remote clock offset: -11.836 ms
```

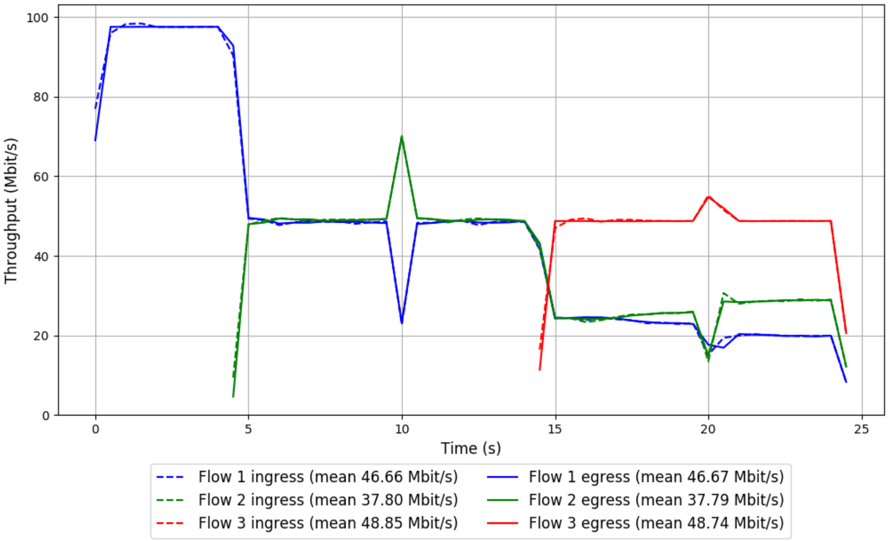
Run 5: Report of TCP BBR — Data Link

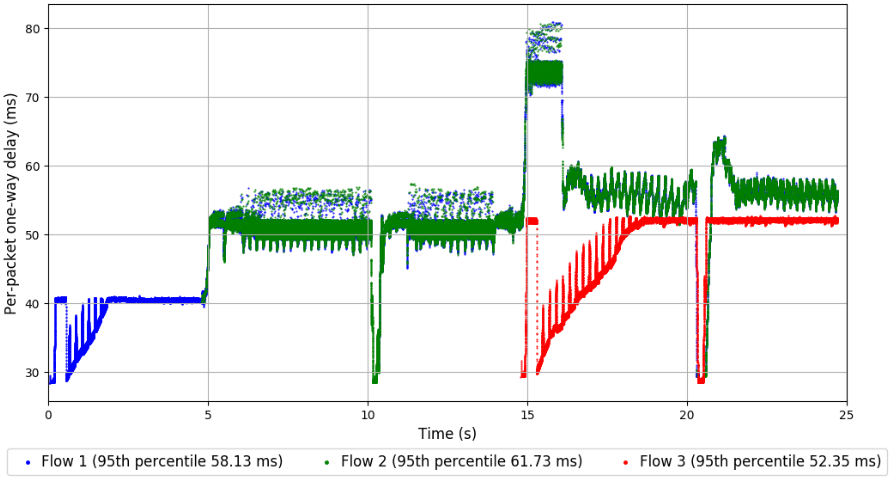




```
Run 6: Statistics of TCP BBR

Start at: 2018-01-17 00:55:19
End at: 2018-01-17 00:55:49
Local clock offset: -5.725 ms
Remote clock offset: -12.557 ms

# Below is generated by plot.py at 2018-01-17 06:09:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.77 Mbit/s
95th percentile per-packet one-way delay: 58.138 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 46.67 Mbit/s
95th percentile per-packet one-way delay: 58.128 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 37.79 Mbit/s
95th percentile per-packet one-way delay: 61.731 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 48.74 Mbit/s
95th percentile per-packet one-way delay: 52.353 ms
Loss rate: 0.48%
```

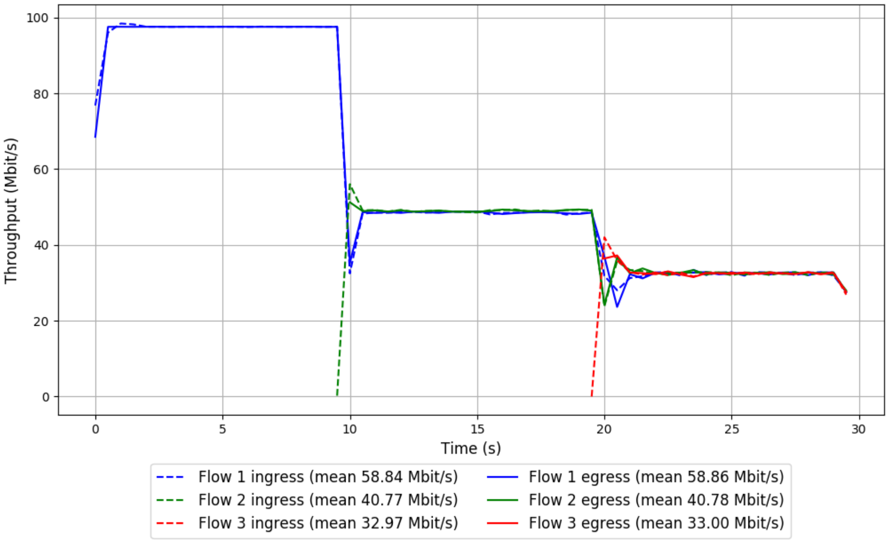
Run 6: Report of TCP BBR — Data Link

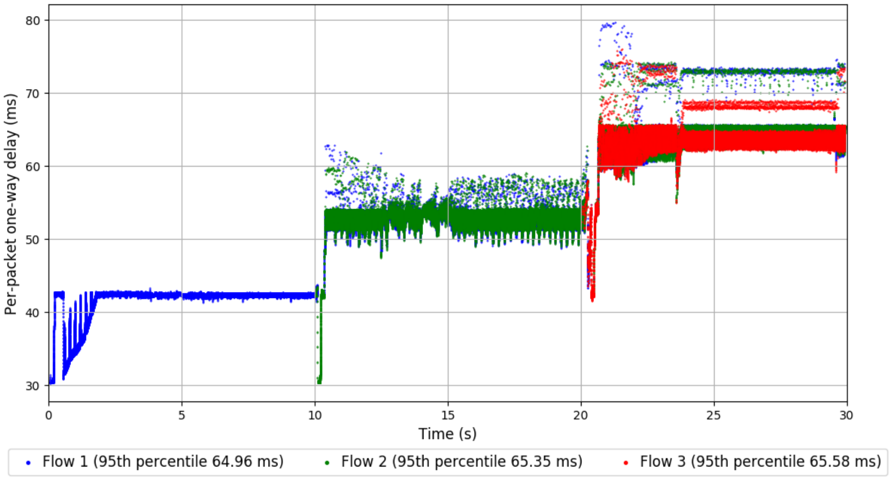




```
Run 7: Statistics of TCP BBR

Start at: 2018-01-17 01:16:25
End at: 2018-01-17 01:16:55
Local clock offset: -3.859 ms
Remote clock offset: -14.134 ms

# Below is generated by plot.py at 2018-01-17 06:09:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.96 Mbit/s
95th percentile per-packet one-way delay: 65.255 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 58.86 Mbit/s
95th percentile per-packet one-way delay: 64.964 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 40.78 Mbit/s
95th percentile per-packet one-way delay: 65.351 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 33.00 Mbit/s
95th percentile per-packet one-way delay: 65.584 ms
Loss rate: 0.55%
```

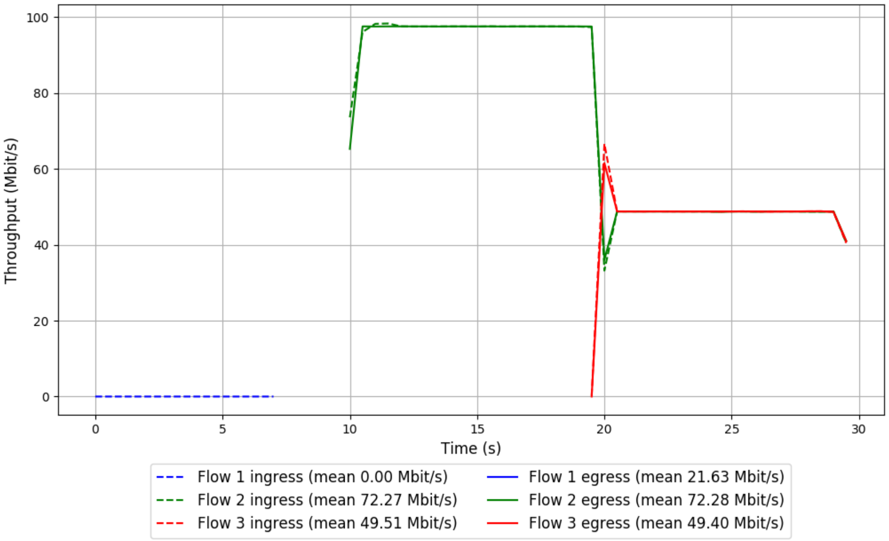
Run 7: Report of TCP BBR — Data Link

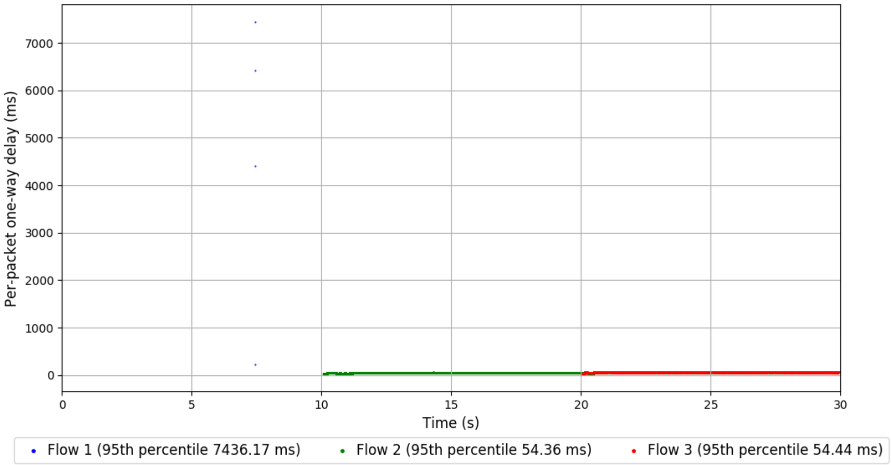




```
Run 8: Statistics of TCP BBR

Start at: 2018-01-17 01:37:43
End at: 2018-01-17 01:38:13
Local clock offset: -4.621 ms
Remote clock offset: -16.665 ms
```

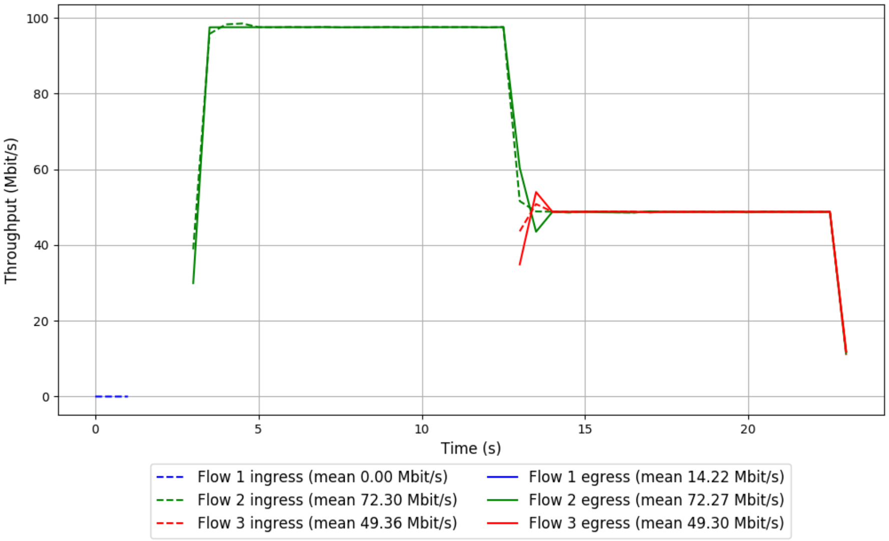
Run 8: Report of TCP BBR — Data Link

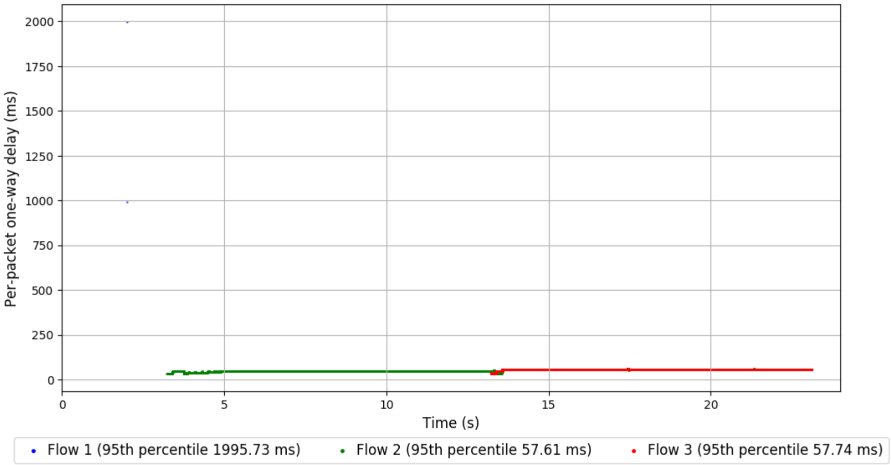




```
Run 9: Statistics of TCP BBR

Start at: 2018-01-17 01:58:57
End at: 2018-01-17 01:59:27
Local clock offset: -0.743 ms
Remote clock offset: -17.979 ms
```

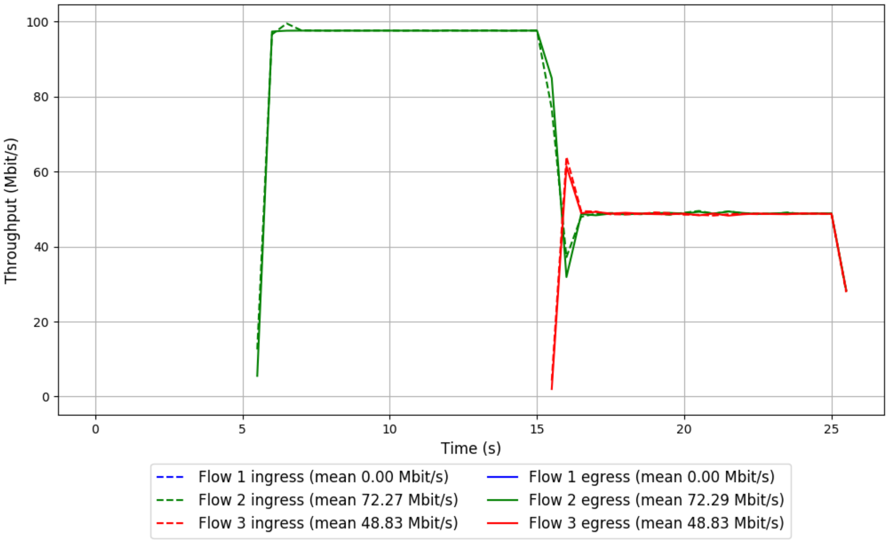
Run 9: Report of TCP BBR — Data Link

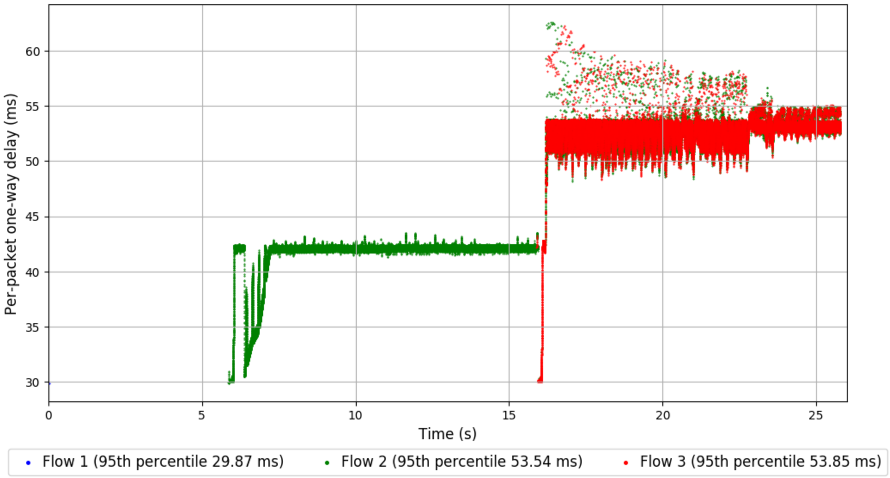




```
Run 10: Statistics of TCP BBR

Start at: 2018-01-17 02:20:22
End at: 2018-01-17 02:20:52
Local clock offset: -3.253 ms
Remote clock offset: -16.841 ms

# Below is generated by plot.py at 2018-01-17 06:10:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.74 Mbit/s
95th percentile per-packet one-way delay: 53.624 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 29.874 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 72.29 Mbit/s
95th percentile per-packet one-way delay: 53.541 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 48.83 Mbit/s
95th percentile per-packet one-way delay: 53.850 ms
Loss rate: 0.49%
```

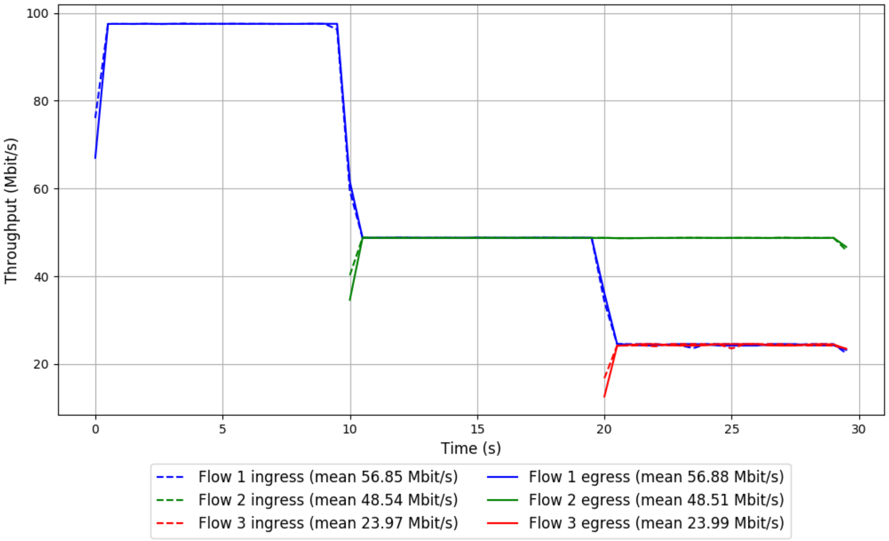
Run 10: Report of TCP BBR — Data Link

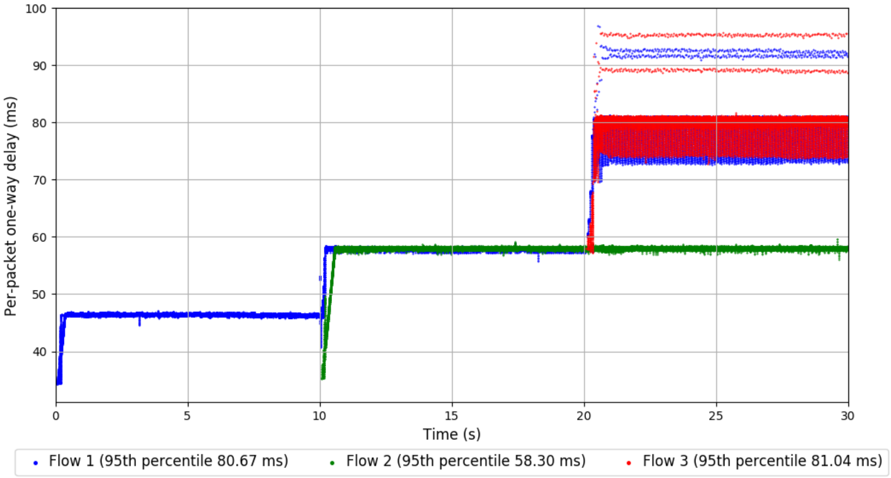




```
Run 1: Statistics of TCP Cubic

Start at: 2018-01-16 23:06:49
End at: 2018-01-16 23:07:19
Local clock offset: -4.246 ms
Remote clock offset: -10.813 ms

# Below is generated by plot.py at 2018-01-17 06:10:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 80.719 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 56.88 Mbit/s
95th percentile per-packet one-way delay: 80.668 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 48.51 Mbit/s
95th percentile per-packet one-way delay: 58.304 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 23.99 Mbit/s
95th percentile per-packet one-way delay: 81.036 ms
Loss rate: 0.72%
```

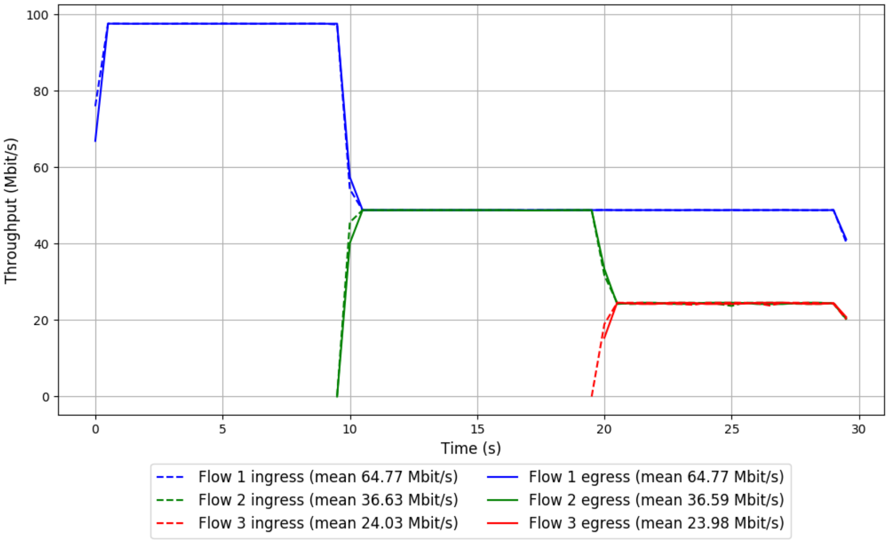
Run 1: Report of TCP Cubic — Data Link

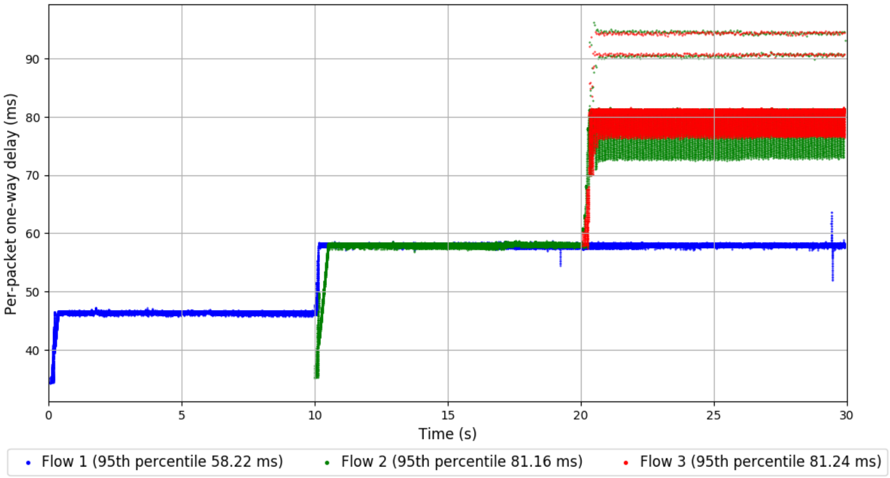




```
Run 2: Statistics of TCP Cubic

Start at: 2018-01-16 23:28:10
End at: 2018-01-16 23:28:40
Local clock offset: -1.46 ms
Remote clock offset: -8.605 ms

# Below is generated by plot.py at 2018-01-17 06:10:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 81.036 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 64.77 Mbit/s
95th percentile per-packet one-way delay: 58.223 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 36.59 Mbit/s
95th percentile per-packet one-way delay: 81.155 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 23.98 Mbit/s
95th percentile per-packet one-way delay: 81.241 ms
Loss rate: 0.74%
```

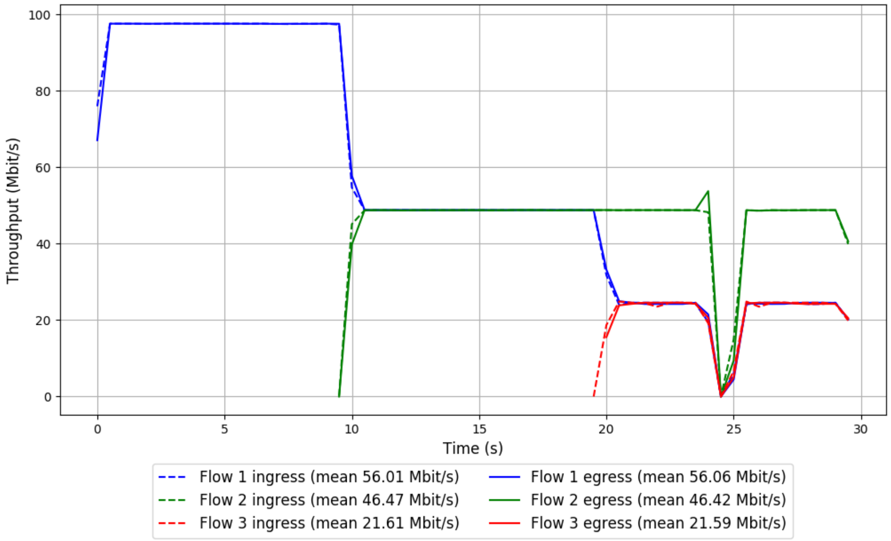
Run 2: Report of TCP Cubic — Data Link

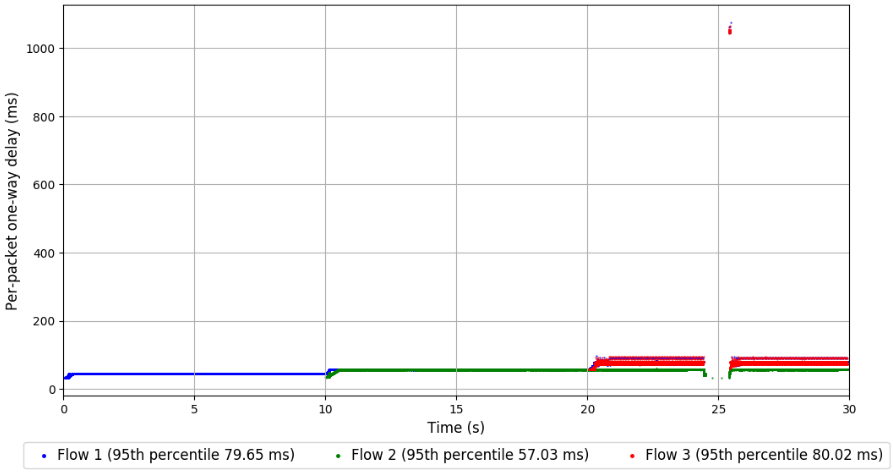




```
Run 3: Statistics of TCP Cubic

Start at: 2018-01-16 23:49:26
End at: 2018-01-16 23:49:56
Local clock offset: -1.857 ms
Remote clock offset: -8.351 ms

# Below is generated by plot.py at 2018-01-17 06:10:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.15 Mbit/s
95th percentile per-packet one-way delay: 79.720 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 56.06 Mbit/s
95th percentile per-packet one-way delay: 79.651 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 46.42 Mbit/s
95th percentile per-packet one-way delay: 57.029 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 21.59 Mbit/s
95th percentile per-packet one-way delay: 80.021 ms
Loss rate: 0.83%
```

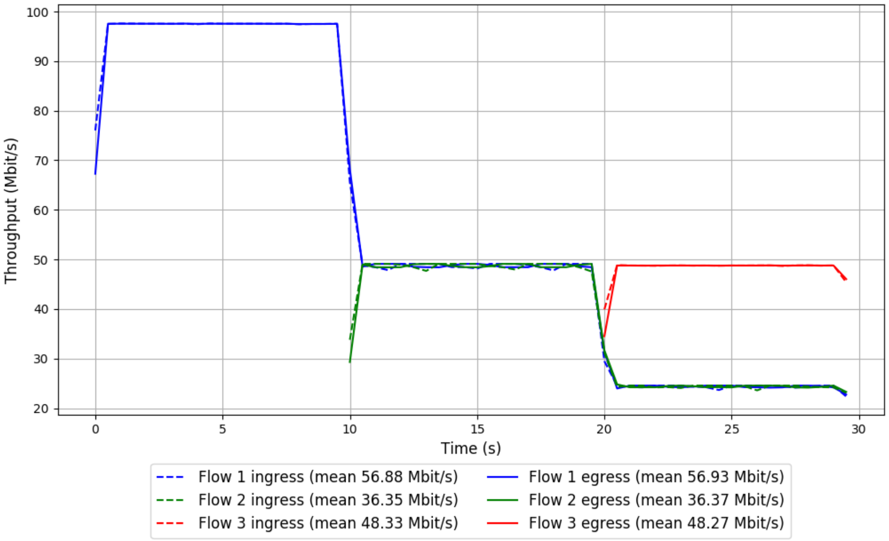
Run 3: Report of TCP Cubic — Data Link

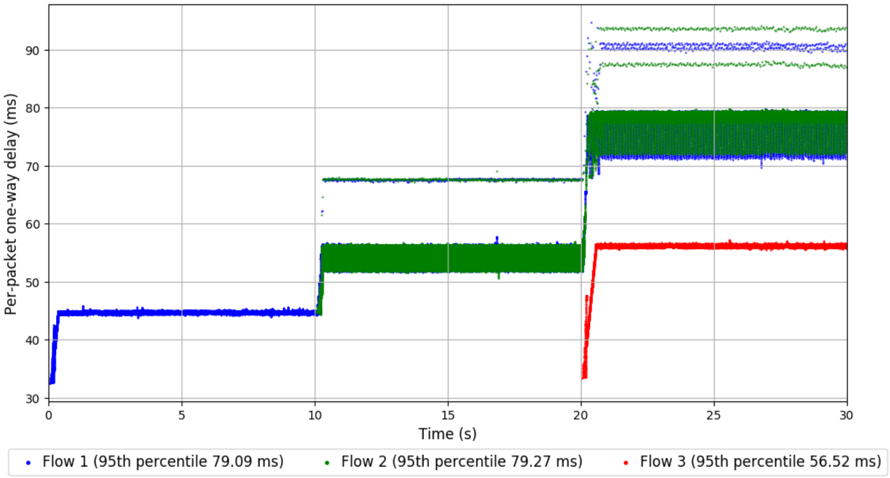




```
Run 4: Statistics of TCP Cubic

Start at: 2018-01-17 00:10:27
End at: 2018-01-17 00:10:57
Local clock offset: -3.214 ms
Remote clock offset: -9.554 ms

# Below is generated by plot.py at 2018-01-17 06:10:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 79.134 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 56.93 Mbit/s
95th percentile per-packet one-way delay: 79.088 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 36.37 Mbit/s
95th percentile per-packet one-way delay: 79.274 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 48.27 Mbit/s
95th percentile per-packet one-way delay: 56.517 ms
Loss rate: 0.51%
```

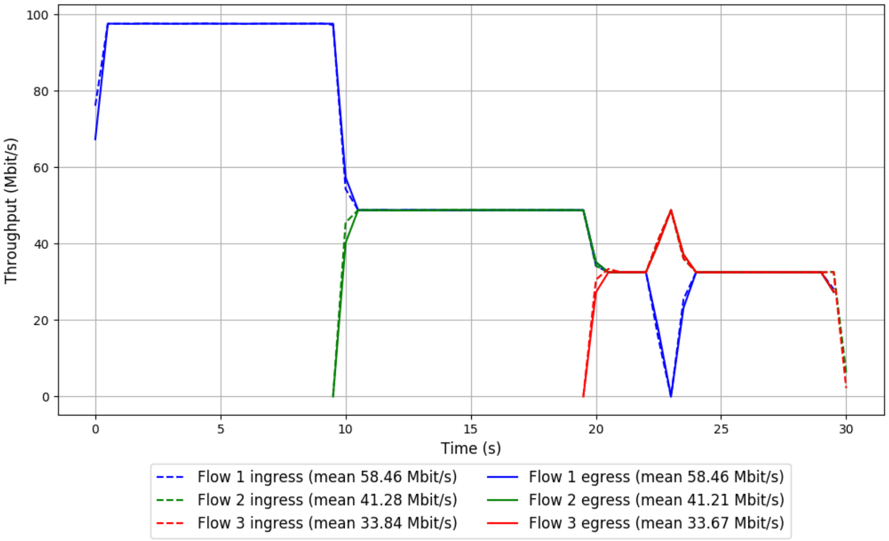
Run 4: Report of TCP Cubic — Data Link

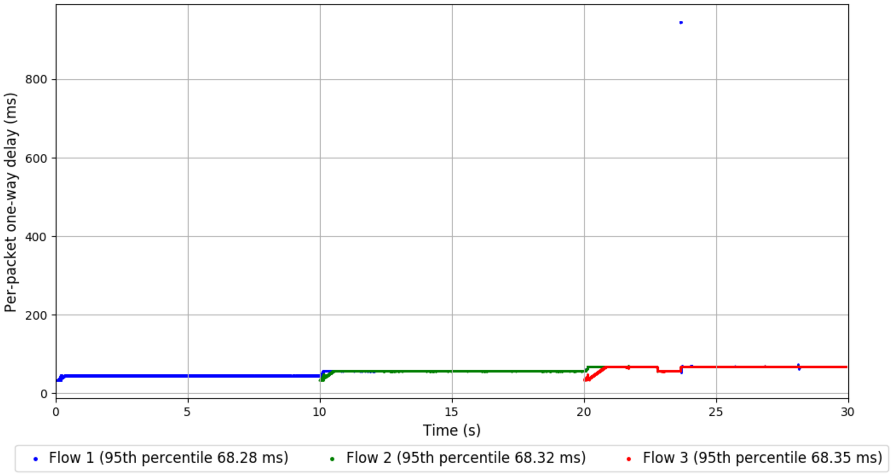




```
Run 5: Statistics of TCP Cubic

Start at: 2018-01-17 00:31:49
End at: 2018-01-17 00:32:19
Local clock offset: -1.829 ms
Remote clock offset: -9.957 ms

# Below is generated by plot.py at 2018-01-17 06:11:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 68.312 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 58.46 Mbit/s
95th percentile per-packet one-way delay: 68.279 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 41.21 Mbit/s
95th percentile per-packet one-way delay: 68.317 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 33.67 Mbit/s
95th percentile per-packet one-way delay: 68.353 ms
Loss rate: 1.73%
```

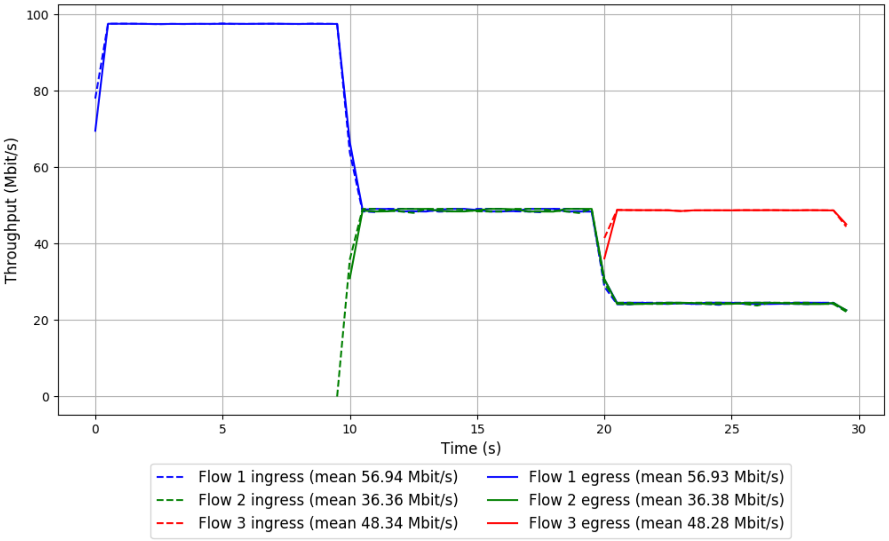
Run 5: Report of TCP Cubic — Data Link

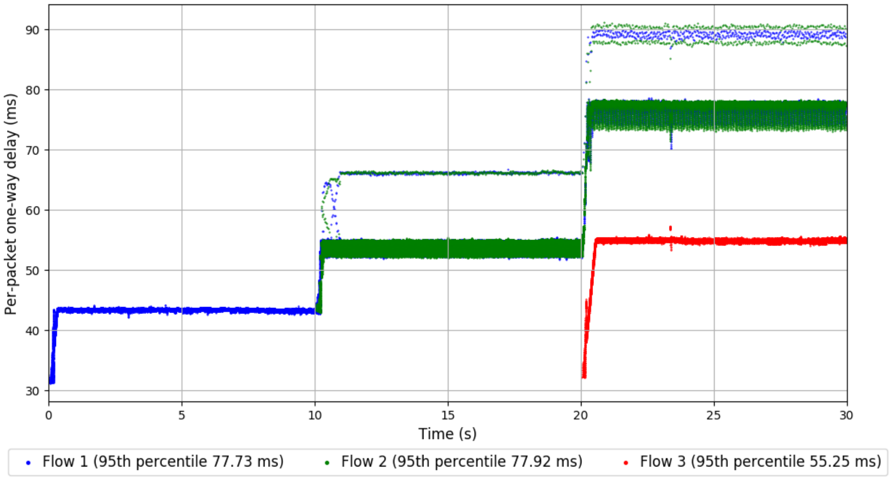




```
Run 6: Statistics of TCP Cubic

Start at: 2018-01-17 00:52:57
End at: 2018-01-17 00:53:27
Local clock offset: -2.849 ms
Remote clock offset: -12.462 ms

# Below is generated by plot.py at 2018-01-17 06:11:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 77.781 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 56.93 Mbit/s
95th percentile per-packet one-way delay: 77.734 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 36.38 Mbit/s
95th percentile per-packet one-way delay: 77.923 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 48.28 Mbit/s
95th percentile per-packet one-way delay: 55.247 ms
Loss rate: 0.49%
```

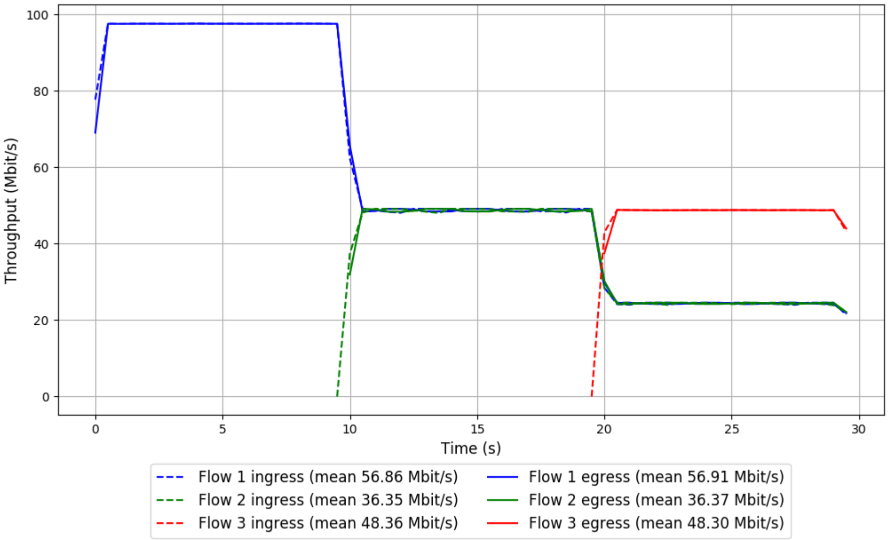
Run 6: Report of TCP Cubic — Data Link

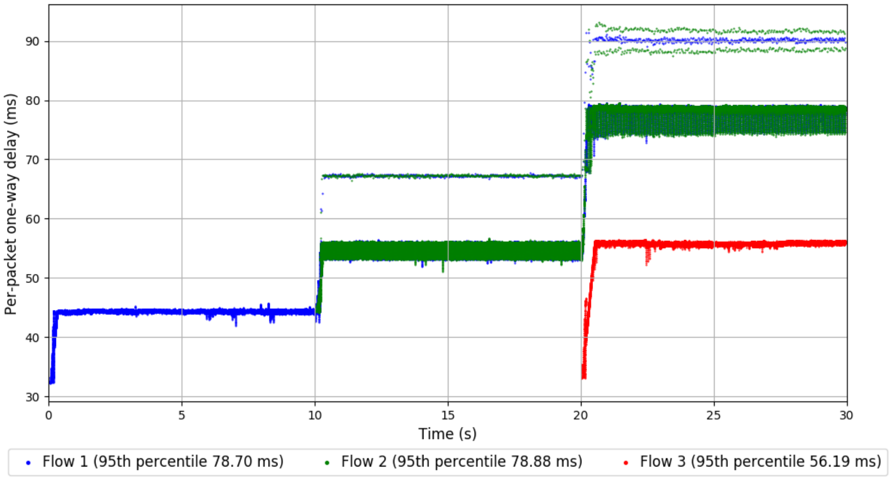




```
Run 7: Statistics of TCP Cubic

Start at: 2018-01-17 01:14:08
End at: 2018-01-17 01:14:38
Local clock offset: -1.109 ms
Remote clock offset: -13.076 ms

# Below is generated by plot.py at 2018-01-17 06:11:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 78.734 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 56.91 Mbit/s
95th percentile per-packet one-way delay: 78.702 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 36.37 Mbit/s
95th percentile per-packet one-way delay: 78.883 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 48.30 Mbit/s
95th percentile per-packet one-way delay: 56.194 ms
Loss rate: 0.49%
```

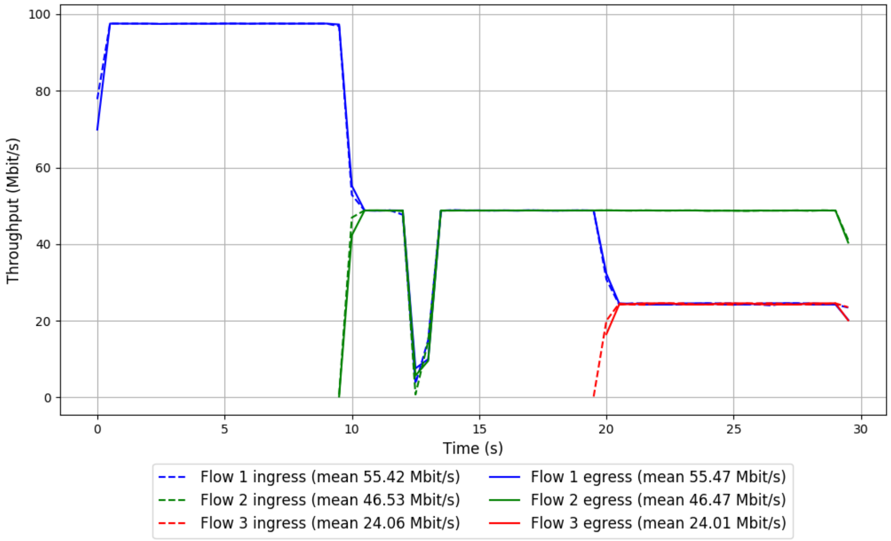
Run 7: Report of TCP Cubic — Data Link

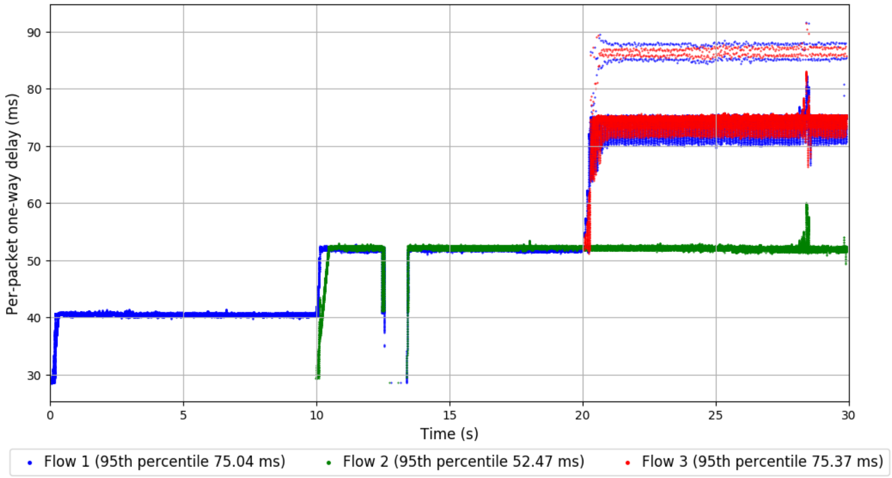




```
Run 8: Statistics of TCP Cubic

Start at: 2018-01-17 01:35:22
End at: 2018-01-17 01:35:52
Local clock offset: -5.716 ms
Remote clock offset: -15.642 ms

# Below is generated by plot.py at 2018-01-17 06:11:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.44 Mbit/s
95th percentile per-packet one-way delay: 75.084 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 55.47 Mbit/s
95th percentile per-packet one-way delay: 75.039 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 46.47 Mbit/s
95th percentile per-packet one-way delay: 52.469 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 24.01 Mbit/s
95th percentile per-packet one-way delay: 75.369 ms
Loss rate: 1.44%
```

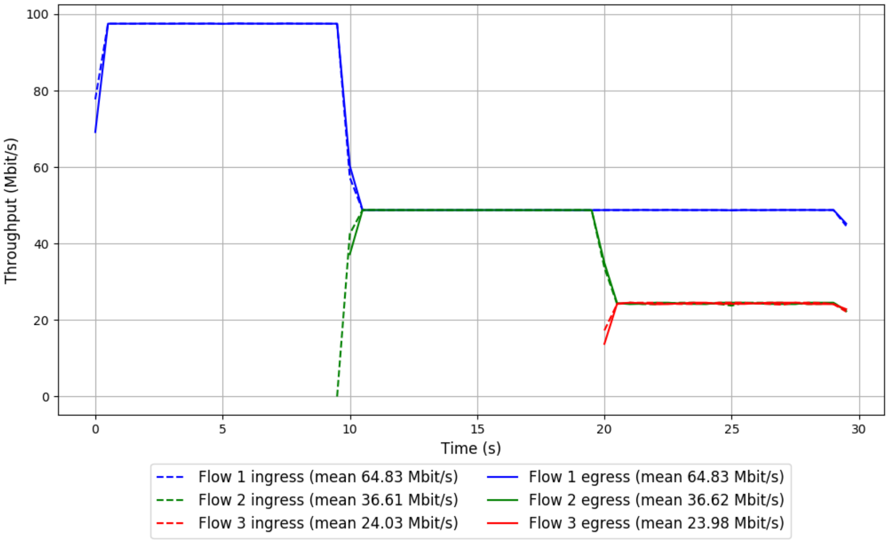
Run 8: Report of TCP Cubic — Data Link

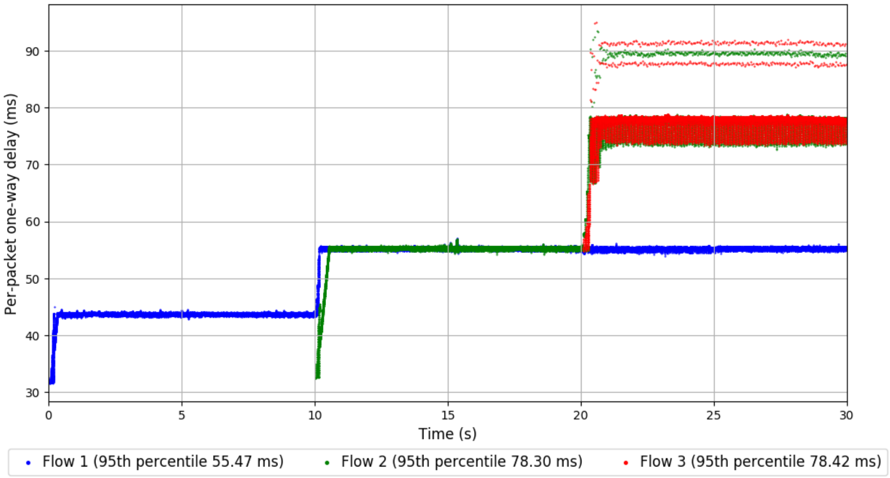




```
Run 9: Statistics of TCP Cubic

Start at: 2018-01-17 01:56:36
End at: 2018-01-17 01:57:06
Local clock offset: -2.34 ms
Remote clock offset: -17.136 ms

# Below is generated by plot.py at 2018-01-17 06:12:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 78.177 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 64.83 Mbit/s
95th percentile per-packet one-way delay: 55.465 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 36.62 Mbit/s
95th percentile per-packet one-way delay: 78.300 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 23.98 Mbit/s
95th percentile per-packet one-way delay: 78.424 ms
Loss rate: 0.71%
```

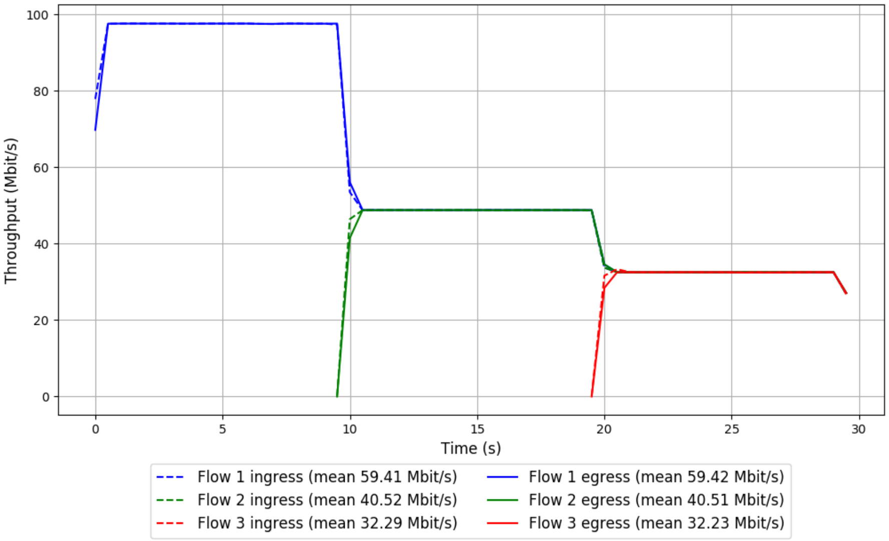
Run 9: Report of TCP Cubic — Data Link

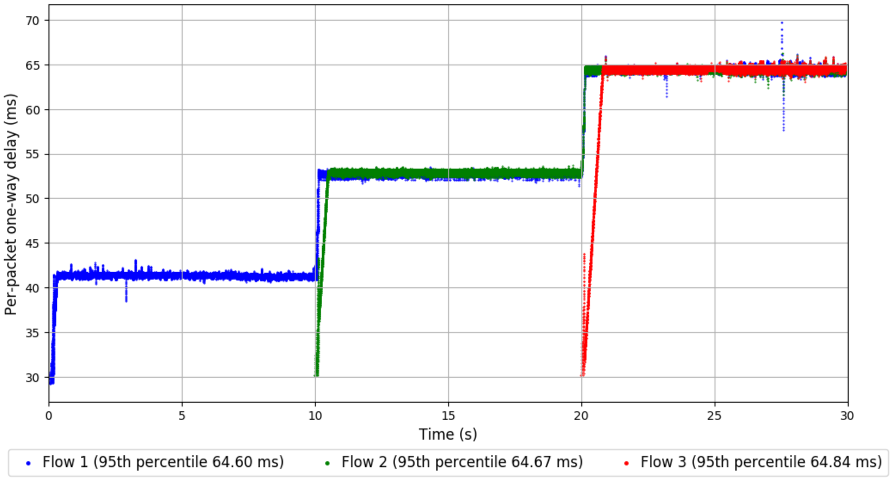




```
Run 10: Statistics of TCP Cubic

Start at: 2018-01-17 02:18:00
End at: 2018-01-17 02:18:30
Local clock offset: -4.151 ms
Remote clock offset: -16.961 ms

# Below is generated by plot.py at 2018-01-17 06:12:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 64.699 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 59.42 Mbit/s
95th percentile per-packet one-way delay: 64.596 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 40.51 Mbit/s
95th percentile per-packet one-way delay: 64.668 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 32.23 Mbit/s
95th percentile per-packet one-way delay: 64.836 ms
Loss rate: 0.61%
```

Run 10: Report of TCP Cubic — Data Link





```
Run 1: Statistics of LEDBAT

Start at: 2018-01-16 22:56:21
End at: 2018-01-16 22:56:51
Local clock offset: -4.36 ms
Remote clock offset: -7.397 ms
```

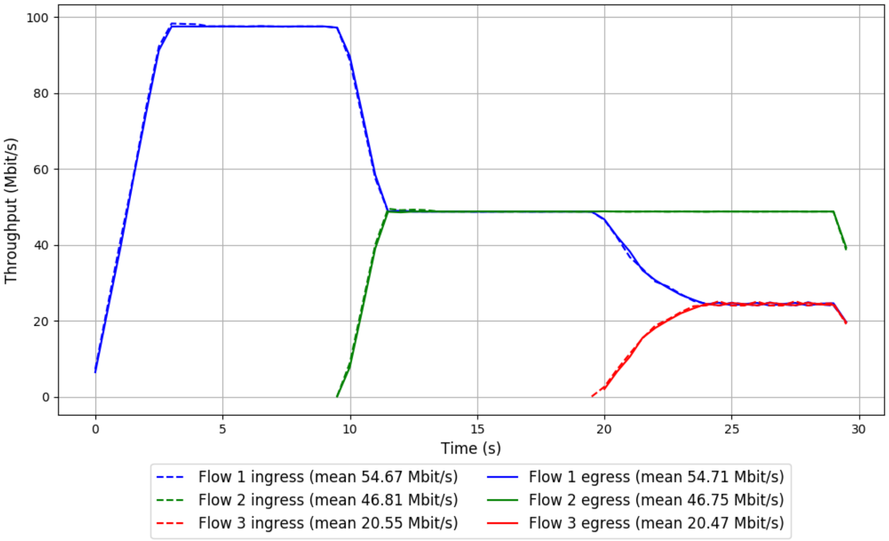
Run 1: Report of LEDBAT — Data Link

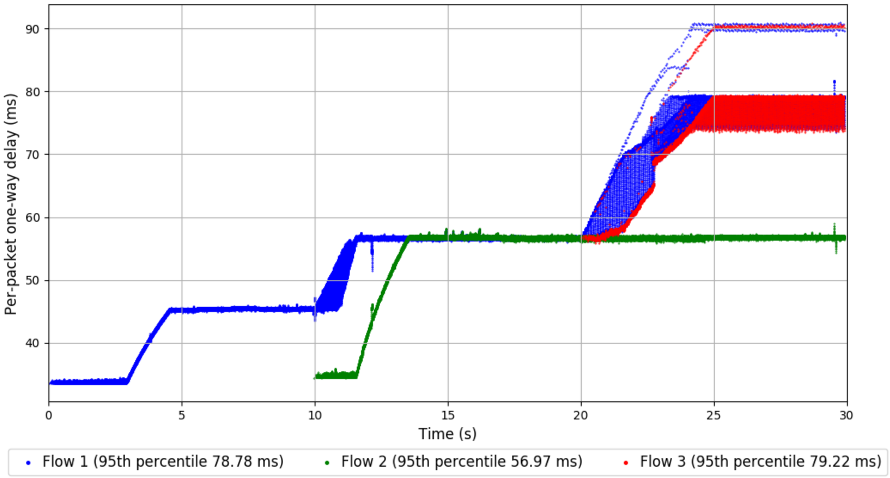
Figure is missing

Figure is missing

```
Run 2: Statistics of LEDBAT

Start at: 2018-01-16 23:17:40
End at: 2018-01-16 23:18:10
Local clock offset: -3.401 ms
Remote clock offset: -9.12 ms

# Below is generated by plot.py at 2018-01-17 06:12:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.69 Mbit/s
95th percentile per-packet one-way delay: 78.848 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 54.71 Mbit/s
95th percentile per-packet one-way delay: 78.781 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 46.75 Mbit/s
95th percentile per-packet one-way delay: 56.969 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 20.47 Mbit/s
95th percentile per-packet one-way delay: 79.225 ms
Loss rate: 0.91%
```

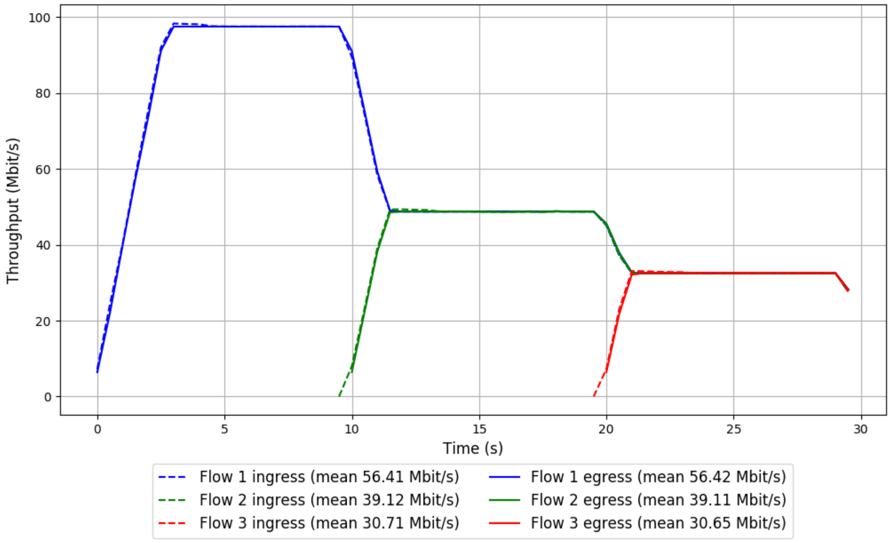
Run 2: Report of LEDBAT — Data Link

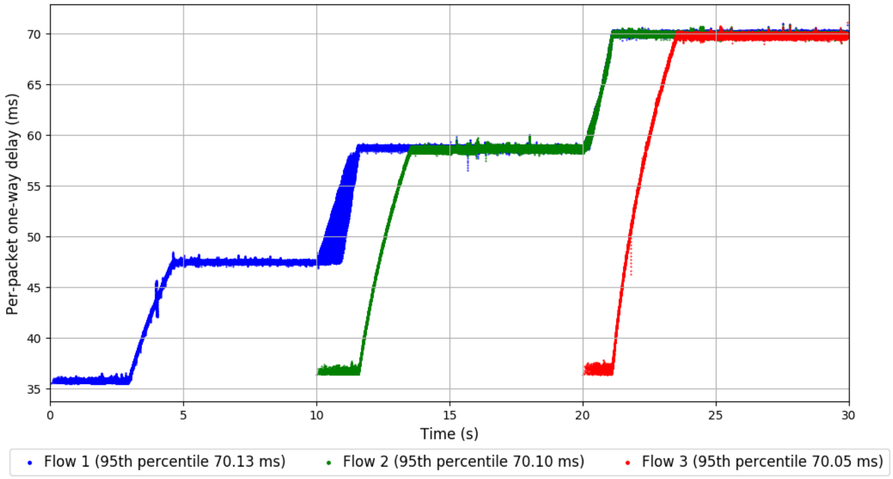




```
Run 3: Statistics of LEDBAT

Start at: 2018-01-16 23:38:55
End at: 2018-01-16 23:39:25
Local clock offset: -0.585 ms
Remote clock offset: -9.432 ms

# Below is generated by plot.py at 2018-01-17 06:12:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.66 Mbit/s
95th percentile per-packet one-way delay: 70.103 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 56.42 Mbit/s
95th percentile per-packet one-way delay: 70.128 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 39.11 Mbit/s
95th percentile per-packet one-way delay: 70.097 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 30.65 Mbit/s
95th percentile per-packet one-way delay: 70.050 ms
Loss rate: 0.65%
```

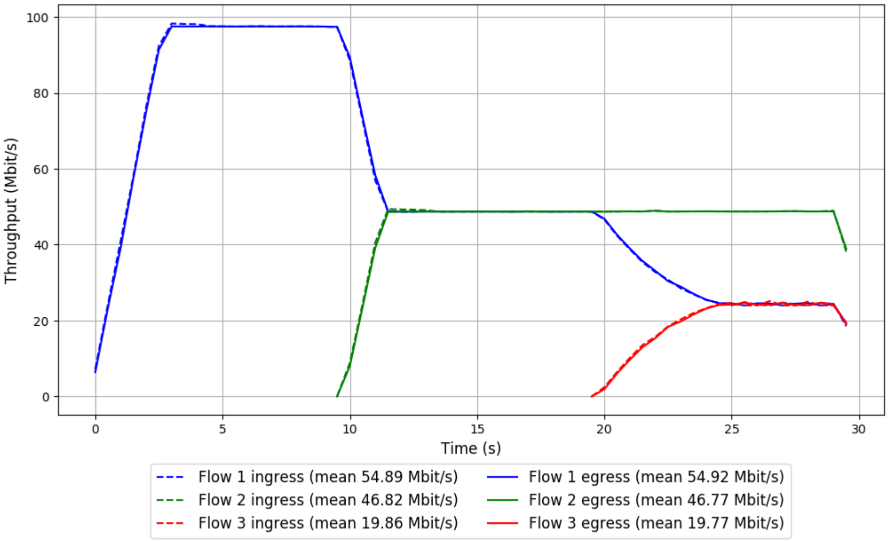
Run 3: Report of LEDBAT — Data Link

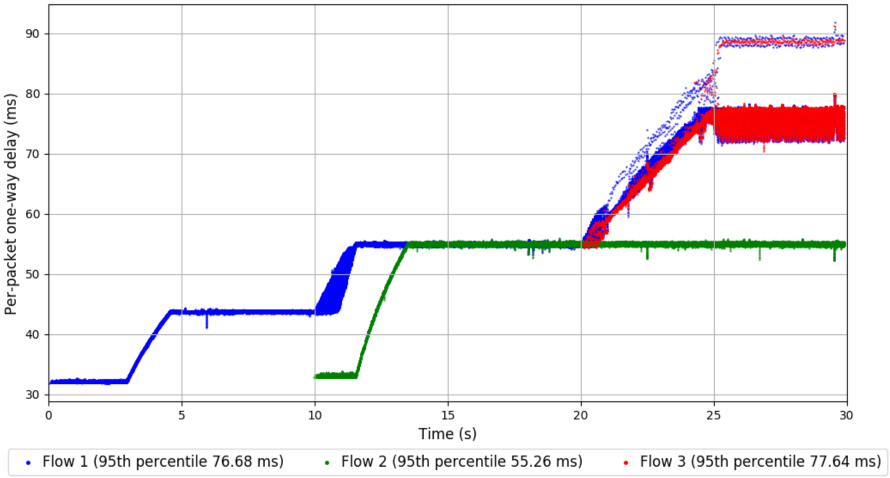




```
Run 4: Statistics of LEDBAT

Start at: 2018-01-16 23:59:59
End at: 2018-01-17 00:00:29
Local clock offset: -2.656 ms
Remote clock offset: -7.535 ms

# Below is generated by plot.py at 2018-01-17 06:12:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.68 Mbit/s
95th percentile per-packet one-way delay: 77.059 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 54.92 Mbit/s
95th percentile per-packet one-way delay: 76.676 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 46.77 Mbit/s
95th percentile per-packet one-way delay: 55.261 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 19.77 Mbit/s
95th percentile per-packet one-way delay: 77.638 ms
Loss rate: 0.94%
```

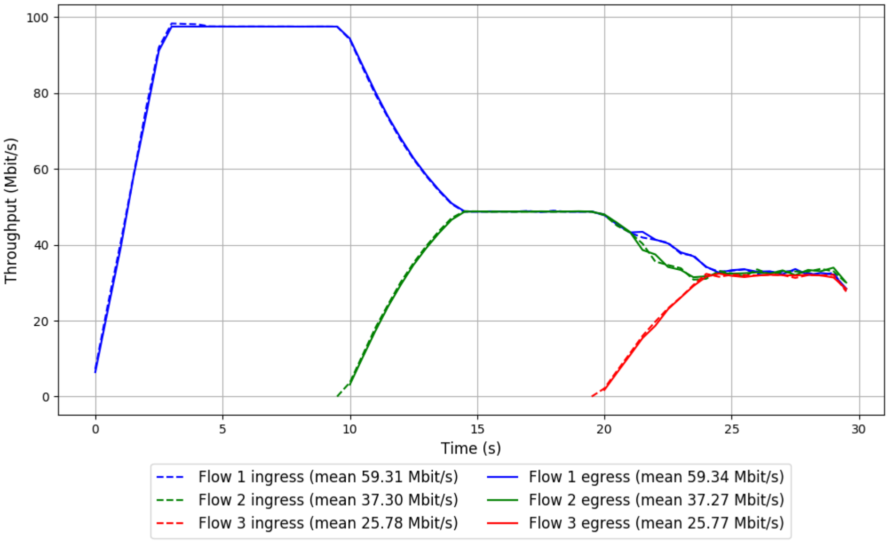
Run 4: Report of LEDBAT — Data Link

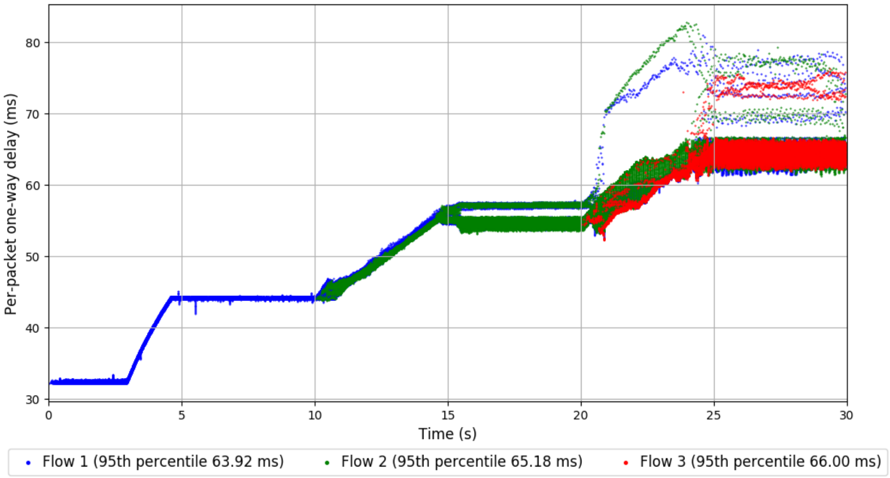




```
Run 5: Statistics of LEDBAT

Start at: 2018-01-17 00:21:20
End at: 2018-01-17 00:21:50
Local clock offset: -3.658 ms
Remote clock offset: -10.498 ms

# Below is generated by plot.py at 2018-01-17 06:12:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.68 Mbit/s
95th percentile per-packet one-way delay: 65.052 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 59.34 Mbit/s
95th percentile per-packet one-way delay: 63.916 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 37.27 Mbit/s
95th percentile per-packet one-way delay: 65.177 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 25.77 Mbit/s
95th percentile per-packet one-way delay: 66.004 ms
Loss rate: 0.72%
```

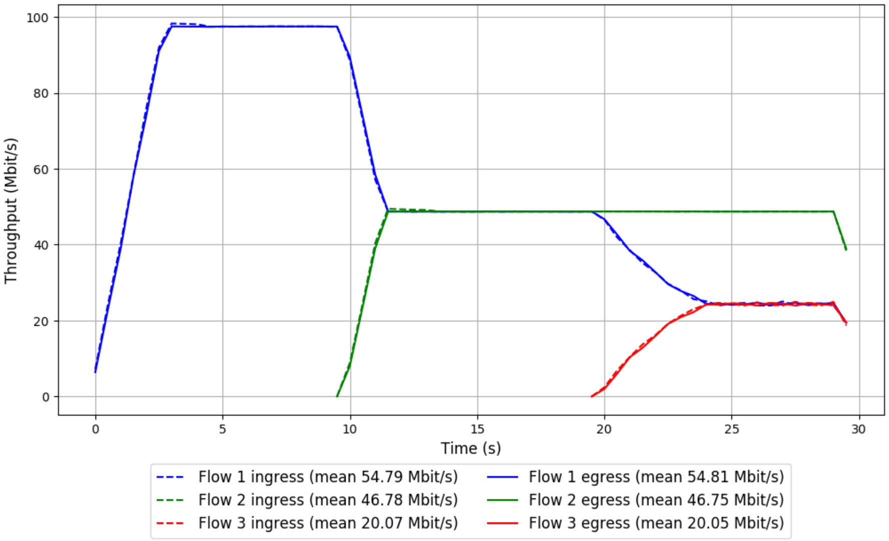
Run 5: Report of LEDBAT — Data Link

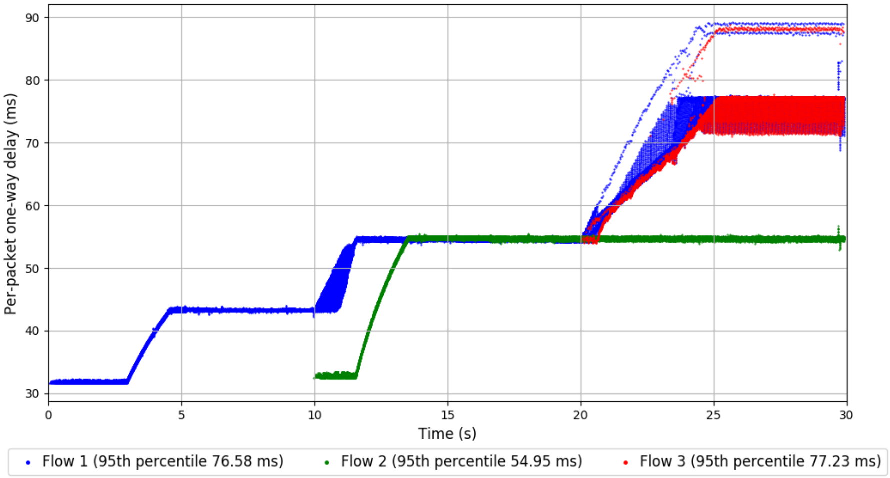




```
Run 6: Statistics of LEDBAT

Start at: 2018-01-17 00:42:27
End at: 2018-01-17 00:42:57
Local clock offset: -4.108 ms
Remote clock offset: -11.653 ms

# Below is generated by plot.py at 2018-01-17 06:12:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.66 Mbit/s
95th percentile per-packet one-way delay: 76.762 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 54.81 Mbit/s
95th percentile per-packet one-way delay: 76.575 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 46.75 Mbit/s
95th percentile per-packet one-way delay: 54.948 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 20.05 Mbit/s
95th percentile per-packet one-way delay: 77.227 ms
Loss rate: 0.85%
```

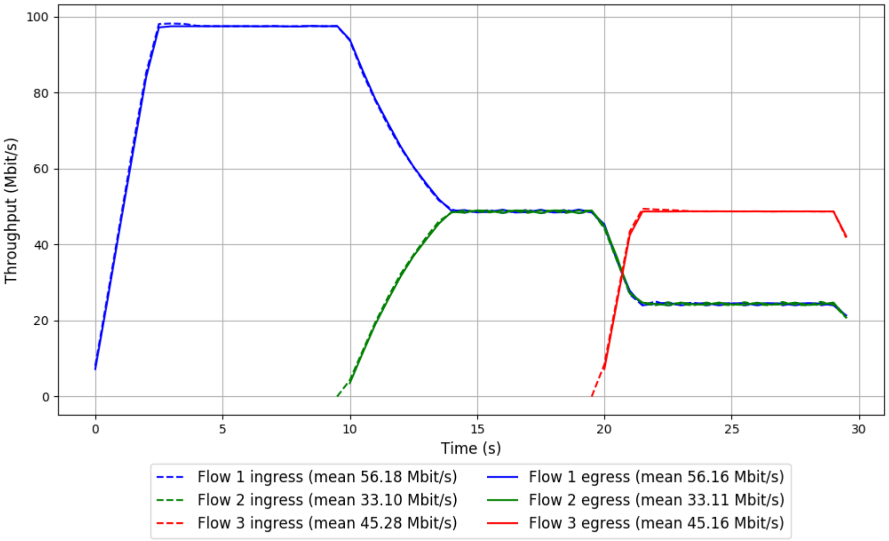
Run 6: Report of LEDBAT — Data Link

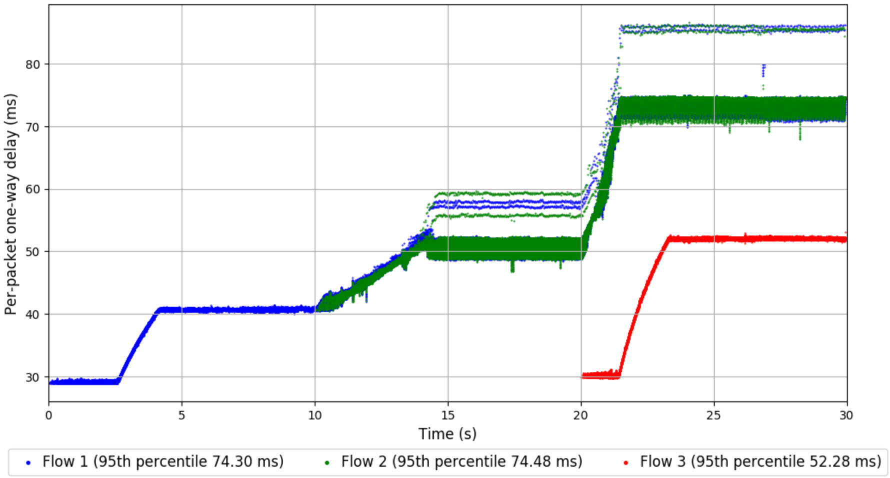




```
Run 7: Statistics of LEDBAT

Start at: 2018-01-17 01:03:35
End at: 2018-01-17 01:04:05
Local clock offset: -4.92 ms
Remote clock offset: -12.743 ms

# Below is generated by plot.py at 2018-01-17 06:12:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.21 Mbit/s
95th percentile per-packet one-way delay: 74.344 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 56.16 Mbit/s
95th percentile per-packet one-way delay: 74.295 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 33.11 Mbit/s
95th percentile per-packet one-way delay: 74.485 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 45.16 Mbit/s
95th percentile per-packet one-way delay: 52.283 ms
Loss rate: 0.52%
```

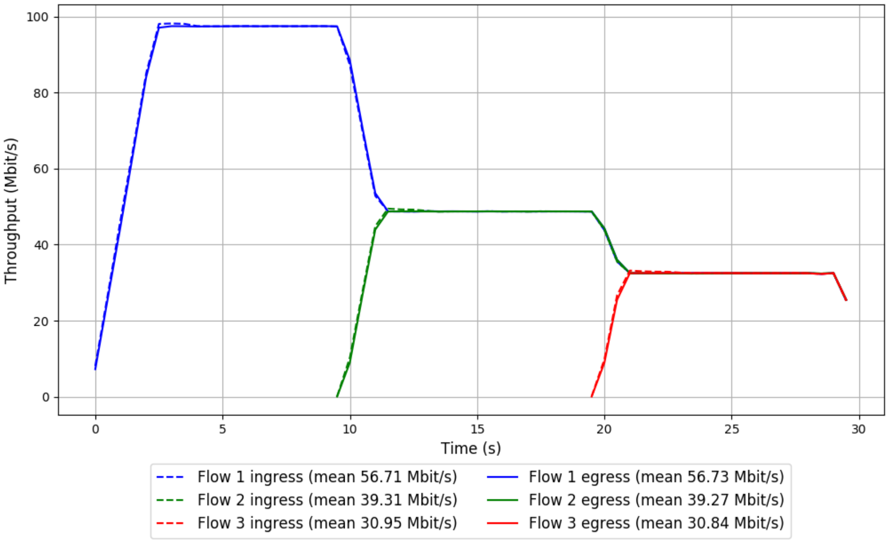
Run 7: Report of LEDBAT — Data Link

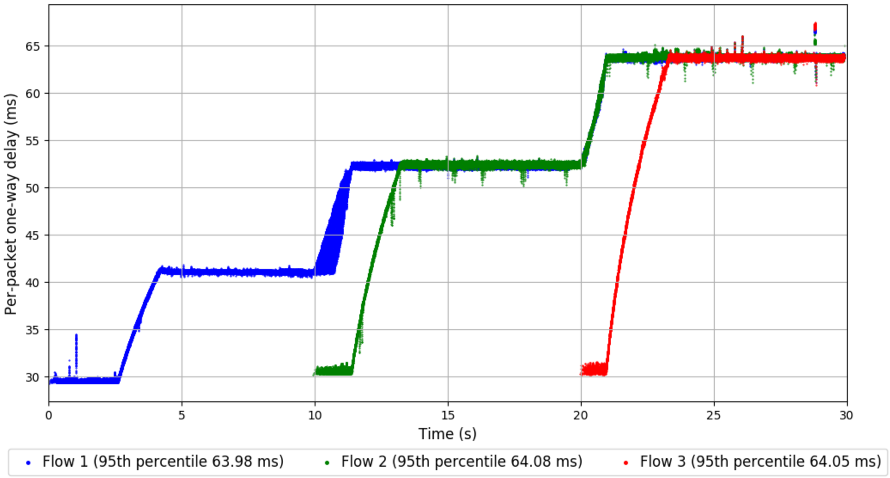




```
Run 8: Statistics of LEDBAT

Start at: 2018-01-17 01:24:51
End at: 2018-01-17 01:25:21
Local clock offset: -4.802 ms
Remote clock offset: -14.749 ms

# Below is generated by plot.py at 2018-01-17 06:13:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.19 Mbit/s
95th percentile per-packet one-way delay: 64.030 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 56.73 Mbit/s
95th percentile per-packet one-way delay: 63.979 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 39.27 Mbit/s
95th percentile per-packet one-way delay: 64.085 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 30.84 Mbit/s
95th percentile per-packet one-way delay: 64.047 ms
Loss rate: 0.62%
```

Run 8: Report of LEDBAT — Data Link





```
Run 9: Statistics of LEDBAT

Start at: 2018-01-17 01:46:03
End at: 2018-01-17 01:46:33
Local clock offset: -2.21 ms
Remote clock offset: -16.456 ms
```

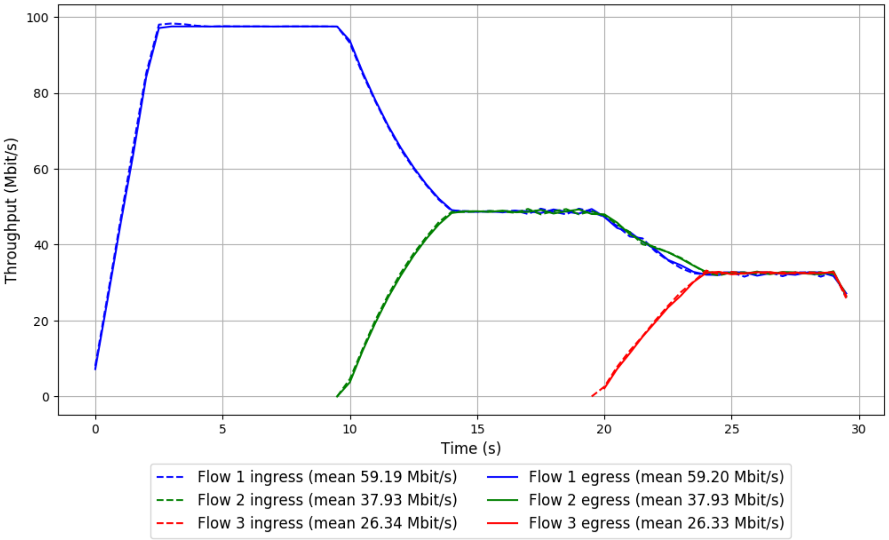
Run 9: Report of LEDBAT — Data Link

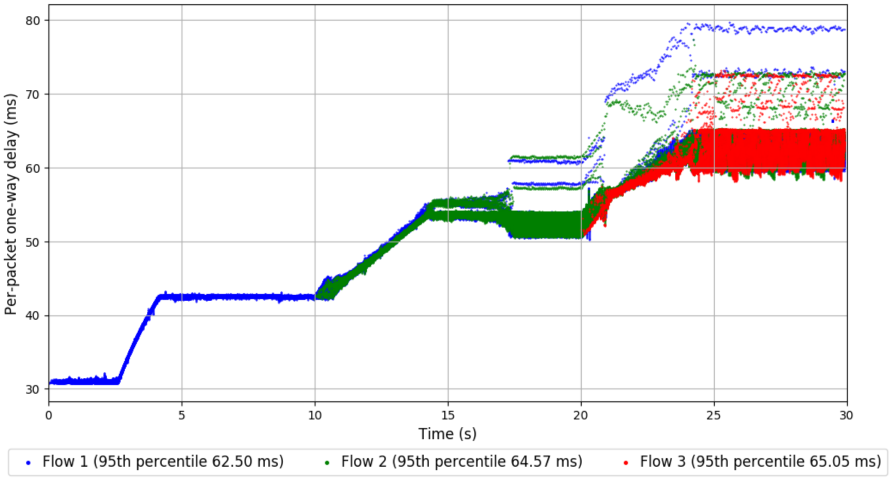
Figure is missing

Figure is missing

```
Run 10: Statistics of LEDBAT

Start at: 2018-01-17 02:07:23
End at: 2018-01-17 02:07:53
Local clock offset: -3.3 ms
Remote clock offset: -17.604 ms

# Below is generated by plot.py at 2018-01-17 06:13:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.22 Mbit/s
95th percentile per-packet one-way delay: 63.921 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 59.20 Mbit/s
95th percentile per-packet one-way delay: 62.496 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 37.93 Mbit/s
95th percentile per-packet one-way delay: 64.573 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 26.33 Mbit/s
95th percentile per-packet one-way delay: 65.046 ms
Loss rate: 0.71%
```

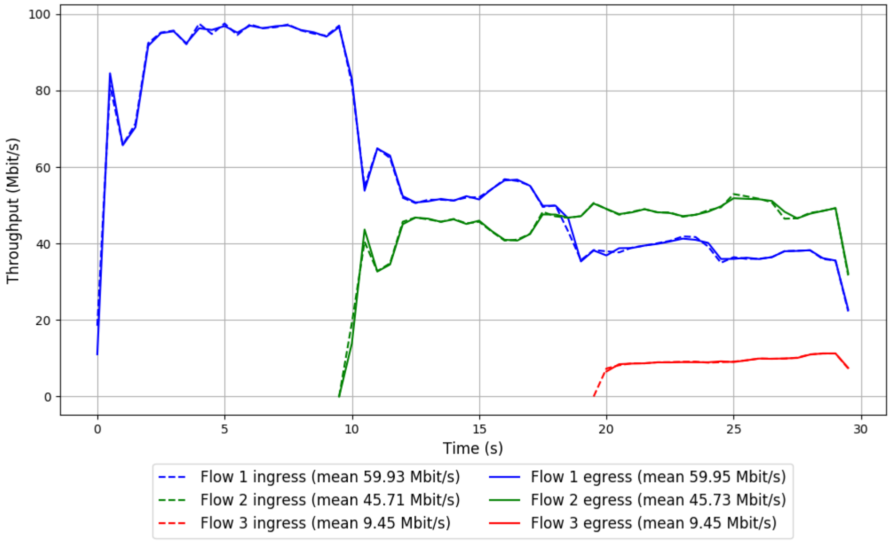
Run 10: Report of LEDBAT — Data Link

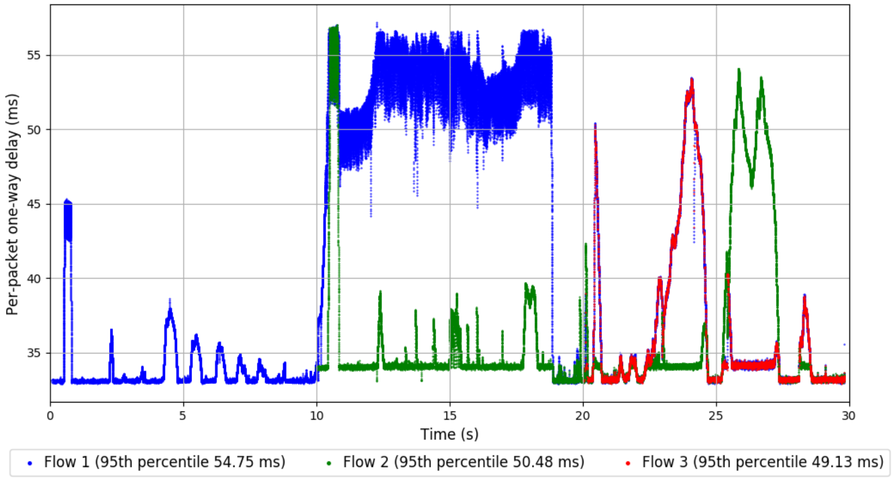




```
Run 1: Statistics of PCC

Start at: 2018-01-16 23:08:00
End at: 2018-01-16 23:08:30
Local clock offset: -3.244 ms
Remote clock offset: -8.547 ms

# Below is generated by plot.py at 2018-01-17 06:13:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.51 Mbit/s
95th percentile per-packet one-way delay: 54.205 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 59.95 Mbit/s
95th percentile per-packet one-way delay: 54.753 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 45.73 Mbit/s
95th percentile per-packet one-way delay: 50.483 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 9.45 Mbit/s
95th percentile per-packet one-way delay: 49.130 ms
Loss rate: 0.33%
```

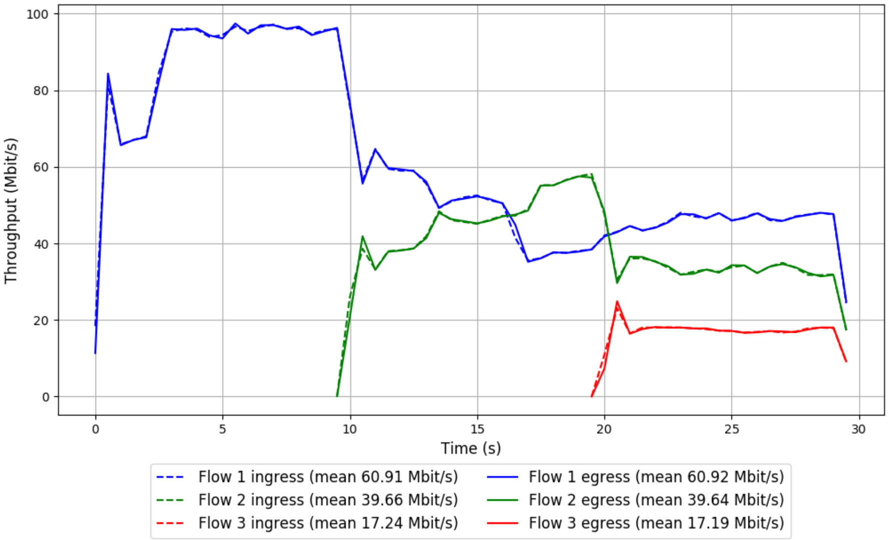
Run 1: Report of PCC — Data Link

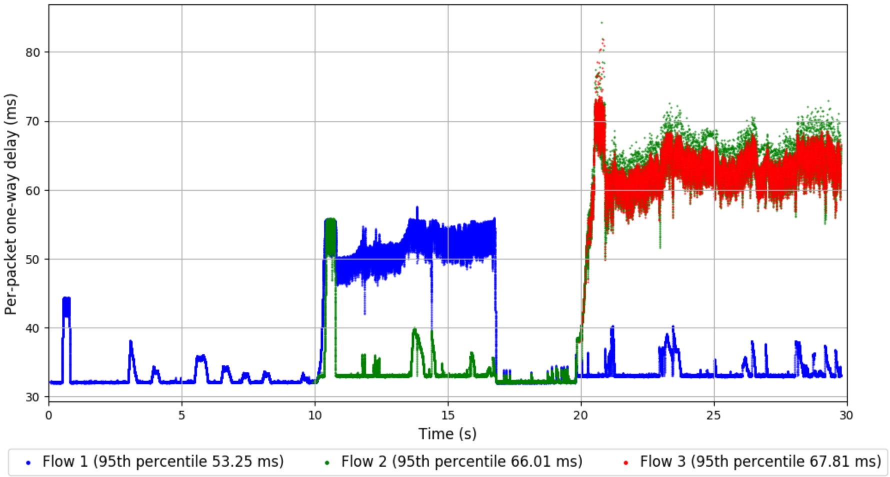




```
Run 2: Statistics of PCC

Start at: 2018-01-16 23:29:21
End at: 2018-01-16 23:29:51
Local clock offset: -2.665 ms
Remote clock offset: -7.554 ms

# Below is generated by plot.py at 2018-01-17 06:13:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.04 Mbit/s
95th percentile per-packet one-way delay: 64.430 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 60.92 Mbit/s
95th percentile per-packet one-way delay: 53.249 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 39.64 Mbit/s
95th percentile per-packet one-way delay: 66.007 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 17.19 Mbit/s
95th percentile per-packet one-way delay: 67.812 ms
Loss rate: 0.61%
```

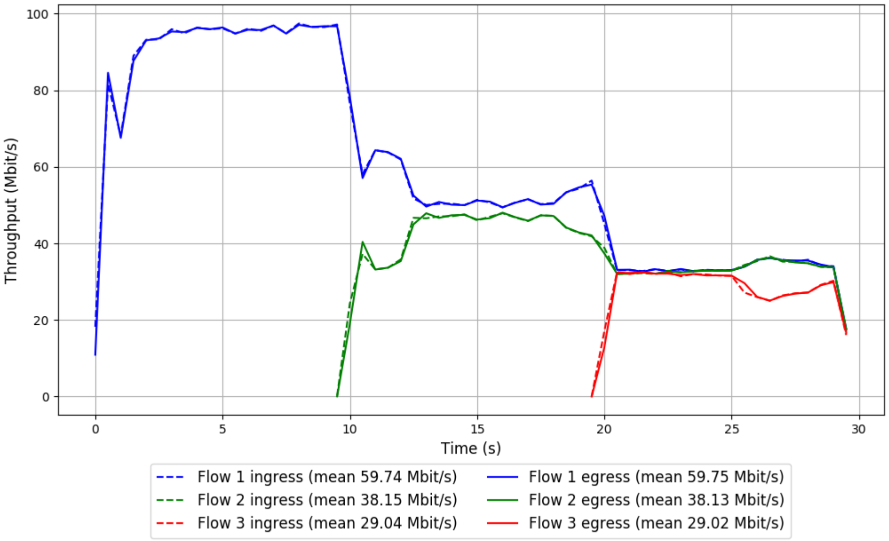
Run 2: Report of PCC — Data Link

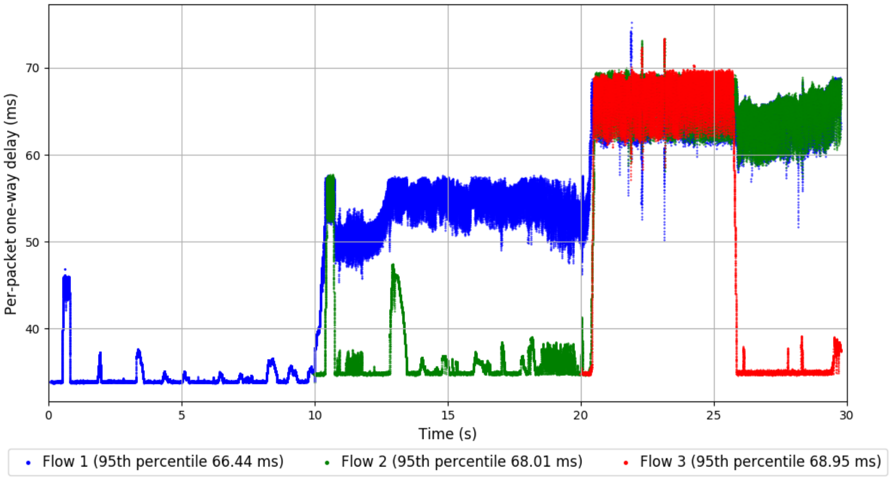




```
Run 3: Statistics of PCC

Start at: 2018-01-16 23:50:36
End at: 2018-01-16 23:51:06
Local clock offset: -2.005 ms
Remote clock offset: -9.12 ms

# Below is generated by plot.py at 2018-01-17 06:13:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.75 Mbit/s
95th percentile per-packet one-way delay: 67.694 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 59.75 Mbit/s
95th percentile per-packet one-way delay: 66.435 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 38.13 Mbit/s
95th percentile per-packet one-way delay: 68.013 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 29.02 Mbit/s
95th percentile per-packet one-way delay: 68.953 ms
Loss rate: 0.32%
```

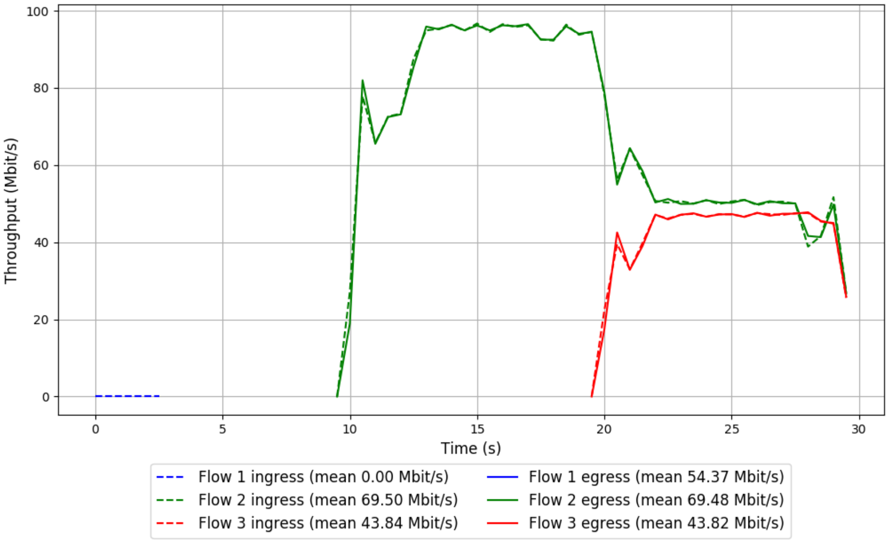
Run 3: Report of PCC — Data Link

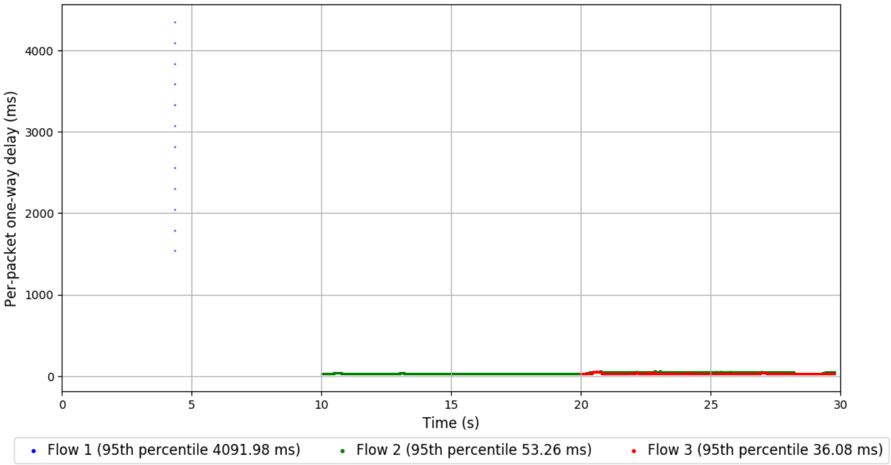




```
Run 4: Statistics of PCC

Start at: 2018-01-17 00:11:38
End at: 2018-01-17 00:12:08
Local clock offset: -3.611 ms
Remote clock offset: -8.282 ms

# Below is generated by plot.py at 2018-01-17 06:13:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.98 Mbit/s
95th percentile per-packet one-way delay: 53.077 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 54.37 Mbit/s
95th percentile per-packet one-way delay: 4091.983 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 69.48 Mbit/s
95th percentile per-packet one-way delay: 53.263 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 43.82 Mbit/s
95th percentile per-packet one-way delay: 36.082 ms
Loss rate: 0.30%
```

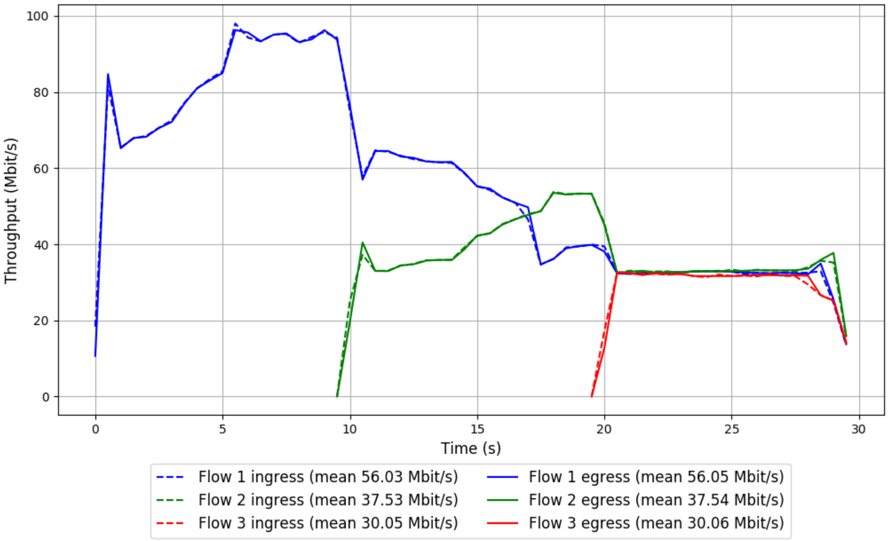
Run 4: Report of PCC — Data Link

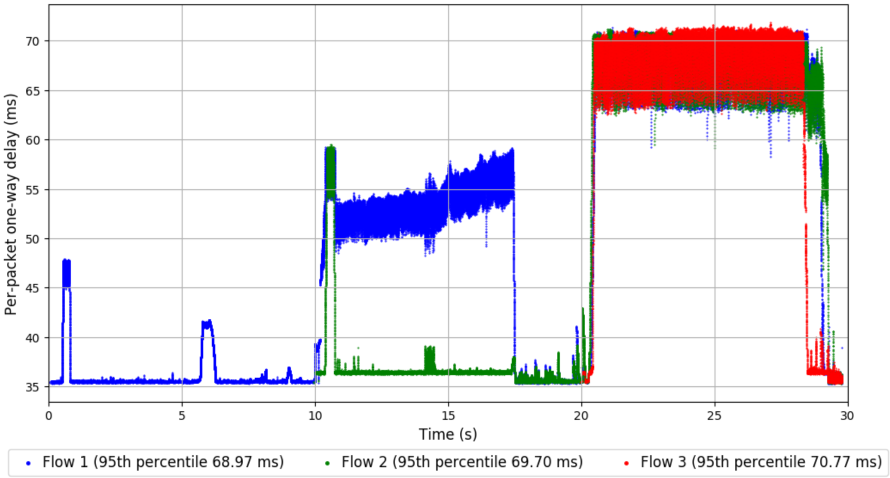




```
Run 5: Statistics of PCC

Start at: 2018-01-17 00:32:59
End at: 2018-01-17 00:33:29
Local clock offset: -0.234 ms
Remote clock offset: -11.072 ms

# Below is generated by plot.py at 2018-01-17 06:13:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.02 Mbit/s
95th percentile per-packet one-way delay: 69.778 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 56.05 Mbit/s
95th percentile per-packet one-way delay: 68.970 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 37.54 Mbit/s
95th percentile per-packet one-way delay: 69.702 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 30.06 Mbit/s
95th percentile per-packet one-way delay: 70.768 ms
Loss rate: 0.23%
```

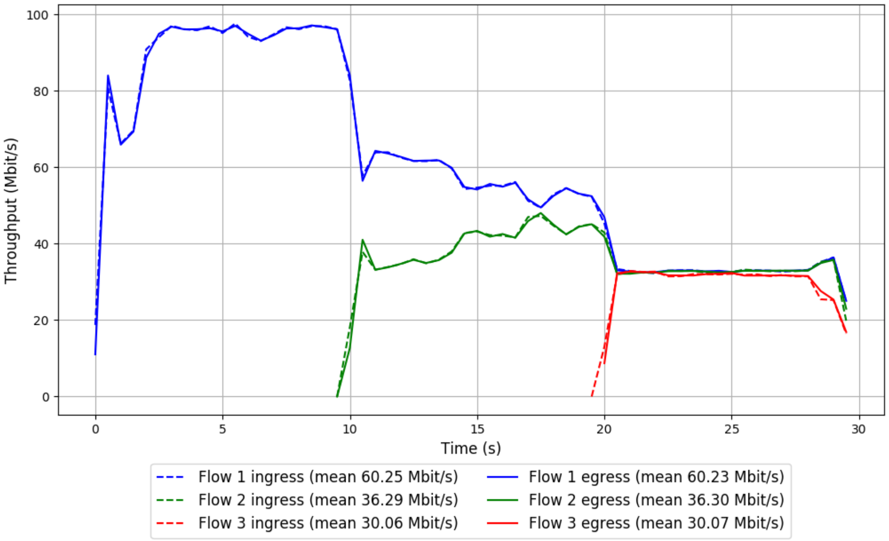
Run 5: Report of PCC — Data Link

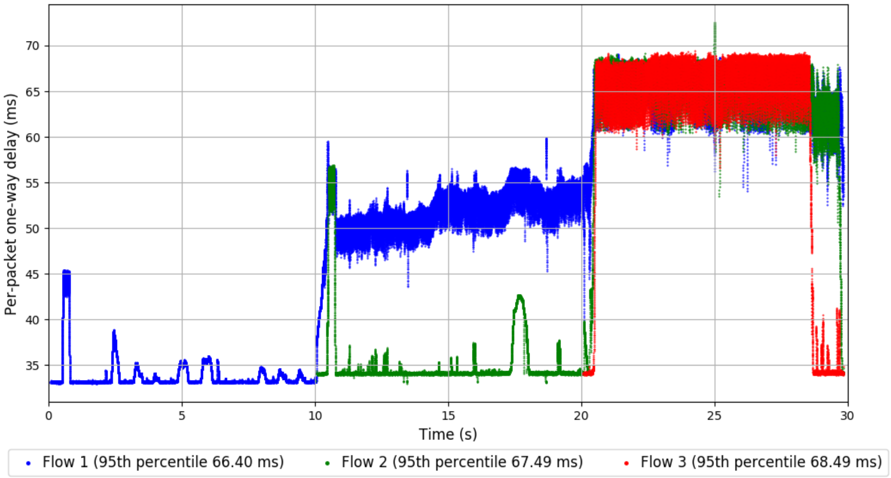




```
Run 6: Statistics of PCC

Start at: 2018-01-17 00:54:08
End at: 2018-01-17 00:54:38
Local clock offset: -0.982 ms
Remote clock offset: -12.432 ms

# Below is generated by plot.py at 2018-01-17 06:14:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.29 Mbit/s
95th percentile per-packet one-way delay: 67.396 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 60.23 Mbit/s
95th percentile per-packet one-way delay: 66.401 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 36.30 Mbit/s
95th percentile per-packet one-way delay: 67.489 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 30.07 Mbit/s
95th percentile per-packet one-way delay: 68.491 ms
Loss rate: 0.22%
```

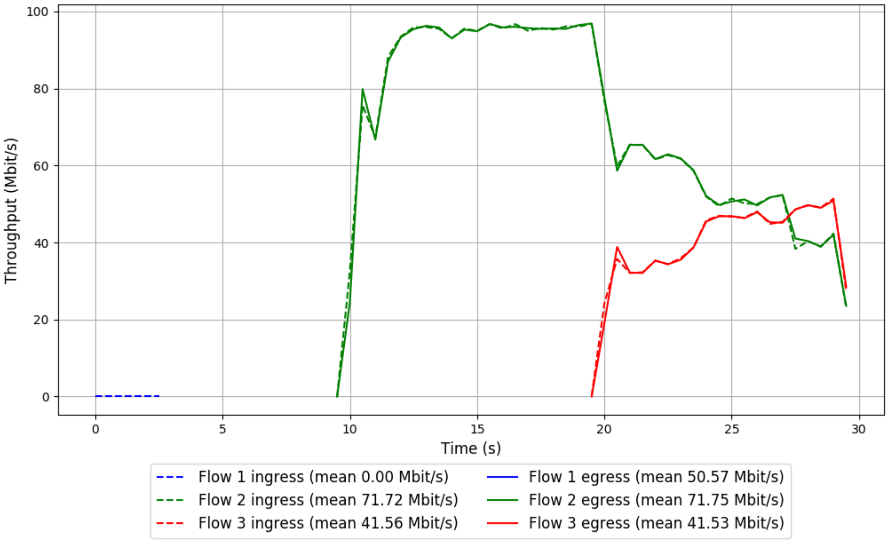
Run 6: Report of PCC — Data Link

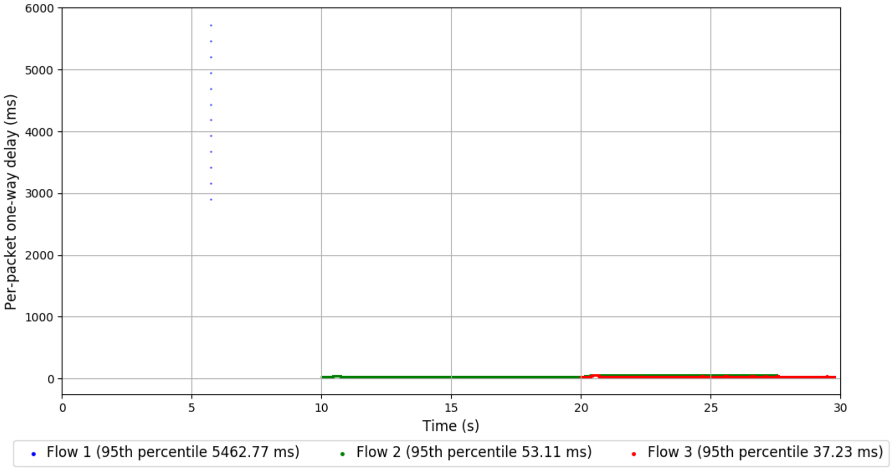




```
Run 7: Statistics of PCC

Start at: 2018-01-17 01:15:18
End at: 2018-01-17 01:15:48
Local clock offset: -2.992 ms
Remote clock offset: -14.324 ms

# Below is generated by plot.py at 2018-01-17 06:14:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.02 Mbit/s
95th percentile per-packet one-way delay: 52.799 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 50.57 Mbit/s
95th percentile per-packet one-way delay: 5462.769 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 71.75 Mbit/s
95th percentile per-packet one-way delay: 53.114 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 41.53 Mbit/s
95th percentile per-packet one-way delay: 37.227 ms
Loss rate: 0.31%
```

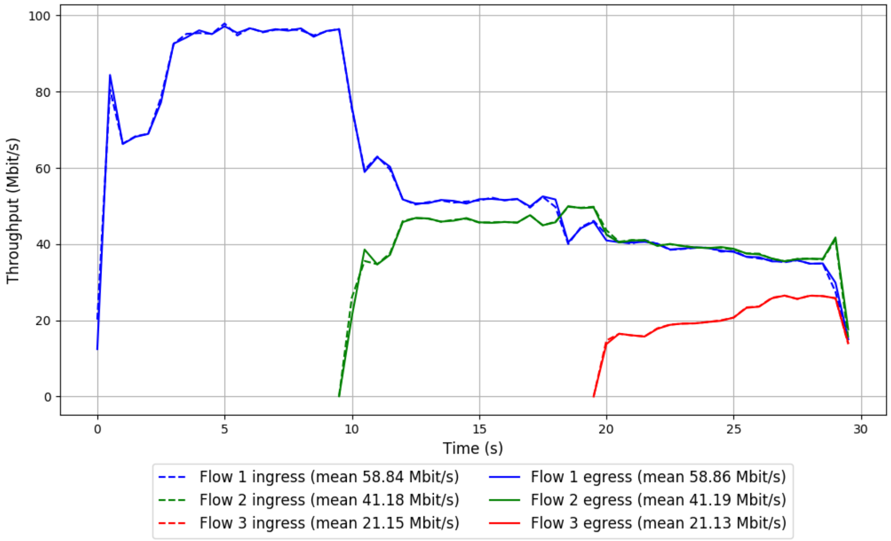
Run 7: Report of PCC — Data Link

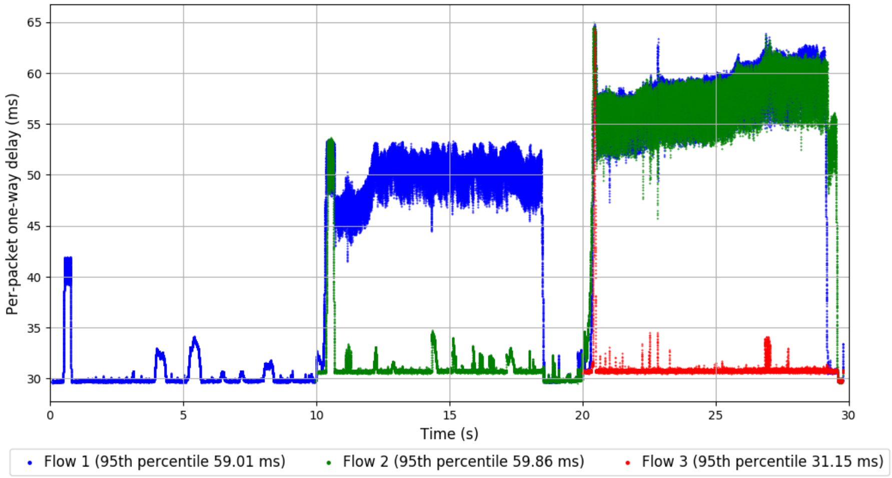




```
Run 8: Statistics of PCC

Start at: 2018-01-17 01:36:33
End at: 2018-01-17 01:37:03
Local clock offset: -3.791 ms
Remote clock offset: -15.003 ms

# Below is generated by plot.py at 2018-01-17 06:15:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.30 Mbit/s
95th percentile per-packet one-way delay: 59.200 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 58.86 Mbit/s
95th percentile per-packet one-way delay: 59.006 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 41.19 Mbit/s
95th percentile per-packet one-way delay: 59.860 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 21.13 Mbit/s
95th percentile per-packet one-way delay: 31.152 ms
Loss rate: 0.32%
```

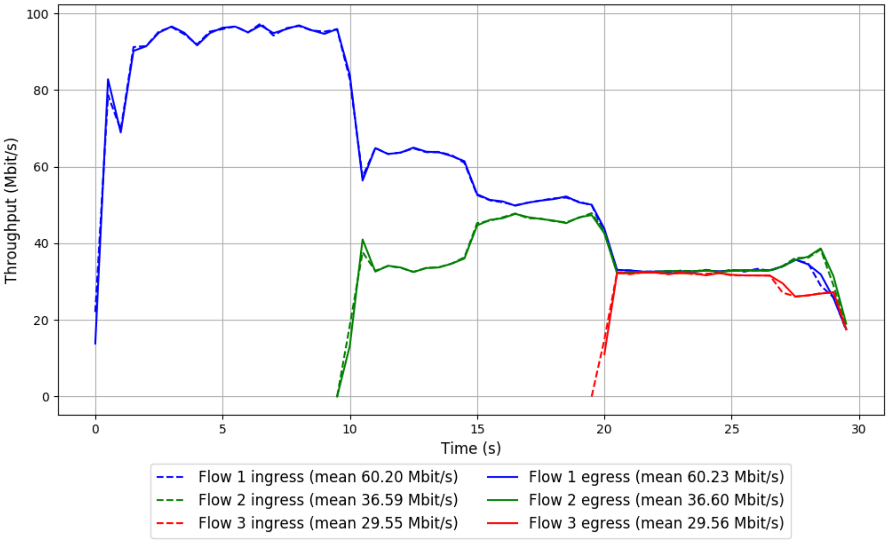
Run 8: Report of PCC — Data Link

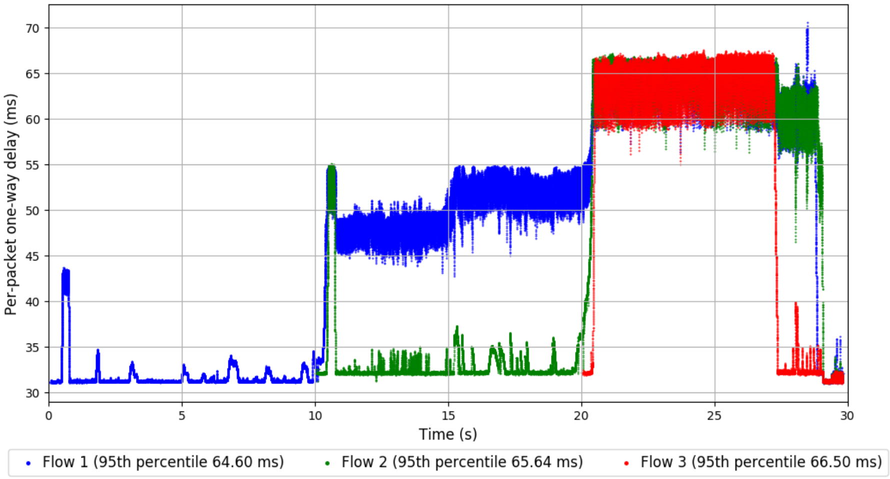




```
Run 9: Statistics of PCC

Start at: 2018-01-17 01:57:48
End at: 2018-01-17 01:58:18
Local clock offset: -1.584 ms
Remote clock offset: -16.133 ms

# Below is generated by plot.py at 2018-01-17 06:15:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.32 Mbit/s
95th percentile per-packet one-way delay: 65.493 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 60.23 Mbit/s
95th percentile per-packet one-way delay: 64.604 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 36.60 Mbit/s
95th percentile per-packet one-way delay: 65.638 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 29.56 Mbit/s
95th percentile per-packet one-way delay: 66.496 ms
Loss rate: 0.23%
```

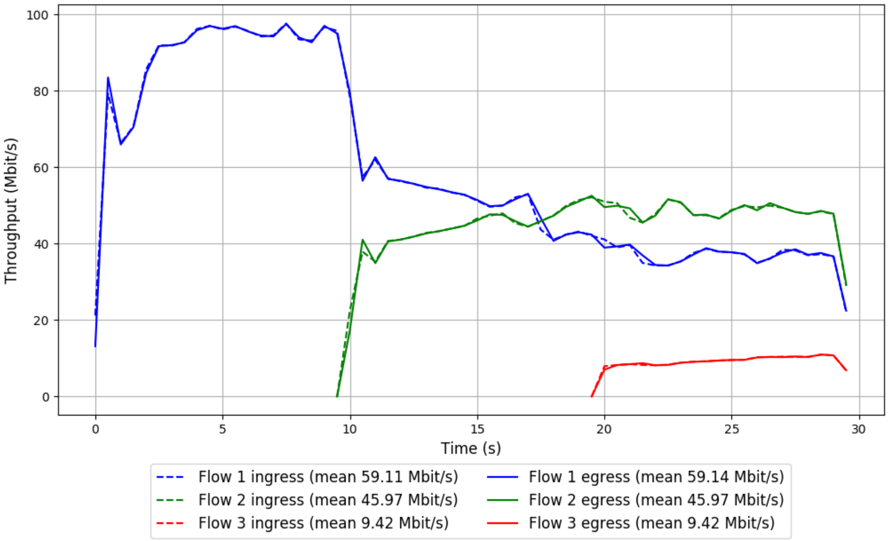
Run 9: Report of PCC — Data Link

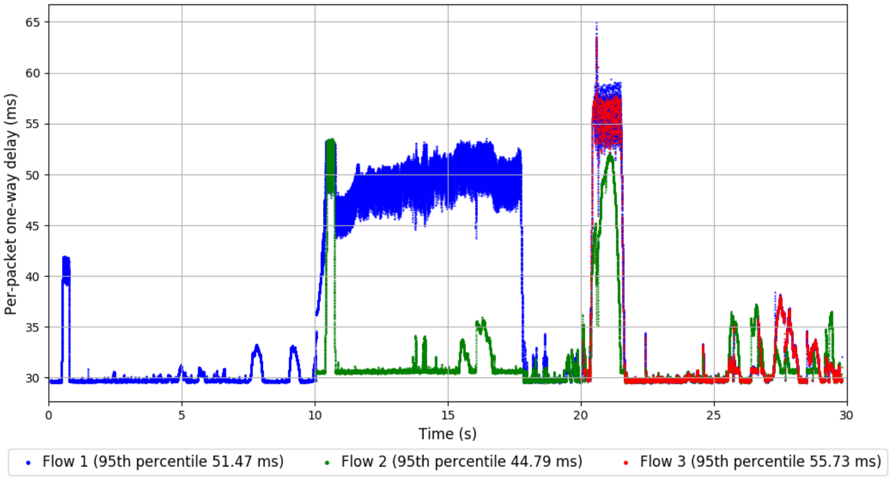




```
Run 10: Statistics of PCC

Start at: 2018-01-17 02:19:12
End at: 2018-01-17 02:19:42
Local clock offset: -4.057 ms
Remote clock offset: -17.222 ms

# Below is generated by plot.py at 2018-01-17 06:15:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.86 Mbit/s
95th percentile per-packet one-way delay: 51.044 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 59.14 Mbit/s
95th percentile per-packet one-way delay: 51.468 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 45.97 Mbit/s
95th percentile per-packet one-way delay: 44.789 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 9.42 Mbit/s
95th percentile per-packet one-way delay: 55.735 ms
Loss rate: 0.29%
```

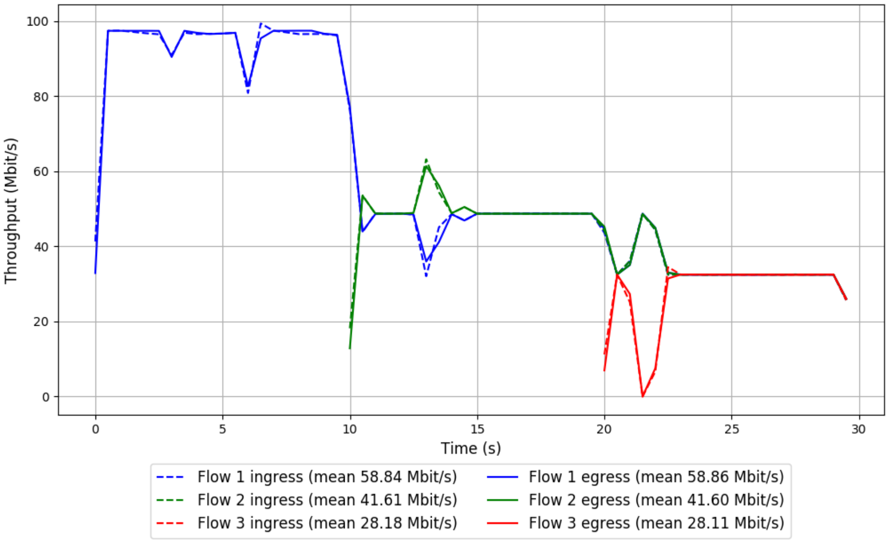
Run 10: Report of PCC — Data Link

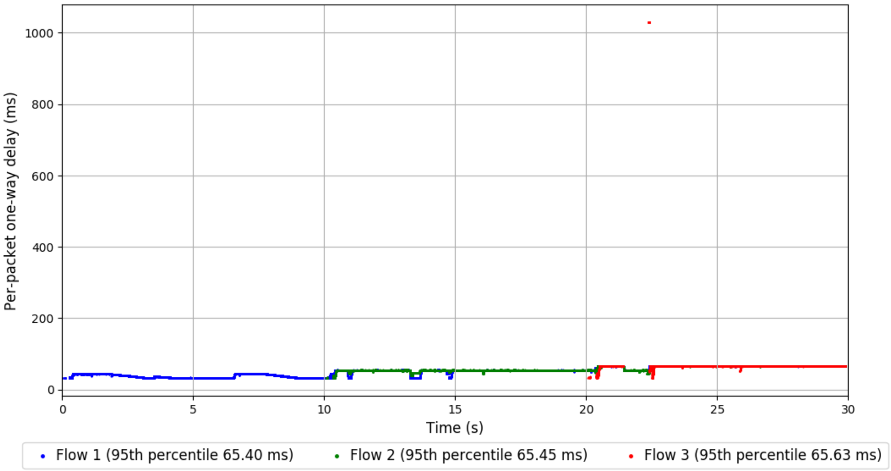




```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-16 23:10:17
End at: 2018-01-16 23:10:48
Local clock offset: -4.639 ms
Remote clock offset: -8.926 ms

# Below is generated by plot.py at 2018-01-17 06:15:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.79 Mbit/s
95th percentile per-packet one-way delay: 65.488 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 58.86 Mbit/s
95th percentile per-packet one-way delay: 65.400 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 41.60 Mbit/s
95th percentile per-packet one-way delay: 65.448 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 28.11 Mbit/s
95th percentile per-packet one-way delay: 65.631 ms
Loss rate: 0.69%
```

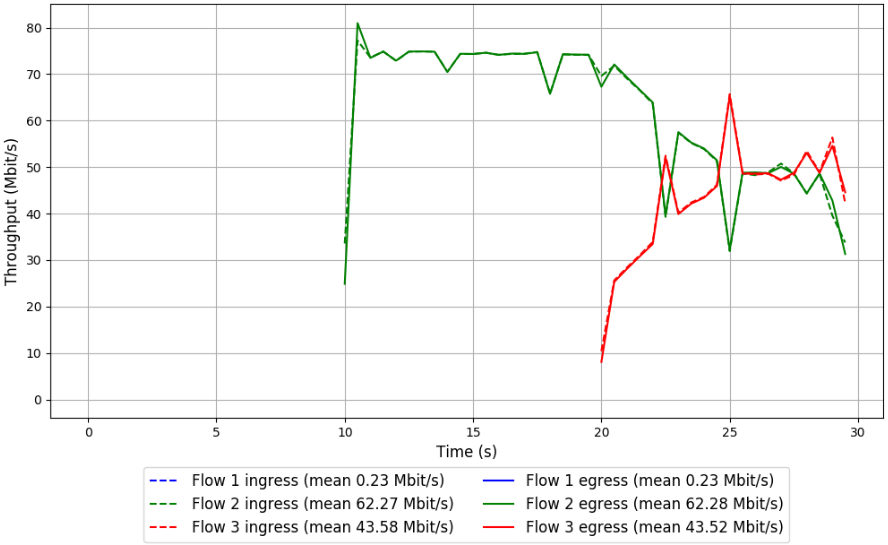
Run 1: Report of QUIC Cubic — Data Link

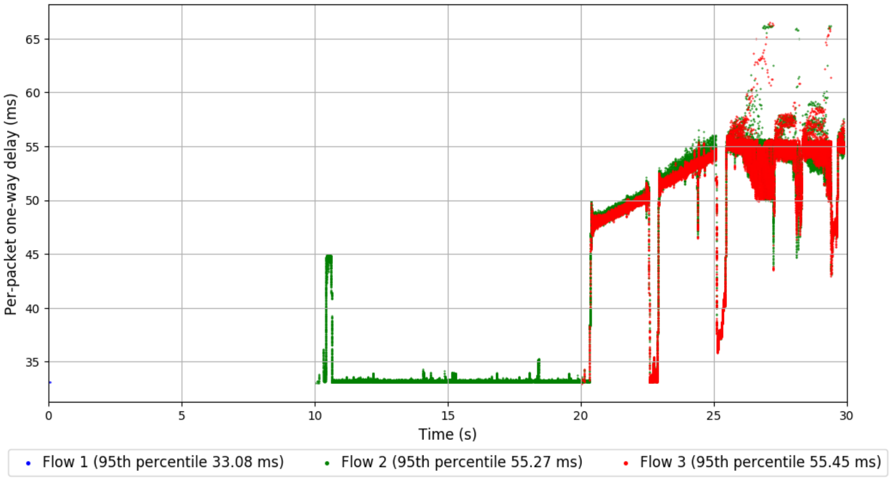




```
Run 2: Statistics of QUIC Cubic

Start at: 2018-01-16 23:31:42
End at: 2018-01-16 23:32:12
Local clock offset: -3.034 ms
Remote clock offset: -9.058 ms

# Below is generated by plot.py at 2018-01-17 06:15:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.76 Mbit/s
95th percentile per-packet one-way delay: 55.340 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 33.081 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 62.28 Mbit/s
95th percentile per-packet one-way delay: 55.268 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 43.52 Mbit/s
95th percentile per-packet one-way delay: 55.445 ms
Loss rate: 0.56%
```

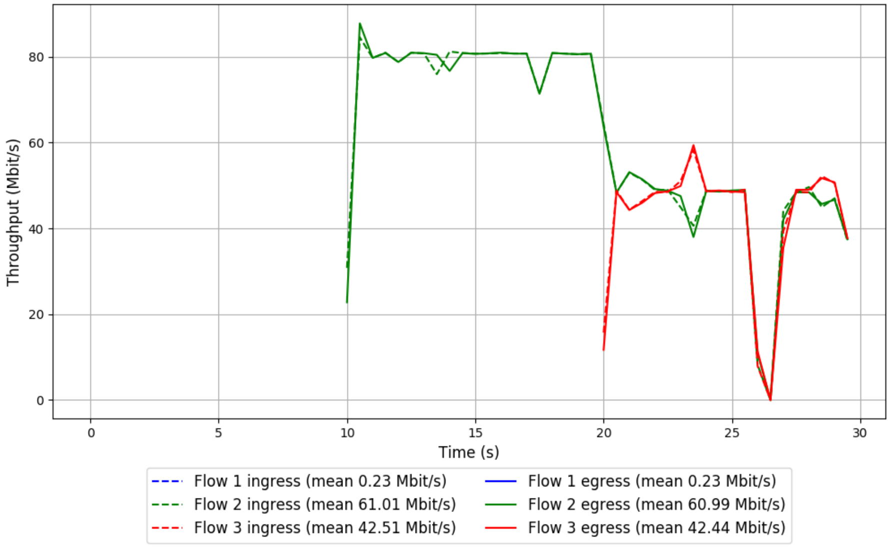
Run 2: Report of QUIC Cubic — Data Link

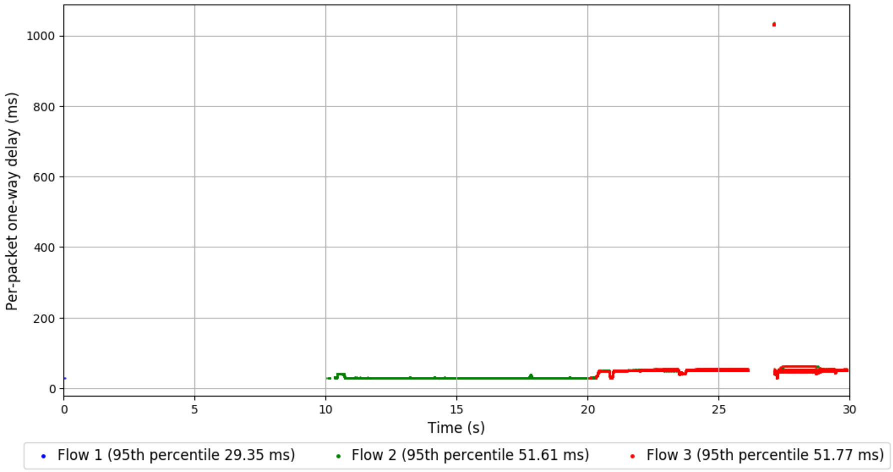




```
Run 3: Statistics of QUIC Cubic

Start at: 2018-01-16 23:52:55
End at: 2018-01-16 23:53:25
Local clock offset: -5.355 ms
Remote clock offset: -7.962 ms

# Below is generated by plot.py at 2018-01-17 06:15:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.55 Mbit/s
95th percentile per-packet one-way delay: 51.671 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 29.351 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 60.99 Mbit/s
95th percentile per-packet one-way delay: 51.612 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 42.44 Mbit/s
95th percentile per-packet one-way delay: 51.771 ms
Loss rate: 0.57%
```

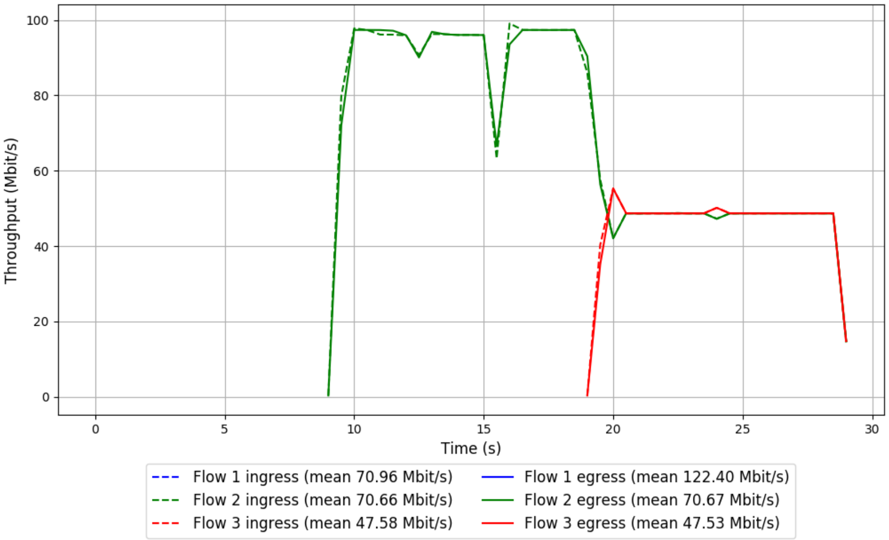
Run 3: Report of QUIC Cubic — Data Link

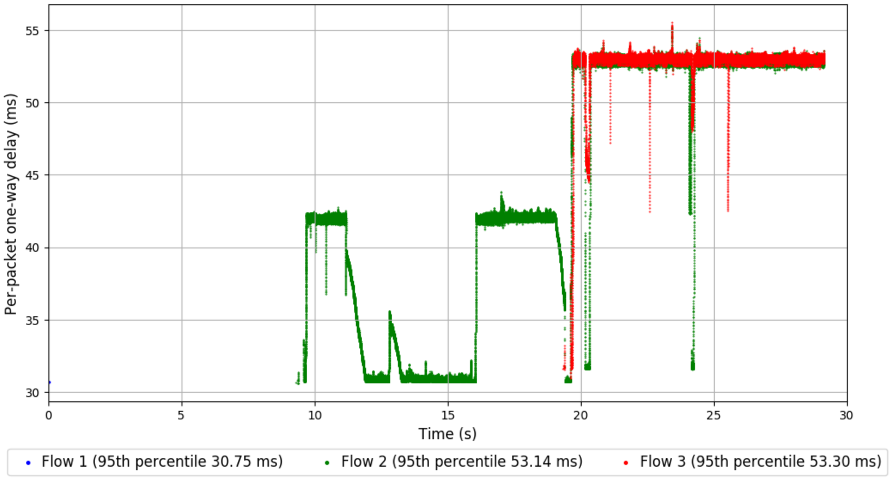




```
Run 4: Statistics of QUIC Cubic

Start at: 2018-01-17 00:14:00
End at: 2018-01-17 00:14:30
Local clock offset: -4.19 ms
Remote clock offset: -8.916 ms

# Below is generated by plot.py at 2018-01-17 06:15:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.23 Mbit/s
95th percentile per-packet one-way delay: 53.233 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 122.40 Mbit/s
95th percentile per-packet one-way delay: 30.746 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 70.67 Mbit/s
95th percentile per-packet one-way delay: 53.142 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 47.53 Mbit/s
95th percentile per-packet one-way delay: 53.296 ms
Loss rate: 0.51%
```

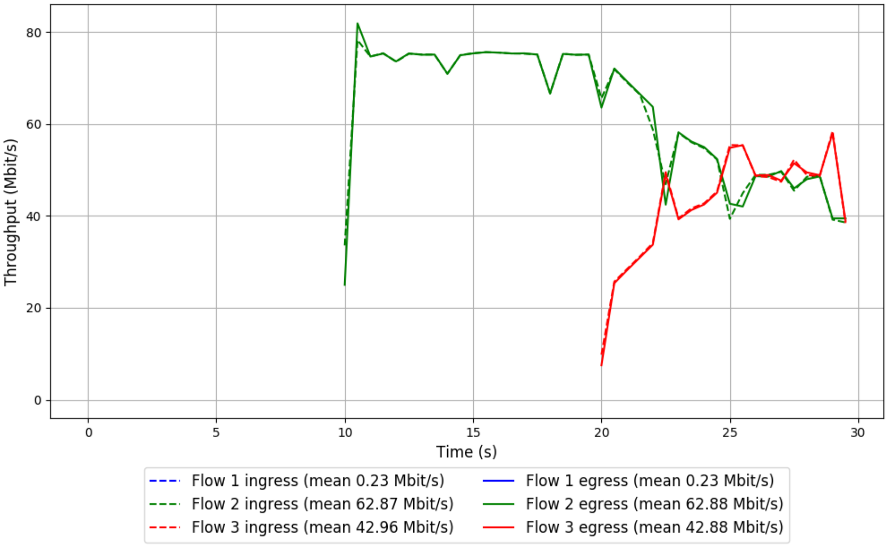
Run 4: Report of QUIC Cubic — Data Link

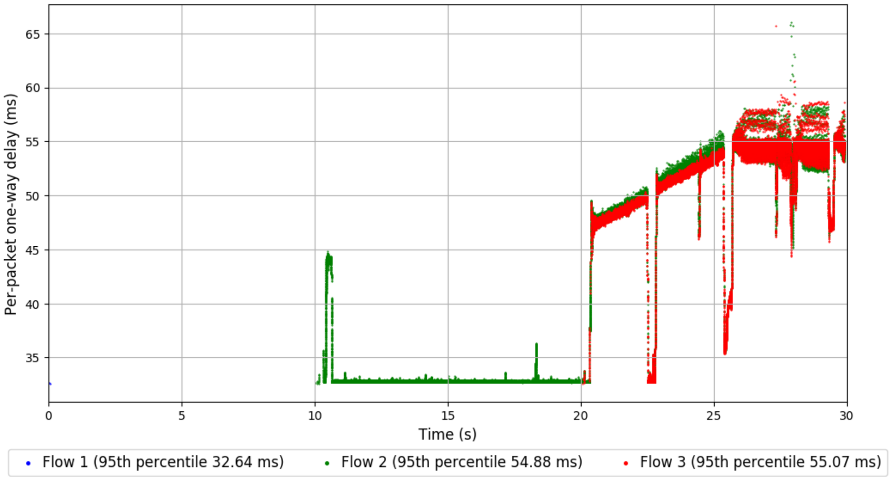




```
Run 5: Statistics of QUIC Cubic

Start at: 2018-01-17 00:35:15
End at: 2018-01-17 00:35:45
Local clock offset: -3.275 ms
Remote clock offset: -11.497 ms

# Below is generated by plot.py at 2018-01-17 06:15:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.94 Mbit/s
95th percentile per-packet one-way delay: 54.954 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 32.638 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 62.88 Mbit/s
95th percentile per-packet one-way delay: 54.876 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 42.88 Mbit/s
95th percentile per-packet one-way delay: 55.071 ms
Loss rate: 0.56%
```

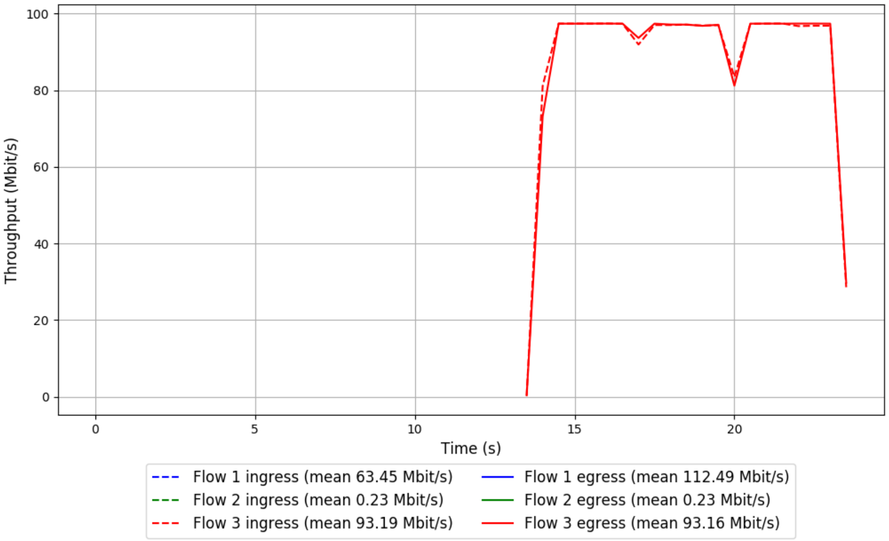
Run 5: Report of QUIC Cubic — Data Link

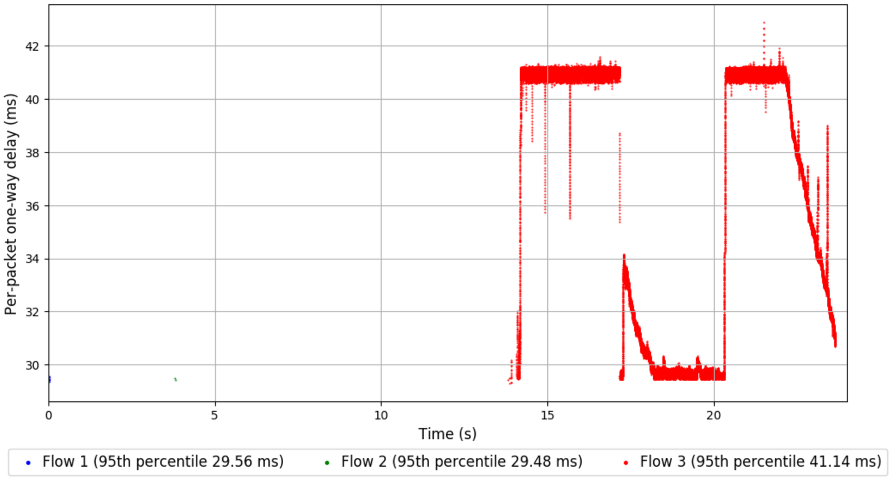




```
Run 6: Statistics of QUIC Cubic

Start at: 2018-01-17 00:56:29
End at: 2018-01-17 00:56:59
Local clock offset: -4.202 ms
Remote clock offset: -12.138 ms
```

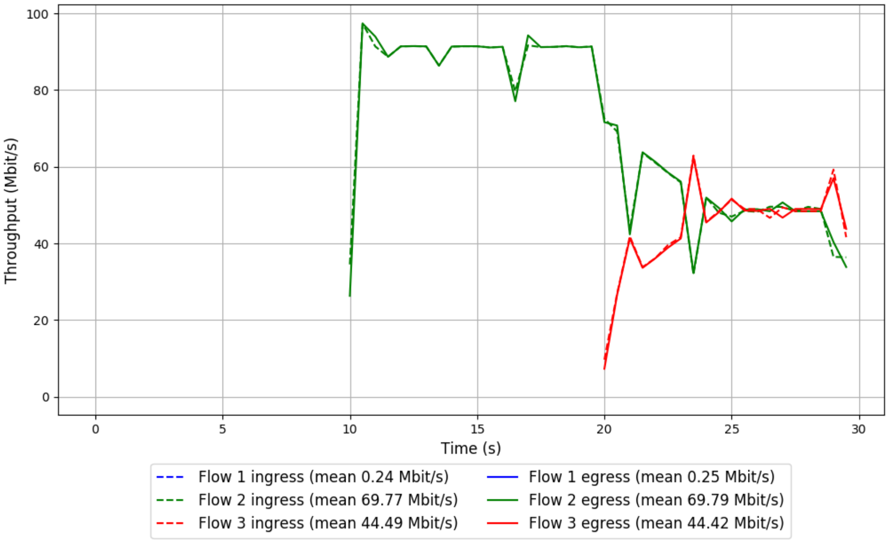
Run 6: Report of QUIC Cubic — Data Link

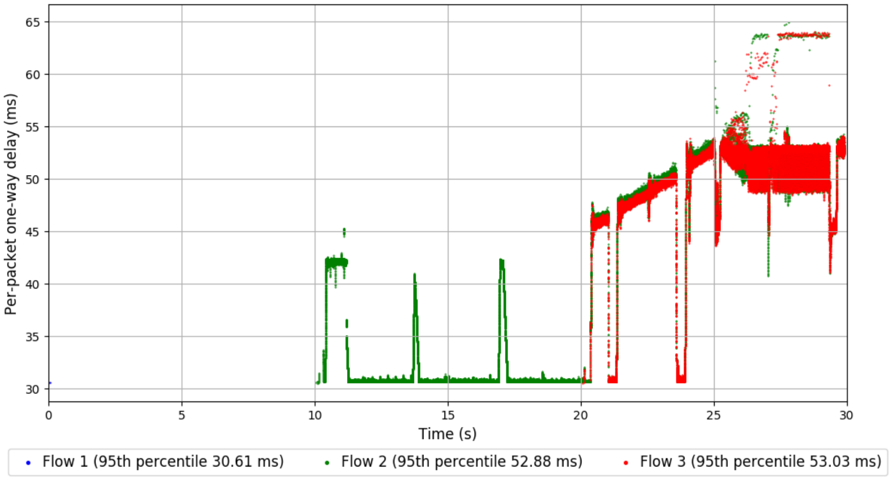




```
Run 7: Statistics of QUIC Cubic

Start at: 2018-01-17 01:17:35
End at: 2018-01-17 01:18:05
Local clock offset: -4.2 ms
Remote clock offset: -14.847 ms

# Below is generated by plot.py at 2018-01-17 06:16:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.01 Mbit/s
95th percentile per-packet one-way delay: 52.935 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 30.608 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 69.79 Mbit/s
95th percentile per-packet one-way delay: 52.876 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 44.42 Mbit/s
95th percentile per-packet one-way delay: 53.029 ms
Loss rate: 0.51%
```

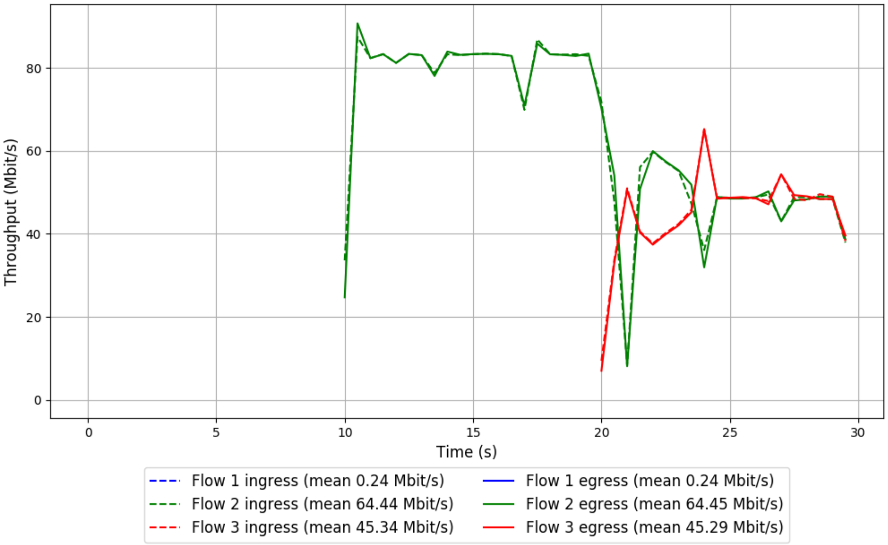
Run 7: Report of QUIC Cubic — Data Link

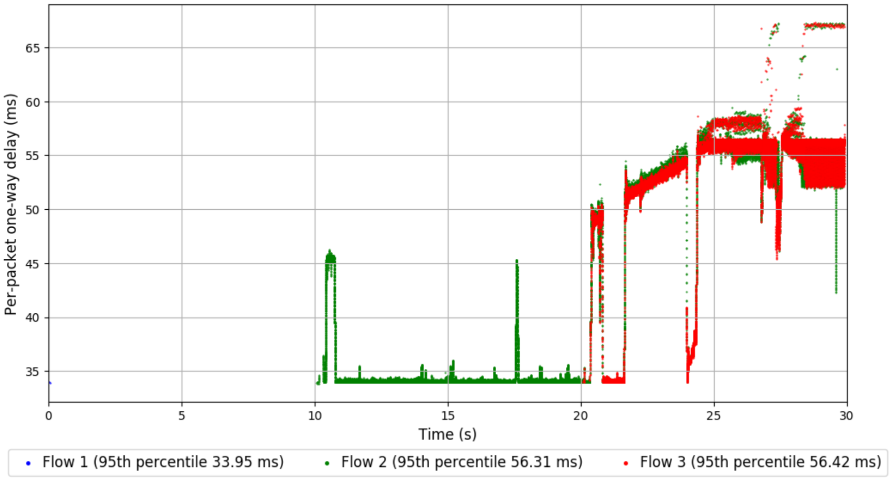




```
Run 8: Statistics of QUIC Cubic

Start at: 2018-01-17 01:38:51
End at: 2018-01-17 01:39:21
Local clock offset: -1.025 ms
Remote clock offset: -16.627 ms

# Below is generated by plot.py at 2018-01-17 06:16:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.73 Mbit/s
95th percentile per-packet one-way delay: 56.347 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 33.946 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 64.45 Mbit/s
95th percentile per-packet one-way delay: 56.307 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 45.29 Mbit/s
95th percentile per-packet one-way delay: 56.419 ms
Loss rate: 0.52%
```

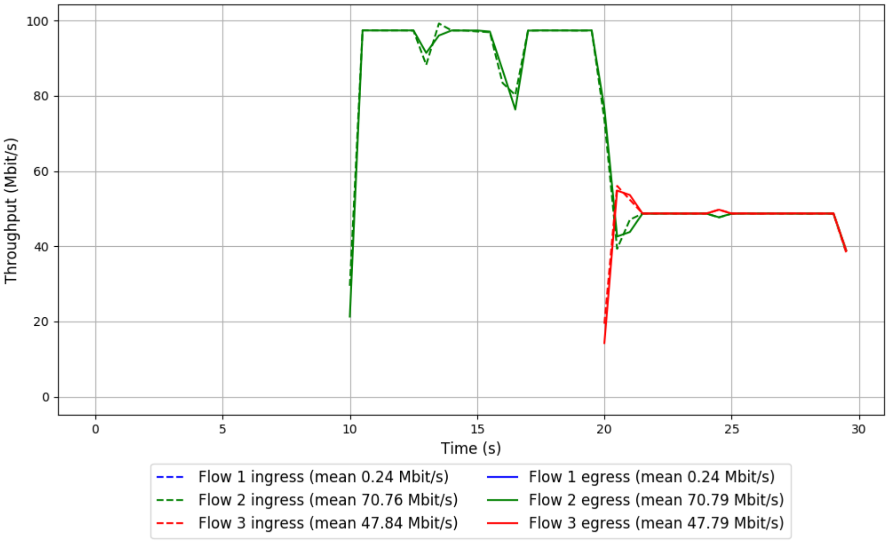
Run 8: Report of QUIC Cubic — Data Link

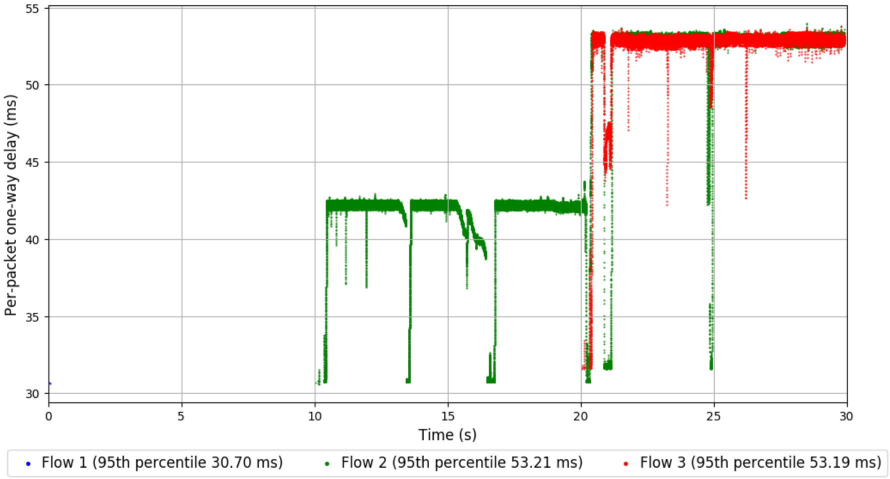




```
Run 9: Statistics of QUIC Cubic

Start at: 2018-01-17 02:00:06
End at: 2018-01-17 02:00:36
Local clock offset: -3.095 ms
Remote clock offset: -17.342 ms

# Below is generated by plot.py at 2018-01-17 06:16:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.84 Mbit/s
95th percentile per-packet one-way delay: 53.201 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 30.704 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 70.79 Mbit/s
95th percentile per-packet one-way delay: 53.208 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 47.79 Mbit/s
95th percentile per-packet one-way delay: 53.194 ms
Loss rate: 0.49%
```

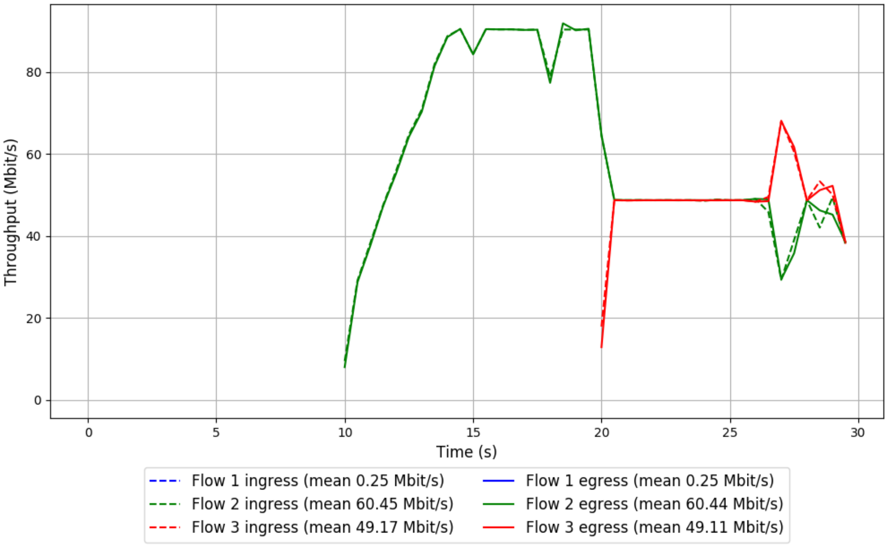
Run 9: Report of QUIC Cubic — Data Link

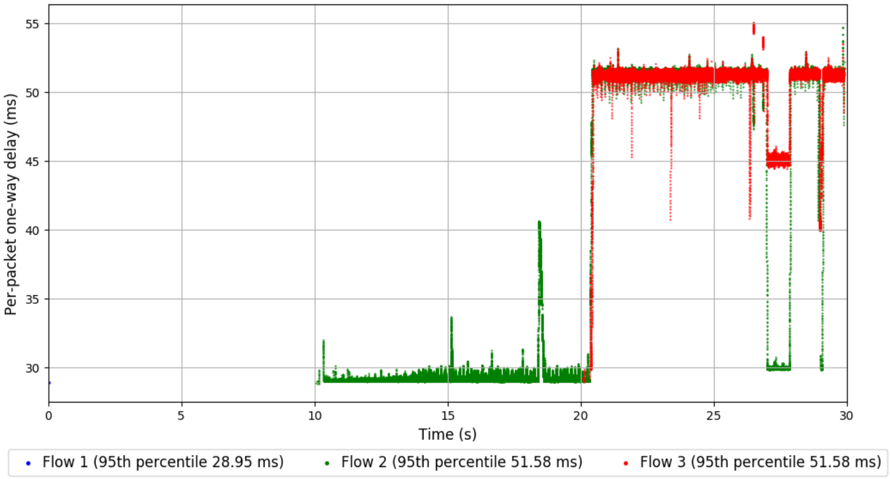




```
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-17 02:21:31
End at: 2018-01-17 02:22:01
Local clock offset: -3.419 ms
Remote clock offset: -16.113 ms

# Below is generated by plot.py at 2018-01-17 06:16:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 56.34 Mbit/s
95th percentile per-packet one-way delay: 51.580 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 28.945 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 60.44 Mbit/s
95th percentile per-packet one-way delay: 51.579 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 49.11 Mbit/s
95th percentile per-packet one-way delay: 51.580 ms
Loss rate: 0.47%
```

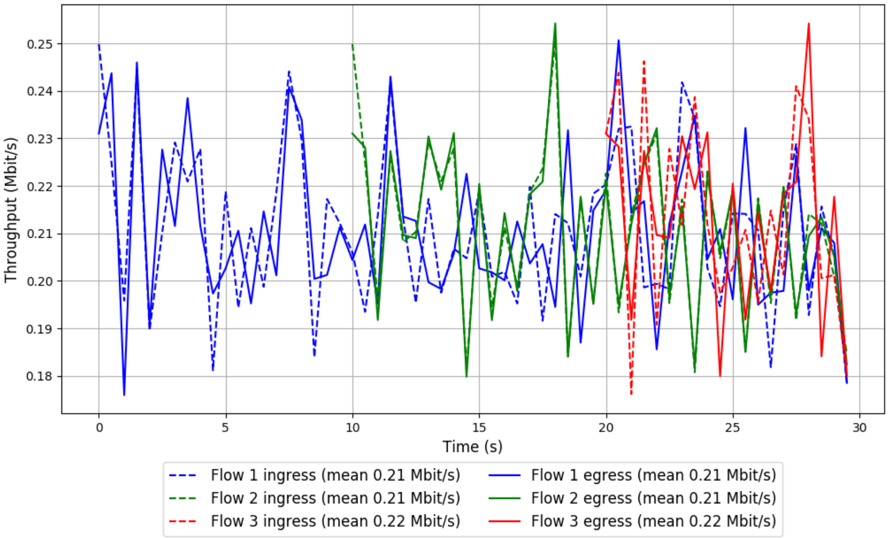
Run 10: Report of QUIC Cubic — Data Link

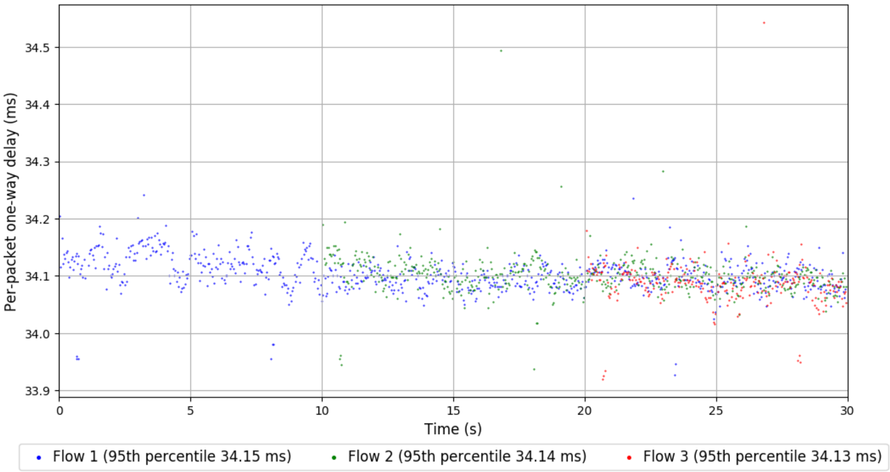




```
Run 1: Statistics of SCReAM

Start at: 2018-01-16 22:57:30
End at: 2018-01-16 22:58:00
Local clock offset: -1.672 ms
Remote clock offset: -7.996 ms

# Below is generated by plot.py at 2018-01-17 06:16:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 34.149 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 34.153 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 34.142 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 34.129 ms
Loss rate: 0.00%
```

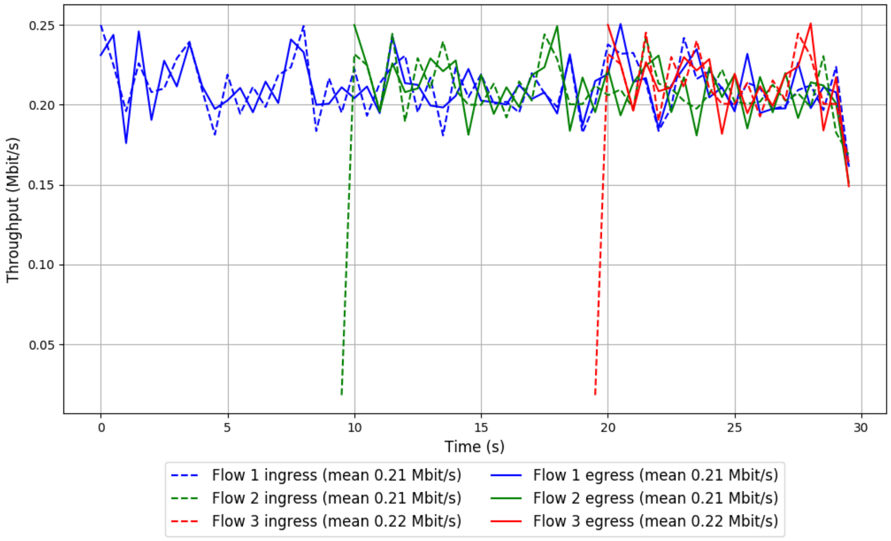
Run 1: Report of SCReAM — Data Link

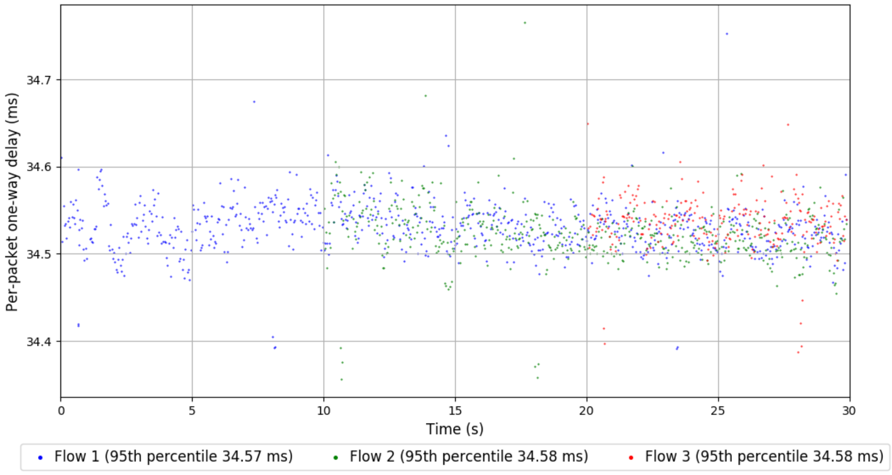




```
Run 2: Statistics of SCReAM

Start at: 2018-01-16 23:18:54
End at: 2018-01-16 23:19:24
Local clock offset: -1.256 ms
Remote clock offset: -7.933 ms

# Below is generated by plot.py at 2018-01-17 06:16:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 34.574 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 34.573 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 34.575 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 34.578 ms
Loss rate: 0.35%
```

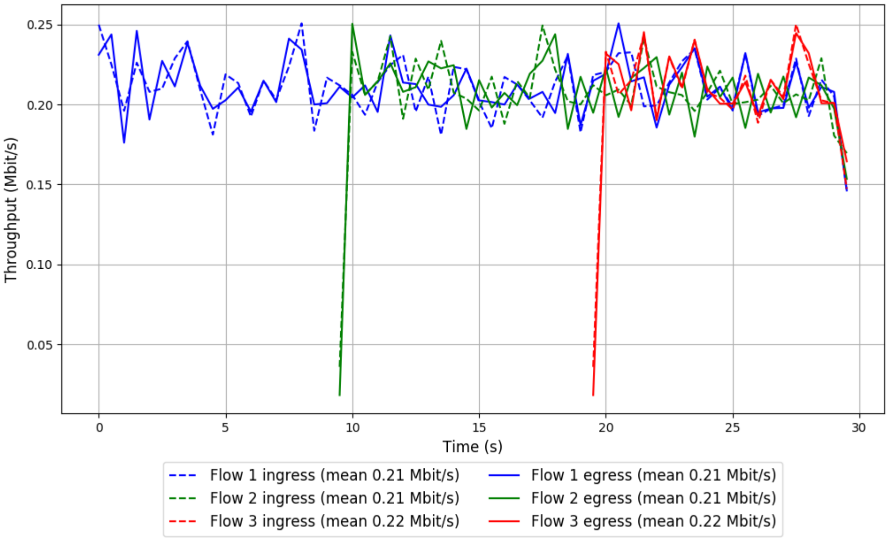
Run 2: Report of SCReAM — Data Link

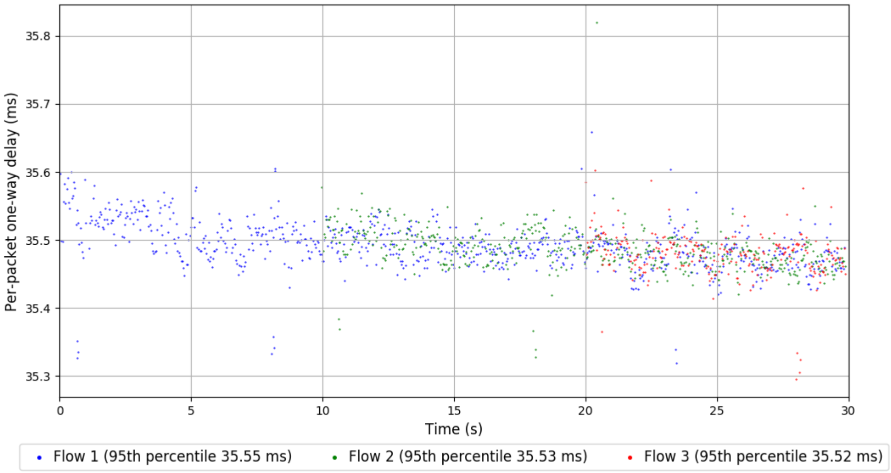




```
Run 3: Statistics of SCReAM

Start at: 2018-01-16 23:40:06
End at: 2018-01-16 23:40:36
Local clock offset: 0.385 ms
Remote clock offset: -8.455 ms

# Below is generated by plot.py at 2018-01-17 06:16:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 35.542 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 35.548 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 35.534 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 35.518 ms
Loss rate: 0.00%
```

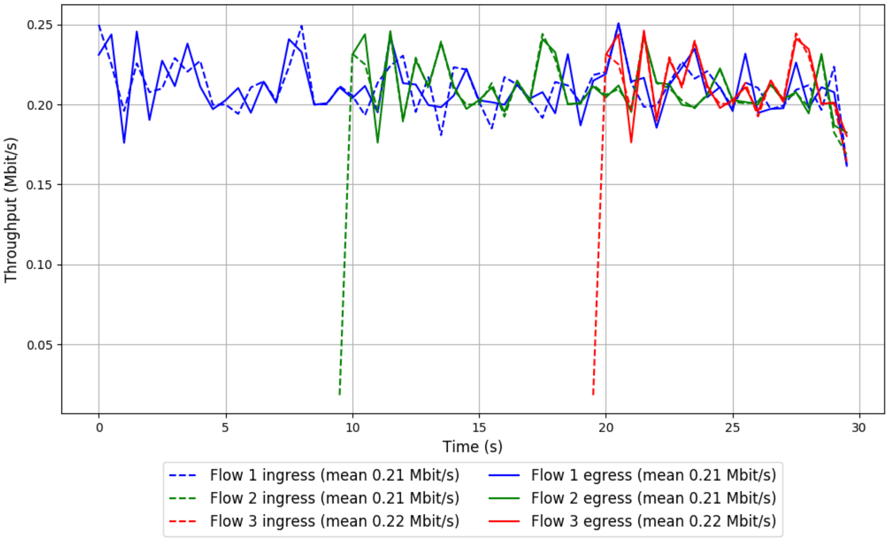
Run 3: Report of SCReAM — Data Link

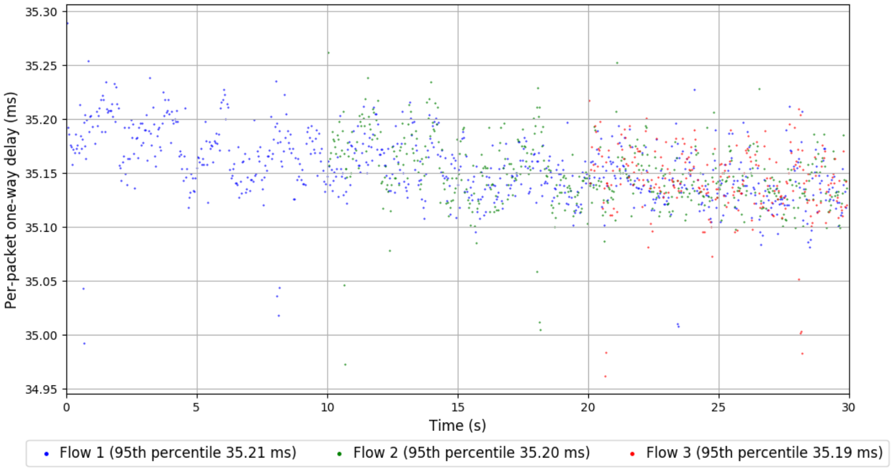




```
Run 4: Statistics of SCReAM

Start at: 2018-01-17 00:01:11
End at: 2018-01-17 00:01:41
Local clock offset: -0.595 ms
Remote clock offset: -8.791 ms

# Below is generated by plot.py at 2018-01-17 06:16:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 35.204 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 35.208 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 35.201 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 35.189 ms
Loss rate: 0.00%
```

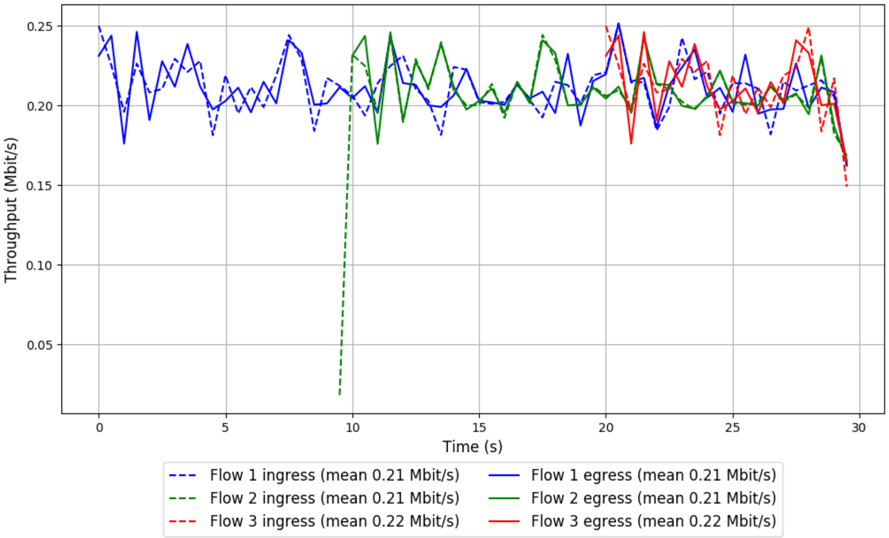
Run 4: Report of SCReAM — Data Link

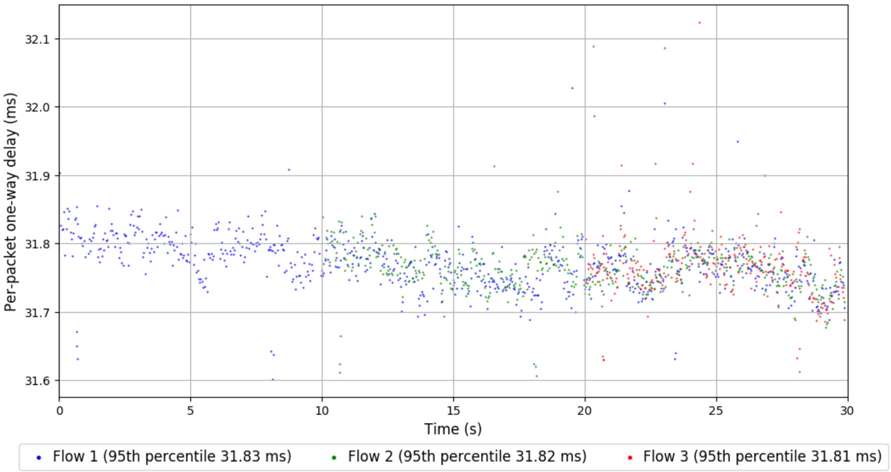




```
Run 5: Statistics of SCReAM

Start at: 2018-01-17 00:22:32
End at: 2018-01-17 00:23:02
Local clock offset: -3.012 ms
Remote clock offset: -9.475 ms

# Below is generated by plot.py at 2018-01-17 06:16:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 31.823 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.828 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.817 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.813 ms
Loss rate: 0.00%
```

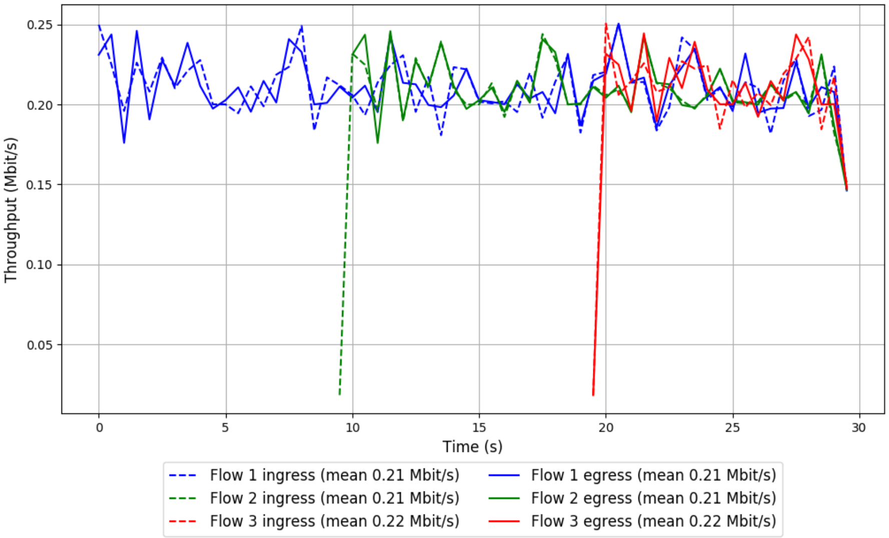
Run 5: Report of SCReAM — Data Link

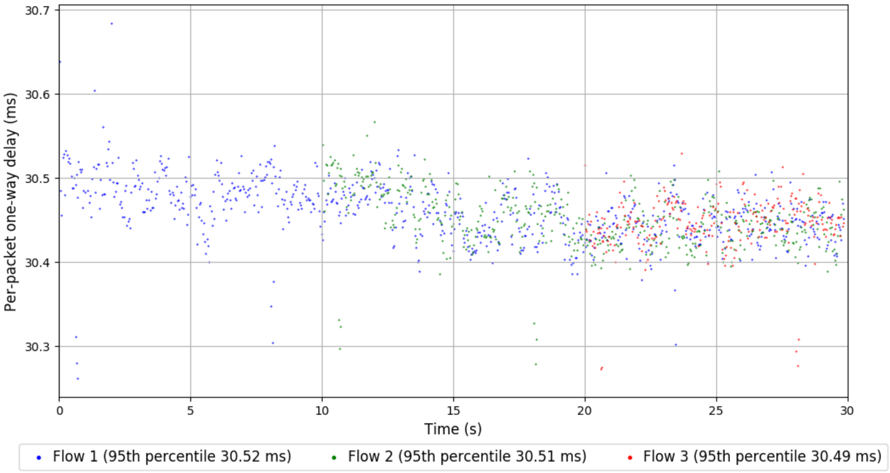




```
Run 6: Statistics of SCReAM

Start at: 2018-01-17 00:43:39
End at: 2018-01-17 00:44:09
Local clock offset: -5.895 ms
Remote clock offset: -12.402 ms

# Below is generated by plot.py at 2018-01-17 06:16:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 30.511 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.517 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.506 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.489 ms
Loss rate: 0.35%
```

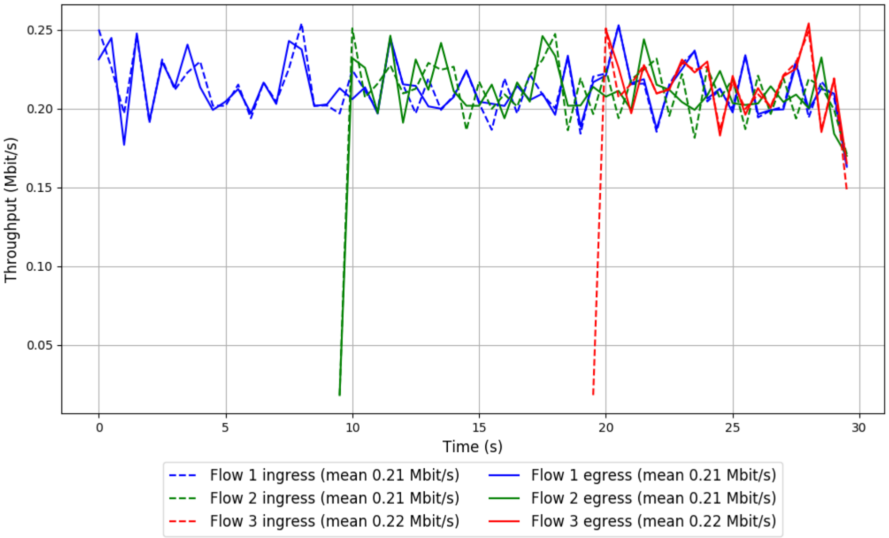
Run 6: Report of SCReAM — Data Link

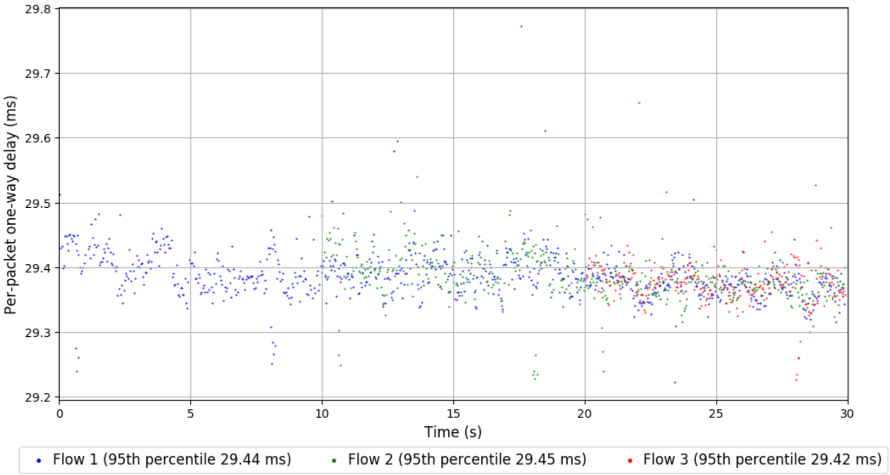




```
Run 7: Statistics of SCReAM

Start at: 2018-01-17 01:04:47
End at: 2018-01-17 01:05:17
Local clock offset: -3.854 ms
Remote clock offset: -12.17 ms

# Below is generated by plot.py at 2018-01-17 06:16:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 29.442 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 29.443 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 29.445 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.423 ms
Loss rate: 0.00%
```

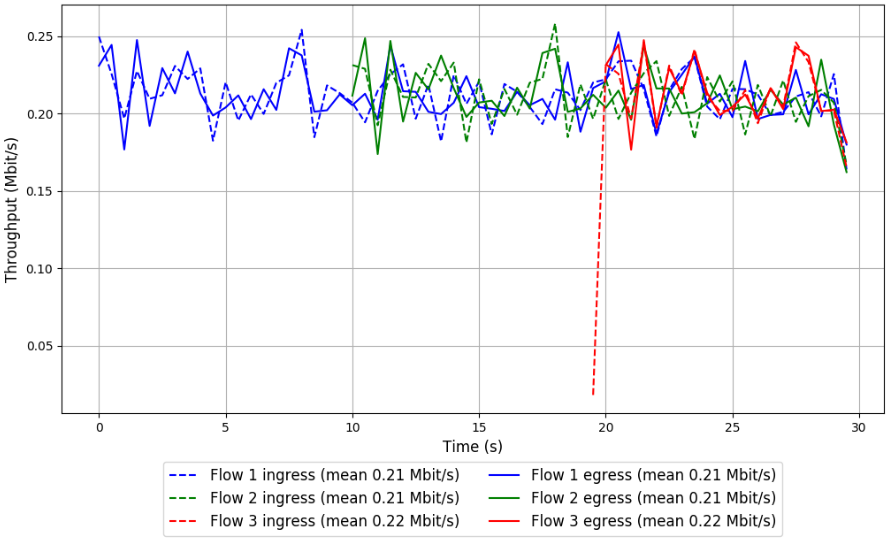
Run 7: Report of SCReAM — Data Link

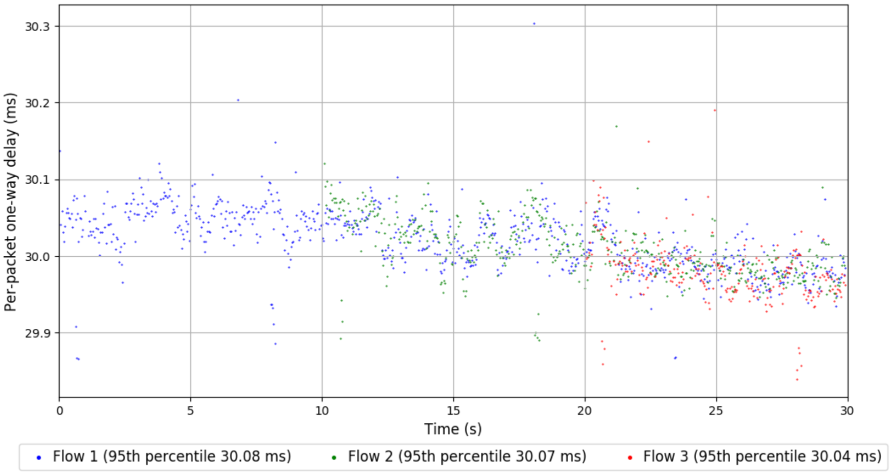




```
Run 8: Statistics of SCReAM

Start at: 2018-01-17 01:26:02
End at: 2018-01-17 01:26:32
Local clock offset: -5.125 ms
Remote clock offset: -15.782 ms

# Below is generated by plot.py at 2018-01-17 06:16:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 30.074 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.078 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.072 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.041 ms
Loss rate: 0.00%
```

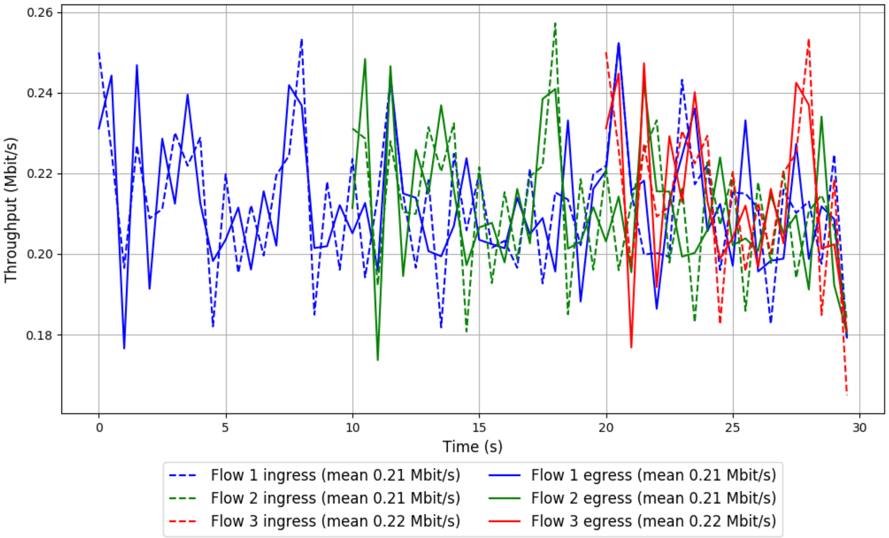
Run 8: Report of SCReAM — Data Link

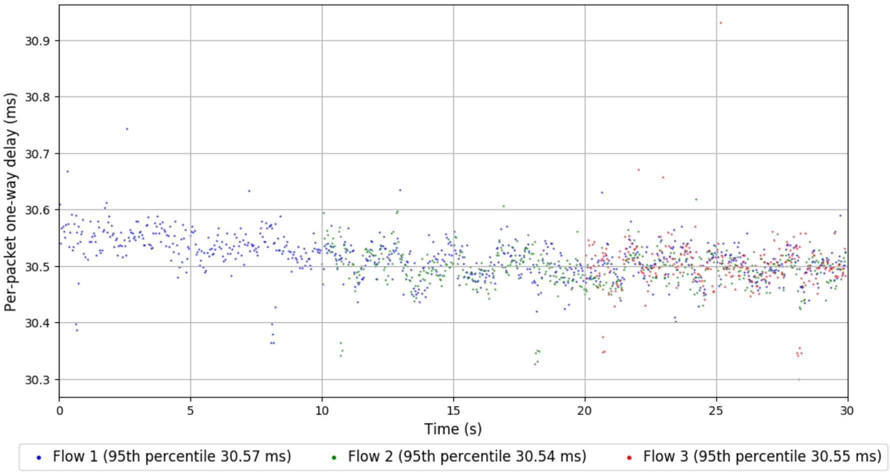




```
Run 9: Statistics of SCReAM

Start at: 2018-01-17 01:47:13
End at: 2018-01-17 01:47:43
Local clock offset: -4.664 ms
Remote clock offset: -17.37 ms

# Below is generated by plot.py at 2018-01-17 06:16:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 30.562 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.572 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.544 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.552 ms
Loss rate: 0.00%
```

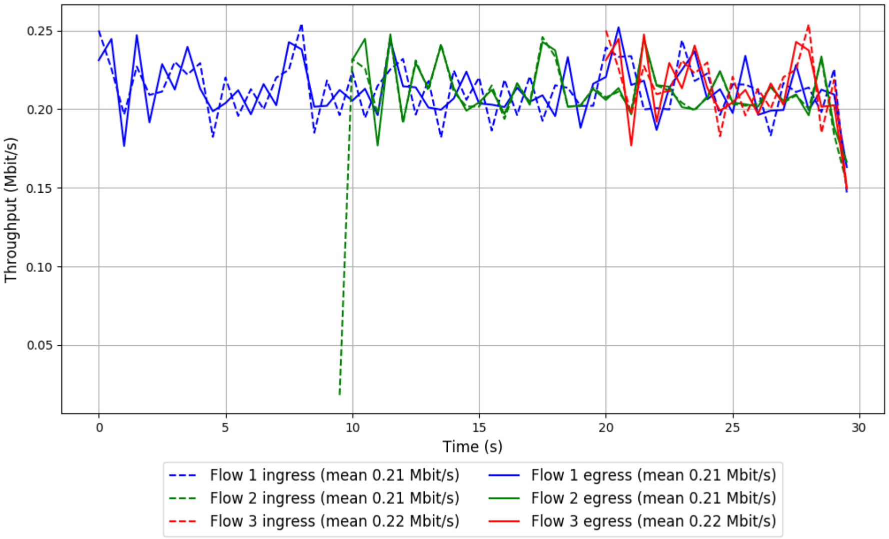
Run 9: Report of SCReAM — Data Link

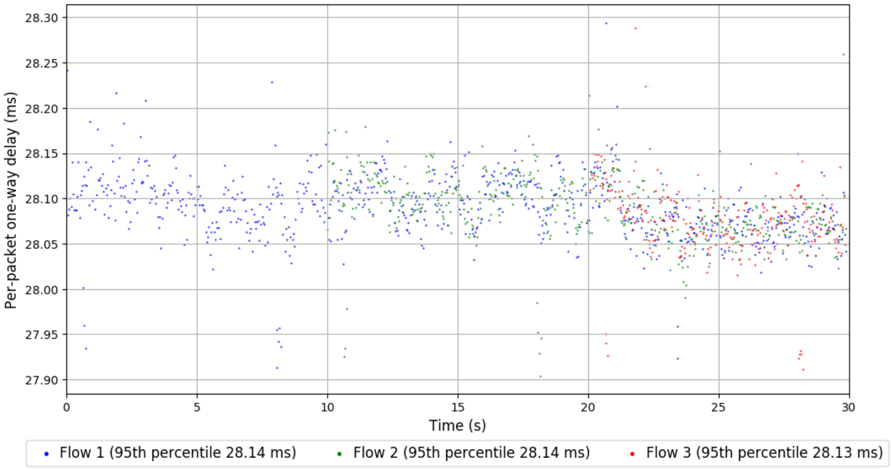




```
Run 10: Statistics of SCReAM

Start at: 2018-01-17 02:08:36
End at: 2018-01-17 02:09:06
Local clock offset: -5.855 ms
Remote clock offset: -17.457 ms

# Below is generated by plot.py at 2018-01-17 06:16:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 28.141 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 28.141 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 28.141 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.132 ms
Loss rate: 0.39%
```

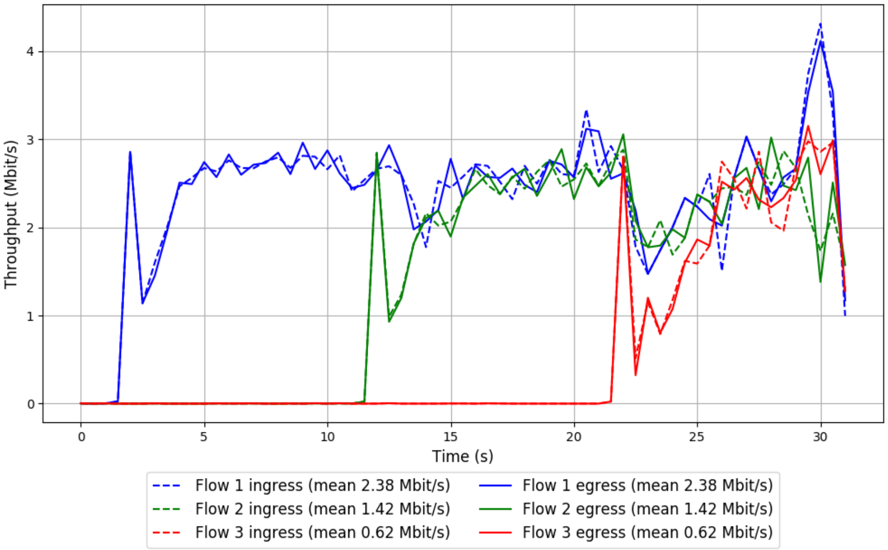
Run 10: Report of SCReAM — Data Link

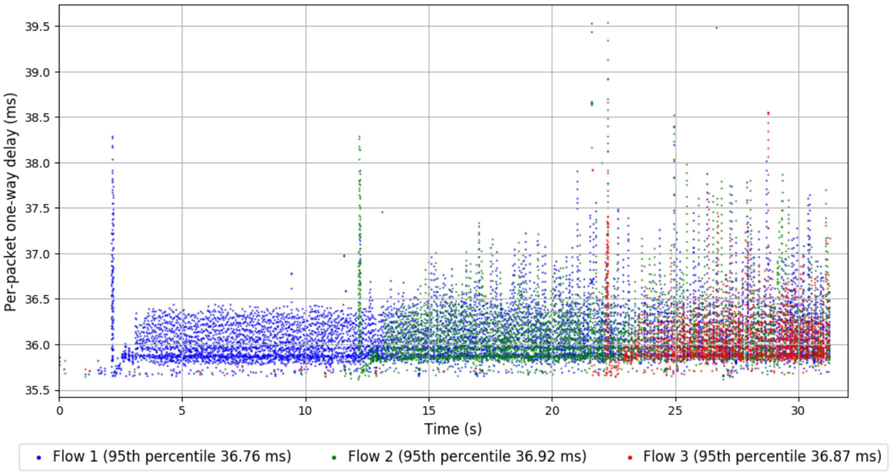




```
Run 1: Statistics of WebRTC media

Start at: 2018-01-16 23:04:31
End at: 2018-01-16 23:05:01
Local clock offset: -3.054 ms
Remote clock offset: -11.062 ms

# Below is generated by plot.py at 2018-01-17 06:16:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.42 Mbit/s
95th percentile per-packet one-way delay: 36.823 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 36.757 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 36.925 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 36.873 ms
Loss rate: 0.65%
```

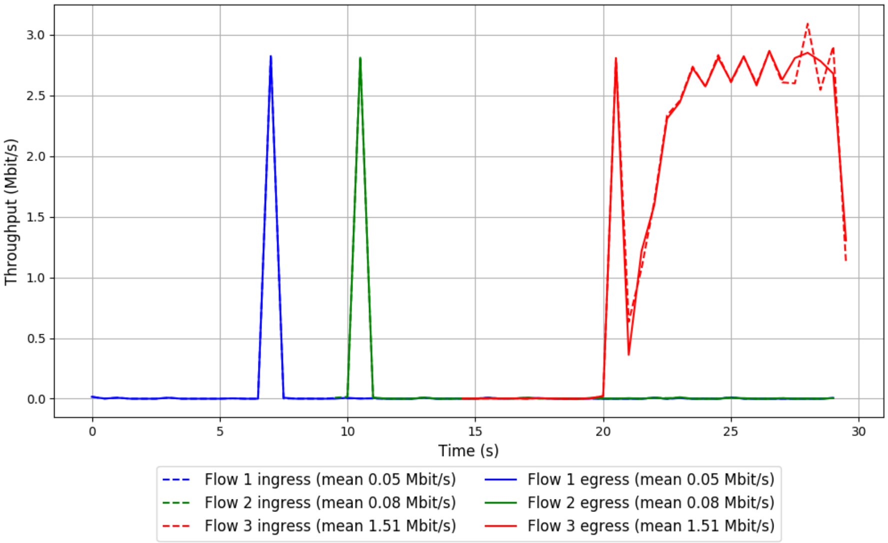
Run 1: Report of WebRTC media — Data Link

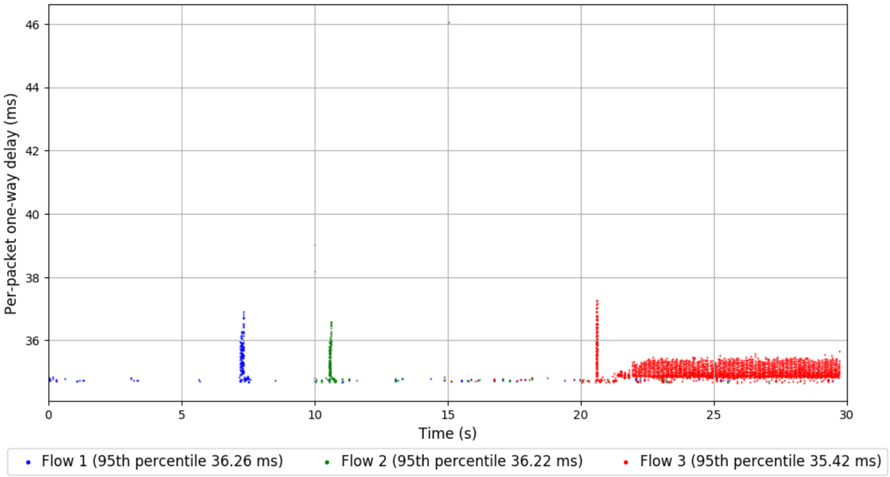




```
Run 2: Statistics of WebRTC media

Start at: 2018-01-16 23:25:53
End at: 2018-01-16 23:26:23
Local clock offset: -2.277 ms
Remote clock offset: -9.731 ms

# Below is generated by plot.py at 2018-01-17 06:16:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.85 Mbit/s
95th percentile per-packet one-way delay: 35.759 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 36.255 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 36.215 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.51 Mbit/s
95th percentile per-packet one-way delay: 35.421 ms
Loss rate: 0.08%
```

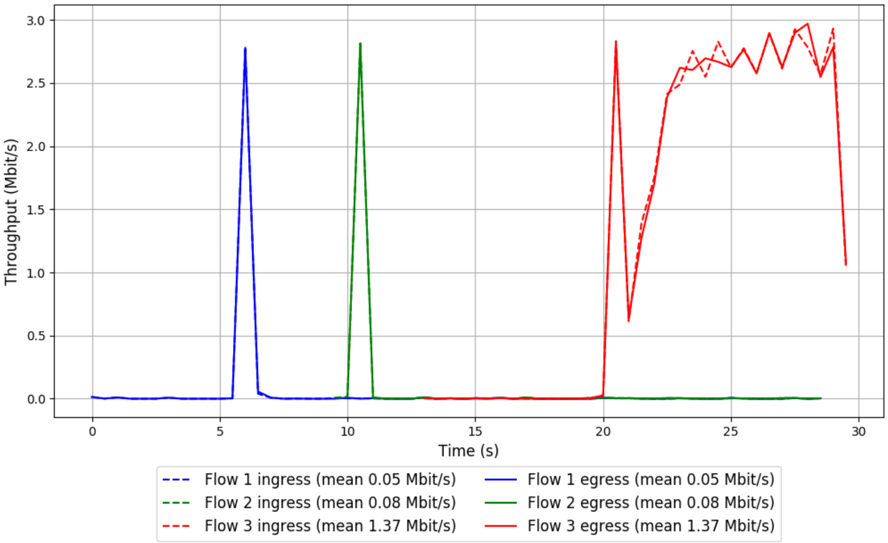
Run 2: Report of WebRTC media — Data Link

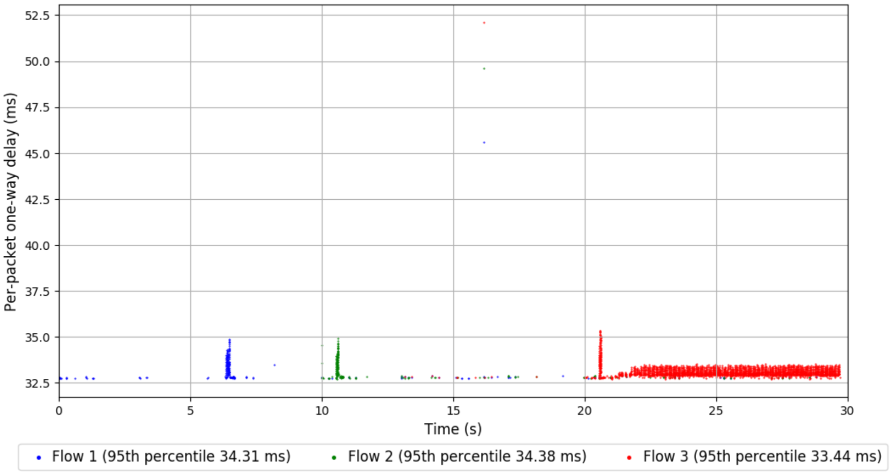




```
Run 3: Statistics of WebRTC media

Start at: 2018-01-16 23:47:07
End at: 2018-01-16 23:47:37
Local clock offset: -1.972 ms
Remote clock offset: -8.24 ms

# Below is generated by plot.py at 2018-01-17 06:16:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 33.786 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 34.312 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 34.377 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.37 Mbit/s
95th percentile per-packet one-way delay: 33.437 ms
Loss rate: 0.39%
```

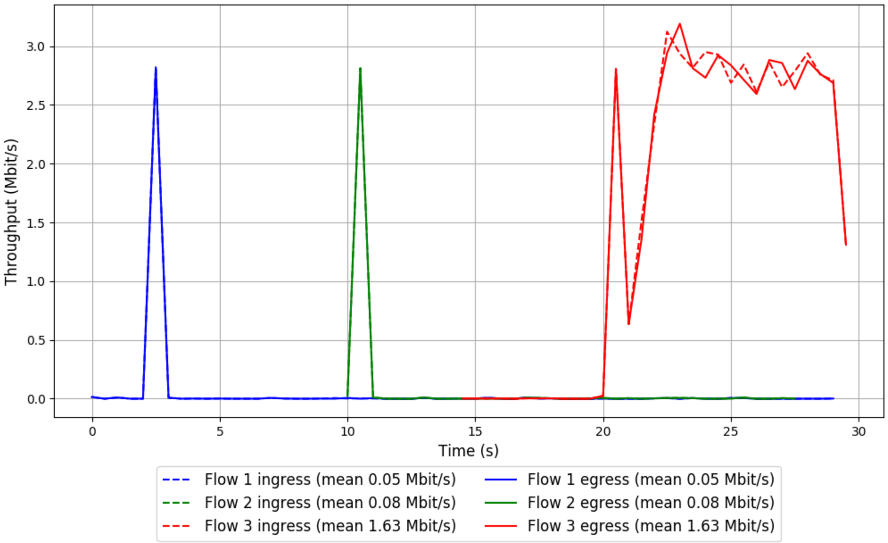
Run 3: Report of WebRTC media — Data Link

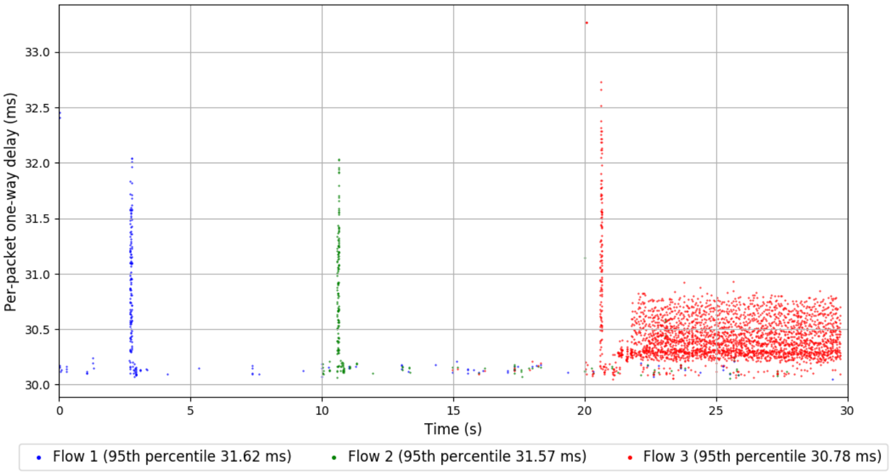




```
Run 4: Statistics of WebRTC media

Start at: 2018-01-17 00:08:09
End at: 2018-01-17 00:08:39
Local clock offset: -3.883 ms
Remote clock offset: -7.749 ms

# Below is generated by plot.py at 2018-01-17 06:16:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.91 Mbit/s
95th percentile per-packet one-way delay: 31.153 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 31.618 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 31.571 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.63 Mbit/s
95th percentile per-packet one-way delay: 30.778 ms
Loss rate: 0.46%
```

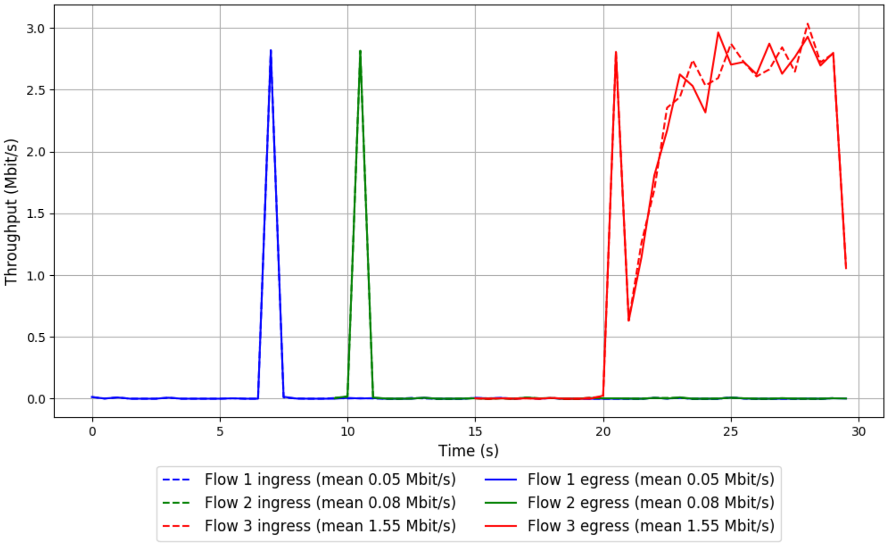
Run 4: Report of WebRTC media — Data Link

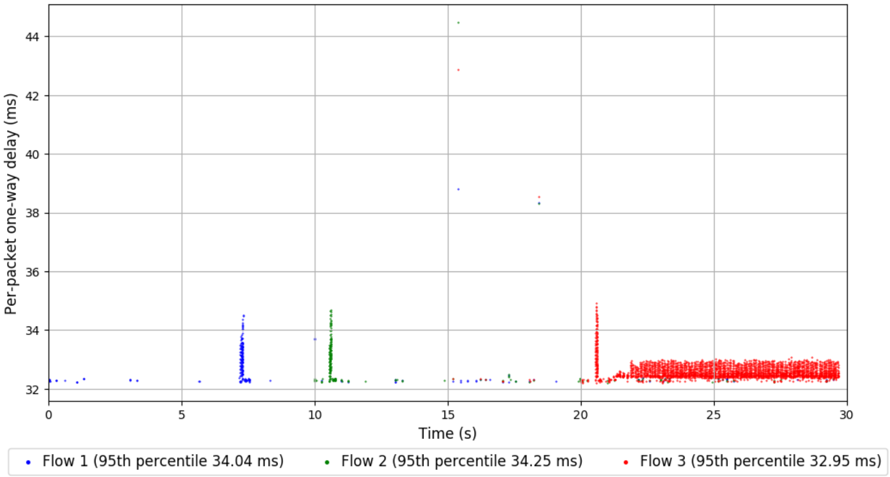




```
Run 5: Statistics of WebRTC media

Start at: 2018-01-17 00:29:32
End at: 2018-01-17 00:30:02
Local clock offset: -2.809 ms
Remote clock offset: -10.352 ms

# Below is generated by plot.py at 2018-01-17 06:16:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 33.390 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 34.044 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 34.251 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.55 Mbit/s
95th percentile per-packet one-way delay: 32.948 ms
Loss rate: 0.52%
```

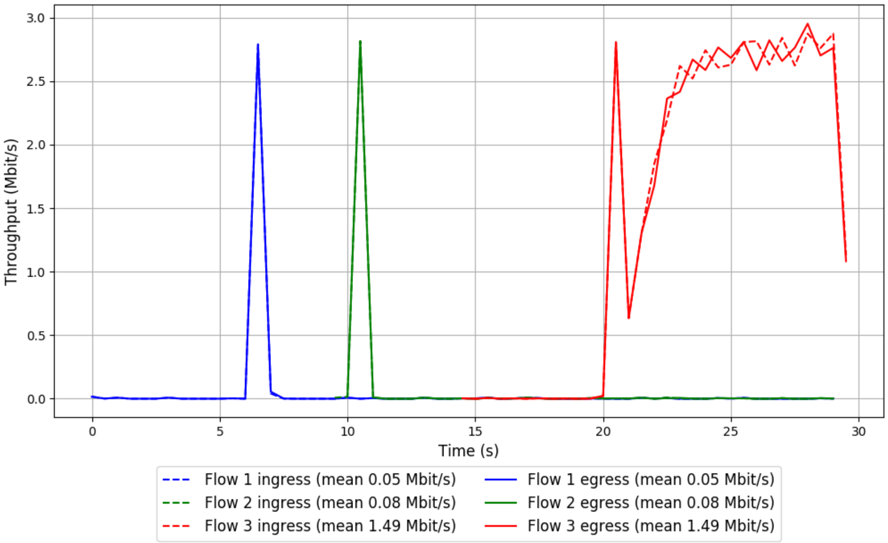
Run 5: Report of WebRTC media — Data Link

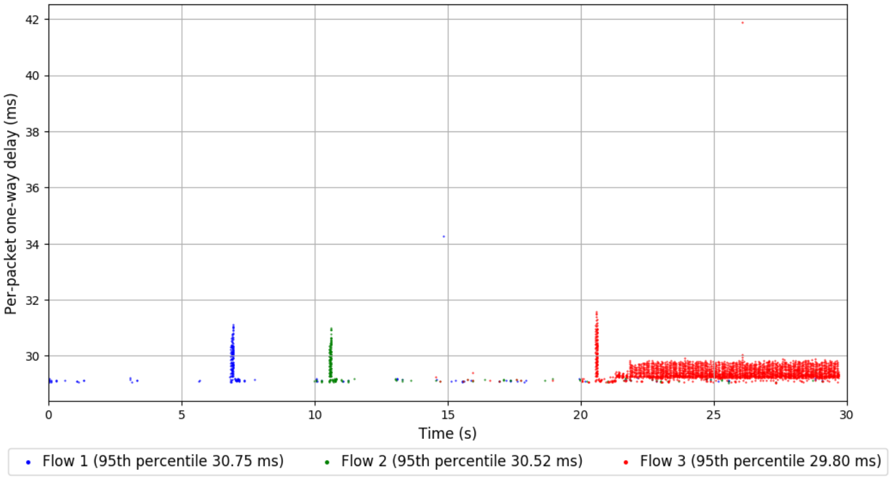




```
Run 6: Statistics of WebRTC media

Start at: 2018-01-17 00:50:39
End at: 2018-01-17 00:51:09
Local clock offset: -6.718 ms
Remote clock offset: -12.543 ms

# Below is generated by plot.py at 2018-01-17 06:16:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 30.123 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 30.752 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 30.519 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.49 Mbit/s
95th percentile per-packet one-way delay: 29.800 ms
Loss rate: 0.48%
```

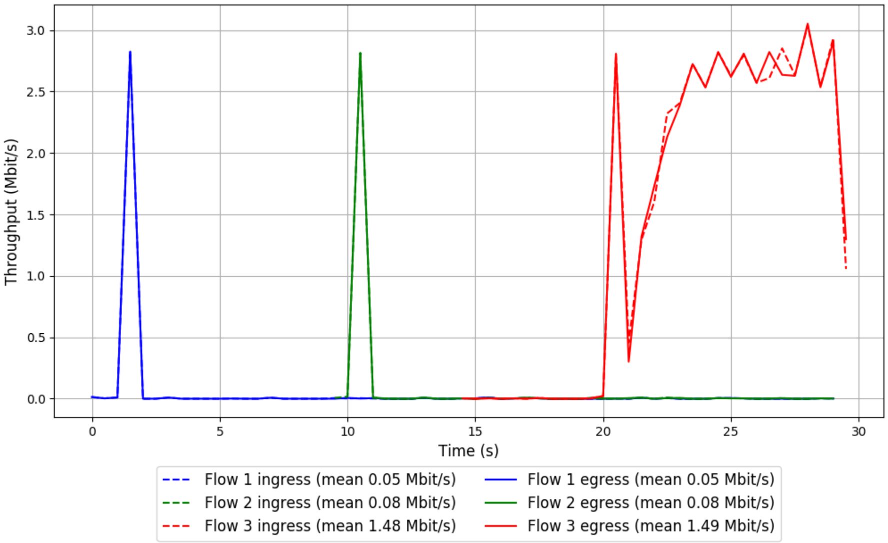
Run 6: Report of WebRTC media — Data Link

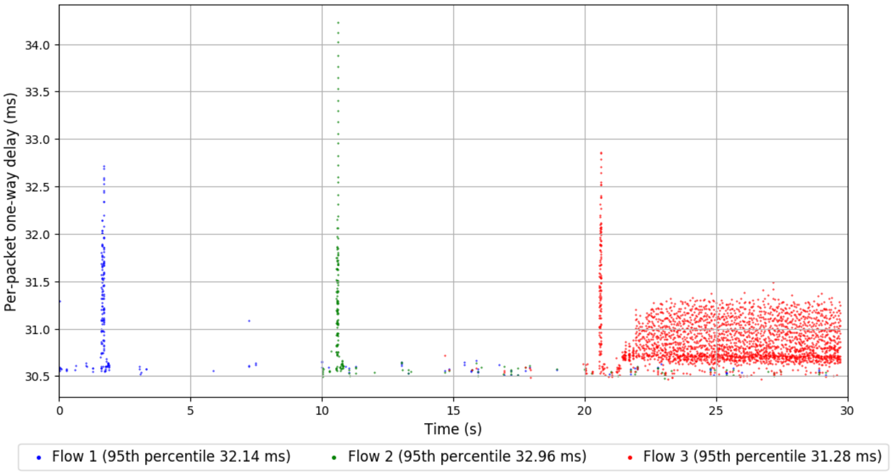




```
Run 7: Statistics of WebRTC media

Start at: 2018-01-17 01:11:51
End at: 2018-01-17 01:12:21
Local clock offset: -3.572 ms
Remote clock offset: -13.681 ms

# Below is generated by plot.py at 2018-01-17 06:16:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.85 Mbit/s
95th percentile per-packet one-way delay: 31.591 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 32.140 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 32.958 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.49 Mbit/s
95th percentile per-packet one-way delay: 31.280 ms
Loss rate: 0.00%
```

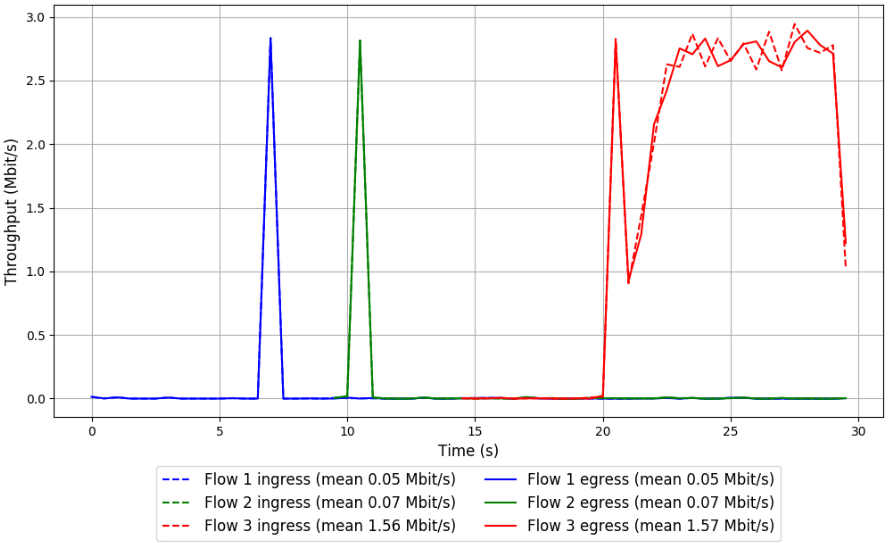
Run 7: Report of WebRTC media — Data Link

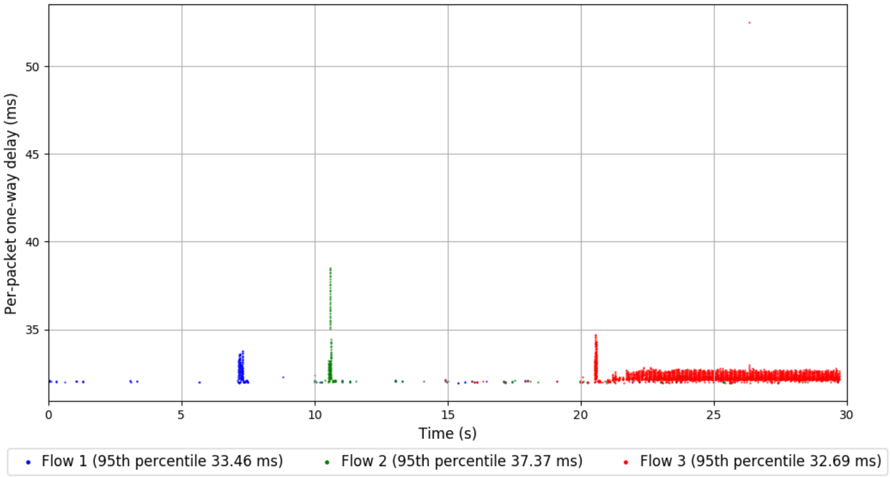




```
Run 8: Statistics of WebRTC media

Start at: 2018-01-17 01:33:04
End at: 2018-01-17 01:33:35
Local clock offset: -2.679 ms
Remote clock offset: -16.072 ms

# Below is generated by plot.py at 2018-01-17 06:16:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.88 Mbit/s
95th percentile per-packet one-way delay: 33.075 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 33.461 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 37.373 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.57 Mbit/s
95th percentile per-packet one-way delay: 32.688 ms
Loss rate: 0.04%
```

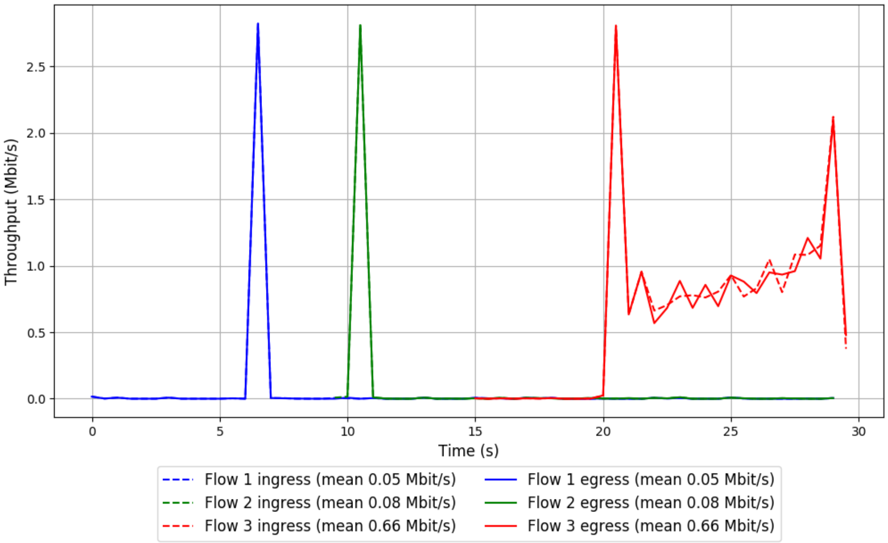
Run 8: Report of WebRTC media — Data Link

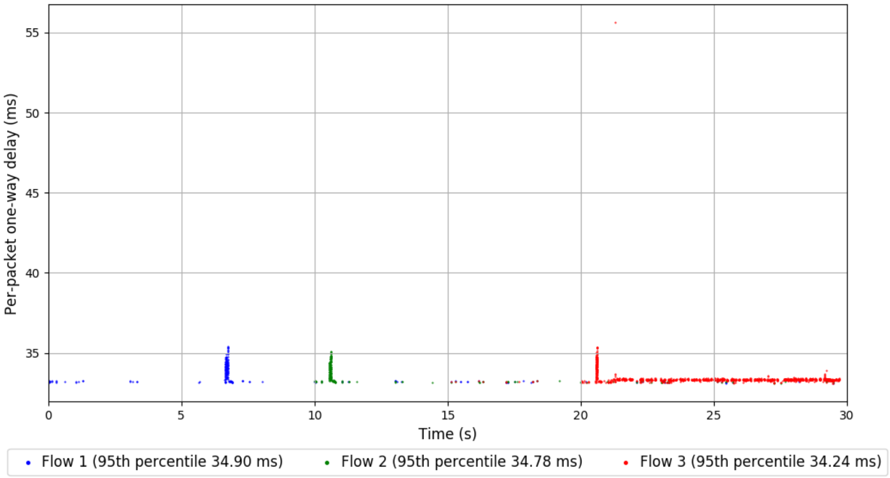




```
Run 9: Statistics of WebRTC media

Start at: 2018-01-17 01:54:17
End at: 2018-01-17 01:54:48
Local clock offset: -1.487 ms
Remote clock offset: -17.791 ms

# Below is generated by plot.py at 2018-01-17 06:16:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 34.606 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 34.902 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 34.785 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 34.238 ms
Loss rate: 0.10%
```

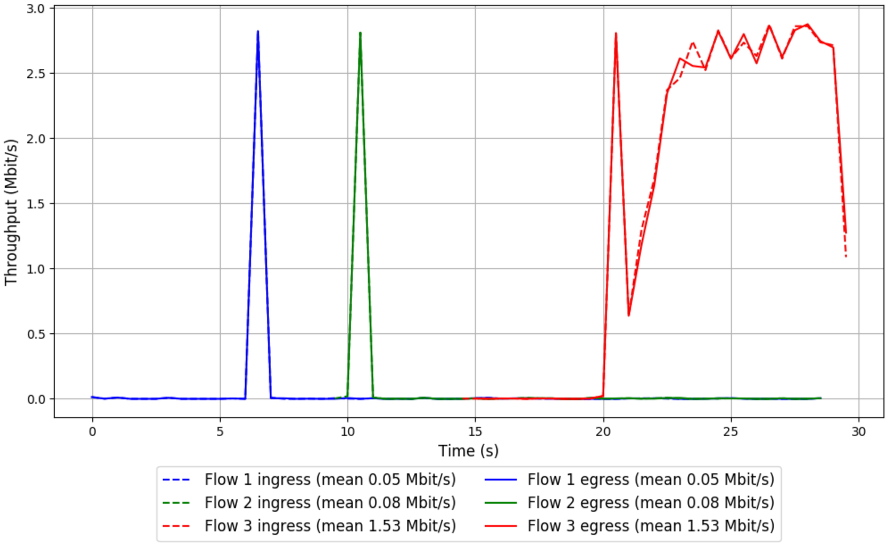
Run 9: Report of WebRTC media — Data Link

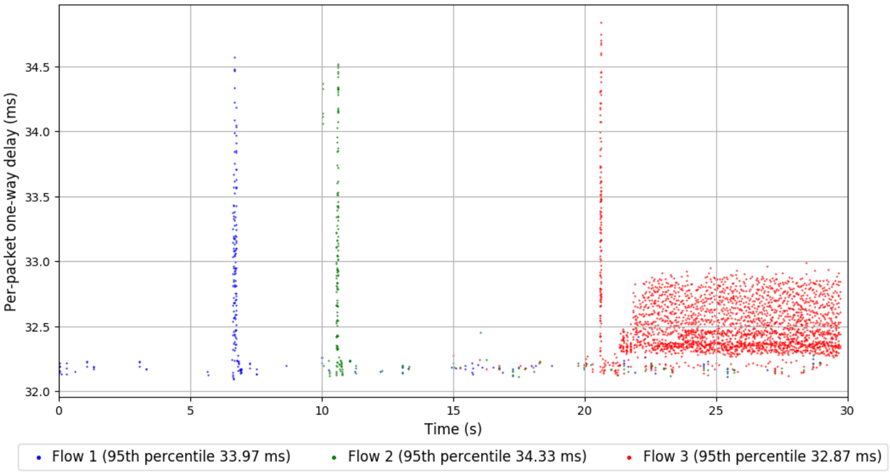




```
Run 10: Statistics of WebRTC media

Start at: 2018-01-17 02:15:41
End at: 2018-01-17 02:16:11
Local clock offset: 0.019 ms
Remote clock offset: -15.812 ms

# Below is generated by plot.py at 2018-01-17 06:16:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 33.278 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 33.973 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 34.329 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 32.868 ms
Loss rate: 0.09%
```

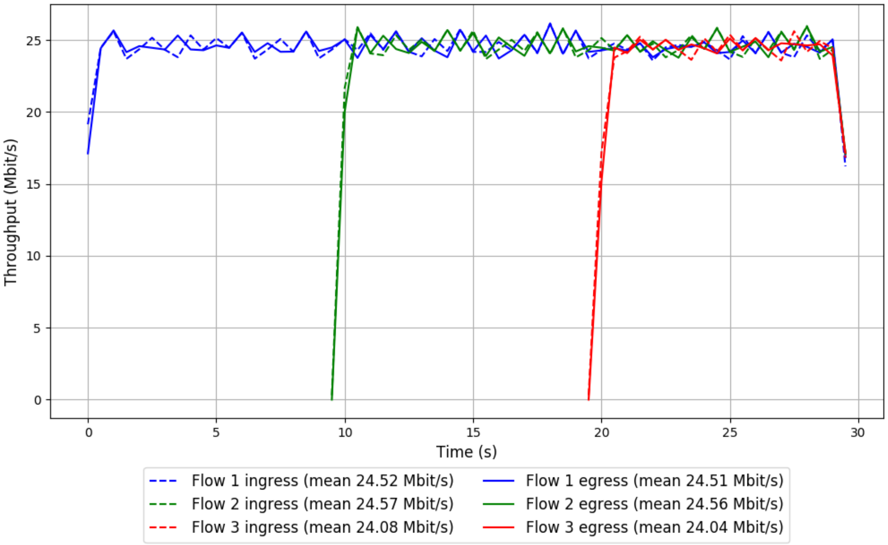
Run 10: Report of WebRTC media — Data Link

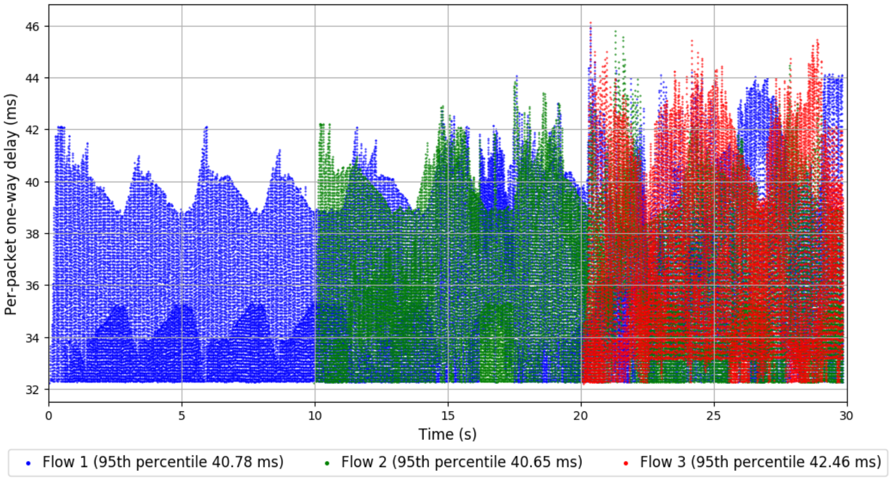




```
Run 1: Statistics of Sprout

Start at: 2018-01-16 23:01:03
End at: 2018-01-16 23:01:33
Local clock offset: -4.007 ms
Remote clock offset: -8.496 ms

# Below is generated by plot.py at 2018-01-17 06:16:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.83 Mbit/s
95th percentile per-packet one-way delay: 41.169 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 24.51 Mbit/s
95th percentile per-packet one-way delay: 40.783 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 24.56 Mbit/s
95th percentile per-packet one-way delay: 40.651 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 24.04 Mbit/s
95th percentile per-packet one-way delay: 42.456 ms
Loss rate: 0.34%
```

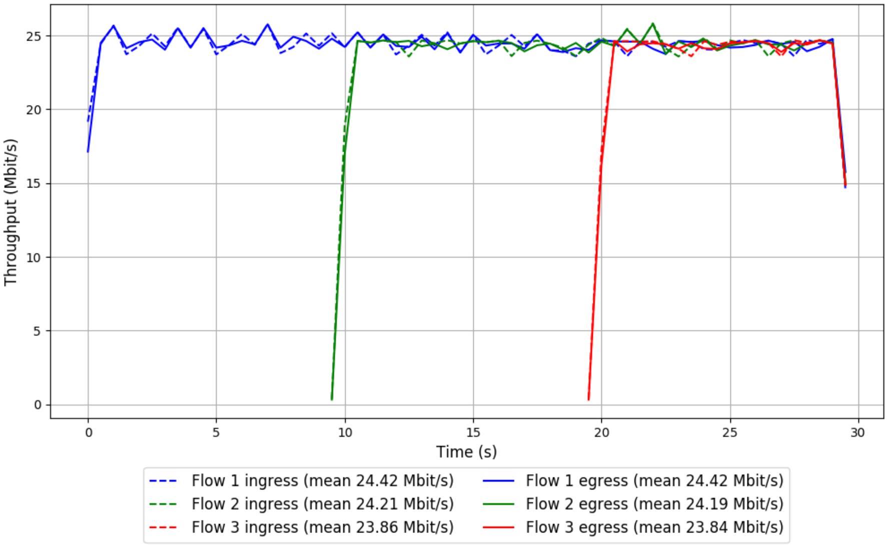
Run 1: Report of Sprout — Data Link

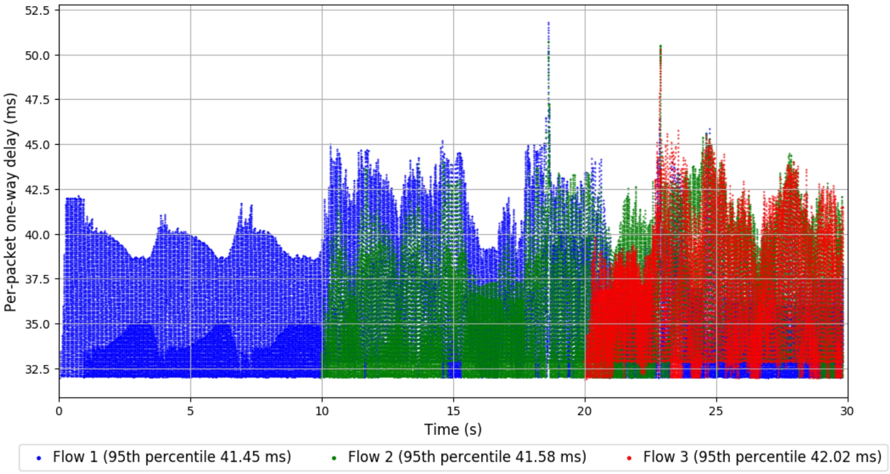




```
Run 2: Statistics of Sprout

Start at: 2018-01-16 23:22:27
End at: 2018-01-16 23:22:57
Local clock offset: -4.224 ms
Remote clock offset: -8.56 ms

# Below is generated by plot.py at 2018-01-17 06:16:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.46 Mbit/s
95th percentile per-packet one-way delay: 41.614 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 24.42 Mbit/s
95th percentile per-packet one-way delay: 41.448 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 24.19 Mbit/s
95th percentile per-packet one-way delay: 41.584 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 23.84 Mbit/s
95th percentile per-packet one-way delay: 42.023 ms
Loss rate: 0.41%
```

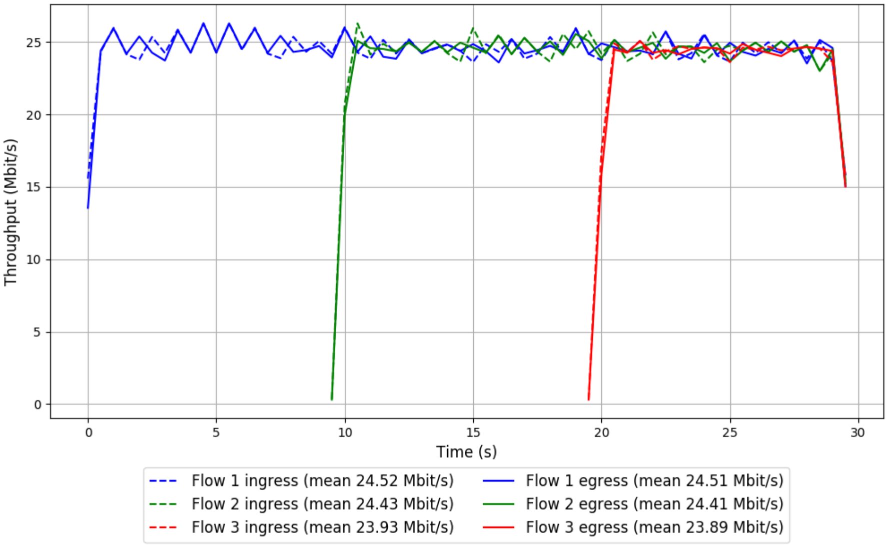
Run 2: Report of Sprout — Data Link

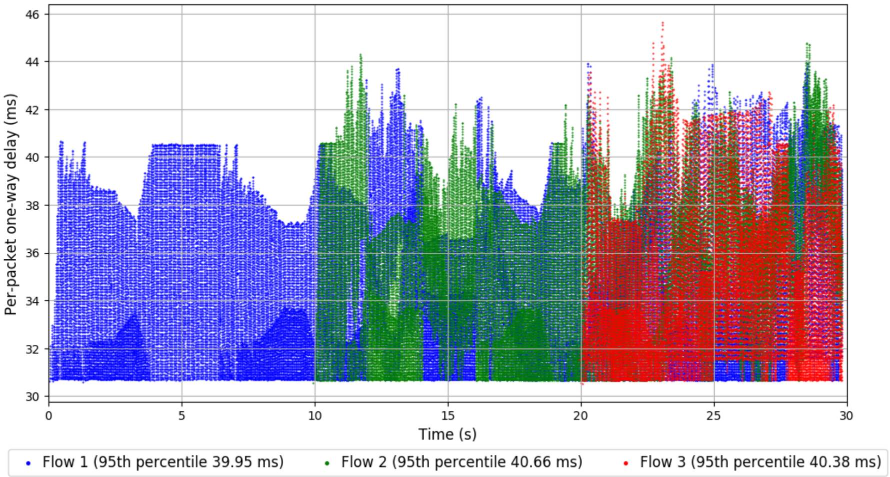




```
Run 3: Statistics of Sprout

Start at: 2018-01-16 23:43:40
End at: 2018-01-16 23:44:10
Local clock offset: -3.87 ms
Remote clock offset: -8.018 ms

# Below is generated by plot.py at 2018-01-17 06:16:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.70 Mbit/s
95th percentile per-packet one-way delay: 40.283 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 24.51 Mbit/s
95th percentile per-packet one-way delay: 39.952 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 24.41 Mbit/s
95th percentile per-packet one-way delay: 40.657 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 23.89 Mbit/s
95th percentile per-packet one-way delay: 40.381 ms
Loss rate: 0.40%
```

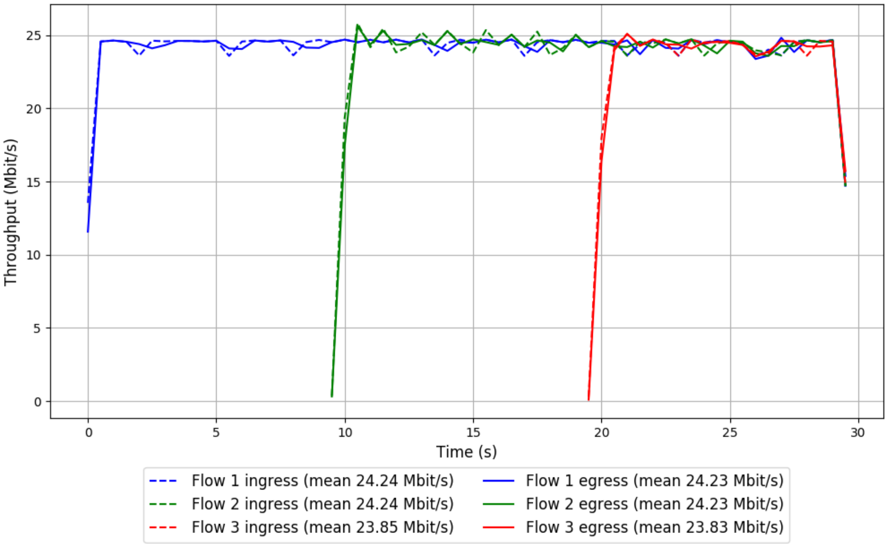
Run 3: Report of Sprout — Data Link

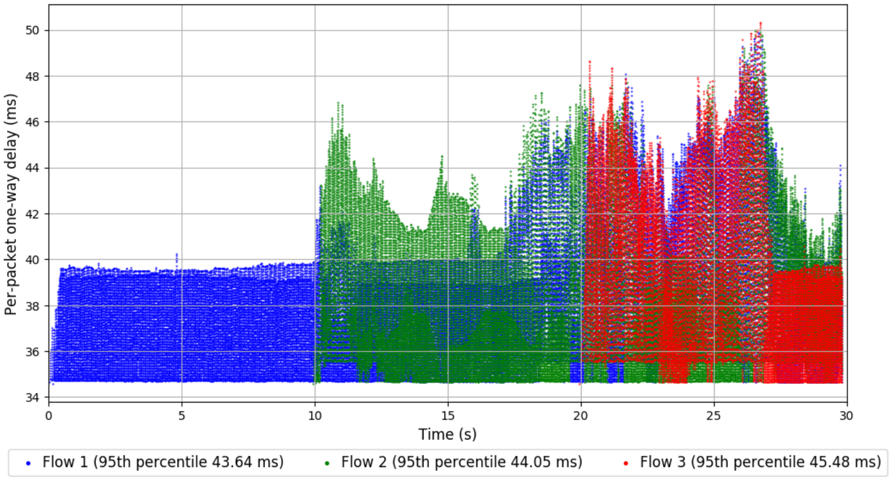




```
Run 4: Statistics of Sprout

Start at: 2018-01-17 00:04:43
End at: 2018-01-17 00:05:13
Local clock offset: -0.849 ms
Remote clock offset: -8.835 ms

# Below is generated by plot.py at 2018-01-17 06:16:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.29 Mbit/s
95th percentile per-packet one-way delay: 44.233 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 24.23 Mbit/s
95th percentile per-packet one-way delay: 43.642 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 24.23 Mbit/s
95th percentile per-packet one-way delay: 44.049 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 23.83 Mbit/s
95th percentile per-packet one-way delay: 45.475 ms
Loss rate: 0.22%
```

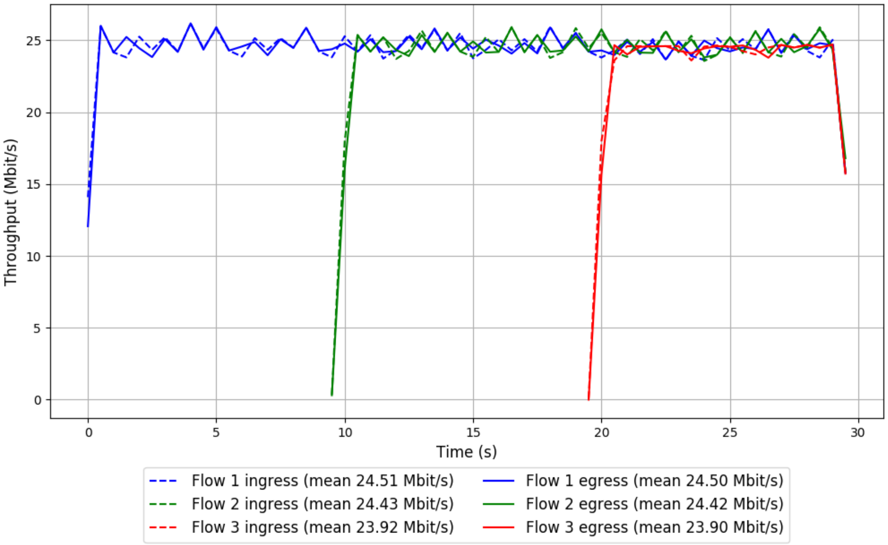
Run 4: Report of Sprout — Data Link

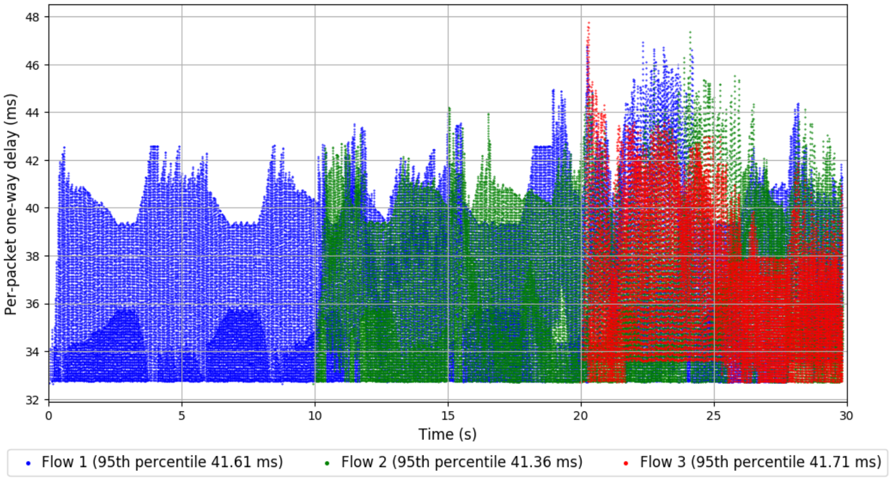




```
Run 5: Statistics of Sprout

Start at: 2018-01-17 00:26:05
End at: 2018-01-17 00:26:35
Local clock offset: -2.915 ms
Remote clock offset: -10.611 ms

# Below is generated by plot.py at 2018-01-17 06:16:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.70 Mbit/s
95th percentile per-packet one-way delay: 41.548 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 24.50 Mbit/s
95th percentile per-packet one-way delay: 41.607 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 24.42 Mbit/s
95th percentile per-packet one-way delay: 41.363 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 23.90 Mbit/s
95th percentile per-packet one-way delay: 41.709 ms
Loss rate: 0.42%
```

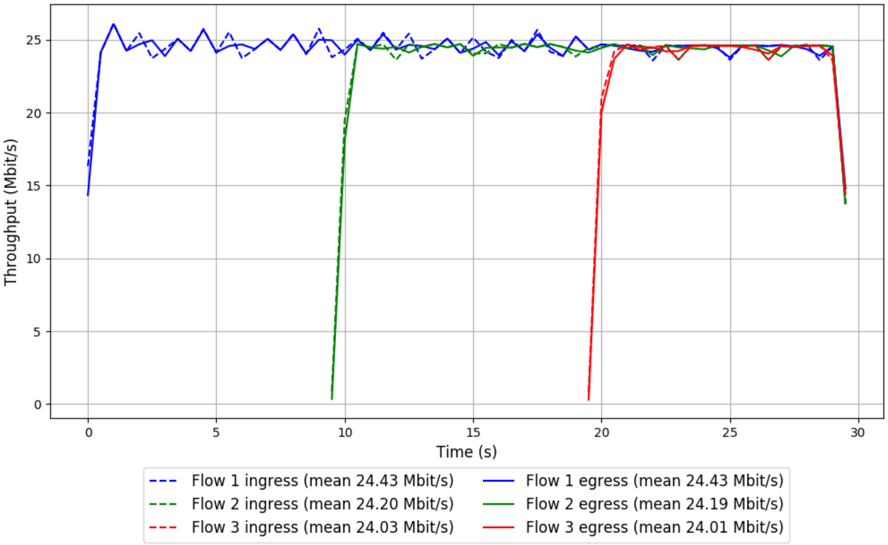
Run 5: Report of Sprout — Data Link

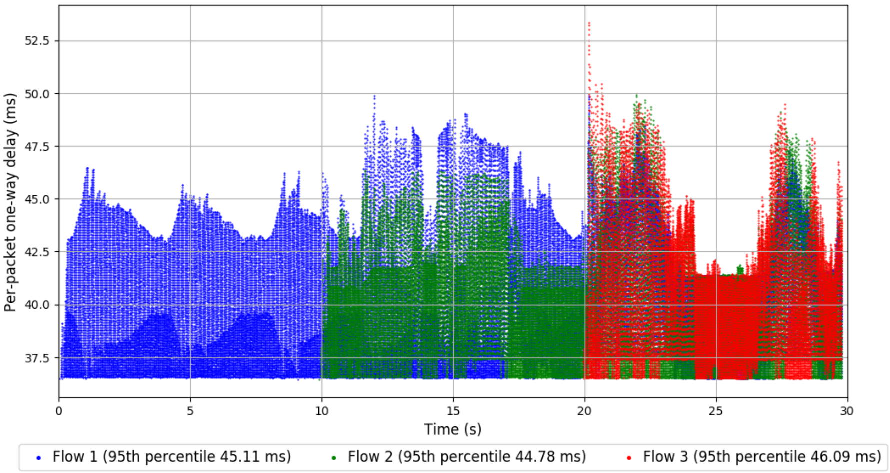




```
Run 6: Statistics of Sprout

Start at: 2018-01-17 00:47:13
End at: 2018-01-17 00:47:43
Local clock offset: -1.542 ms
Remote clock offset: -14.423 ms

# Below is generated by plot.py at 2018-01-17 06:16:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.54 Mbit/s
95th percentile per-packet one-way delay: 45.161 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 24.43 Mbit/s
95th percentile per-packet one-way delay: 45.108 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 24.19 Mbit/s
95th percentile per-packet one-way delay: 44.784 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 24.01 Mbit/s
95th percentile per-packet one-way delay: 46.089 ms
Loss rate: 0.41%
```

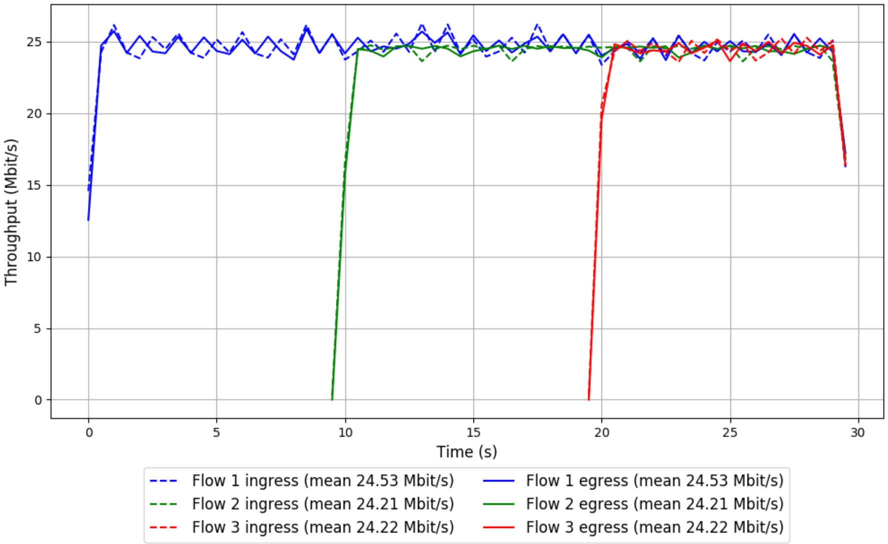
Run 6: Report of Sprout — Data Link

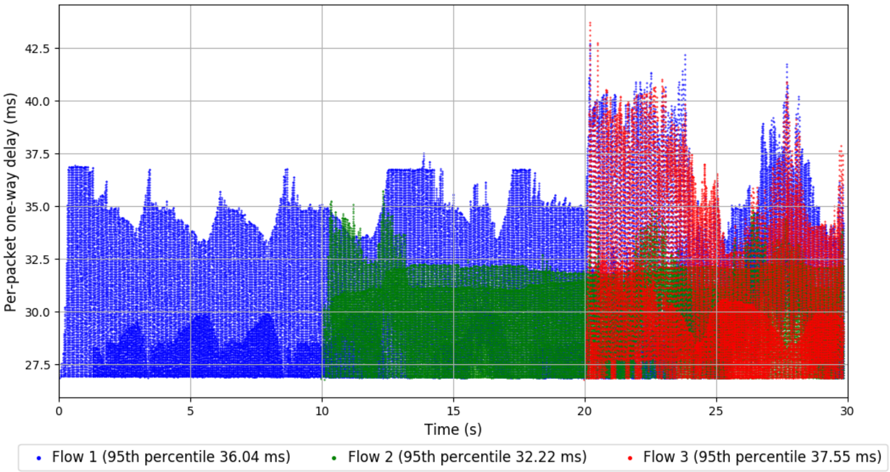




```
Run 7: Statistics of Sprout

Start at: 2018-01-17 01:08:21
End at: 2018-01-17 01:08:51
Local clock offset: -6.625 ms
Remote clock offset: -12.534 ms

# Below is generated by plot.py at 2018-01-17 06:17:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.67 Mbit/s
95th percentile per-packet one-way delay: 35.637 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 24.53 Mbit/s
95th percentile per-packet one-way delay: 36.039 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 24.21 Mbit/s
95th percentile per-packet one-way delay: 32.221 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 24.22 Mbit/s
95th percentile per-packet one-way delay: 37.545 ms
Loss rate: 0.41%
```

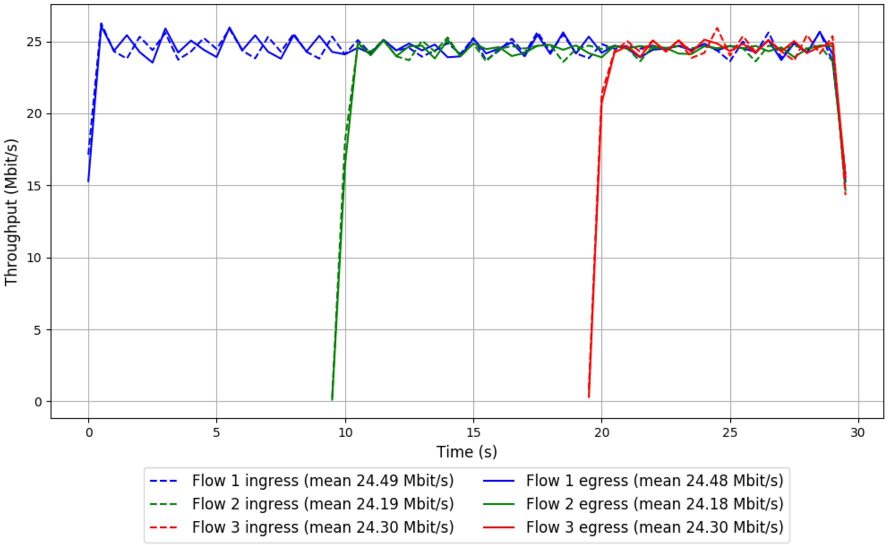
Run 7: Report of Sprout — Data Link

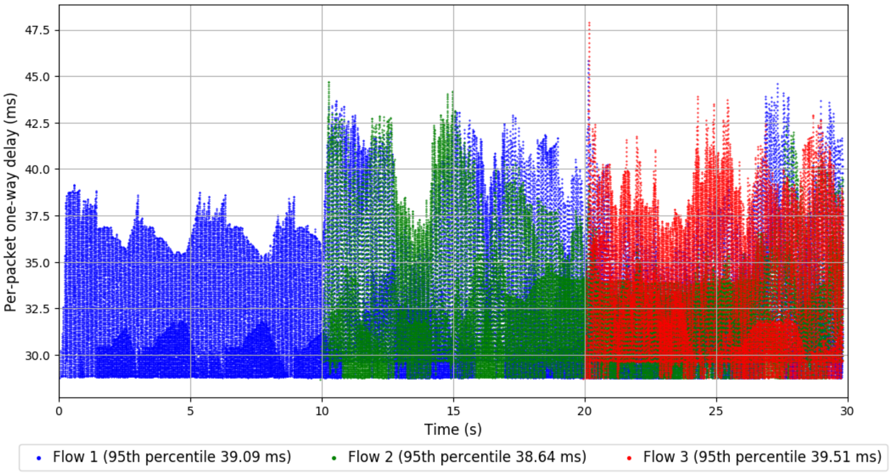




```
Run 8: Statistics of Sprout

Start at: 2018-01-17 01:29:35
End at: 2018-01-17 01:30:05
Local clock offset: -4.274 ms
Remote clock offset: -14.0 ms

# Below is generated by plot.py at 2018-01-17 06:17:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.66 Mbit/s
95th percentile per-packet one-way delay: 39.096 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 24.48 Mbit/s
95th percentile per-packet one-way delay: 39.091 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 24.18 Mbit/s
95th percentile per-packet one-way delay: 38.641 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 24.30 Mbit/s
95th percentile per-packet one-way delay: 39.508 ms
Loss rate: 0.13%
```

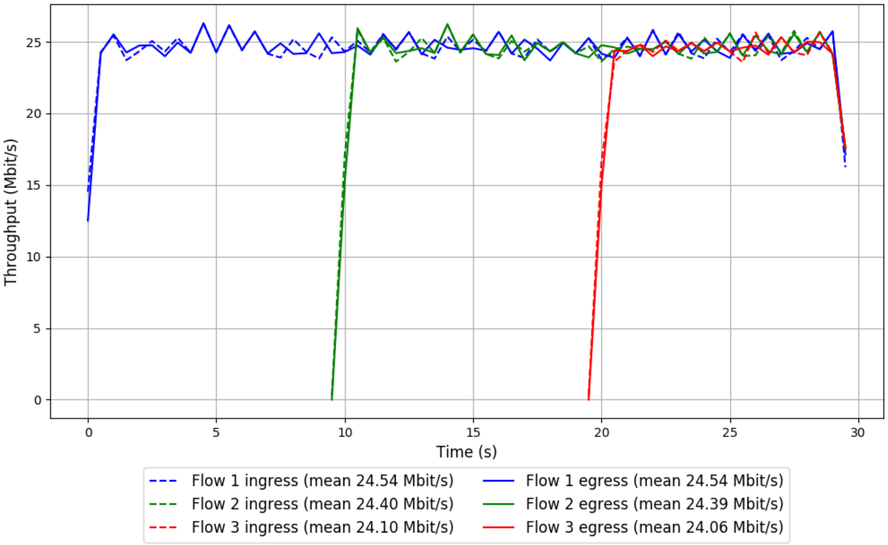
Run 8: Report of Sprout — Data Link

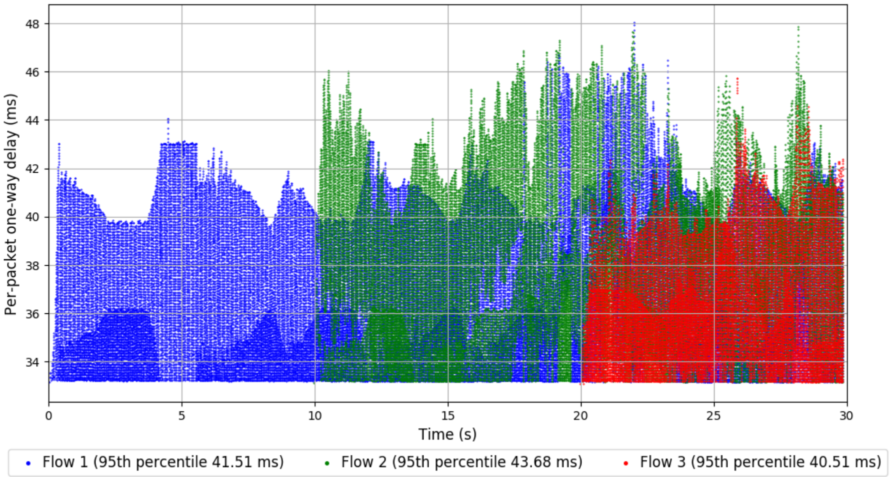




```
Run 9: Statistics of Sprout

Start at: 2018-01-17 01:50:47
End at: 2018-01-17 01:51:17
Local clock offset: -1.985 ms
Remote clock offset: -17.755 ms

# Below is generated by plot.py at 2018-01-17 06:17:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.75 Mbit/s
95th percentile per-packet one-way delay: 42.408 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 24.54 Mbit/s
95th percentile per-packet one-way delay: 41.511 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 24.39 Mbit/s
95th percentile per-packet one-way delay: 43.678 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 24.06 Mbit/s
95th percentile per-packet one-way delay: 40.509 ms
Loss rate: 0.32%
```

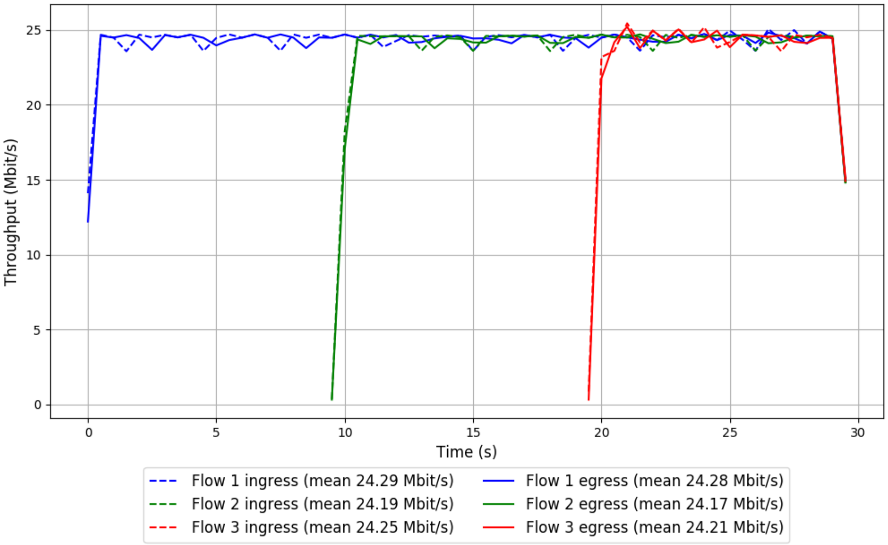
Run 9: Report of Sprout — Data Link

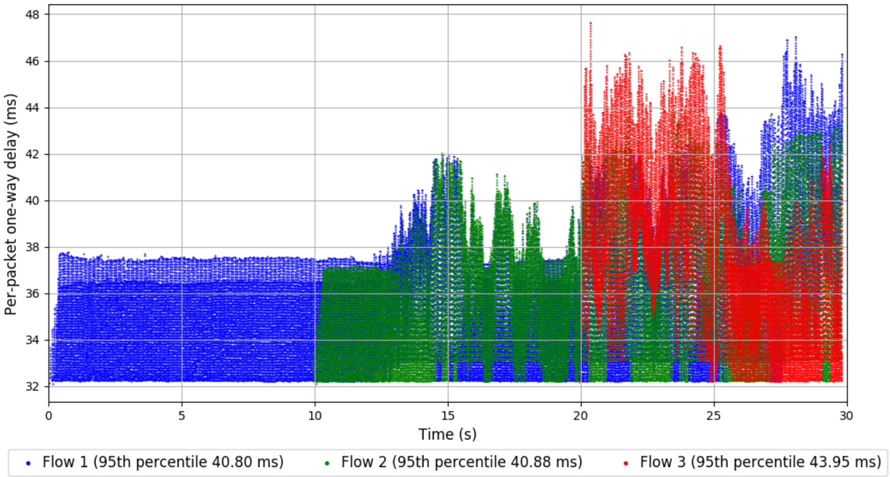




```
Run 10: Statistics of Sprout

Start at: 2018-01-17 02:12:13
End at: 2018-01-17 02:12:43
Local clock offset: -0.543 ms
Remote clock offset: -16.287 ms

# Below is generated by plot.py at 2018-01-17 06:17:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.43 Mbit/s
95th percentile per-packet one-way delay: 41.693 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 24.28 Mbit/s
95th percentile per-packet one-way delay: 40.795 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 24.17 Mbit/s
95th percentile per-packet one-way delay: 40.884 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 24.21 Mbit/s
95th percentile per-packet one-way delay: 43.951 ms
Loss rate: 0.35%
```

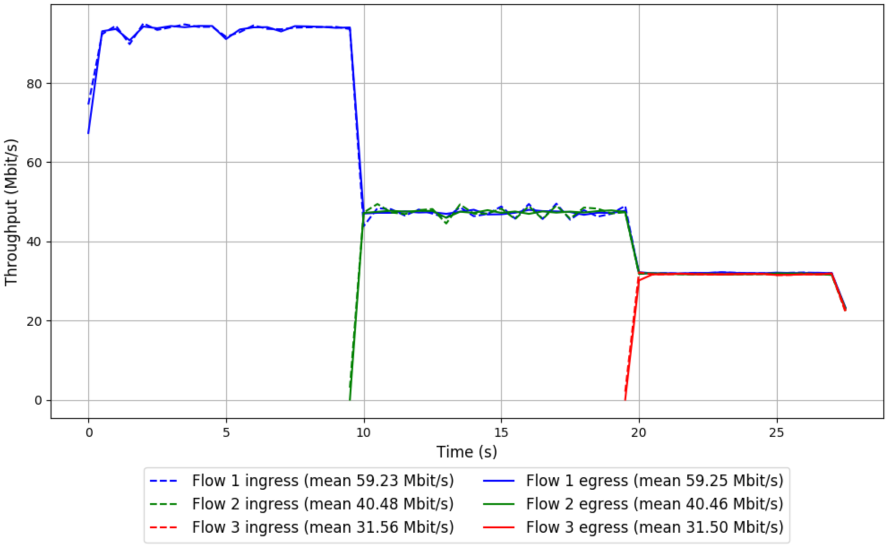
Run 10: Report of Sprout — Data Link

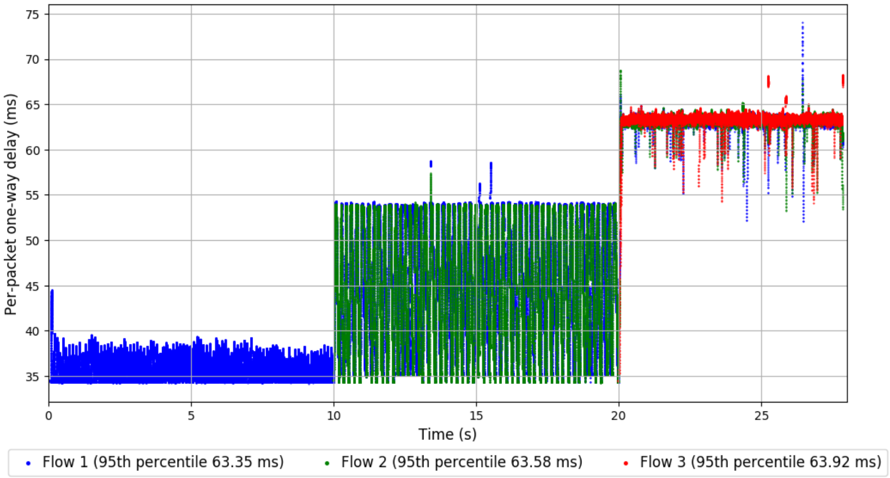




```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-16 23:13:56
End at: 2018-01-16 23:14:26
Local clock offset: -3.758 ms
Remote clock offset: -10.287 ms

# Below is generated by plot.py at 2018-01-17 06:18:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.21 Mbit/s
95th percentile per-packet one-way delay: 63.582 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 59.25 Mbit/s
95th percentile per-packet one-way delay: 63.351 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 40.46 Mbit/s
95th percentile per-packet one-way delay: 63.584 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 31.50 Mbit/s
95th percentile per-packet one-way delay: 63.921 ms
Loss rate: 0.71%
```

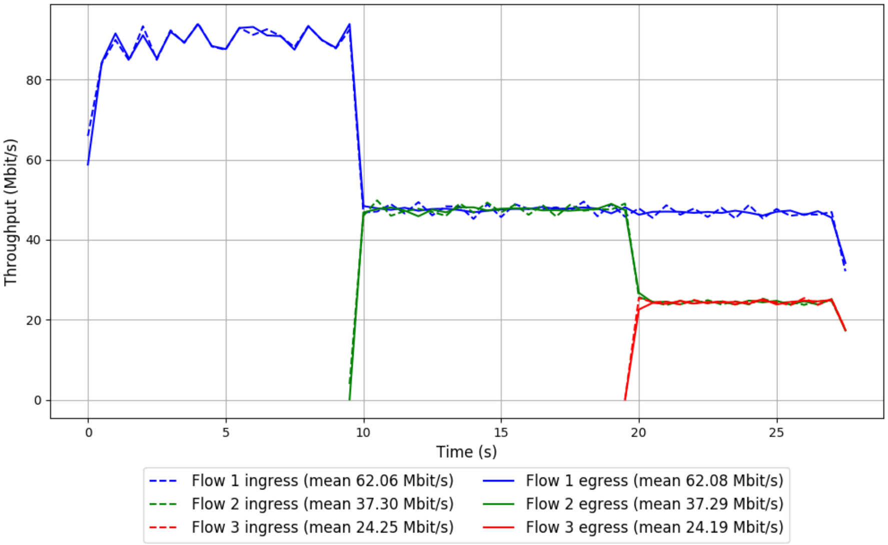
Run 1: Report of TaoVA-100x — Data Link

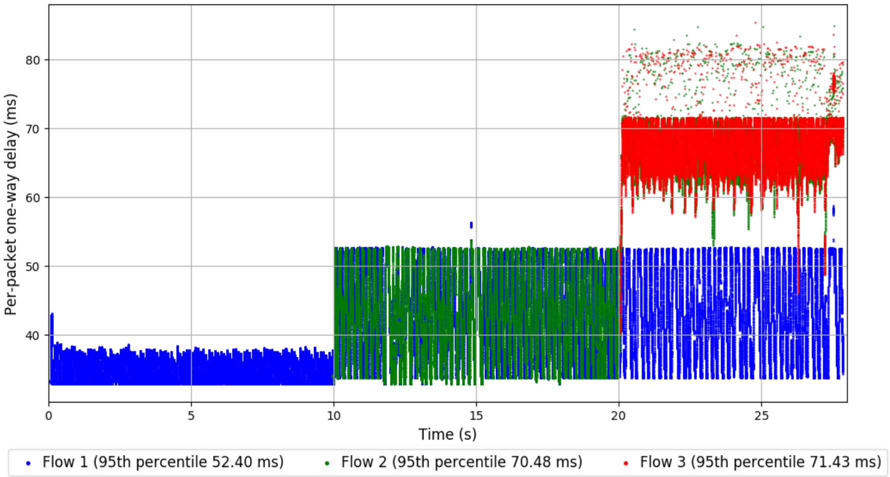




```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-16 23:35:15
End at: 2018-01-16 23:35:45
Local clock offset: -2.328 ms
Remote clock offset: -8.334 ms

# Below is generated by plot.py at 2018-01-17 06:18:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.93 Mbit/s
95th percentile per-packet one-way delay: 68.873 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 62.08 Mbit/s
95th percentile per-packet one-way delay: 52.398 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 37.29 Mbit/s
95th percentile per-packet one-way delay: 70.483 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 24.19 Mbit/s
95th percentile per-packet one-way delay: 71.428 ms
Loss rate: 0.81%
```

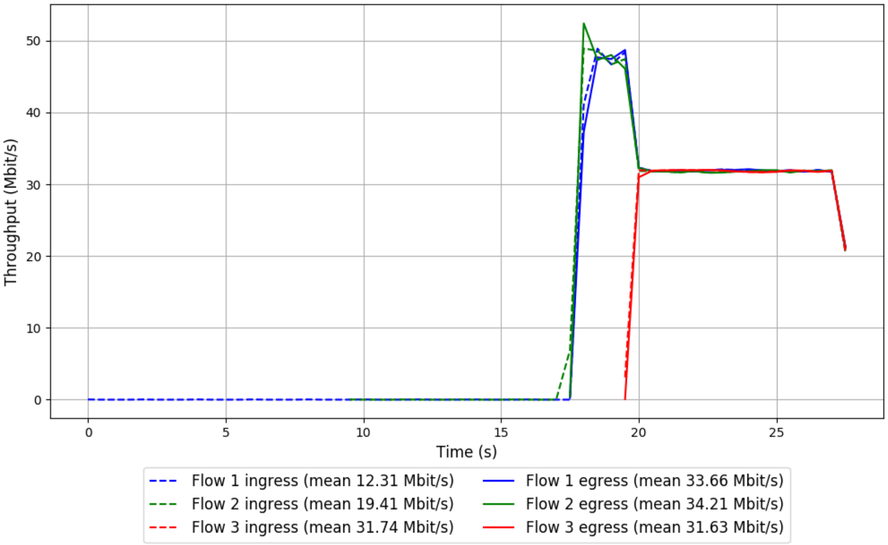
Run 2: Report of TaoVA-100x — Data Link

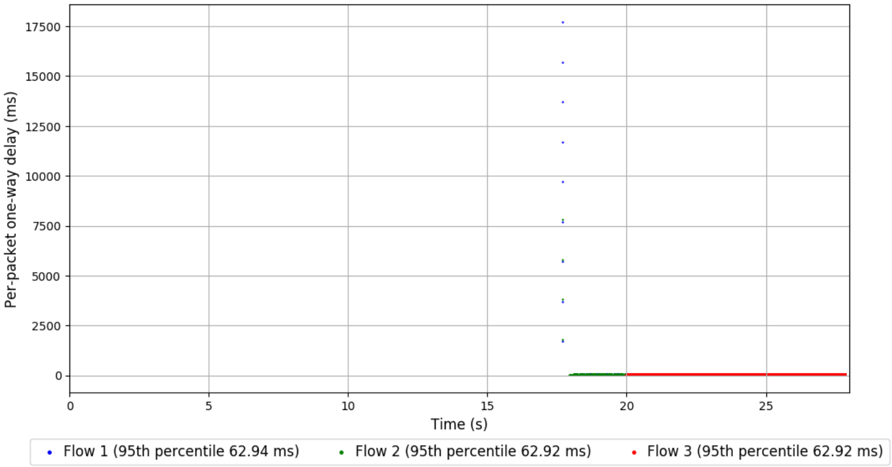




```
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-16 23:56:26
End at: 2018-01-16 23:56:56
Local clock offset: -1.917 ms
Remote clock offset: -8.363 ms
```

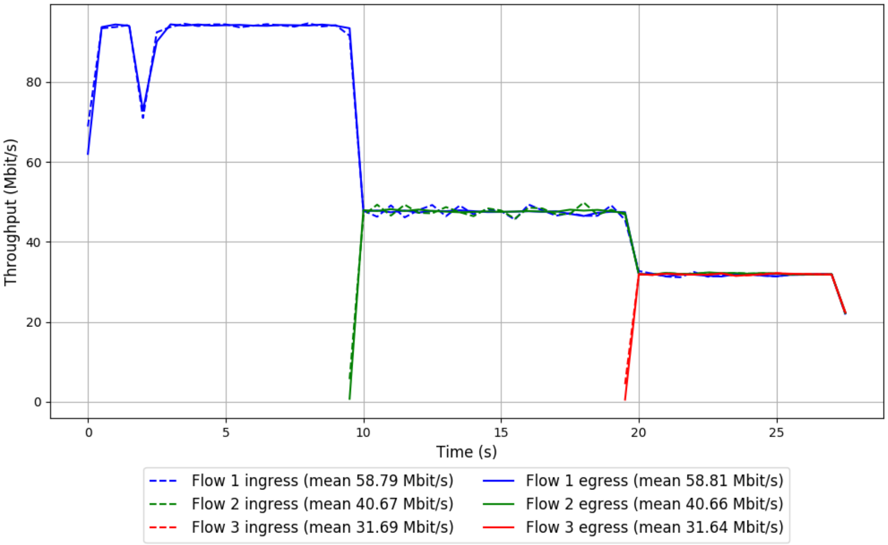
Run 3: Report of TaoVA-100x — Data Link

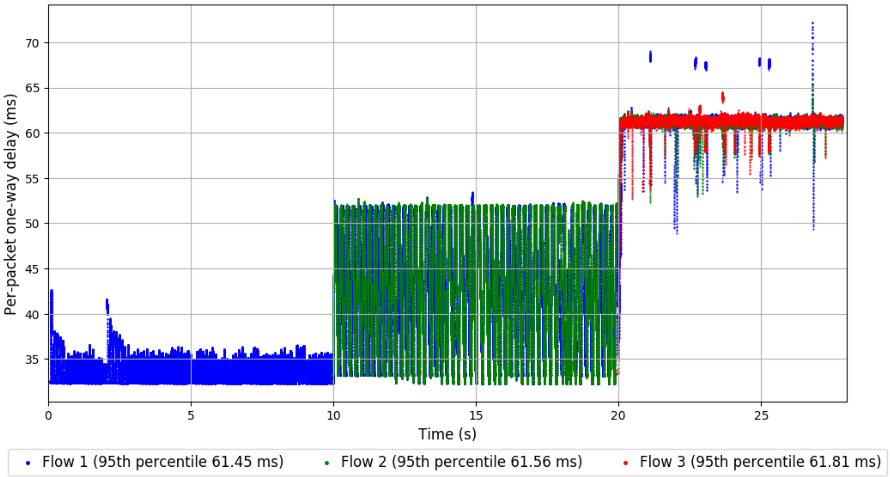




```
Run 4: Statistics of TaoVA-100x

Start at: 2018-01-17 00:17:37
End at: 2018-01-17 00:18:07
Local clock offset: -2.452 ms
Remote clock offset: -9.043 ms

# Below is generated by plot.py at 2018-01-17 06:19:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.99 Mbit/s
95th percentile per-packet one-way delay: 61.574 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 58.81 Mbit/s
95th percentile per-packet one-way delay: 61.451 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 40.66 Mbit/s
95th percentile per-packet one-way delay: 61.565 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 31.64 Mbit/s
95th percentile per-packet one-way delay: 61.810 ms
Loss rate: 0.70%
```

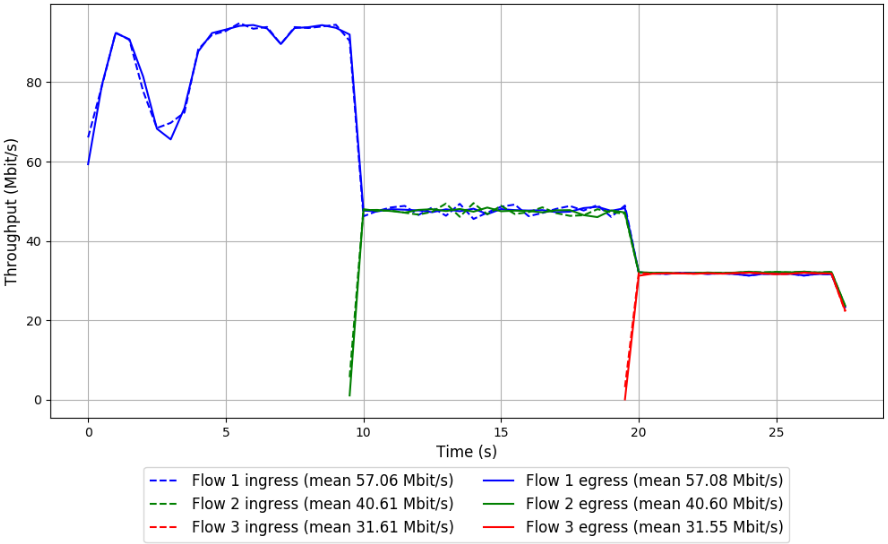
Run 4: Report of TaoVA-100x — Data Link

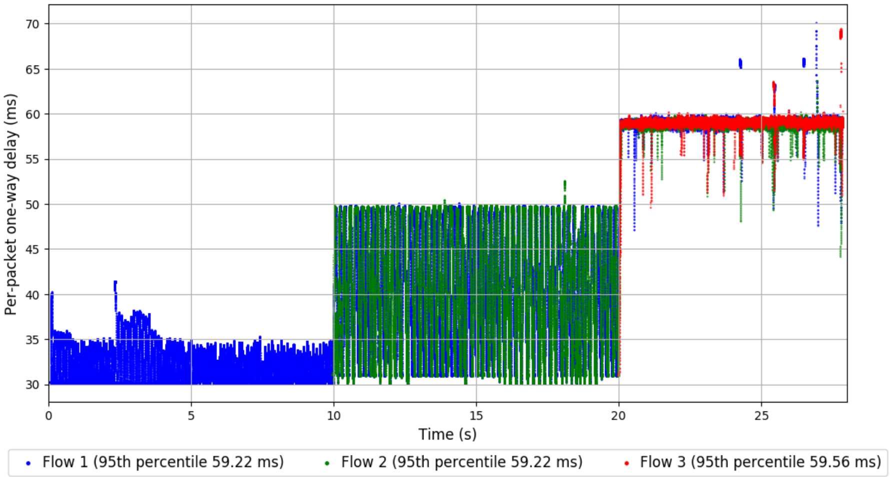




```
Run 5: Statistics of TaoVA-100x

Start at: 2018-01-17 00:38:48
End at: 2018-01-17 00:39:18
Local clock offset: -11.75 ms
Remote clock offset: -17.55 ms

# Below is generated by plot.py at 2018-01-17 06:19:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.19 Mbit/s
95th percentile per-packet one-way delay: 59.313 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 57.08 Mbit/s
95th percentile per-packet one-way delay: 59.216 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 40.60 Mbit/s
95th percentile per-packet one-way delay: 59.216 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 31.55 Mbit/s
95th percentile per-packet one-way delay: 59.558 ms
Loss rate: 0.70%
```

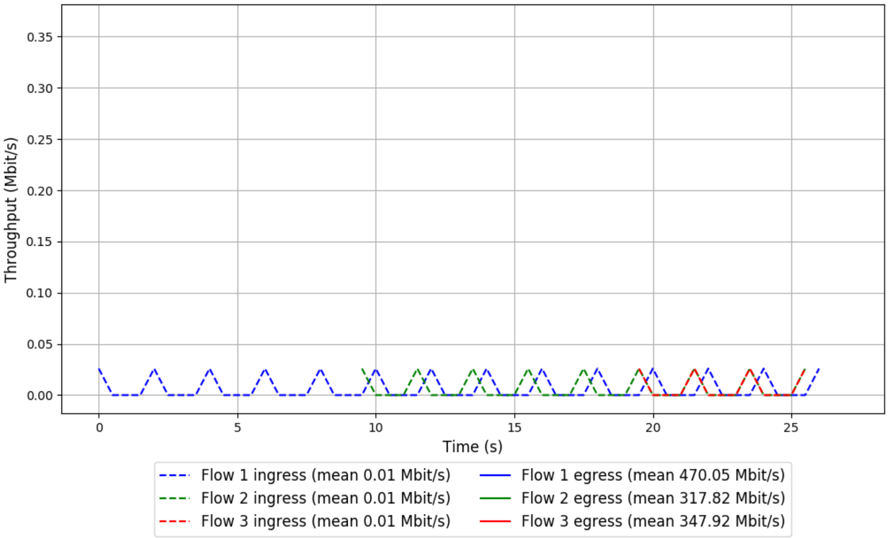
Run 5: Report of TaoVA-100x — Data Link

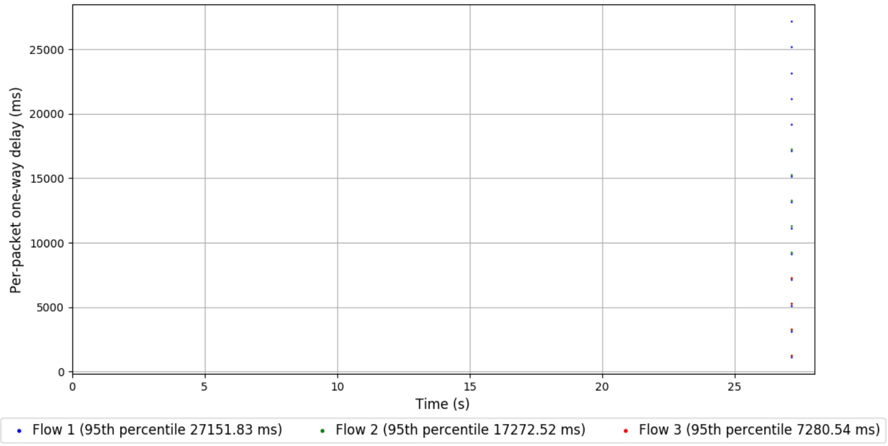




```
Run 6: Statistics of TaoVA-100x

Start at: 2018-01-17 01:00:00
End at: 2018-01-17 01:00:30
Local clock offset: -3.869 ms
Remote clock offset: -12.42 ms
```

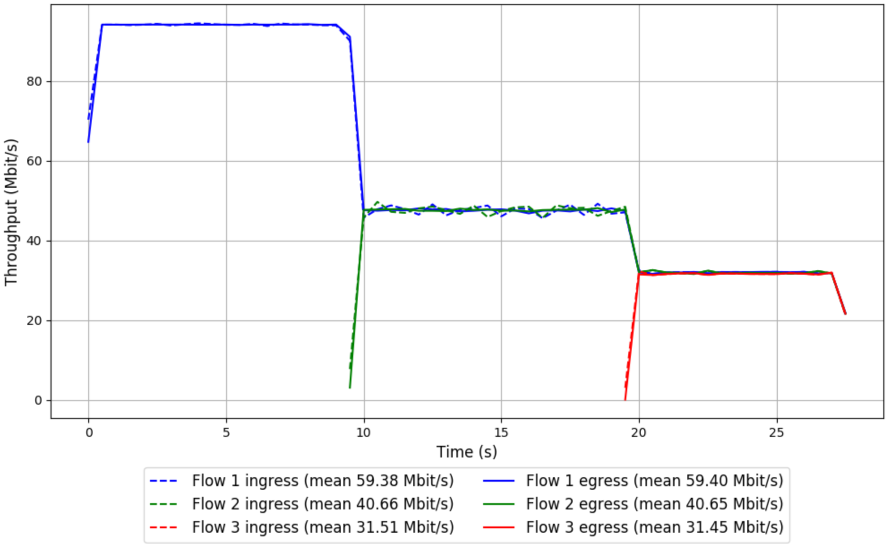
Run 6: Report of TaoVA-100x — Data Link

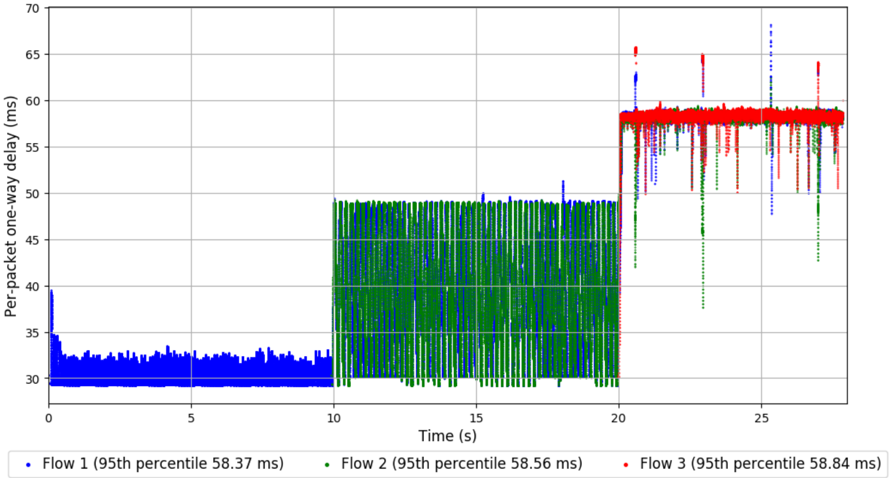




```
Run 7: Statistics of TaoVA-100x

Start at: 2018-01-17 01:21:09
End at: 2018-01-17 01:21:39
Local clock offset: -3.995 ms
Remote clock offset: -13.5 ms

# Below is generated by plot.py at 2018-01-17 06:19:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.51 Mbit/s
95th percentile per-packet one-way delay: 58.543 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 59.40 Mbit/s
95th percentile per-packet one-way delay: 58.369 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 40.65 Mbit/s
95th percentile per-packet one-way delay: 58.557 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 31.45 Mbit/s
95th percentile per-packet one-way delay: 58.841 ms
Loss rate: 0.68%
```

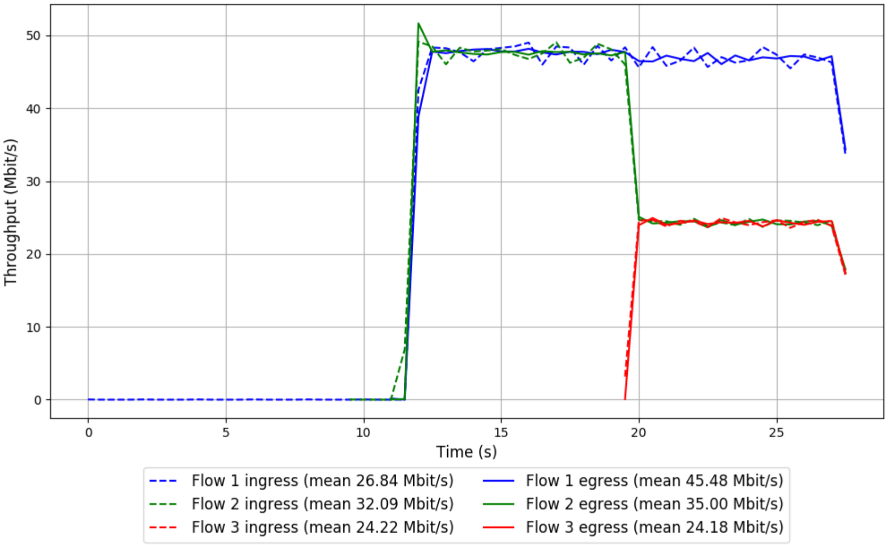
Run 7: Report of TaoVA-100x — Data Link

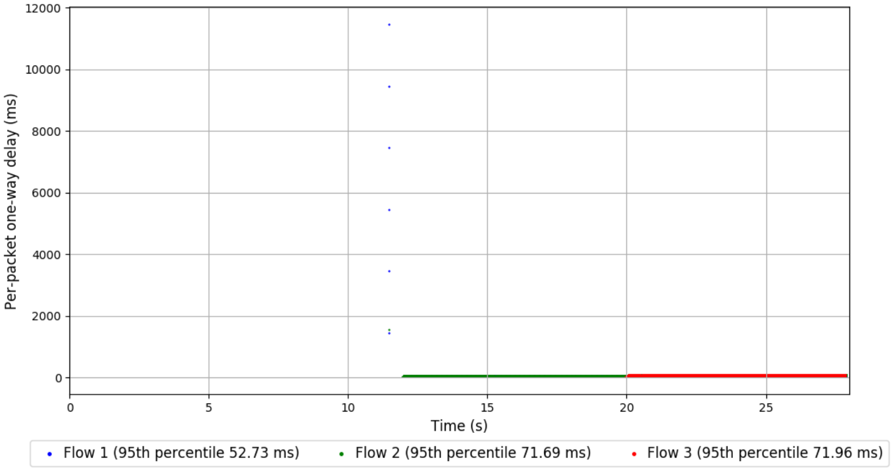




```
Run 8: Statistics of TaoVA-100x

Start at: 2018-01-17 01:42:27
End at: 2018-01-17 01:42:57
Local clock offset: -0.428 ms
Remote clock offset: -15.51 ms
```

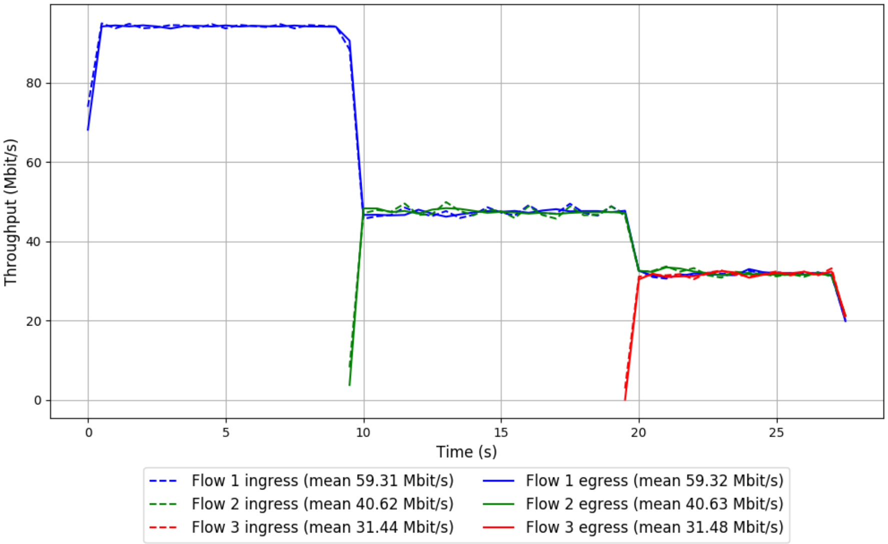
Run 8: Report of TaoVA-100x — Data Link

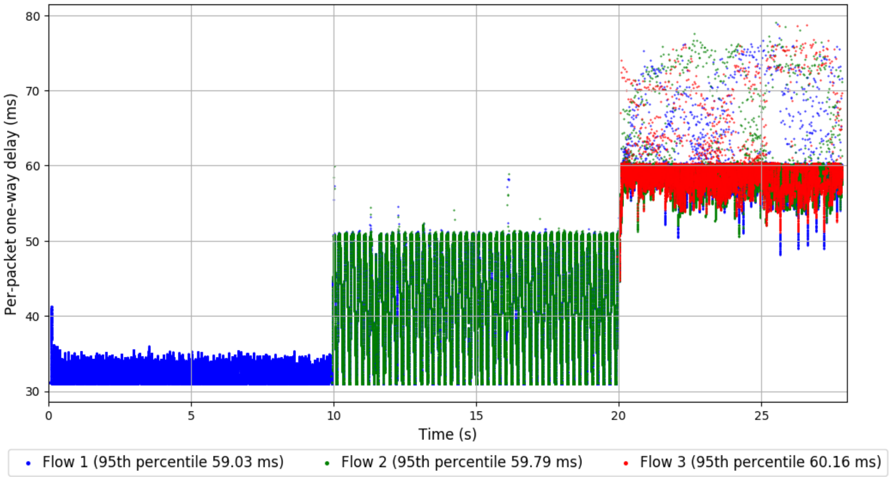




```
Run 9: Statistics of TaoVA-100x

Start at: 2018-01-17 02:03:39
End at: 2018-01-17 02:04:09
Local clock offset: -4.615 ms
Remote clock offset: -19.132 ms

# Below is generated by plot.py at 2018-01-17 06:19:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.44 Mbit/s
95th percentile per-packet one-way delay: 59.674 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 59.32 Mbit/s
95th percentile per-packet one-way delay: 59.033 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 40.63 Mbit/s
95th percentile per-packet one-way delay: 59.787 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 31.48 Mbit/s
95th percentile per-packet one-way delay: 60.163 ms
Loss rate: 0.66%
```

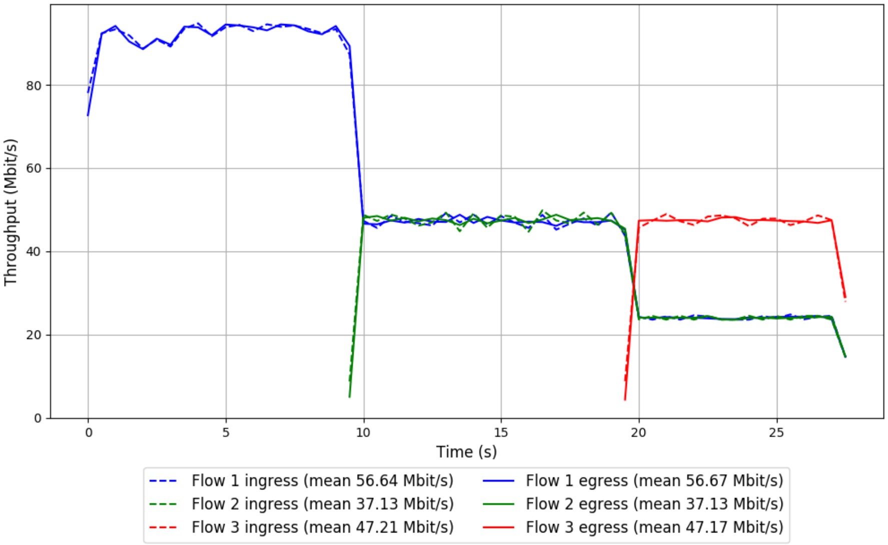
Run 9: Report of TaoVA-100x — Data Link

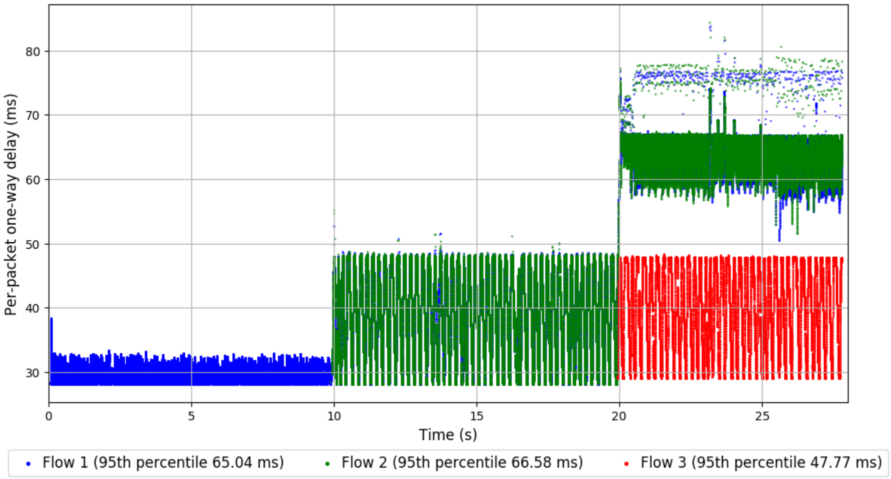




```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-17 02:25:02
End at: 2018-01-17 02:25:32
Local clock offset: -5.615 ms
Remote clock offset: -17.575 ms

# Below is generated by plot.py at 2018-01-17 06:20:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.02 Mbit/s
95th percentile per-packet one-way delay: 65.521 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 56.67 Mbit/s
95th percentile per-packet one-way delay: 65.037 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 37.13 Mbit/s
95th percentile per-packet one-way delay: 66.583 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 47.17 Mbit/s
95th percentile per-packet one-way delay: 47.767 ms
Loss rate: 0.45%
```

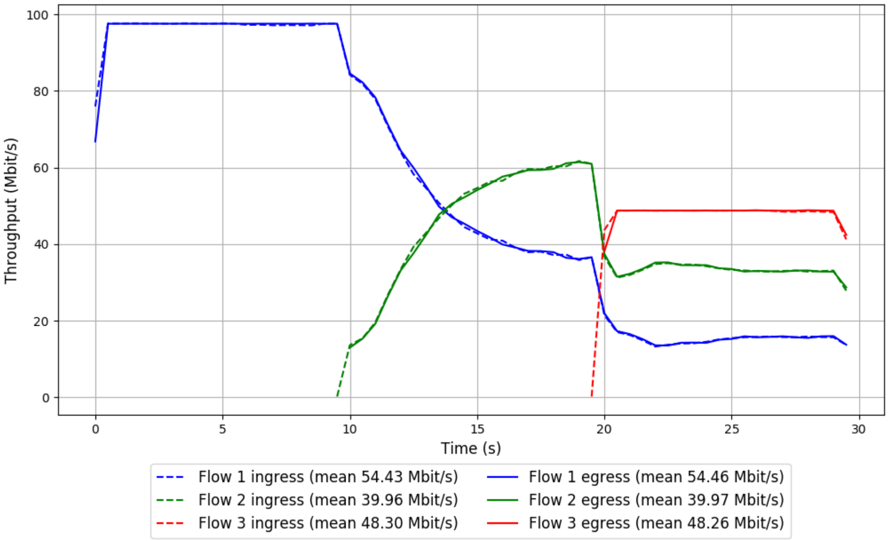
Run 10: Report of TaoVA-100x — Data Link

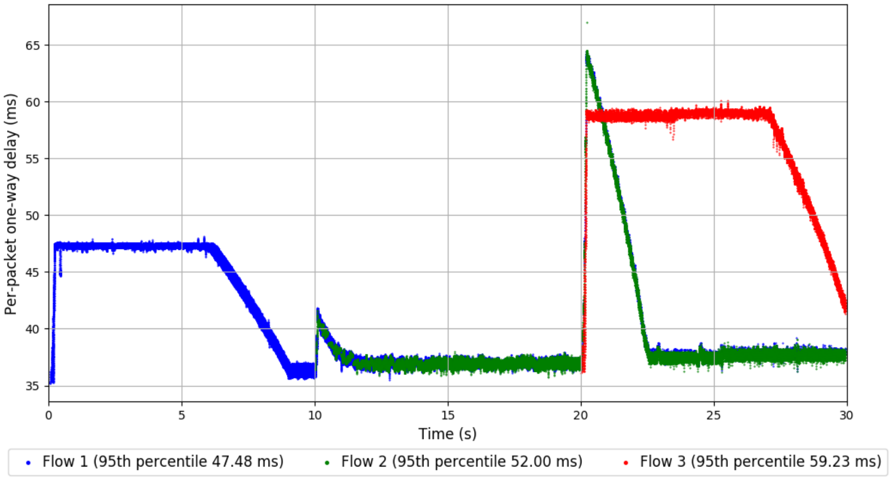




```
Run 1: Statistics of TCP Vegas

Start at: 2018-01-16 23:03:20
End at: 2018-01-16 23:03:50
Local clock offset: -1.315 ms
Remote clock offset: -8.818 ms

# Below is generated by plot.py at 2018-01-17 06:20:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 58.982 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 54.46 Mbit/s
95th percentile per-packet one-way delay: 47.475 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 39.97 Mbit/s
95th percentile per-packet one-way delay: 52.002 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 48.26 Mbit/s
95th percentile per-packet one-way delay: 59.230 ms
Loss rate: 0.33%
```

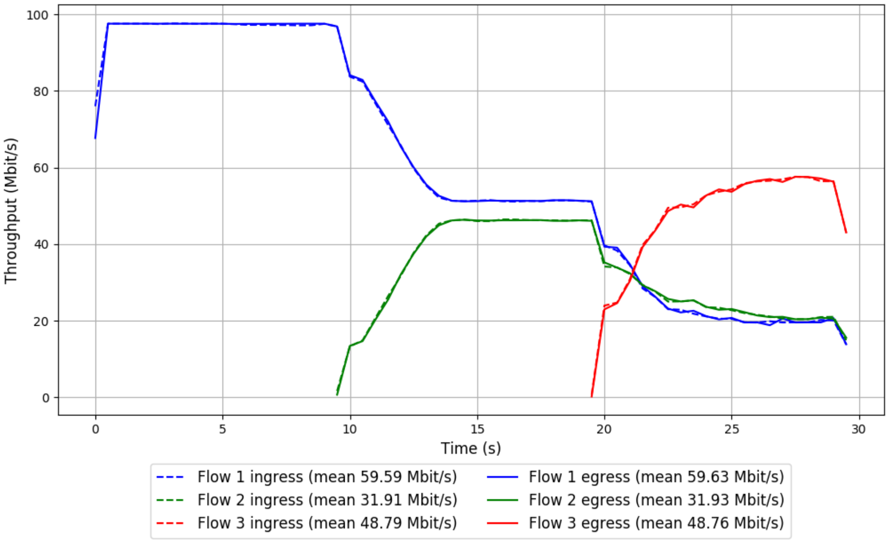
Run 1: Report of TCP Vegas — Data Link

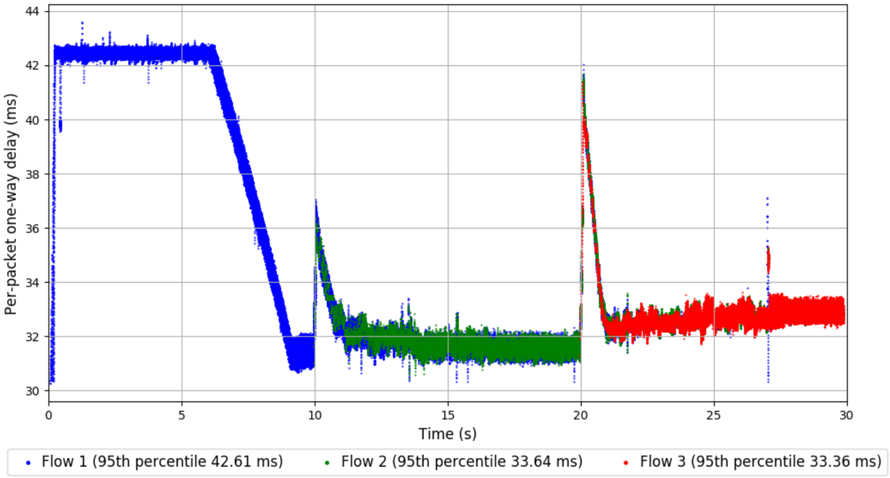




```
Run 2: Statistics of TCP Vegas

Start at: 2018-01-16 23:24:43
End at: 2018-01-16 23:25:13
Local clock offset: -8.114 ms
Remote clock offset: -10.931 ms

# Below is generated by plot.py at 2018-01-17 06:20:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 42.544 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 59.63 Mbit/s
95th percentile per-packet one-way delay: 42.610 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 31.93 Mbit/s
95th percentile per-packet one-way delay: 33.642 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 48.76 Mbit/s
95th percentile per-packet one-way delay: 33.359 ms
Loss rate: 0.34%
```

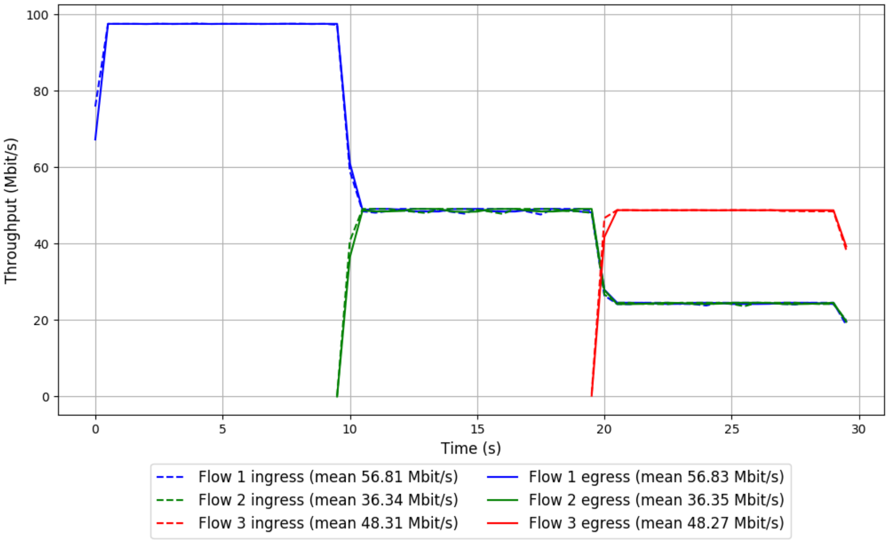
Run 2: Report of TCP Vegas — Data Link

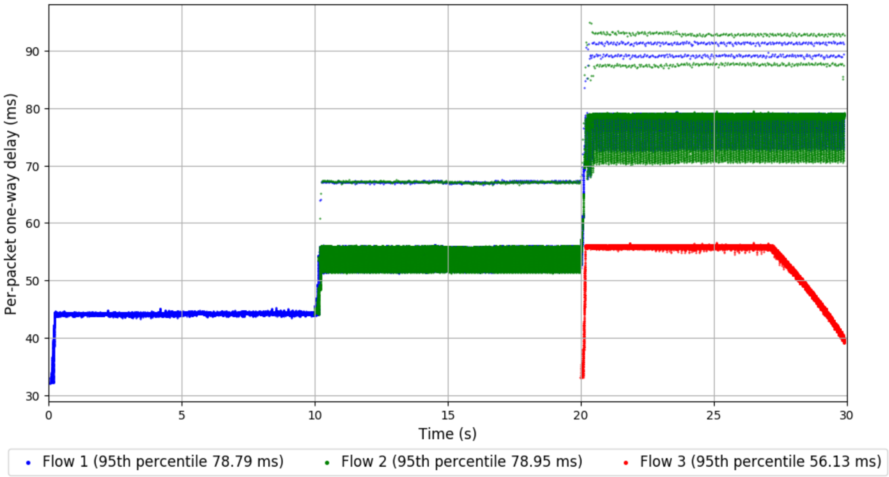




```
Run 3: Statistics of TCP Vegas

Start at: 2018-01-16 23:45:56
End at: 2018-01-16 23:46:26
Local clock offset: -2.593 ms
Remote clock offset: -8.213 ms

# Below is generated by plot.py at 2018-01-17 06:20:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 78.821 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 56.83 Mbit/s
95th percentile per-packet one-way delay: 78.787 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 36.35 Mbit/s
95th percentile per-packet one-way delay: 78.952 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 48.27 Mbit/s
95th percentile per-packet one-way delay: 56.127 ms
Loss rate: 0.34%
```

Run 3: Report of TCP Vegas — Data Link





```
Run 4: Statistics of TCP Vegas

Start at: 2018-01-17 00:07:00
End at: 2018-01-17 00:07:30
Local clock offset: -1.318 ms
Remote clock offset: -9.381 ms
```

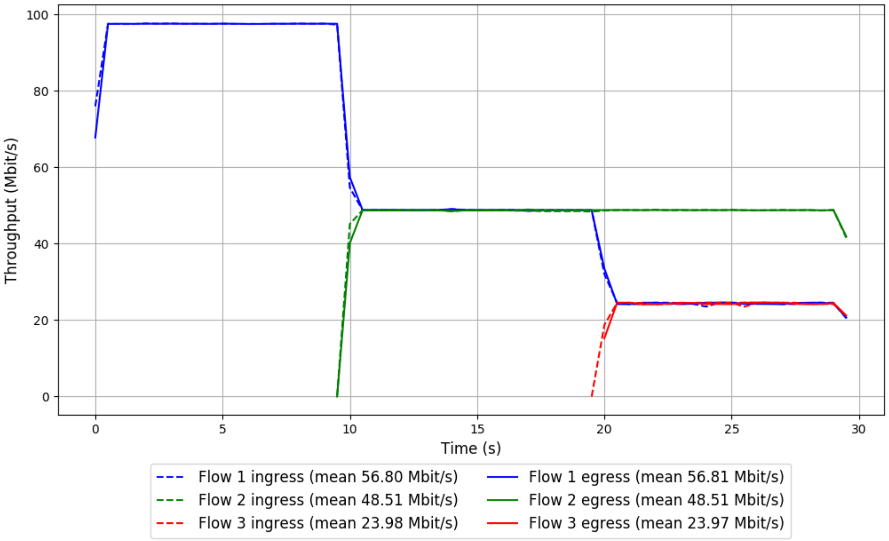
Run 4: Report of TCP Vegas — Data Link

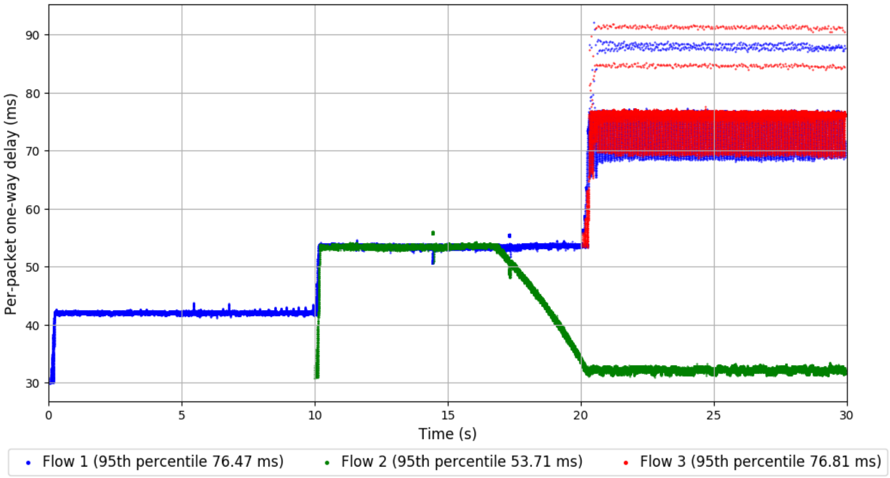
Figure is missing

Figure is missing

```
Run 5: Statistics of TCP Vegas

Start at: 2018-01-17 00:28:21
End at: 2018-01-17 00:28:51
Local clock offset: -4.304 ms
Remote clock offset: -9.339 ms

# Below is generated by plot.py at 2018-01-17 06:20:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 76.527 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 56.81 Mbit/s
95th percentile per-packet one-way delay: 76.473 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 48.51 Mbit/s
95th percentile per-packet one-way delay: 53.710 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 23.97 Mbit/s
95th percentile per-packet one-way delay: 76.815 ms
Loss rate: 0.71%
```

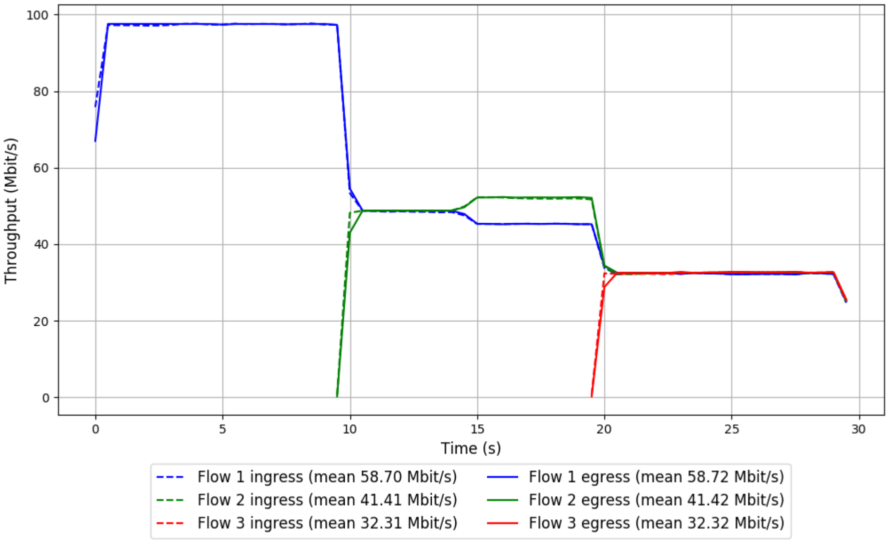
Run 5: Report of TCP Vegas — Data Link

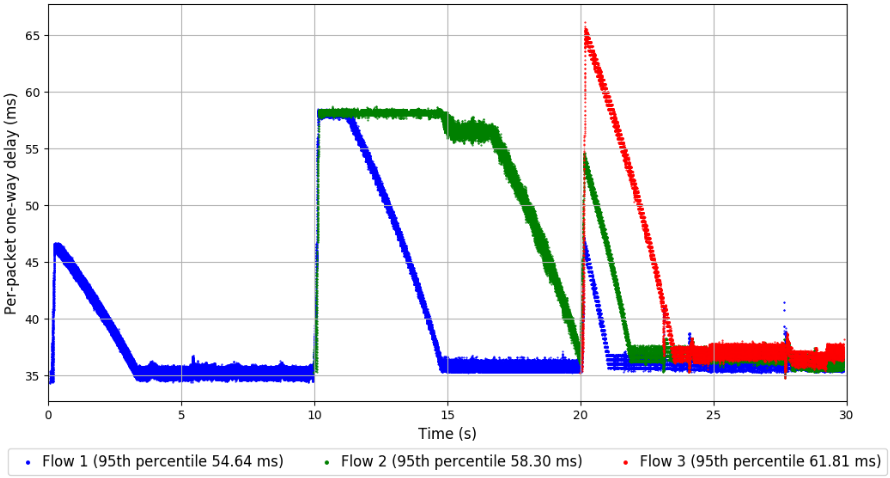




```
Run 6: Statistics of TCP Vegas

Start at: 2018-01-17 00:49:29
End at: 2018-01-17 00:49:59
Local clock offset: -3.329 ms
Remote clock offset: -14.293 ms

# Below is generated by plot.py at 2018-01-17 06:20:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.12 Mbit/s
95th percentile per-packet one-way delay: 58.203 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 58.72 Mbit/s
95th percentile per-packet one-way delay: 54.639 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 41.42 Mbit/s
95th percentile per-packet one-way delay: 58.304 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 32.32 Mbit/s
95th percentile per-packet one-way delay: 61.813 ms
Loss rate: 0.29%
```

Run 6: Report of TCP Vegas — Data Link





```
Run 7: Statistics of TCP Vegas

Start at: 2018-01-17 01:10:42
End at: 2018-01-17 01:11:12
Local clock offset: -5.81 ms
Remote clock offset: -14.373 ms
```

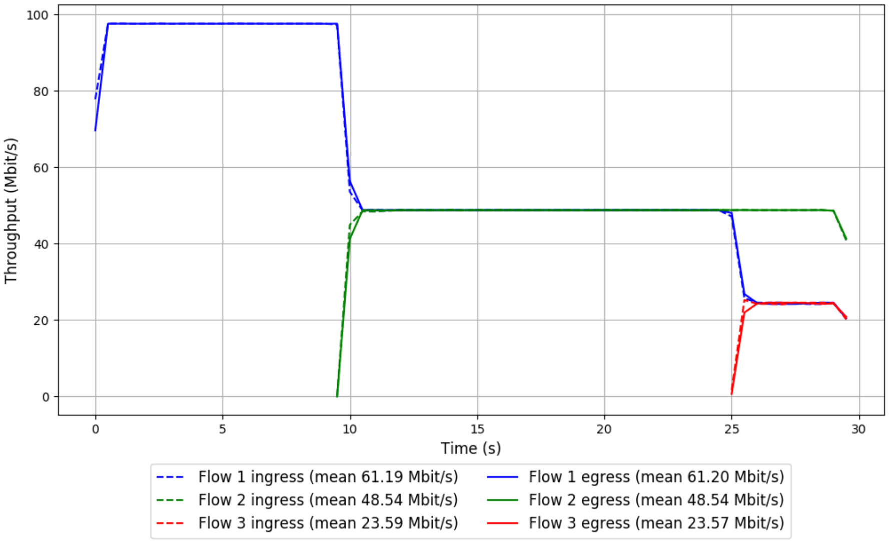
Run 7: Report of TCP Vegas — Data Link

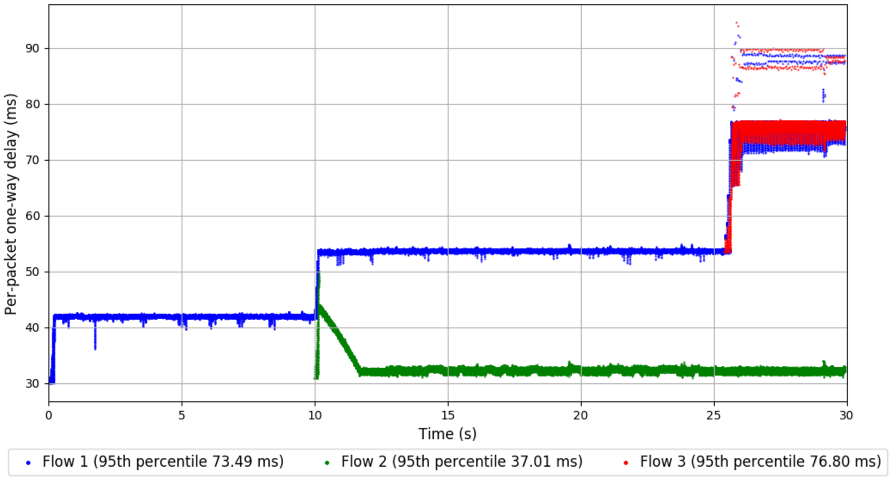
Figure is missing

Figure is missing

```
Run 8: Statistics of TCP Vegas

Start at: 2018-01-17 01:31:53
End at: 2018-01-17 01:32:23
Local clock offset: -3.31 ms
Remote clock offset: -14.434 ms

# Below is generated by plot.py at 2018-01-17 06:20:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.16 Mbit/s
95th percentile per-packet one-way delay: 76.250 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 61.20 Mbit/s
95th percentile per-packet one-way delay: 73.490 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 48.54 Mbit/s
95th percentile per-packet one-way delay: 37.009 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 23.57 Mbit/s
95th percentile per-packet one-way delay: 76.797 ms
Loss rate: 1.59%
```

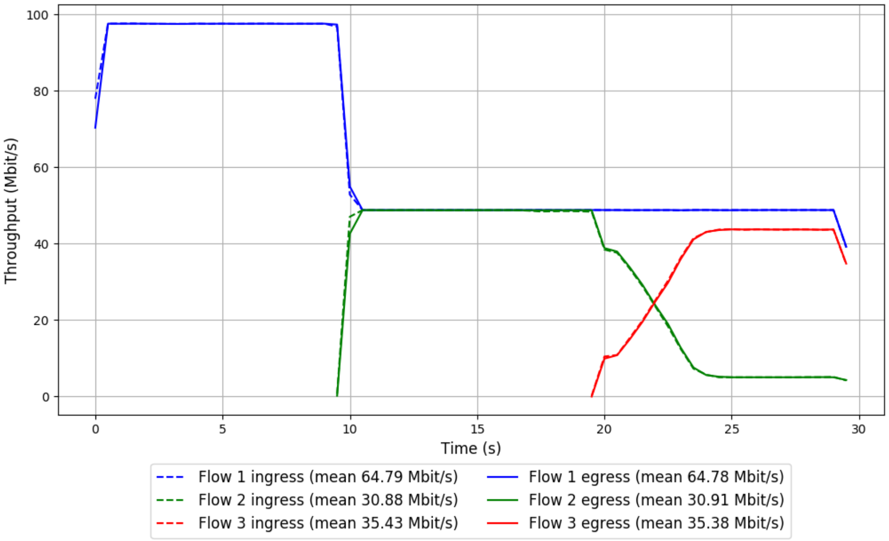
Run 8: Report of TCP Vegas — Data Link

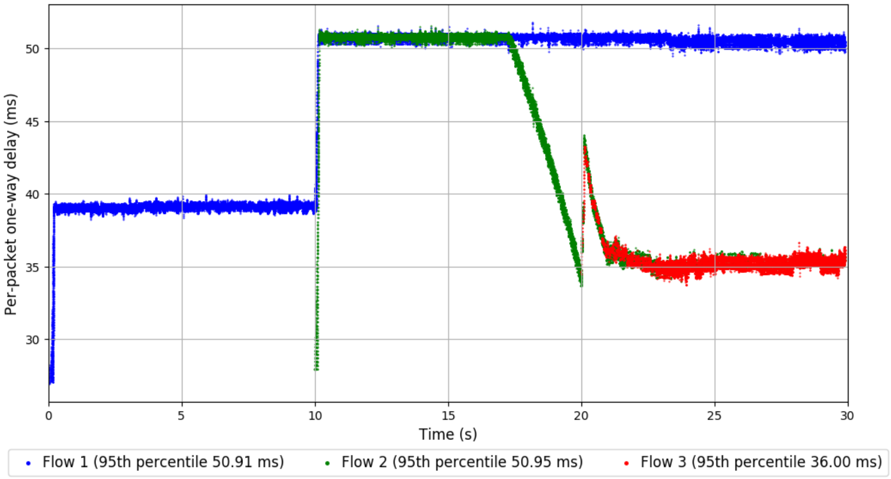




```
Run 9: Statistics of TCP Vegas

Start at: 2018-01-17 01:53:06
End at: 2018-01-17 01:53:36
Local clock offset: -10.047 ms
Remote clock offset: -19.923 ms

# Below is generated by plot.py at 2018-01-17 06:21:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 50.915 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 64.78 Mbit/s
95th percentile per-packet one-way delay: 50.910 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 30.91 Mbit/s
95th percentile per-packet one-way delay: 50.955 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 35.38 Mbit/s
95th percentile per-packet one-way delay: 35.998 ms
Loss rate: 0.41%
```

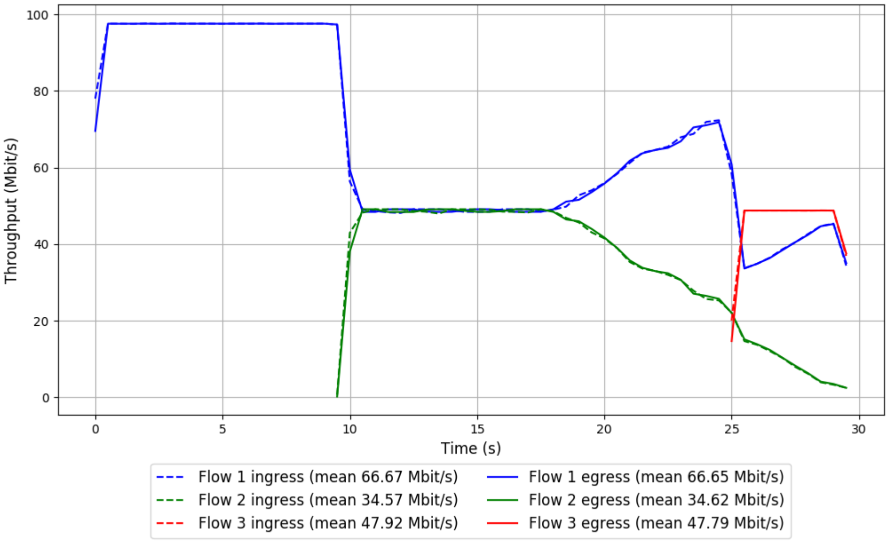
Run 9: Report of TCP Vegas — Data Link

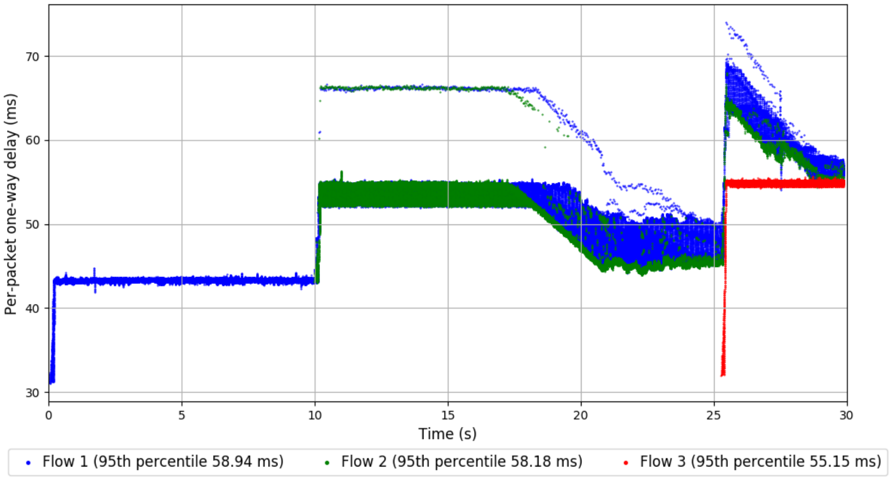




```
Run 10: Statistics of TCP Vegas

Start at: 2018-01-17 02:14:30
End at: 2018-01-17 02:15:00
Local clock offset: -1.764 ms
Remote clock offset: -16.514 ms

# Below is generated by plot.py at 2018-01-17 06:21:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.16 Mbit/s
95th percentile per-packet one-way delay: 58.415 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 66.65 Mbit/s
95th percentile per-packet one-way delay: 58.944 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 34.62 Mbit/s
95th percentile per-packet one-way delay: 58.179 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 47.79 Mbit/s
95th percentile per-packet one-way delay: 55.151 ms
Loss rate: 1.06%
```

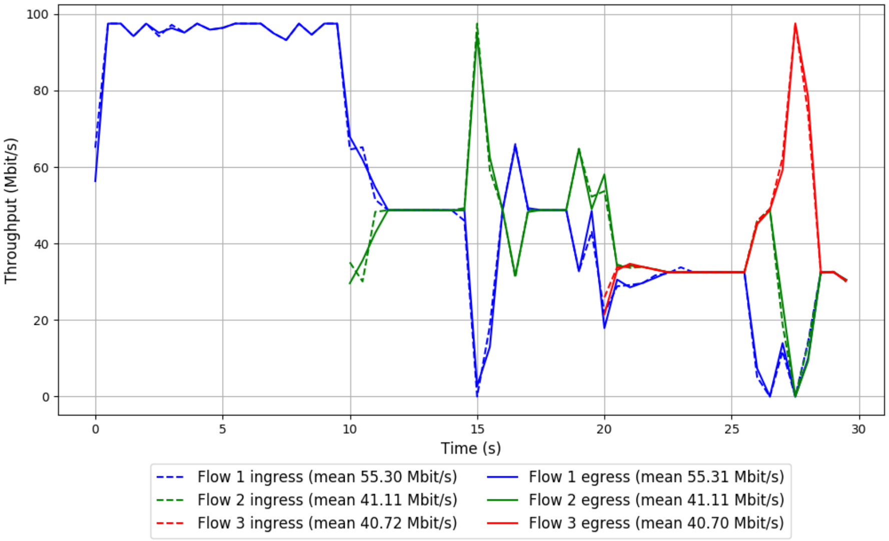
Run 10: Report of TCP Vegas — Data Link

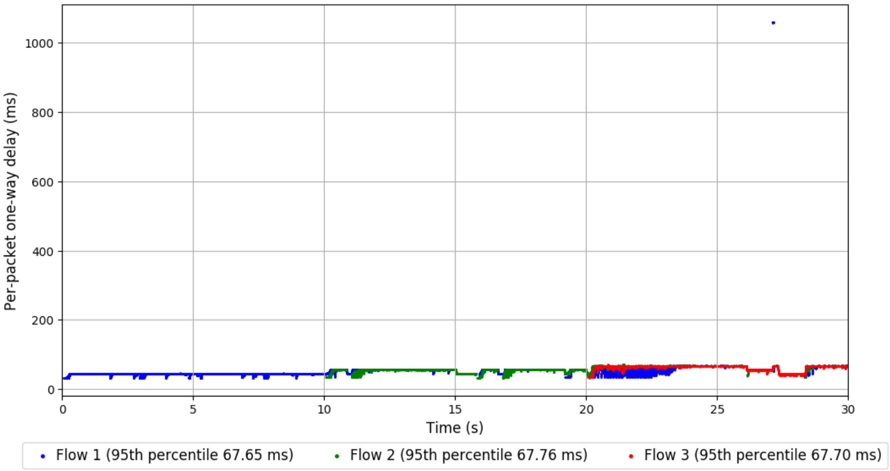




```
Run 1: Statistics of Verus

Start at: 2018-01-16 23:05:36
End at: 2018-01-16 23:06:06
Local clock offset: -4.518 ms
Remote clock offset: -9.548 ms

# Below is generated by plot.py at 2018-01-17 06:21:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.18 Mbit/s
95th percentile per-packet one-way delay: 67.710 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 55.31 Mbit/s
95th percentile per-packet one-way delay: 67.652 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 41.11 Mbit/s
95th percentile per-packet one-way delay: 67.760 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 40.70 Mbit/s
95th percentile per-packet one-way delay: 67.699 ms
Loss rate: 0.49%
```

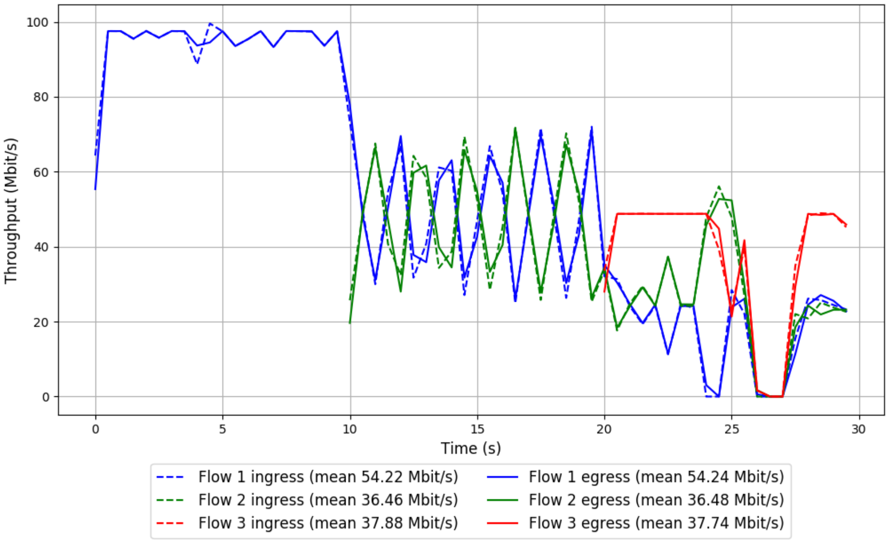
Run 1: Report of Verus — Data Link

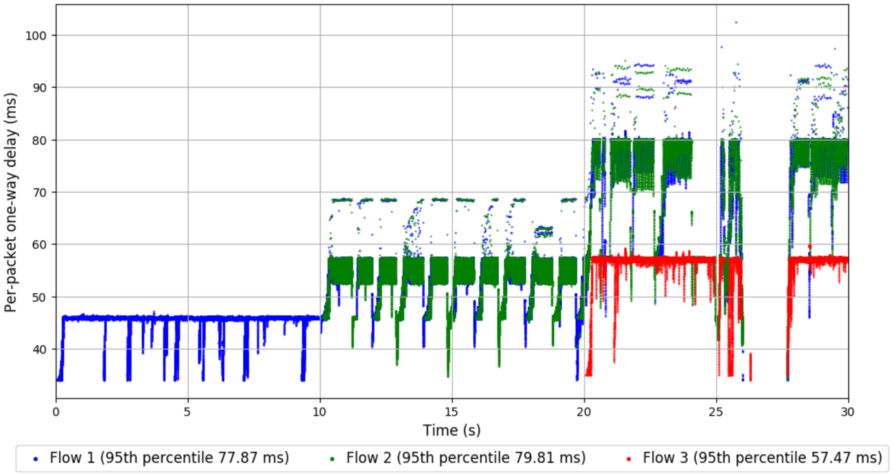




```
Run 2: Statistics of Verus

Start at: 2018-01-16 23:26:59
End at: 2018-01-16 23:27:29
Local clock offset: -2.625 ms
Remote clock offset: -9.264 ms

# Below is generated by plot.py at 2018-01-17 06:21:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.00 Mbit/s
95th percentile per-packet one-way delay: 78.800 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 54.24 Mbit/s
95th percentile per-packet one-way delay: 77.866 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 36.48 Mbit/s
95th percentile per-packet one-way delay: 79.813 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 37.74 Mbit/s
95th percentile per-packet one-way delay: 57.468 ms
Loss rate: 0.65%
```

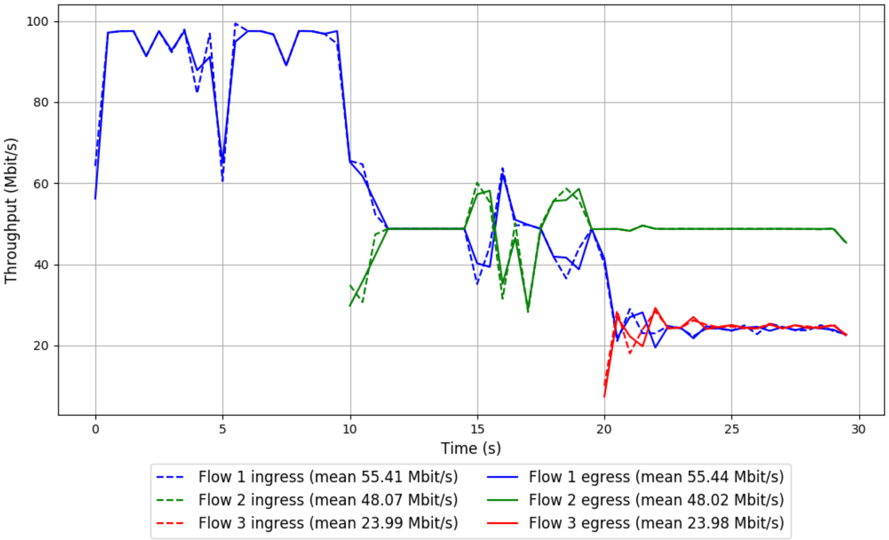
Run 2: Report of Verus — Data Link

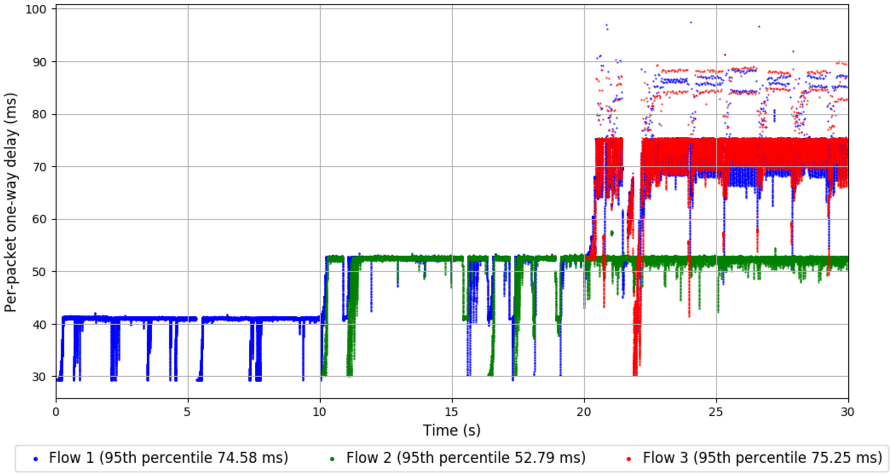




```
Run 3: Statistics of Verus

Start at: 2018-01-16 23:48:12
End at: 2018-01-16 23:48:42
Local clock offset: -5.12 ms
Remote clock offset: -7.693 ms

# Below is generated by plot.py at 2018-01-17 06:21:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.33 Mbit/s
95th percentile per-packet one-way delay: 74.802 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 55.44 Mbit/s
95th percentile per-packet one-way delay: 74.579 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 48.02 Mbit/s
95th percentile per-packet one-way delay: 52.788 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 23.98 Mbit/s
95th percentile per-packet one-way delay: 75.253 ms
Loss rate: 0.68%
```

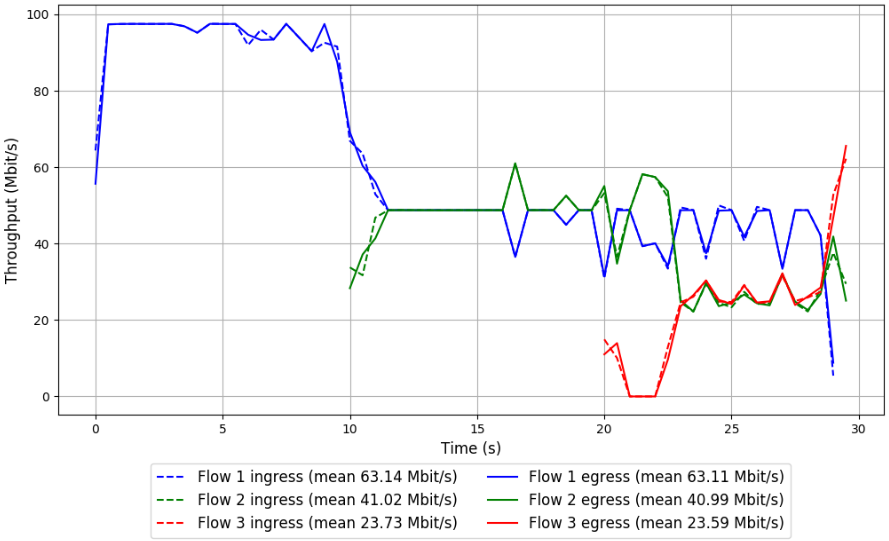
Run 3: Report of Verus — Data Link

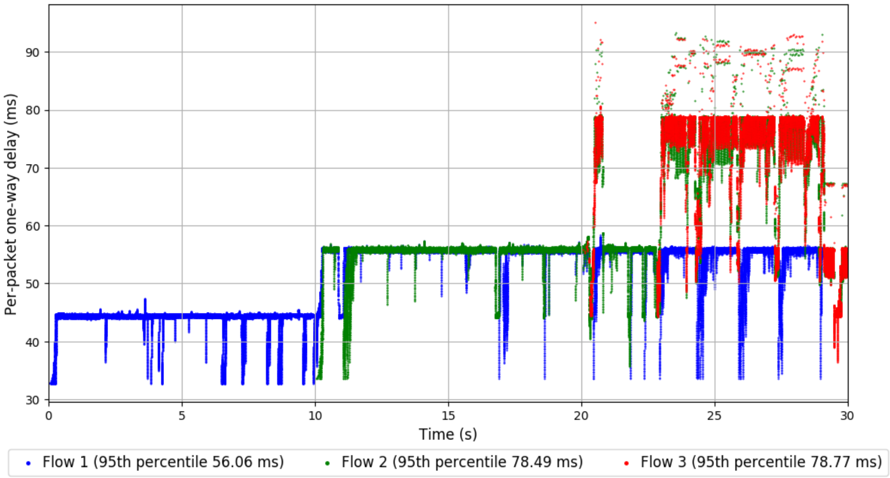




```
Run 4: Statistics of Verus

Start at: 2018-01-17 00:09:15
End at: 2018-01-17 00:09:45
Local clock offset: -2.25 ms
Remote clock offset: -8.588 ms

# Below is generated by plot.py at 2018-01-17 06:22:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.32 Mbit/s
95th percentile per-packet one-way delay: 77.106 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 63.11 Mbit/s
95th percentile per-packet one-way delay: 56.064 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 40.99 Mbit/s
95th percentile per-packet one-way delay: 78.493 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 23.59 Mbit/s
95th percentile per-packet one-way delay: 78.774 ms
Loss rate: 1.11%
```

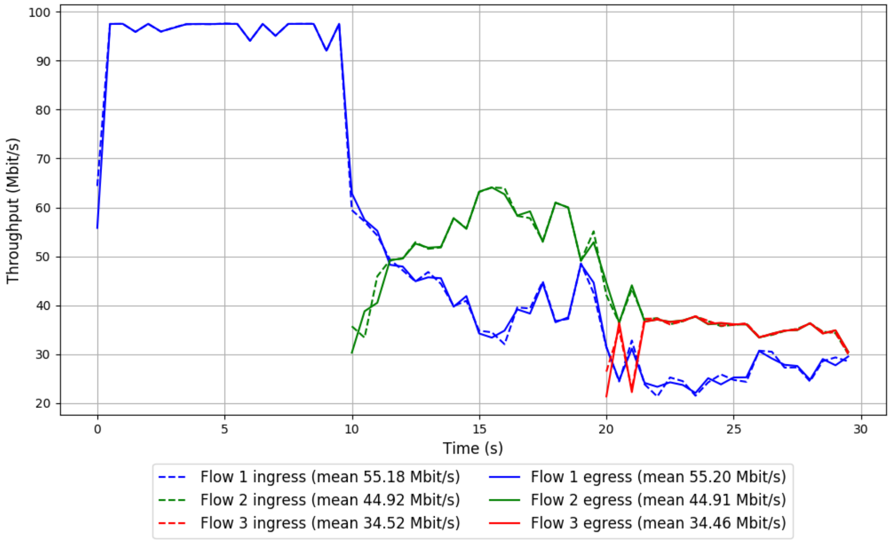
Run 4: Report of Verus — Data Link

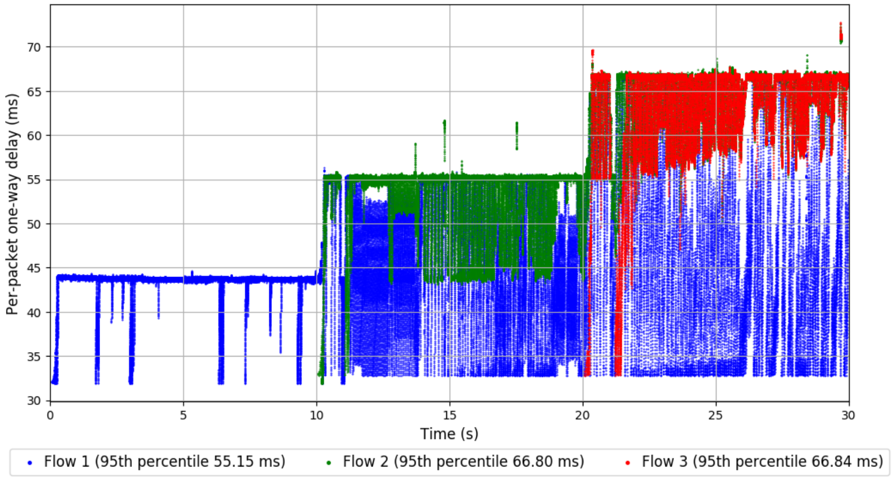




```
Run 5: Statistics of Verus

Start at: 2018-01-17 00:30:37
End at: 2018-01-17 00:31:07
Local clock offset: -3.587 ms
Remote clock offset: -10.689 ms

# Below is generated by plot.py at 2018-01-17 06:22:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.50 Mbit/s
95th percentile per-packet one-way delay: 66.676 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 55.20 Mbit/s
95th percentile per-packet one-way delay: 55.149 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 44.91 Mbit/s
95th percentile per-packet one-way delay: 66.804 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 34.46 Mbit/s
95th percentile per-packet one-way delay: 66.840 ms
Loss rate: 0.57%
```

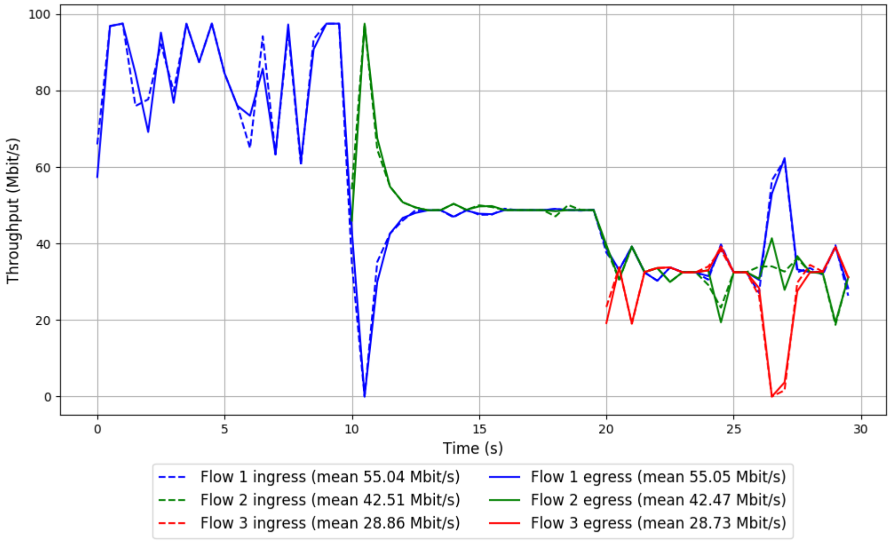
Run 5: Report of Verus — Data Link

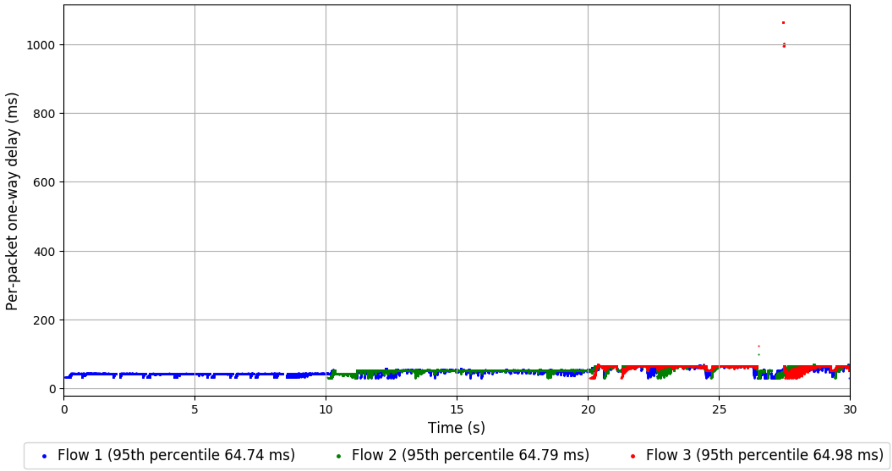




```
Run 6: Statistics of Verus

Start at: 2018-01-17 00:51:45
End at: 2018-01-17 00:52:15
Local clock offset: -5.673 ms
Remote clock offset: -13.899 ms

# Below is generated by plot.py at 2018-01-17 06:22:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.81 Mbit/s
95th percentile per-packet one-way delay: 64.839 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 55.05 Mbit/s
95th percentile per-packet one-way delay: 64.739 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 42.47 Mbit/s
95th percentile per-packet one-way delay: 64.787 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 28.73 Mbit/s
95th percentile per-packet one-way delay: 64.977 ms
Loss rate: 0.70%
```

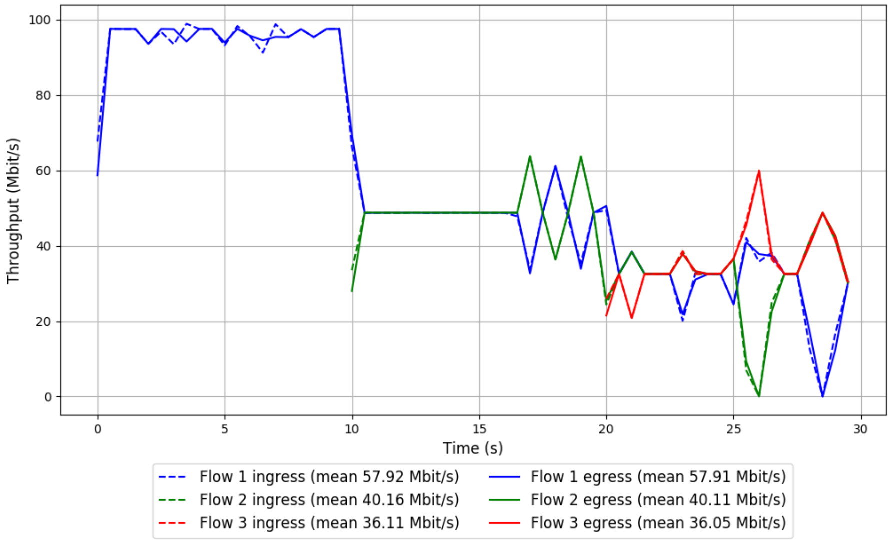
Run 6: Report of Verus — Data Link

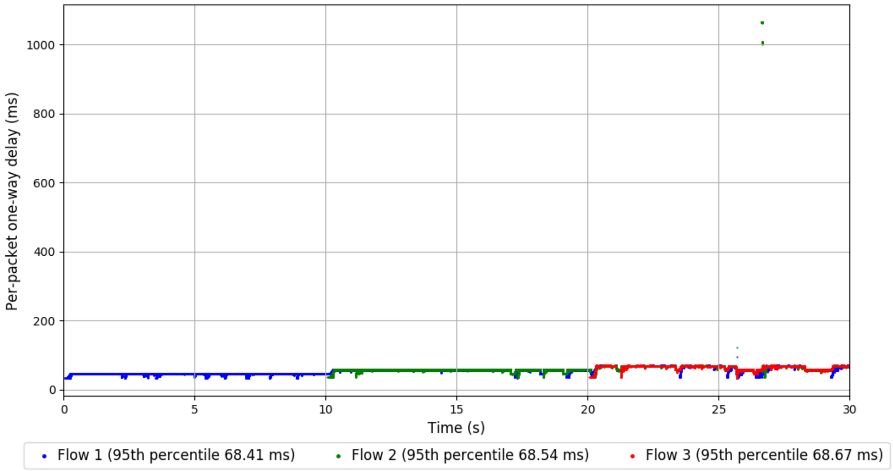




```
Run 7: Statistics of Verus

Start at: 2018-01-17 01:12:56
End at: 2018-01-17 01:13:26
Local clock offset: -0.999 ms
Remote clock offset: -14.174 ms

# Below is generated by plot.py at 2018-01-17 06:22:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.51 Mbit/s
95th percentile per-packet one-way delay: 68.549 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 57.91 Mbit/s
95th percentile per-packet one-way delay: 68.410 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 40.11 Mbit/s
95th percentile per-packet one-way delay: 68.540 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 36.05 Mbit/s
95th percentile per-packet one-way delay: 68.665 ms
Loss rate: 0.54%
```

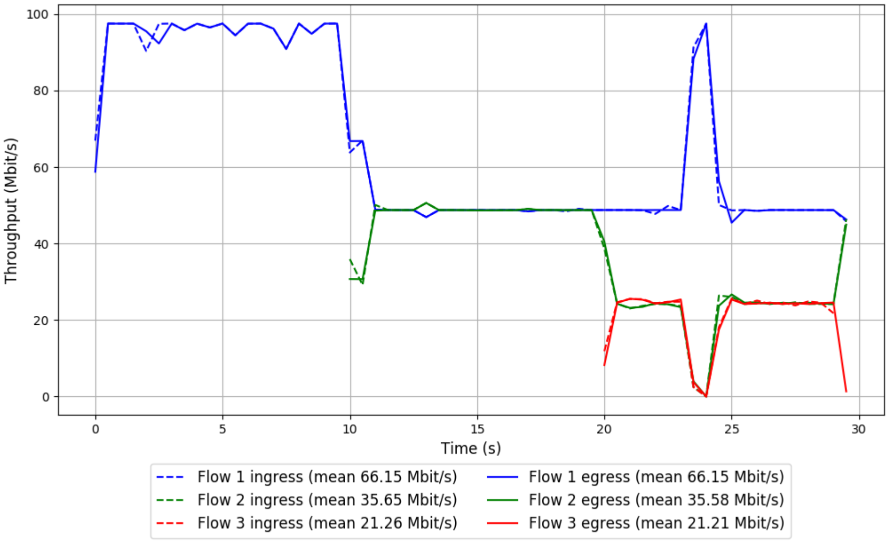
Run 7: Report of Verus — Data Link

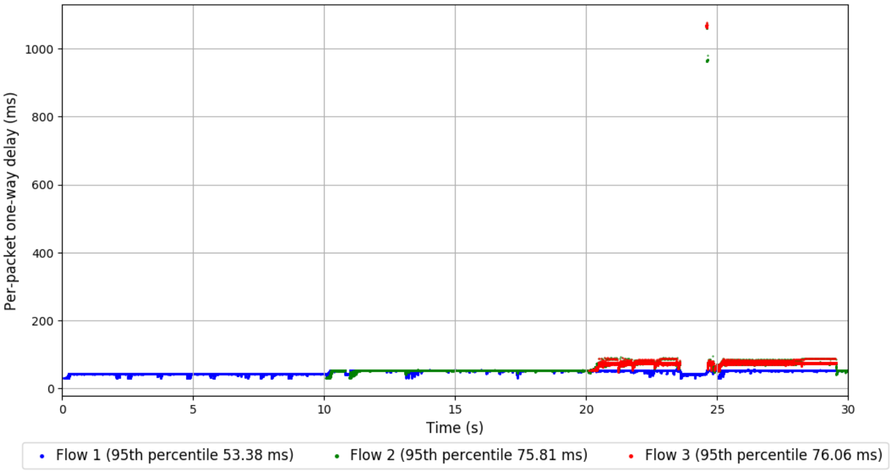




```
Run 8: Statistics of Verus

Start at: 2018-01-17 01:34:10
End at: 2018-01-17 01:34:40
Local clock offset: -4.811 ms
Remote clock offset: -16.041 ms

# Below is generated by plot.py at 2018-01-17 06:23:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.52 Mbit/s
95th percentile per-packet one-way delay: 75.609 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 66.15 Mbit/s
95th percentile per-packet one-way delay: 53.382 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 35.58 Mbit/s
95th percentile per-packet one-way delay: 75.807 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 21.21 Mbit/s
95th percentile per-packet one-way delay: 76.059 ms
Loss rate: 0.00%
```

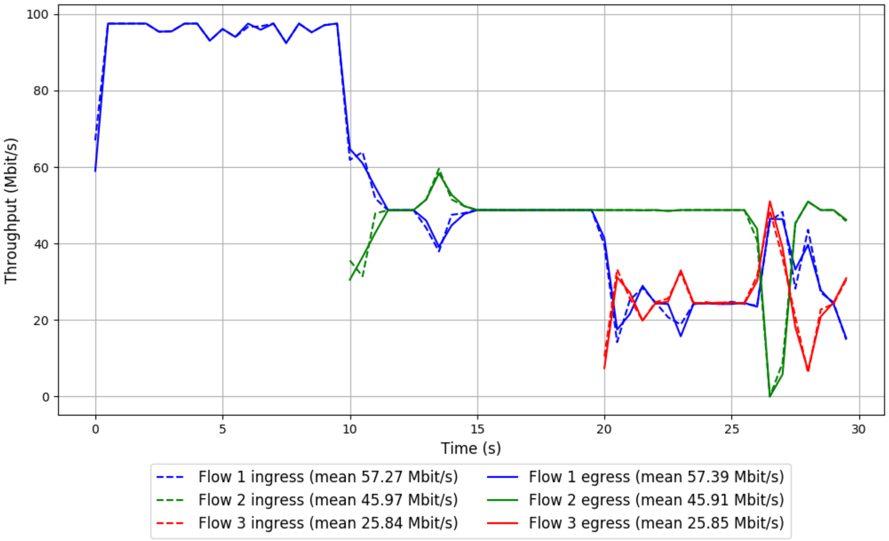
Run 8: Report of Verus — Data Link

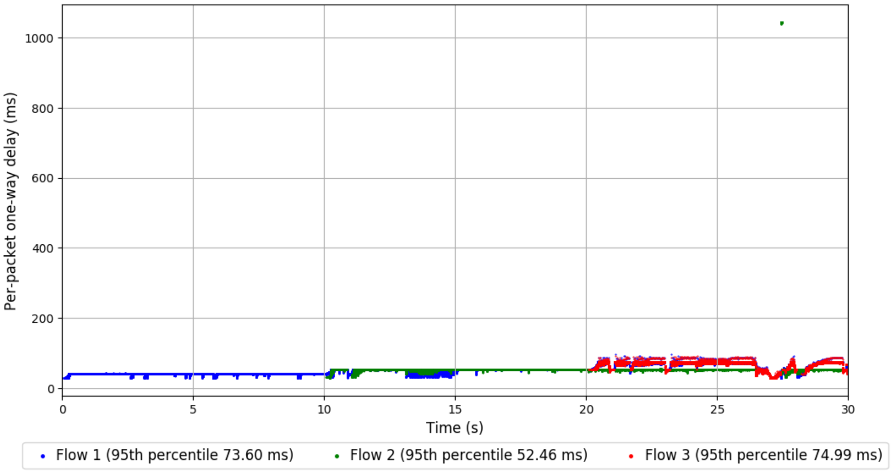




```
Run 9: Statistics of Verus

Start at: 2018-01-17 01:55:23
End at: 2018-01-17 01:55:53
Local clock offset: -3.074 ms
Remote clock offset: -15.077 ms

# Below is generated by plot.py at 2018-01-17 06:23:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.40 Mbit/s
95th percentile per-packet one-way delay: 74.342 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 57.39 Mbit/s
95th percentile per-packet one-way delay: 73.602 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 45.91 Mbit/s
95th percentile per-packet one-way delay: 52.461 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 25.85 Mbit/s
95th percentile per-packet one-way delay: 74.993 ms
Loss rate: 0.61%
```

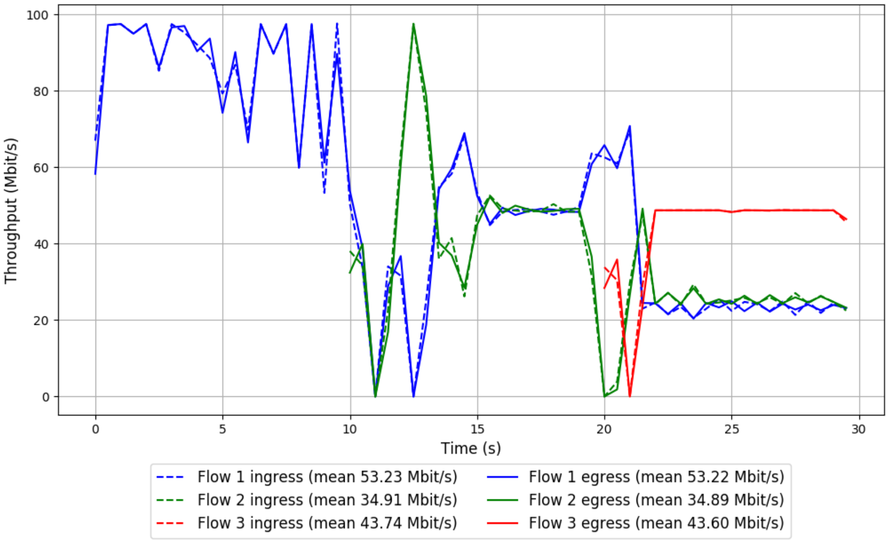
Run 9: Report of Verus — Data Link

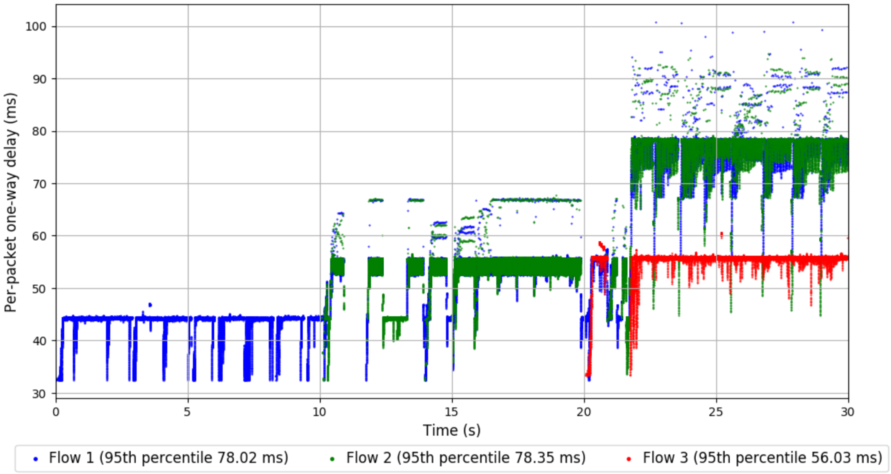




```
Run 10: Statistics of Verus

Start at: 2018-01-17 02:16:47
End at: 2018-01-17 02:17:17
Local clock offset: -0.513 ms
Remote clock offset: -16.464 ms

# Below is generated by plot.py at 2018-01-17 06:23:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.86 Mbit/s
95th percentile per-packet one-way delay: 78.178 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 53.22 Mbit/s
95th percentile per-packet one-way delay: 78.021 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 34.89 Mbit/s
95th percentile per-packet one-way delay: 78.348 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 43.60 Mbit/s
95th percentile per-packet one-way delay: 56.027 ms
Loss rate: 0.54%
```

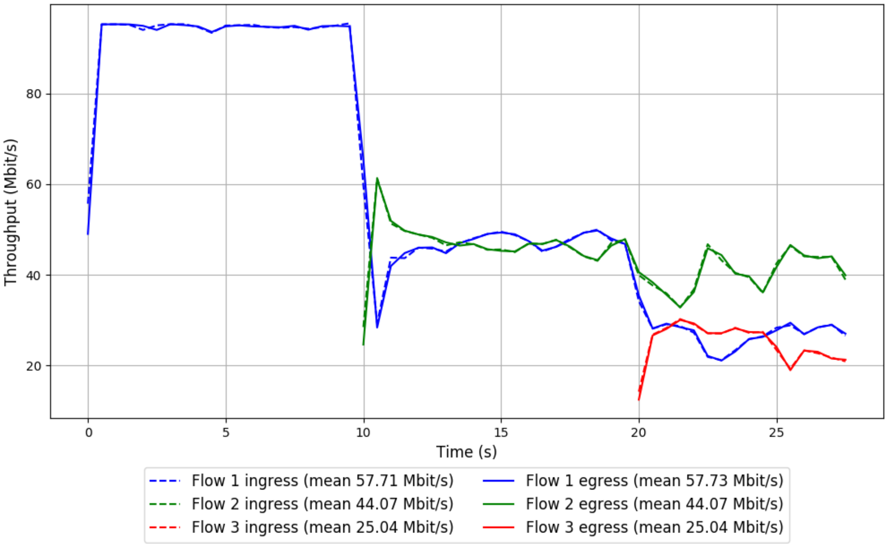
Run 10: Report of Verus — Data Link

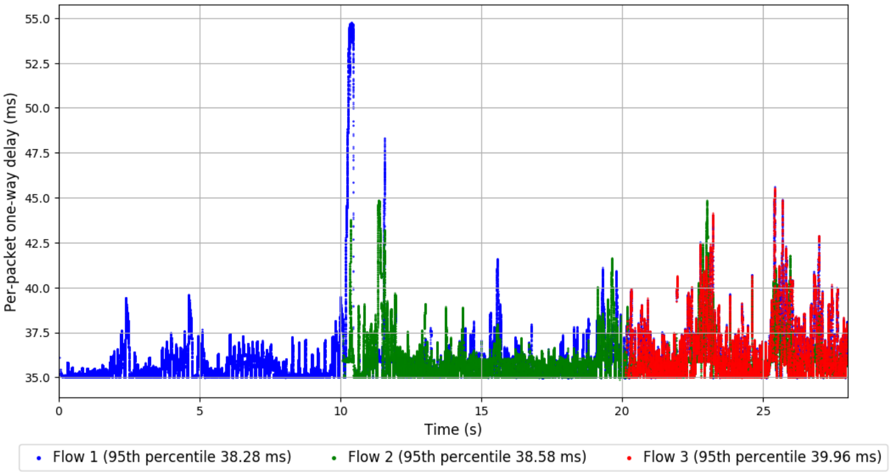




```
Run 1: Statistics of Copa

Start at: 2018-01-16 22:53:54
End at: 2018-01-16 22:54:24
Local clock offset: -3.078 ms
Remote clock offset: -10.22 ms

# Below is generated by plot.py at 2018-01-17 06:24:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.09 Mbit/s
95th percentile per-packet one-way delay: 38.542 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 57.73 Mbit/s
95th percentile per-packet one-way delay: 38.284 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 44.07 Mbit/s
95th percentile per-packet one-way delay: 38.582 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 25.04 Mbit/s
95th percentile per-packet one-way delay: 39.956 ms
Loss rate: 0.31%
```

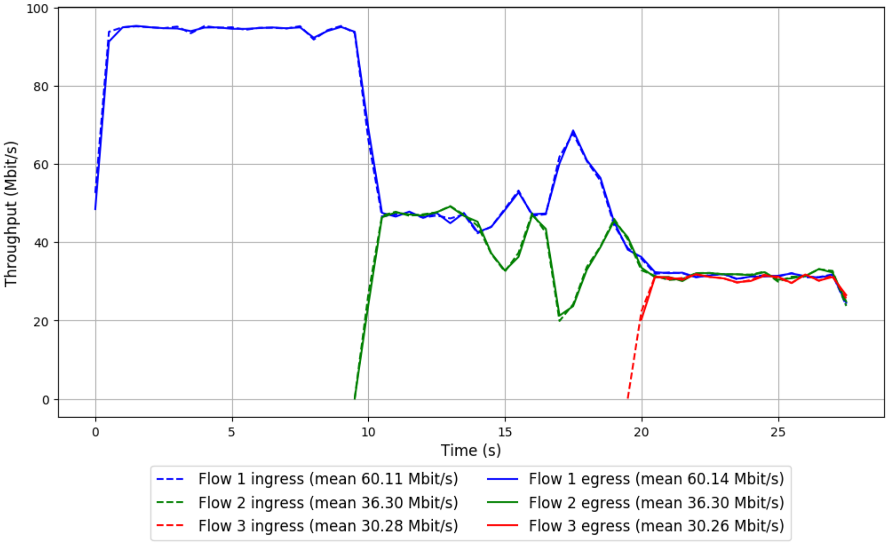
Run 1: Report of Copa — Data Link

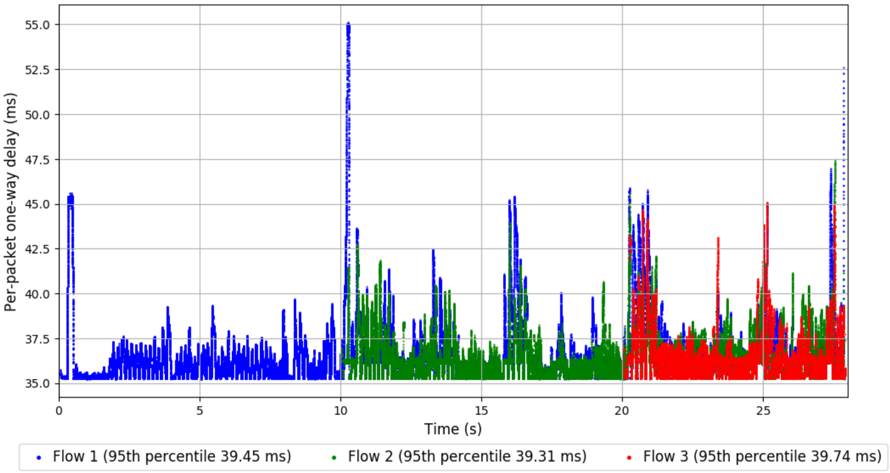




```
Run 2: Statistics of Copa

Start at: 2018-01-16 23:15:11
End at: 2018-01-16 23:15:41
Local clock offset: -2.46 ms
Remote clock offset: -9.928 ms

# Below is generated by plot.py at 2018-01-17 06:24:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.05 Mbit/s
95th percentile per-packet one-way delay: 39.428 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 60.14 Mbit/s
95th percentile per-packet one-way delay: 39.455 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 36.30 Mbit/s
95th percentile per-packet one-way delay: 39.314 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 30.26 Mbit/s
95th percentile per-packet one-way delay: 39.742 ms
Loss rate: 0.39%
```

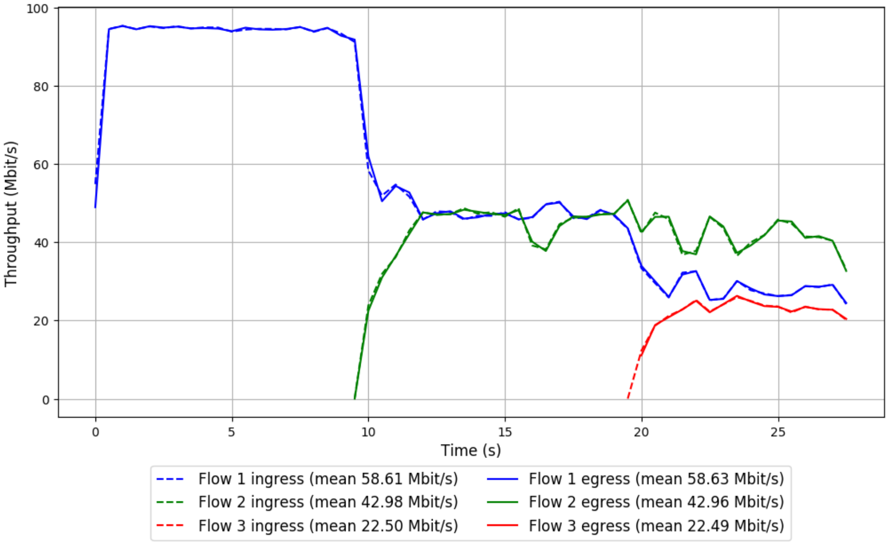
Run 2: Report of Copa — Data Link

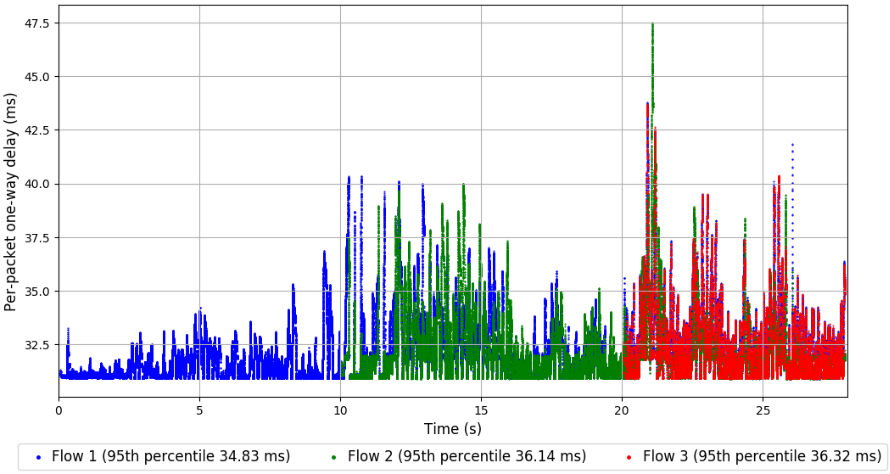




```
Run 3: Statistics of Copa

Start at: 2018-01-16 23:36:29
End at: 2018-01-16 23:36:59
Local clock offset: -2.977 ms
Remote clock offset: -7.043 ms

# Below is generated by plot.py at 2018-01-17 06:24:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.61 Mbit/s
95th percentile per-packet one-way delay: 35.368 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 58.63 Mbit/s
95th percentile per-packet one-way delay: 34.828 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 42.96 Mbit/s
95th percentile per-packet one-way delay: 36.140 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 22.49 Mbit/s
95th percentile per-packet one-way delay: 36.318 ms
Loss rate: 0.36%
```

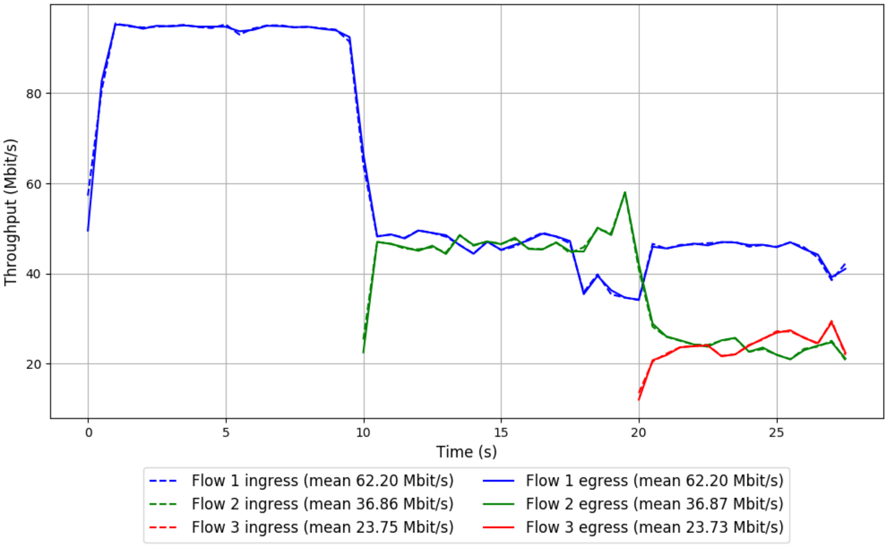
Run 3: Report of Copa — Data Link

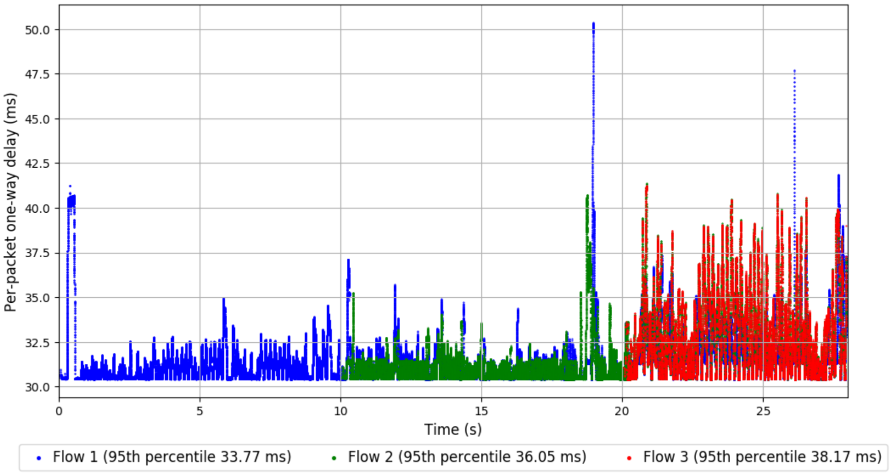




```
Run 4: Statistics of Copa

Start at: 2018-01-16 23:57:34
End at: 2018-01-16 23:58:05
Local clock offset: -3.684 ms
Remote clock offset: -7.025 ms

# Below is generated by plot.py at 2018-01-17 06:24:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.57 Mbit/s
95th percentile per-packet one-way delay: 35.233 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 62.20 Mbit/s
95th percentile per-packet one-way delay: 33.768 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 36.87 Mbit/s
95th percentile per-packet one-way delay: 36.045 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 23.73 Mbit/s
95th percentile per-packet one-way delay: 38.167 ms
Loss rate: 0.41%
```

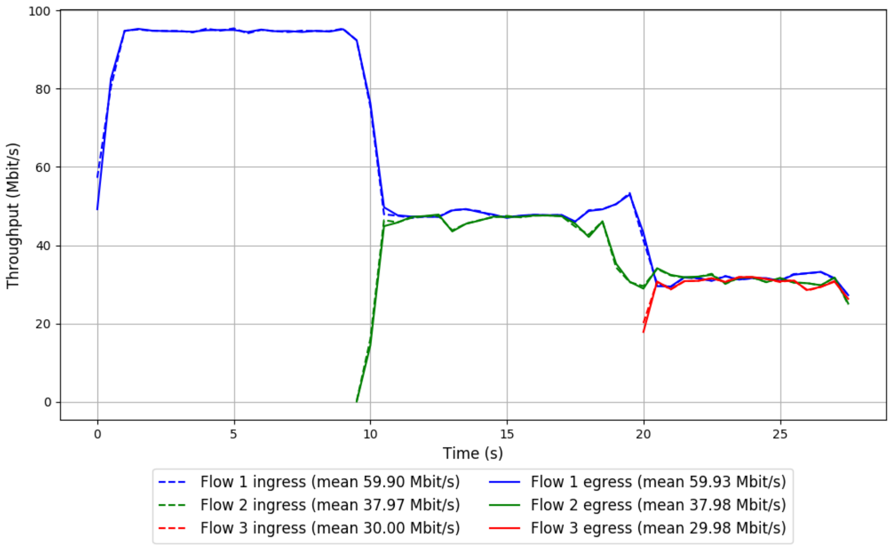
Run 4: Report of Copa — Data Link

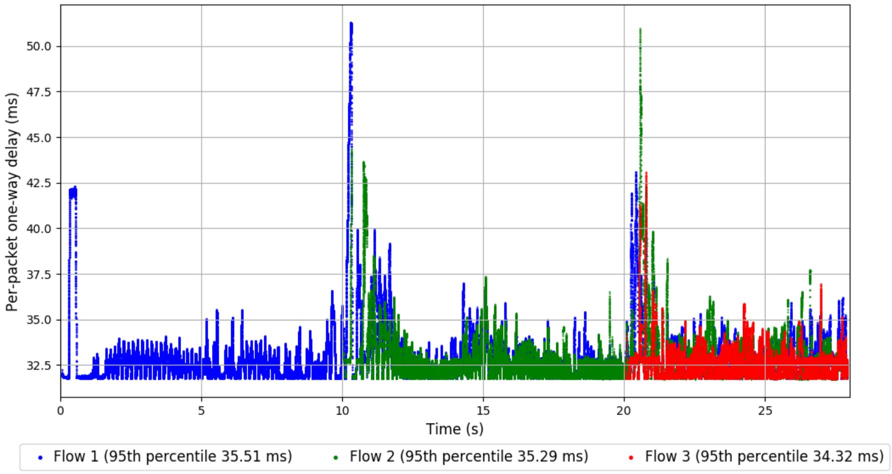




```
Run 5: Statistics of Copa

Start at: 2018-01-17 00:18:51
End at: 2018-01-17 00:19:21
Local clock offset: -3.43 ms
Remote clock offset: -9.592 ms

# Below is generated by plot.py at 2018-01-17 06:24:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.82 Mbit/s
95th percentile per-packet one-way delay: 35.304 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 59.93 Mbit/s
95th percentile per-packet one-way delay: 35.508 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 37.98 Mbit/s
95th percentile per-packet one-way delay: 35.286 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 29.98 Mbit/s
95th percentile per-packet one-way delay: 34.324 ms
Loss rate: 0.41%
```

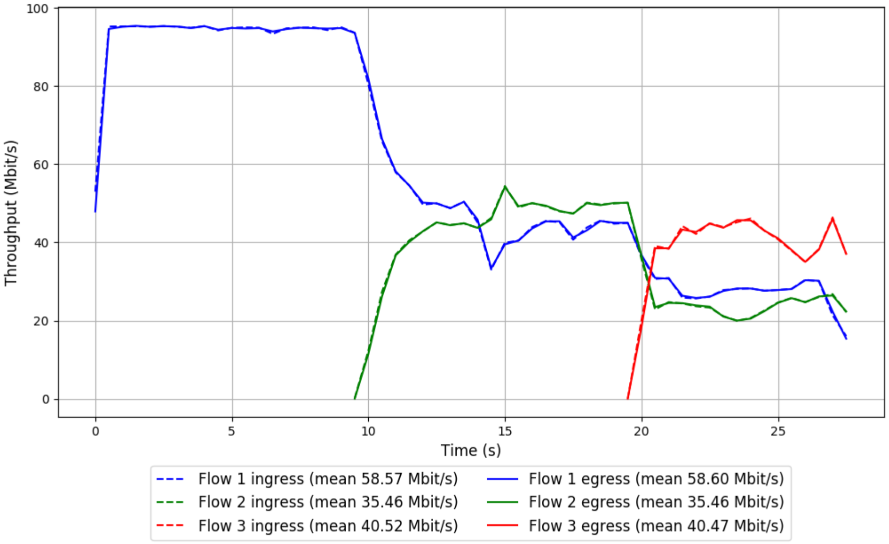
Run 5: Report of Copa — Data Link

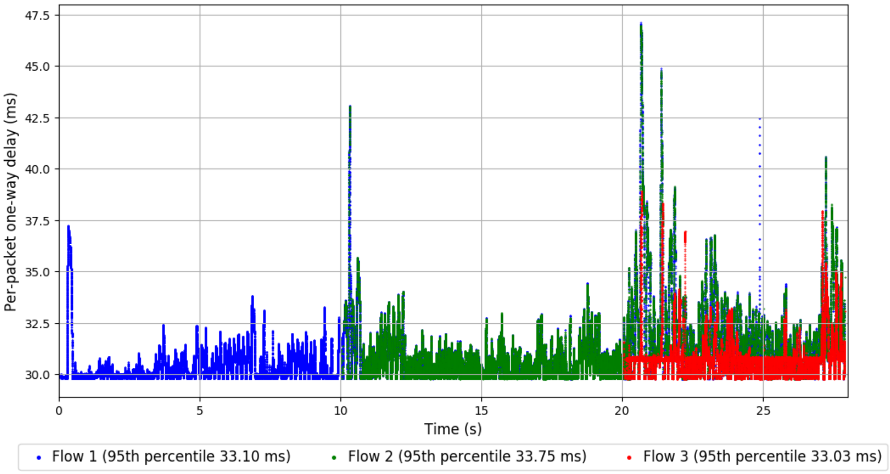




```
Run 6: Statistics of Copa

Start at: 2018-01-17 00:40:02
End at: 2018-01-17 00:40:32
Local clock offset: -5.959 ms
Remote clock offset: -11.553 ms

# Below is generated by plot.py at 2018-01-17 06:25:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.85 Mbit/s
95th percentile per-packet one-way delay: 33.250 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 58.60 Mbit/s
95th percentile per-packet one-way delay: 33.098 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 35.46 Mbit/s
95th percentile per-packet one-way delay: 33.750 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 40.47 Mbit/s
95th percentile per-packet one-way delay: 33.030 ms
Loss rate: 0.43%
```

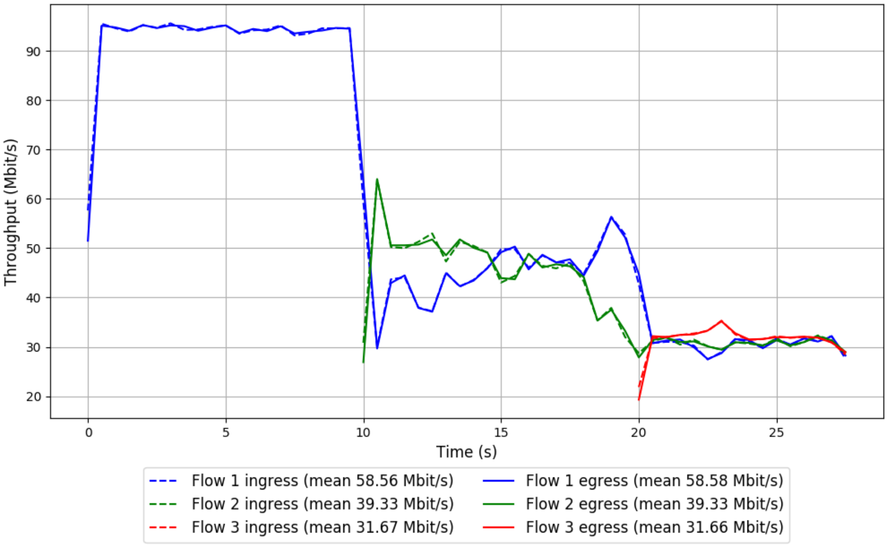
Run 6: Report of Copa — Data Link

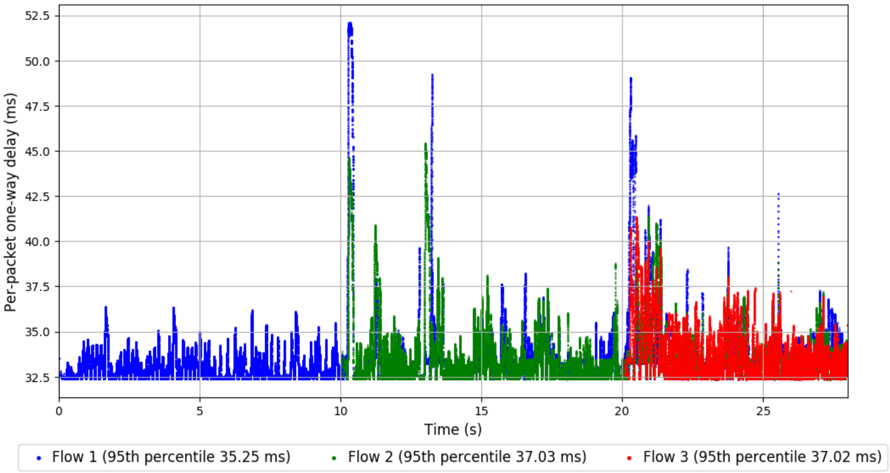




```
Run 7: Statistics of Copa

Start at: 2018-01-17 01:01:06
End at: 2018-01-17 01:01:36
Local clock offset: -1.534 ms
Remote clock offset: -12.691 ms

# Below is generated by plot.py at 2018-01-17 06:25:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.77 Mbit/s
95th percentile per-packet one-way delay: 35.891 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 58.58 Mbit/s
95th percentile per-packet one-way delay: 35.252 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 39.33 Mbit/s
95th percentile per-packet one-way delay: 37.032 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 31.66 Mbit/s
95th percentile per-packet one-way delay: 37.025 ms
Loss rate: 0.34%
```

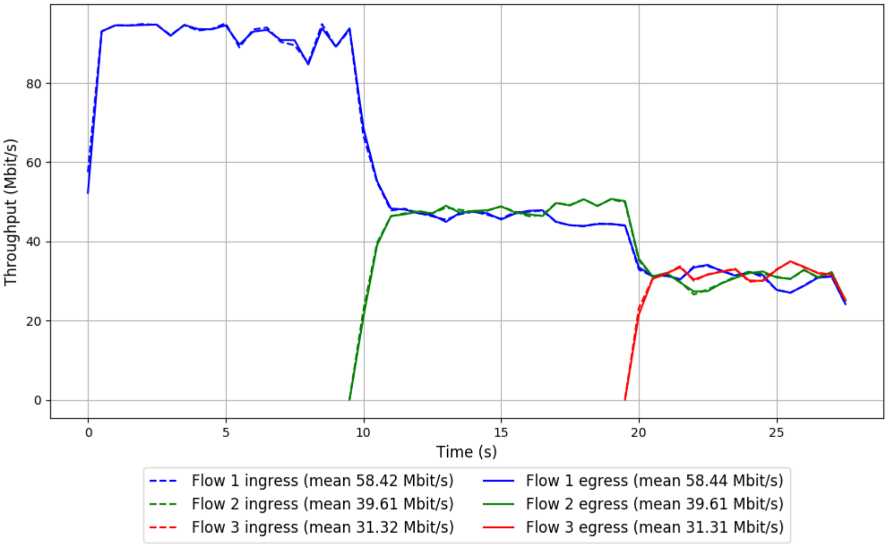
Run 7: Report of Copa — Data Link

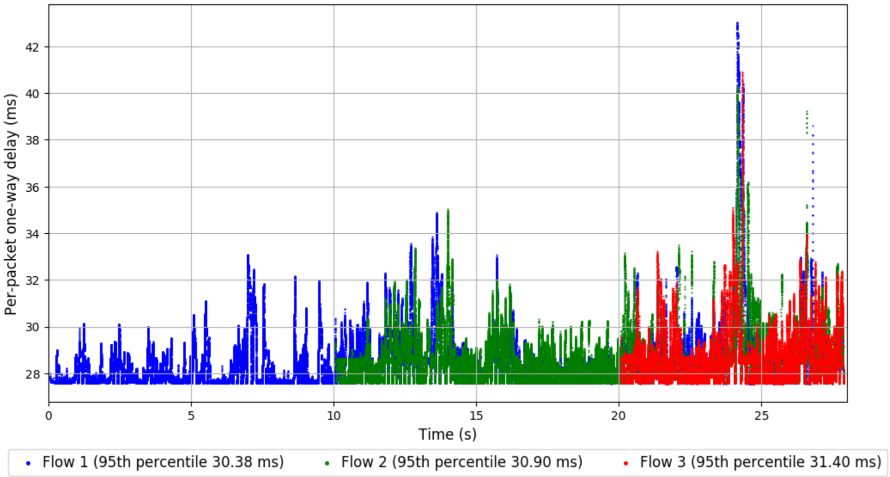




```
Run 8: Statistics of Copa

Start at: 2018-01-17 01:22:24
End at: 2018-01-17 01:22:54
Local clock offset: -6.111 ms
Remote clock offset: -14.043 ms

# Below is generated by plot.py at 2018-01-17 06:25:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.76 Mbit/s
95th percentile per-packet one-way delay: 30.737 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 58.44 Mbit/s
95th percentile per-packet one-way delay: 30.380 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 39.61 Mbit/s
95th percentile per-packet one-way delay: 30.900 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 31.31 Mbit/s
95th percentile per-packet one-way delay: 31.400 ms
Loss rate: 0.33%
```

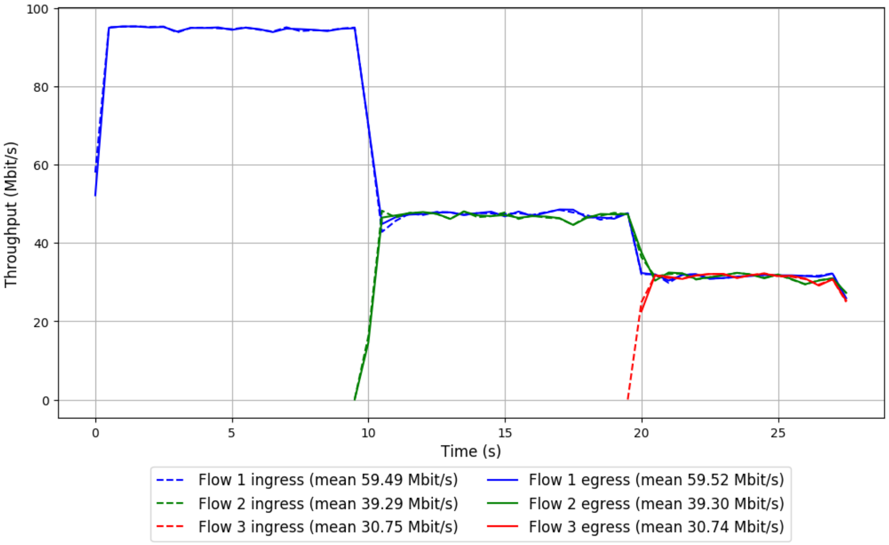
Run 8: Report of Copa — Data Link

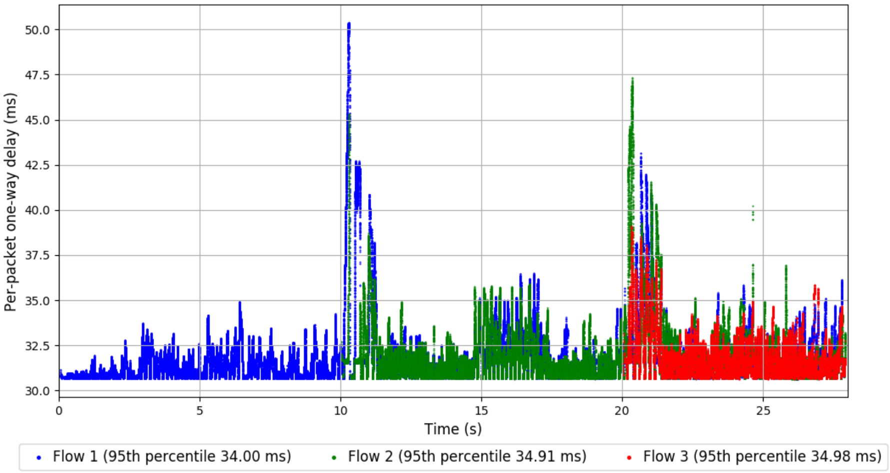




```
Run 9: Statistics of Copa

Start at: 2018-01-17 01:43:38
End at: 2018-01-17 01:44:08
Local clock offset: -4.287 ms
Remote clock offset: -16.872 ms

# Below is generated by plot.py at 2018-01-17 06:26:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.49 Mbit/s
95th percentile per-packet one-way delay: 34.367 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 59.52 Mbit/s
95th percentile per-packet one-way delay: 33.996 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 39.30 Mbit/s
95th percentile per-packet one-way delay: 34.910 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 30.74 Mbit/s
95th percentile per-packet one-way delay: 34.983 ms
Loss rate: 0.32%
```

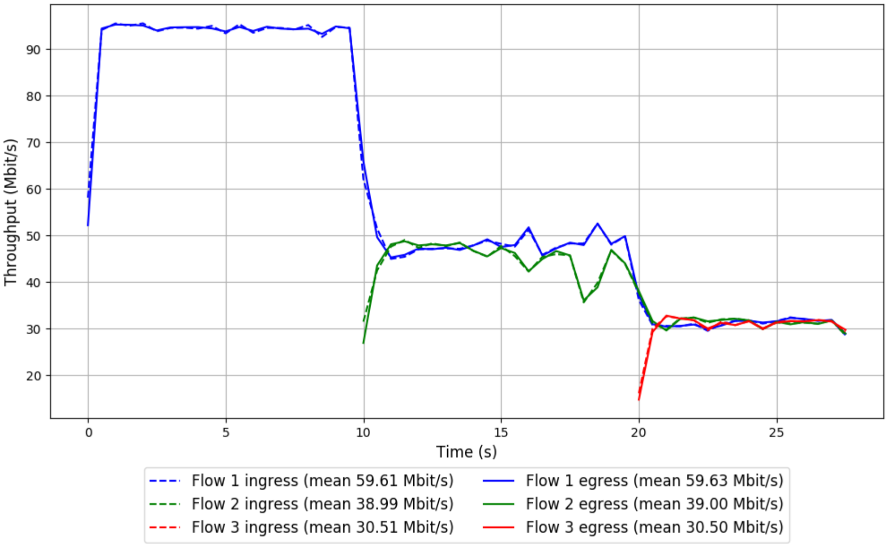
Run 9: Report of Copa — Data Link

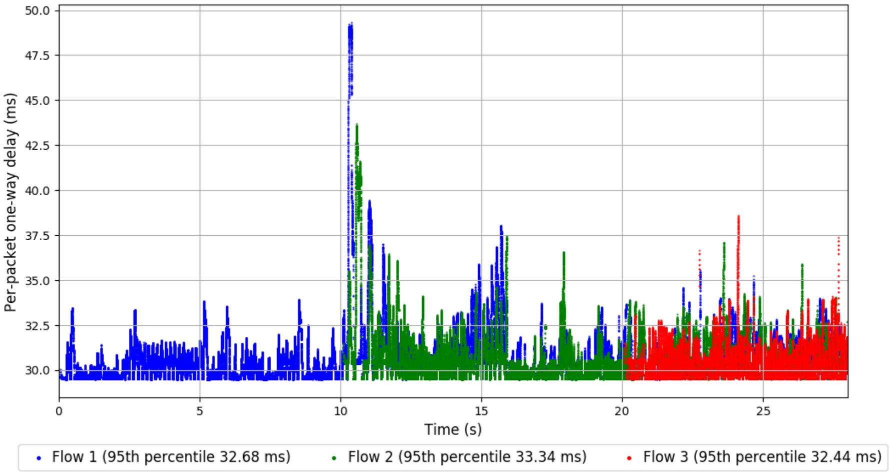




```
Run 10: Statistics of Copa

Start at: 2018-01-17 02:04:53
End at: 2018-01-17 02:05:23
Local clock offset: -4.811 ms
Remote clock offset: -17.8 ms

# Below is generated by plot.py at 2018-01-17 06:27:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.27 Mbit/s
95th percentile per-packet one-way delay: 32.818 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 59.63 Mbit/s
95th percentile per-packet one-way delay: 32.679 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 39.00 Mbit/s
95th percentile per-packet one-way delay: 33.340 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 30.50 Mbit/s
95th percentile per-packet one-way delay: 32.436 ms
Loss rate: 0.34%
```

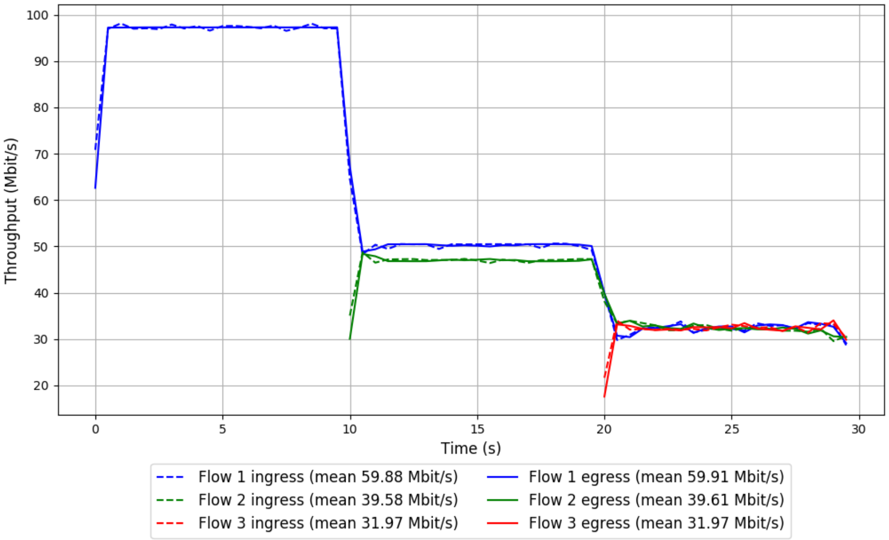
Run 10: Report of Copa — Data Link

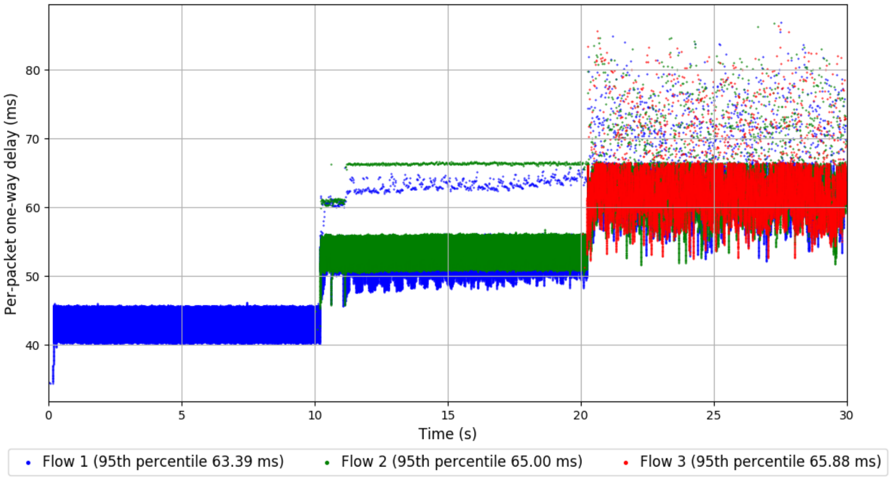




```
Run 1: Statistics of FillP

Start at: 2018-01-16 23:02:11
End at: 2018-01-16 23:02:41
Local clock offset: -1.978 ms
Remote clock offset: -8.738 ms

# Below is generated by plot.py at 2018-01-17 06:27:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.80 Mbit/s
95th percentile per-packet one-way delay: 64.619 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 59.91 Mbit/s
95th percentile per-packet one-way delay: 63.393 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 39.61 Mbit/s
95th percentile per-packet one-way delay: 65.001 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 31.97 Mbit/s
95th percentile per-packet one-way delay: 65.881 ms
Loss rate: 0.62%
```

Run 1: Report of FillP — Data Link





```
Run 2: Statistics of FillP

Start at: 2018-01-16 23:23:35
End at: 2018-01-16 23:24:05
Local clock offset: -2.314 ms
Remote clock offset: -10.193 ms
```

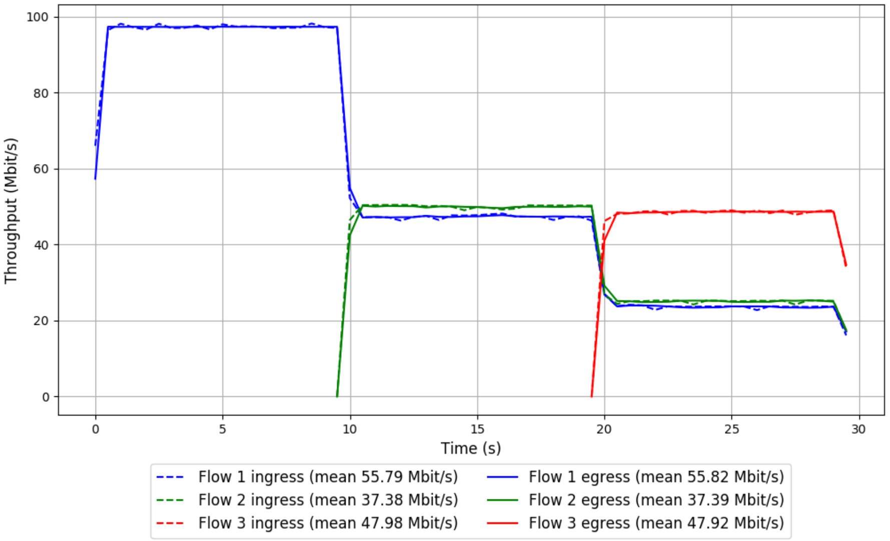
Run 2: Report of FillP — Data Link

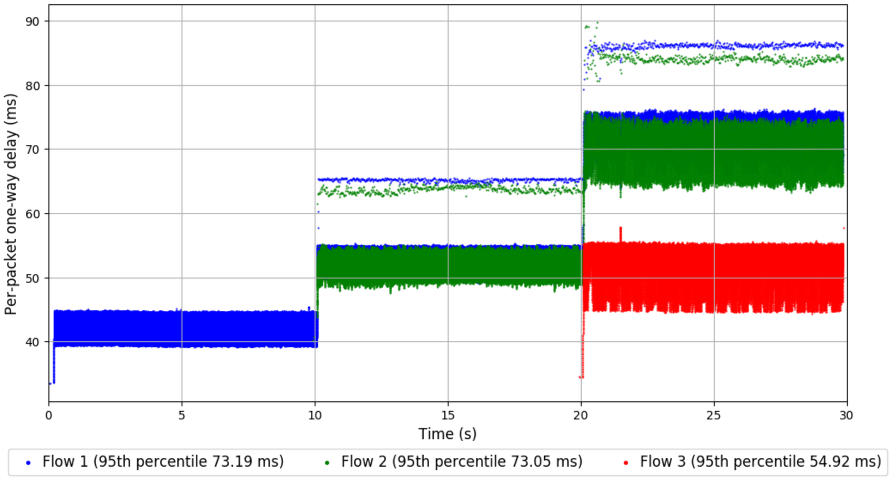
Figure is missing

Figure is missing

```
Run 3: Statistics of FillP

Start at: 2018-01-16 23:44:47
End at: 2018-01-16 23:45:17
Local clock offset: -1.467 ms
Remote clock offset: -8.523 ms

# Below is generated by plot.py at 2018-01-17 06:27:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.70 Mbit/s
95th percentile per-packet one-way delay: 72.642 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 55.82 Mbit/s
95th percentile per-packet one-way delay: 73.192 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 37.39 Mbit/s
95th percentile per-packet one-way delay: 73.052 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 47.92 Mbit/s
95th percentile per-packet one-way delay: 54.918 ms
Loss rate: 0.42%
```

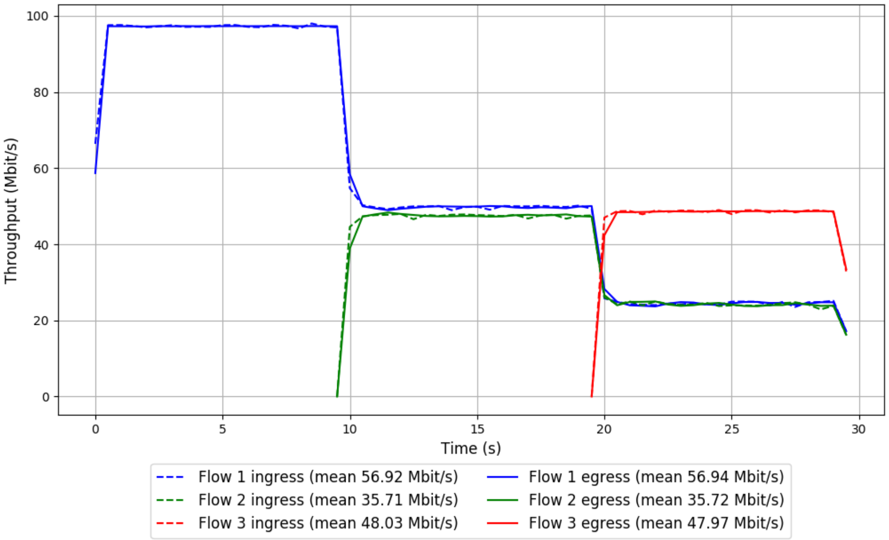
Run 3: Report of FillP — Data Link

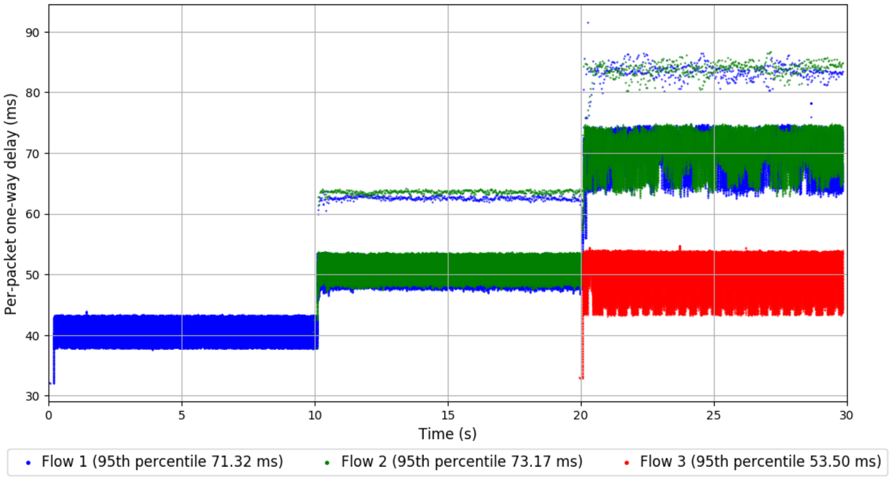




```
Run 4: Statistics of FillP

Start at: 2018-01-17 00:05:50
End at: 2018-01-17 00:06:20
Local clock offset: -4.415 ms
Remote clock offset: -9.934 ms

# Below is generated by plot.py at 2018-01-17 06:27:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.72 Mbit/s
95th percentile per-packet one-way delay: 71.895 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 56.94 Mbit/s
95th percentile per-packet one-way delay: 71.324 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 35.72 Mbit/s
95th percentile per-packet one-way delay: 73.166 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 47.97 Mbit/s
95th percentile per-packet one-way delay: 53.504 ms
Loss rate: 0.45%
```

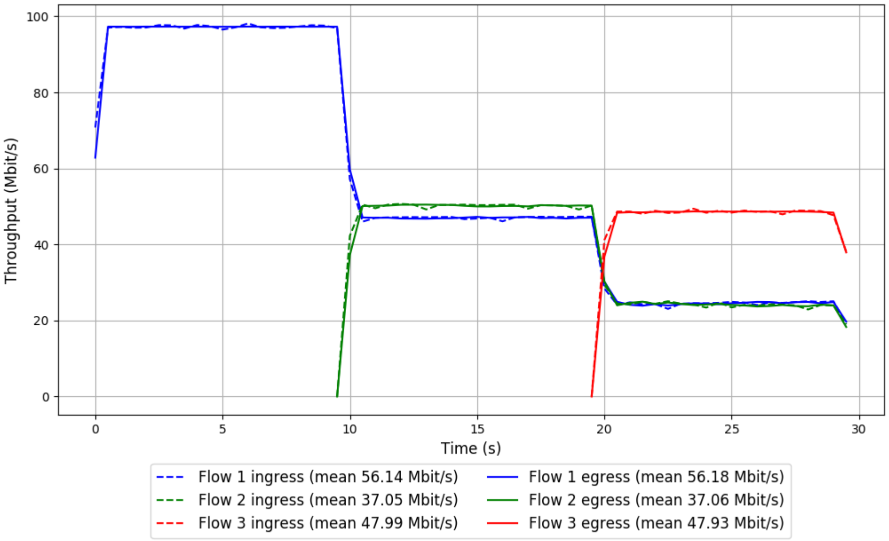
Run 4: Report of FillP — Data Link

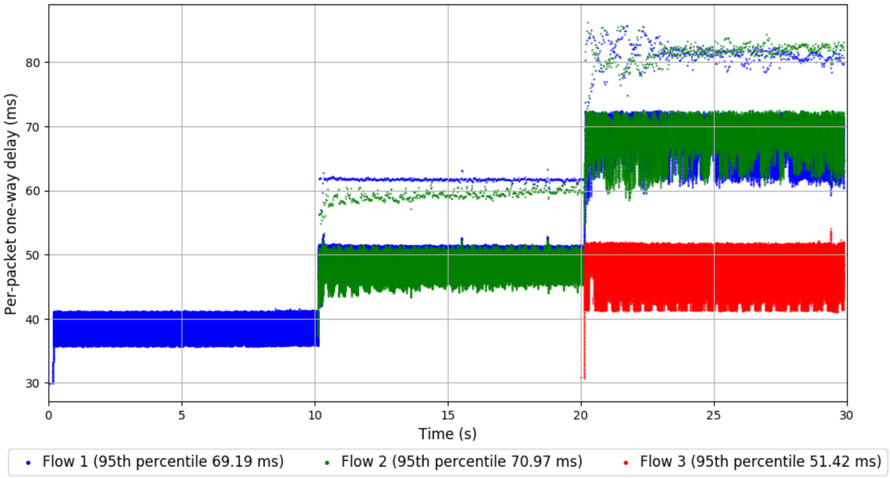




```
Run 5: Statistics of FillP

Start at: 2018-01-17 00:27:12
End at: 2018-01-17 00:27:42
Local clock offset: -4.315 ms
Remote clock offset: -9.347 ms

# Below is generated by plot.py at 2018-01-17 06:27:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.76 Mbit/s
95th percentile per-packet one-way delay: 69.713 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 56.18 Mbit/s
95th percentile per-packet one-way delay: 69.192 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 37.06 Mbit/s
95th percentile per-packet one-way delay: 70.973 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 47.93 Mbit/s
95th percentile per-packet one-way delay: 51.424 ms
Loss rate: 0.46%
```

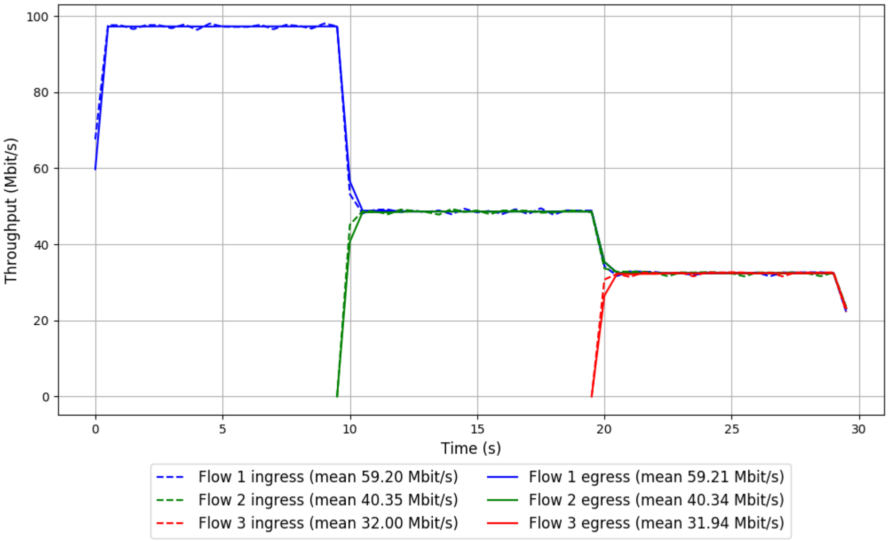
Run 5: Report of FillP — Data Link

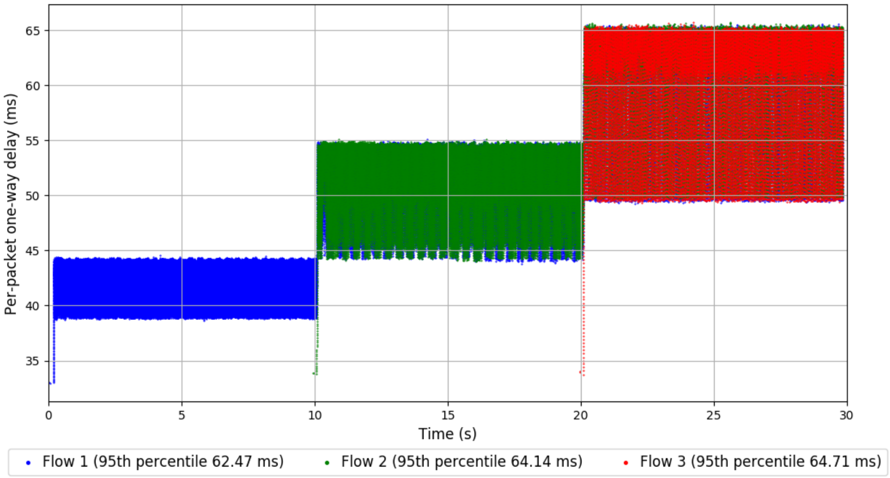




```
Run 6: Statistics of FillP

Start at: 2018-01-17 00:48:20
End at: 2018-01-17 00:48:50
Local clock offset: -2.11 ms
Remote clock offset: -11.592 ms

# Below is generated by plot.py at 2018-01-17 06:27:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.74 Mbit/s
95th percentile per-packet one-way delay: 63.795 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 59.21 Mbit/s
95th percentile per-packet one-way delay: 62.470 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 40.34 Mbit/s
95th percentile per-packet one-way delay: 64.140 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 31.94 Mbit/s
95th percentile per-packet one-way delay: 64.711 ms
Loss rate: 0.49%
```

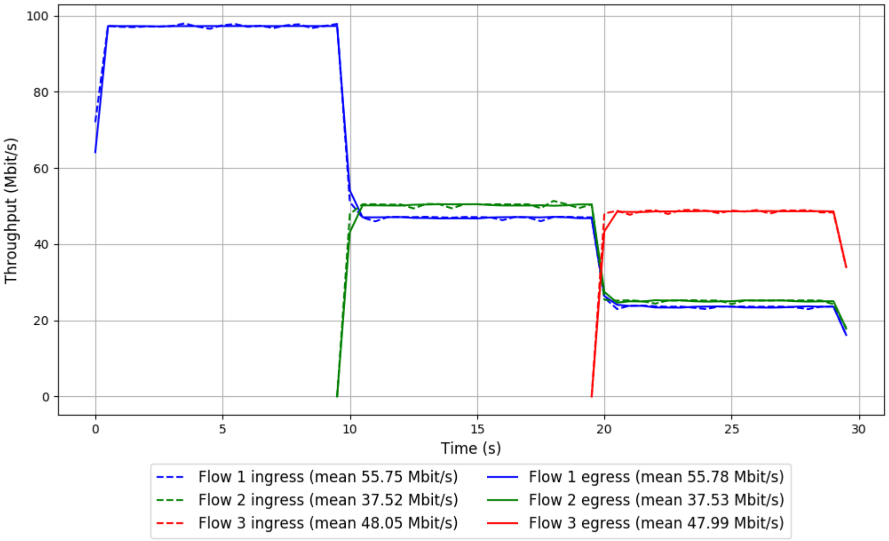
Run 6: Report of FillP — Data Link

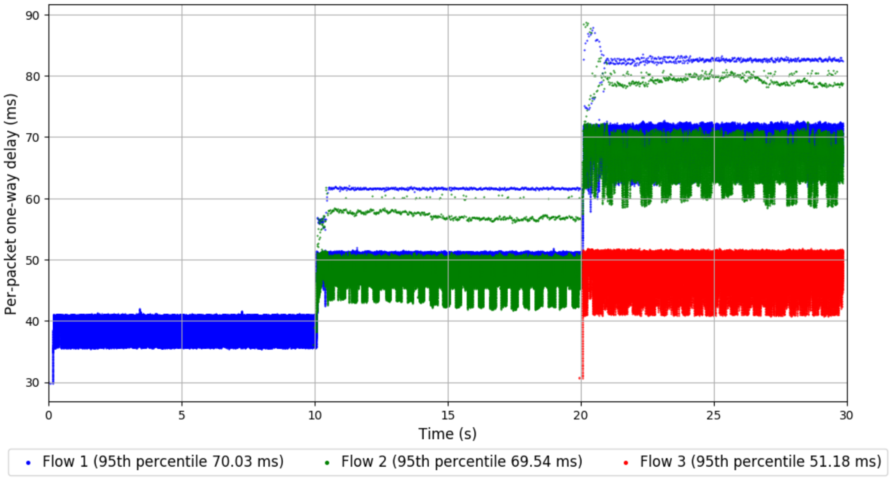




```
Run 7: Statistics of FillP

Start at: 2018-01-17 01:09:31
End at: 2018-01-17 01:10:01
Local clock offset: -5.605 ms
Remote clock offset: -14.648 ms

# Below is generated by plot.py at 2018-01-17 06:27:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.81 Mbit/s
95th percentile per-packet one-way delay: 69.383 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 55.78 Mbit/s
95th percentile per-packet one-way delay: 70.030 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 37.53 Mbit/s
95th percentile per-packet one-way delay: 69.544 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 47.99 Mbit/s
95th percentile per-packet one-way delay: 51.183 ms
Loss rate: 0.44%
```

Run 7: Report of FillP — Data Link





```
Run 8: Statistics of FillP

Start at: 2018-01-17 01:30:43
End at: 2018-01-17 01:31:13
Local clock offset: -3.284 ms
Remote clock offset: -14.193 ms
```

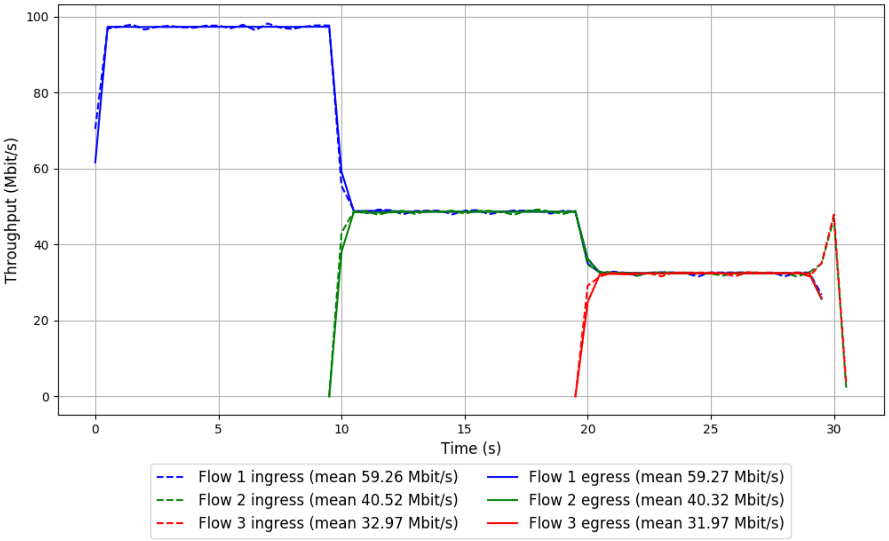
Run 8: Report of FillP — Data Link

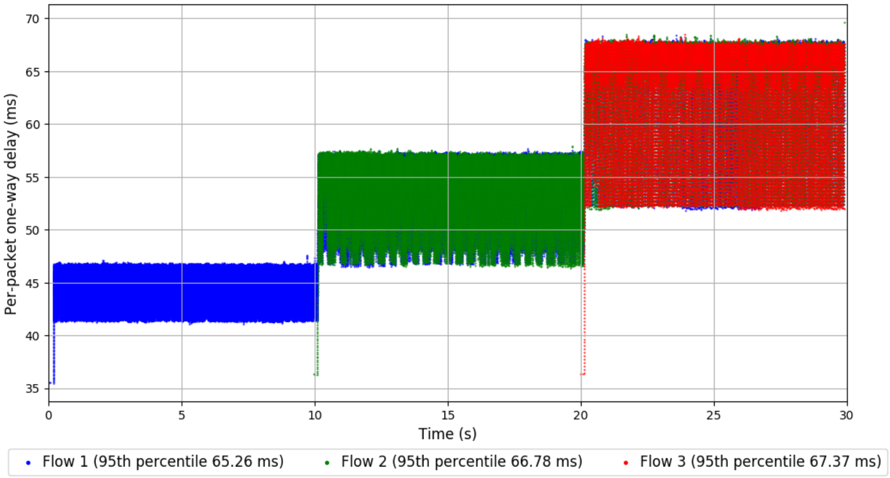
Figure is missing

Figure is missing

```
Run 9: Statistics of FillP

Start at: 2018-01-17 01:51:54
End at: 2018-01-17 01:52:24
Local clock offset: -0.817 ms
Remote clock offset: -19.059 ms

# Below is generated by plot.py at 2018-01-17 06:27:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.77 Mbit/s
95th percentile per-packet one-way delay: 66.530 ms
Loss rate: 2.22%
-- Flow 1:
Average throughput: 59.27 Mbit/s
95th percentile per-packet one-way delay: 65.264 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 40.32 Mbit/s
95th percentile per-packet one-way delay: 66.781 ms
Loss rate: 3.72%
-- Flow 3:
Average throughput: 31.97 Mbit/s
95th percentile per-packet one-way delay: 67.368 ms
Loss rate: 9.16%
```

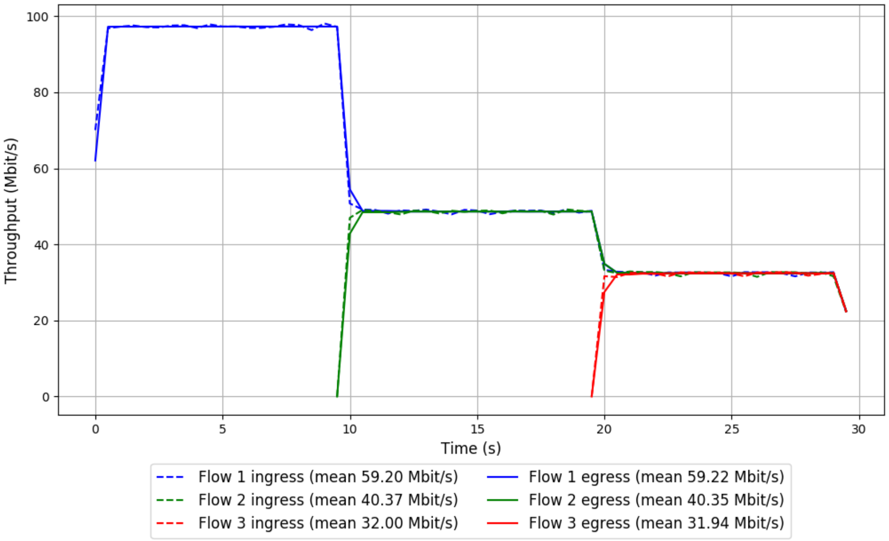
Run 9: Report of FillP — Data Link

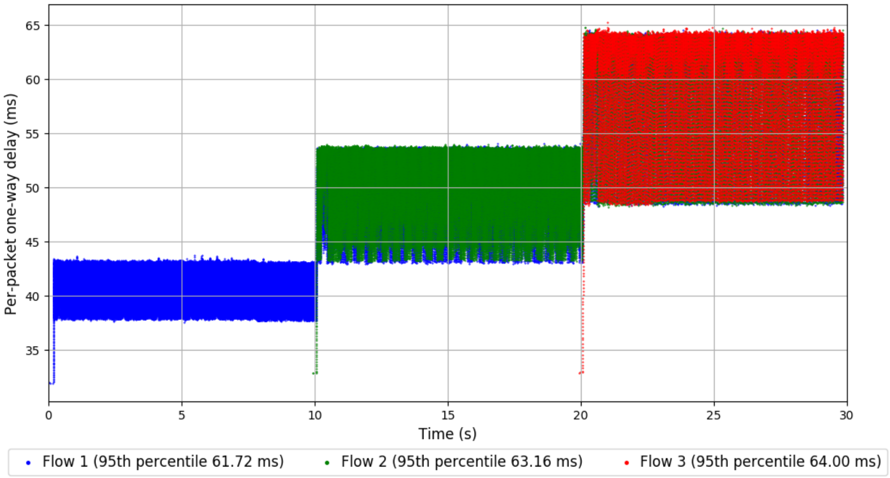




```
Run 10: Statistics of FillP

Start at: 2018-01-17 02:13:20
End at: 2018-01-17 02:13:50
Local clock offset: -3.274 ms
Remote clock offset: -18.804 ms

# Below is generated by plot.py at 2018-01-17 06:27:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.78 Mbit/s
95th percentile per-packet one-way delay: 63.025 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 59.22 Mbit/s
95th percentile per-packet one-way delay: 61.718 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 40.35 Mbit/s
95th percentile per-packet one-way delay: 63.162 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 31.94 Mbit/s
95th percentile per-packet one-way delay: 64.001 ms
Loss rate: 0.52%
```

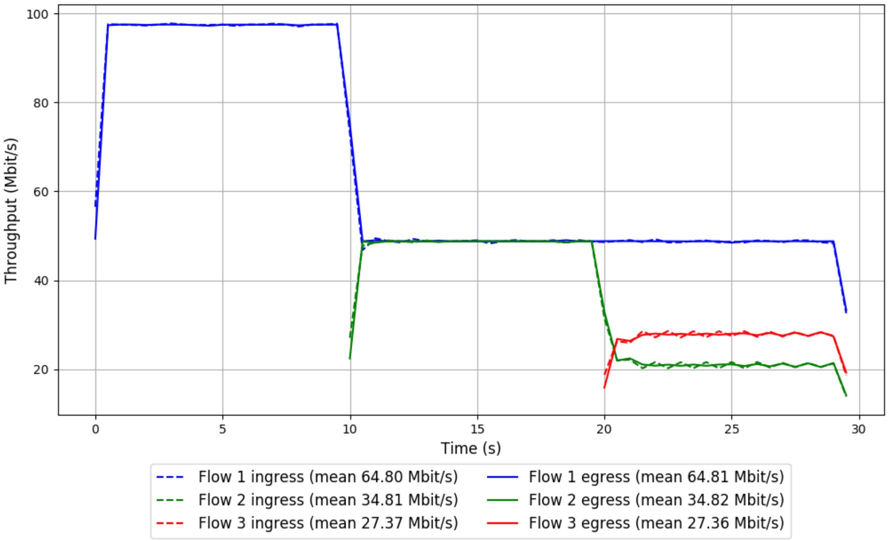
Run 10: Report of FillP — Data Link

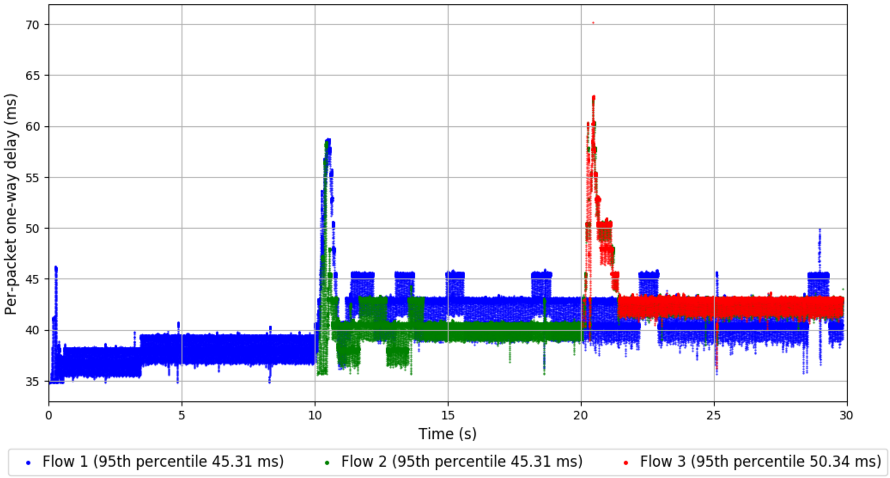




```
Run 1: Statistics of Indigo

Start at: 2018-01-16 22:55:08
End at: 2018-01-16 22:55:38
Local clock offset: -1.435 ms
Remote clock offset: -8.386 ms

# Below is generated by plot.py at 2018-01-17 06:27:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.81 Mbit/s
95th percentile per-packet one-way delay: 45.370 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 64.81 Mbit/s
95th percentile per-packet one-way delay: 45.314 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 34.82 Mbit/s
95th percentile per-packet one-way delay: 45.310 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 27.36 Mbit/s
95th percentile per-packet one-way delay: 50.340 ms
Loss rate: 0.36%
```

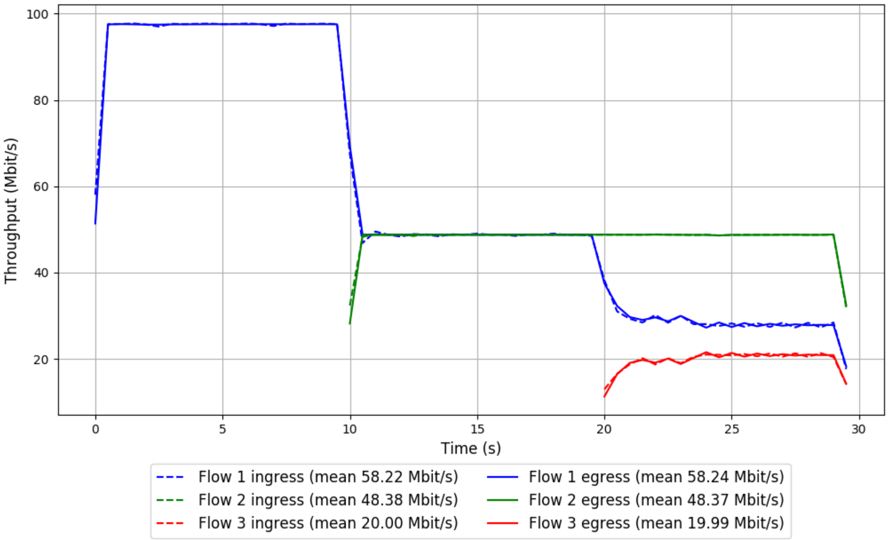
Run 1: Report of Indigo — Data Link

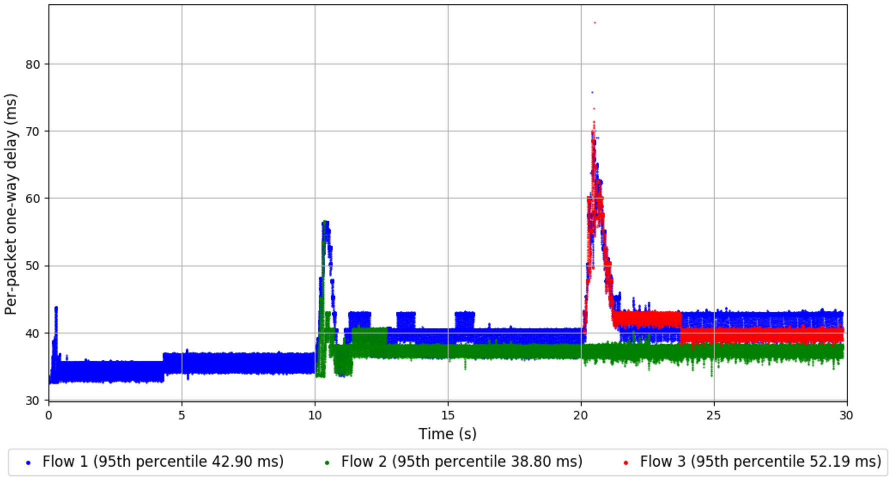




```
Run 2: Statistics of Indigo

Start at: 2018-01-16 23:16:26
End at: 2018-01-16 23:16:56
Local clock offset: -4.298 ms
Remote clock offset: -9.05 ms

# Below is generated by plot.py at 2018-01-17 06:28:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.85 Mbit/s
95th percentile per-packet one-way delay: 42.857 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 58.24 Mbit/s
95th percentile per-packet one-way delay: 42.904 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 48.37 Mbit/s
95th percentile per-packet one-way delay: 38.796 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 19.99 Mbit/s
95th percentile per-packet one-way delay: 52.191 ms
Loss rate: 0.36%
```

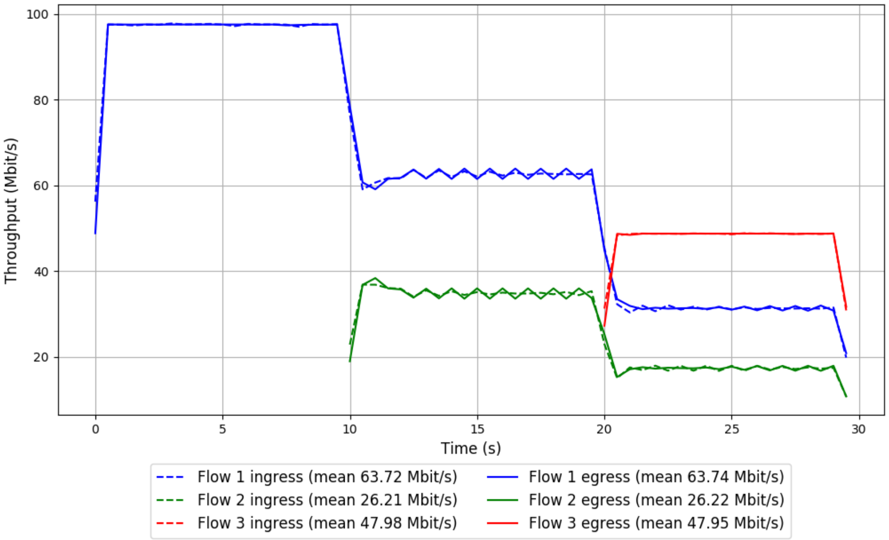
Run 2: Report of Indigo — Data Link

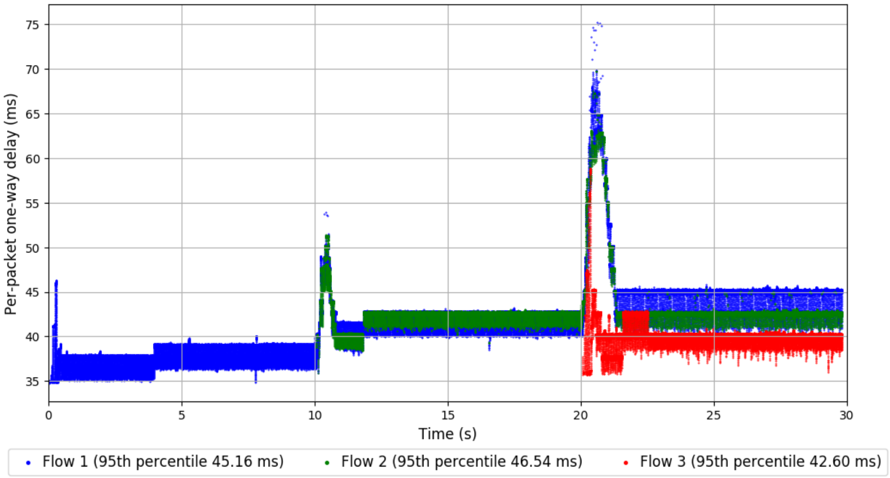




```
Run 3: Statistics of Indigo

Start at: 2018-01-16 23:37:43
End at: 2018-01-16 23:38:13
Local clock offset: -1.12 ms
Remote clock offset: -9.16 ms

# Below is generated by plot.py at 2018-01-17 06:28:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.82 Mbit/s
95th percentile per-packet one-way delay: 45.112 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 63.74 Mbit/s
95th percentile per-packet one-way delay: 45.160 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 26.22 Mbit/s
95th percentile per-packet one-way delay: 46.542 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 47.95 Mbit/s
95th percentile per-packet one-way delay: 42.596 ms
Loss rate: 0.33%
```

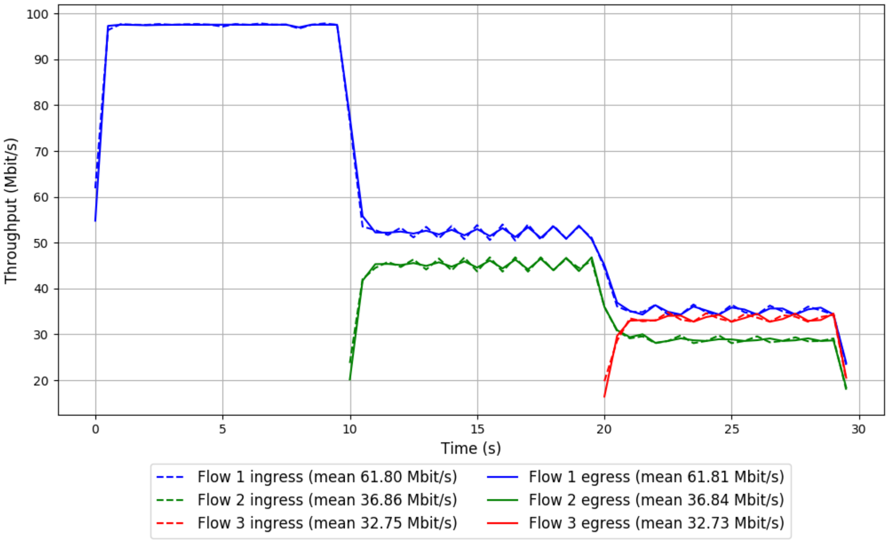
Run 3: Report of Indigo — Data Link

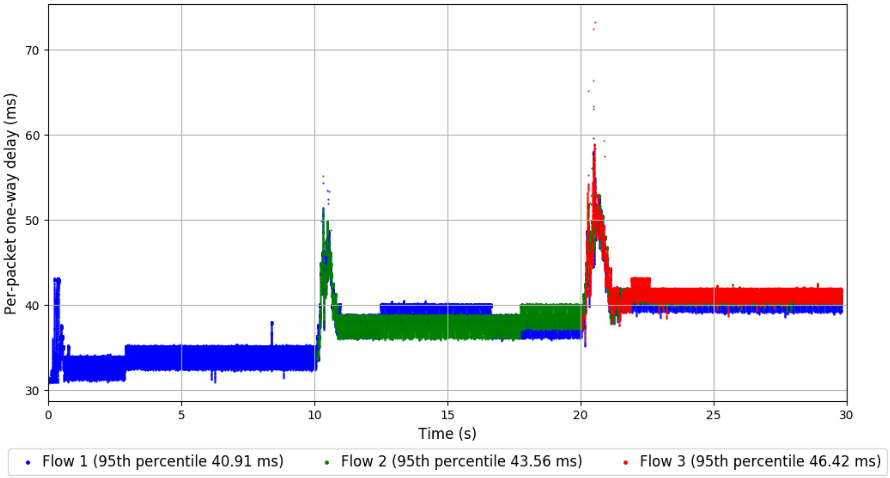




```
Run 4: Statistics of Indigo

Start at: 2018-01-16 23:58:48
End at: 2018-01-16 23:59:18
Local clock offset: -3.809 ms
Remote clock offset: -7.647 ms

# Below is generated by plot.py at 2018-01-17 06:28:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.89 Mbit/s
95th percentile per-packet one-way delay: 42.414 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 61.81 Mbit/s
95th percentile per-packet one-way delay: 40.911 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 36.84 Mbit/s
95th percentile per-packet one-way delay: 43.557 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 32.73 Mbit/s
95th percentile per-packet one-way delay: 46.419 ms
Loss rate: 0.39%
```

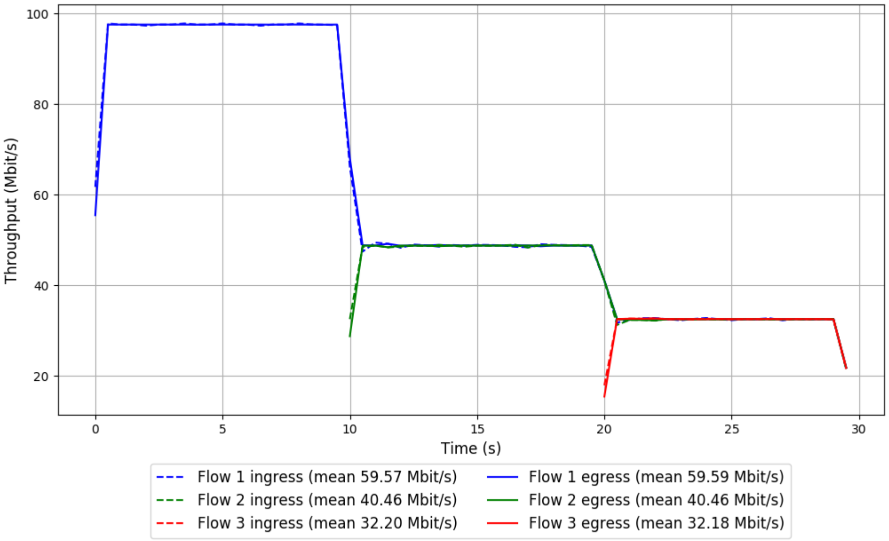
Run 4: Report of Indigo — Data Link

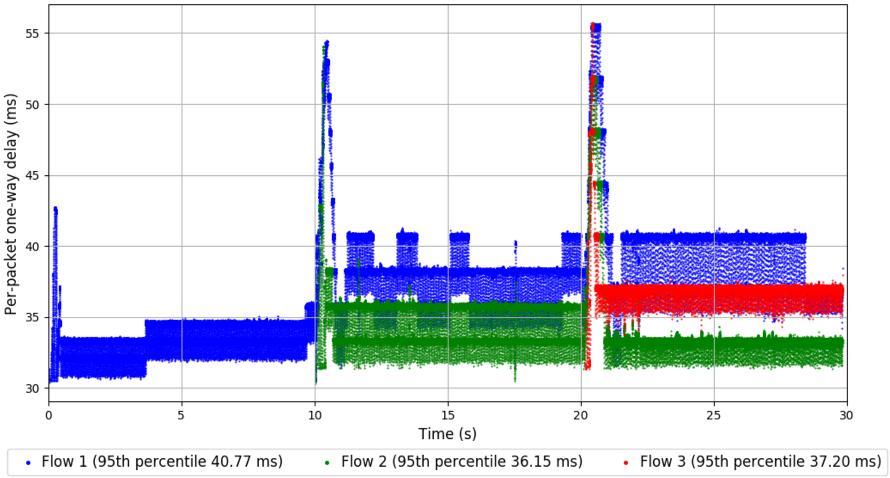




```
Run 5: Statistics of Indigo

Start at: 2018-01-17 00:20:08
End at: 2018-01-17 00:20:38
Local clock offset: -3.873 ms
Remote clock offset: -8.848 ms

# Below is generated by plot.py at 2018-01-17 06:28:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.90 Mbit/s
95th percentile per-packet one-way delay: 40.705 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 59.59 Mbit/s
95th percentile per-packet one-way delay: 40.765 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 40.46 Mbit/s
95th percentile per-packet one-way delay: 36.147 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 32.18 Mbit/s
95th percentile per-packet one-way delay: 37.203 ms
Loss rate: 0.34%
```

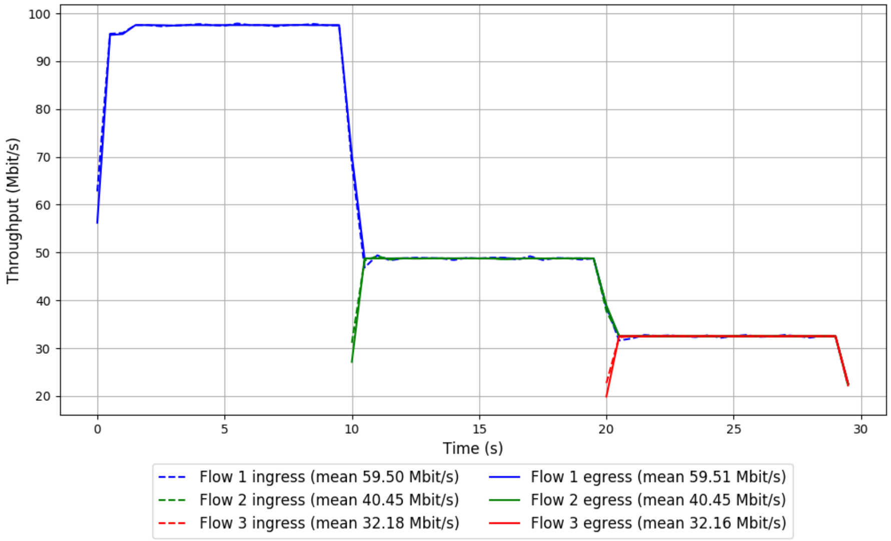
Run 5: Report of Indigo — Data Link

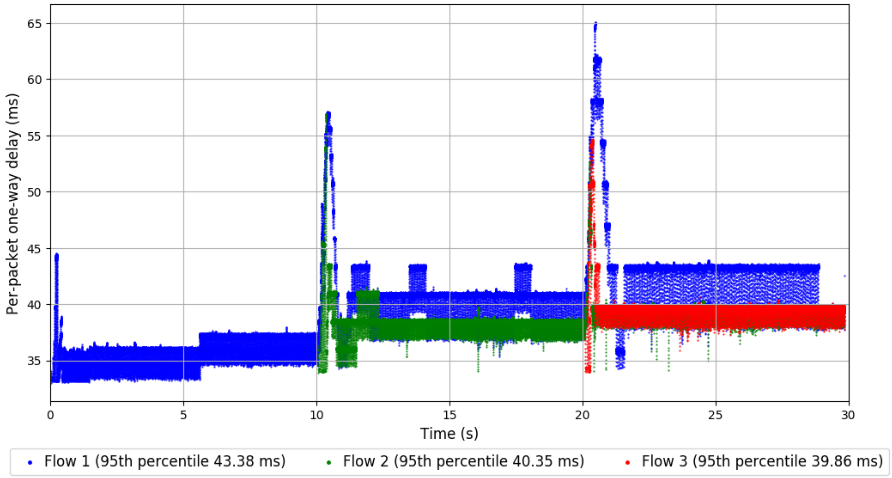




```
Run 6: Statistics of Indigo

Start at: 2018-01-17 00:41:15
End at: 2018-01-17 00:41:45
Local clock offset: -4.133 ms
Remote clock offset: -13.102 ms

# Below is generated by plot.py at 2018-01-17 06:28:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.87 Mbit/s
95th percentile per-packet one-way delay: 43.302 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 59.51 Mbit/s
95th percentile per-packet one-way delay: 43.385 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 40.45 Mbit/s
95th percentile per-packet one-way delay: 40.348 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 32.16 Mbit/s
95th percentile per-packet one-way delay: 39.858 ms
Loss rate: 0.33%
```

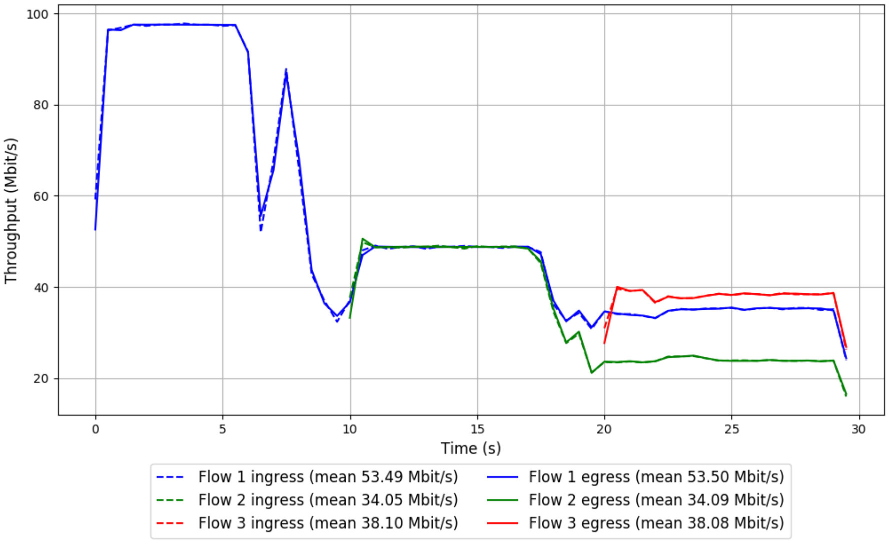
Run 6: Report of Indigo — Data Link

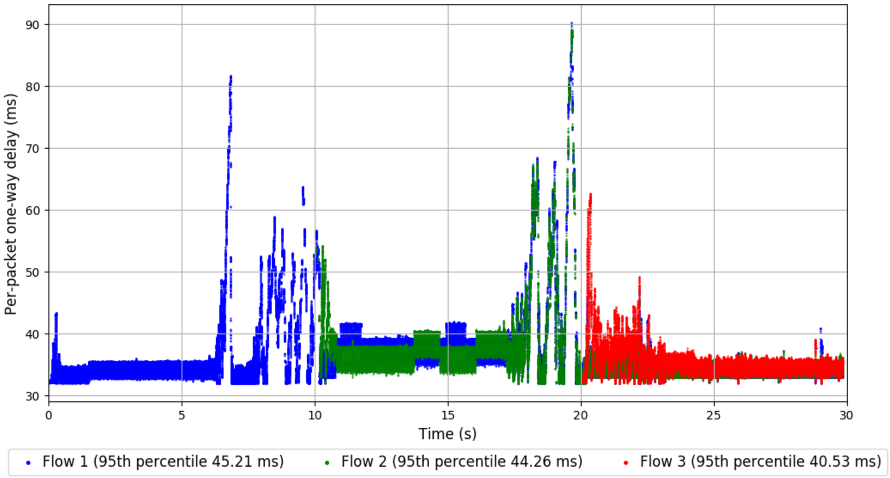




```
Run 7: Statistics of Indigo

Start at: 2018-01-17 01:02:21
End at: 2018-01-17 01:02:51
Local clock offset: -2.848 ms
Remote clock offset: -13.686 ms

# Below is generated by plot.py at 2018-01-17 06:29:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.59 Mbit/s
95th percentile per-packet one-way delay: 44.177 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 53.50 Mbit/s
95th percentile per-packet one-way delay: 45.214 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 34.09 Mbit/s
95th percentile per-packet one-way delay: 44.261 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 38.08 Mbit/s
95th percentile per-packet one-way delay: 40.535 ms
Loss rate: 0.28%
```

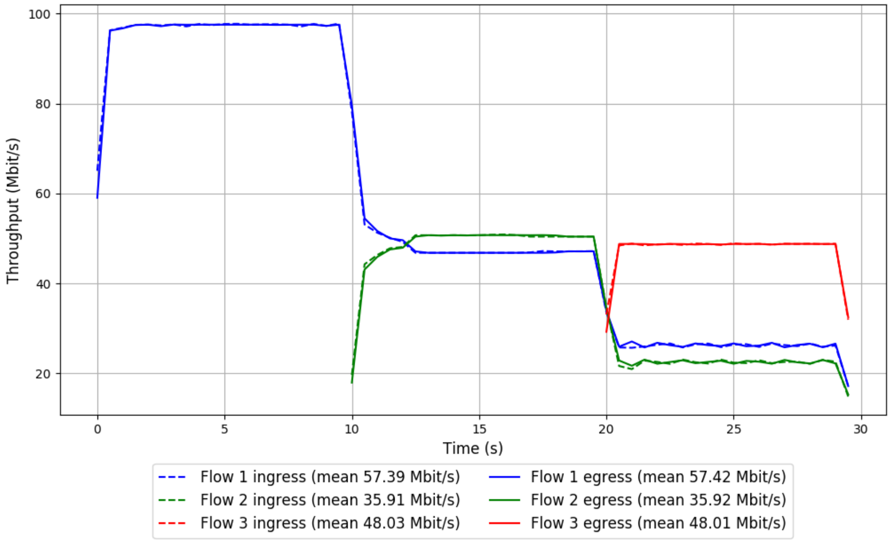
Run 7: Report of Indigo — Data Link

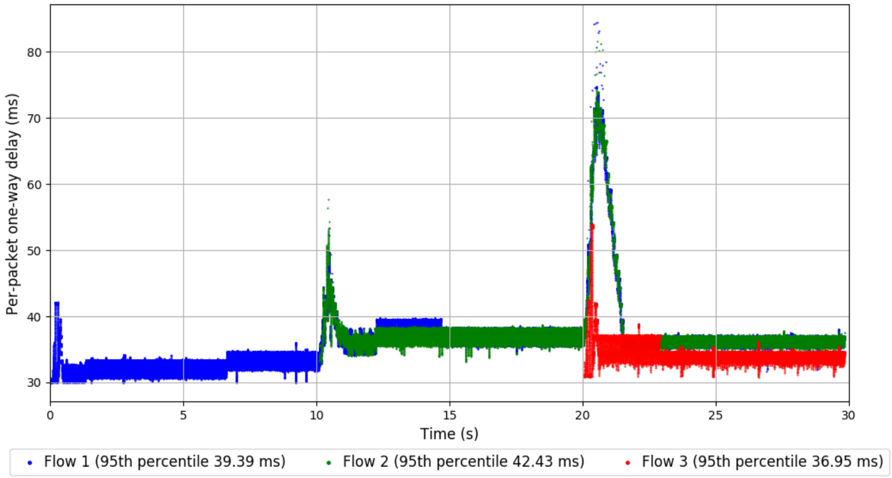




```
Run 8: Statistics of Indigo

Start at: 2018-01-17 01:23:38
End at: 2018-01-17 01:24:08
Local clock offset: -4.293 ms
Remote clock offset: -14.653 ms

# Below is generated by plot.py at 2018-01-17 06:29:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.93 Mbit/s
95th percentile per-packet one-way delay: 39.380 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 57.42 Mbit/s
95th percentile per-packet one-way delay: 39.393 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 35.92 Mbit/s
95th percentile per-packet one-way delay: 42.433 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 48.01 Mbit/s
95th percentile per-packet one-way delay: 36.946 ms
Loss rate: 0.30%
```

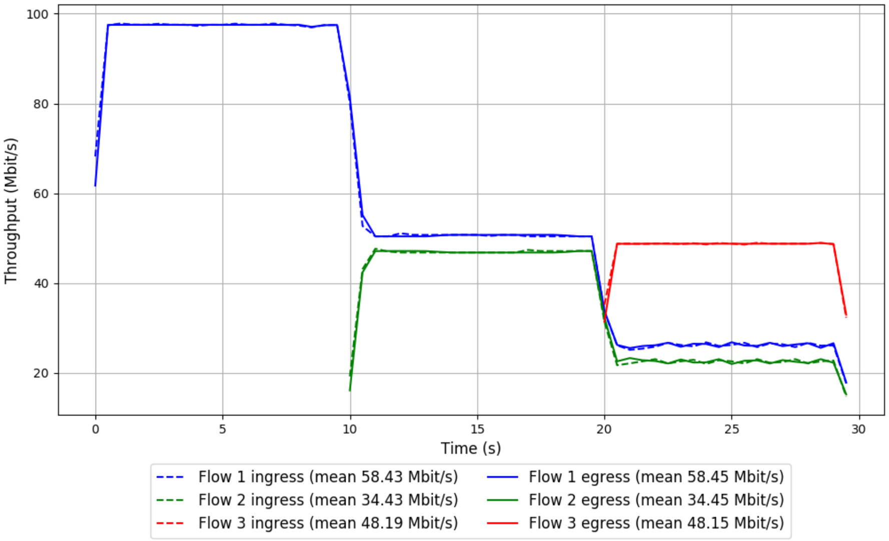
Run 8: Report of Indigo — Data Link

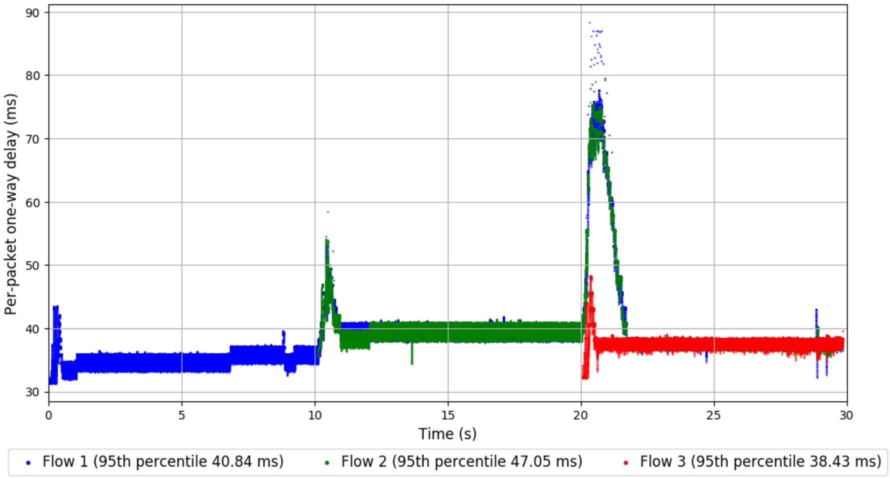




```
Run 9: Statistics of Indigo

Start at: 2018-01-17 01:44:52
End at: 2018-01-17 01:45:22
Local clock offset: -3.439 ms
Remote clock offset: -16.738 ms

# Below is generated by plot.py at 2018-01-17 06:29:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.02 Mbit/s
95th percentile per-packet one-way delay: 41.262 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 58.45 Mbit/s
95th percentile per-packet one-way delay: 40.844 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 34.45 Mbit/s
95th percentile per-packet one-way delay: 47.050 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 48.15 Mbit/s
95th percentile per-packet one-way delay: 38.429 ms
Loss rate: 0.33%
```

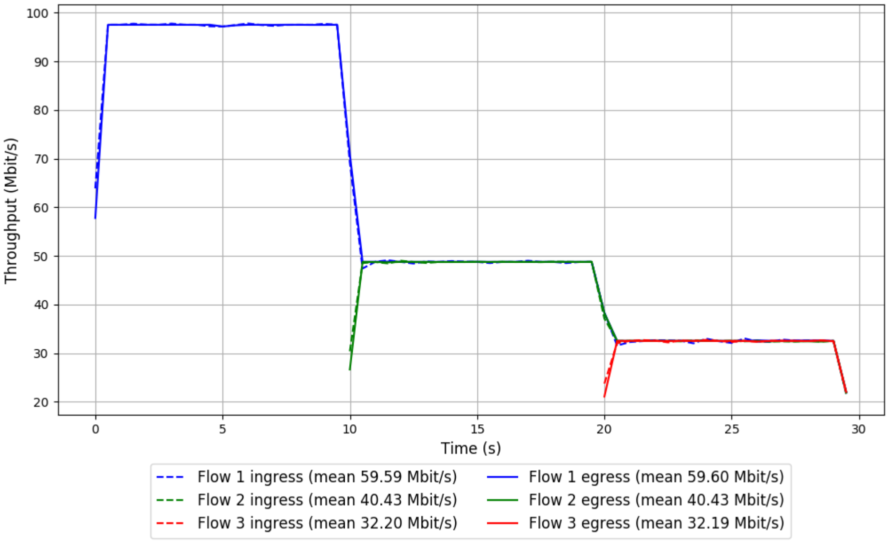
Run 9: Report of Indigo — Data Link

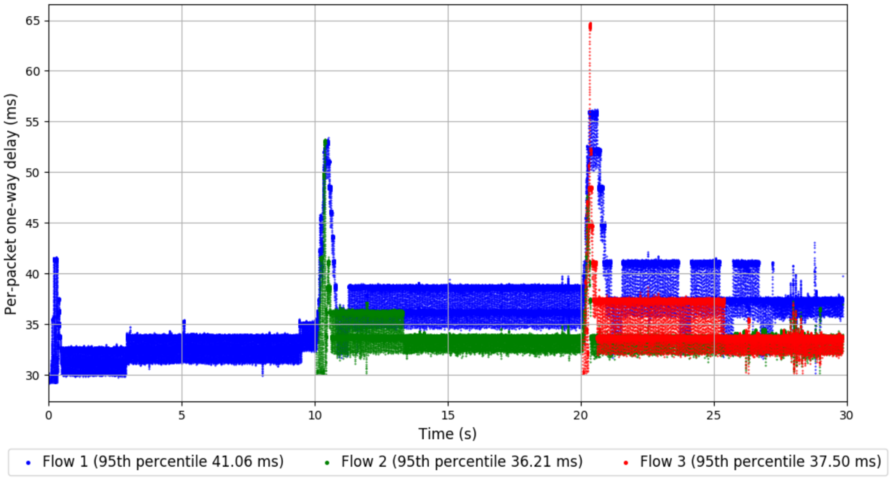




```
Run 10: Statistics of Indigo

Start at: 2018-01-17 02:06:06
End at: 2018-01-17 02:06:36
Local clock offset: -3.619 ms
Remote clock offset: -16.34 ms

# Below is generated by plot.py at 2018-01-17 06:29:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.94 Mbit/s
95th percentile per-packet one-way delay: 39.947 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 59.60 Mbit/s
95th percentile per-packet one-way delay: 41.059 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 40.43 Mbit/s
95th percentile per-packet one-way delay: 36.214 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 32.19 Mbit/s
95th percentile per-packet one-way delay: 37.502 ms
Loss rate: 0.30%
```

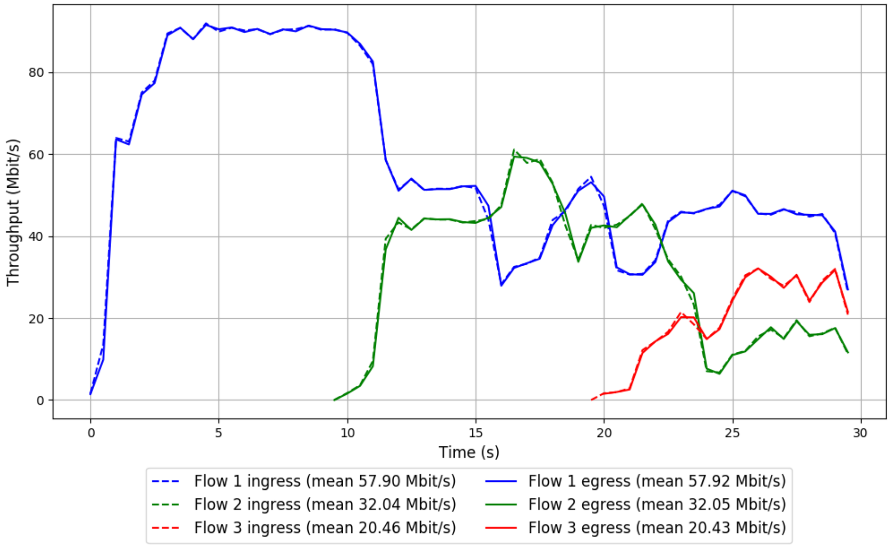
Run 10: Report of Indigo — Data Link

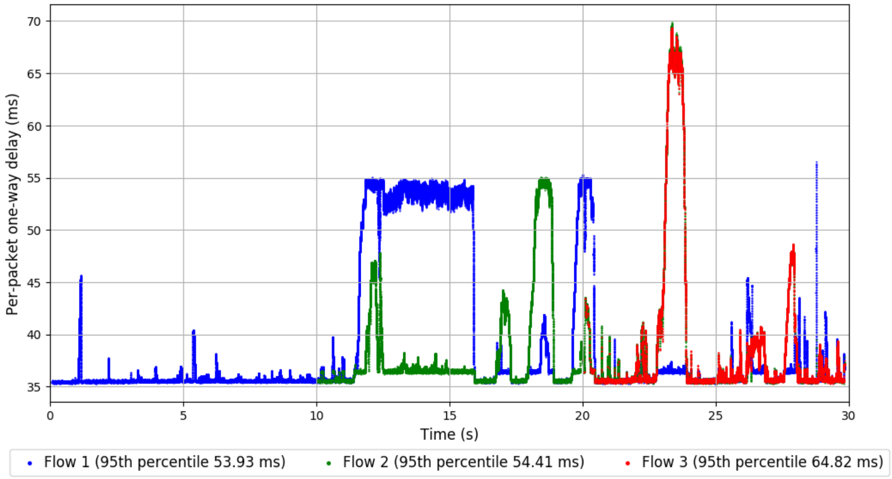




```
Run 1: Statistics of Vivace-latency

Start at: 2018-01-16 22:59:50
End at: 2018-01-16 23:00:20
Local clock offset: -1.279 ms
Remote clock offset: -9.018 ms

# Below is generated by plot.py at 2018-01-17 06:30:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.98 Mbit/s
95th percentile per-packet one-way delay: 54.065 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 57.92 Mbit/s
95th percentile per-packet one-way delay: 53.927 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 32.05 Mbit/s
95th percentile per-packet one-way delay: 54.414 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 20.43 Mbit/s
95th percentile per-packet one-way delay: 64.819 ms
Loss rate: 0.44%
```

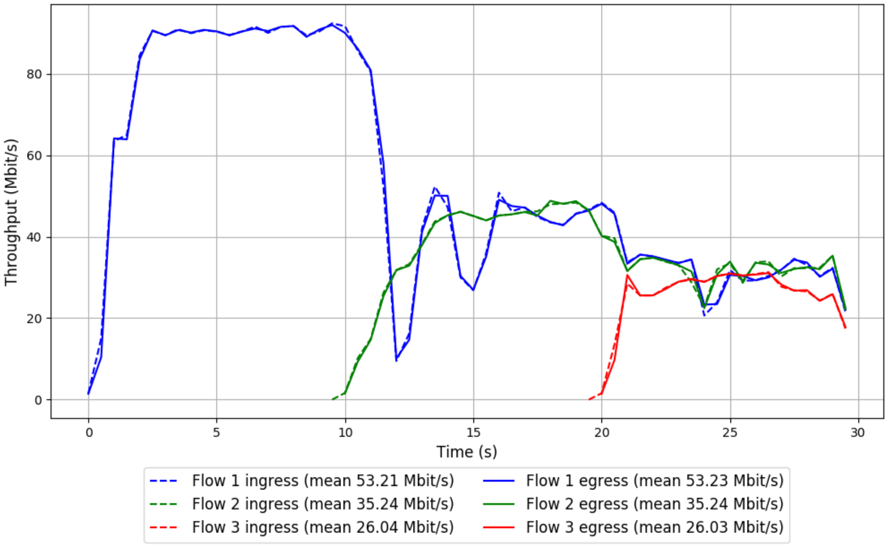
Run 1: Report of Vivace-latency — Data Link

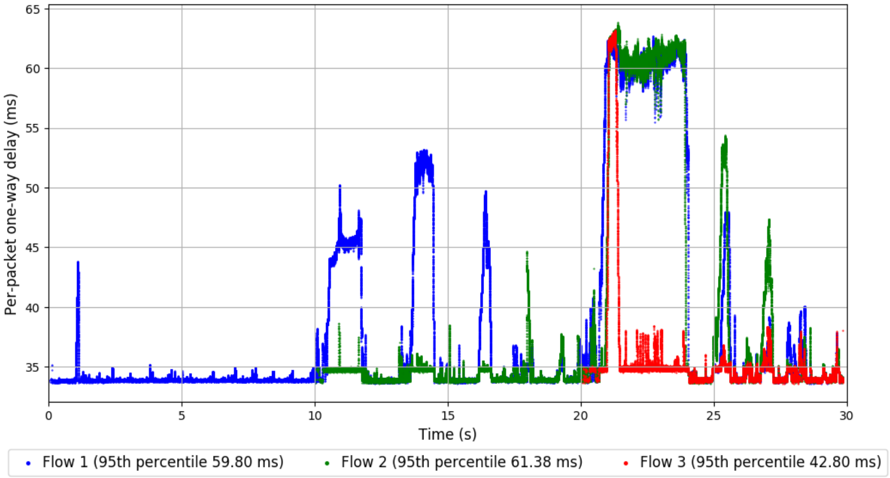




```
Run 2: Statistics of Vivace-latency

Start at: 2018-01-16 23:21:14
End at: 2018-01-16 23:21:44
Local clock offset: -2.352 ms
Remote clock offset: -8.406 ms

# Below is generated by plot.py at 2018-01-17 06:30:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.23 Mbit/s
95th percentile per-packet one-way delay: 60.541 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 53.23 Mbit/s
95th percentile per-packet one-way delay: 59.797 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 35.24 Mbit/s
95th percentile per-packet one-way delay: 61.379 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 26.03 Mbit/s
95th percentile per-packet one-way delay: 42.796 ms
Loss rate: 0.26%
```

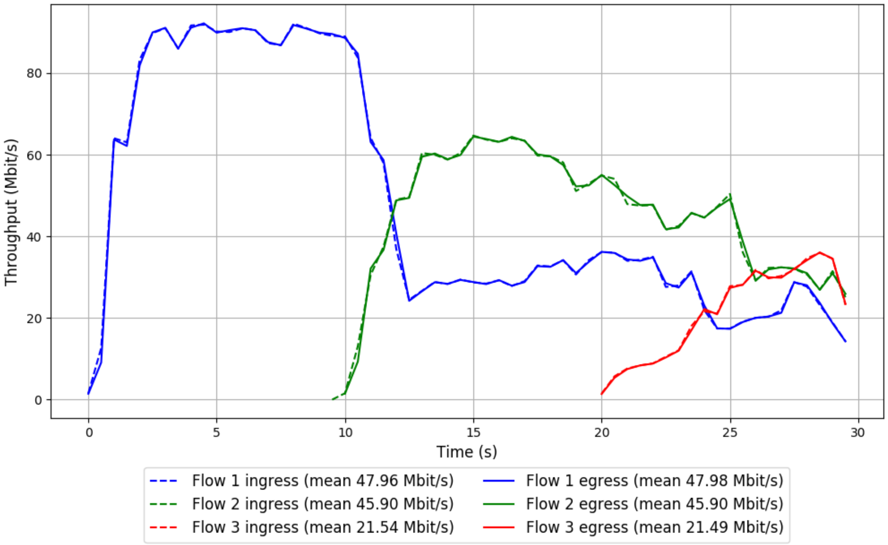
Run 2: Report of Vivace-latency — Data Link

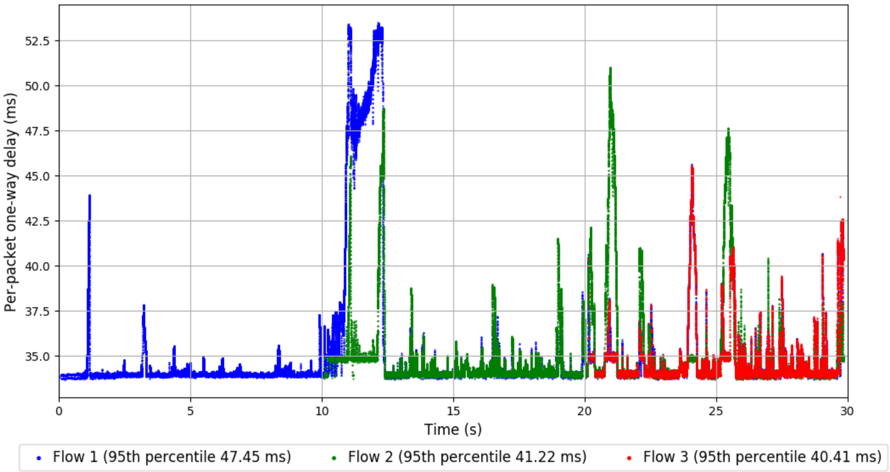




```
Run 3: Statistics of Vivace-latency

Start at: 2018-01-16 23:42:26
End at: 2018-01-16 23:42:56
Local clock offset: -1.815 ms
Remote clock offset: -9.164 ms

# Below is generated by plot.py at 2018-01-17 06:30:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.56 Mbit/s
95th percentile per-packet one-way delay: 42.384 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 47.98 Mbit/s
95th percentile per-packet one-way delay: 47.447 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 45.90 Mbit/s
95th percentile per-packet one-way delay: 41.222 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 21.49 Mbit/s
95th percentile per-packet one-way delay: 40.414 ms
Loss rate: 0.53%
```

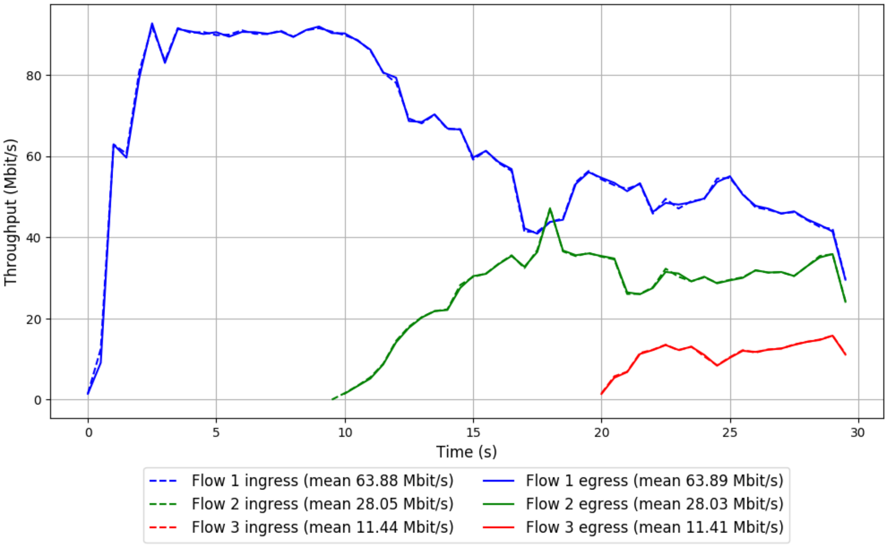
Run 3: Report of Vivace-latency — Data Link

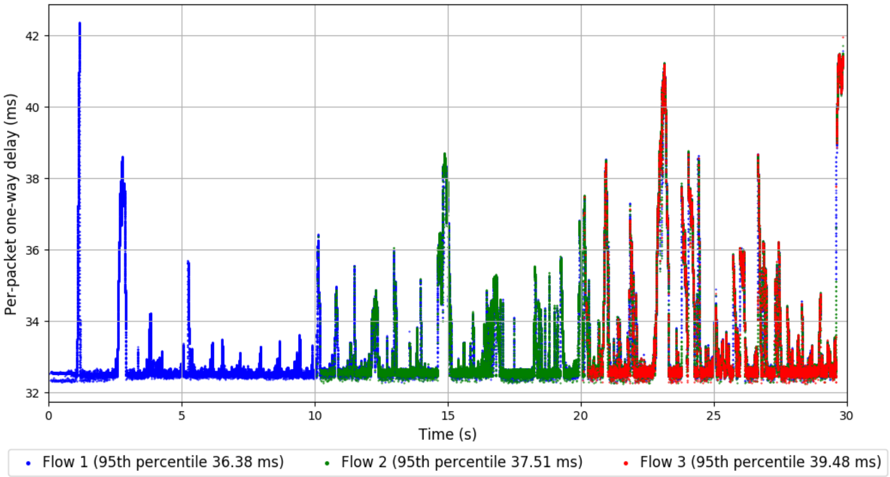




```
Run 4: Statistics of Vivace-latency

Start at: 2018-01-17 00:03:30
End at: 2018-01-17 00:04:00
Local clock offset: -2.472 ms
Remote clock offset: -8.166 ms

# Below is generated by plot.py at 2018-01-17 06:30:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.27 Mbit/s
95th percentile per-packet one-way delay: 36.896 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 63.89 Mbit/s
95th percentile per-packet one-way delay: 36.381 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 28.03 Mbit/s
95th percentile per-packet one-way delay: 37.513 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 11.41 Mbit/s
95th percentile per-packet one-way delay: 39.475 ms
Loss rate: 0.55%
```

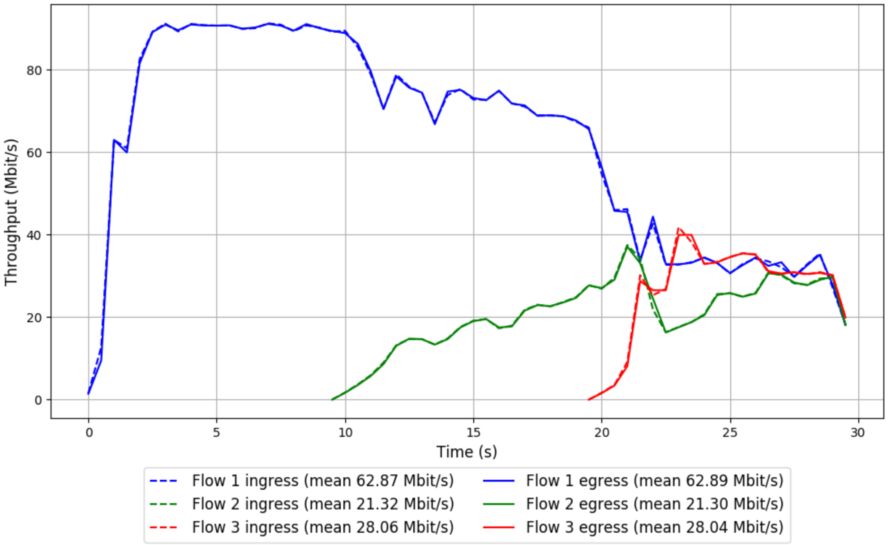
Run 4: Report of Vivace-latency — Data Link

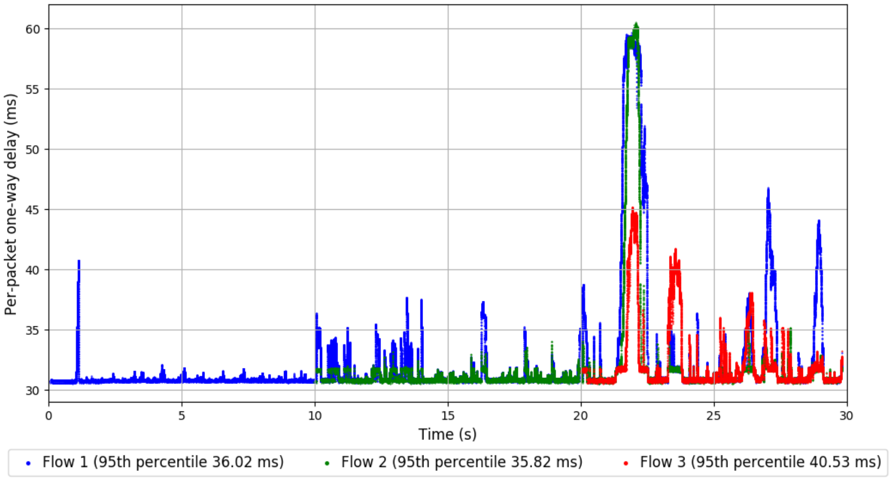




```
Run 5: Statistics of Vivace-latency

Start at: 2018-01-17 00:24:52
End at: 2018-01-17 00:25:22
Local clock offset: -4.802 ms
Remote clock offset: -10.449 ms

# Below is generated by plot.py at 2018-01-17 06:31:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.32 Mbit/s
95th percentile per-packet one-way delay: 36.944 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 62.89 Mbit/s
95th percentile per-packet one-way delay: 36.024 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 21.30 Mbit/s
95th percentile per-packet one-way delay: 35.821 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 28.04 Mbit/s
95th percentile per-packet one-way delay: 40.529 ms
Loss rate: 0.34%
```

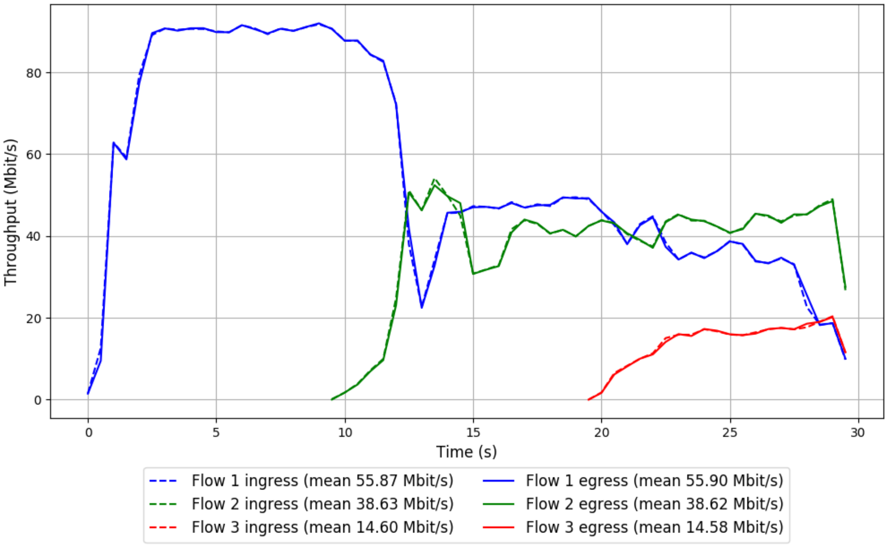
Run 5: Report of Vivace-latency — Data Link

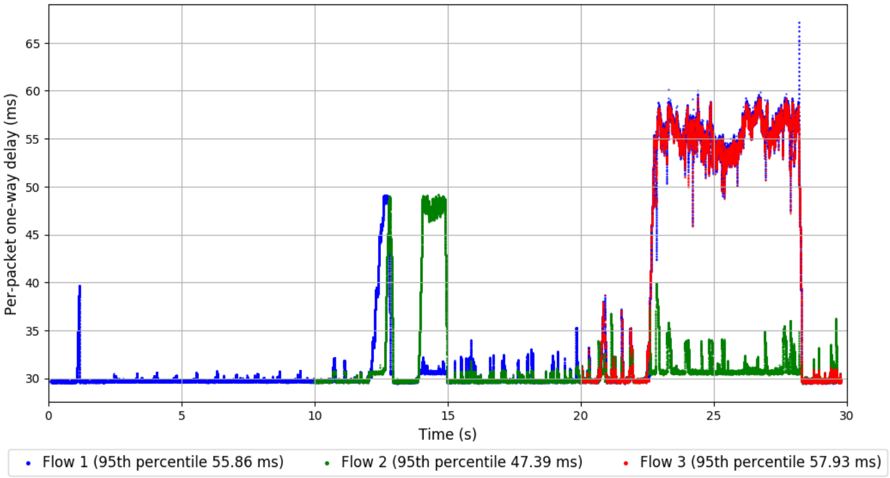




```
Run 6: Statistics of Vivace-latency

Start at: 2018-01-17 00:45:59
End at: 2018-01-17 00:46:29
Local clock offset: -5.835 ms
Remote clock offset: -11.765 ms

# Below is generated by plot.py at 2018-01-17 06:31:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.46 Mbit/s
95th percentile per-packet one-way delay: 55.812 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 55.90 Mbit/s
95th percentile per-packet one-way delay: 55.862 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 38.62 Mbit/s
95th percentile per-packet one-way delay: 47.394 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 14.58 Mbit/s
95th percentile per-packet one-way delay: 57.926 ms
Loss rate: 0.41%
```

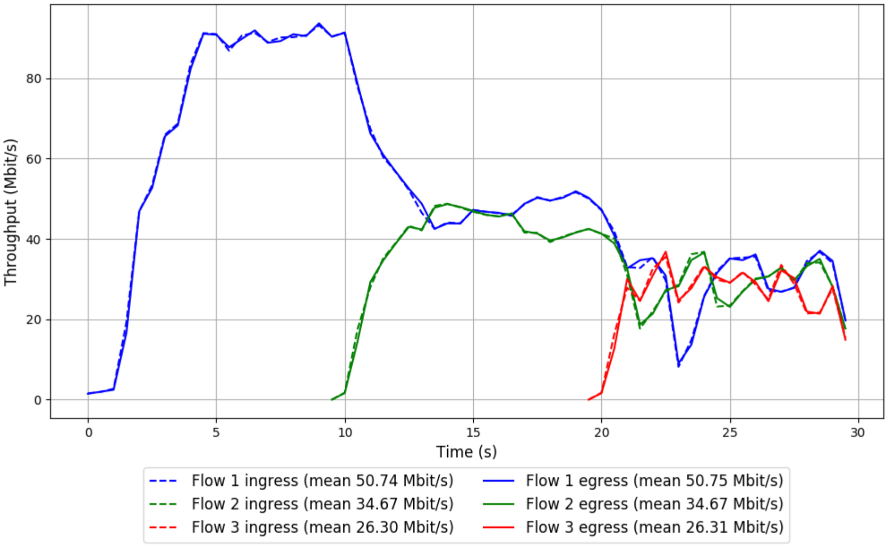
Run 6: Report of Vivace-latency — Data Link

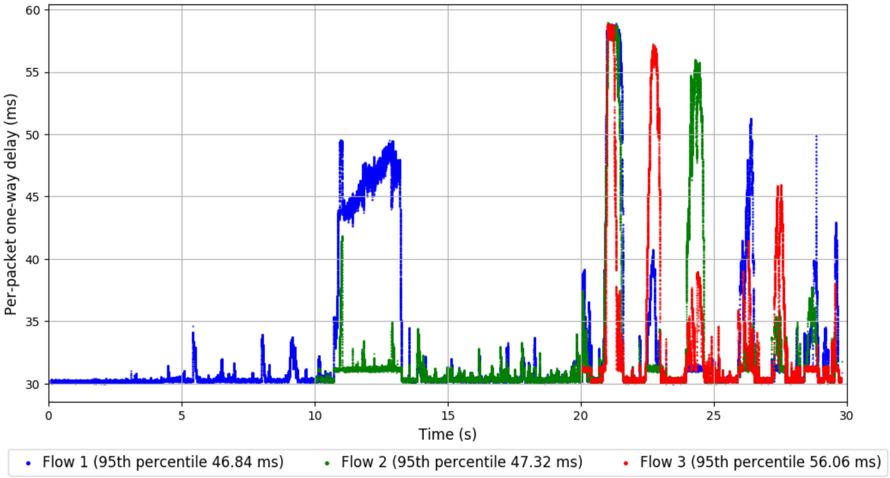




```
Run 7: Statistics of Vivace-latency

Start at: 2018-01-17 01:07:08
End at: 2018-01-17 01:07:38
Local clock offset: -3.543 ms
Remote clock offset: -12.754 ms

# Below is generated by plot.py at 2018-01-17 06:31:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.49 Mbit/s
95th percentile per-packet one-way delay: 47.125 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 50.75 Mbit/s
95th percentile per-packet one-way delay: 46.840 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 34.67 Mbit/s
95th percentile per-packet one-way delay: 47.320 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 26.31 Mbit/s
95th percentile per-packet one-way delay: 56.063 ms
Loss rate: 0.26%
```

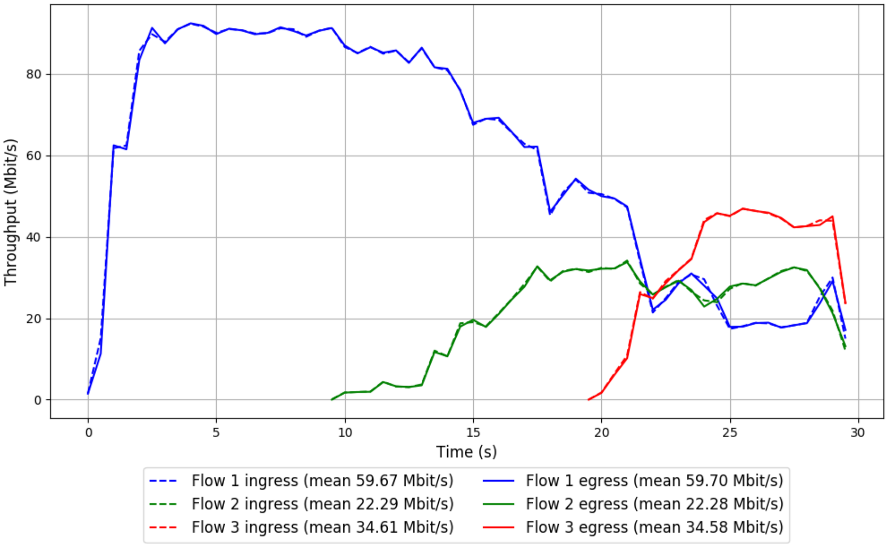
Run 7: Report of Vivace-latency — Data Link

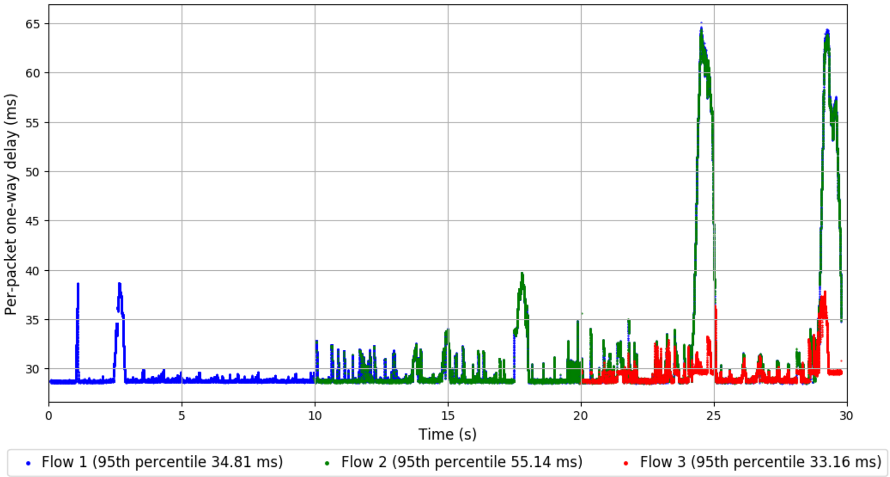




```
Run 8: Statistics of Vivace-latency

Start at: 2018-01-17 01:28:22
End at: 2018-01-17 01:28:52
Local clock offset: -5.726 ms
Remote clock offset: -15.273 ms

# Below is generated by plot.py at 2018-01-17 06:31:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.95 Mbit/s
95th percentile per-packet one-way delay: 36.236 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 59.70 Mbit/s
95th percentile per-packet one-way delay: 34.811 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 22.28 Mbit/s
95th percentile per-packet one-way delay: 55.142 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 34.58 Mbit/s
95th percentile per-packet one-way delay: 33.163 ms
Loss rate: 0.32%
```

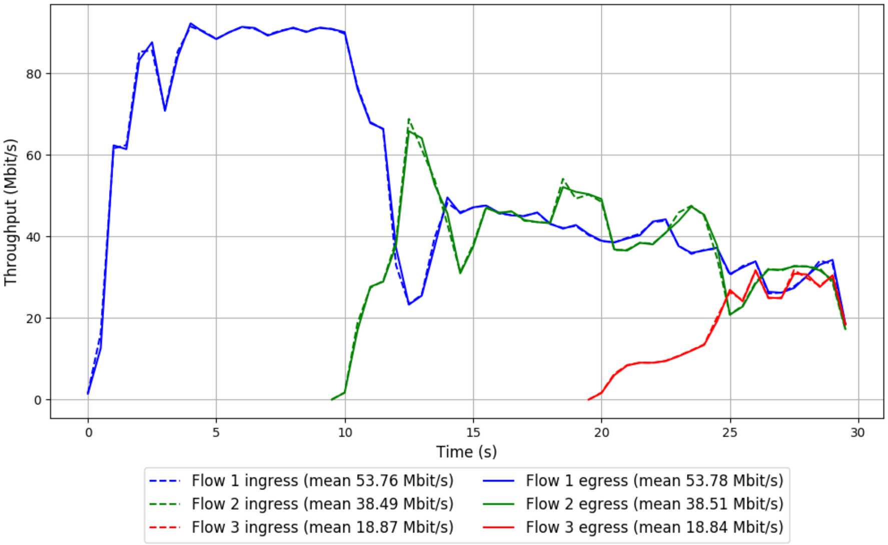
Run 8: Report of Vivace-latency — Data Link

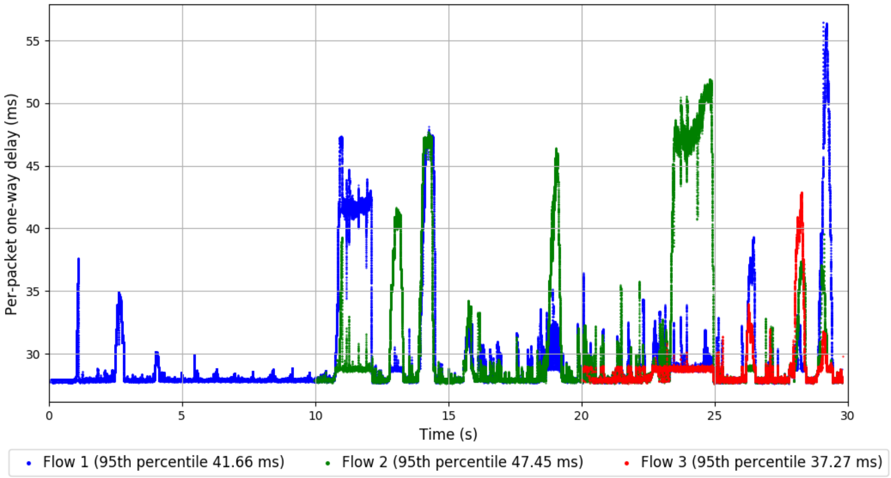




```
Run 9: Statistics of Vivace-latency

Start at: 2018-01-17 01:49:33
End at: 2018-01-17 01:50:03
Local clock offset: -6.423 ms
Remote clock offset: -16.763 ms

# Below is generated by plot.py at 2018-01-17 06:33:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.65 Mbit/s
95th percentile per-packet one-way delay: 42.543 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 53.78 Mbit/s
95th percentile per-packet one-way delay: 41.658 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 38.51 Mbit/s
95th percentile per-packet one-way delay: 47.450 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 18.84 Mbit/s
95th percentile per-packet one-way delay: 37.265 ms
Loss rate: 0.42%
```

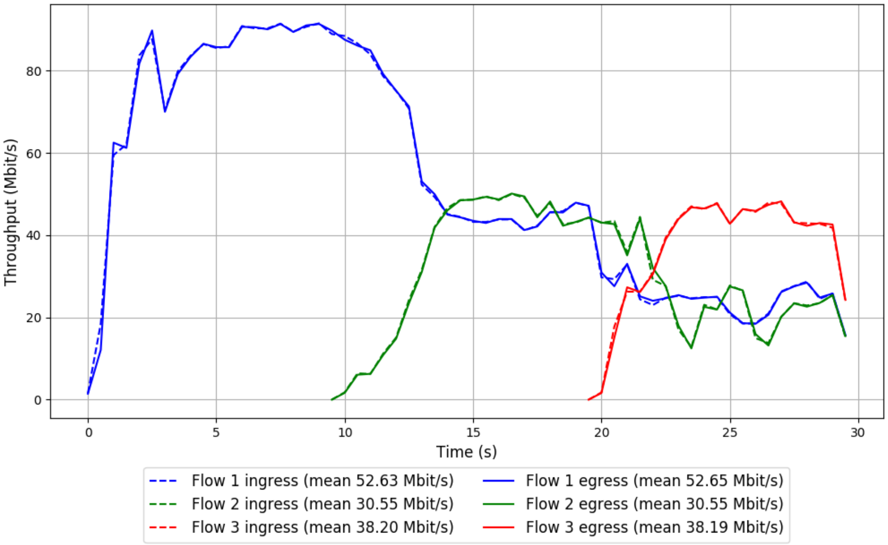
Run 9: Report of Vivace-latency — Data Link

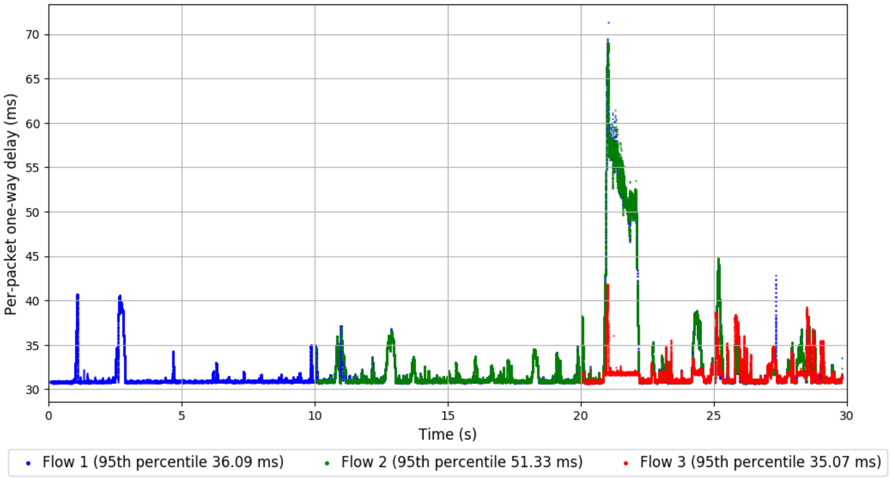




```
Run 10: Statistics of Vivace-latency

Start at: 2018-01-17 02:10:55
End at: 2018-01-17 02:11:25
Local clock offset: -2.478 ms
Remote clock offset: -16.871 ms

# Below is generated by plot.py at 2018-01-17 06:33:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.60 Mbit/s
95th percentile per-packet one-way delay: 37.494 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 52.65 Mbit/s
95th percentile per-packet one-way delay: 36.094 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 30.55 Mbit/s
95th percentile per-packet one-way delay: 51.330 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 38.19 Mbit/s
95th percentile per-packet one-way delay: 35.068 ms
Loss rate: 0.28%
```

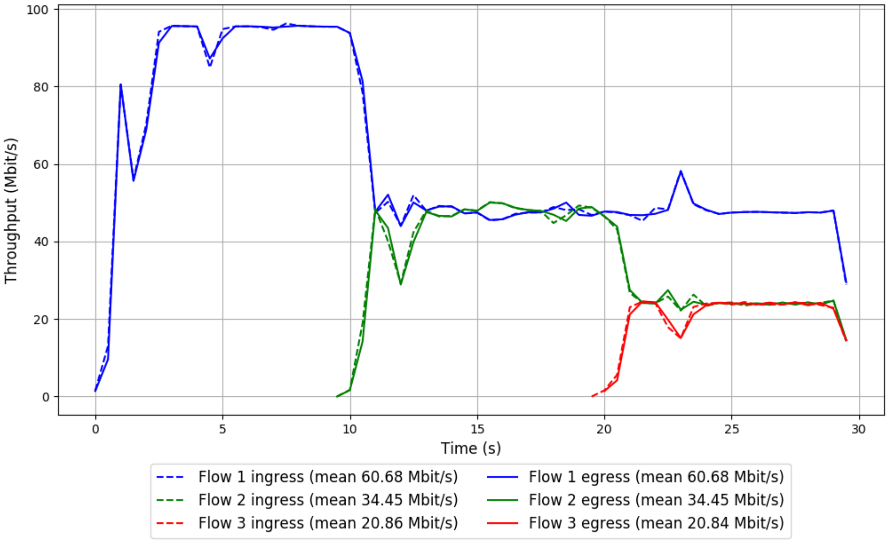
Run 10: Report of Vivace-latency — Data Link

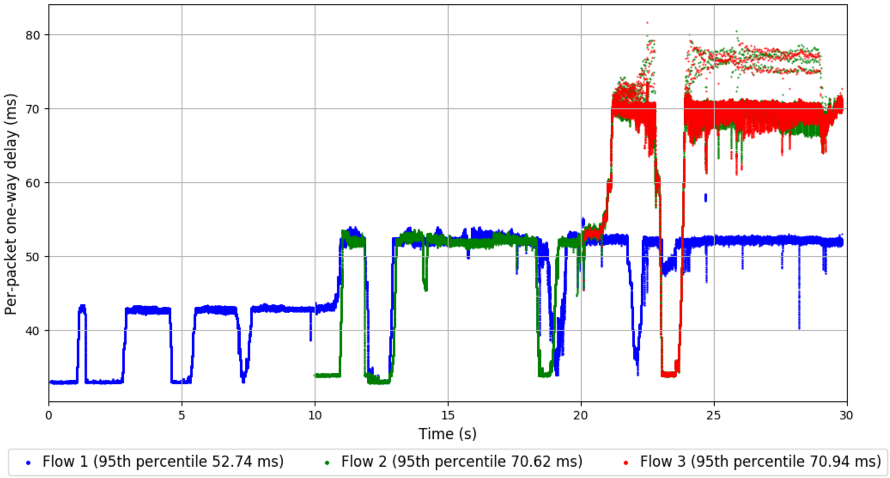




```
Run 1: Statistics of Vivace-loss

Start at: 2018-01-16 22:58:36
End at: 2018-01-16 22:59:06
Local clock offset: -4.871 ms
Remote clock offset: -10.069 ms

# Below is generated by plot.py at 2018-01-17 06:33:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.48 Mbit/s
95th percentile per-packet one-way delay: 70.402 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 60.68 Mbit/s
95th percentile per-packet one-way delay: 52.738 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 34.45 Mbit/s
95th percentile per-packet one-way delay: 70.621 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 20.84 Mbit/s
95th percentile per-packet one-way delay: 70.936 ms
Loss rate: 0.74%
```

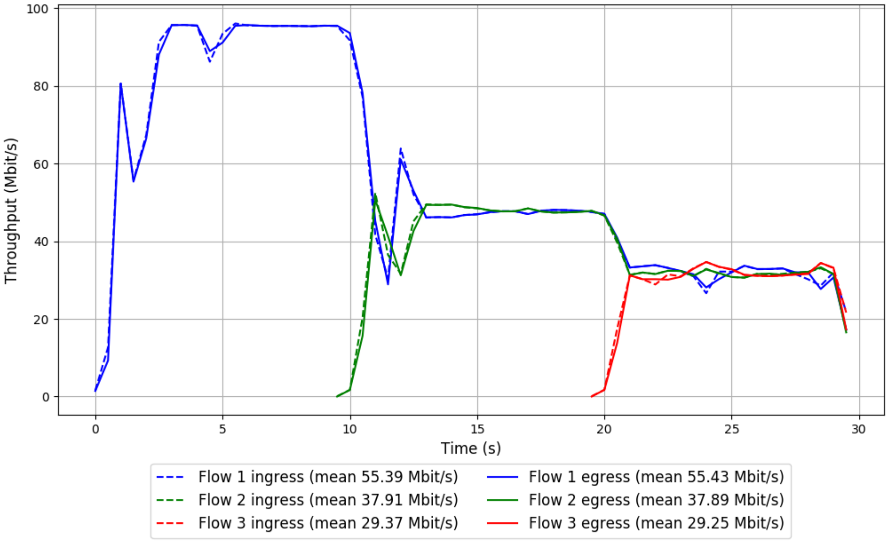
Run 1: Report of Vivace-loss — Data Link

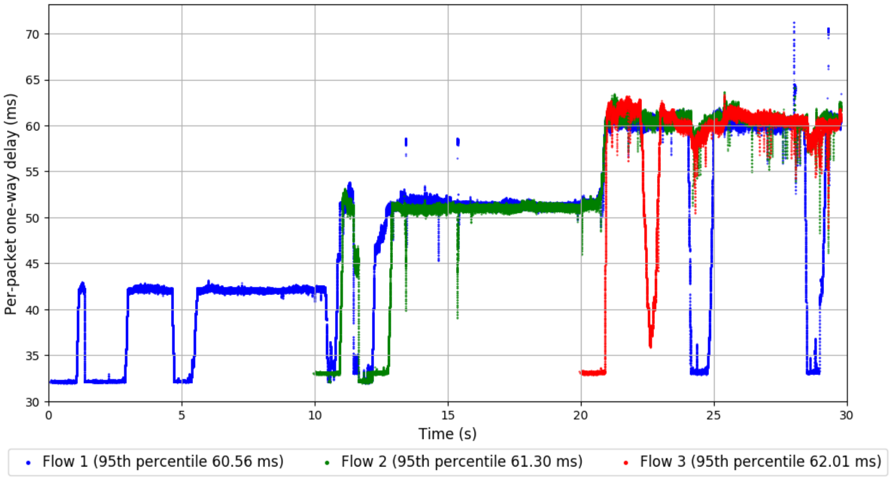




```
Run 2: Statistics of Vivace-loss

Start at: 2018-01-16 23:20:00
End at: 2018-01-16 23:20:30
Local clock offset: -4.282 ms
Remote clock offset: -8.616 ms

# Below is generated by plot.py at 2018-01-17 06:33:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.33 Mbit/s
95th percentile per-packet one-way delay: 61.159 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 55.43 Mbit/s
95th percentile per-packet one-way delay: 60.564 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 37.89 Mbit/s
95th percentile per-packet one-way delay: 61.300 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 29.25 Mbit/s
95th percentile per-packet one-way delay: 62.014 ms
Loss rate: 1.42%
```

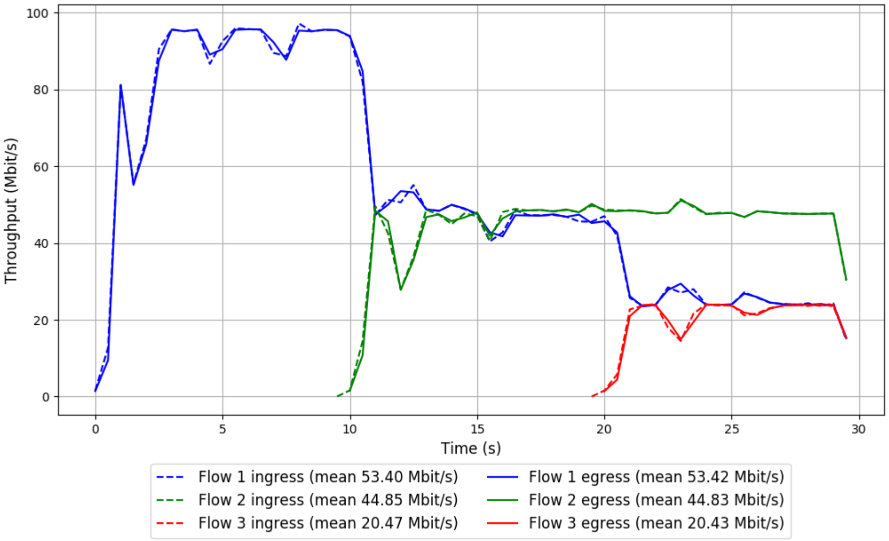
Run 2: Report of Vivace-loss — Data Link

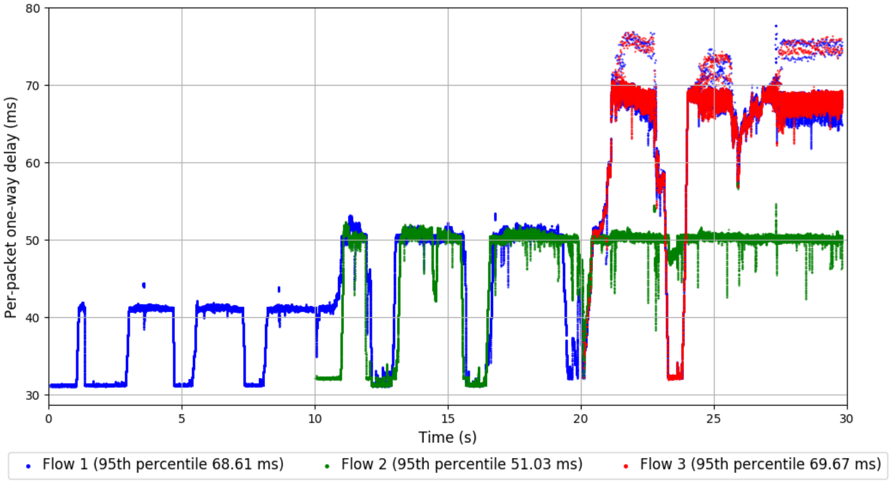




```
Run 3: Statistics of Vivace-loss

Start at: 2018-01-16 23:41:12
End at: 2018-01-16 23:41:42
Local clock offset: -3.116 ms
Remote clock offset: -7.767 ms

# Below is generated by plot.py at 2018-01-17 06:34:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.97 Mbit/s
95th percentile per-packet one-way delay: 68.726 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 53.42 Mbit/s
95th percentile per-packet one-way delay: 68.610 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 44.83 Mbit/s
95th percentile per-packet one-way delay: 51.034 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 20.43 Mbit/s
95th percentile per-packet one-way delay: 69.675 ms
Loss rate: 0.75%
```

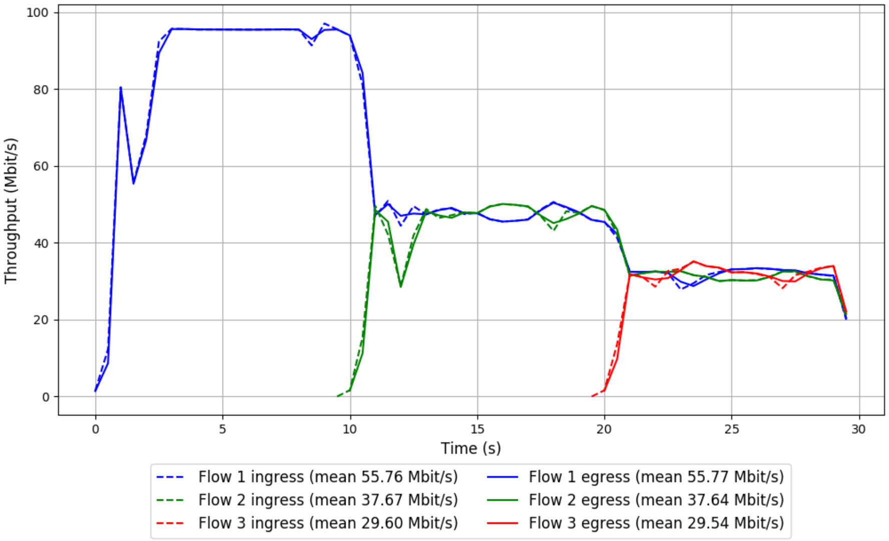
Run 3: Report of Vivace-loss — Data Link

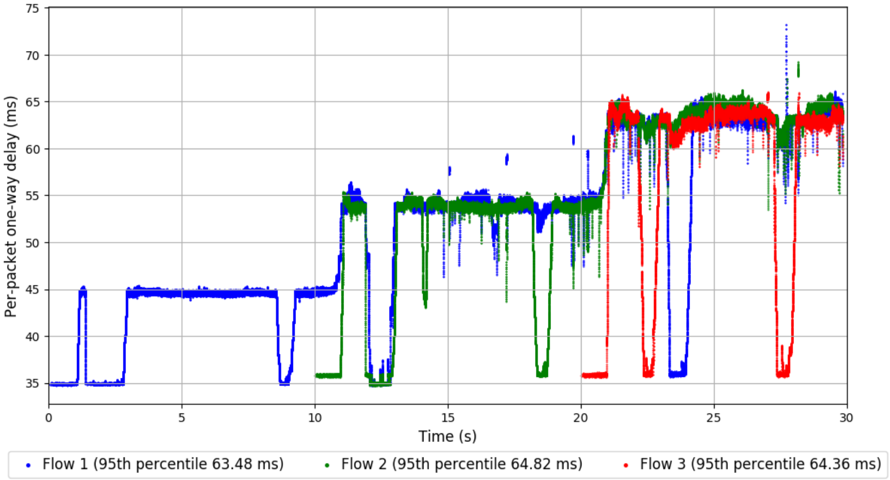




```
Run 4: Statistics of Vivace-loss

Start at: 2018-01-17 00:02:16
End at: 2018-01-17 00:02:46
Local clock offset: -0.745 ms
Remote clock offset: -8.78 ms

# Below is generated by plot.py at 2018-01-17 06:34:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.54 Mbit/s
95th percentile per-packet one-way delay: 64.232 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 55.77 Mbit/s
95th percentile per-packet one-way delay: 63.476 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 37.64 Mbit/s
95th percentile per-packet one-way delay: 64.816 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 29.54 Mbit/s
95th percentile per-packet one-way delay: 64.359 ms
Loss rate: 0.63%
```

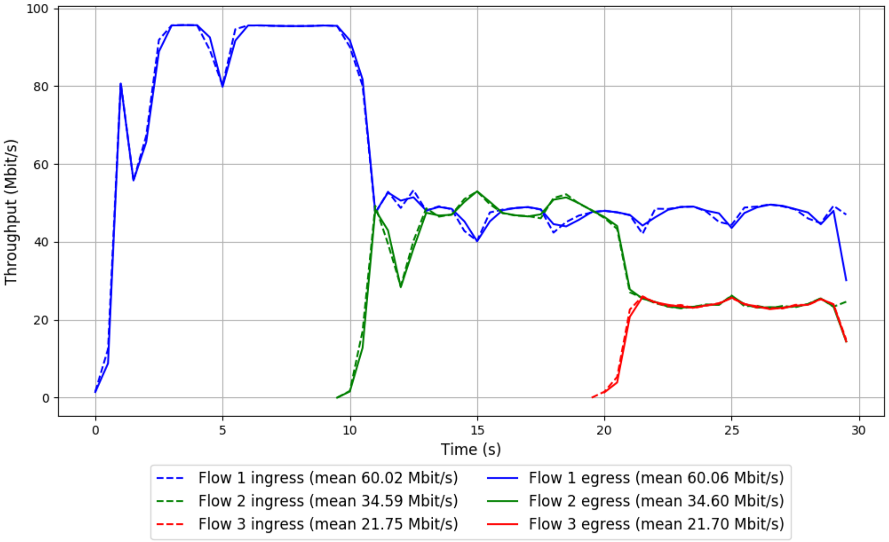
Run 4: Report of Vivace-loss — Data Link

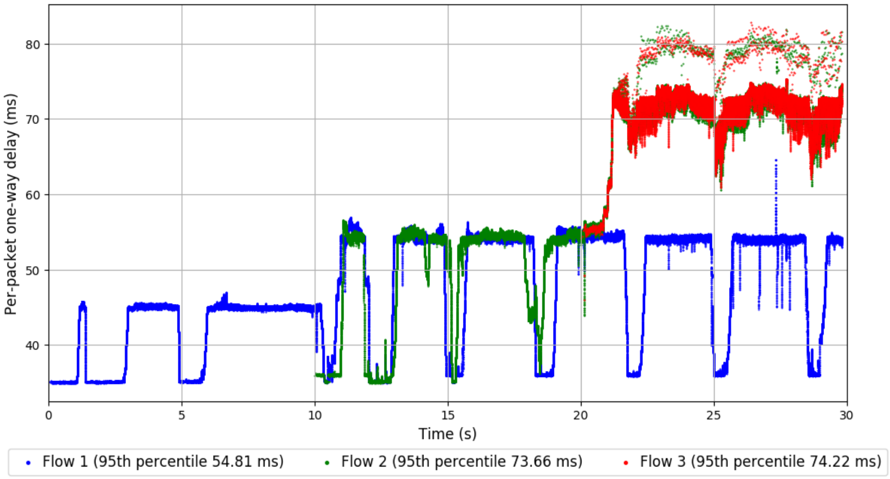




```
Run 5: Statistics of Vivace-loss

Start at: 2018-01-17 00:23:37
End at: 2018-01-17 00:24:08
Local clock offset: -2.649 ms
Remote clock offset: -12.536 ms

# Below is generated by plot.py at 2018-01-17 06:34:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.23 Mbit/s
95th percentile per-packet one-way delay: 72.867 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 60.06 Mbit/s
95th percentile per-packet one-way delay: 54.807 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 34.60 Mbit/s
95th percentile per-packet one-way delay: 73.658 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 21.70 Mbit/s
95th percentile per-packet one-way delay: 74.221 ms
Loss rate: 0.91%
```

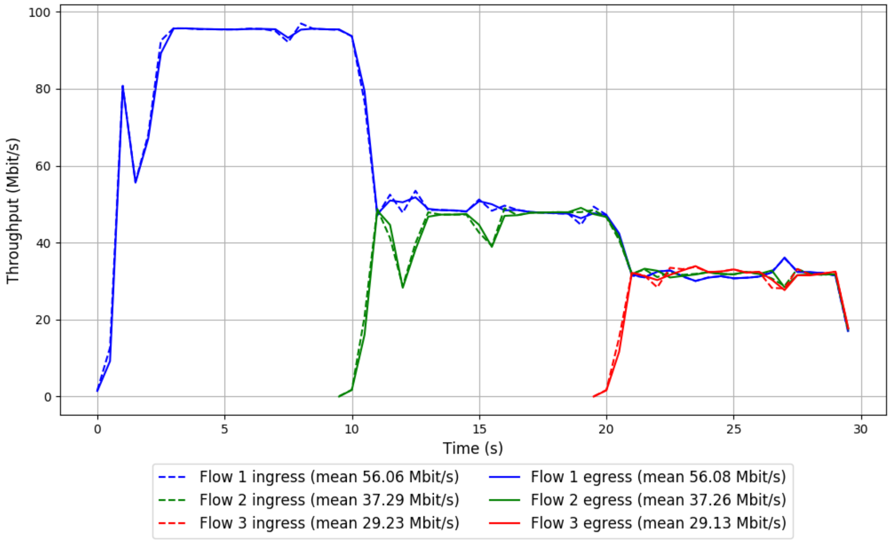
Run 5: Report of Vivace-loss — Data Link

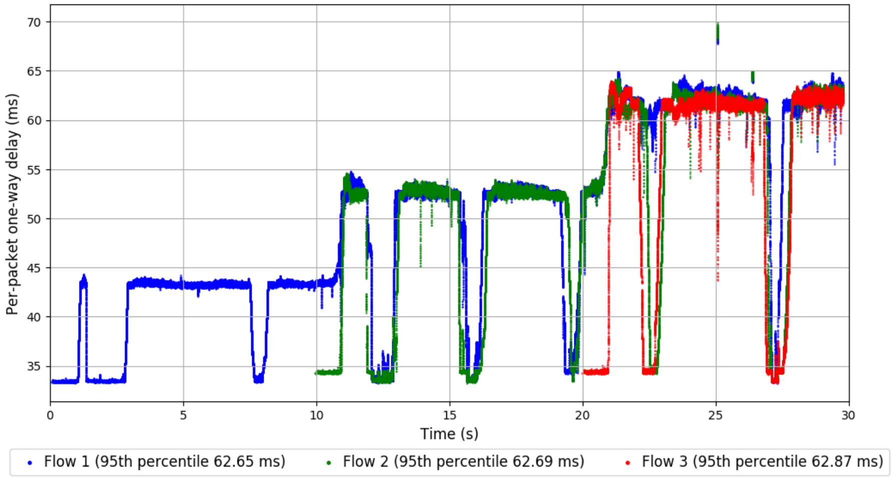




```
Run 6: Statistics of Vivace-loss

Start at: 2018-01-17 00:44:44
End at: 2018-01-17 00:45:14
Local clock offset: -4.297 ms
Remote clock offset: -13.901 ms

# Below is generated by plot.py at 2018-01-17 06:34:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.52 Mbit/s
95th percentile per-packet one-way delay: 62.704 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 56.08 Mbit/s
95th percentile per-packet one-way delay: 62.654 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 37.26 Mbit/s
95th percentile per-packet one-way delay: 62.687 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 29.13 Mbit/s
95th percentile per-packet one-way delay: 62.866 ms
Loss rate: 0.63%
```

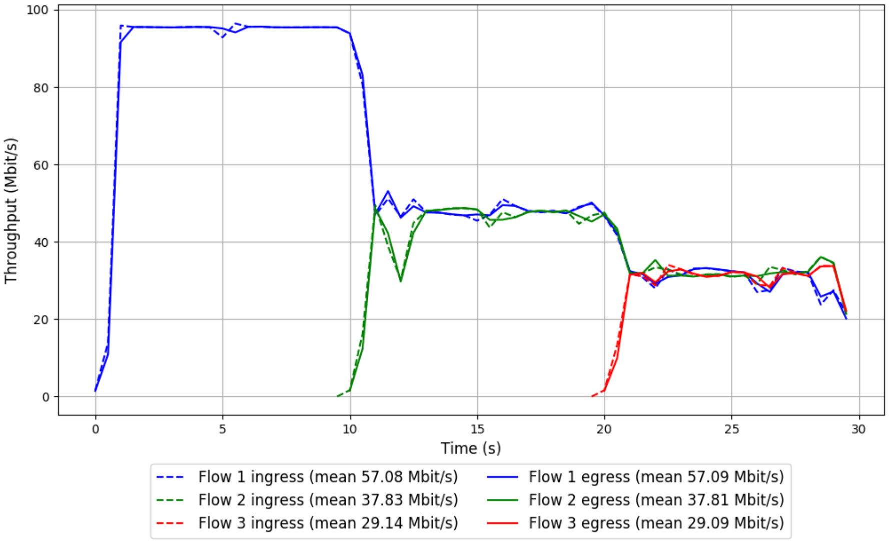
Run 6: Report of Vivace-loss — Data Link

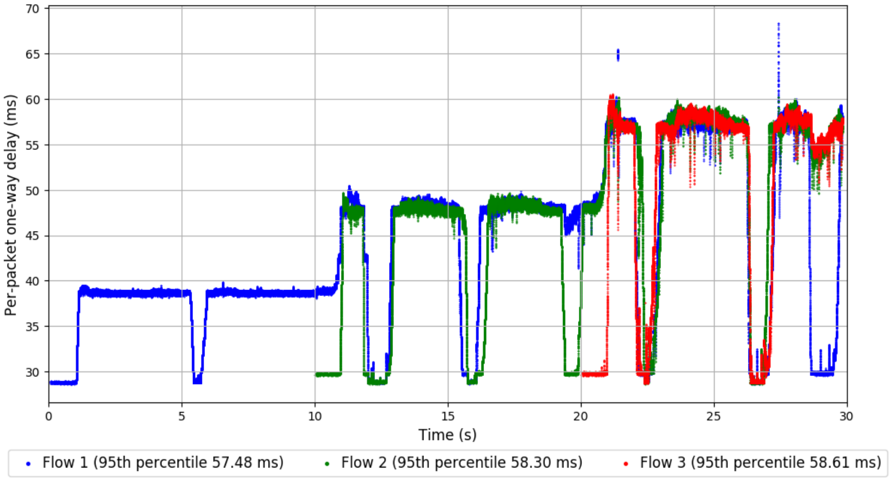




```
Run 7: Statistics of Vivace-loss

Start at: 2018-01-17 01:05:52
End at: 2018-01-17 01:06:22
Local clock offset: -4.675 ms
Remote clock offset: -12.477 ms

# Below is generated by plot.py at 2018-01-17 06:35:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.83 Mbit/s
95th percentile per-packet one-way delay: 58.014 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 57.09 Mbit/s
95th percentile per-packet one-way delay: 57.476 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 37.81 Mbit/s
95th percentile per-packet one-way delay: 58.304 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 29.09 Mbit/s
95th percentile per-packet one-way delay: 58.611 ms
Loss rate: 0.59%
```

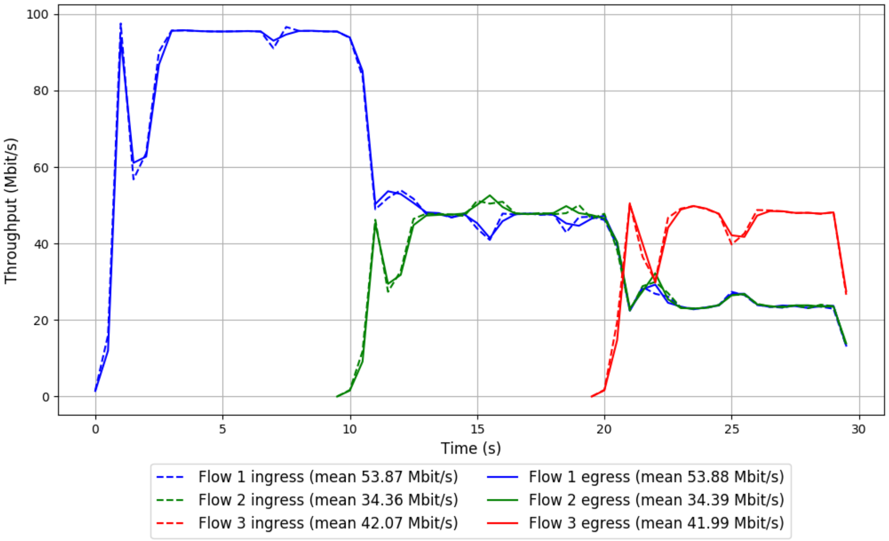
Run 7: Report of Vivace-loss — Data Link

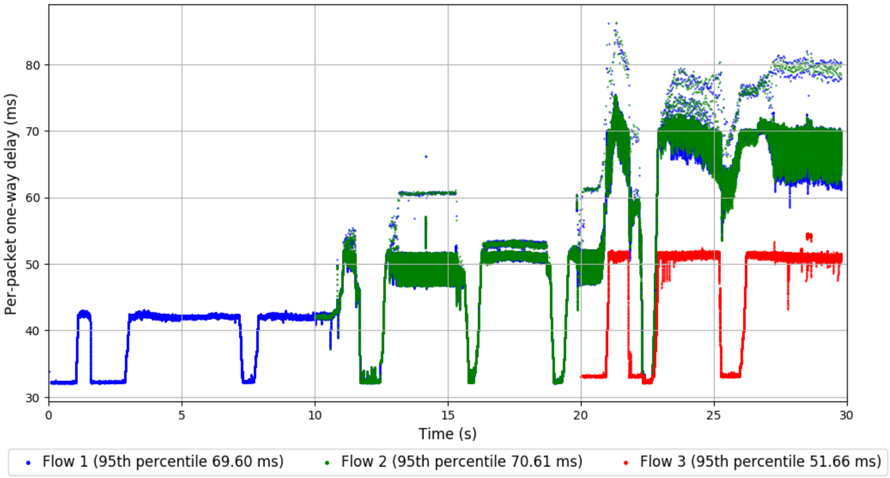




```
Run 8: Statistics of Vivace-loss

Start at: 2018-01-17 01:27:08
End at: 2018-01-17 01:27:38
Local clock offset: -3.263 ms
Remote clock offset: -16.245 ms

# Below is generated by plot.py at 2018-01-17 06:35:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.61 Mbit/s
95th percentile per-packet one-way delay: 69.821 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 53.88 Mbit/s
95th percentile per-packet one-way delay: 69.600 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 34.39 Mbit/s
95th percentile per-packet one-way delay: 70.611 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 41.99 Mbit/s
95th percentile per-packet one-way delay: 51.660 ms
Loss rate: 0.48%
```

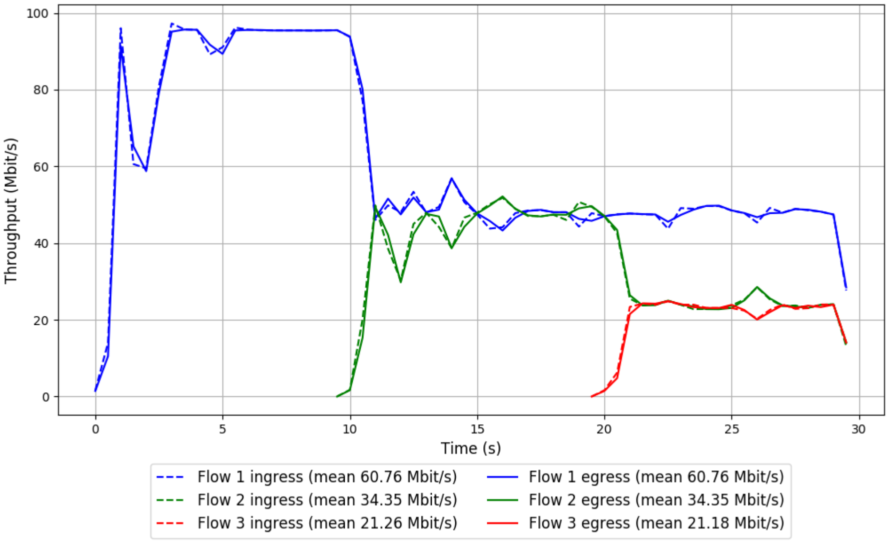
Run 8: Report of Vivace-loss — Data Link

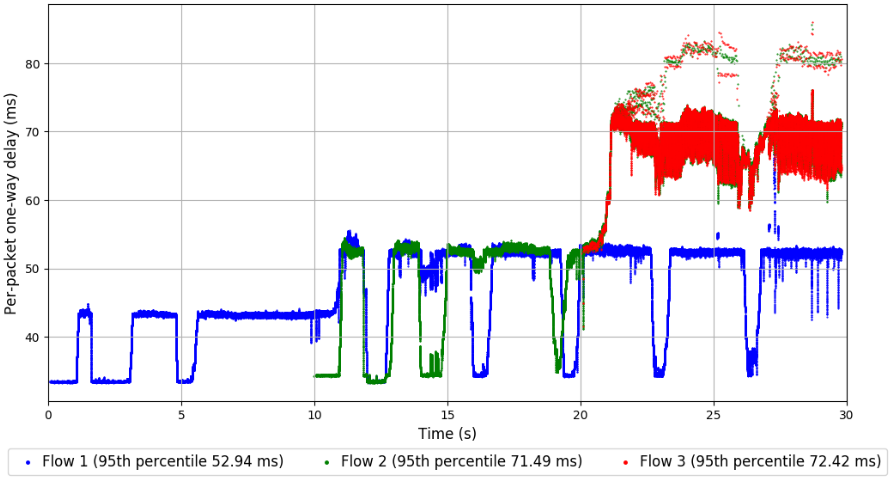




```
Run 9: Statistics of Vivace-loss

Start at: 2018-01-17 01:48:18
End at: 2018-01-17 01:48:48
Local clock offset: -1.067 ms
Remote clock offset: -16.837 ms

# Below is generated by plot.py at 2018-01-17 06:36:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.60 Mbit/s
95th percentile per-packet one-way delay: 70.688 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 60.76 Mbit/s
95th percentile per-packet one-way delay: 52.942 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 34.35 Mbit/s
95th percentile per-packet one-way delay: 71.488 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 21.18 Mbit/s
95th percentile per-packet one-way delay: 72.425 ms
Loss rate: 0.81%
```

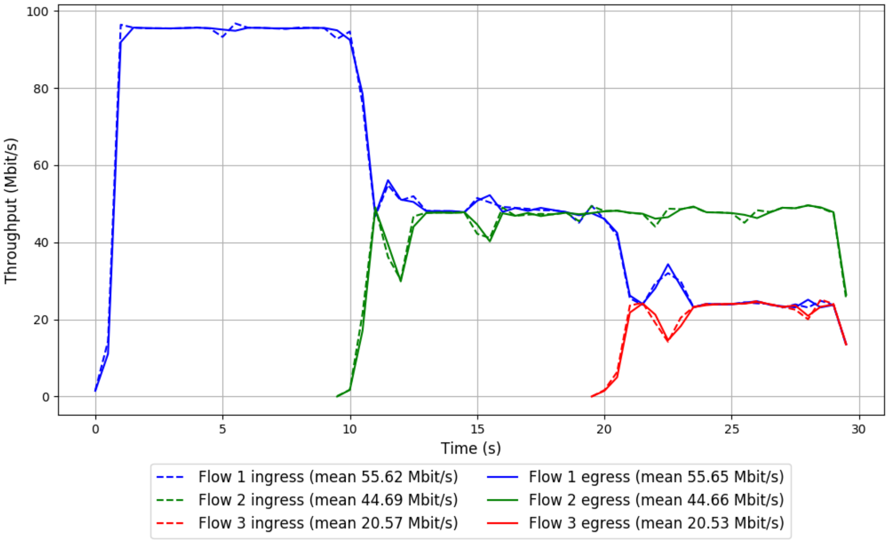
Run 9: Report of Vivace-loss — Data Link

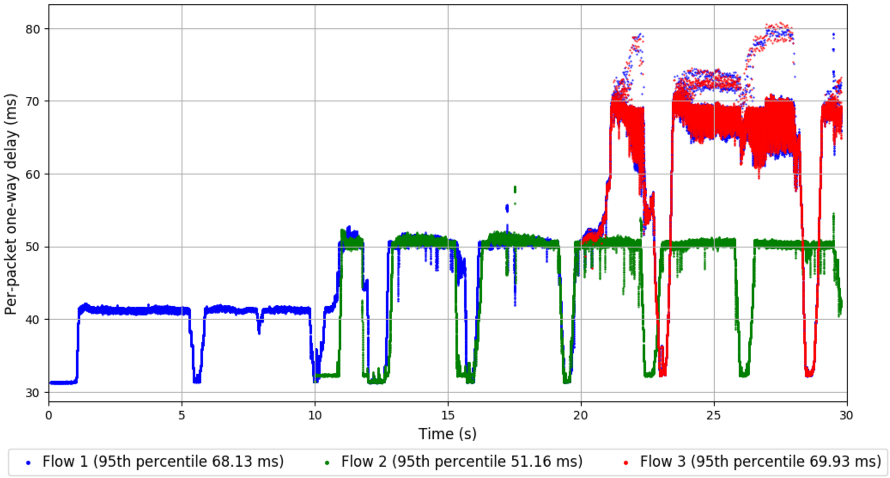




```
Run 10: Statistics of Vivace-loss

Start at: 2018-01-17 02:09:41
End at: 2018-01-17 02:10:11
Local clock offset: -2.225 ms
Remote clock offset: -17.155 ms

# Below is generated by plot.py at 2018-01-17 06:36:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.18 Mbit/s
95th percentile per-packet one-way delay: 68.458 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 55.65 Mbit/s
95th percentile per-packet one-way delay: 68.134 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 44.66 Mbit/s
95th percentile per-packet one-way delay: 51.156 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 20.53 Mbit/s
95th percentile per-packet one-way delay: 69.930 ms
Loss rate: 0.77%
```

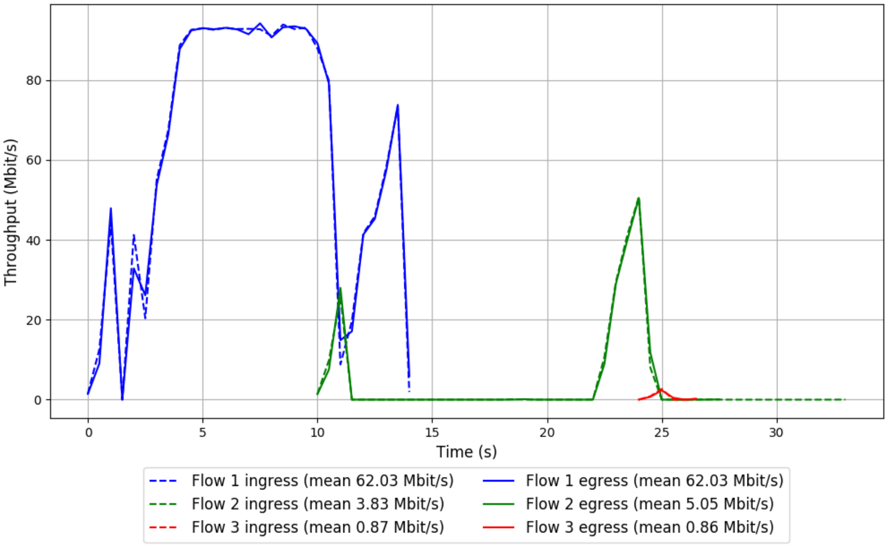
Run 10: Report of Vivace-loss — Data Link

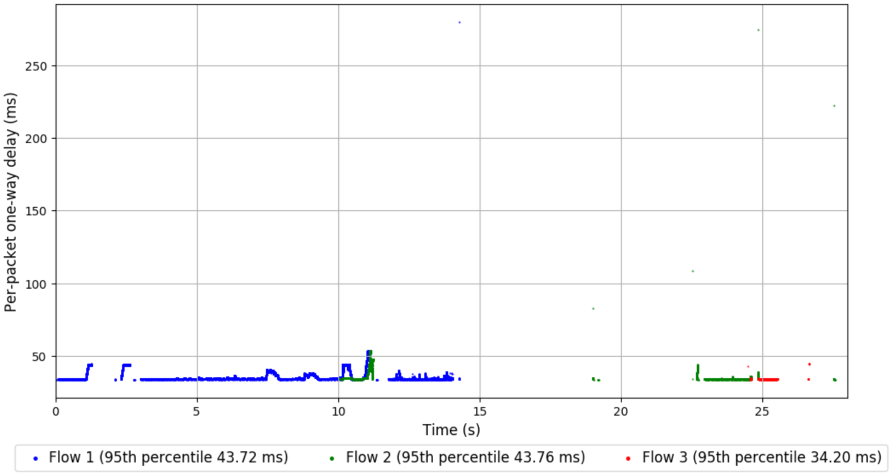




```
Run 1: Statistics of Vivace-LTE

Start at: 2018-01-16 23:11:28
End at: 2018-01-16 23:11:58
Local clock offset: -2.861 ms
Remote clock offset: -8.979 ms

# Below is generated by plot.py at 2018-01-17 06:36:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.39 Mbit/s
95th percentile per-packet one-way delay: 43.725 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.03 Mbit/s
95th percentile per-packet one-way delay: 43.723 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.05 Mbit/s
95th percentile per-packet one-way delay: 43.762 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 34.199 ms
Loss rate: 0.00%
```

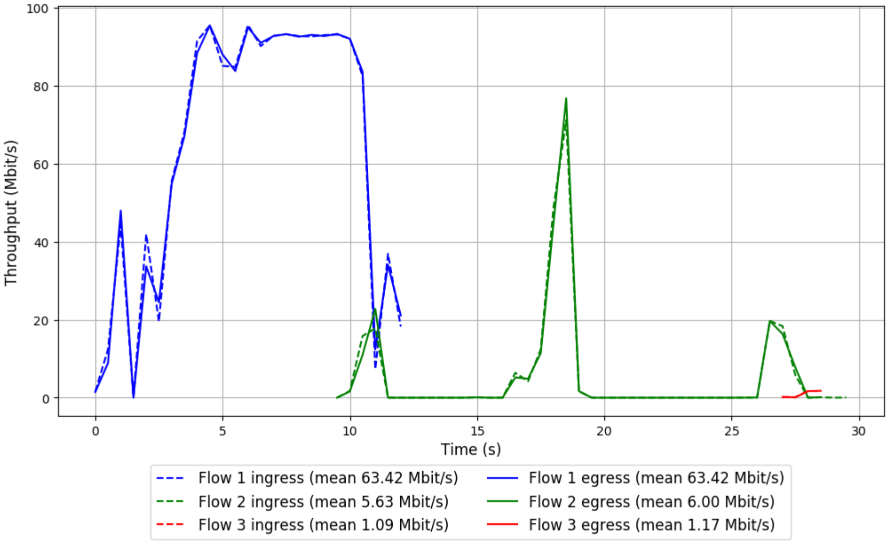
Run 1: Report of Vivace-LTE — Data Link

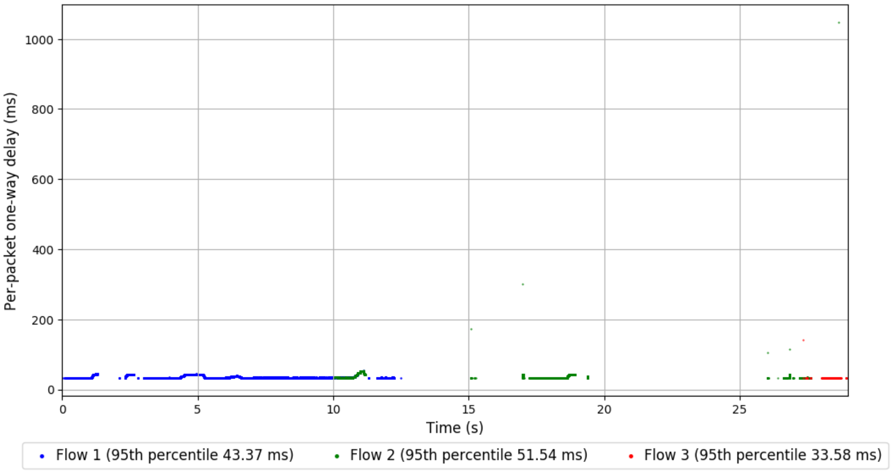




```
Run 2: Statistics of Vivace-LTE

Start at: 2018-01-16 23:32:51
End at: 2018-01-16 23:33:21
Local clock offset: -2.111 ms
Remote clock offset: -8.509 ms

# Below is generated by plot.py at 2018-01-17 06:36:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.28 Mbit/s
95th percentile per-packet one-way delay: 43.393 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.42 Mbit/s
95th percentile per-packet one-way delay: 43.369 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.00 Mbit/s
95th percentile per-packet one-way delay: 51.541 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 1.17 Mbit/s
95th percentile per-packet one-way delay: 33.577 ms
Loss rate: 0.00%
```

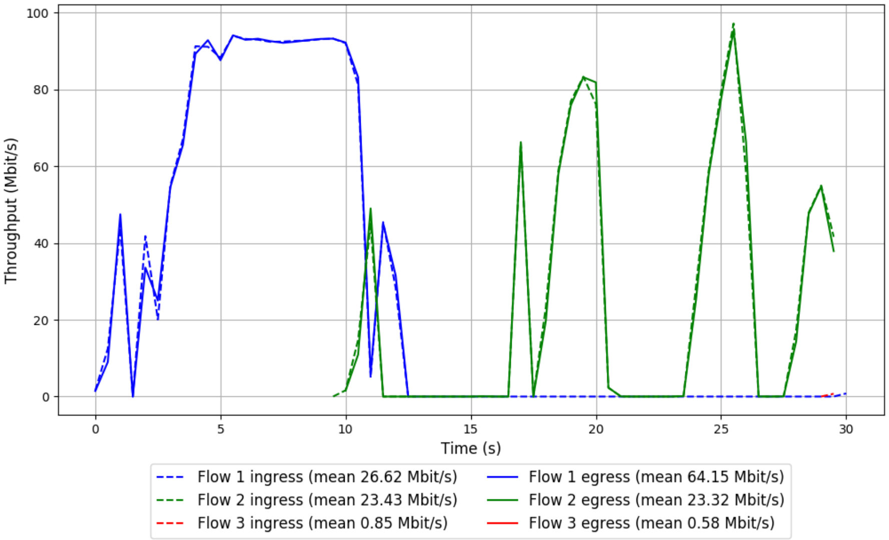
Run 2: Report of Vivace-LTE — Data Link

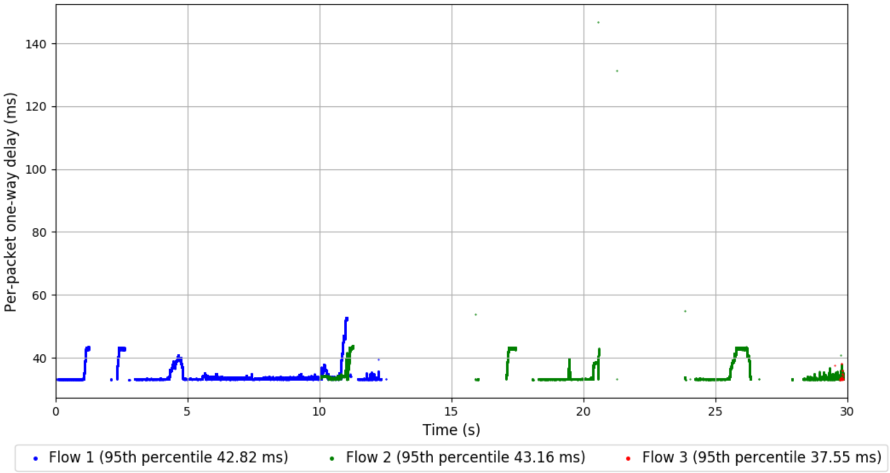




```
Run 3: Statistics of Vivace-LTE

Start at: 2018-01-16 23:54:04
End at: 2018-01-16 23:54:34
Local clock offset: -2.027 ms
Remote clock offset: -8.403 ms

# Below is generated by plot.py at 2018-01-17 06:36:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.38 Mbit/s
95th percentile per-packet one-way delay: 43.089 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 64.15 Mbit/s
95th percentile per-packet one-way delay: 42.824 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 23.32 Mbit/s
95th percentile per-packet one-way delay: 43.165 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 37.546 ms
Loss rate: 49.28%
```

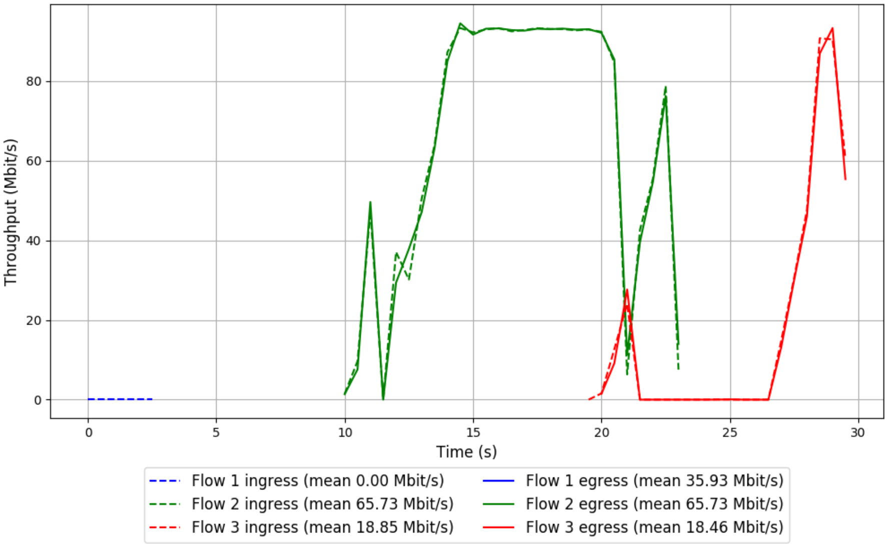
Run 3: Report of Vivace-LTE — Data Link

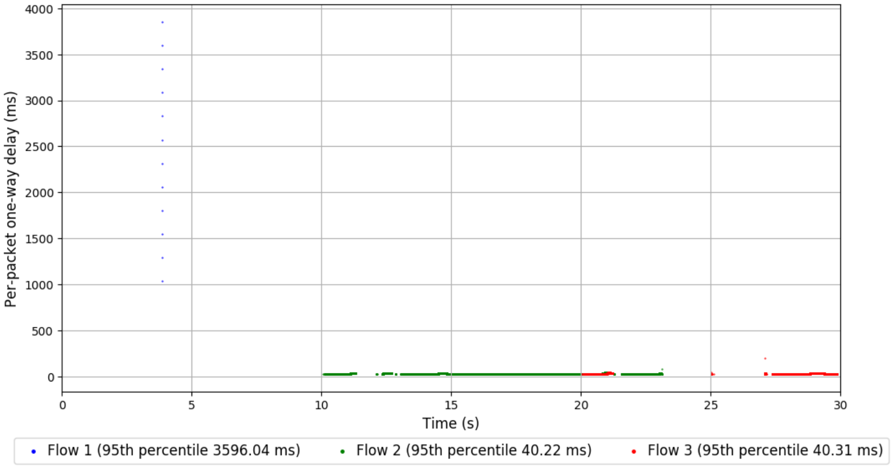




```
Run 4: Statistics of Vivace-LTE

Start at: 2018-01-17 00:15:10
End at: 2018-01-17 00:15:40
Local clock offset: -4.774 ms
Remote clock offset: -9.327 ms

# Below is generated by plot.py at 2018-01-17 06:36:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.00 Mbit/s
95th percentile per-packet one-way delay: 40.256 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 35.93 Mbit/s
95th percentile per-packet one-way delay: 3596.042 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 65.73 Mbit/s
95th percentile per-packet one-way delay: 40.220 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 18.46 Mbit/s
95th percentile per-packet one-way delay: 40.311 ms
Loss rate: 2.67%
```

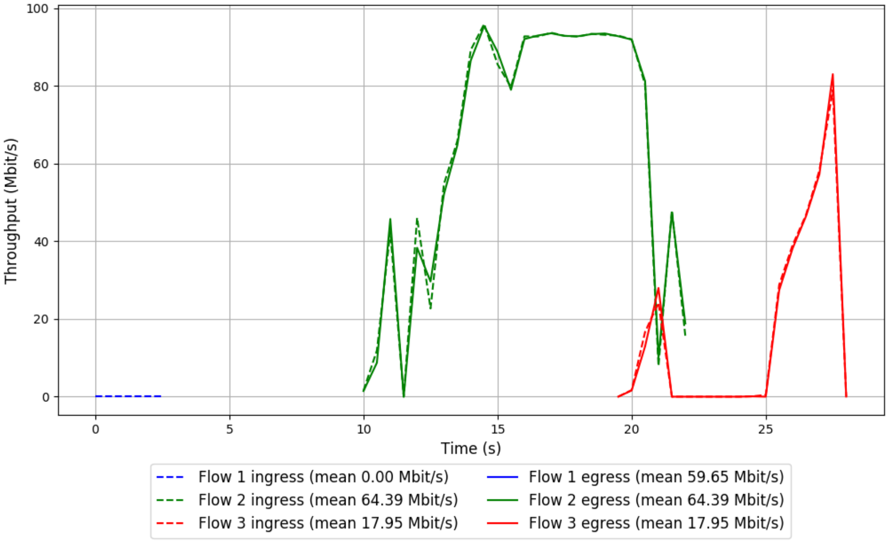
Run 4: Report of Vivace-LTE — Data Link

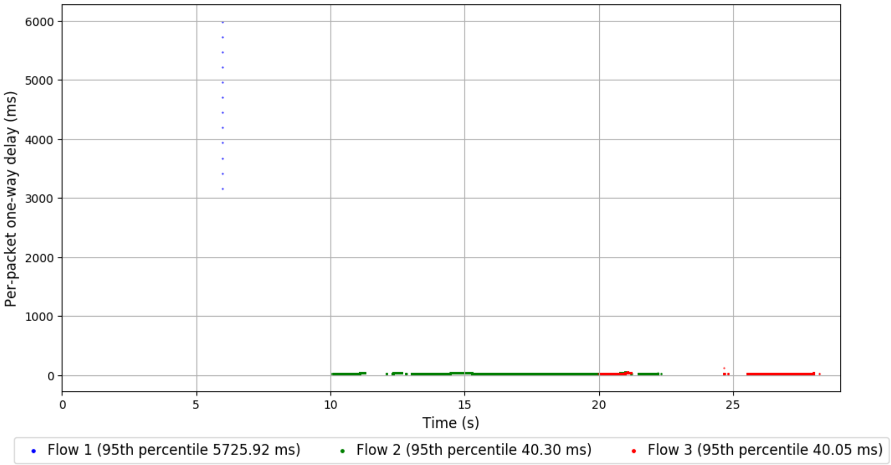




```
Run 5: Statistics of Vivace-LTE

Start at: 2018-01-17 00:36:23
End at: 2018-01-17 00:36:53
Local clock offset: -5.894 ms
Remote clock offset: -11.737 ms
```

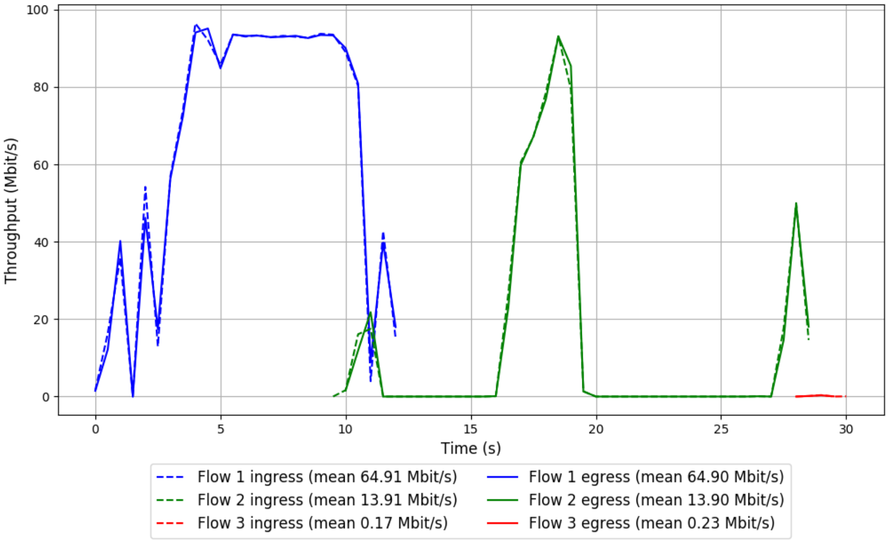
Run 5: Report of Vivace-LTE — Data Link

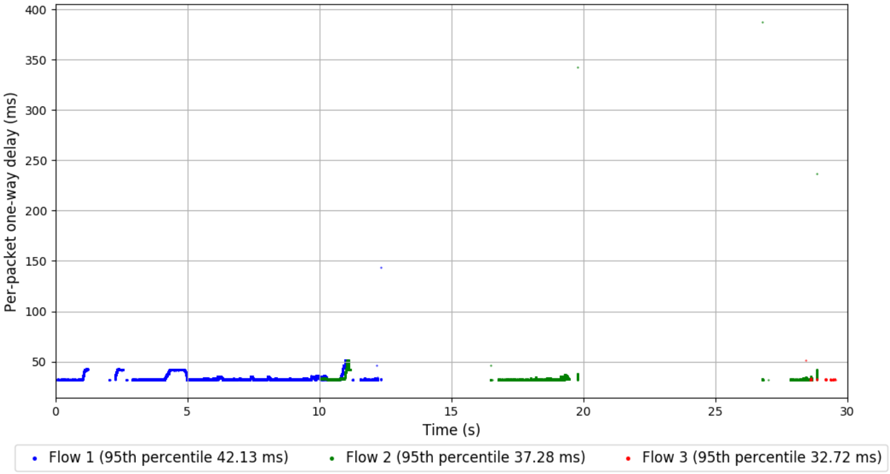




```
Run 6: Statistics of Vivace-LTE

Start at: 2018-01-17 00:57:36
End at: 2018-01-17 00:58:06
Local clock offset: -2.133 ms
Remote clock offset: -12.908 ms

# Below is generated by plot.py at 2018-01-17 06:36:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.90 Mbit/s
95th percentile per-packet one-way delay: 42.107 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.90 Mbit/s
95th percentile per-packet one-way delay: 42.129 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.90 Mbit/s
95th percentile per-packet one-way delay: 37.284 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 32.720 ms
Loss rate: 9.09%
```

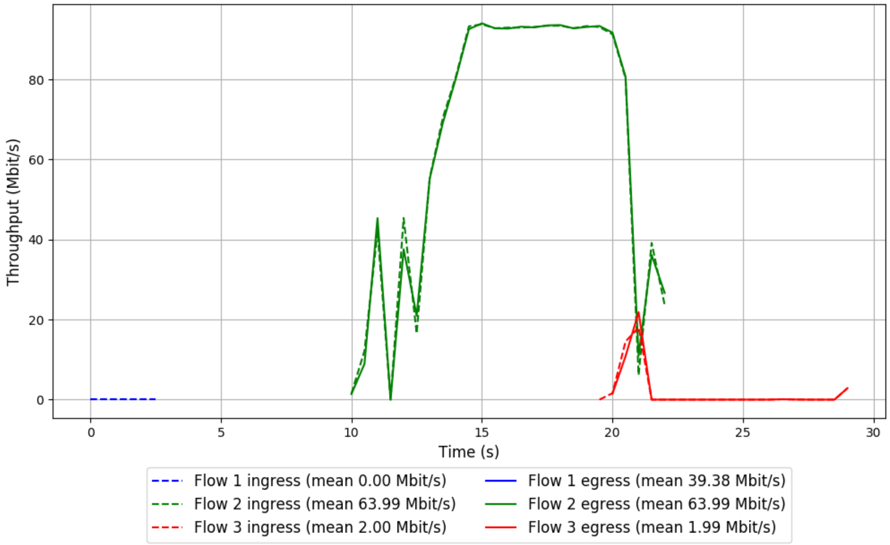
Run 6: Report of Vivace-LTE — Data Link

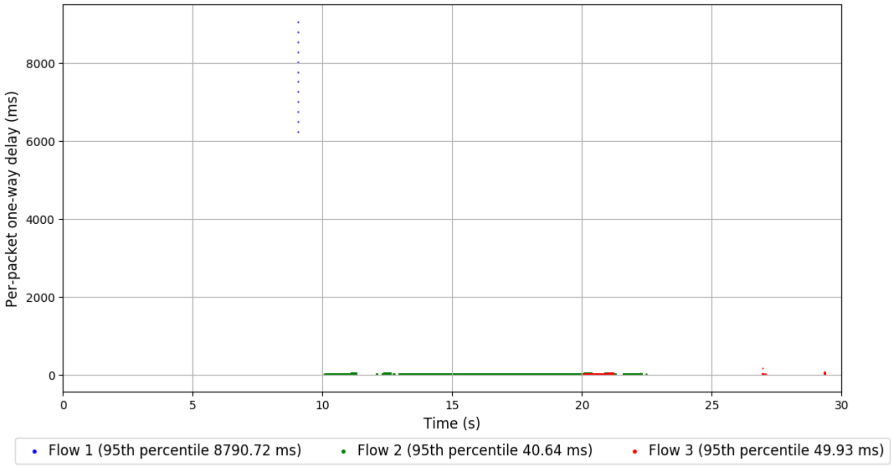




```
Run 7: Statistics of Vivace-LTE

Start at: 2018-01-17 01:18:44
End at: 2018-01-17 01:19:14
Local clock offset: -1.839 ms
Remote clock offset: -12.886 ms
```

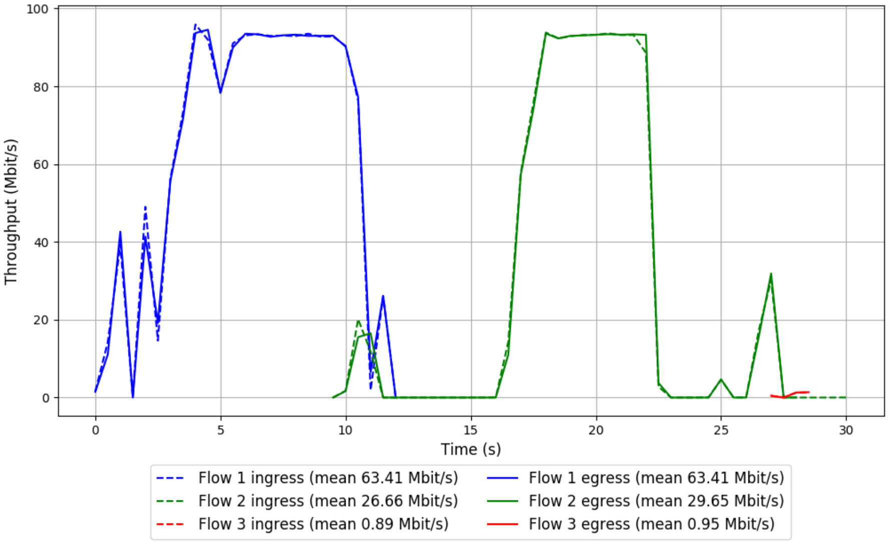
Run 7: Report of Vivace-LTE — Data Link

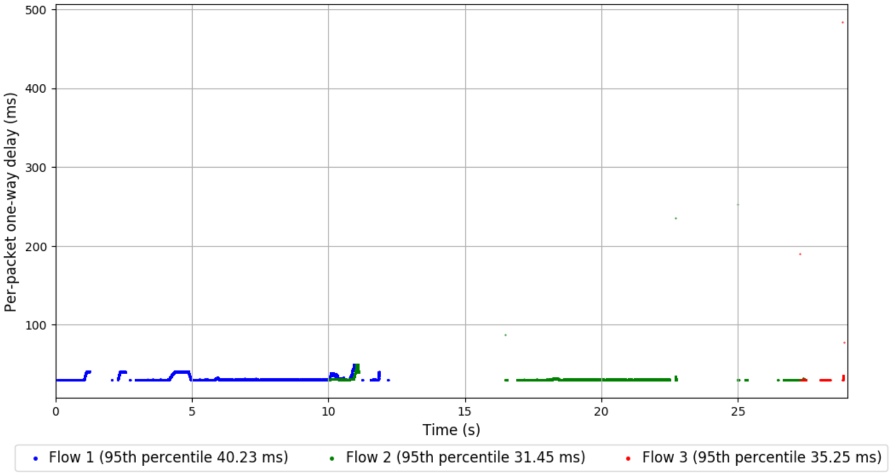




```
Run 8: Statistics of Vivace-LTE

Start at: 2018-01-17 01:40:00
End at: 2018-01-17 01:40:30
Local clock offset: -4.638 ms
Remote clock offset: -16.599 ms

# Below is generated by plot.py at 2018-01-17 06:36:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 45.36 Mbit/s
95th percentile per-packet one-way delay: 40.147 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.41 Mbit/s
95th percentile per-packet one-way delay: 40.225 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 29.65 Mbit/s
95th percentile per-packet one-way delay: 31.448 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.95 Mbit/s
95th percentile per-packet one-way delay: 35.248 ms
Loss rate: 0.00%
```

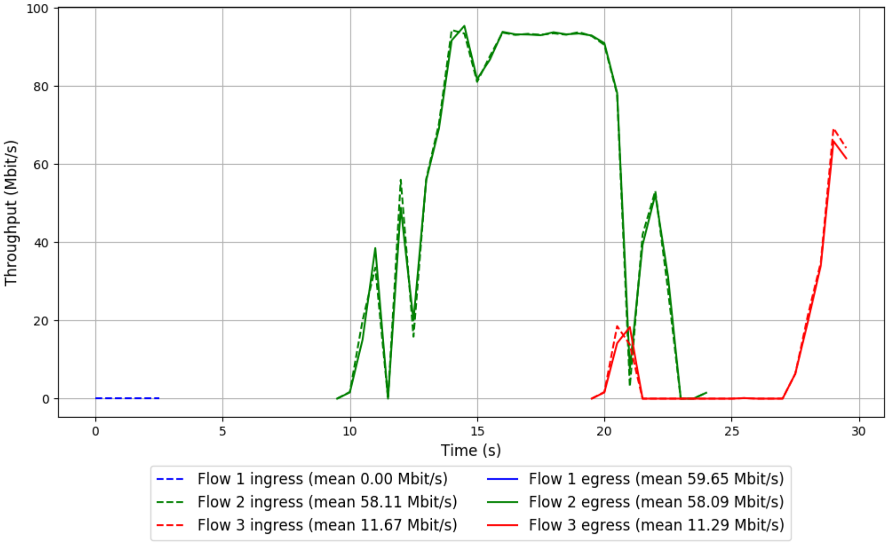
Run 8: Report of Vivace-LTE — Data Link

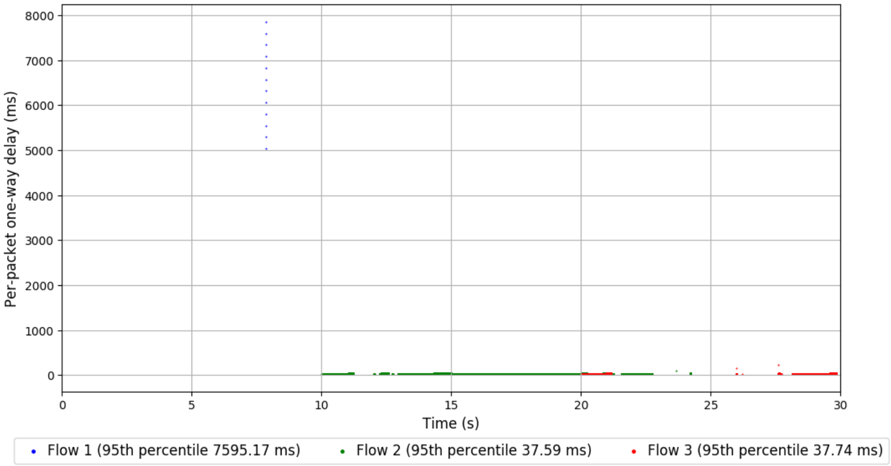




```
Run 9: Statistics of Vivace-LTE

Start at: 2018-01-17 02:01:15
End at: 2018-01-17 02:01:45
Local clock offset: -5.453 ms
Remote clock offset: -16.786 ms
```

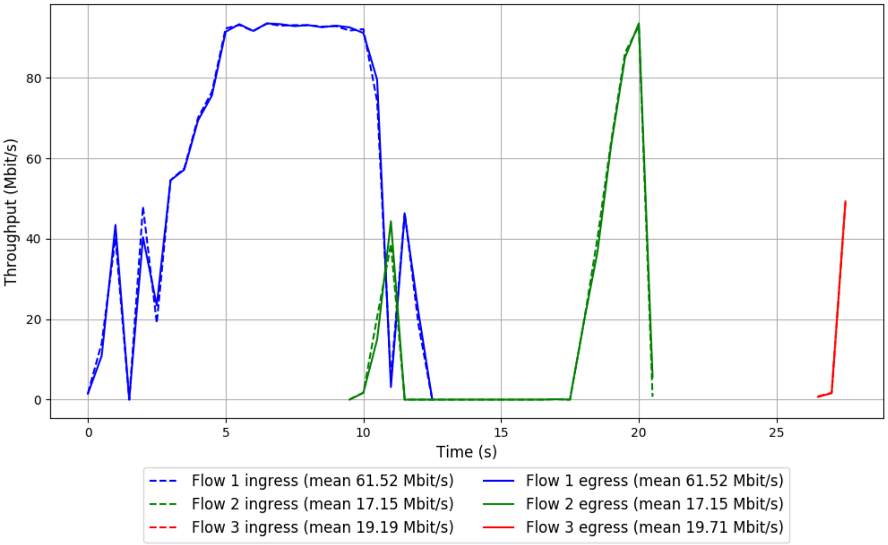
Run 9: Report of Vivace-LTE — Data Link



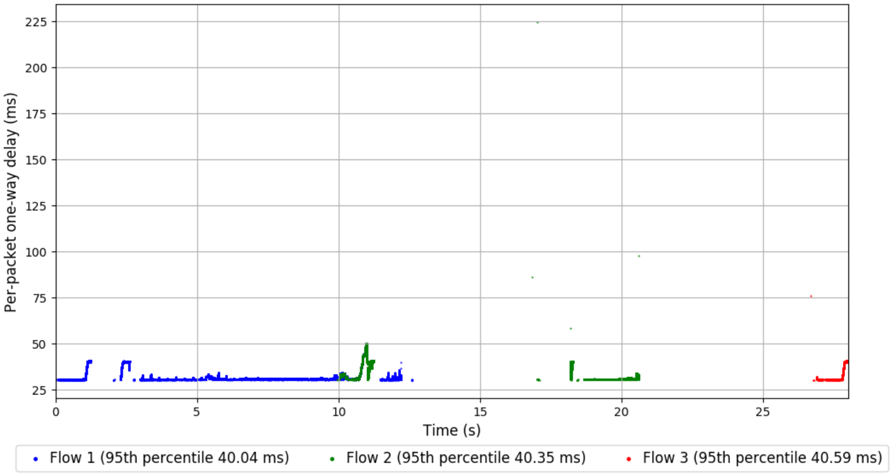


```
Run 10: Statistics of Vivace-LTE

Start at: 2018-01-17 02:22:40
End at: 2018-01-17 02:23:10
Local clock offset: -2.817 ms
Remote clock offset: -16.894 ms

# Below is generated by plot.py at 2018-01-17 06:36:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.08 Mbit/s
95th percentile per-packet one-way delay: 40.163 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.52 Mbit/s
95th percentile per-packet one-way delay: 40.037 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 17.15 Mbit/s
95th percentile per-packet one-way delay: 40.349 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 19.71 Mbit/s
95th percentile per-packet one-way delay: 40.588 ms
Loss rate: 0.00%
```

Run 10: Report of Vivace-LTE — Data Link



Throughput (Mbit/s)
0
20
40
60
80
0
5
10
15
20
25
Time (s)
Flow 1 ingress (mean 61.52 Mbit/s)
Flow 1 egress (mean 61.52 Mbit/s)
Flow 2 ingress (mean 17.15 Mbit/s)
Flow 2 egress (mean 17.15 Mbit/s)
Flow 3 ingress (mean 19.19 Mbit/s)
Flow 3 egress (mean 19.71 Mbit/s)



Per-packet one-way delay (ms)
25
50
75
100
125
150
175
200
225
0
5
10
15
20
25
Time (s)
Flow 1 (95th percentile 40.04 ms)
Flow 2 (95th percentile 40.35 ms)
Flow 3 (95th percentile 40.59 ms)