Pantheon Report

Generated at 2017-10-12 10:23:09 (UTC).

Data path: Mexico Ethernet (*remote*) →AWS California 2 Ethernet (*local*).

Repeated the test of 14 congestion control schemes 10 times.

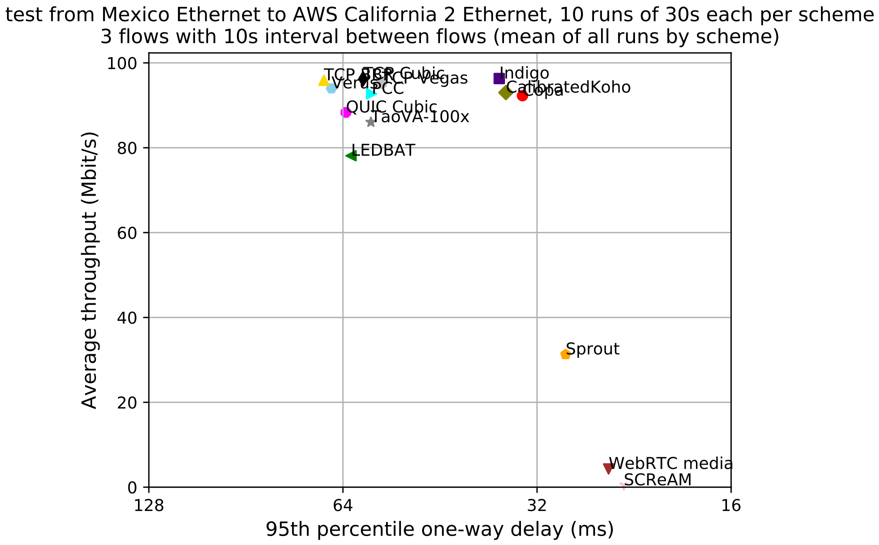
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

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

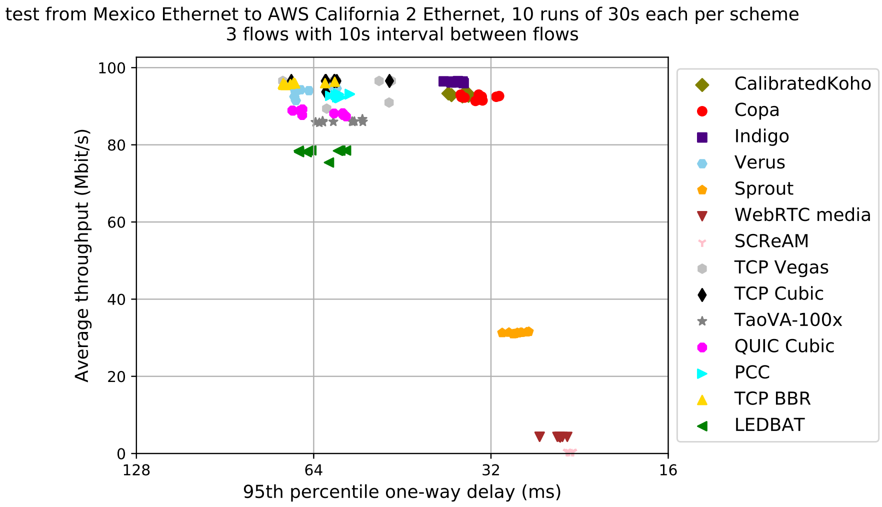
Tested BBR with qdisc of Fair Queuing (`fq`), and other schemes with the default Linux qdisc (`pfifo_fast`).

NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

```
Git summary:
branch: indigos @ 45998d6404be7c5106956530acb9cfc43bd06e7d
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
 M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fabb936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
 M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
 M receiver/src/buffer.h
 M receiver/src/core.cpp
 M sender/src/buffer.h
 M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
 M src/examples/cellsim.cc
 M src/examples/sproutbt2.cc
 M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
 M src/verus.hpp
 M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```



test from Mexico Ethernet to AWS California 2 Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from Mexico Ethernet to AWS California 2 Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows

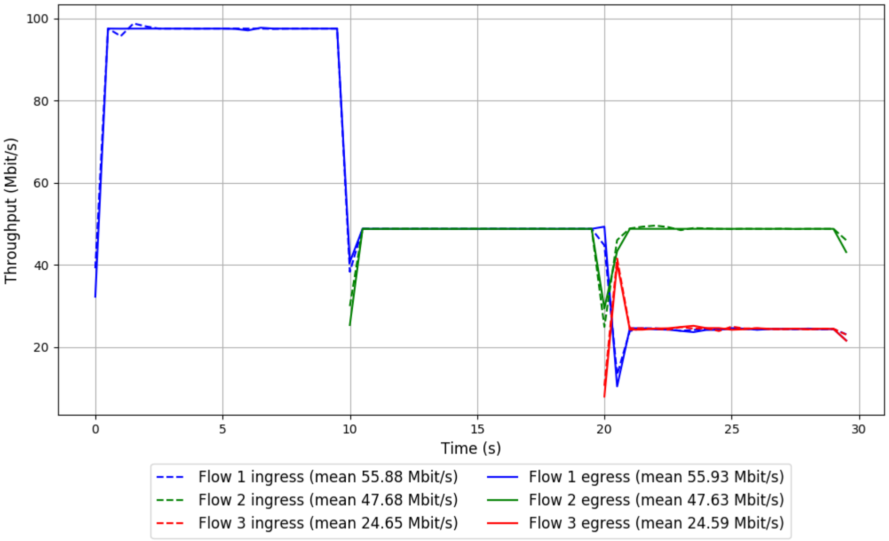
		mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
scheme	# runs	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	57.93	41.56	31.01	63.57	59.90	65.17	0.17	0.38	0.94
TCP Cubic	9	60.04	40.06	32.26	56.39	61.61	59.70	0.20	0.53	1.30
LEDBAT	10	47.78	34.09	23.05	60.23	59.59	59.47	0.23	0.46	1.26
PCC	10	58.16	39.73	24.72	56.37	50.22	62.44	0.58	0.92	1.19
QUIC Cubic	9	51.54	42.10	26.88	58.67	56.27	63.74	0.19	0.35	0.99
SCReAM	10	0.22	0.22	0.22	23.47	23.47	23.45	0.14	0.30	0.36
WebRTC media	10	2.27	1.43	0.61	24.62	24.77	25.12	0.25	0.35	0.48
Sprout	10	15.83	15.68	15.20	28.41	28.88	30.27	0.18	0.27	0.58
TaoVA-100x	10	51.39	42.01	27.09	54.32	52.74	58.64	0.18	0.39	1.05
TCP Vegas	9	61.46	39.02	29.11	53.08	54.93	58.64	0.15	0.26	1.73
Verus	10	60.04	36.23	29.86	57.69	63.55	63.85	0.18	0.37	0.84
Copa	10	58.99	40.87	24.86	32.73	32.49	40.32	0.11	0.28	0.82
CalibratedKoho	10	66.03	22.70	35.78	35.71	35.83	35.77	0.12	0.26	0.68
Indigo	10	60.63	36.50	35.27	37.52	37.20	35.67	0.12	0.23	0.66

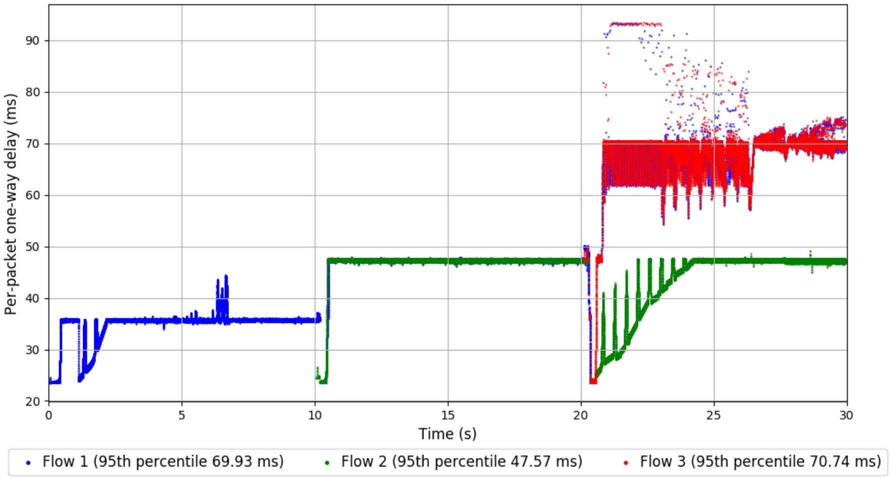
```
Run 1: Statistics of TCP BBR

Start at: 2017-10-12 03:54:02
End at: 2017-10-12 03:54:32
Local clock offset: -0.22 ms
Remote clock offset: -0.499 ms

# Below is generated by plot.py at 2017-10-12 10:01:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.75 Mbit/s
95th percentile per-packet one-way delay: 70.082 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 55.93 Mbit/s
95th percentile per-packet one-way delay: 69.934 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 47.63 Mbit/s
95th percentile per-packet one-way delay: 47.573 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 24.59 Mbit/s
95th percentile per-packet one-way delay: 70.738 ms
Loss rate: 1.00%
```

Run 1: Report of TCP BBR — Data Link



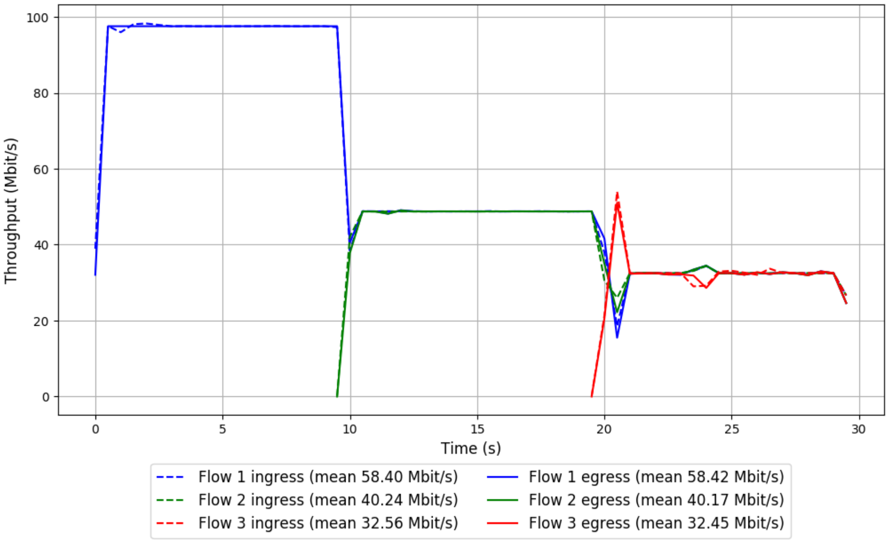


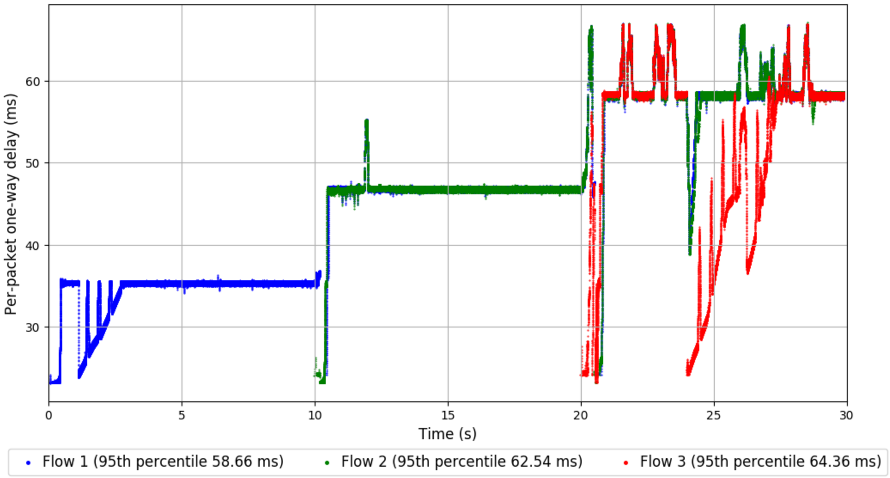
```
Run 2: Statistics of TCP BBR

Start at: 2017-10-12 04:13:07
End at: 2017-10-12 04:13:37
Local clock offset: -0.328 ms
Remote clock offset: 0.388 ms

# Below is generated by plot.py at 2017-10-12 10:01:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 61.201 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 58.42 Mbit/s
95th percentile per-packet one-way delay: 58.655 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 40.17 Mbit/s
95th percentile per-packet one-way delay: 62.539 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 32.45 Mbit/s
95th percentile per-packet one-way delay: 64.365 ms
Loss rate: 1.03%
```

Run 2: Report of TCP BBR — Data Link



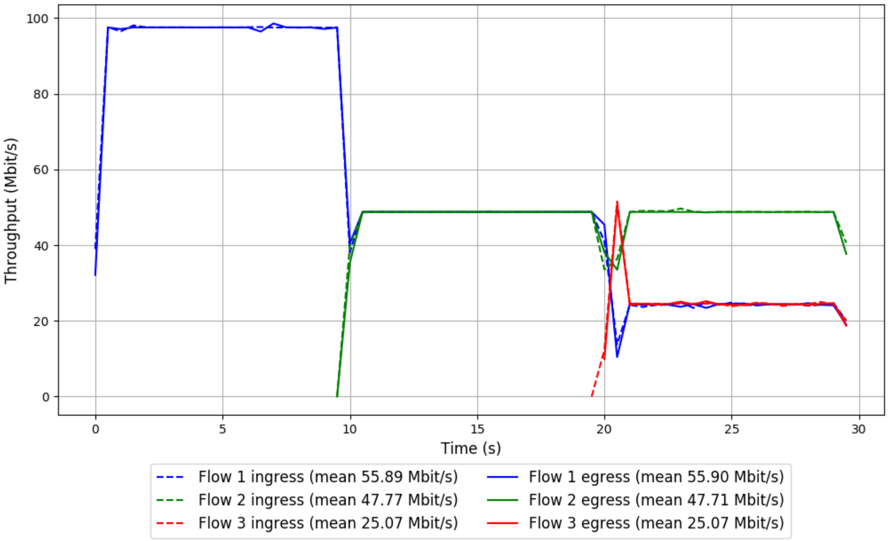


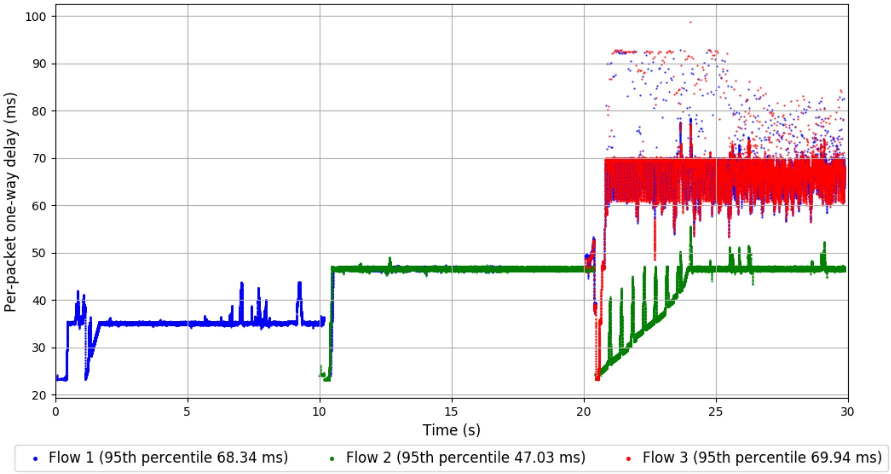
```
Run 3: Statistics of TCP BBR

Start at: 2017-10-12 04:32:11
End at: 2017-10-12 04:32:41
Local clock offset: -0.303 ms
Remote clock offset: 0.93 ms

# Below is generated by plot.py at 2017-10-12 10:01:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.01 Mbit/s
95th percentile per-packet one-way delay: 69.018 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 55.90 Mbit/s
95th percentile per-packet one-way delay: 68.343 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 47.71 Mbit/s
95th percentile per-packet one-way delay: 47.026 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 25.07 Mbit/s
95th percentile per-packet one-way delay: 69.937 ms
Loss rate: 0.92%
```

Run 3: Report of TCP BBR — Data Link



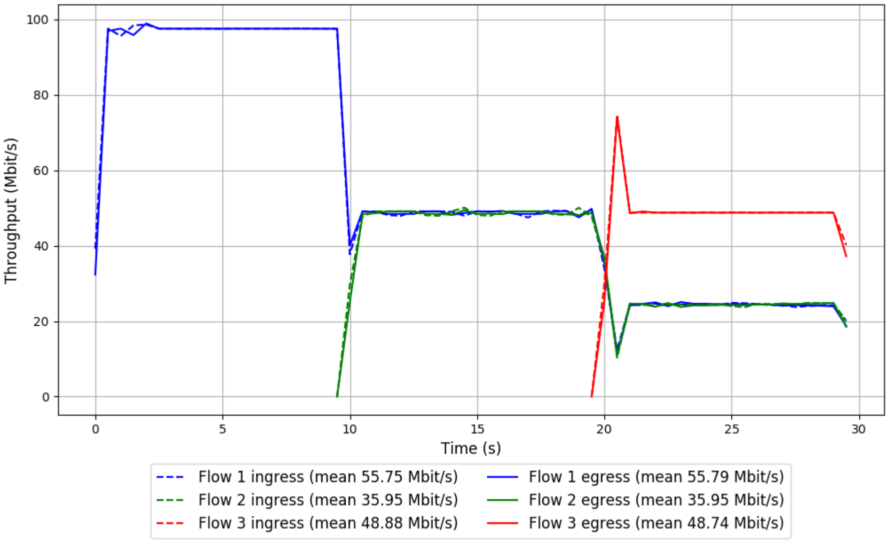


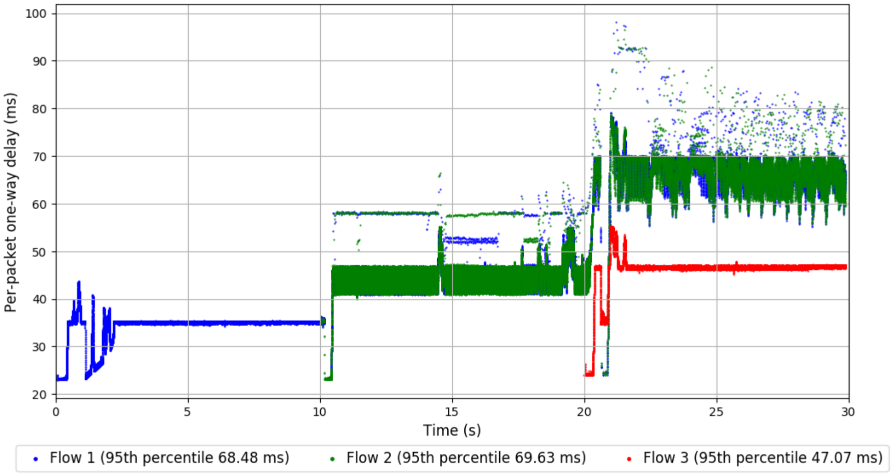
```
Run 4: Statistics of TCP BBR

Start at: 2017-10-12 04:51:19
End at: 2017-10-12 04:51:49
Local clock offset: -0.467 ms
Remote clock offset: 1.513 ms

# Below is generated by plot.py at 2017-10-12 10:01:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.91 Mbit/s
95th percentile per-packet one-way delay: 68.819 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 55.79 Mbit/s
95th percentile per-packet one-way delay: 68.477 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 35.95 Mbit/s
95th percentile per-packet one-way delay: 69.627 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 48.74 Mbit/s
95th percentile per-packet one-way delay: 47.074 ms
Loss rate: 0.83%
```

Run 4: Report of TCP BBR — Data Link



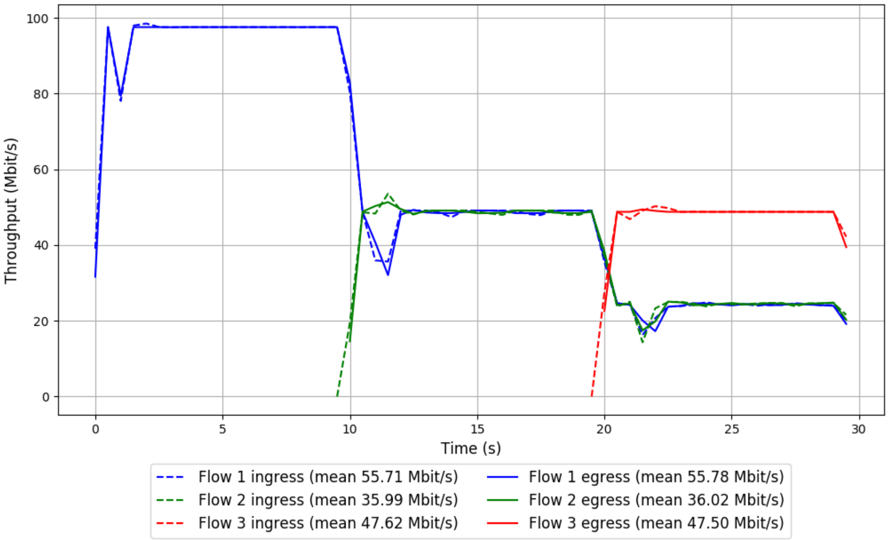


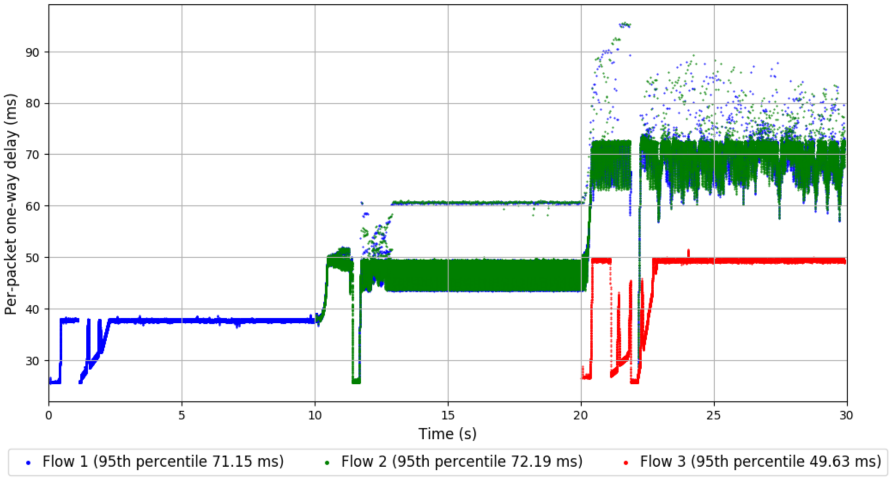
```
Run 5: Statistics of TCP BBR

Start at: 2017-10-12 05:10:33
End at: 2017-10-12 05:11:03
Local clock offset: -0.542 ms
Remote clock offset: -0.847 ms

# Below is generated by plot.py at 2017-10-12 10:01:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.50 Mbit/s
95th percentile per-packet one-way delay: 71.487 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 55.78 Mbit/s
95th percentile per-packet one-way delay: 71.149 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 36.02 Mbit/s
95th percentile per-packet one-way delay: 72.186 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 47.50 Mbit/s
95th percentile per-packet one-way delay: 49.626 ms
Loss rate: 0.79%
```

Run 5: Report of TCP BBR — Data Link



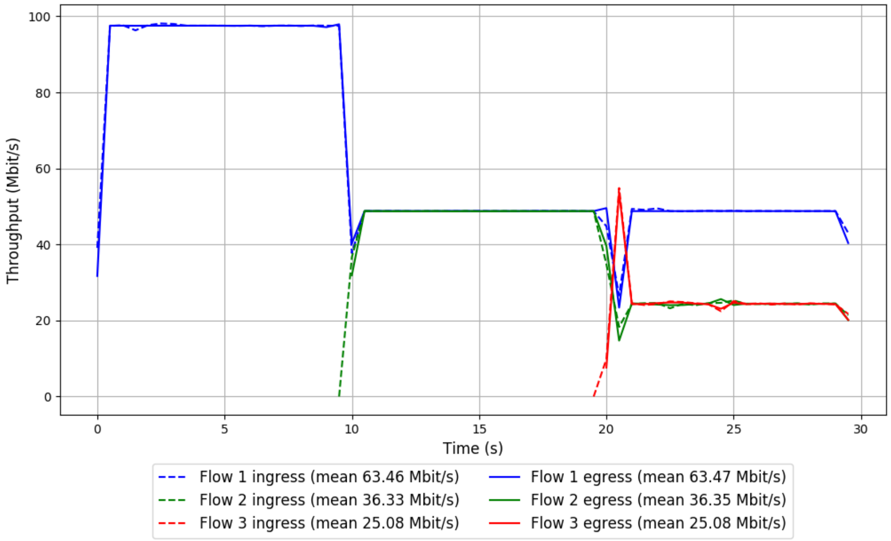


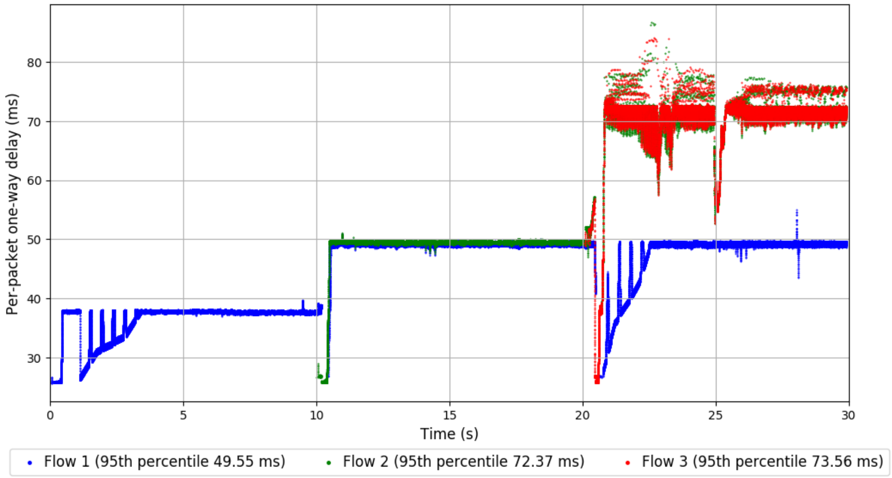
```
Run 6: Statistics of TCP BBR

Start at: 2017-10-12 05:29:53
End at: 2017-10-12 05:30:23
Local clock offset: -0.37 ms
Remote clock offset: -0.986 ms

# Below is generated by plot.py at 2017-10-12 10:01:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 72.068 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 63.47 Mbit/s
95th percentile per-packet one-way delay: 49.548 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 36.35 Mbit/s
95th percentile per-packet one-way delay: 72.366 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 25.08 Mbit/s
95th percentile per-packet one-way delay: 73.562 ms
Loss rate: 1.01%
```

Run 6: Report of TCP BBR — Data Link



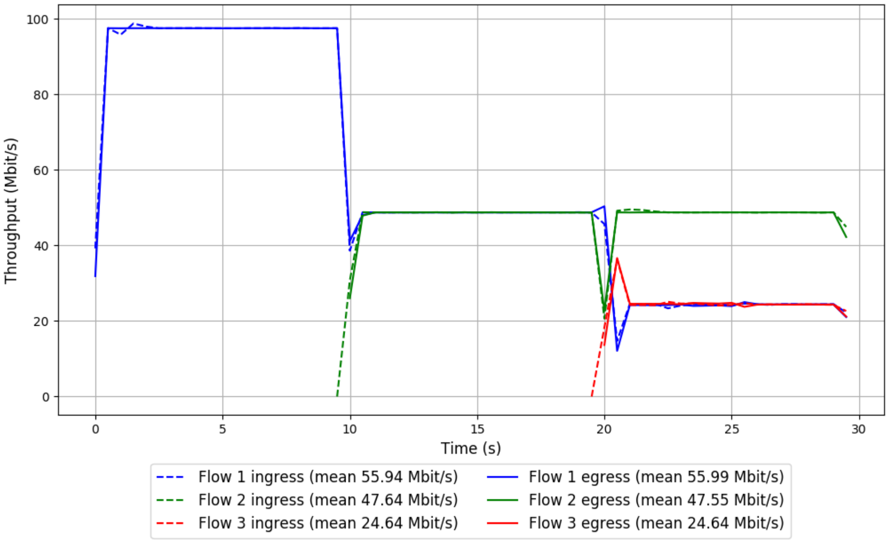


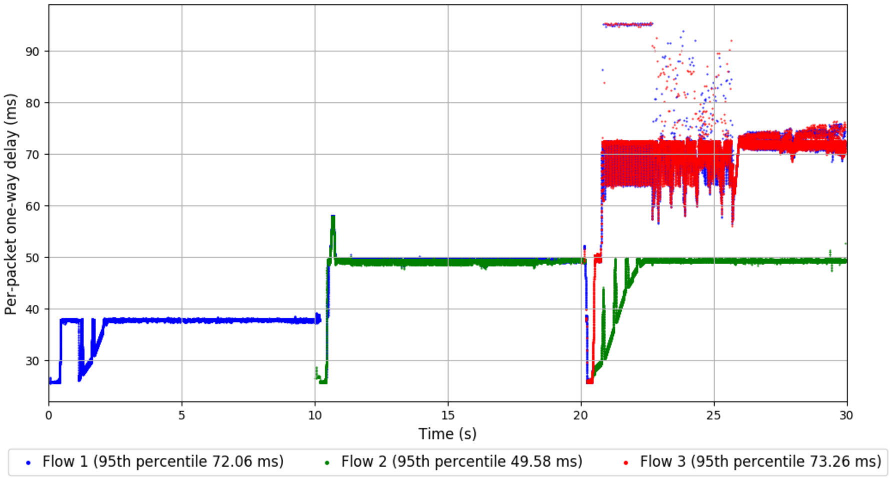
```
Run 7: Statistics of TCP BBR

Start at: 2017-10-12 05:48:59
End at: 2017-10-12 05:49:29
Local clock offset: -0.056 ms
Remote clock offset: -1.502 ms

# Below is generated by plot.py at 2017-10-12 10:01:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.79 Mbit/s
95th percentile per-packet one-way delay: 72.194 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 55.99 Mbit/s
95th percentile per-packet one-way delay: 72.061 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 47.55 Mbit/s
95th percentile per-packet one-way delay: 49.580 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 24.64 Mbit/s
95th percentile per-packet one-way delay: 73.261 ms
Loss rate: 1.00%
```

Run 7: Report of TCP BBR — Data Link



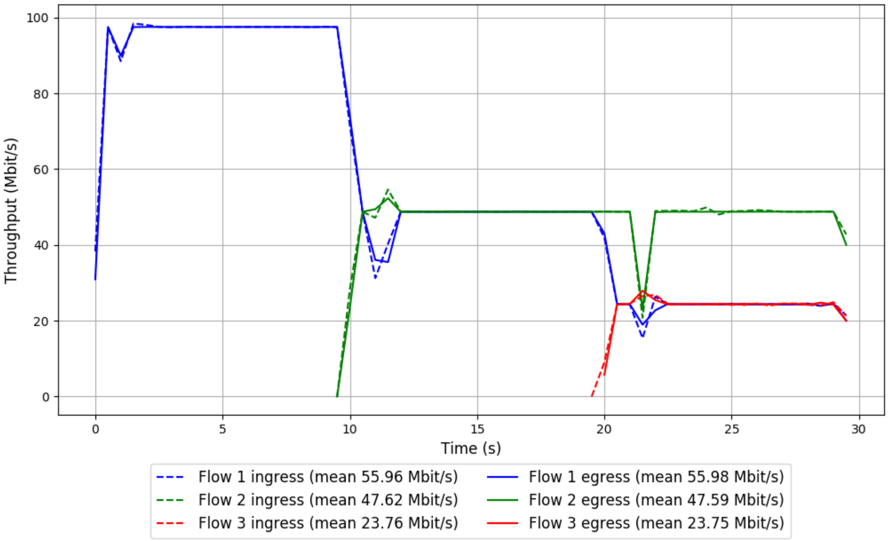


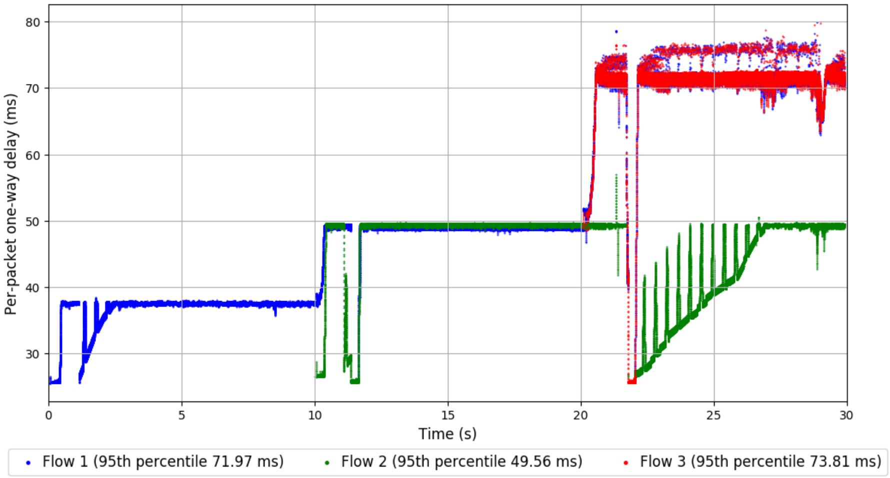
```
Run 8: Statistics of TCP BBR

Start at: 2017-10-12 06:08:08
End at: 2017-10-12 06:08:38
Local clock offset: 0.045 ms
Remote clock offset: -2.455 ms

# Below is generated by plot.py at 2017-10-12 10:01:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.54 Mbit/s
95th percentile per-packet one-way delay: 72.040 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 55.98 Mbit/s
95th percentile per-packet one-way delay: 71.968 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 47.59 Mbit/s
95th percentile per-packet one-way delay: 49.561 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 23.75 Mbit/s
95th percentile per-packet one-way delay: 73.811 ms
Loss rate: 1.03%
```

Run 8: Report of TCP BBR — Data Link



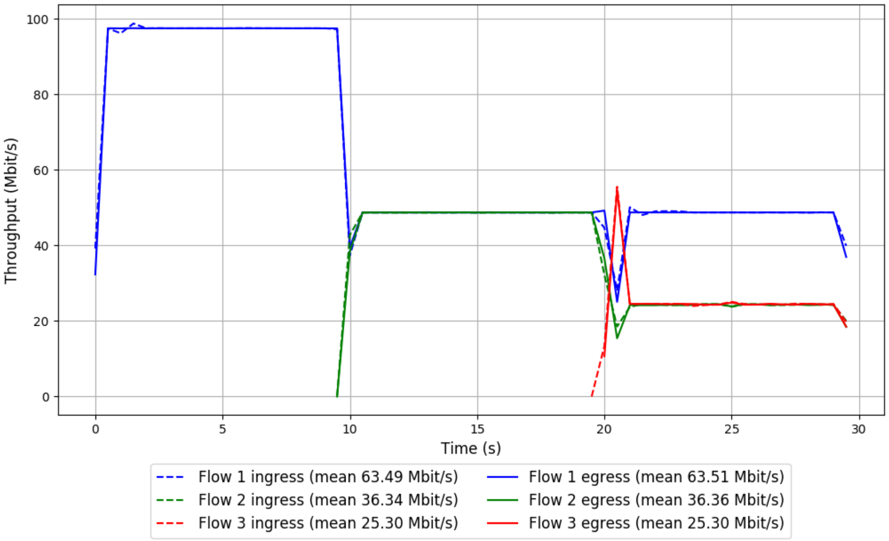


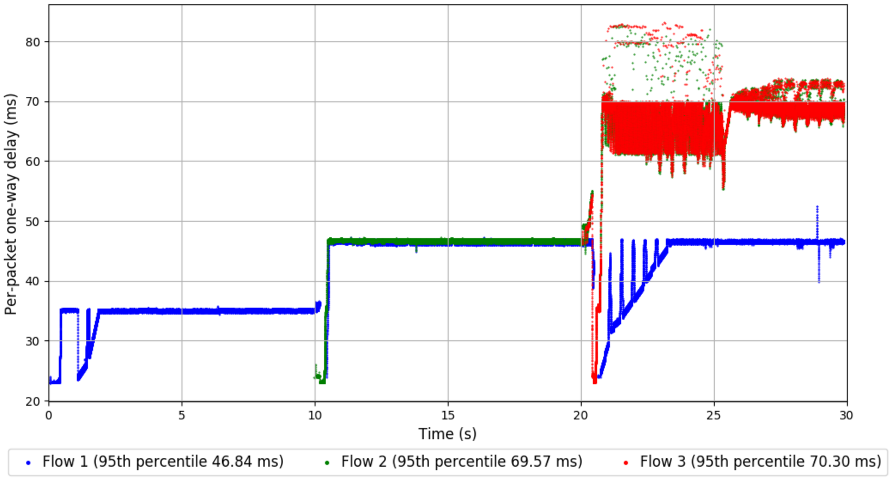
```
Run 9: Statistics of TCP BBR

Start at: 2017-10-12 06:27:14
End at: 2017-10-12 06:27:44
Local clock offset: -0.019 ms
Remote clock offset: -0.784 ms

# Below is generated by plot.py at 2017-10-12 10:03:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.13 Mbit/s
95th percentile per-packet one-way delay: 69.209 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 63.51 Mbit/s
95th percentile per-packet one-way delay: 46.842 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 36.36 Mbit/s
95th percentile per-packet one-way delay: 69.567 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 25.30 Mbit/s
95th percentile per-packet one-way delay: 70.295 ms
Loss rate: 0.95%
```

Run 9: Report of TCP BBR — Data Link



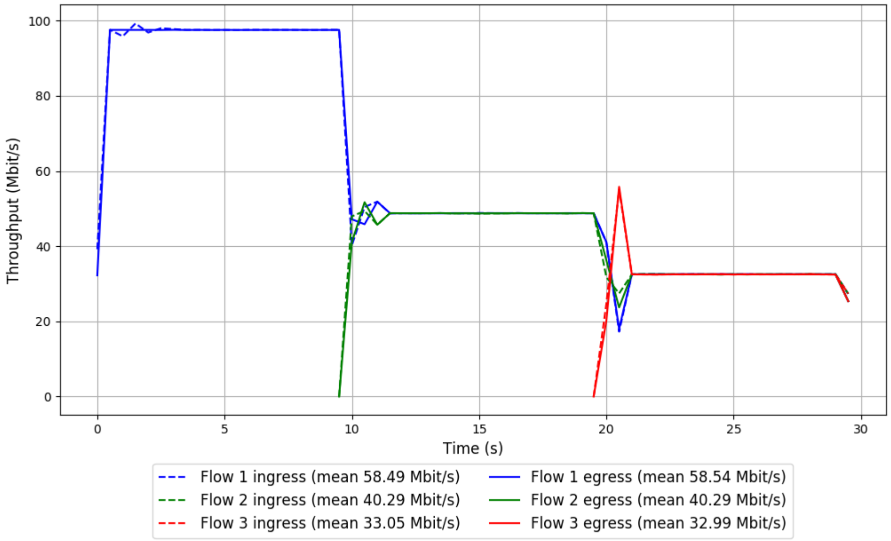


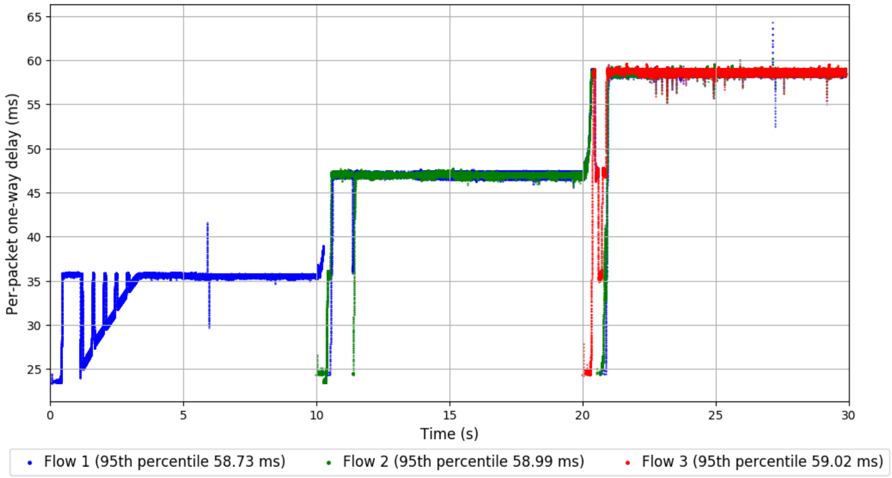
```
Run 10: Statistics of TCP BBR

Start at: 2017-10-12 06:46:18
End at: 2017-10-12 06:46:48
Local clock offset: -0.004 ms
Remote clock offset: -1.792 ms

# Below is generated by plot.py at 2017-10-12 10:03:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.36 Mbit/s
95th percentile per-packet one-way delay: 58.940 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 58.54 Mbit/s
95th percentile per-packet one-way delay: 58.729 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 40.29 Mbit/s
95th percentile per-packet one-way delay: 58.987 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 32.99 Mbit/s
95th percentile per-packet one-way delay: 59.022 ms
Loss rate: 0.88%
```

Run 10: Report of TCP BBR — Data Link





```
Run 1: Statistics of TCP Cubic

Start at: 2017-10-12 03:47:11
End at: 2017-10-12 03:47:41
Local clock offset: -0.283 ms
Remote clock offset: -2.789 ms
```

Run 1: Report of TCP Cubic — Data Link

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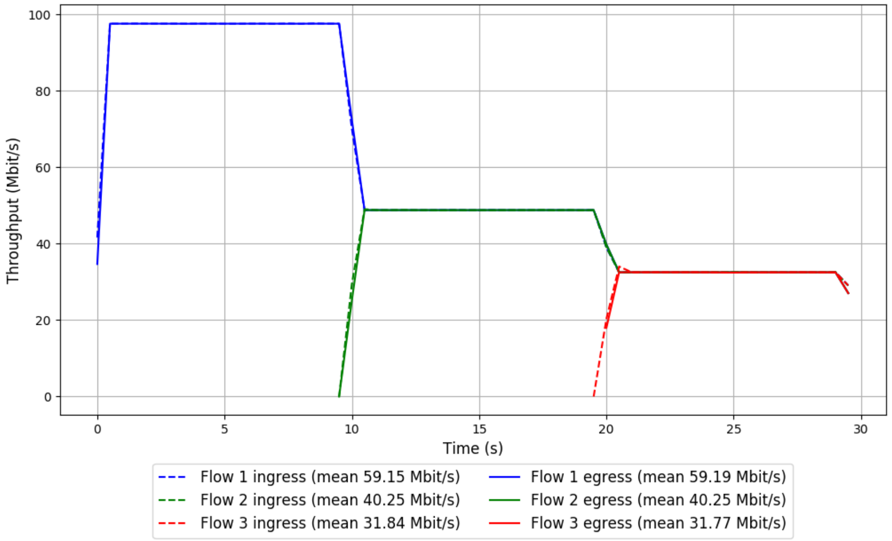
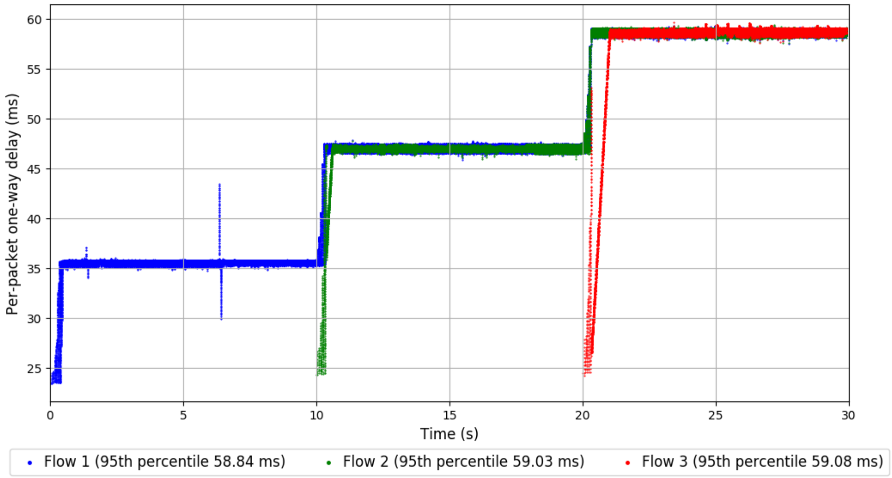
```
Run 2: Statistics of TCP Cubic

Start at: 2017-10-12 04:06:12
End at: 2017-10-12 04:06:42
Local clock offset: -0.315 ms
Remote clock offset: -0.187 ms

# Below is generated by plot.py at 2017-10-12 10:03:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 58.997 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 59.19 Mbit/s
95th percentile per-packet one-way delay: 58.838 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 40.25 Mbit/s
95th percentile per-packet one-way delay: 59.029 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 31.77 Mbit/s
95th percentile per-packet one-way delay: 59.080 ms
Loss rate: 0.92%
```

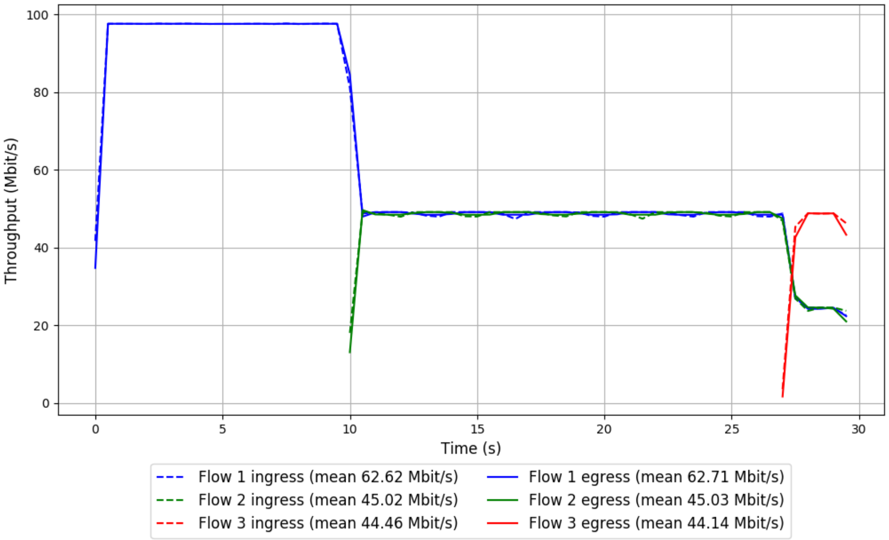
Run 2: Report of TCP Cubic — Data Link

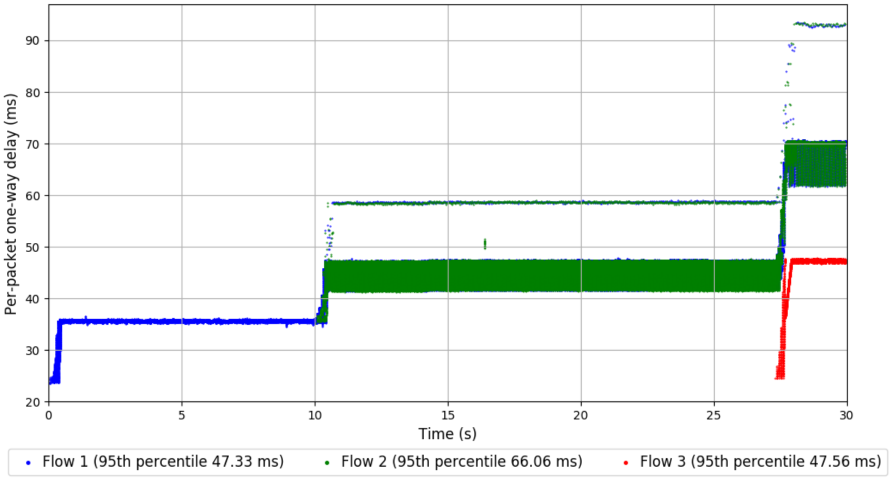




```
Run 3: Statistics of TCP Cubic

Start at: 2017-10-12 04:25:19
End at: 2017-10-12 04:25:50
Local clock offset: -0.235 ms
Remote clock offset: 0.361 ms

# Below is generated by plot.py at 2017-10-12 10:03:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.55 Mbit/s
95th percentile per-packet one-way delay: 47.584 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 62.71 Mbit/s
95th percentile per-packet one-way delay: 47.331 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 45.03 Mbit/s
95th percentile per-packet one-way delay: 66.064 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 44.14 Mbit/s
95th percentile per-packet one-way delay: 47.565 ms
Loss rate: 3.13%
```

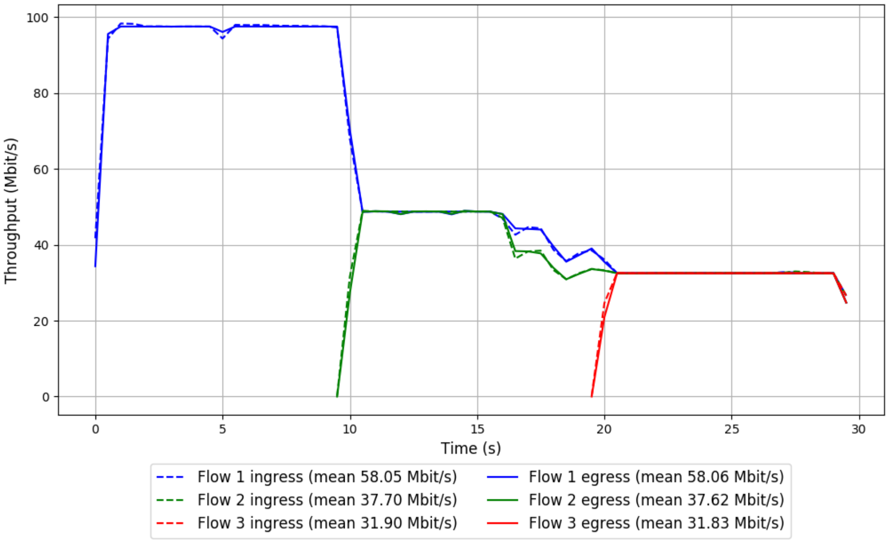
Run 3: Report of TCP Cubic — Data Link

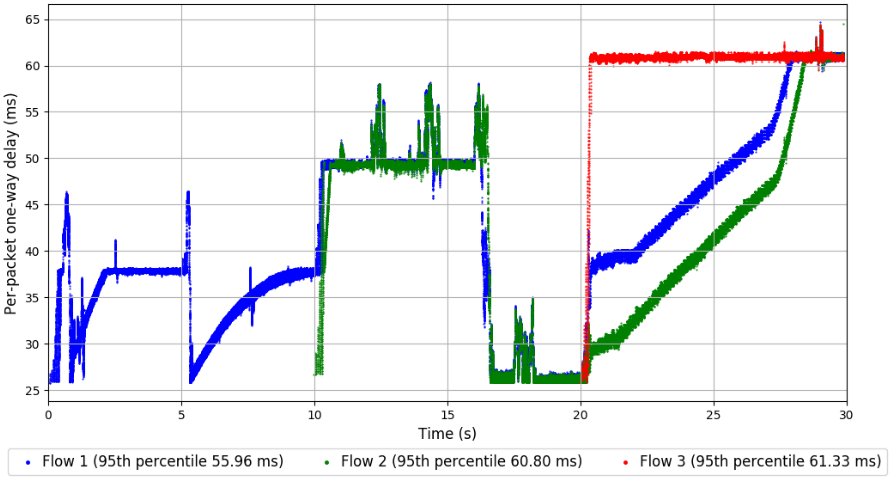




```
Run 4: Statistics of TCP Cubic

Start at: 2017-10-12 04:44:21
End at: 2017-10-12 04:44:51
Local clock offset: -0.219 ms
Remote clock offset: -1.233 ms

# Below is generated by plot.py at 2017-10-12 10:03:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.72 Mbit/s
95th percentile per-packet one-way delay: 61.064 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 58.06 Mbit/s
95th percentile per-packet one-way delay: 55.960 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 37.62 Mbit/s
95th percentile per-packet one-way delay: 60.797 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 31.83 Mbit/s
95th percentile per-packet one-way delay: 61.332 ms
Loss rate: 0.90%
```

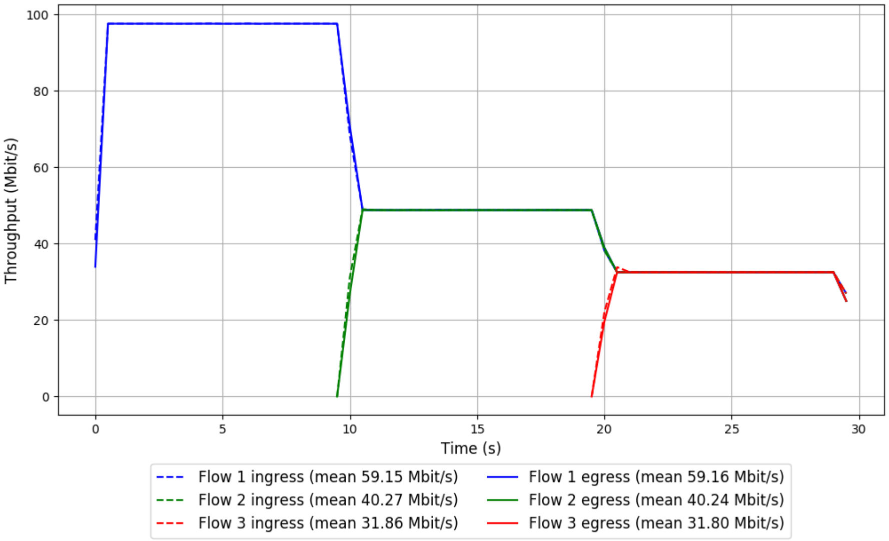
Run 4: Report of TCP Cubic — Data Link

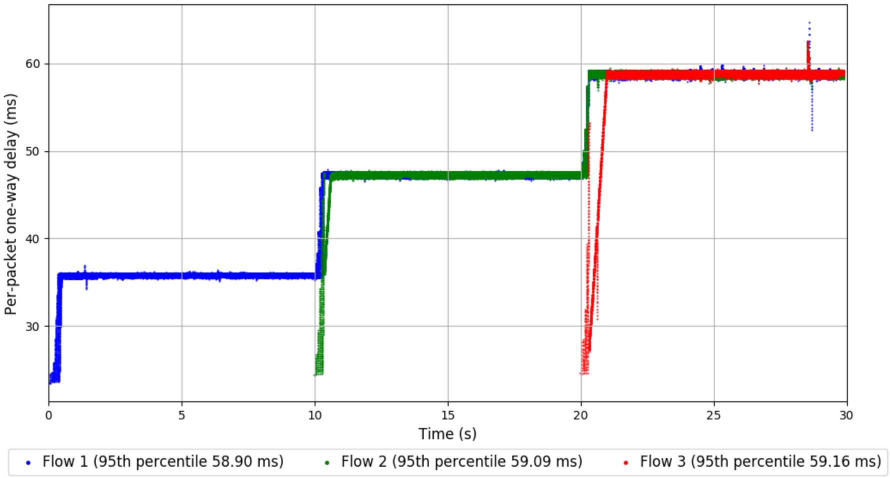




```
Run 5: Statistics of TCP Cubic

Start at: 2017-10-12 05:03:36
End at: 2017-10-12 05:04:06
Local clock offset: -0.602 ms
Remote clock offset: 1.14 ms

# Below is generated by plot.py at 2017-10-12 10:03:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.54 Mbit/s
95th percentile per-packet one-way delay: 59.074 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 59.16 Mbit/s
95th percentile per-packet one-way delay: 58.901 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 40.24 Mbit/s
95th percentile per-packet one-way delay: 59.094 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 31.80 Mbit/s
95th percentile per-packet one-way delay: 59.160 ms
Loss rate: 0.91%
```

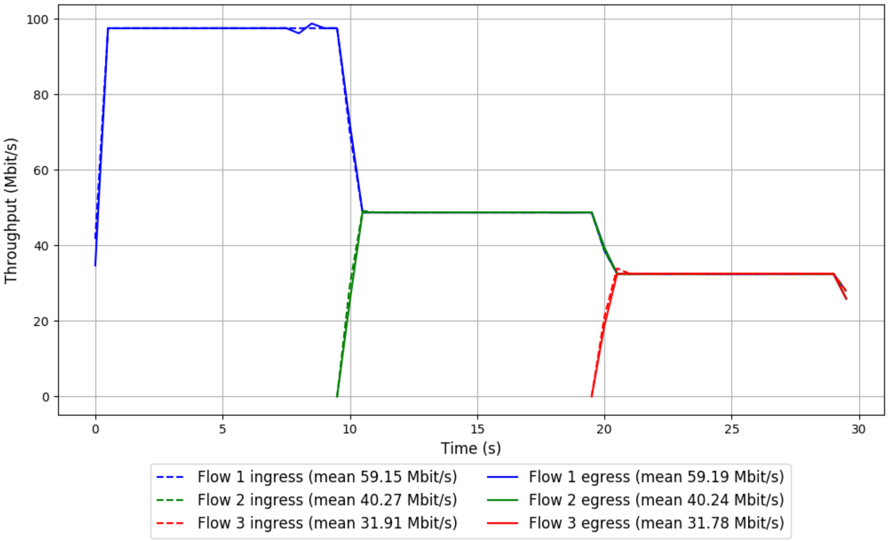
Run 5: Report of TCP Cubic — Data Link

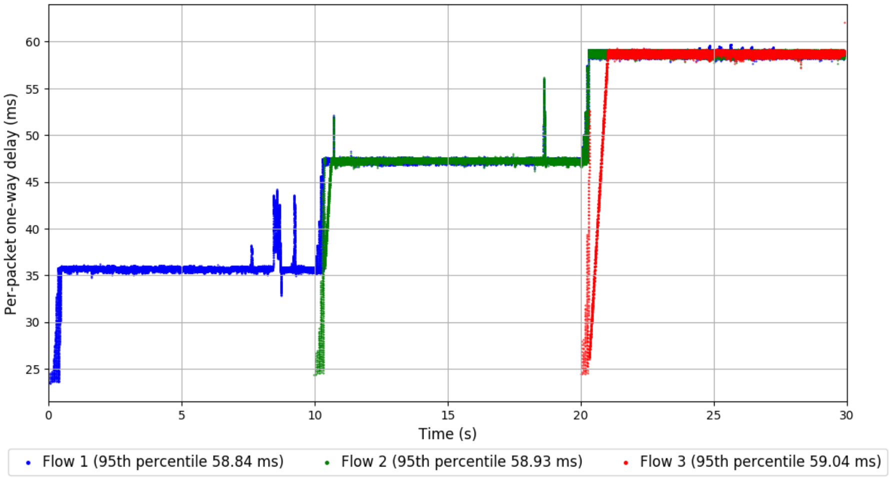




```
Run 6: Statistics of TCP Cubic

Start at: 2017-10-12 05:22:55
End at: 2017-10-12 05:23:25
Local clock offset: -0.615 ms
Remote clock offset: 1.149 ms

# Below is generated by plot.py at 2017-10-12 10:03:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.54 Mbit/s
95th percentile per-packet one-way delay: 58.925 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 59.19 Mbit/s
95th percentile per-packet one-way delay: 58.844 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 40.24 Mbit/s
95th percentile per-packet one-way delay: 58.929 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 31.78 Mbit/s
95th percentile per-packet one-way delay: 59.039 ms
Loss rate: 0.91%
```

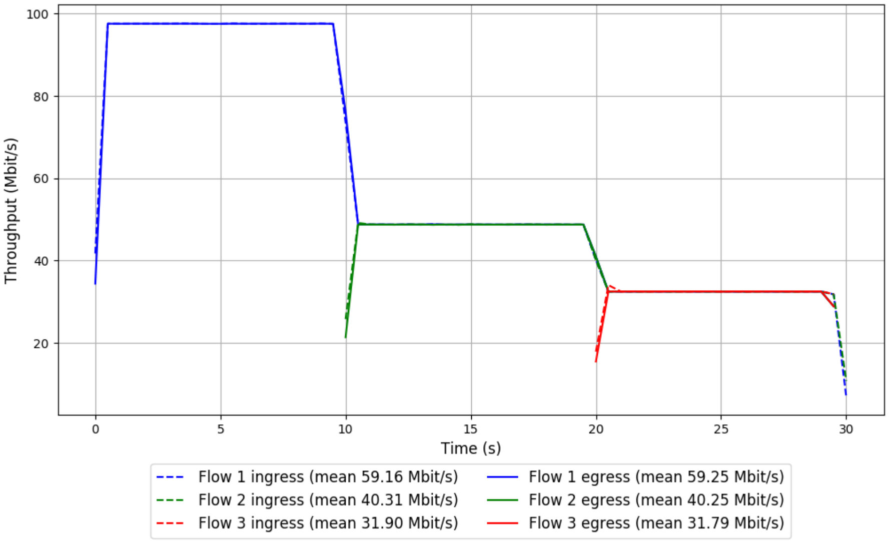
Run 6: Report of TCP Cubic — Data Link

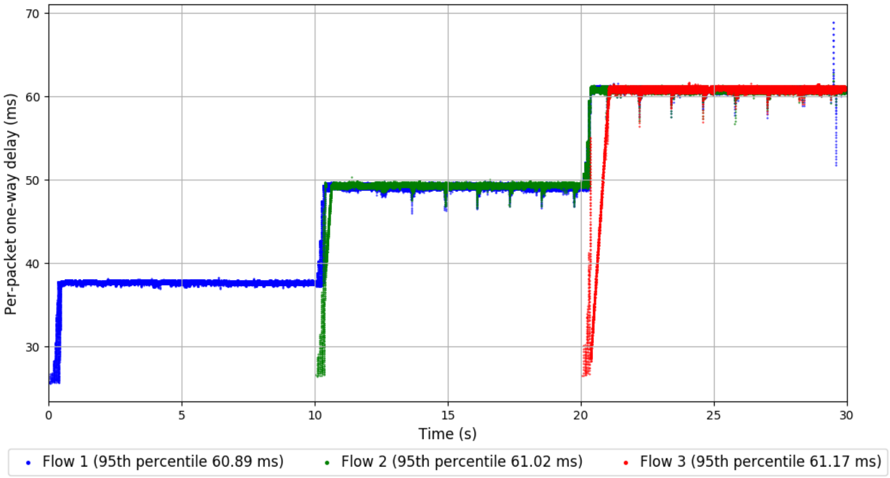




```
Run 7: Statistics of TCP Cubic

Start at: 2017-10-12 05:42:04
End at: 2017-10-12 05:42:34
Local clock offset: -0.107 ms
Remote clock offset: -1.1 ms

# Below is generated by plot.py at 2017-10-12 10:03:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 60.983 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 59.25 Mbit/s
95th percentile per-packet one-way delay: 60.886 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 40.25 Mbit/s
95th percentile per-packet one-way delay: 61.023 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 31.79 Mbit/s
95th percentile per-packet one-way delay: 61.172 ms
Loss rate: 1.09%
```

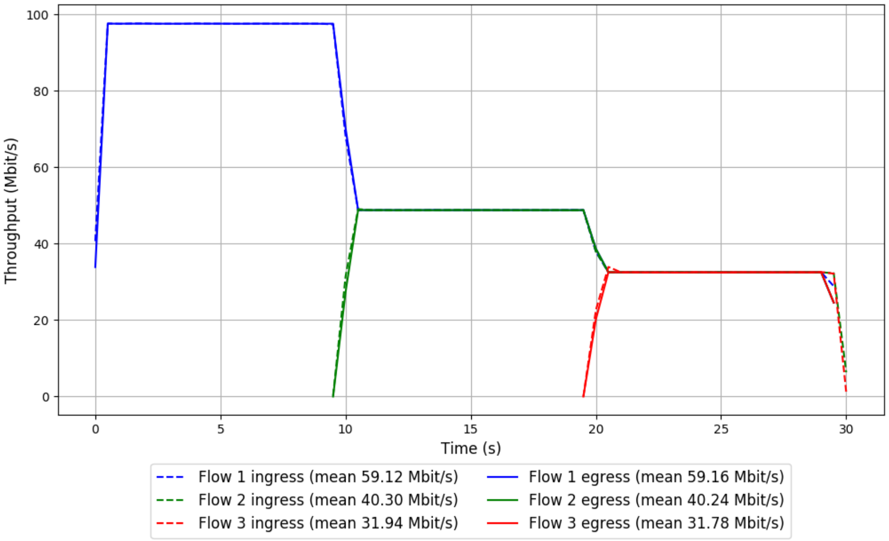
Run 7: Report of TCP Cubic — Data Link

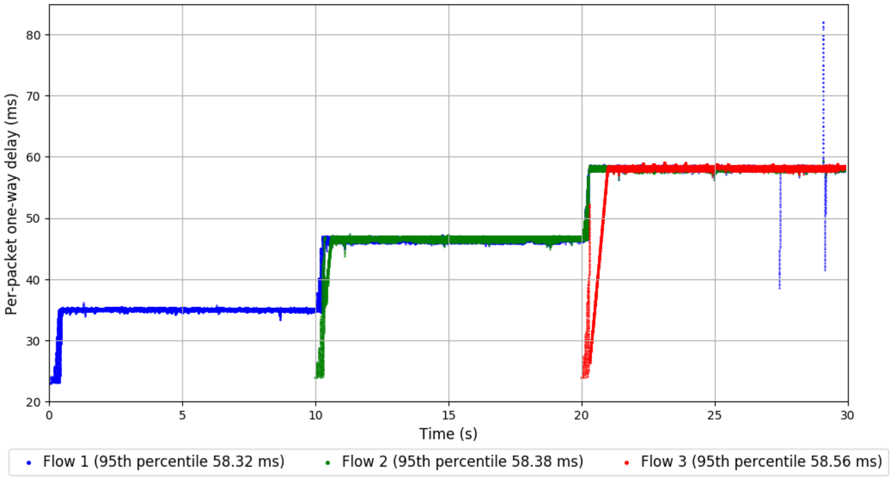




```
Run 8: Statistics of TCP Cubic

Start at: 2017-10-12 06:01:11
End at: 2017-10-12 06:01:41
Local clock offset: -0.071 ms
Remote clock offset: 0.408 ms

# Below is generated by plot.py at 2017-10-12 10:04:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.54 Mbit/s
95th percentile per-packet one-way delay: 58.457 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 59.16 Mbit/s
95th percentile per-packet one-way delay: 58.324 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 40.24 Mbit/s
95th percentile per-packet one-way delay: 58.378 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 31.78 Mbit/s
95th percentile per-packet one-way delay: 58.560 ms
Loss rate: 1.95%
```

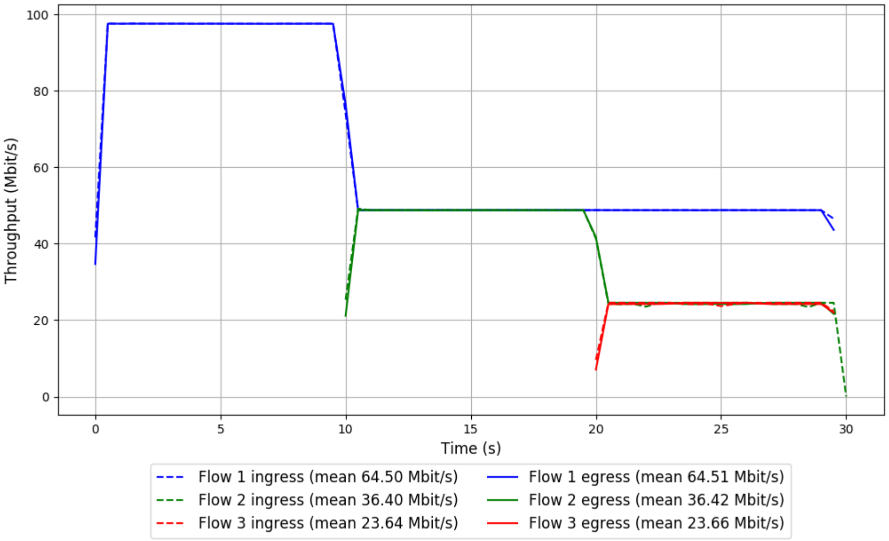
Run 8: Report of TCP Cubic — Data Link

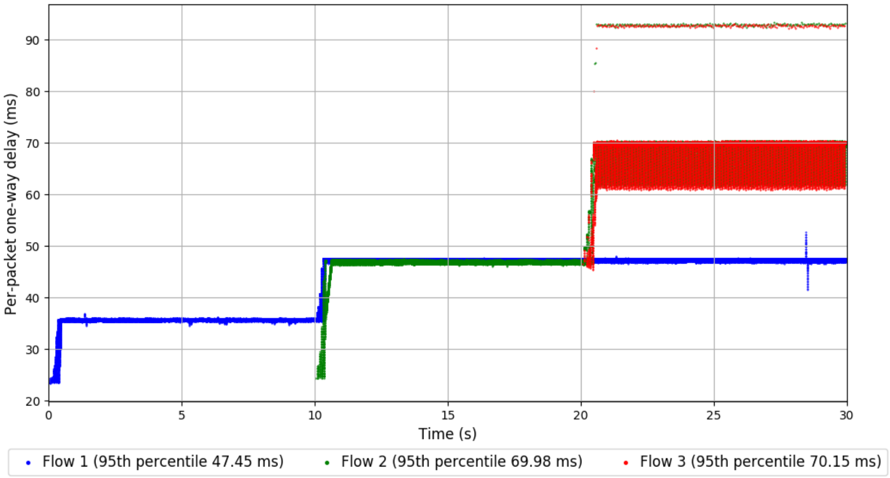




```
Run 9: Statistics of TCP Cubic

Start at: 2017-10-12 06:20:20
End at: 2017-10-12 06:20:50
Local clock offset: 0.049 ms
Remote clock offset: -0.969 ms

# Below is generated by plot.py at 2017-10-12 10:04:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 69.838 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 64.51 Mbit/s
95th percentile per-packet one-way delay: 47.452 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 36.42 Mbit/s
95th percentile per-packet one-way delay: 69.983 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 23.66 Mbit/s
95th percentile per-packet one-way delay: 70.146 ms
Loss rate: 0.96%
```

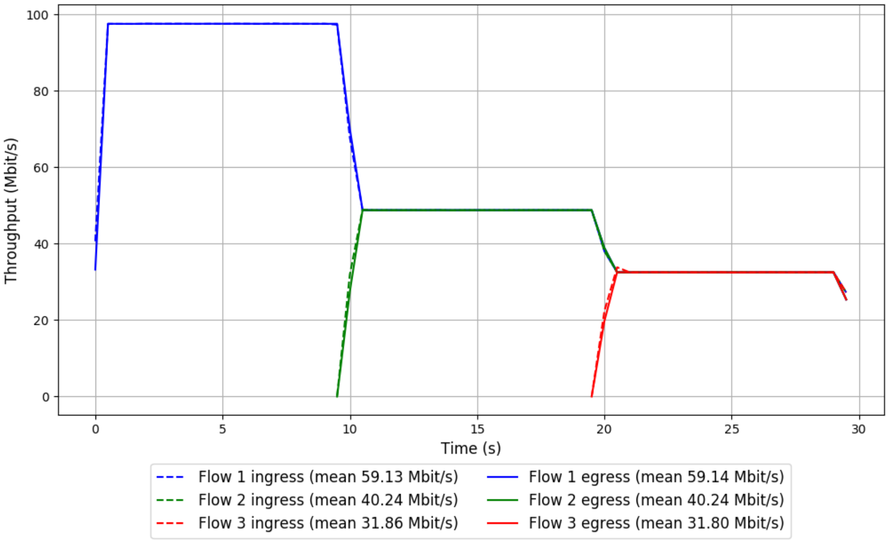
Run 9: Report of TCP Cubic — Data Link

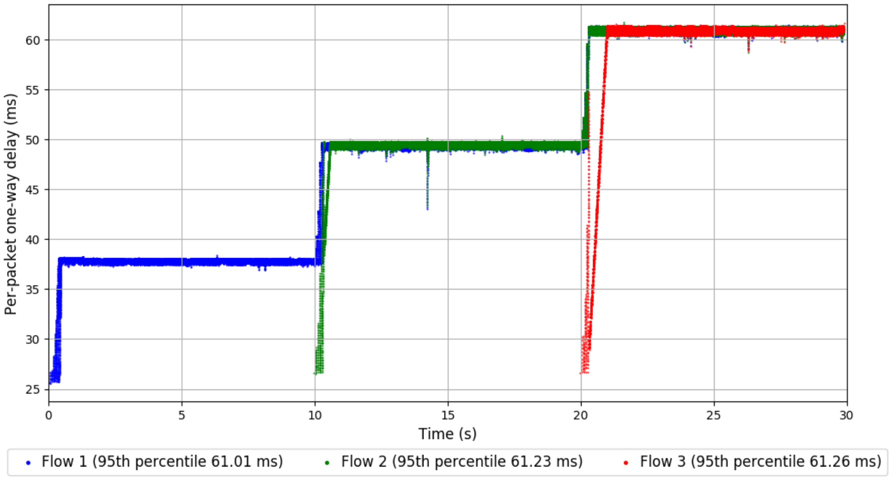




```
Run 10: Statistics of TCP Cubic

Start at: 2017-10-12 06:39:24
End at: 2017-10-12 06:39:54
Local clock offset: 0.061 ms
Remote clock offset: -3.753 ms

# Below is generated by plot.py at 2017-10-12 10:04:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.54 Mbit/s
95th percentile per-packet one-way delay: 61.159 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 59.14 Mbit/s
95th percentile per-packet one-way delay: 61.011 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 40.24 Mbit/s
95th percentile per-packet one-way delay: 61.235 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 31.80 Mbit/s
95th percentile per-packet one-way delay: 61.261 ms
Loss rate: 0.91%
```

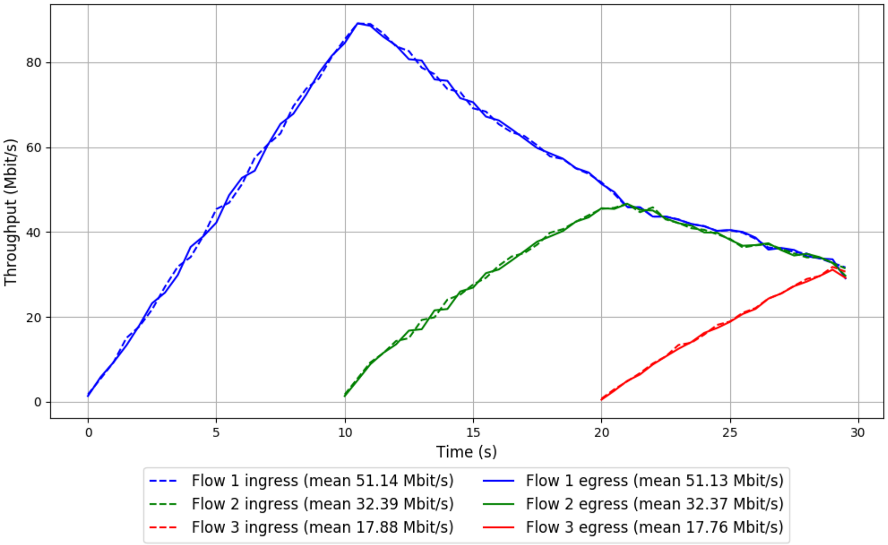
Run 10: Report of TCP Cubic — Data Link

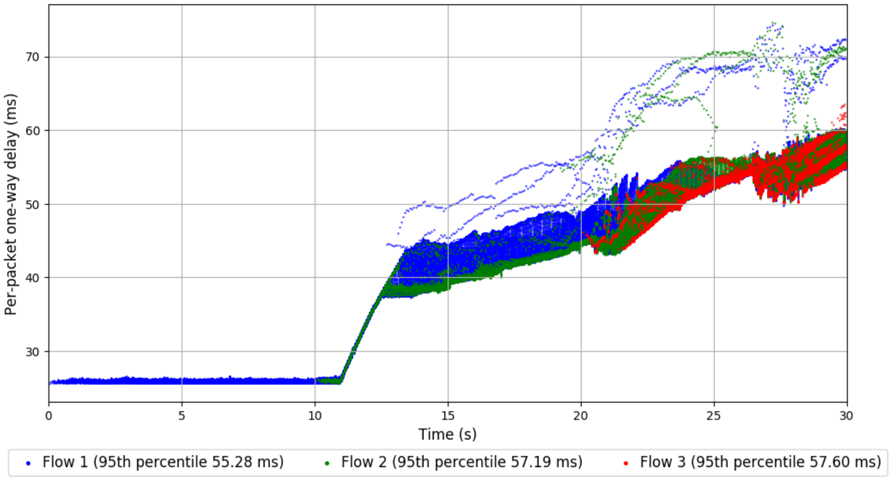




```
Run 1: Statistics of LEDBAT

Start at: 2017-10-12 03:39:10
End at: 2017-10-12 03:39:40
Local clock offset: -0.272 ms
Remote clock offset: -2.829 ms

# Below is generated by plot.py at 2017-10-12 10:04:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.52 Mbit/s
95th percentile per-packet one-way delay: 56.398 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 51.13 Mbit/s
95th percentile per-packet one-way delay: 55.276 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 32.37 Mbit/s
95th percentile per-packet one-way delay: 57.188 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 17.76 Mbit/s
95th percentile per-packet one-way delay: 57.602 ms
Loss rate: 1.54%
```

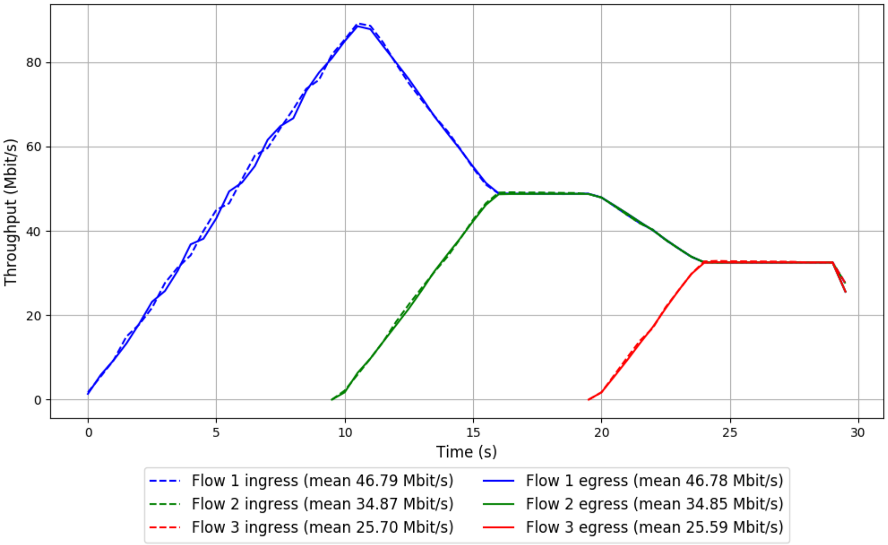
Run 1: Report of LEDBAT — Data Link

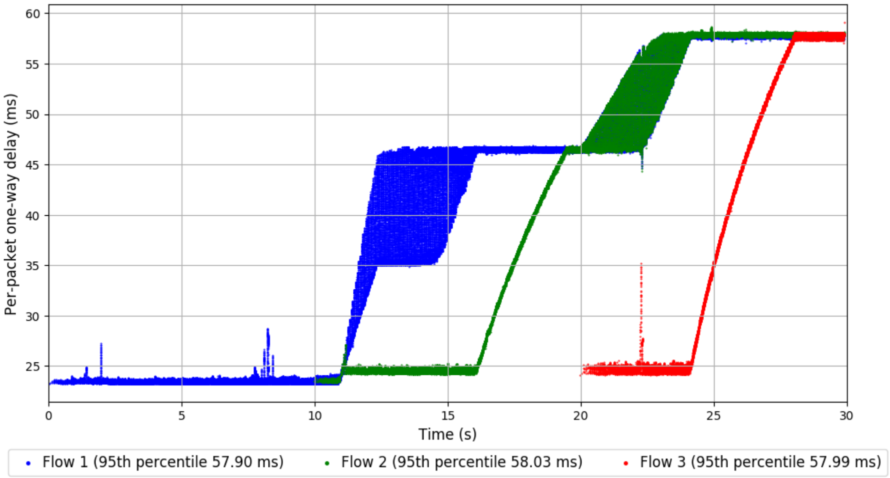




```
Run 2: Statistics of LEDBAT

Start at: 2017-10-12 03:58:12
End at: 2017-10-12 03:58:42
Local clock offset: -0.23 ms
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2017-10-12 10:04:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.51 Mbit/s
95th percentile per-packet one-way delay: 57.970 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 46.78 Mbit/s
95th percentile per-packet one-way delay: 57.900 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 34.85 Mbit/s
95th percentile per-packet one-way delay: 58.030 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 25.59 Mbit/s
95th percentile per-packet one-way delay: 57.993 ms
Loss rate: 1.12%
```

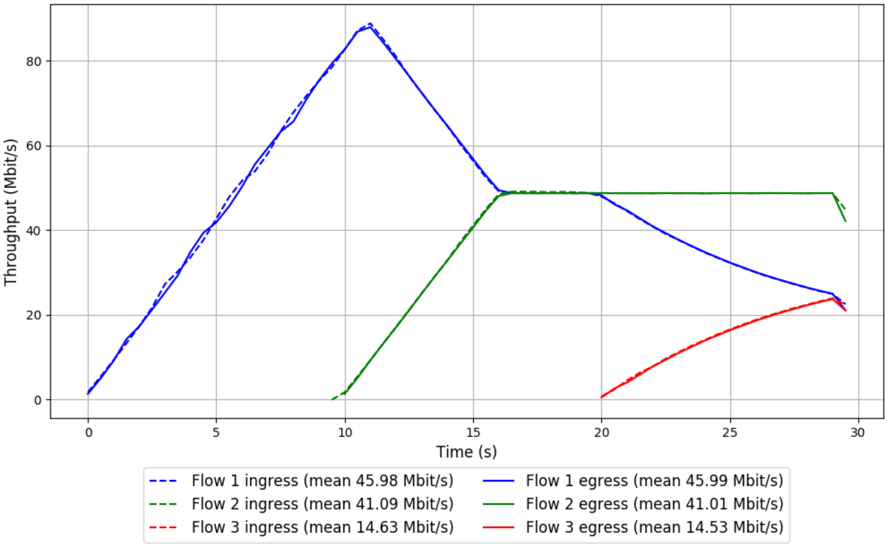
Run 2: Report of LEDBAT — Data Link

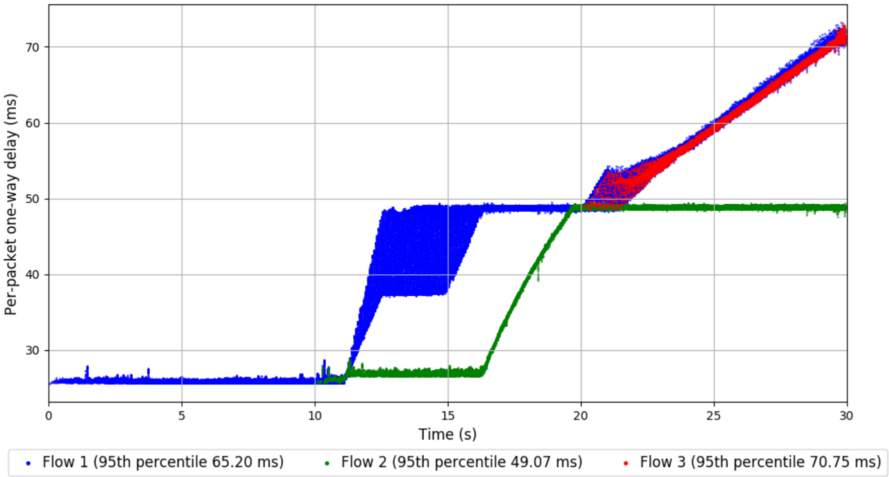




```
Run 3: Statistics of LEDBAT

Start at: 2017-10-12 04:17:18
End at: 2017-10-12 04:17:48
Local clock offset: -0.326 ms
Remote clock offset: -2.031 ms

# Below is generated by plot.py at 2017-10-12 10:04:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.09 Mbit/s
95th percentile per-packet one-way delay: 65.762 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 45.99 Mbit/s
95th percentile per-packet one-way delay: 65.202 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 41.01 Mbit/s
95th percentile per-packet one-way delay: 49.067 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 14.53 Mbit/s
95th percentile per-packet one-way delay: 70.747 ms
Loss rate: 1.65%
```

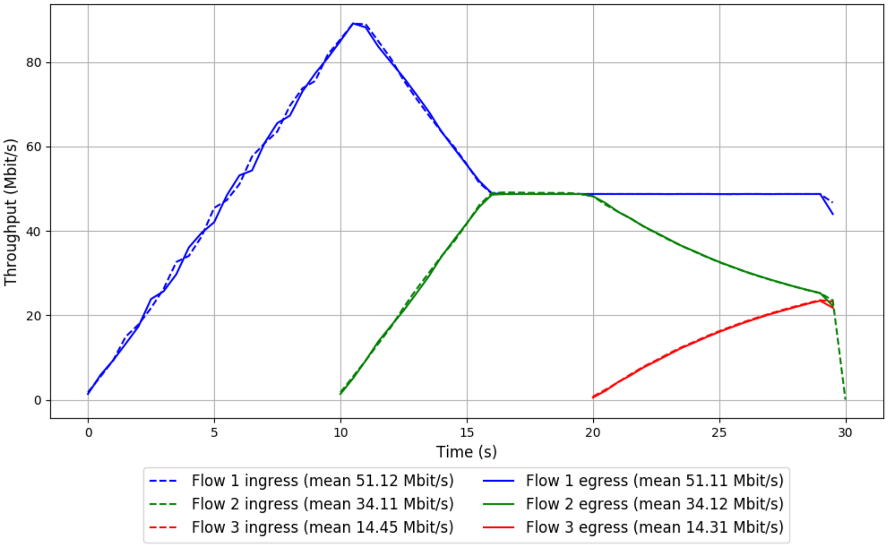
Run 3: Report of LEDBAT — Data Link

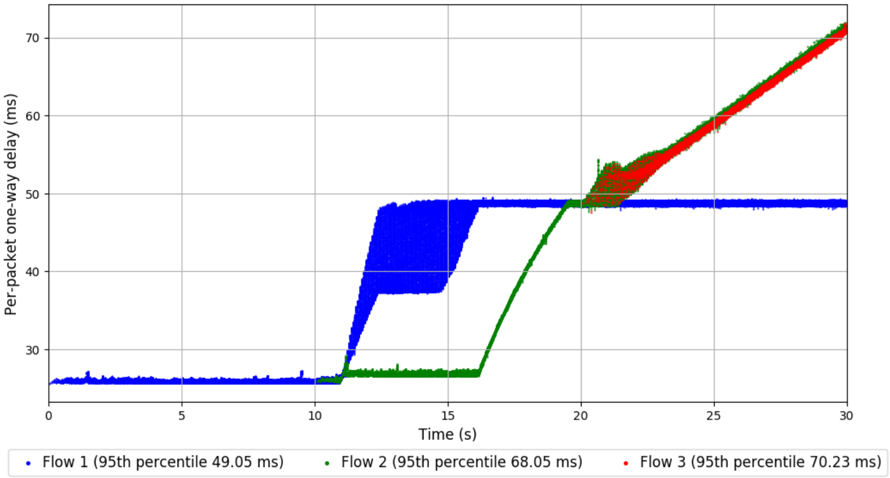




```
Run 4: Statistics of LEDBAT

Start at: 2017-10-12 04:36:20
End at: 2017-10-12 04:36:50
Local clock offset: -0.204 ms
Remote clock offset: -1.363 ms

# Below is generated by plot.py at 2017-10-12 10:04:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.53 Mbit/s
95th percentile per-packet one-way delay: 65.290 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 51.11 Mbit/s
95th percentile per-packet one-way delay: 49.045 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 34.12 Mbit/s
95th percentile per-packet one-way delay: 68.051 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 14.31 Mbit/s
95th percentile per-packet one-way delay: 70.232 ms
Loss rate: 1.67%
```

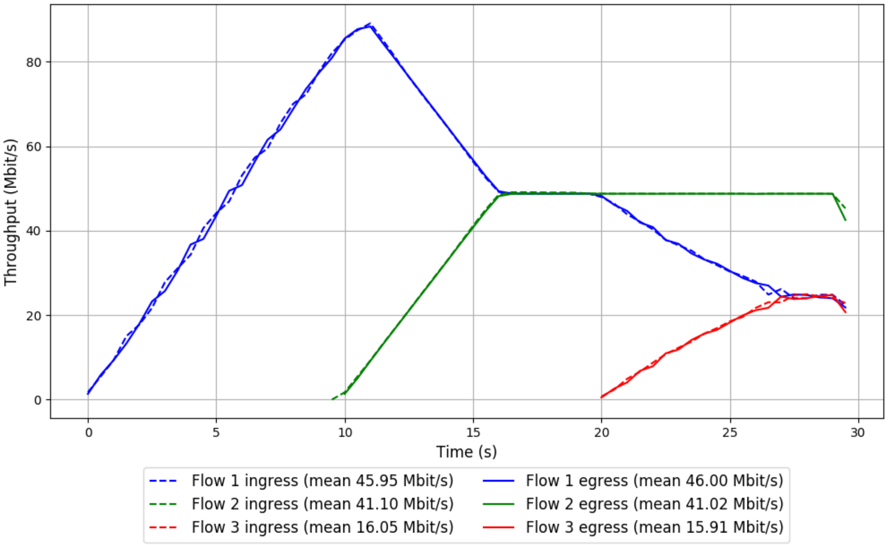
Run 4: Report of LEDBAT — Data Link

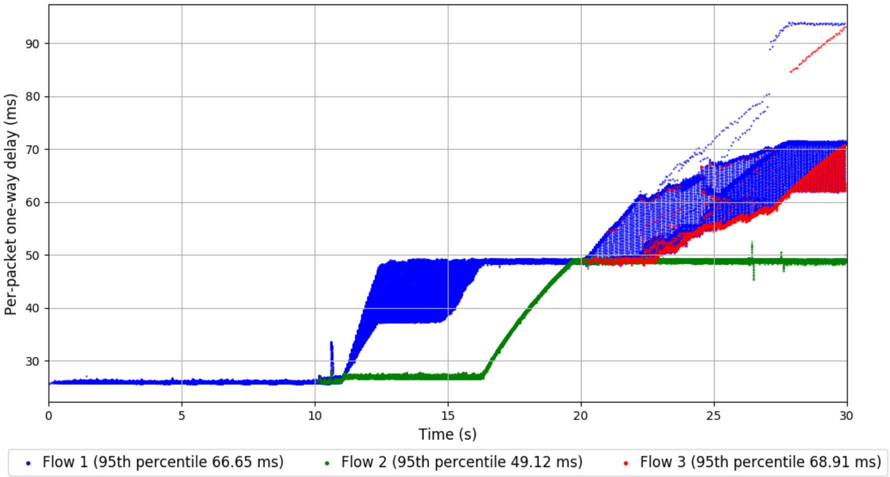




```
Run 5: Statistics of LEDBAT

Start at: 2017-10-12 04:55:30
End at: 2017-10-12 04:56:00
Local clock offset: -0.449 ms
Remote clock offset: -0.983 ms

# Below is generated by plot.py at 2017-10-12 10:04:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.56 Mbit/s
95th percentile per-packet one-way delay: 64.593 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 46.00 Mbit/s
95th percentile per-packet one-way delay: 66.647 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 41.02 Mbit/s
95th percentile per-packet one-way delay: 49.117 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 15.91 Mbit/s
95th percentile per-packet one-way delay: 68.914 ms
Loss rate: 1.64%
```

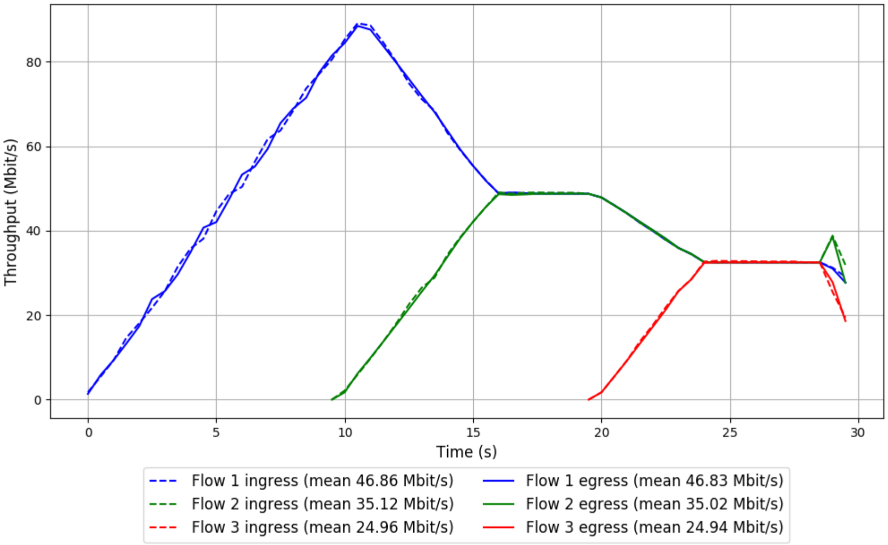
Run 5: Report of LEDBAT — Data Link

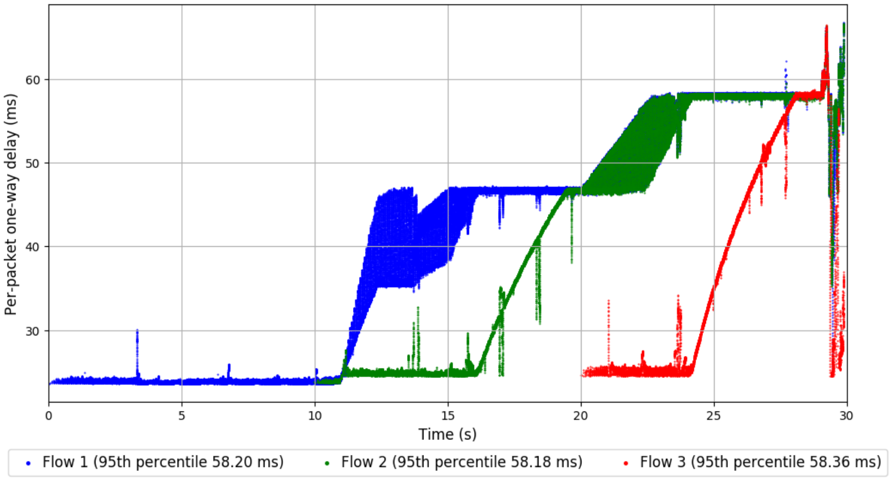




```
Run 6: Statistics of LEDBAT

Start at: 2017-10-12 05:14:47
End at: 2017-10-12 05:15:17
Local clock offset: -0.621 ms
Remote clock offset: 1.124 ms

# Below is generated by plot.py at 2017-10-12 10:05:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.44 Mbit/s
95th percentile per-packet one-way delay: 58.210 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 46.83 Mbit/s
95th percentile per-packet one-way delay: 58.199 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 35.02 Mbit/s
95th percentile per-packet one-way delay: 58.181 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 24.94 Mbit/s
95th percentile per-packet one-way delay: 58.357 ms
Loss rate: 0.46%
```

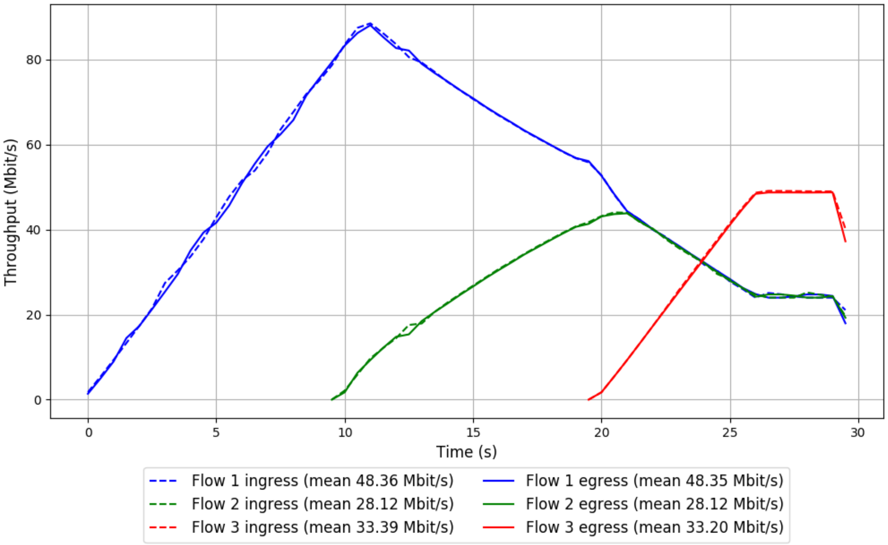
Run 6: Report of LEDBAT — Data Link

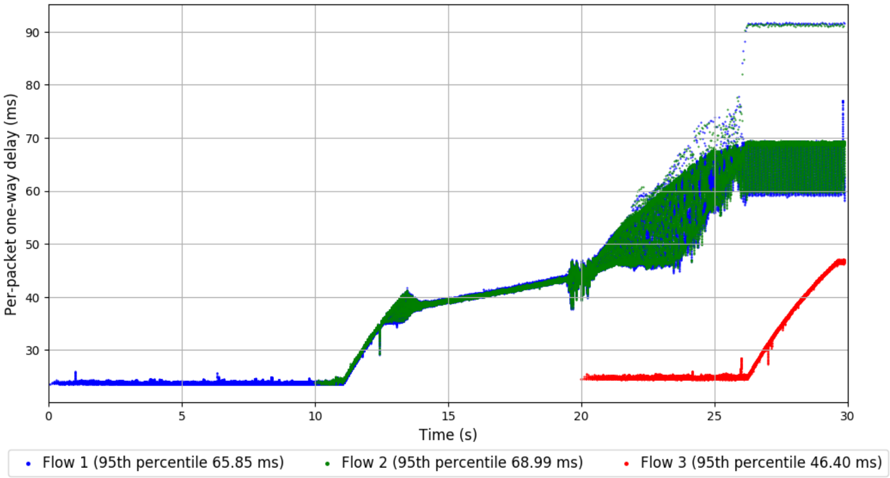




```
Run 7: Statistics of LEDBAT

Start at: 2017-10-12 05:34:02
End at: 2017-10-12 05:34:32
Local clock offset: -0.134 ms
Remote clock offset: 1.246 ms

# Below is generated by plot.py at 2017-10-12 10:05:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.11 Mbit/s
95th percentile per-packet one-way delay: 67.758 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 48.35 Mbit/s
95th percentile per-packet one-way delay: 65.854 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 28.12 Mbit/s
95th percentile per-packet one-way delay: 68.990 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 33.20 Mbit/s
95th percentile per-packet one-way delay: 46.402 ms
Loss rate: 1.12%
```

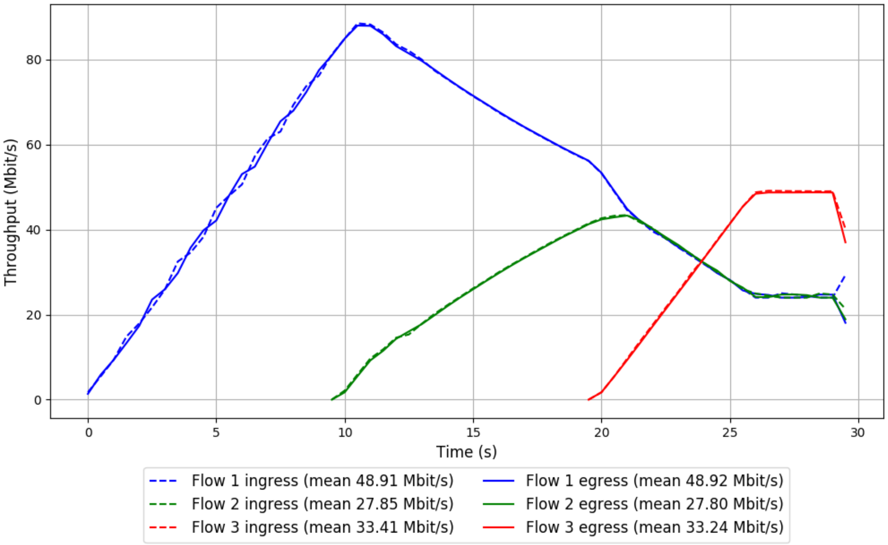
Run 7: Report of LEDBAT — Data Link

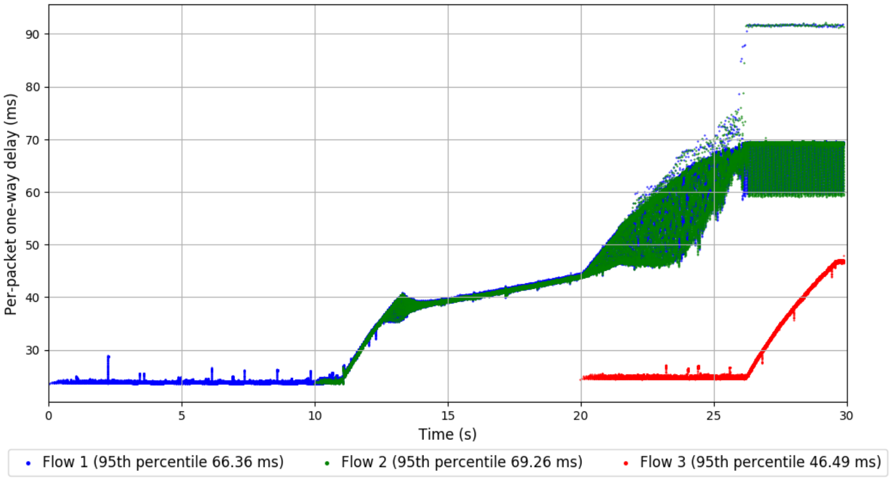




```
Run 8: Statistics of LEDBAT

Start at: 2017-10-12 05:53:09
End at: 2017-10-12 05:53:39
Local clock offset: -0.07 ms
Remote clock offset: 0.315 ms

# Below is generated by plot.py at 2017-10-12 10:05:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.46 Mbit/s
95th percentile per-packet one-way delay: 67.842 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 48.92 Mbit/s
95th percentile per-packet one-way delay: 66.365 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 27.80 Mbit/s
95th percentile per-packet one-way delay: 69.260 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 33.24 Mbit/s
95th percentile per-packet one-way delay: 46.490 ms
Loss rate: 1.16%
```

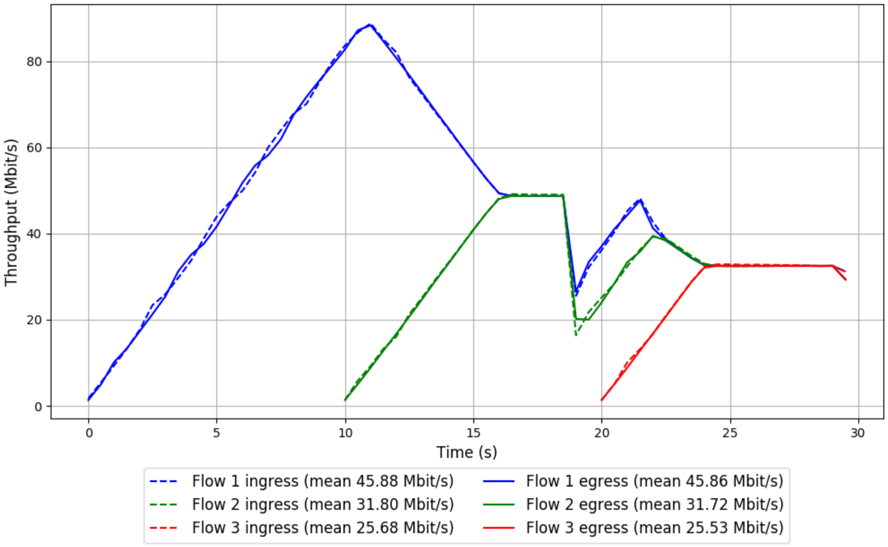
Run 8: Report of LEDBAT — Data Link

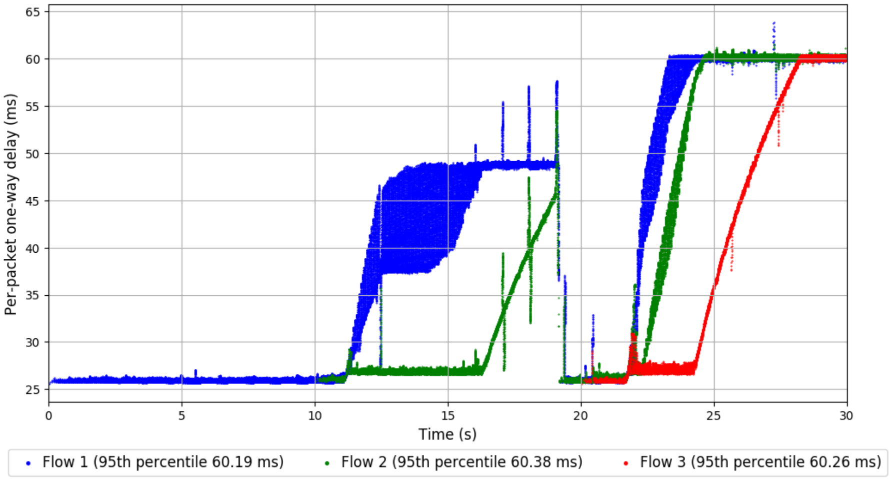




```
Run 9: Statistics of LEDBAT

Start at: 2017-10-12 06:12:19
End at: 2017-10-12 06:12:49
Local clock offset: 0.084 ms
Remote clock offset: -2.698 ms

# Below is generated by plot.py at 2017-10-12 10:05:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.41 Mbit/s
95th percentile per-packet one-way delay: 60.293 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 45.86 Mbit/s
95th percentile per-packet one-way delay: 60.190 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 31.72 Mbit/s
95th percentile per-packet one-way delay: 60.375 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 25.53 Mbit/s
95th percentile per-packet one-way delay: 60.262 ms
Loss rate: 1.12%
```

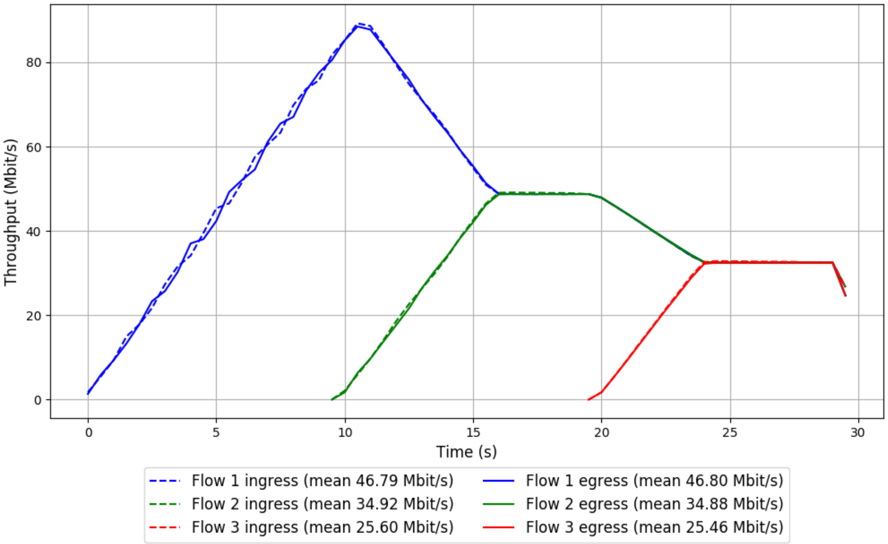
Run 9: Report of LEDBAT — Data Link

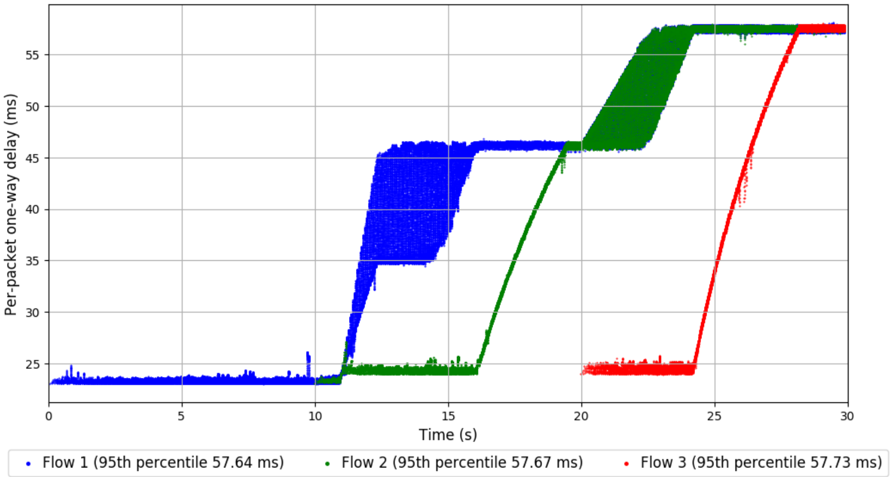




```
Run 10: Statistics of LEDBAT

Start at: 2017-10-12 06:31:23
End at: 2017-10-12 06:31:53
Local clock offset: 0.056 ms
Remote clock offset: -0.872 ms

# Below is generated by plot.py at 2017-10-12 10:05:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.51 Mbit/s
95th percentile per-packet one-way delay: 57.665 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 46.80 Mbit/s
95th percentile per-packet one-way delay: 57.644 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 34.88 Mbit/s
95th percentile per-packet one-way delay: 57.675 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 25.46 Mbit/s
95th percentile per-packet one-way delay: 57.726 ms
Loss rate: 1.12%
```

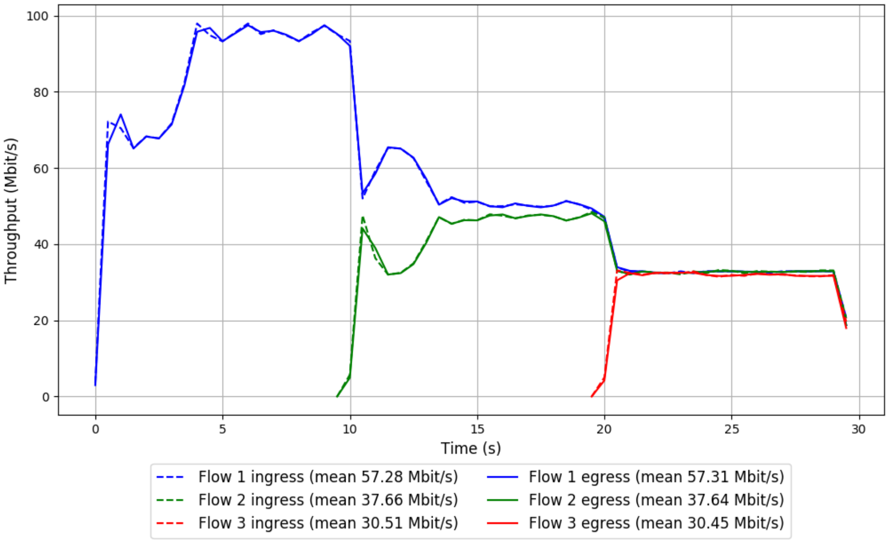
Run 10: Report of LEDBAT — Data Link

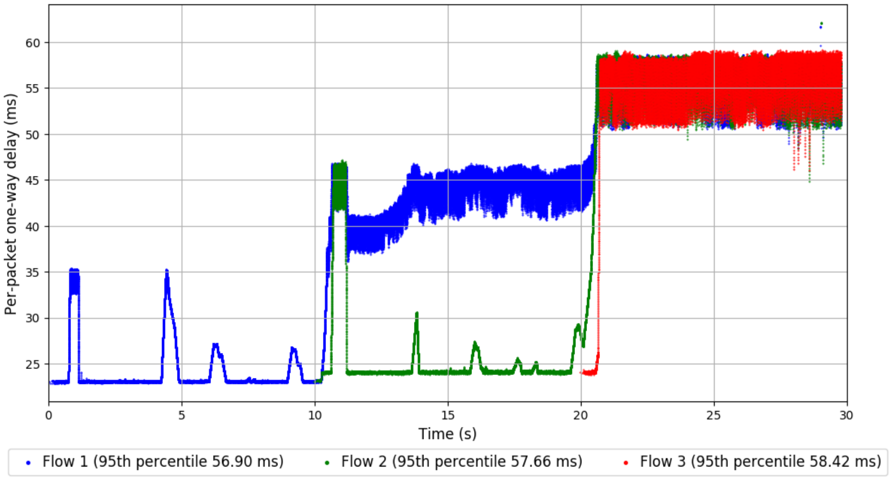




```
Run 1: Statistics of PCC

Start at: 2017-10-12 03:44:33
End at: 2017-10-12 03:45:03
Local clock offset: -0.277 ms
Remote clock offset: -0.249 ms

# Below is generated by plot.py at 2017-10-12 10:06:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.40 Mbit/s
95th percentile per-packet one-way delay: 57.601 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 57.31 Mbit/s
95th percentile per-packet one-way delay: 56.904 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 37.64 Mbit/s
95th percentile per-packet one-way delay: 57.665 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 30.45 Mbit/s
95th percentile per-packet one-way delay: 58.420 ms
Loss rate: 0.88%
```

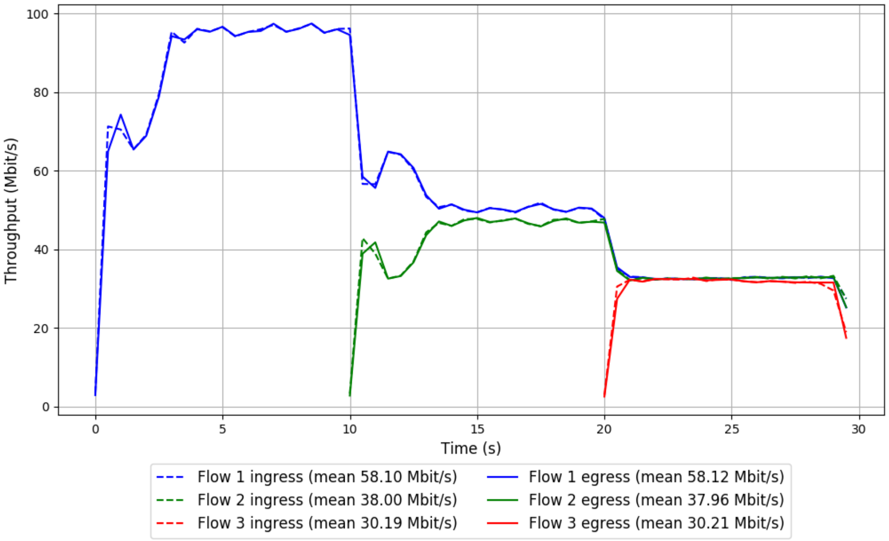
Run 1: Report of PCC — Data Link

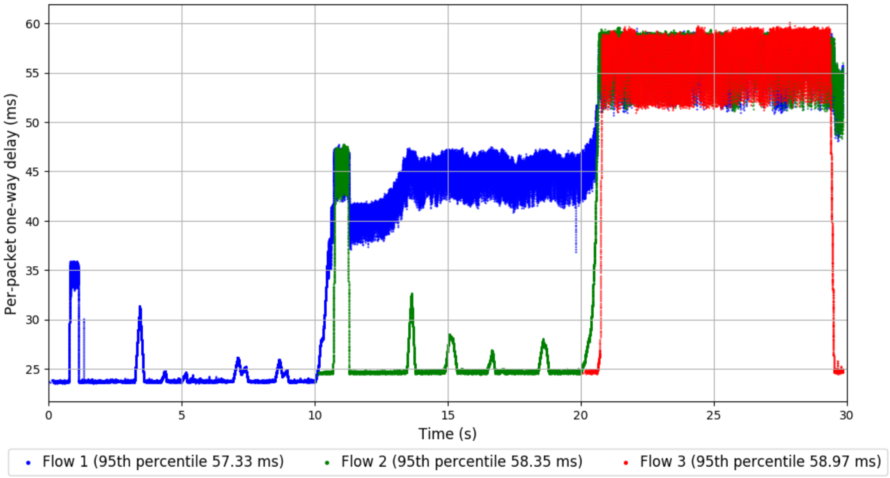




```
Run 2: Statistics of PCC

Start at: 2017-10-12 04:03:34
End at: 2017-10-12 04:04:04
Local clock offset: -0.223 ms
Remote clock offset: -0.374 ms

# Below is generated by plot.py at 2017-10-12 10:06:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.26 Mbit/s
95th percentile per-packet one-way delay: 58.149 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 58.12 Mbit/s
95th percentile per-packet one-way delay: 57.329 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 37.96 Mbit/s
95th percentile per-packet one-way delay: 58.352 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 30.21 Mbit/s
95th percentile per-packet one-way delay: 58.968 ms
Loss rate: 0.47%
```

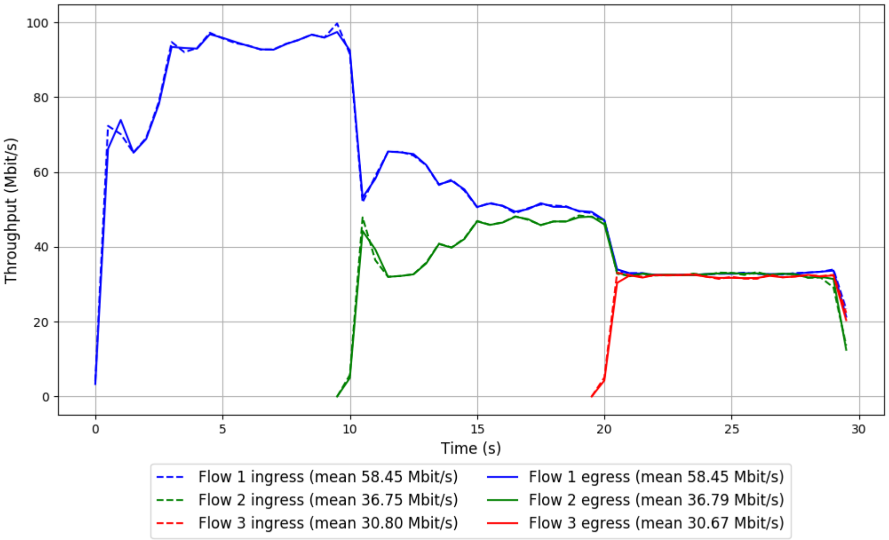
Run 2: Report of PCC — Data Link

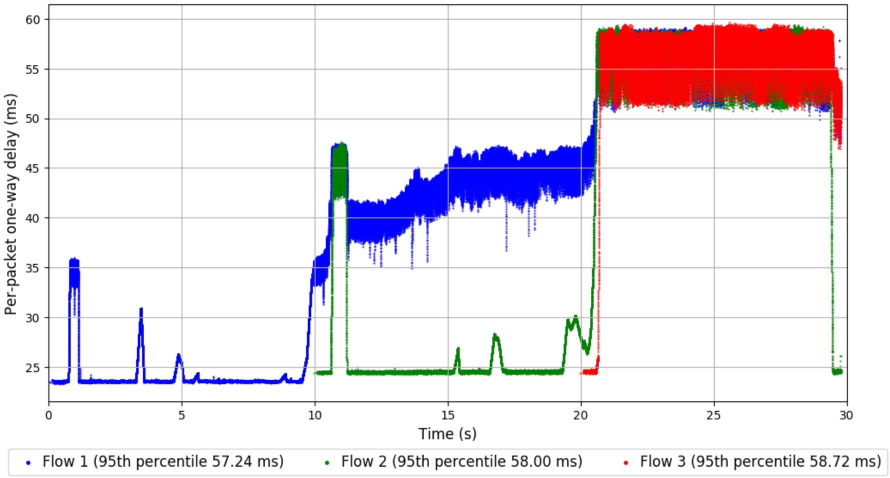




```
Run 3: Statistics of PCC

Start at: 2017-10-12 04:22:42
End at: 2017-10-12 04:23:12
Local clock offset: -0.316 ms
Remote clock offset: 0.225 ms

# Below is generated by plot.py at 2017-10-12 10:06:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.04 Mbit/s
95th percentile per-packet one-way delay: 57.930 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 58.45 Mbit/s
95th percentile per-packet one-way delay: 57.245 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 36.79 Mbit/s
95th percentile per-packet one-way delay: 58.003 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 30.67 Mbit/s
95th percentile per-packet one-way delay: 58.716 ms
Loss rate: 0.97%
```

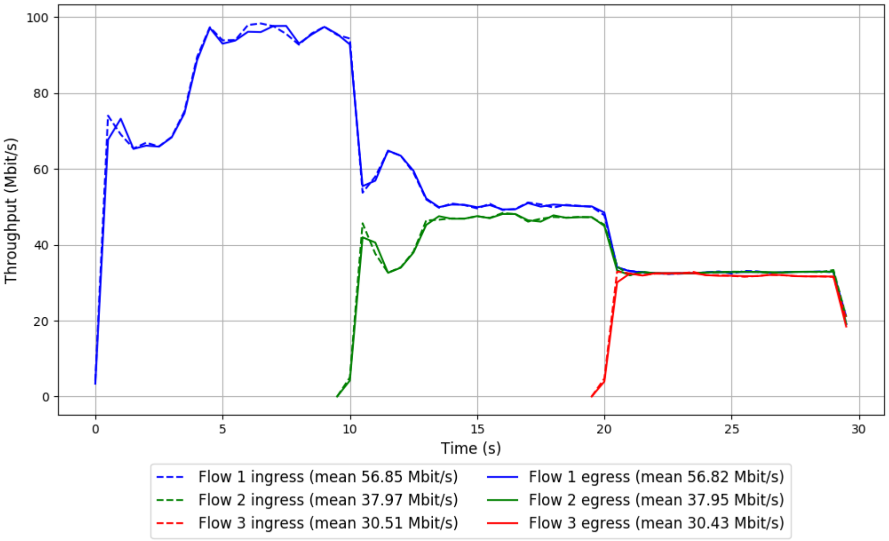
Run 3: Report of PCC — Data Link

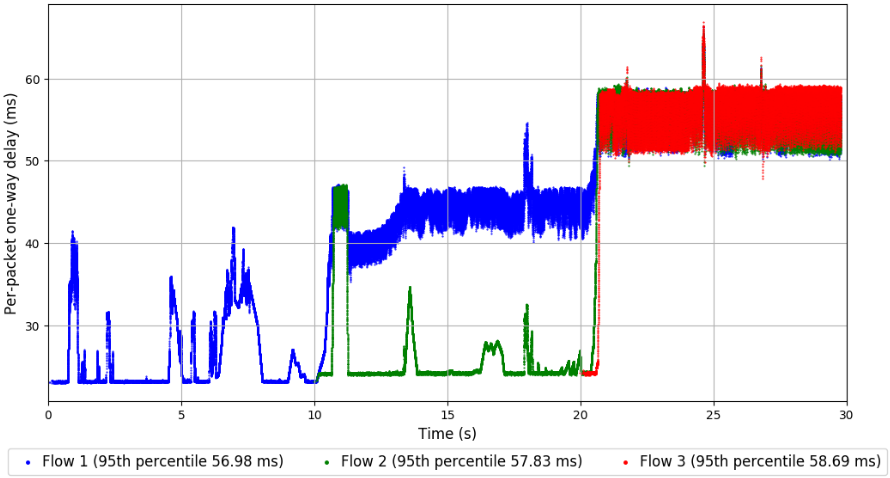




```
Run 4: Statistics of PCC

Start at: 2017-10-12 04:41:44
End at: 2017-10-12 04:42:14
Local clock offset: -0.259 ms
Remote clock offset: 1.289 ms

# Below is generated by plot.py at 2017-10-12 10:07:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.10 Mbit/s
95th percentile per-packet one-way delay: 57.739 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 56.82 Mbit/s
95th percentile per-packet one-way delay: 56.983 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 37.95 Mbit/s
95th percentile per-packet one-way delay: 57.827 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 30.43 Mbit/s
95th percentile per-packet one-way delay: 58.685 ms
Loss rate: 0.94%
```

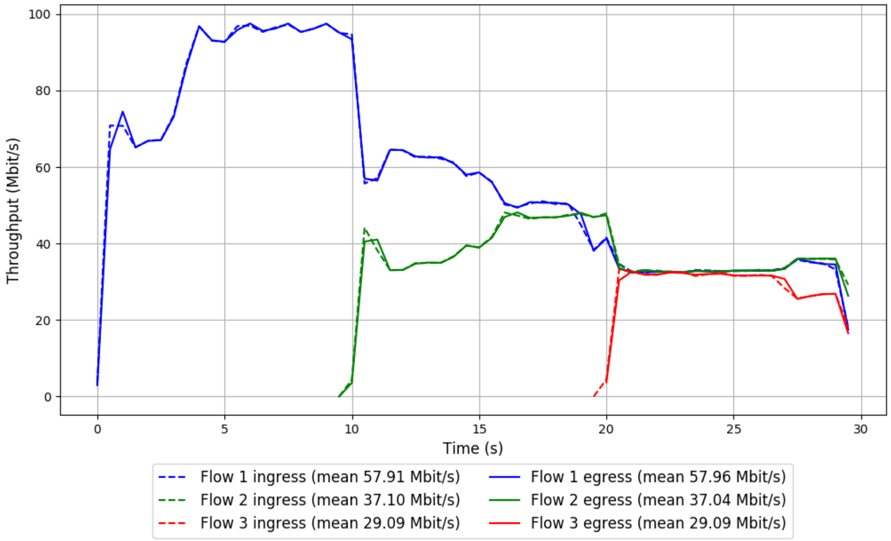
Run 4: Report of PCC — Data Link

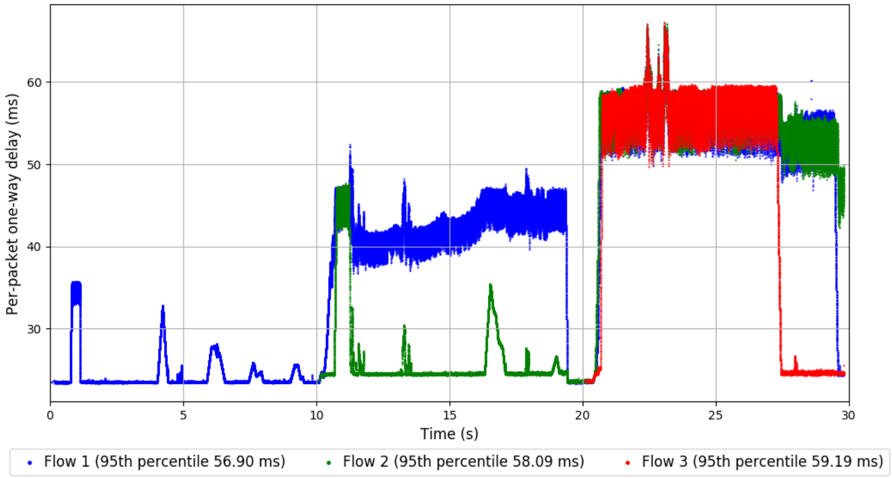




```
Run 5: Statistics of PCC

Start at: 2017-10-12 05:00:57
End at: 2017-10-12 05:01:27
Local clock offset: -0.483 ms
Remote clock offset: 1.32 ms

# Below is generated by plot.py at 2017-10-12 10:07:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.17 Mbit/s
95th percentile per-packet one-way delay: 57.977 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 57.96 Mbit/s
95th percentile per-packet one-way delay: 56.899 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 37.04 Mbit/s
95th percentile per-packet one-way delay: 58.093 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 29.09 Mbit/s
95th percentile per-packet one-way delay: 59.192 ms
Loss rate: 0.55%
```

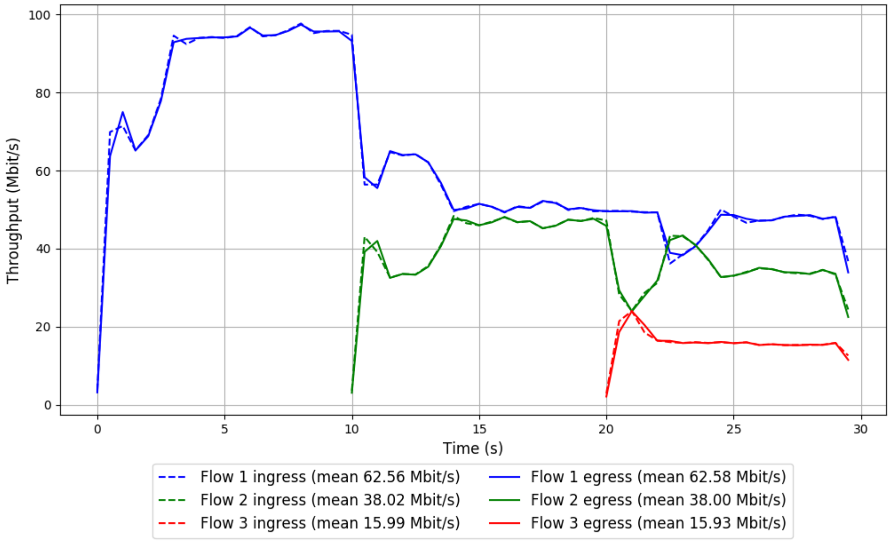
Run 5: Report of PCC — Data Link

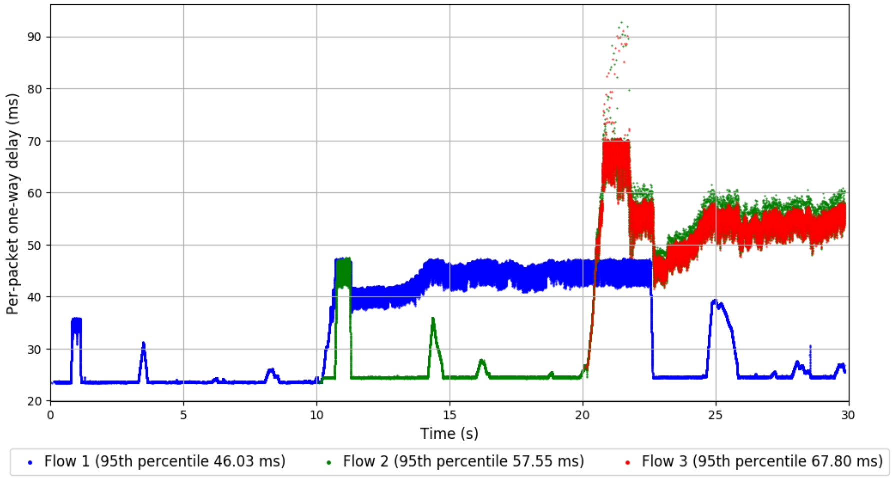




```
Run 6: Statistics of PCC

Start at: 2017-10-12 05:20:14
End at: 2017-10-12 05:20:44
Local clock offset: -0.622 ms
Remote clock offset: 1.241 ms

# Below is generated by plot.py at 2017-10-12 10:07:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.06 Mbit/s
95th percentile per-packet one-way delay: 55.588 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 62.58 Mbit/s
95th percentile per-packet one-way delay: 46.028 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 38.00 Mbit/s
95th percentile per-packet one-way delay: 57.553 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 15.93 Mbit/s
95th percentile per-packet one-way delay: 67.801 ms
Loss rate: 0.91%
```

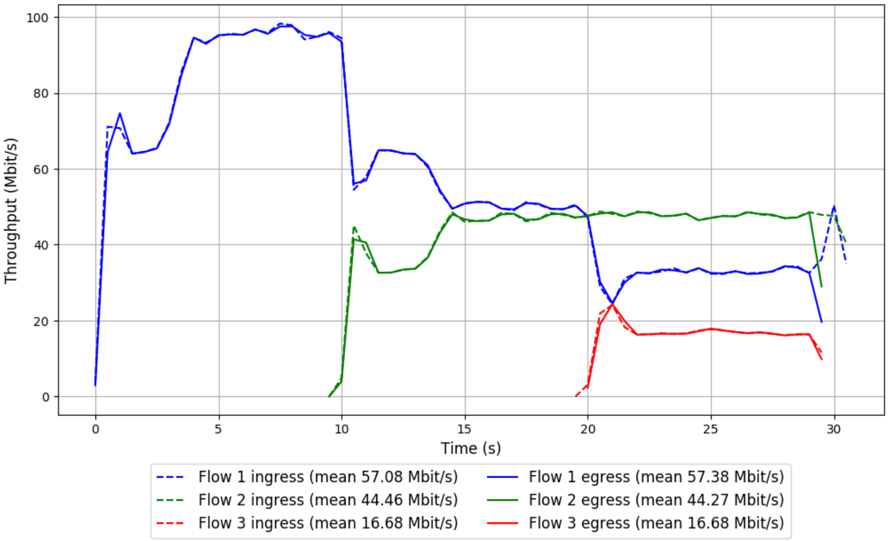
Run 6: Report of PCC — Data Link

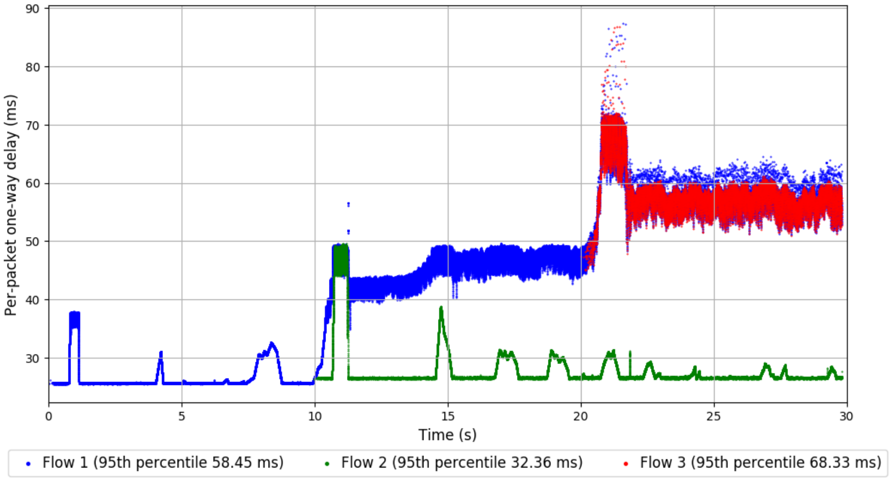




```
Run 7: Statistics of PCC

Start at: 2017-10-12 05:39:25
End at: 2017-10-12 05:39:55
Local clock offset: -0.168 ms
Remote clock offset: -1.026 ms

# Below is generated by plot.py at 2017-10-12 10:07:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.32 Mbit/s
95th percentile per-packet one-way delay: 58.371 ms
Loss rate: 3.83%
-- Flow 1:
Average throughput: 57.38 Mbit/s
95th percentile per-packet one-way delay: 58.450 ms
Loss rate: 3.00%
-- Flow 2:
Average throughput: 44.27 Mbit/s
95th percentile per-packet one-way delay: 32.356 ms
Loss rate: 5.88%
-- Flow 3:
Average throughput: 16.68 Mbit/s
95th percentile per-packet one-way delay: 68.335 ms
Loss rate: 1.09%
```

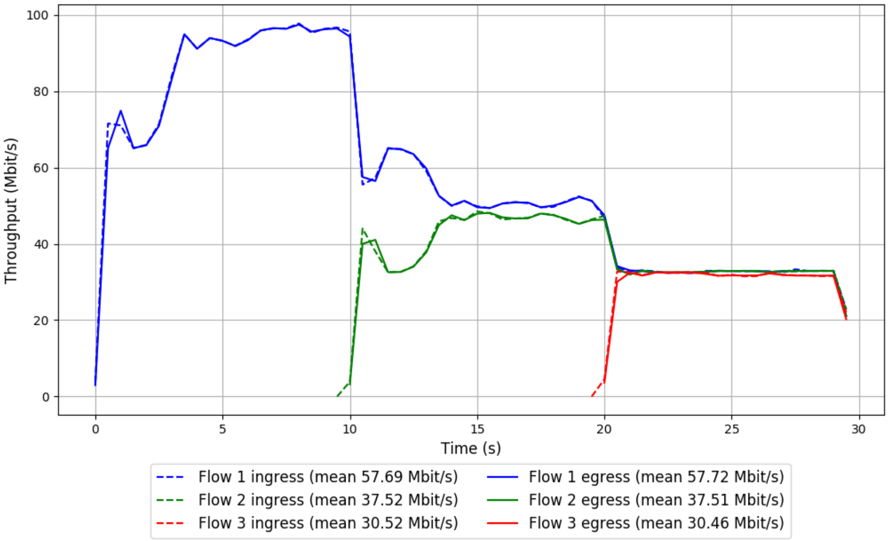
Run 7: Report of PCC — Data Link

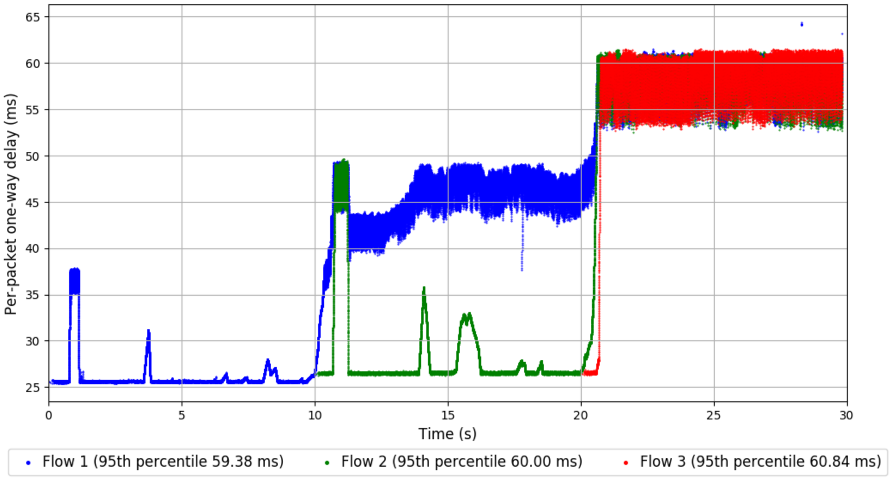




```
Run 8: Statistics of PCC

Start at: 2017-10-12 05:58:33
End at: 2017-10-12 05:59:03
Local clock offset: -0.015 ms
Remote clock offset: -1.939 ms

# Below is generated by plot.py at 2017-10-12 10:07:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.69 Mbit/s
95th percentile per-packet one-way delay: 60.001 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 57.72 Mbit/s
95th percentile per-packet one-way delay: 59.377 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 37.51 Mbit/s
95th percentile per-packet one-way delay: 60.002 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 30.46 Mbit/s
95th percentile per-packet one-way delay: 60.839 ms
Loss rate: 0.90%
```

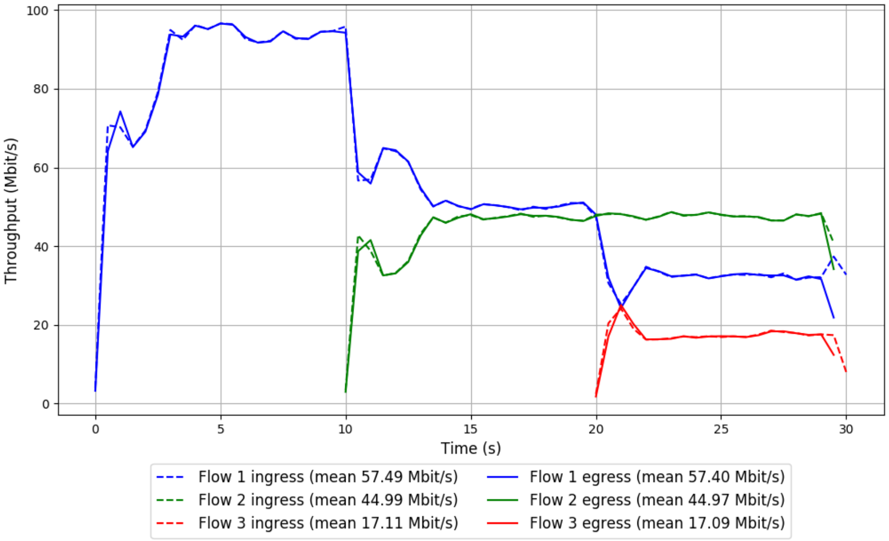
Run 8: Report of PCC — Data Link

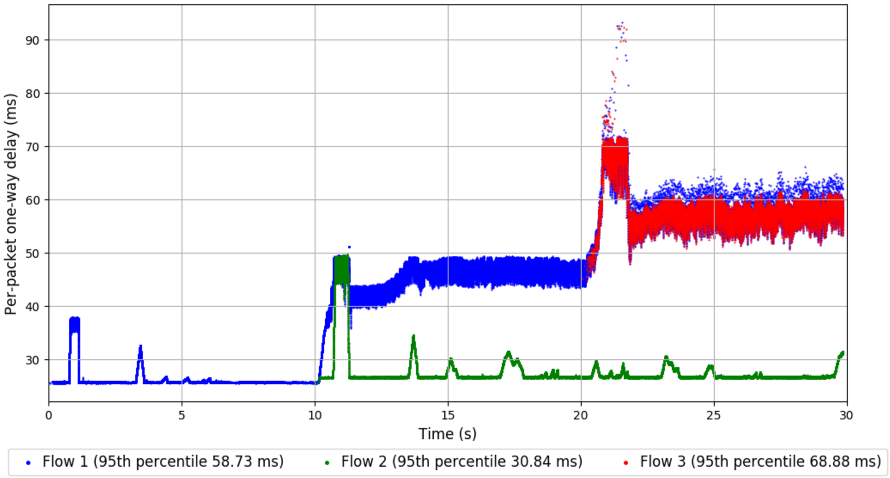




```
Run 9: Statistics of PCC

Start at: 2017-10-12 06:17:42
End at: 2017-10-12 06:18:12
Local clock offset: 0.099 ms
Remote clock offset: -2.944 ms

# Below is generated by plot.py at 2017-10-12 10:07:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.88 Mbit/s
95th percentile per-packet one-way delay: 58.686 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 57.40 Mbit/s
95th percentile per-packet one-way delay: 58.726 ms
Loss rate: 1.50%
-- Flow 2:
Average throughput: 44.97 Mbit/s
95th percentile per-packet one-way delay: 30.836 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 17.09 Mbit/s
95th percentile per-packet one-way delay: 68.875 ms
Loss rate: 4.30%
```

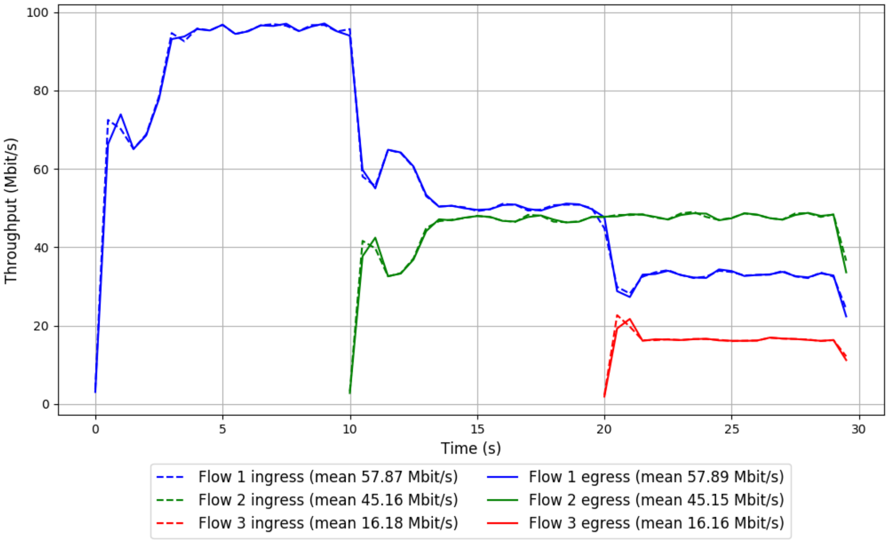
Run 9: Report of PCC — Data Link

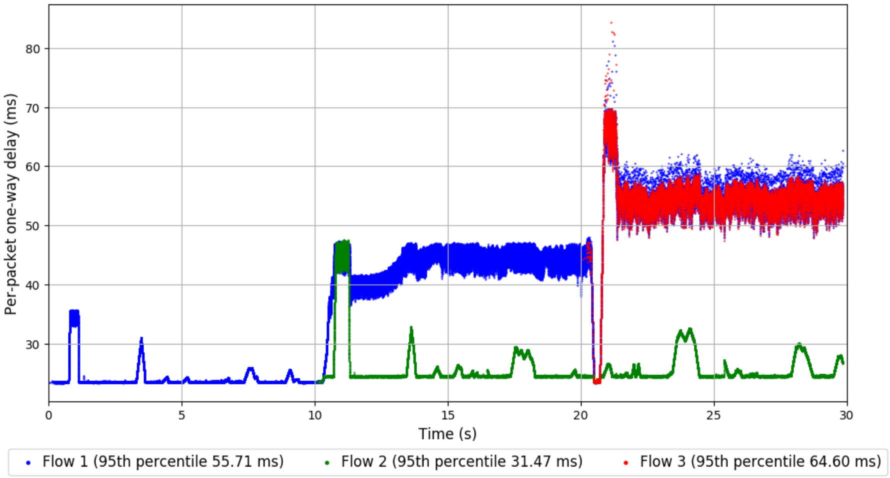




```
Run 10: Statistics of PCC

Start at: 2017-10-12 06:36:46
End at: 2017-10-12 06:37:16
Local clock offset: -0.037 ms
Remote clock offset: -1.569 ms

# Below is generated by plot.py at 2017-10-12 10:07:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.19 Mbit/s
95th percentile per-packet one-way delay: 55.565 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 57.89 Mbit/s
95th percentile per-packet one-way delay: 55.709 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 45.15 Mbit/s
95th percentile per-packet one-way delay: 31.473 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 16.16 Mbit/s
95th percentile per-packet one-way delay: 64.602 ms
Loss rate: 0.86%
```

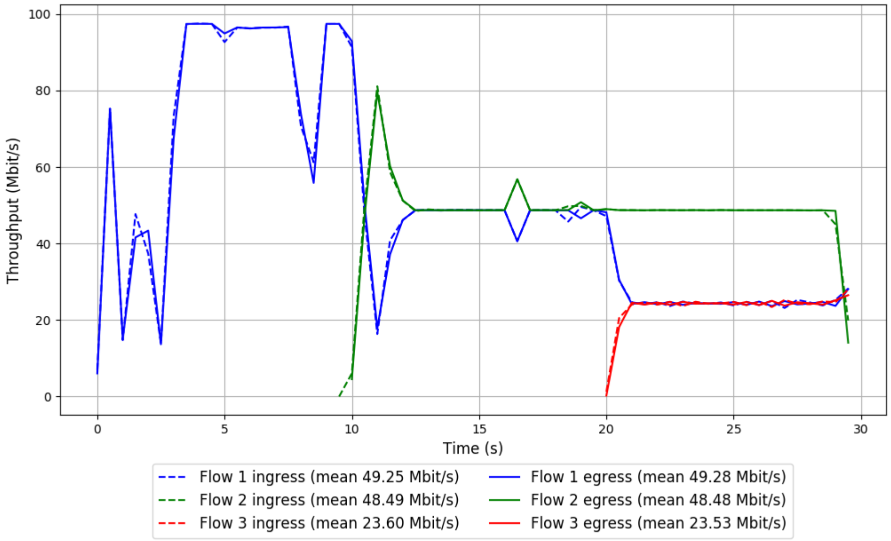
Run 10: Report of PCC — Data Link

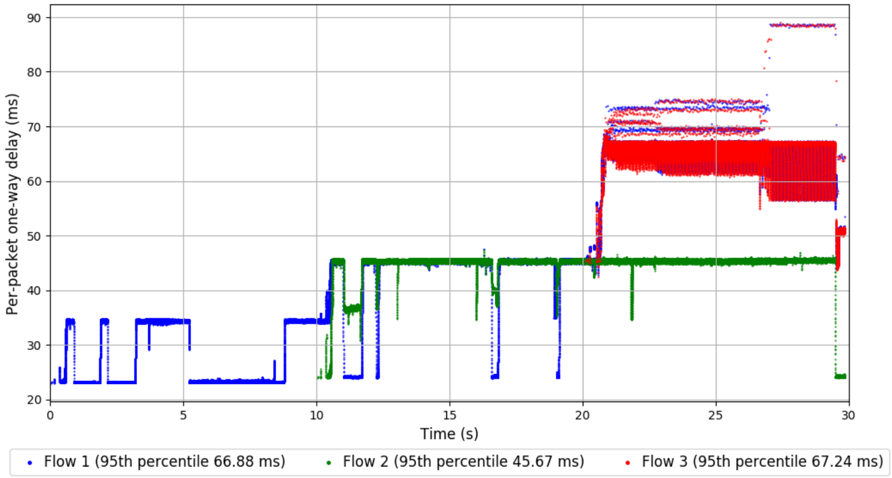




```
Run 1: Statistics of QUIC Cubic

Start at: 2017-10-12 03:49:52
End at: 2017-10-12 03:50:22
Local clock offset: -0.308 ms
Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2017-10-12 10:07:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.21 Mbit/s
95th percentile per-packet one-way delay: 66.874 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 49.28 Mbit/s
95th percentile per-packet one-way delay: 66.876 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 48.48 Mbit/s
95th percentile per-packet one-way delay: 45.673 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 23.53 Mbit/s
95th percentile per-packet one-way delay: 67.242 ms
Loss rate: 1.04%
```

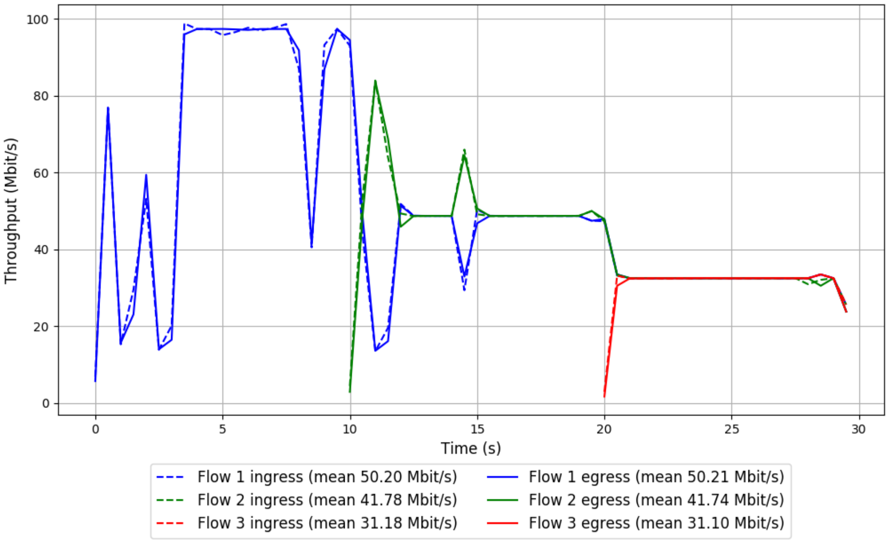
Run 1: Report of QUIC Cubic — Data Link

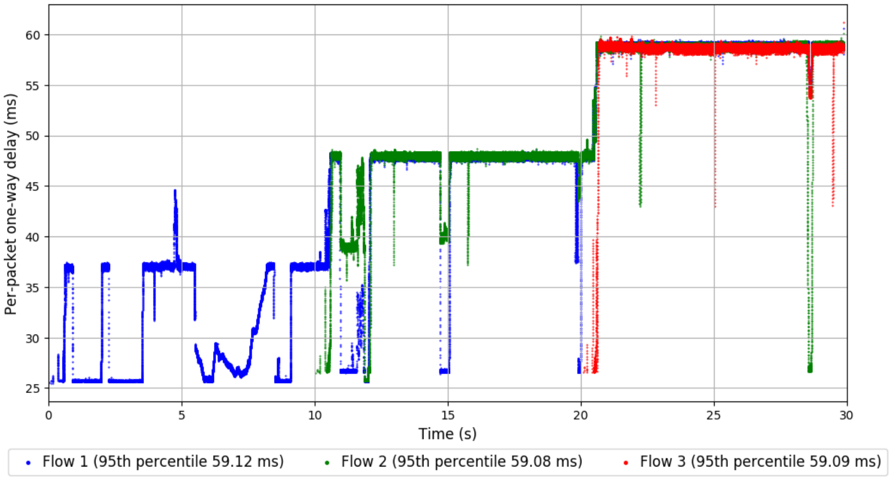




```
Run 2: Statistics of QUIC Cubic

Start at: 2017-10-12 04:08:56
End at: 2017-10-12 04:09:26
Local clock offset: -0.323 ms
Remote clock offset: -2.244 ms

# Below is generated by plot.py at 2017-10-12 10:08:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.13 Mbit/s
95th percentile per-packet one-way delay: 59.097 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 50.21 Mbit/s
95th percentile per-packet one-way delay: 59.115 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 41.74 Mbit/s
95th percentile per-packet one-way delay: 59.081 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 31.10 Mbit/s
95th percentile per-packet one-way delay: 59.088 ms
Loss rate: 0.91%
```

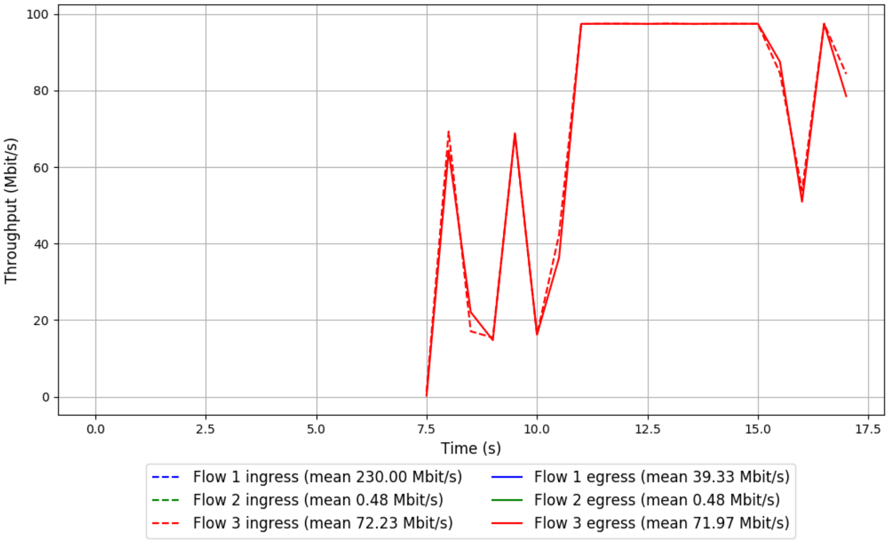
Run 2: Report of QUIC Cubic — Data Link

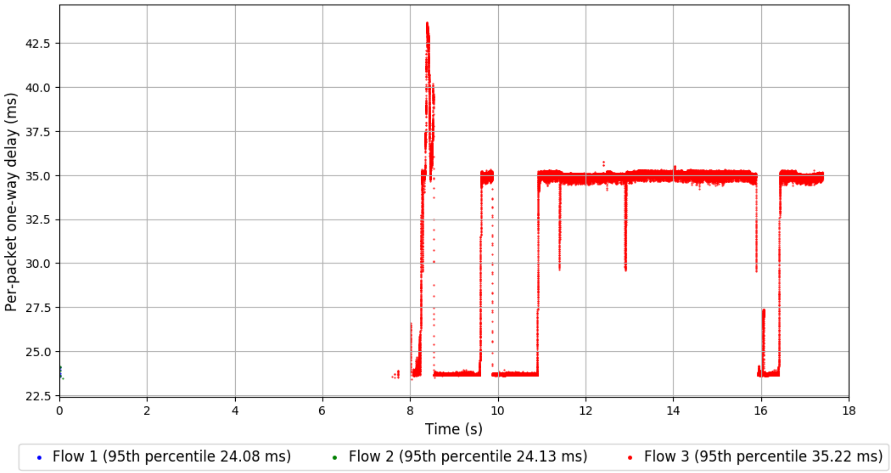




```
Run 3: Statistics of QUIC Cubic

Start at: 2017-10-12 04:28:04
End at: 2017-10-12 04:28:34
Local clock offset: -0.225 ms
Remote clock offset: 0.441 ms
```

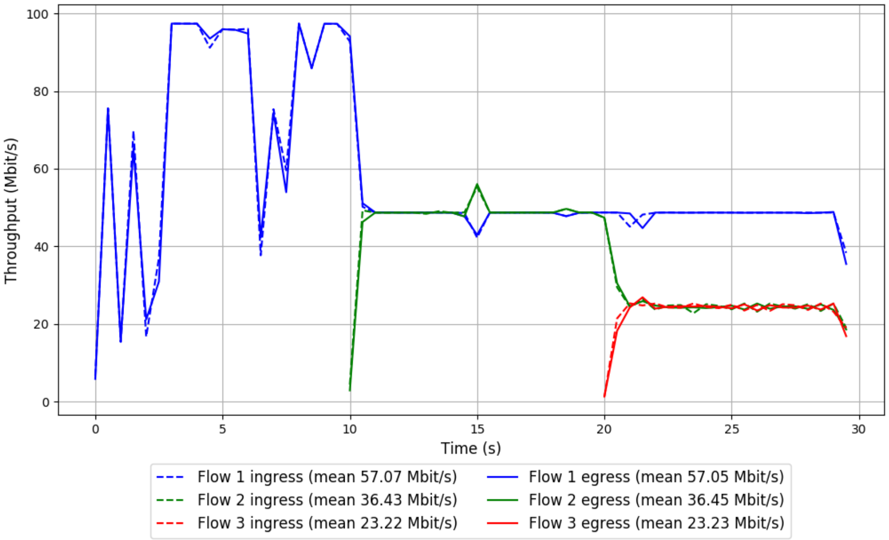
Run 3: Report of QUIC Cubic — Data Link

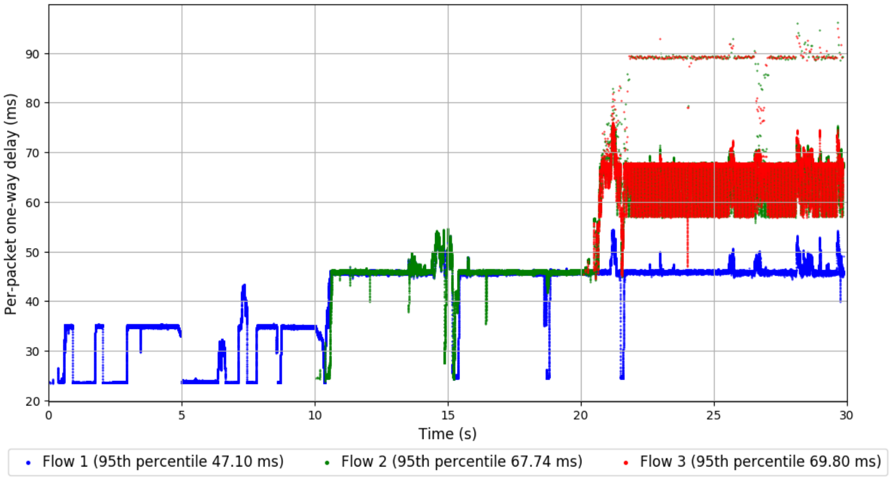




```
Run 4: Statistics of QUIC Cubic

Start at: 2017-10-12 04:47:06
End at: 2017-10-12 04:47:36
Local clock offset: -0.362 ms
Remote clock offset: 0.924 ms

# Below is generated by plot.py at 2017-10-12 10:08:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.84 Mbit/s
95th percentile per-packet one-way delay: 67.550 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 57.05 Mbit/s
95th percentile per-packet one-way delay: 47.102 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 36.45 Mbit/s
95th percentile per-packet one-way delay: 67.736 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 23.23 Mbit/s
95th percentile per-packet one-way delay: 69.795 ms
Loss rate: 0.93%
```

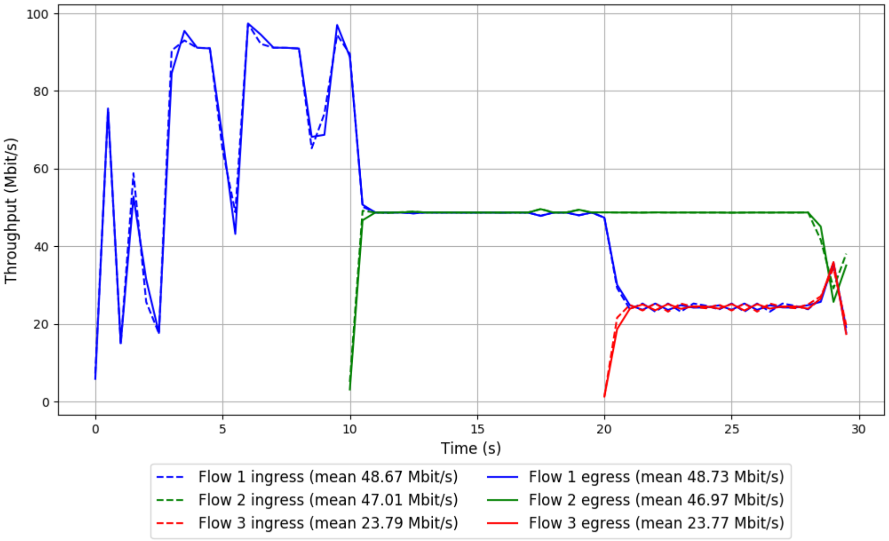
Run 4: Report of QUIC Cubic — Data Link

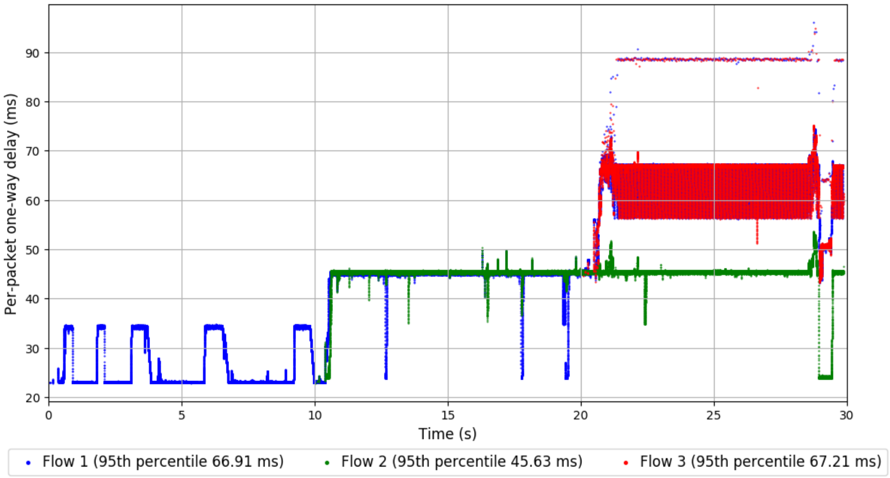




```
Run 5: Statistics of QUIC Cubic

Start at: 2017-10-12 05:06:20
End at: 2017-10-12 05:06:50
Local clock offset: -0.62 ms
Remote clock offset: 1.747 ms

# Below is generated by plot.py at 2017-10-12 10:08:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.69 Mbit/s
95th percentile per-packet one-way delay: 66.938 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 48.73 Mbit/s
95th percentile per-packet one-way delay: 66.910 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 46.97 Mbit/s
95th percentile per-packet one-way delay: 45.630 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 23.77 Mbit/s
95th percentile per-packet one-way delay: 67.208 ms
Loss rate: 1.14%
```

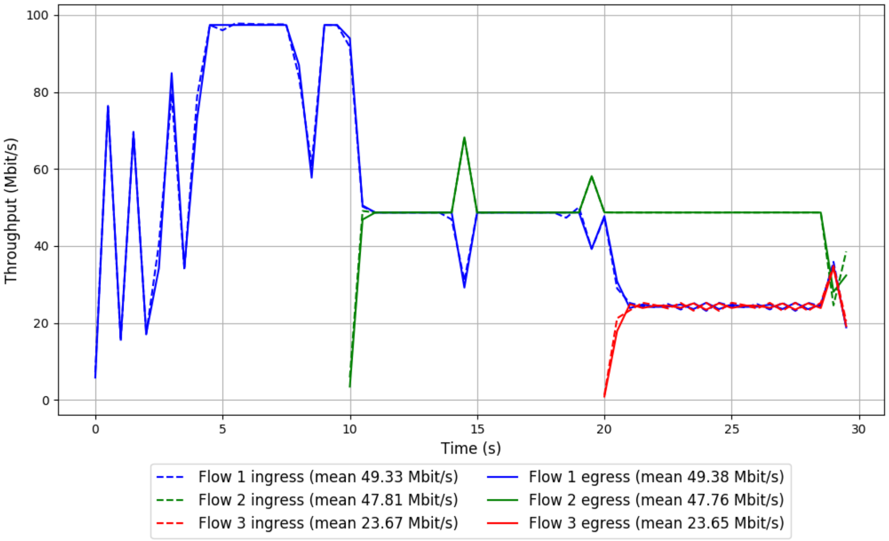
Run 5: Report of QUIC Cubic — Data Link

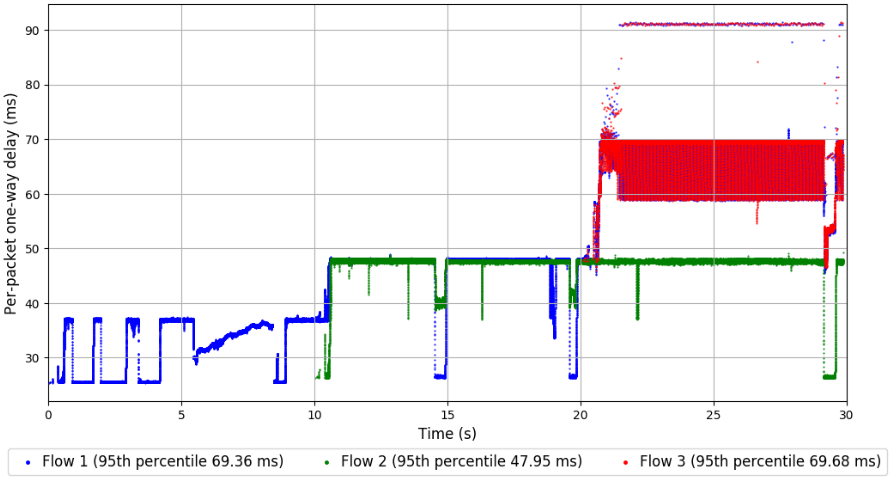




```
Run 6: Statistics of QUIC Cubic

Start at: 2017-10-12 05:25:42
End at: 2017-10-12 05:26:12
Local clock offset: -0.54 ms
Remote clock offset: -0.762 ms

# Below is generated by plot.py at 2017-10-12 10:08:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.82 Mbit/s
95th percentile per-packet one-way delay: 69.409 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 49.38 Mbit/s
95th percentile per-packet one-way delay: 69.355 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 47.76 Mbit/s
95th percentile per-packet one-way delay: 47.949 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 23.65 Mbit/s
95th percentile per-packet one-way delay: 69.683 ms
Loss rate: 1.13%
```

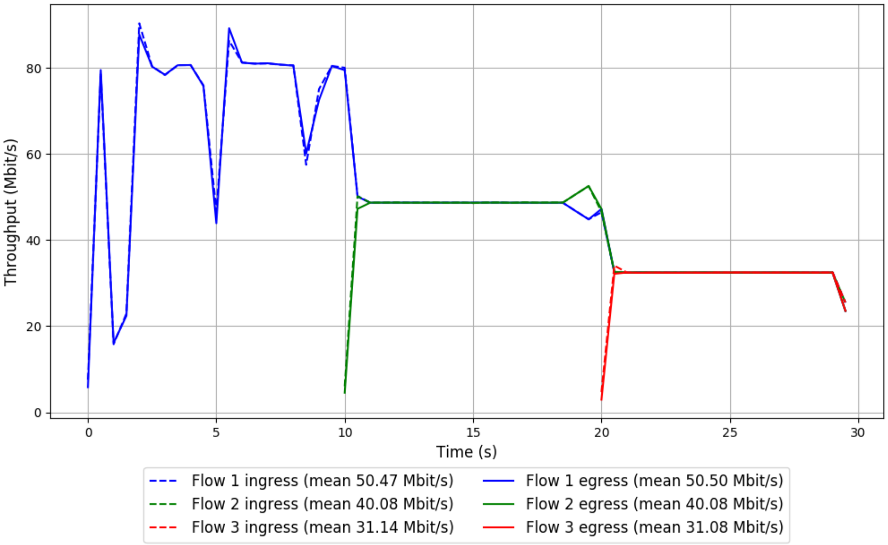
Run 6: Report of QUIC Cubic — Data Link

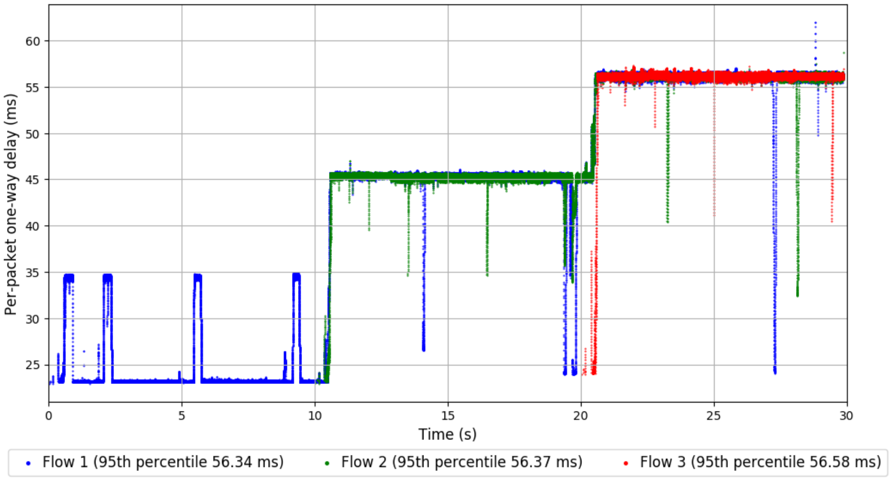




```
Run 7: Statistics of QUIC Cubic

Start at: 2017-10-12 05:44:48
End at: 2017-10-12 05:45:18
Local clock offset: -0.117 ms
Remote clock offset: 1.345 ms

# Below is generated by plot.py at 2017-10-12 10:09:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.35 Mbit/s
95th percentile per-packet one-way delay: 56.401 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 50.50 Mbit/s
95th percentile per-packet one-way delay: 56.340 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 40.08 Mbit/s
95th percentile per-packet one-way delay: 56.369 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 31.08 Mbit/s
95th percentile per-packet one-way delay: 56.579 ms
Loss rate: 0.91%
```

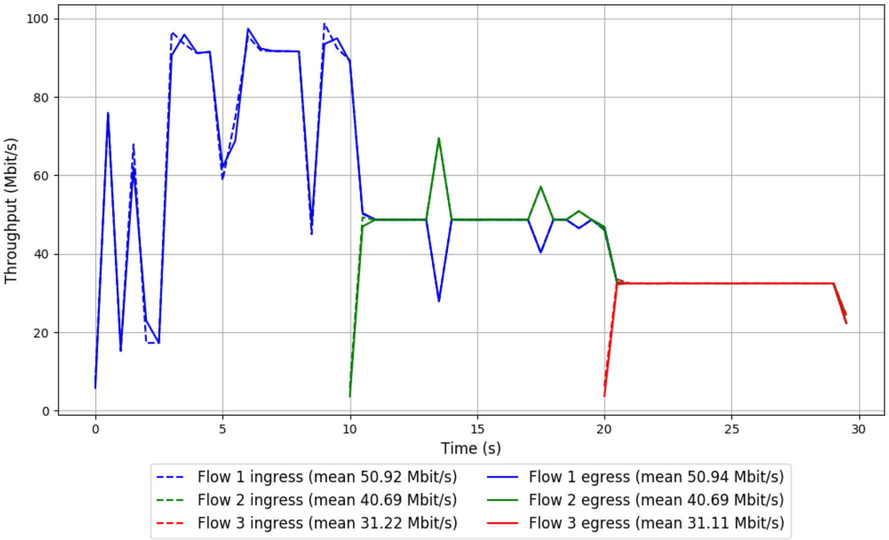
Run 7: Report of QUIC Cubic — Data Link

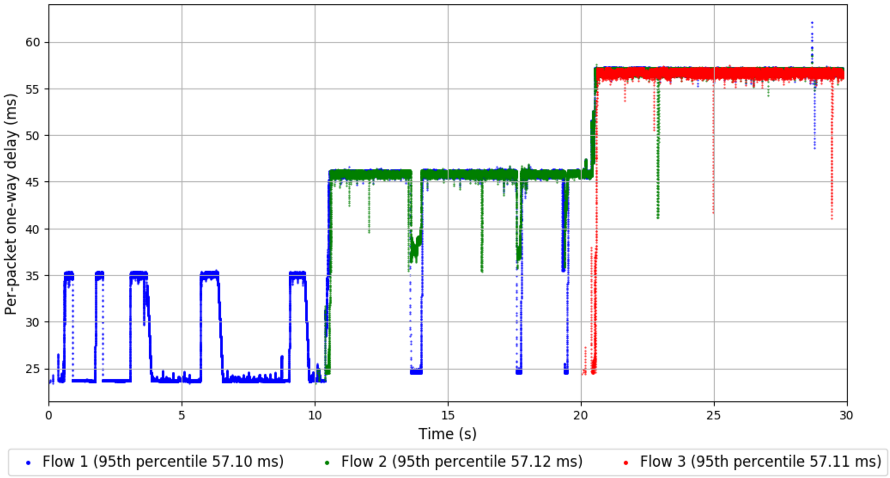




```
Run 8: Statistics of QUIC Cubic

Start at: 2017-10-12 06:03:55
End at: 2017-10-12 06:04:25
Local clock offset: -0.046 ms
Remote clock offset: -0.29 ms

# Below is generated by plot.py at 2017-10-12 10:09:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.20 Mbit/s
95th percentile per-packet one-way delay: 57.109 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 50.94 Mbit/s
95th percentile per-packet one-way delay: 57.098 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 40.69 Mbit/s
95th percentile per-packet one-way delay: 57.118 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 31.11 Mbit/s
95th percentile per-packet one-way delay: 57.108 ms
Loss rate: 0.91%
```

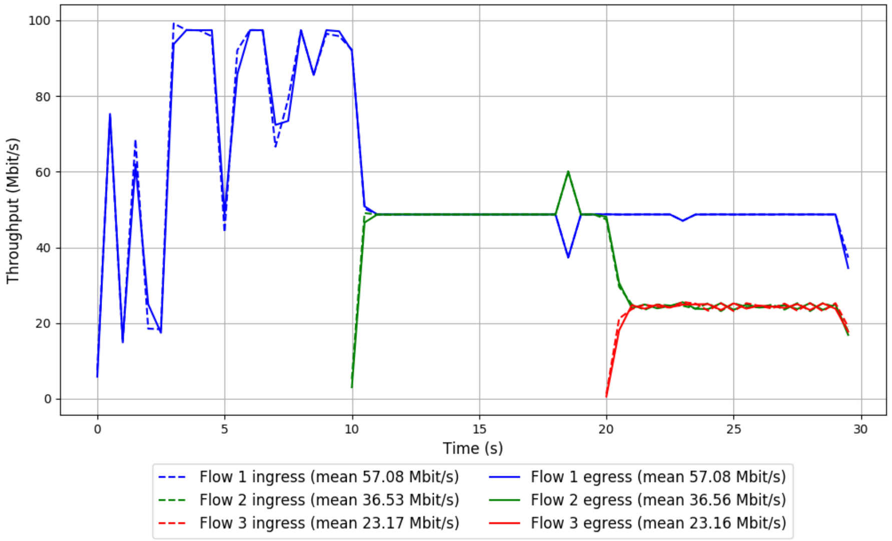
Run 8: Report of QUIC Cubic — Data Link

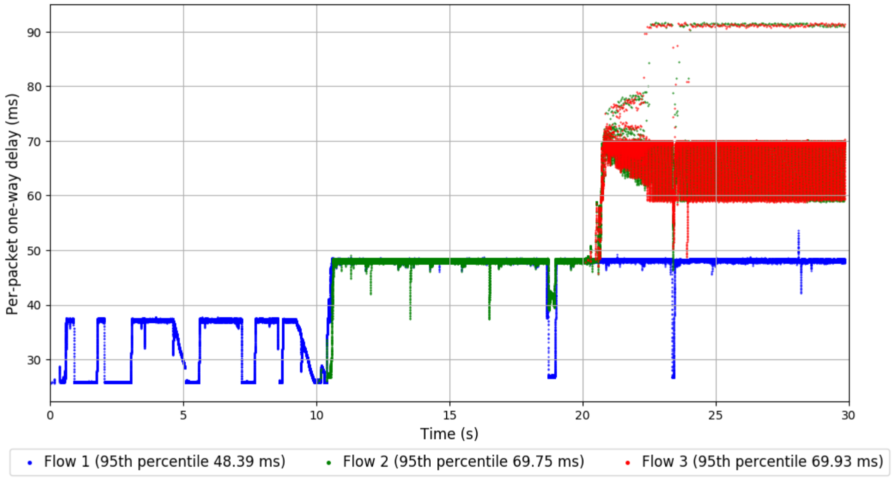




```
Run 9: Statistics of QUIC Cubic

Start at: 2017-10-12 06:23:04
End at: 2017-10-12 06:23:34
Local clock offset: 0.121 ms
Remote clock offset: -3.221 ms

# Below is generated by plot.py at 2017-10-12 10:09:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.90 Mbit/s
95th percentile per-packet one-way delay: 69.578 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 57.08 Mbit/s
95th percentile per-packet one-way delay: 48.389 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 36.56 Mbit/s
95th percentile per-packet one-way delay: 69.745 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 23.16 Mbit/s
95th percentile per-packet one-way delay: 69.932 ms
Loss rate: 1.06%
```

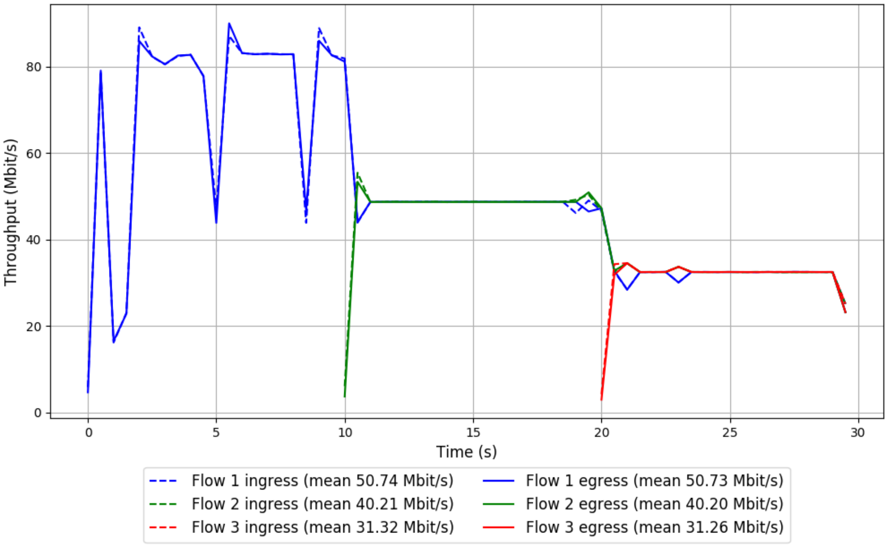
Run 9: Report of QUIC Cubic — Data Link

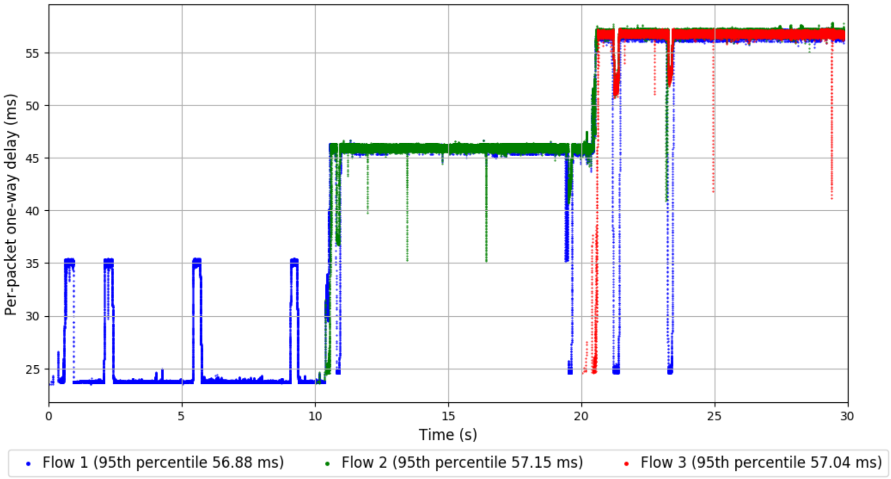




```
Run 10: Statistics of QUIC Cubic

Start at: 2017-10-12 06:42:08
End at: 2017-10-12 06:42:38
Local clock offset: 0.056 ms
Remote clock offset: -1.767 ms

# Below is generated by plot.py at 2017-10-12 10:09:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.72 Mbit/s
95th percentile per-packet one-way delay: 57.008 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 50.73 Mbit/s
95th percentile per-packet one-way delay: 56.880 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 40.20 Mbit/s
95th percentile per-packet one-way delay: 57.149 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 31.26 Mbit/s
95th percentile per-packet one-way delay: 57.044 ms
Loss rate: 0.91%
```

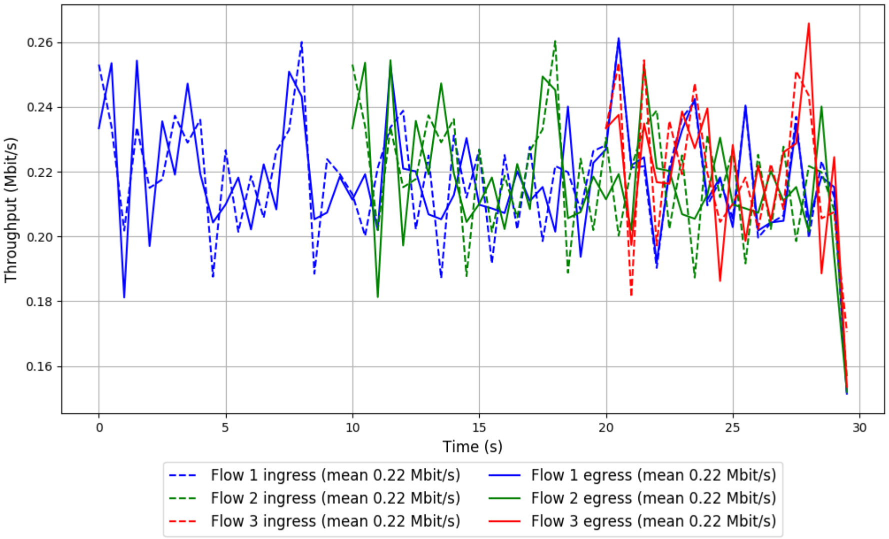
Run 10: Report of QUIC Cubic — Data Link

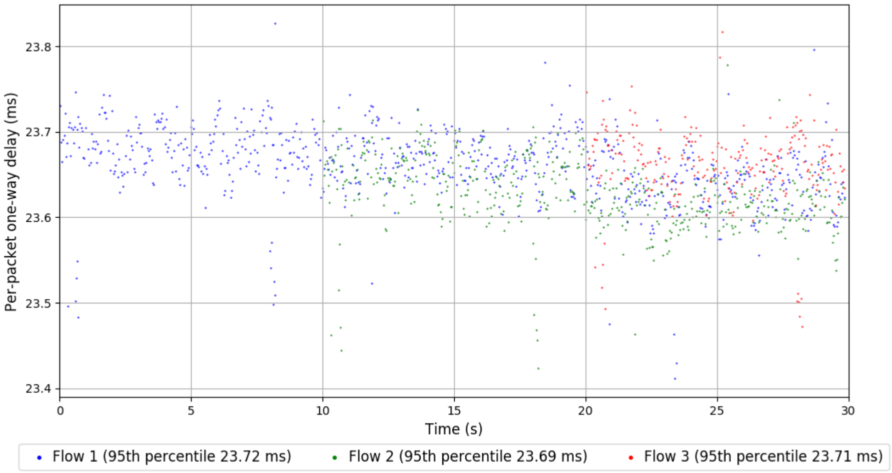




```
Run 1: Statistics of SCReAM

Start at: 2017-10-12 03:45:54
End at: 2017-10-12 03:46:24
Local clock offset: -0.212 ms
Remote clock offset: -0.677 ms

# Below is generated by plot.py at 2017-10-12 10:09:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 23.714 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.719 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.690 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.714 ms
Loss rate: 0.39%
```

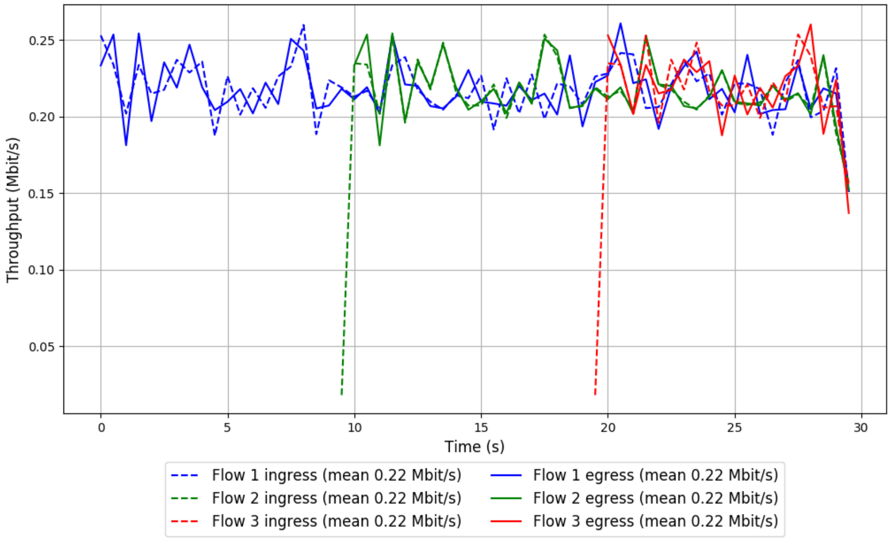
Run 1: Report of SCReAM — Data Link

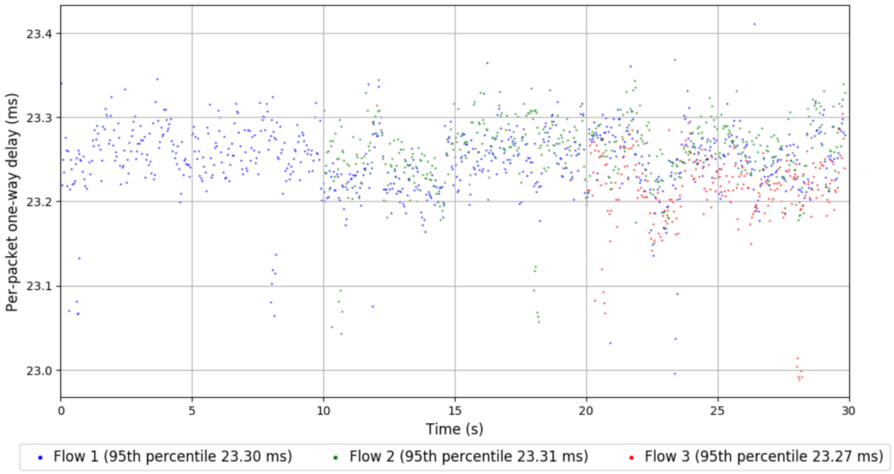




```
Run 2: Statistics of SCReAM

Start at: 2017-10-12 04:04:55
End at: 2017-10-12 04:05:25
Local clock offset: -0.221 ms
Remote clock offset: 0.19 ms

# Below is generated by plot.py at 2017-10-12 10:09:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 23.307 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.303 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.314 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.271 ms
Loss rate: 0.39%
```

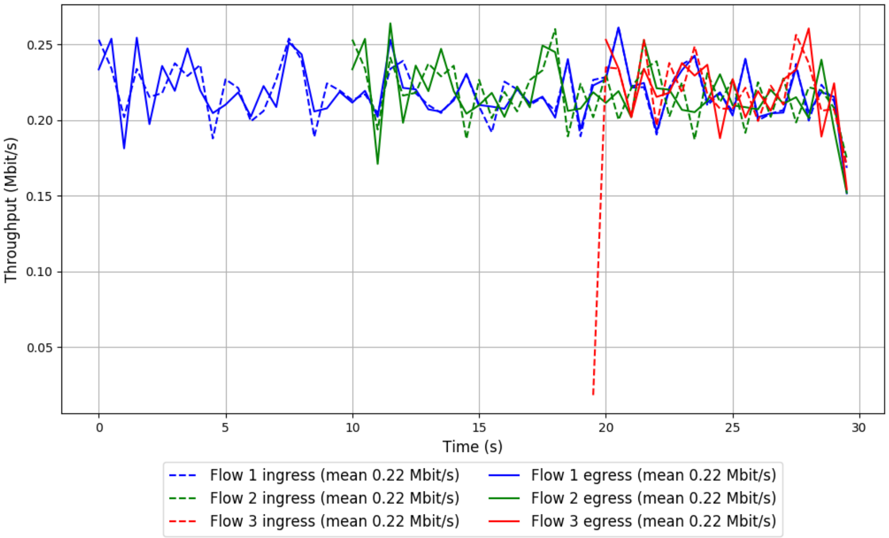
Run 2: Report of SCReAM — Data Link

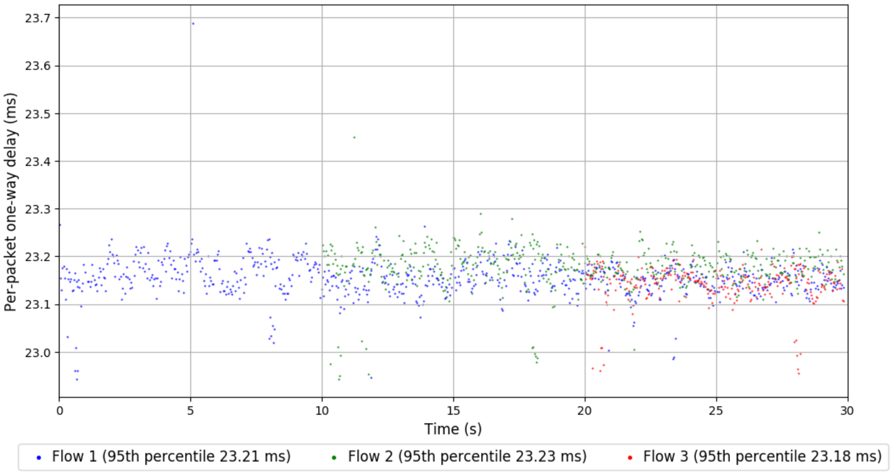




```
Run 3: Statistics of SCReAM

Start at: 2017-10-12 04:24:03
End at: 2017-10-12 04:24:33
Local clock offset: -0.314 ms
Remote clock offset: 0.706 ms

# Below is generated by plot.py at 2017-10-12 10:09:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 23.220 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.211 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.230 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.185 ms
Loss rate: 0.35%
```

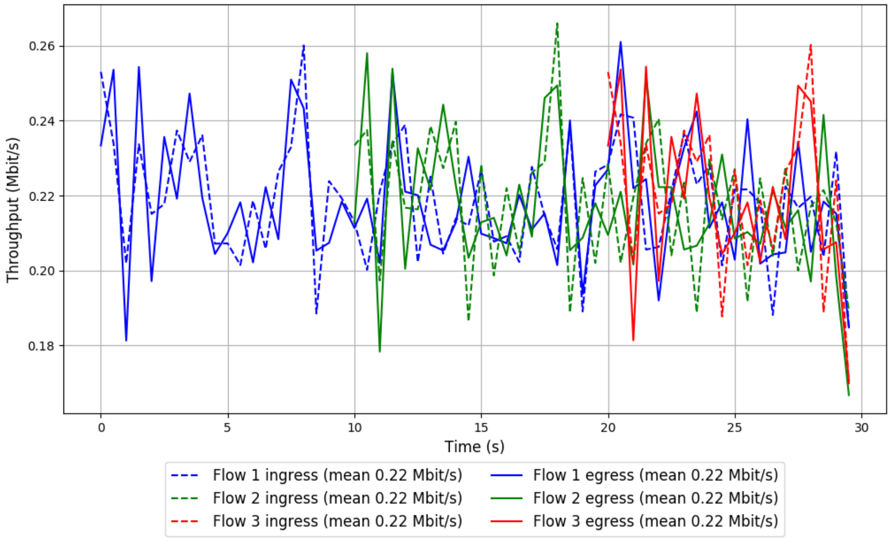
Run 3: Report of SCReAM — Data Link

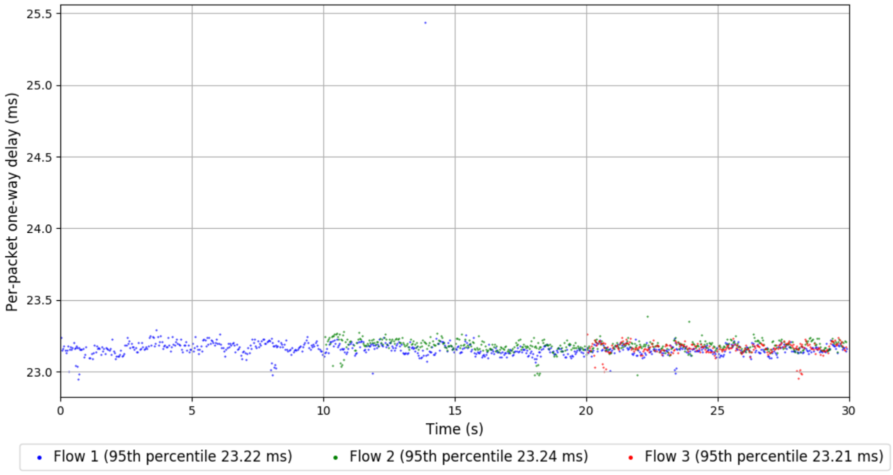




```
Run 4: Statistics of SCReAM

Start at: 2017-10-12 04:43:04
End at: 2017-10-12 04:43:34
Local clock offset: -0.267 ms
Remote clock offset: 1.368 ms

# Below is generated by plot.py at 2017-10-12 10:09:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 23.227 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.220 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.239 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.213 ms
Loss rate: 0.35%
```

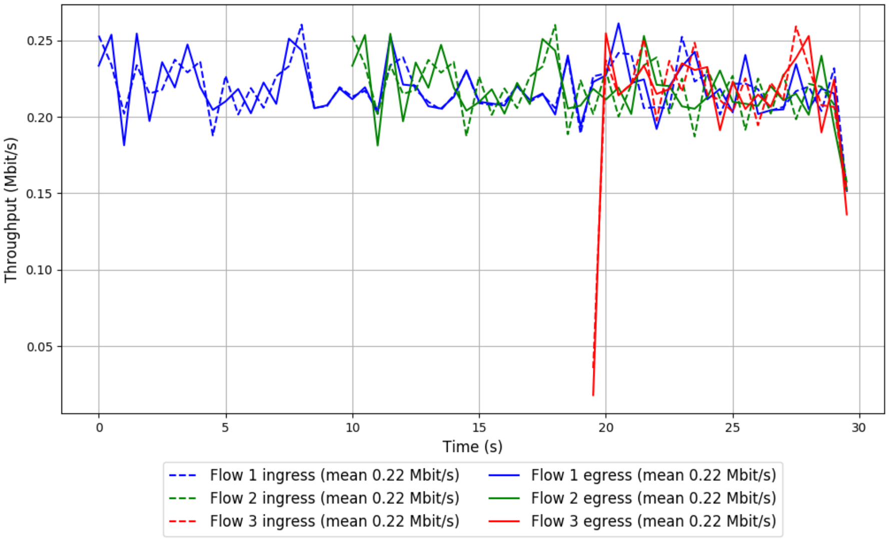
Run 4: Report of SCReAM — Data Link

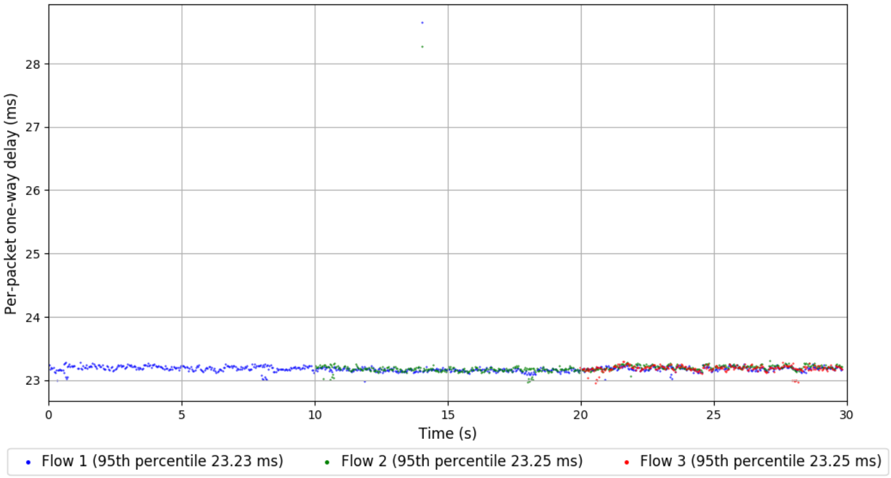




```
Run 5: Statistics of SCReAM

Start at: 2017-10-12 05:02:18
End at: 2017-10-12 05:02:48
Local clock offset: -0.478 ms
Remote clock offset: 1.719 ms

# Below is generated by plot.py at 2017-10-12 10:09:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 23.244 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.235 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.251 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.252 ms
Loss rate: 0.35%
```

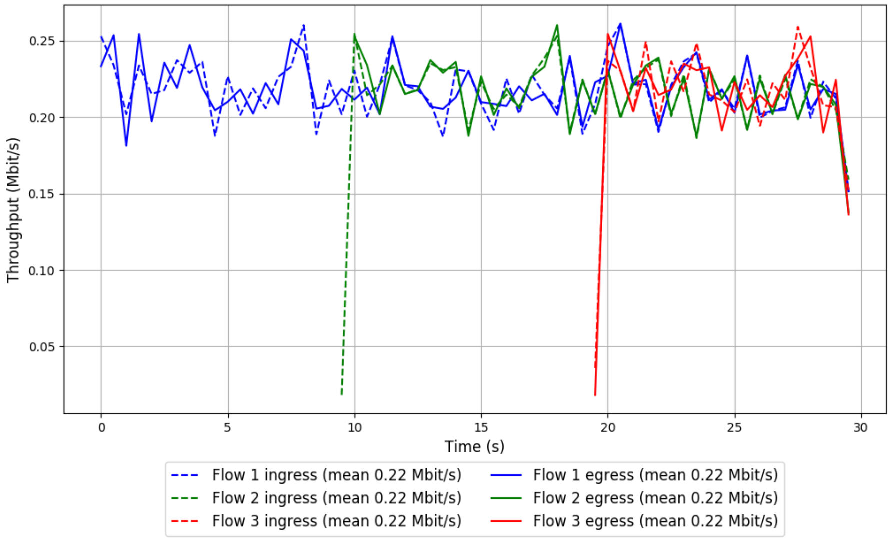
Run 5: Report of SCReAM — Data Link

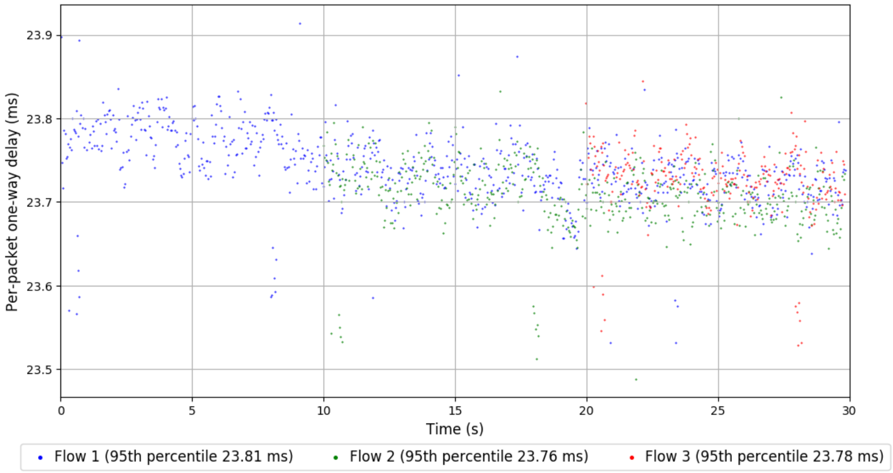




```
Run 6: Statistics of SCReAM

Start at: 2017-10-12 05:21:38
End at: 2017-10-12 05:22:08
Local clock offset: -0.543 ms
Remote clock offset: 1.114 ms

# Below is generated by plot.py at 2017-10-12 10:09:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 23.797 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.807 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.764 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.777 ms
Loss rate: 0.35%
```

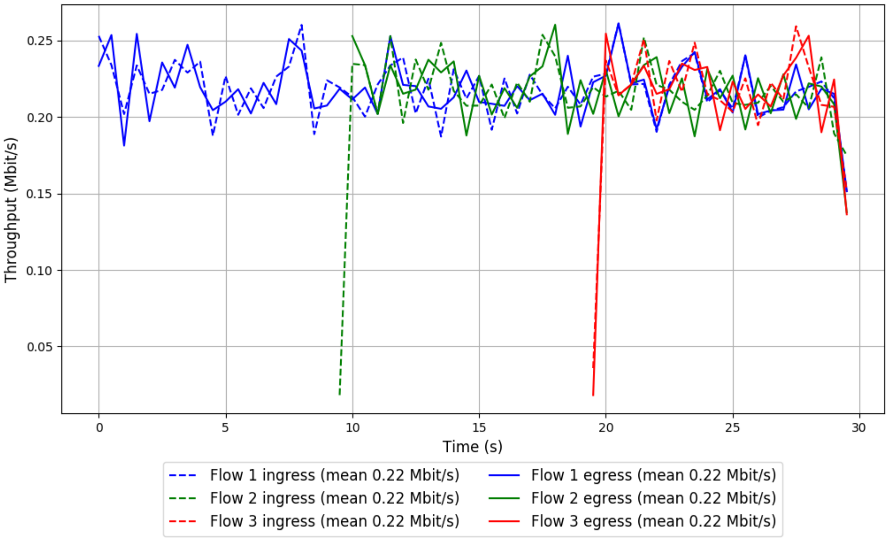
Run 6: Report of SCReAM — Data Link

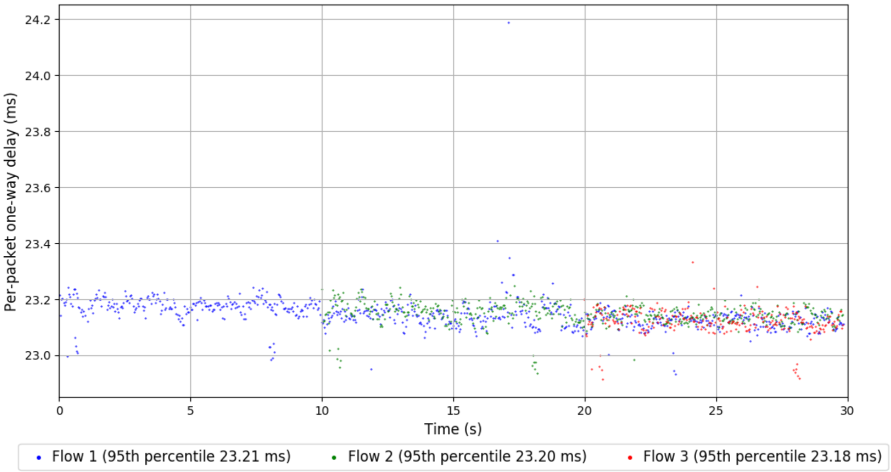




```
Run 7: Statistics of SCReAM

Start at: 2017-10-12 05:40:47
End at: 2017-10-12 05:41:17
Local clock offset: -0.165 ms
Remote clock offset: 1.438 ms

# Below is generated by plot.py at 2017-10-12 10:09:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 23.207 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.212 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.204 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.176 ms
Loss rate: 0.35%
```

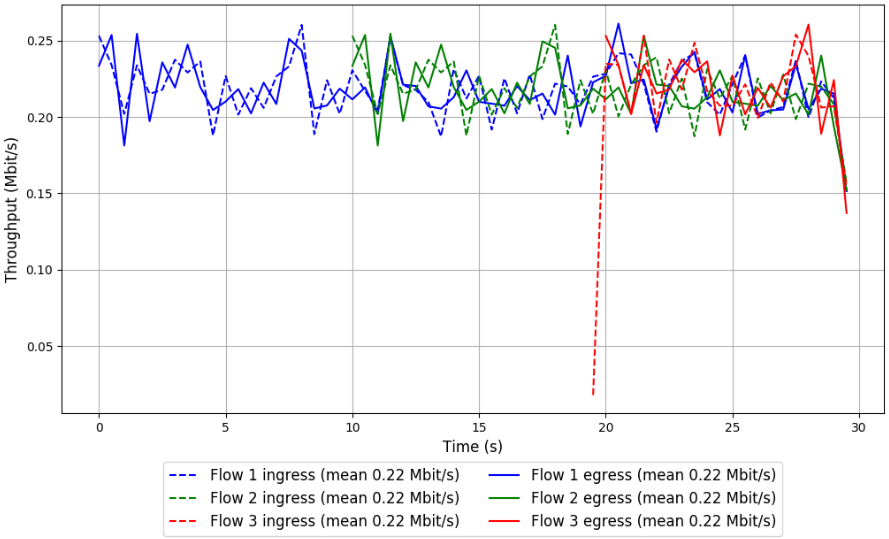
Run 7: Report of SCReAM — Data Link

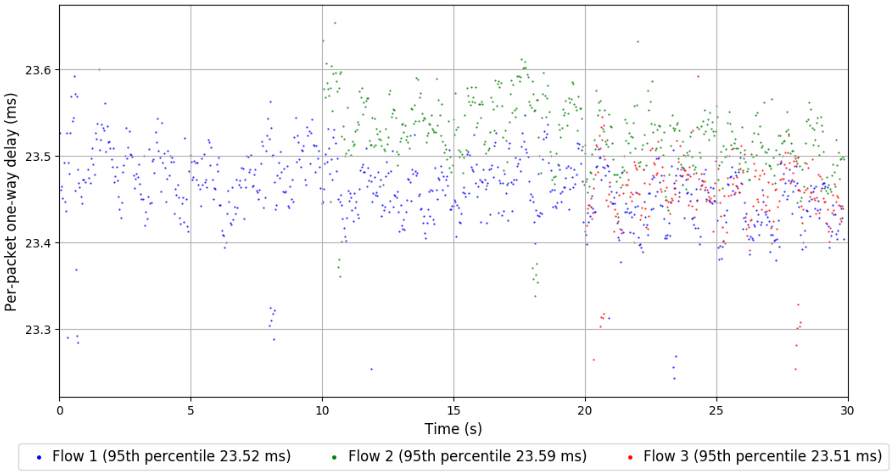




```
Run 8: Statistics of SCReAM

Start at: 2017-10-12 05:59:54
End at: 2017-10-12 06:00:24
Local clock offset: -0.053 ms
Remote clock offset: 0.053 ms

# Below is generated by plot.py at 2017-10-12 10:09:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 23.566 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.525 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.587 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.512 ms
Loss rate: 0.39%
```

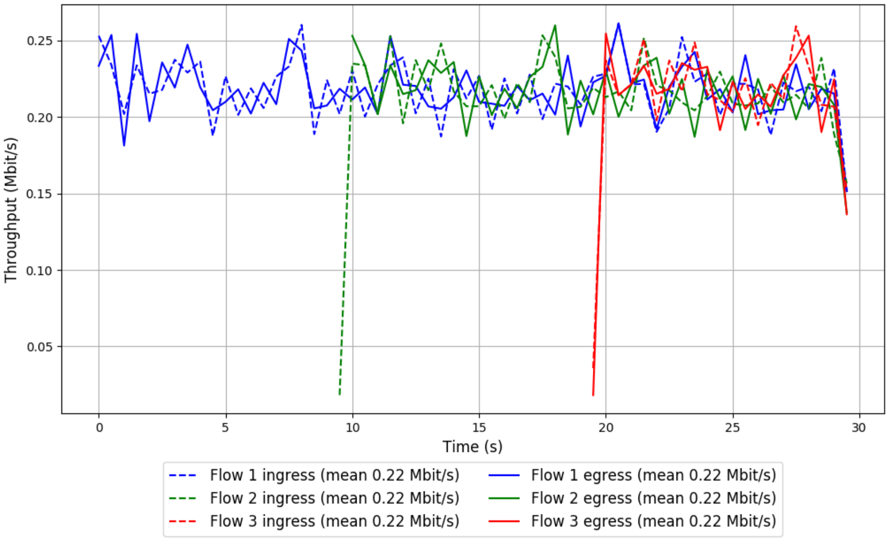
Run 8: Report of SCReAM — Data Link

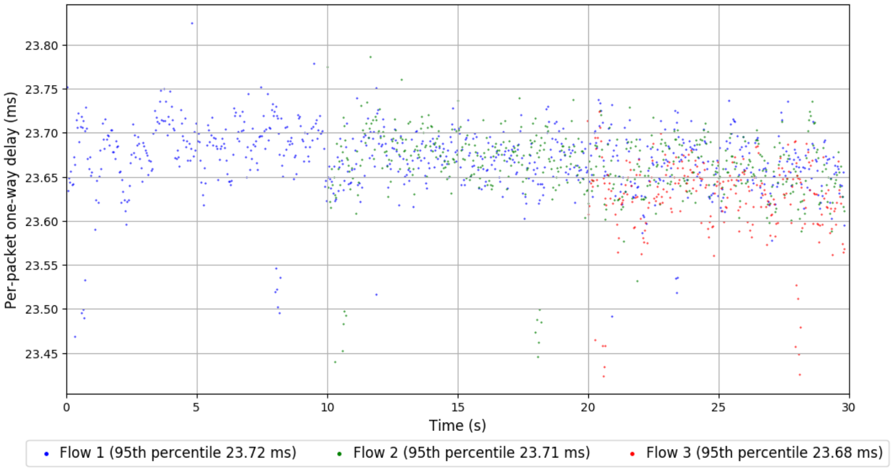




```
Run 9: Statistics of SCReAM

Start at: 2017-10-12 06:19:03
End at: 2017-10-12 06:19:33
Local clock offset: 0.009 ms
Remote clock offset: -1.021 ms

# Below is generated by plot.py at 2017-10-12 10:09:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 23.717 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.722 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.715 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.684 ms
Loss rate: 0.35%
```

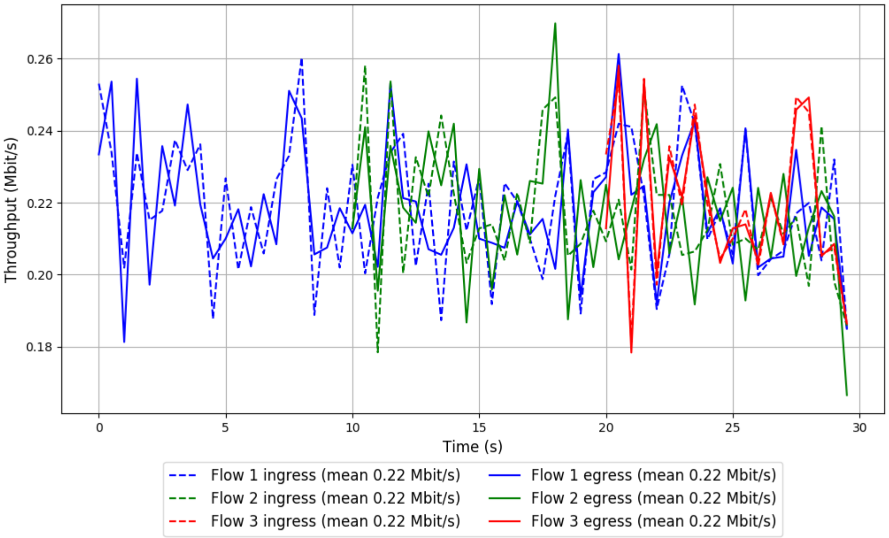
Run 9: Report of SCReAM — Data Link

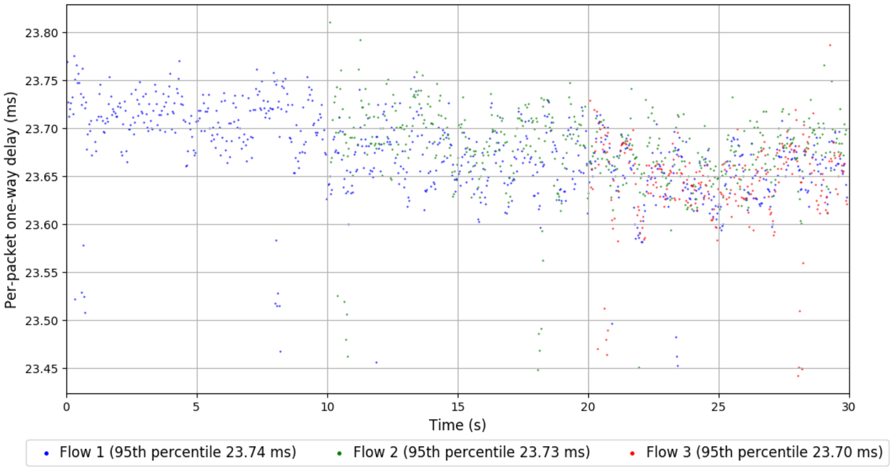




```
Run 10: Statistics of SCReAM

Start at: 2017-10-12 06:38:07
End at: 2017-10-12 06:38:37
Local clock offset: 0.066 ms
Remote clock offset: -1.639 ms

# Below is generated by plot.py at 2017-10-12 10:09:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 23.733 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.737 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.733 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.696 ms
Loss rate: 0.35%
```

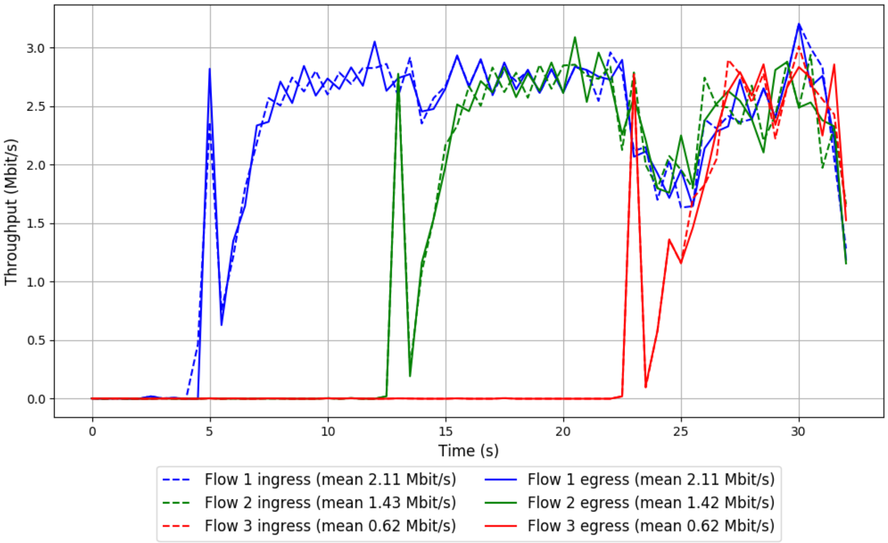
Run 10: Report of SCReAM — Data Link

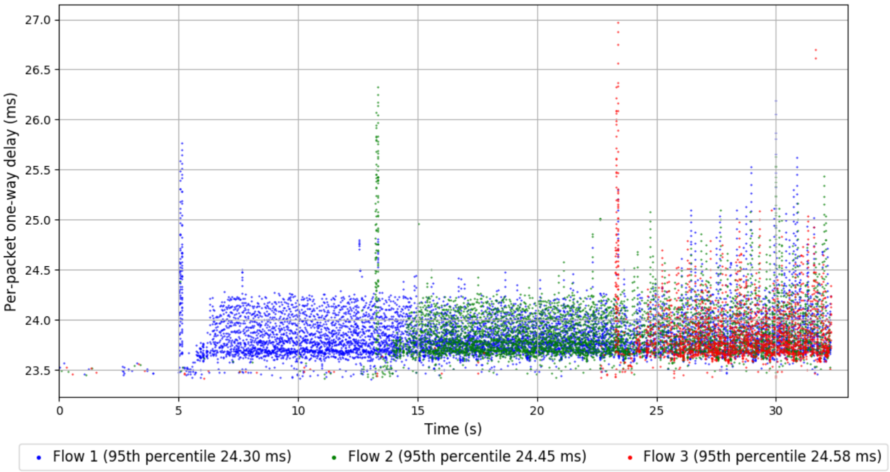




```
Run 1: Statistics of WebRTC media

Start at: 2017-10-12 03:43:16
End at: 2017-10-12 03:43:46
Local clock offset: -0.283 ms
Remote clock offset: -0.779 ms

# Below is generated by plot.py at 2017-10-12 10:09:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.14 Mbit/s
95th percentile per-packet one-way delay: 24.402 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 24.296 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 24.454 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 24.576 ms
Loss rate: 0.24%
```

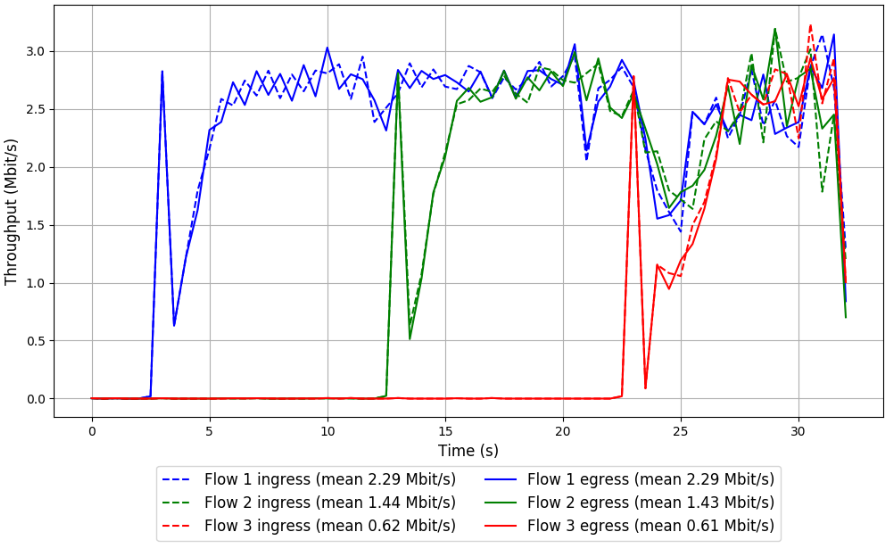
Run 1: Report of WebRTC media — Data Link

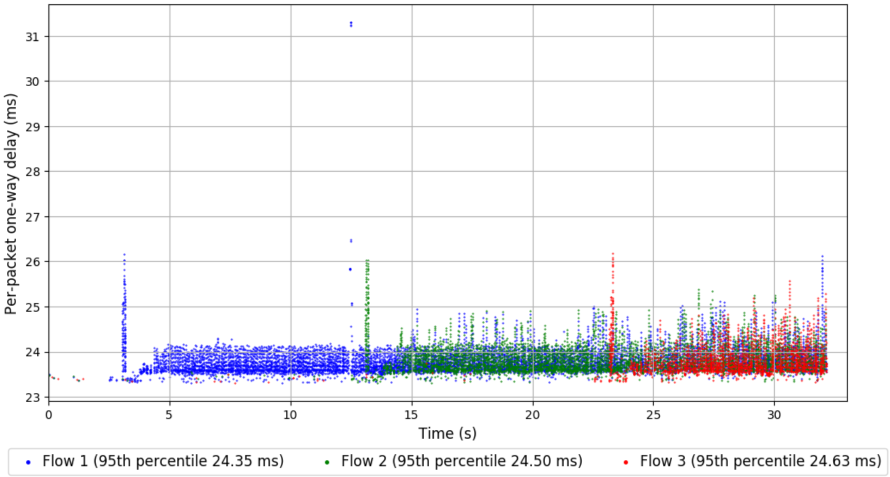




```
Run 2: Statistics of WebRTC media

Start at: 2017-10-12 04:02:17
End at: 2017-10-12 04:02:47
Local clock offset: -0.318 ms
Remote clock offset: -0.302 ms

# Below is generated by plot.py at 2017-10-12 10:09:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.33 Mbit/s
95th percentile per-packet one-way delay: 24.460 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 24.353 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 1.43 Mbit/s
95th percentile per-packet one-way delay: 24.502 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 24.631 ms
Loss rate: 1.07%
```

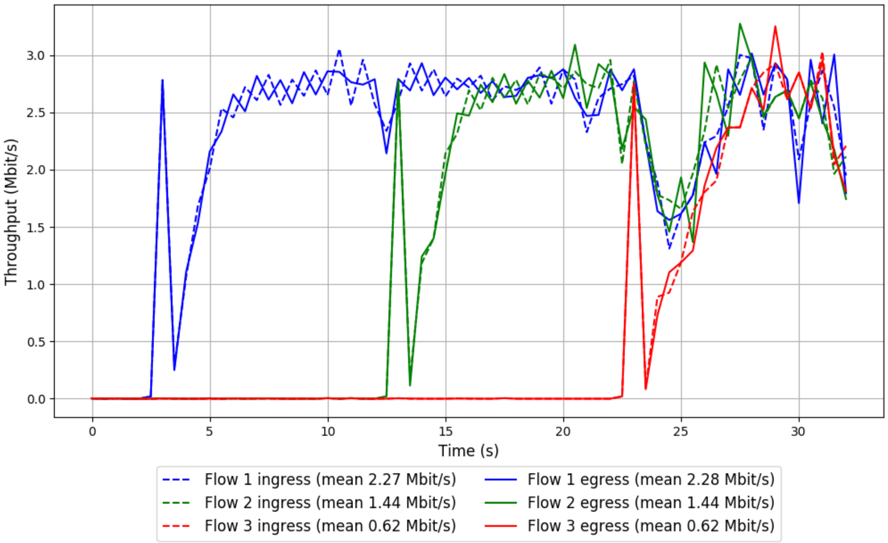
Run 2: Report of WebRTC media — Data Link

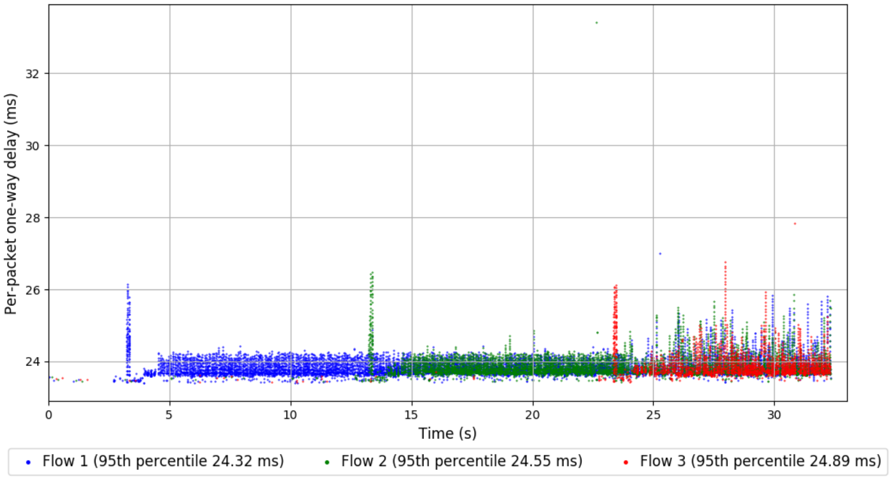




```
Run 3: Statistics of WebRTC media

Start at: 2017-10-12 04:21:25
End at: 2017-10-12 04:21:55
Local clock offset: -0.317 ms
Remote clock offset: 0.092 ms

# Below is generated by plot.py at 2017-10-12 10:09:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: 24.501 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 24.320 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 24.550 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 24.892 ms
Loss rate: 0.99%
```

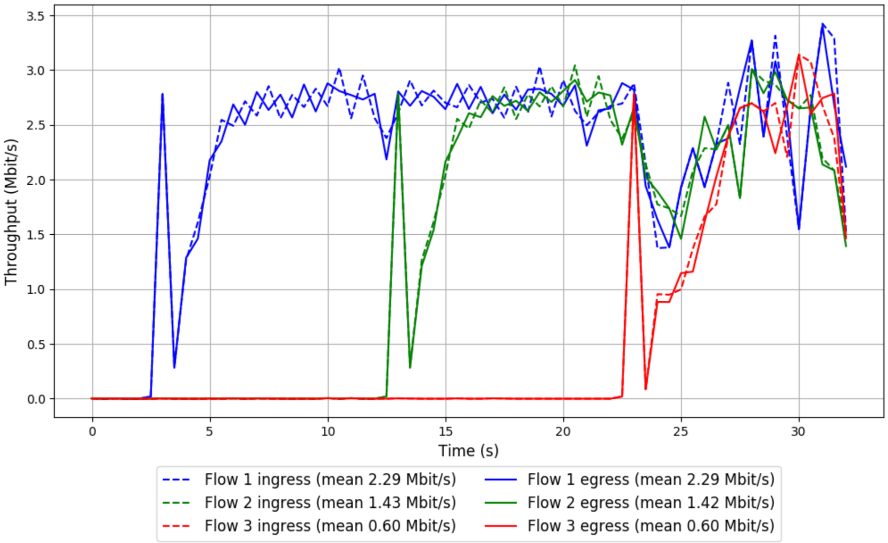
Run 3: Report of WebRTC media — Data Link

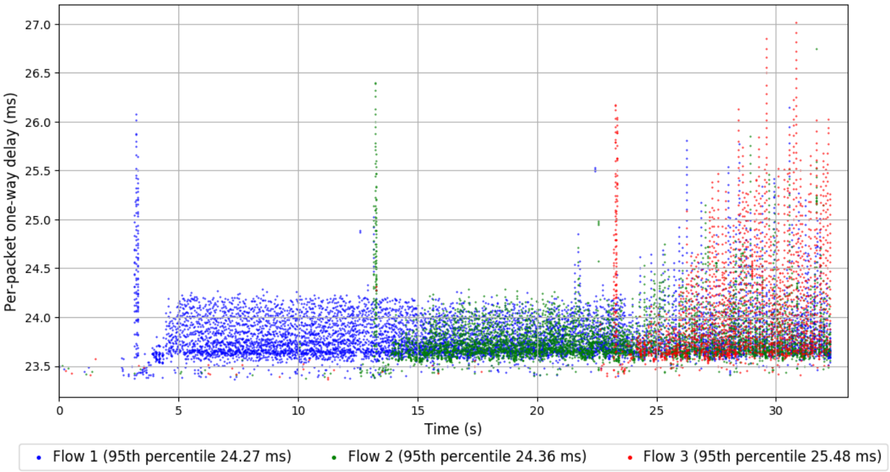




```
Run 4: Statistics of WebRTC media

Start at: 2017-10-12 04:40:27
End at: 2017-10-12 04:40:57
Local clock offset: -0.157 ms
Remote clock offset: 0.938 ms

# Below is generated by plot.py at 2017-10-12 10:09:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 24.680 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 24.274 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 24.355 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 25.483 ms
Loss rate: 0.01%
```

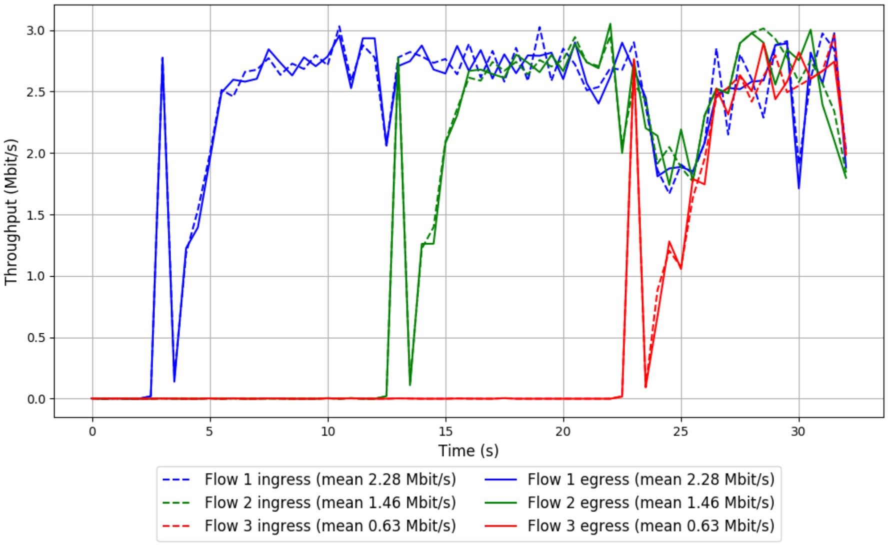
Run 4: Report of WebRTC media — Data Link

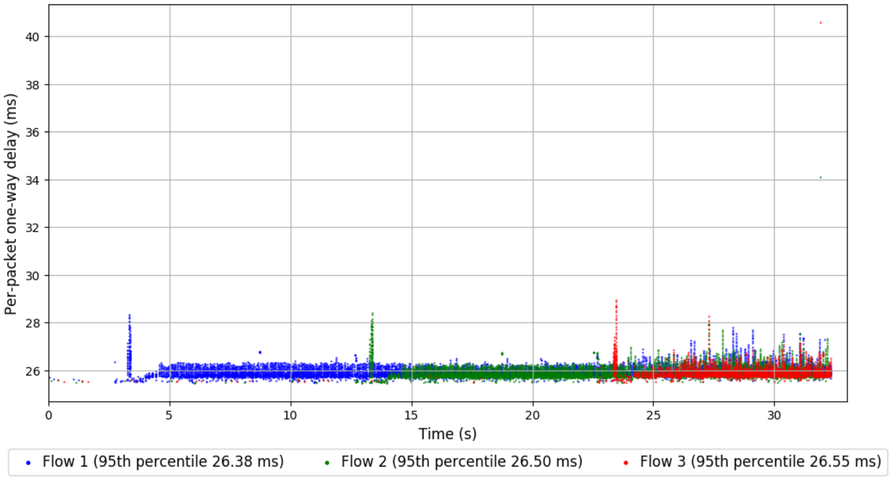




```
Run 5: Statistics of WebRTC media

Start at: 2017-10-12 04:59:39
End at: 2017-10-12 05:00:09
Local clock offset: -0.55 ms
Remote clock offset: -0.902 ms

# Below is generated by plot.py at 2017-10-12 10:09:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.35 Mbit/s
95th percentile per-packet one-way delay: 26.456 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 26.383 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 26.503 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 26.545 ms
Loss rate: 0.47%
```

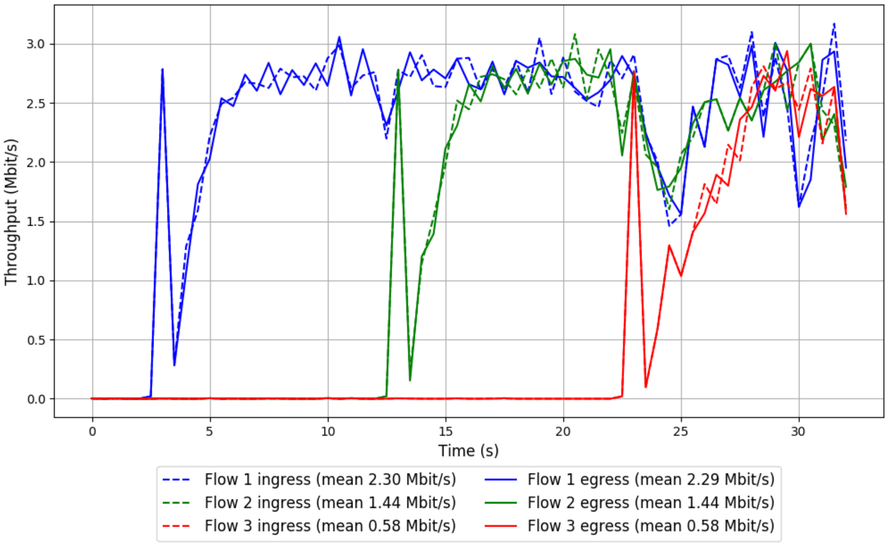
Run 5: Report of WebRTC media — Data Link

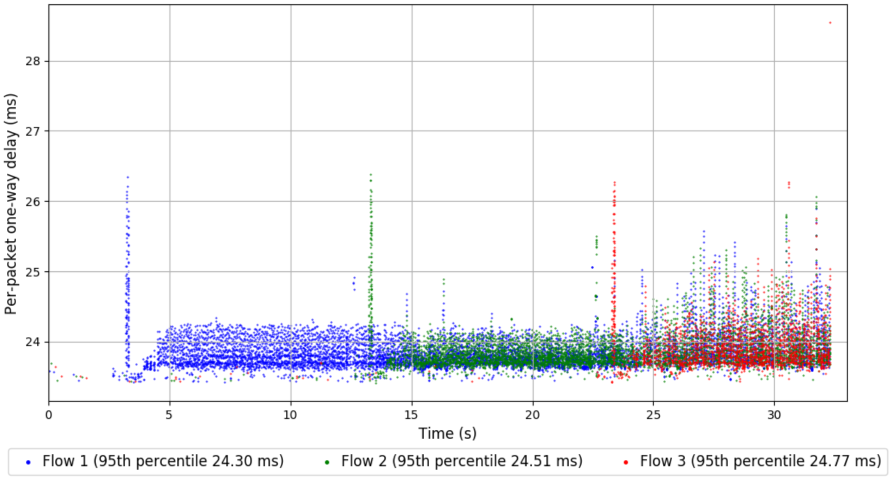




```
Run 6: Statistics of WebRTC media

Start at: 2017-10-12 05:18:57
End at: 2017-10-12 05:19:27
Local clock offset: -0.637 ms
Remote clock offset: 1.137 ms

# Below is generated by plot.py at 2017-10-12 10:09:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 24.459 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 24.301 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 24.507 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 24.771 ms
Loss rate: 0.11%
```

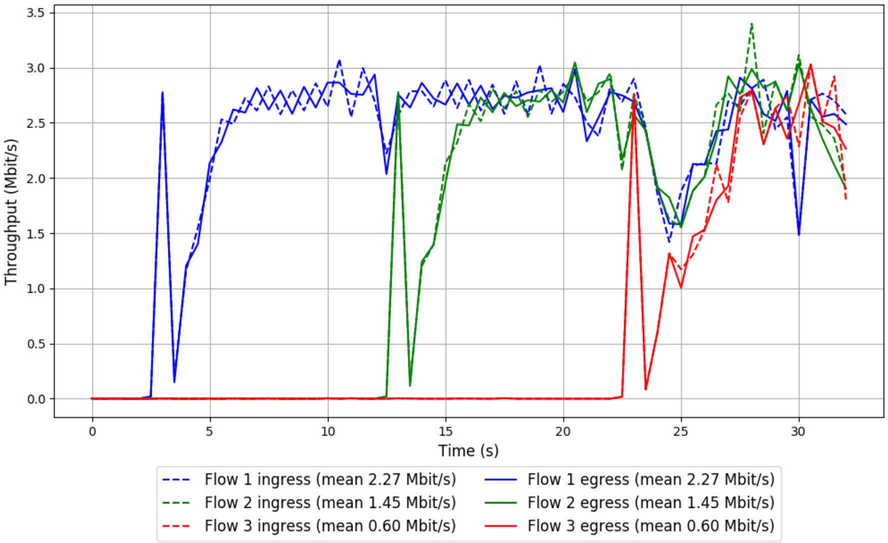
Run 6: Report of WebRTC media — Data Link

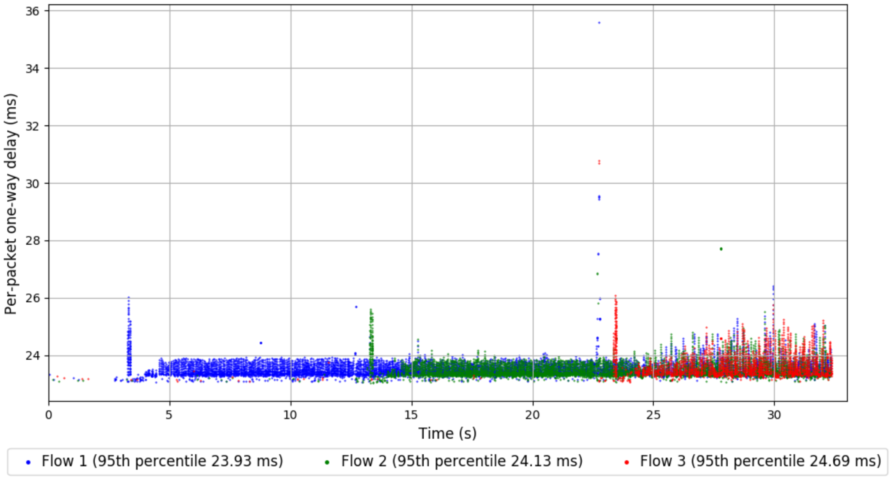




```
Run 7: Statistics of WebRTC media

Start at: 2017-10-12 05:38:08
End at: 2017-10-12 05:38:38
Local clock offset: -0.06 ms
Remote clock offset: 1.526 ms

# Below is generated by plot.py at 2017-10-12 10:09:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 24.193 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 23.931 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 24.133 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 24.692 ms
Loss rate: 0.00%
```

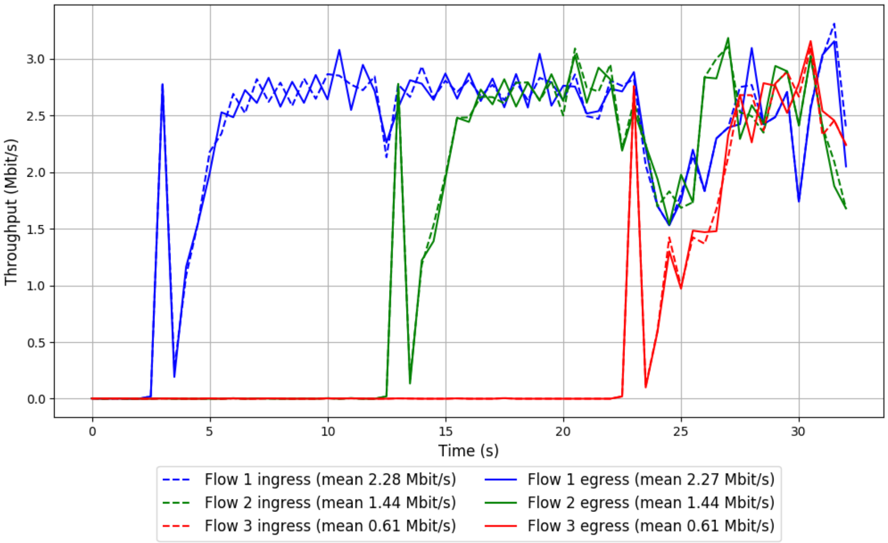
Run 7: Report of WebRTC media — Data Link

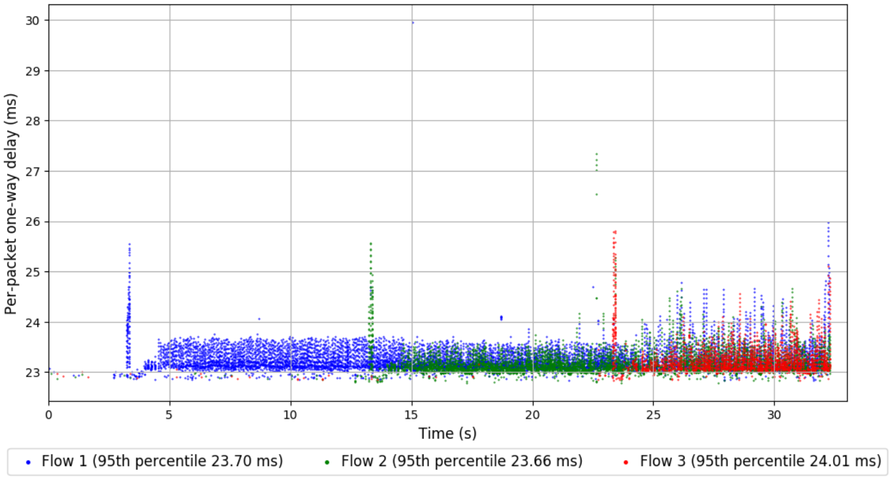




```
Run 8: Statistics of WebRTC media

Start at: 2017-10-12 05:57:16
End at: 2017-10-12 05:57:46
Local clock offset: -0.11 ms
Remote clock offset: 0.621 ms

# Below is generated by plot.py at 2017-10-12 10:09:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 23.744 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 23.699 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 23.665 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 24.008 ms
Loss rate: 0.01%
```

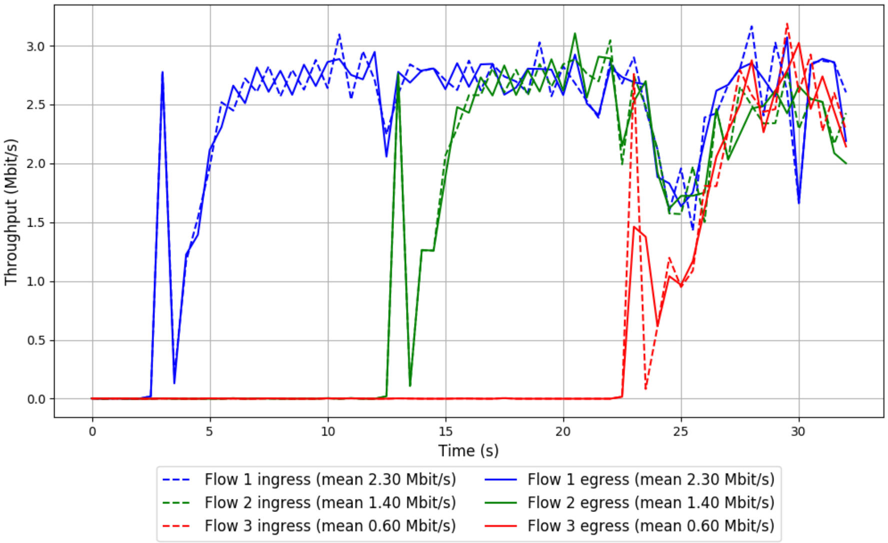
Run 8: Report of WebRTC media — Data Link

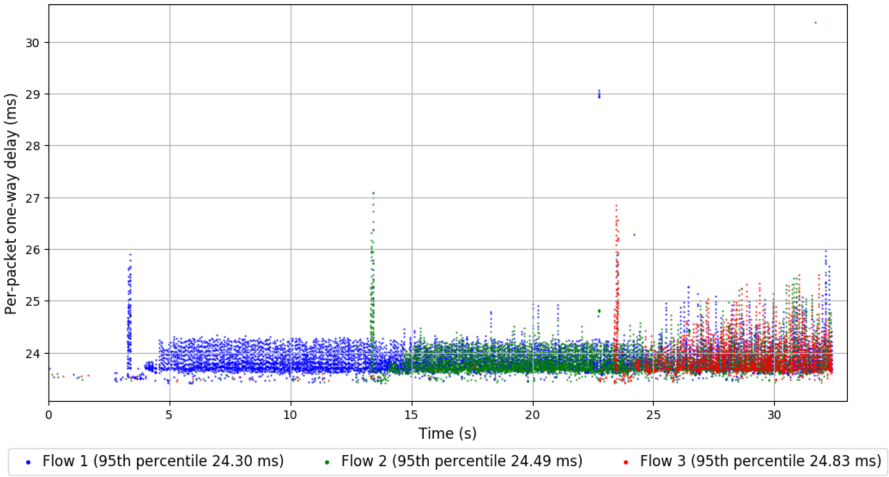




```
Run 9: Statistics of WebRTC media

Start at: 2017-10-12 06:16:25
End at: 2017-10-12 06:16:55
Local clock offset: 0.087 ms
Remote clock offset: -0.828 ms

# Below is generated by plot.py at 2017-10-12 10:09:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.28 Mbit/s
95th percentile per-packet one-way delay: 24.488 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 24.302 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 1.40 Mbit/s
95th percentile per-packet one-way delay: 24.492 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 24.834 ms
Loss rate: 0.75%
```

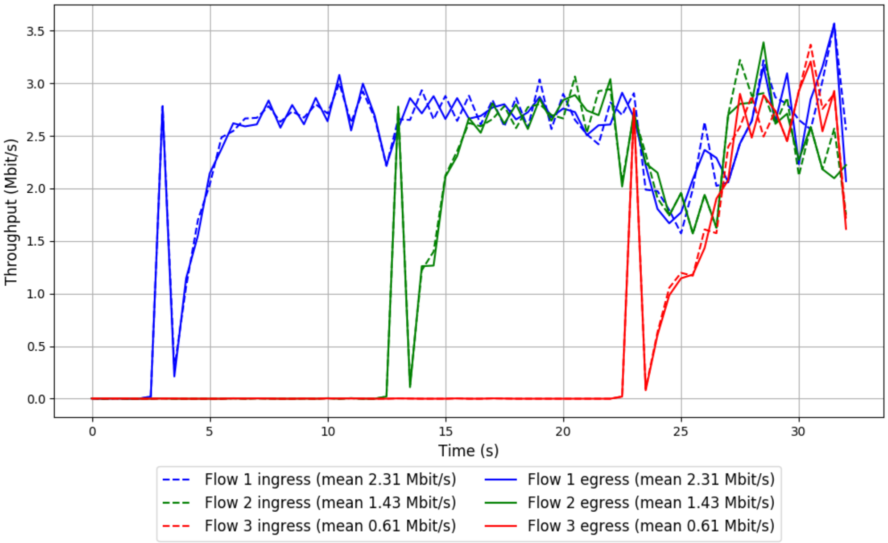
Run 9: Report of WebRTC media — Data Link

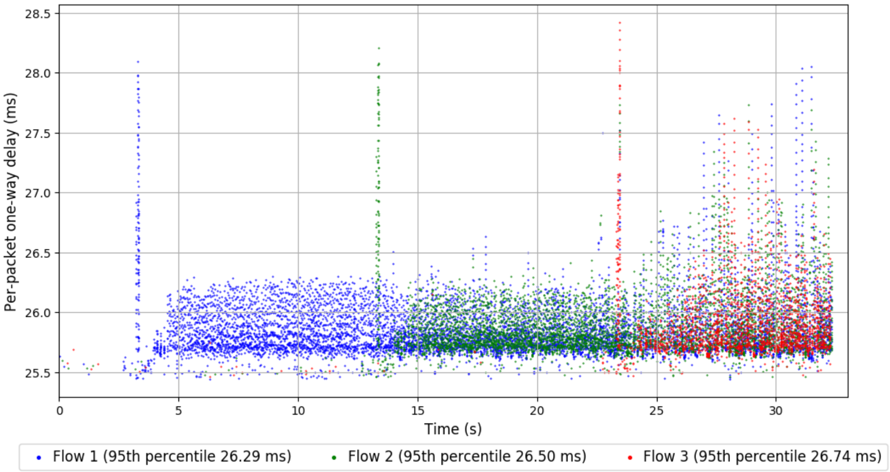




```
Run 10: Statistics of WebRTC media

Start at: 2017-10-12 06:35:29
End at: 2017-10-12 06:35:59
Local clock offset: -0.027 ms
Remote clock offset: -3.7 ms

# Below is generated by plot.py at 2017-10-12 10:09:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.33 Mbit/s
95th percentile per-packet one-way delay: 26.455 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 26.292 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 1.43 Mbit/s
95th percentile per-packet one-way delay: 26.505 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 26.738 ms
Loss rate: 1.11%
```

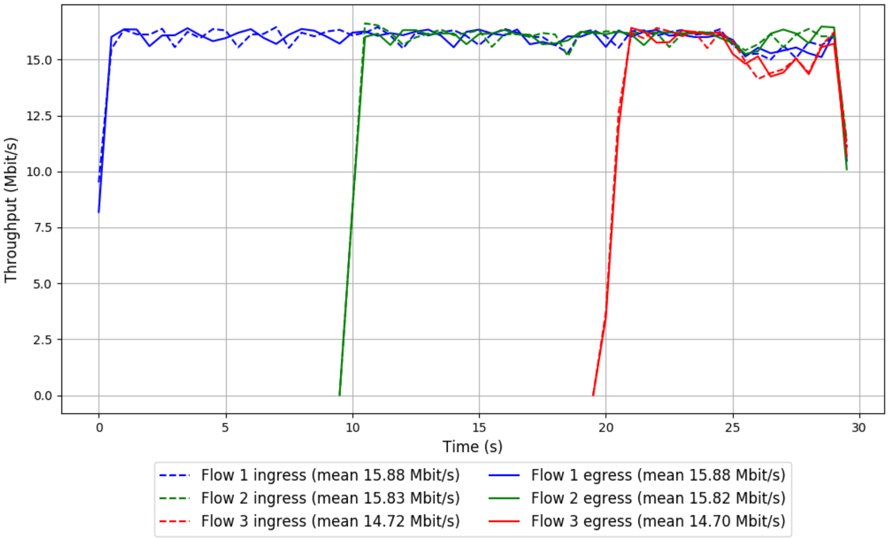
Run 10: Report of WebRTC media — Data Link

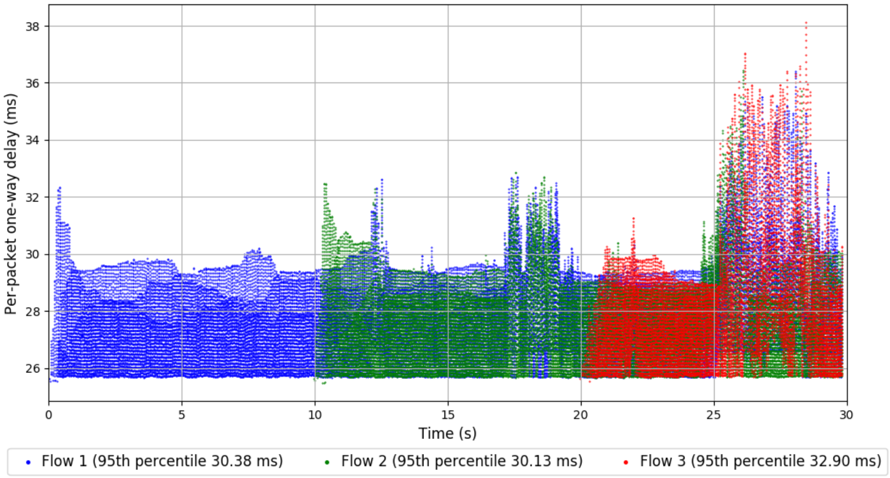




```
Run 1: Statistics of Sprout

Start at: 2017-10-12 03:41:58
End at: 2017-10-12 03:42:28
Local clock offset: -0.184 ms
Remote clock offset: -2.737 ms

# Below is generated by plot.py at 2017-10-12 10:09:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.27 Mbit/s
95th percentile per-packet one-way delay: 30.622 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 15.88 Mbit/s
95th percentile per-packet one-way delay: 30.381 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 15.82 Mbit/s
95th percentile per-packet one-way delay: 30.134 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 14.70 Mbit/s
95th percentile per-packet one-way delay: 32.896 ms
Loss rate: 0.56%
```

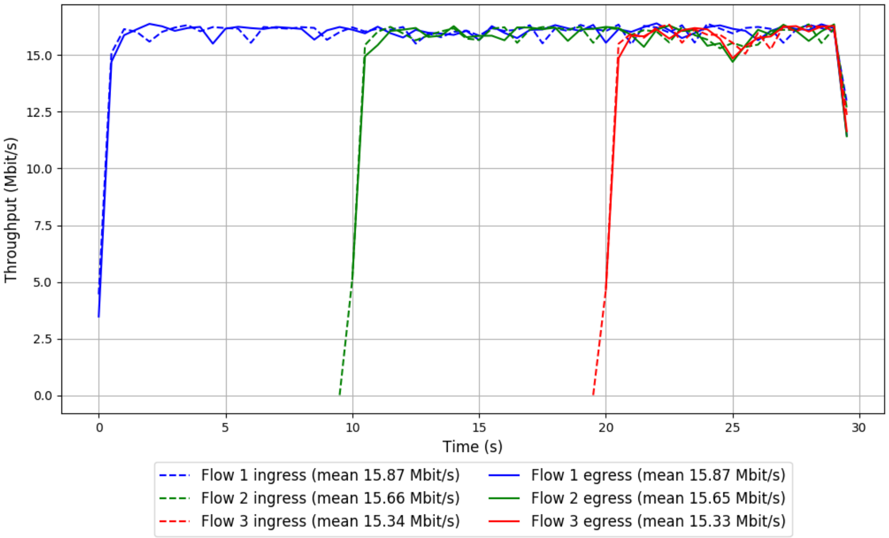
Run 1: Report of Sprout — Data Link

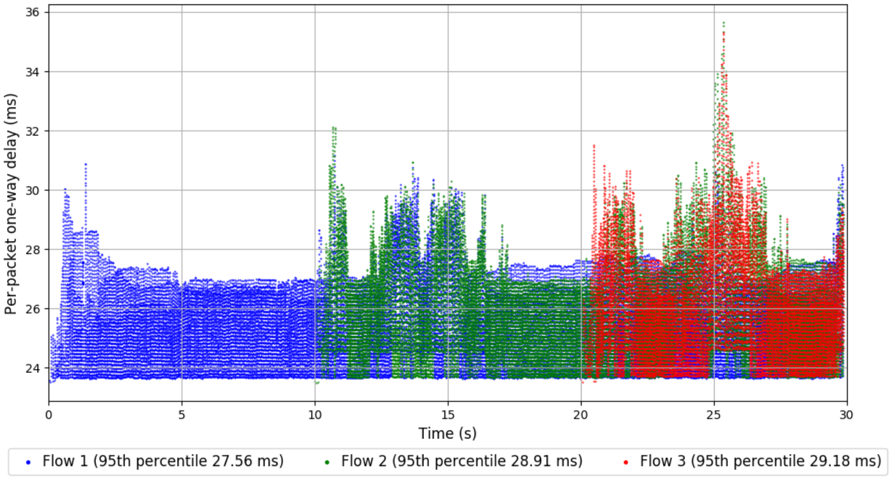




```
Run 2: Statistics of Sprout

Start at: 2017-10-12 04:00:59
End at: 2017-10-12 04:01:29
Local clock offset: -0.309 ms
Remote clock offset: -0.425 ms

# Below is generated by plot.py at 2017-10-12 10:09:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.33 Mbit/s
95th percentile per-packet one-way delay: 28.514 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 15.87 Mbit/s
95th percentile per-packet one-way delay: 27.560 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 15.65 Mbit/s
95th percentile per-packet one-way delay: 28.911 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 15.33 Mbit/s
95th percentile per-packet one-way delay: 29.184 ms
Loss rate: 0.41%
```

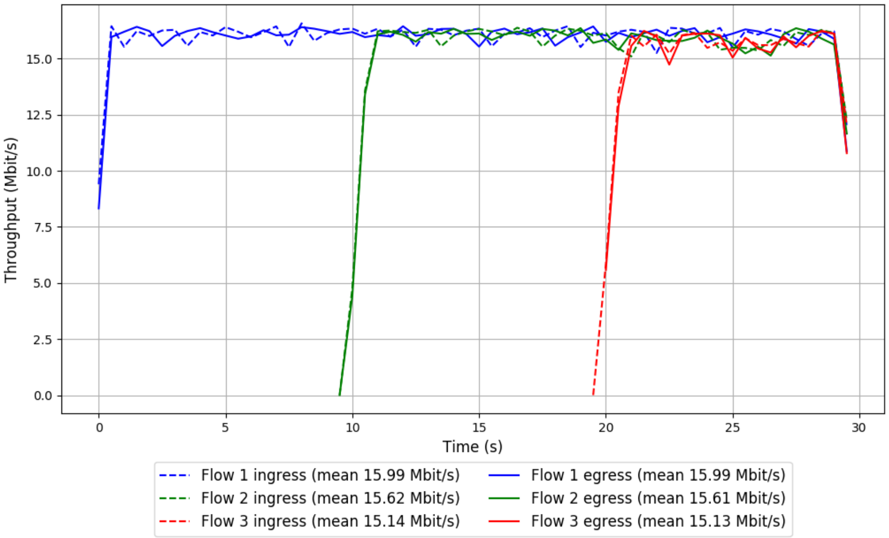
Run 2: Report of Sprout — Data Link

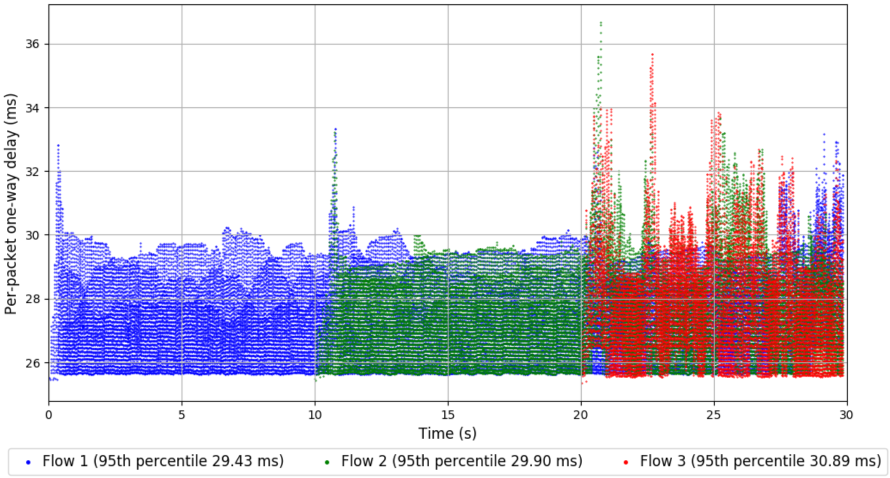




```
Run 3: Statistics of Sprout

Start at: 2017-10-12 04:20:07
End at: 2017-10-12 04:20:37
Local clock offset: -0.324 ms
Remote clock offset: -1.862 ms

# Below is generated by plot.py at 2017-10-12 10:09:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.37 Mbit/s
95th percentile per-packet one-way delay: 29.824 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 15.99 Mbit/s
95th percentile per-packet one-way delay: 29.428 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 15.61 Mbit/s
95th percentile per-packet one-way delay: 29.896 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 15.13 Mbit/s
95th percentile per-packet one-way delay: 30.891 ms
Loss rate: 0.65%
```

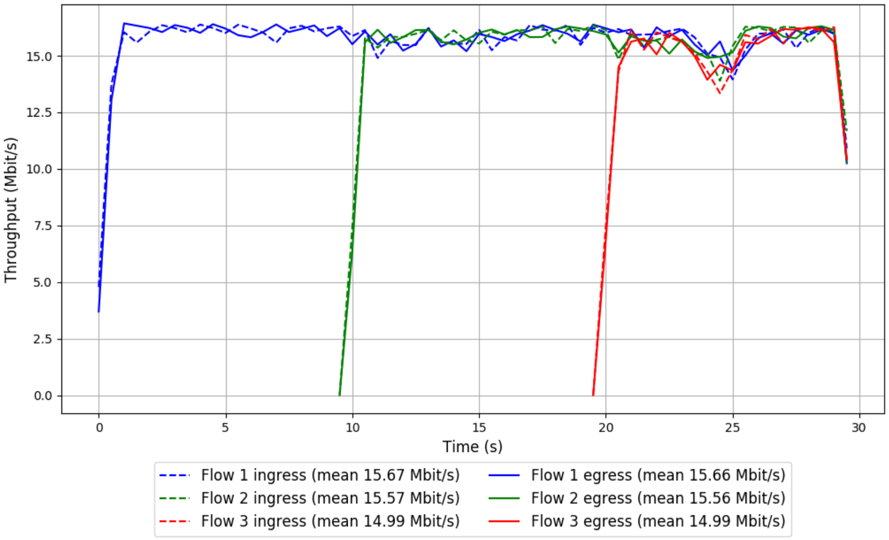
Run 3: Report of Sprout — Data Link

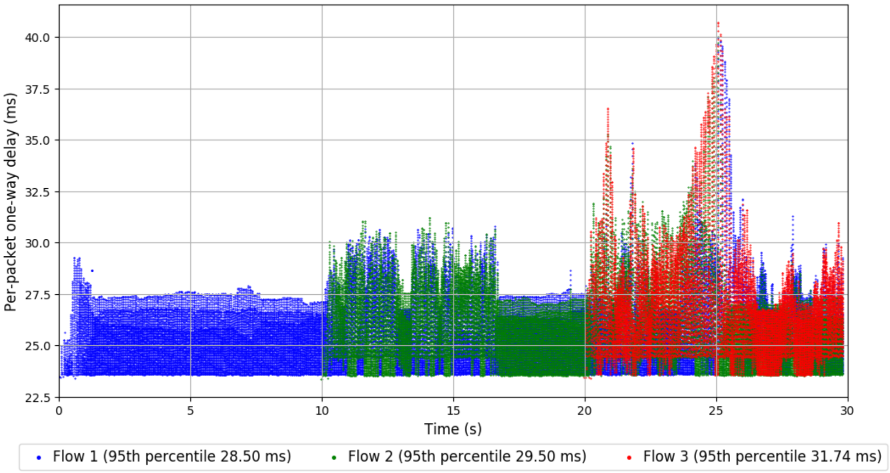




```
Run 4: Statistics of Sprout

Start at: 2017-10-12 04:39:08
End at: 2017-10-12 04:39:38
Local clock offset: -0.177 ms
Remote clock offset: 0.907 ms

# Below is generated by plot.py at 2017-10-12 10:09:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.98 Mbit/s
95th percentile per-packet one-way delay: 29.337 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 15.66 Mbit/s
95th percentile per-packet one-way delay: 28.500 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 15.56 Mbit/s
95th percentile per-packet one-way delay: 29.500 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 14.99 Mbit/s
95th percentile per-packet one-way delay: 31.738 ms
Loss rate: 0.42%
```

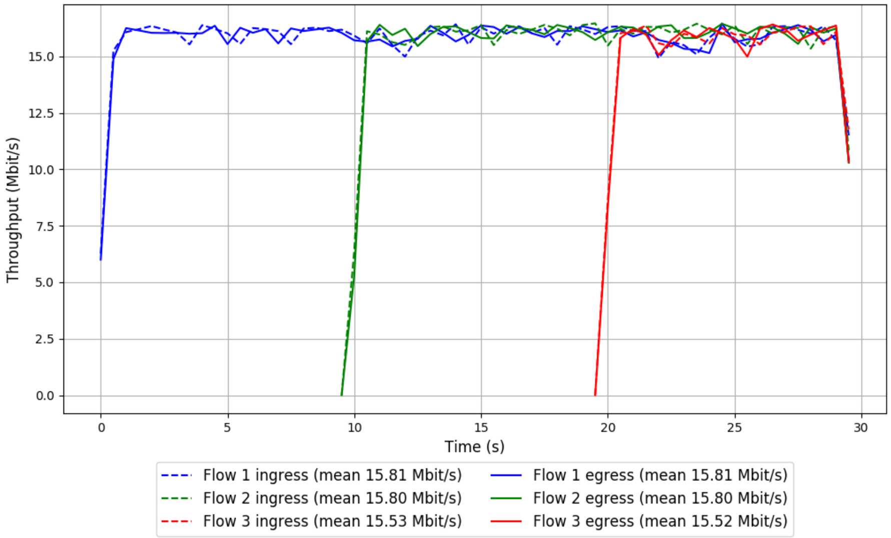
Run 4: Report of Sprout — Data Link

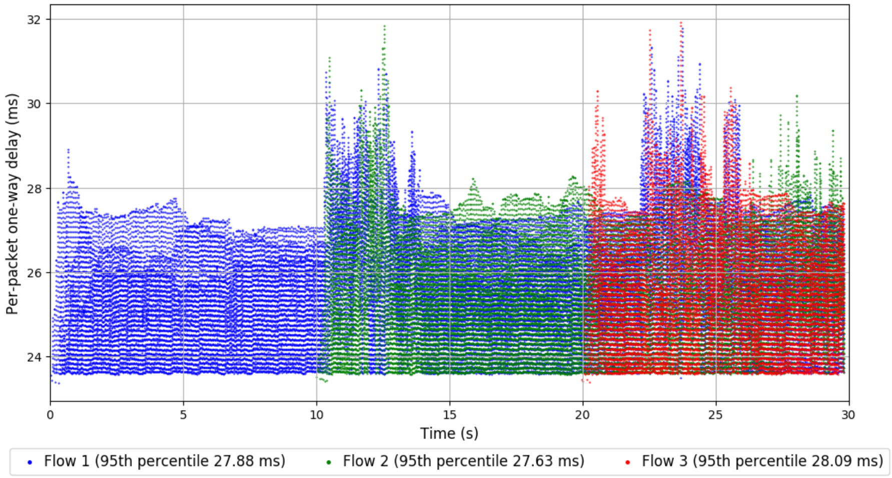




```
Run 5: Statistics of Sprout

Start at: 2017-10-12 04:58:20
End at: 2017-10-12 04:58:50
Local clock offset: -0.514 ms
Remote clock offset: 1.171 ms

# Below is generated by plot.py at 2017-10-12 10:09:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.47 Mbit/s
95th percentile per-packet one-way delay: 27.828 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 15.81 Mbit/s
95th percentile per-packet one-way delay: 27.883 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 15.80 Mbit/s
95th percentile per-packet one-way delay: 27.634 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 15.52 Mbit/s
95th percentile per-packet one-way delay: 28.093 ms
Loss rate: 0.63%
```

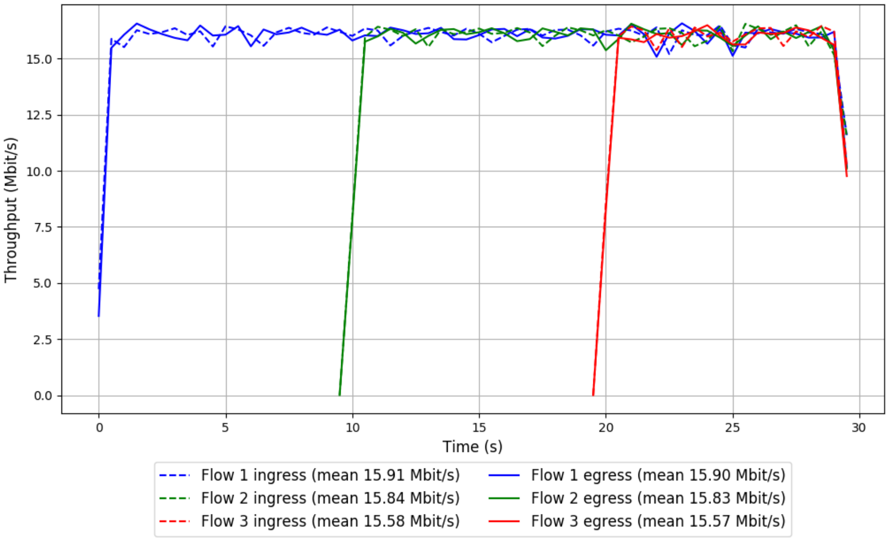
Run 5: Report of Sprout — Data Link

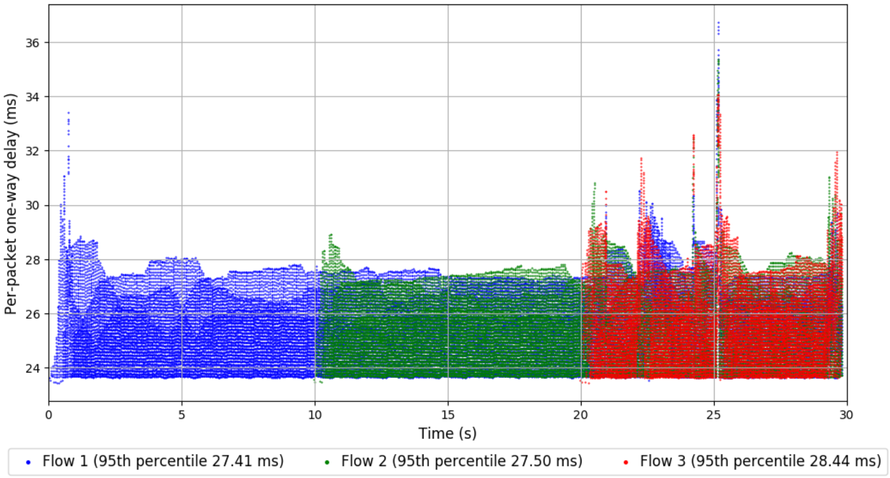




```
Run 6: Statistics of Sprout

Start at: 2017-10-12 05:17:38
End at: 2017-10-12 05:18:08
Local clock offset: -0.648 ms
Remote clock offset: 1.13 ms

# Below is generated by plot.py at 2017-10-12 10:10:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.58 Mbit/s
95th percentile per-packet one-way delay: 27.604 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 15.90 Mbit/s
95th percentile per-packet one-way delay: 27.411 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 15.83 Mbit/s
95th percentile per-packet one-way delay: 27.499 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 15.57 Mbit/s
95th percentile per-packet one-way delay: 28.443 ms
Loss rate: 0.66%
```

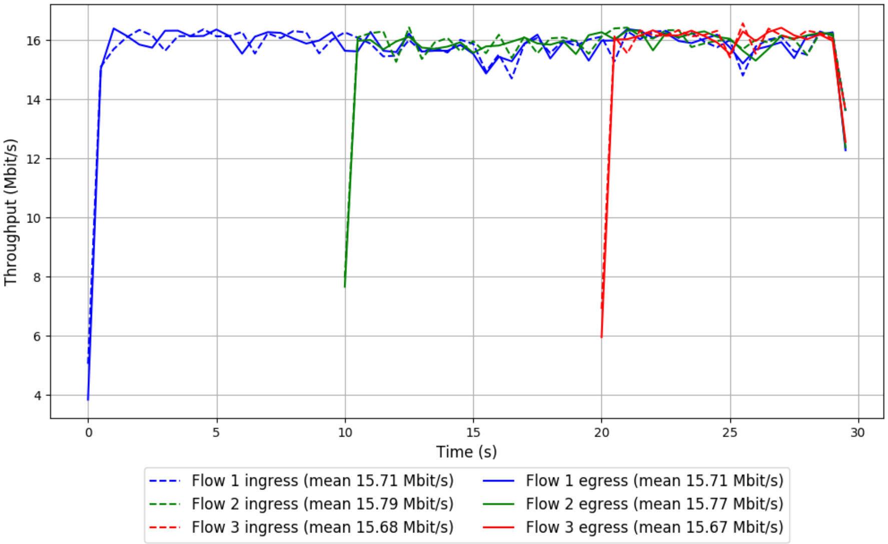
Run 6: Report of Sprout — Data Link

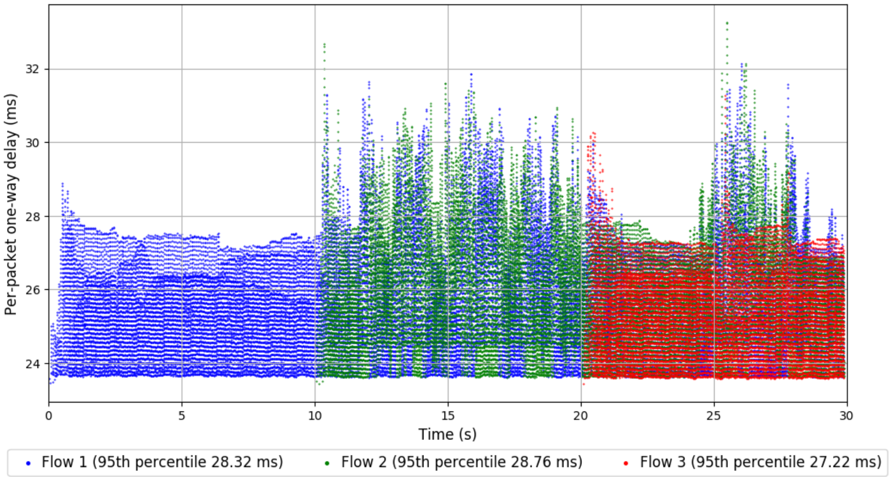




```
Run 7: Statistics of Sprout

Start at: 2017-10-12 05:36:50
End at: 2017-10-12 05:37:20
Local clock offset: -0.081 ms
Remote clock offset: 1.231 ms

# Below is generated by plot.py at 2017-10-12 10:10:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.35 Mbit/s
95th percentile per-packet one-way delay: 28.372 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 15.71 Mbit/s
95th percentile per-packet one-way delay: 28.317 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 15.77 Mbit/s
95th percentile per-packet one-way delay: 28.762 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 15.67 Mbit/s
95th percentile per-packet one-way delay: 27.221 ms
Loss rate: 0.63%
```

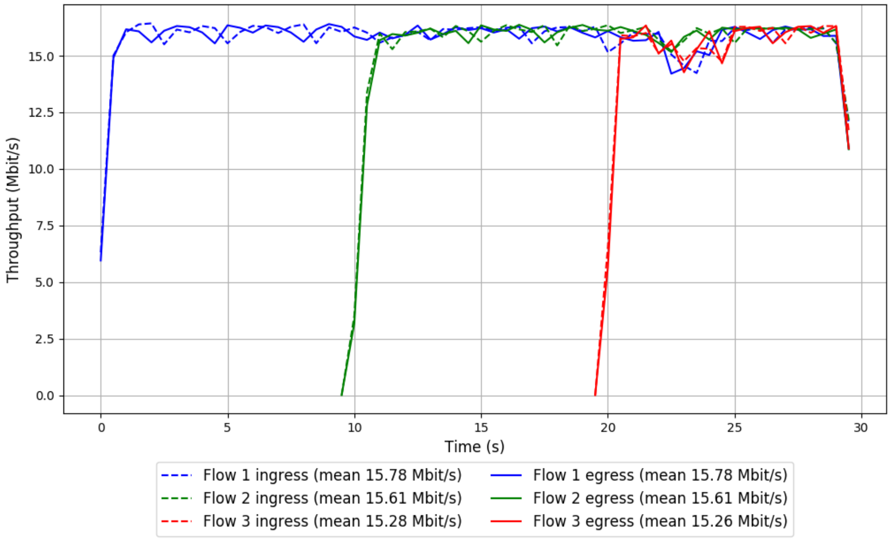
Run 7: Report of Sprout — Data Link

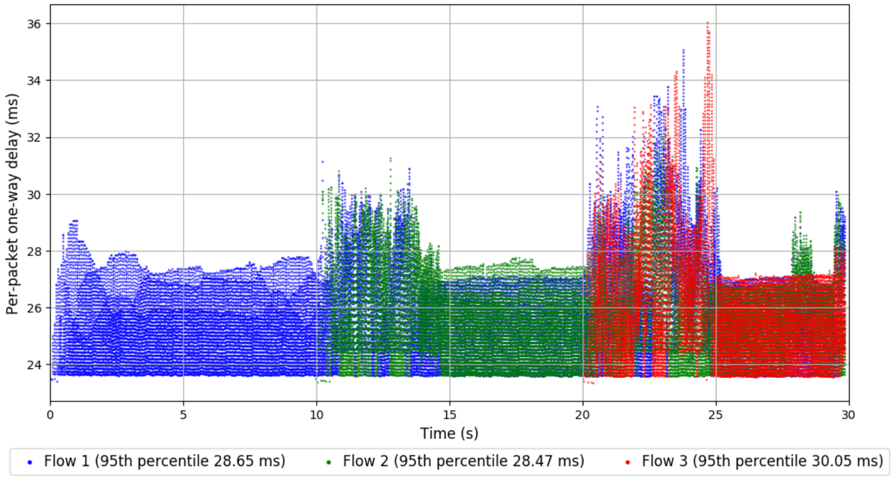




```
Run 8: Statistics of Sprout

Start at: 2017-10-12 05:55:58
End at: 2017-10-12 05:56:28
Local clock offset: -0.009 ms
Remote clock offset: 0.266 ms

# Below is generated by plot.py at 2017-10-12 10:10:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.21 Mbit/s
95th percentile per-packet one-way delay: 28.800 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 15.78 Mbit/s
95th percentile per-packet one-way delay: 28.651 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 15.61 Mbit/s
95th percentile per-packet one-way delay: 28.473 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 15.26 Mbit/s
95th percentile per-packet one-way delay: 30.045 ms
Loss rate: 0.50%
```

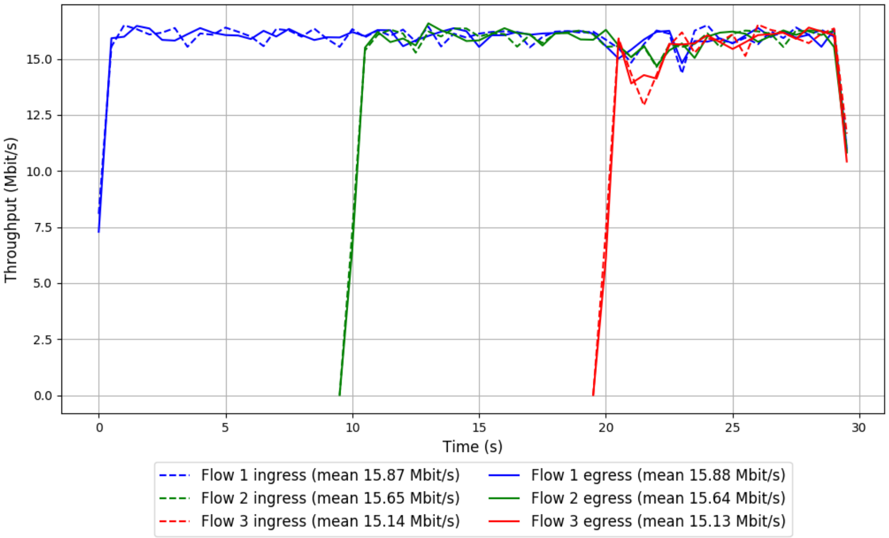
Run 8: Report of Sprout — Data Link

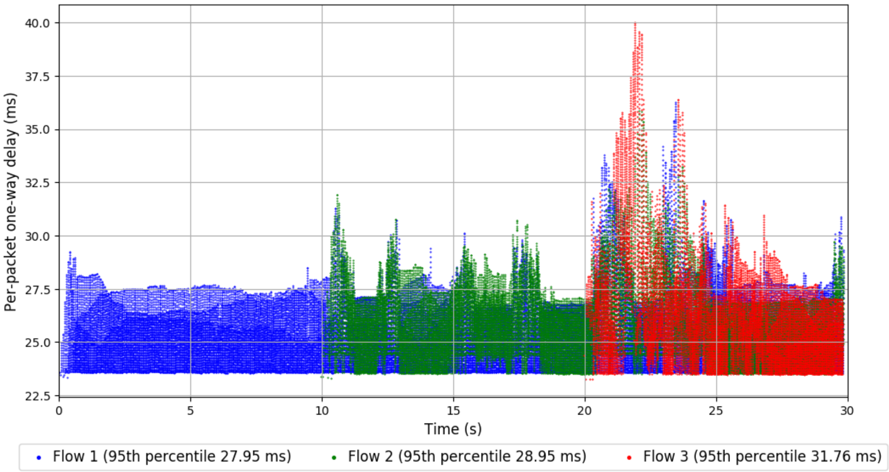




```
Run 9: Statistics of Sprout

Start at: 2017-10-12 06:15:07
End at: 2017-10-12 06:15:37
Local clock offset: 0.024 ms
Remote clock offset: -0.644 ms

# Below is generated by plot.py at 2017-10-12 10:10:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.29 Mbit/s
95th percentile per-packet one-way delay: 28.873 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 15.88 Mbit/s
95th percentile per-packet one-way delay: 27.952 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 15.64 Mbit/s
95th percentile per-packet one-way delay: 28.951 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 15.13 Mbit/s
95th percentile per-packet one-way delay: 31.756 ms
Loss rate: 0.65%
```

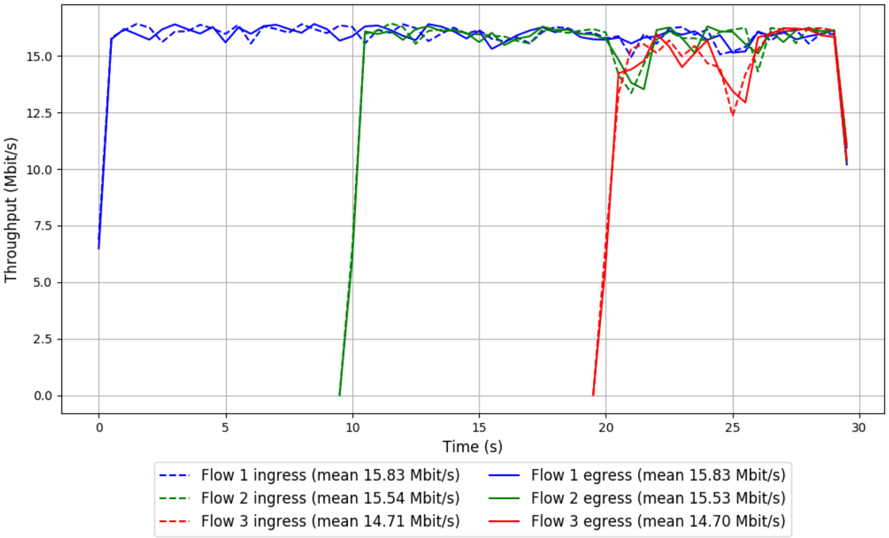
Run 9: Report of Sprout — Data Link

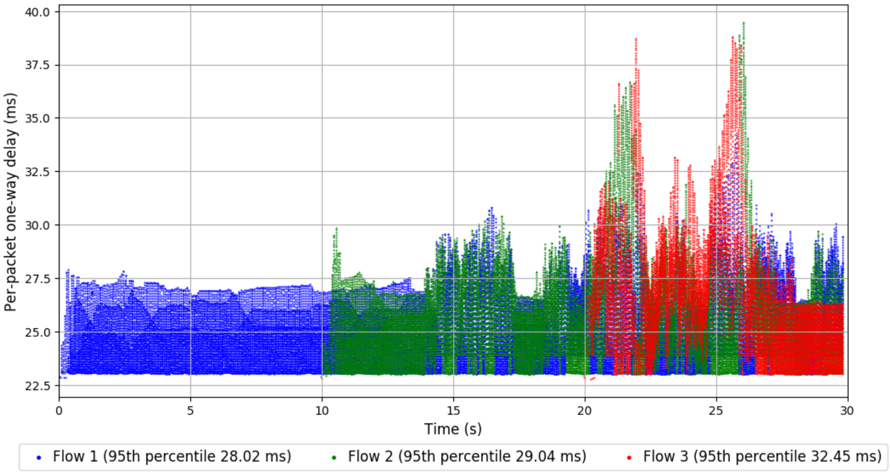




```
Run 10: Statistics of Sprout

Start at: 2017-10-12 06:34:11
End at: 2017-10-12 06:34:41
Local clock offset: -0.036 ms
Remote clock offset: -0.981 ms

# Below is generated by plot.py at 2017-10-12 10:10:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.03 Mbit/s
95th percentile per-packet one-way delay: 29.139 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 15.83 Mbit/s
95th percentile per-packet one-way delay: 28.020 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 15.53 Mbit/s
95th percentile per-packet one-way delay: 29.042 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 14.70 Mbit/s
95th percentile per-packet one-way delay: 32.448 ms
Loss rate: 0.67%
```

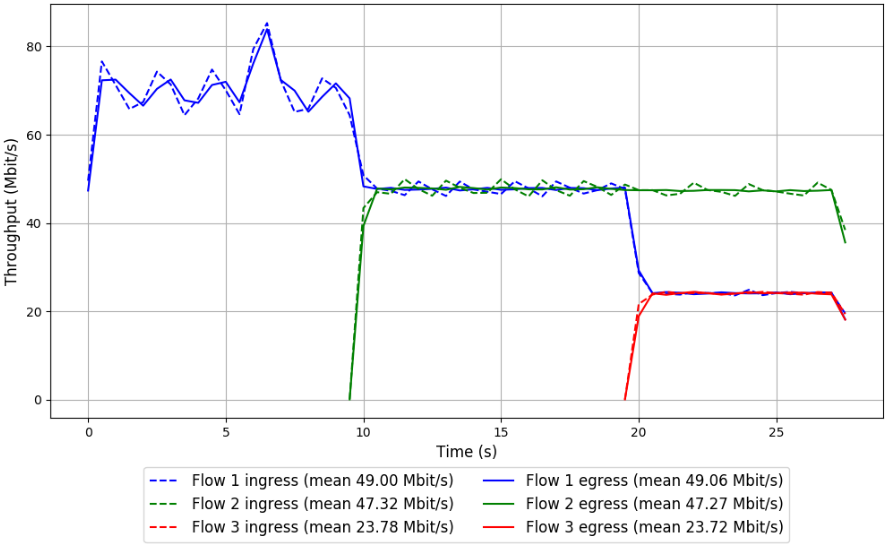
Run 10: Report of Sprout — Data Link

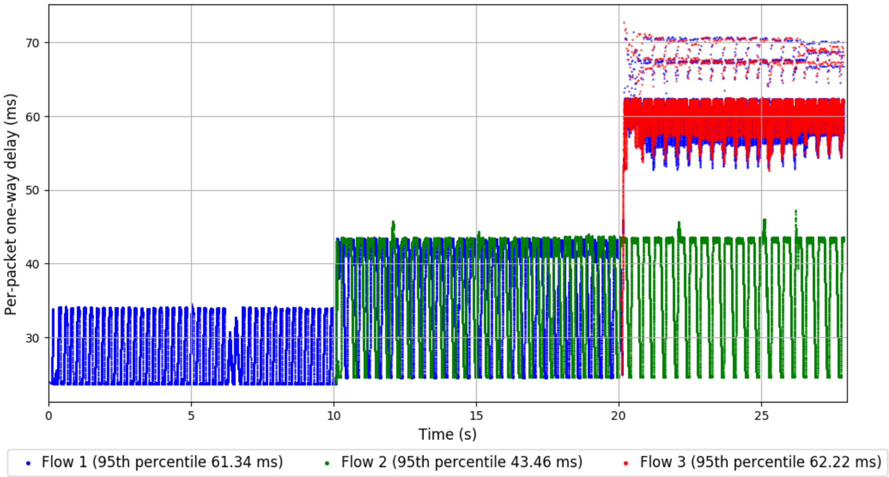




```
Run 1: Statistics of TaoVA-100x

Start at: 2017-10-12 03:51:14
End at: 2017-10-12 03:51:44
Local clock offset: -0.205 ms
Remote clock offset: -0.618 ms

# Below is generated by plot.py at 2017-10-12 10:12:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.16 Mbit/s
95th percentile per-packet one-way delay: 61.806 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 49.06 Mbit/s
95th percentile per-packet one-way delay: 61.335 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 47.27 Mbit/s
95th percentile per-packet one-way delay: 43.462 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 23.72 Mbit/s
95th percentile per-packet one-way delay: 62.215 ms
Loss rate: 1.16%
```

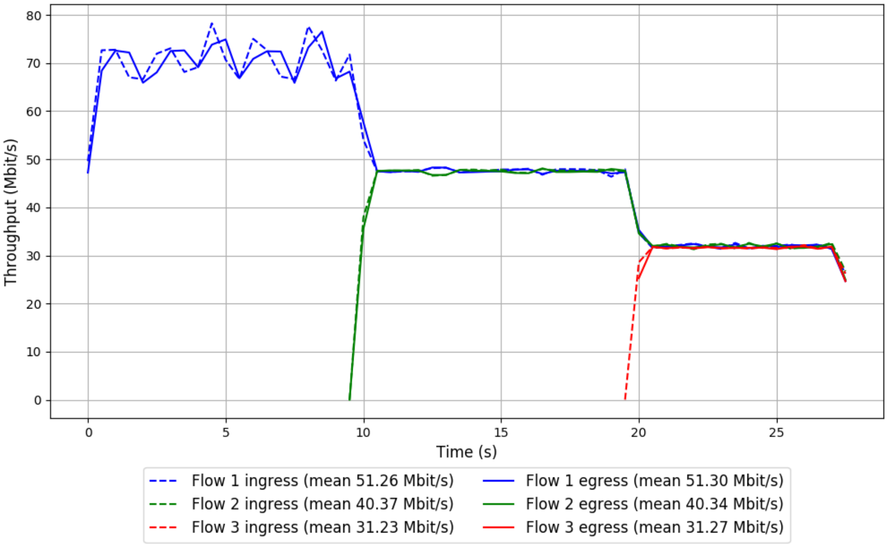
Run 1: Report of TaoVA-100x — Data Link

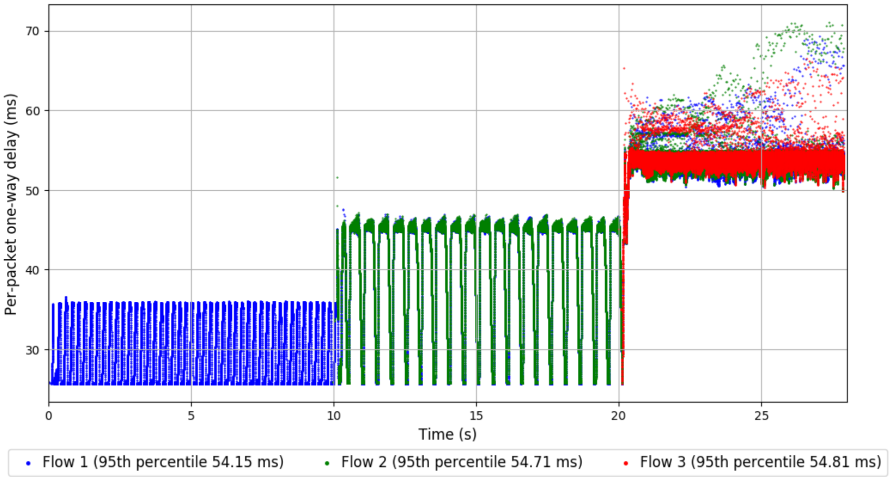




```
Run 2: Statistics of TaoVA-100x

Start at: 2017-10-12 04:10:18
End at: 2017-10-12 04:10:48
Local clock offset: -0.326 ms
Remote clock offset: -2.287 ms

# Below is generated by plot.py at 2017-10-12 10:12:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.06 Mbit/s
95th percentile per-packet one-way delay: 54.582 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 51.30 Mbit/s
95th percentile per-packet one-way delay: 54.145 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 40.34 Mbit/s
95th percentile per-packet one-way delay: 54.709 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 31.27 Mbit/s
95th percentile per-packet one-way delay: 54.806 ms
Loss rate: 1.03%
```

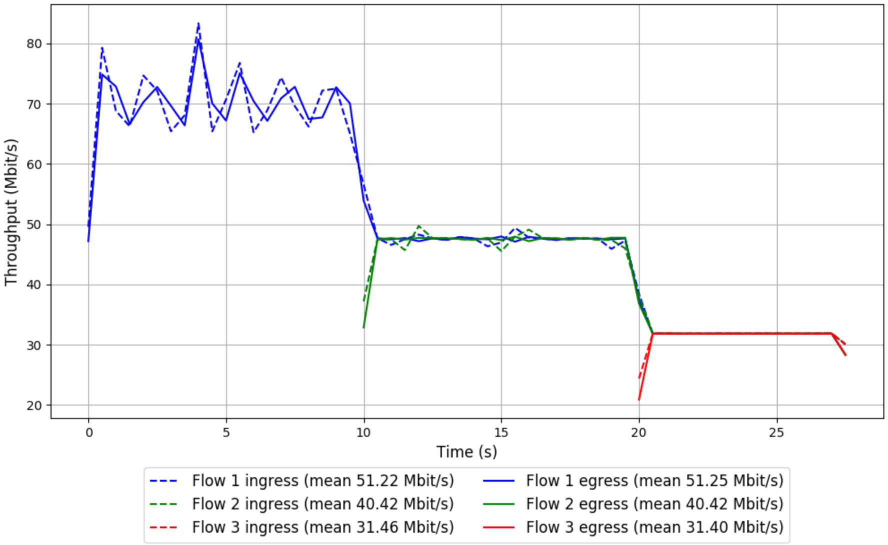
Run 2: Report of TaoVA-100x — Data Link

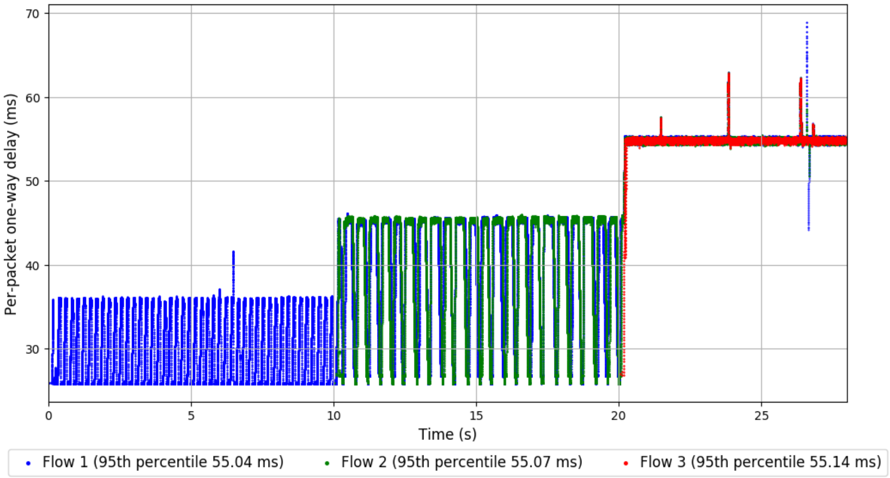




```
Run 3: Statistics of TaoVA-100x

Start at: 2017-10-12 04:29:23
End at: 2017-10-12 04:29:53
Local clock offset: -0.221 ms
Remote clock offset: -1.745 ms

# Below is generated by plot.py at 2017-10-12 10:12:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.05 Mbit/s
95th percentile per-packet one-way delay: 55.074 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 51.25 Mbit/s
95th percentile per-packet one-way delay: 55.043 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 40.42 Mbit/s
95th percentile per-packet one-way delay: 55.071 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 31.40 Mbit/s
95th percentile per-packet one-way delay: 55.140 ms
Loss rate: 1.05%
```

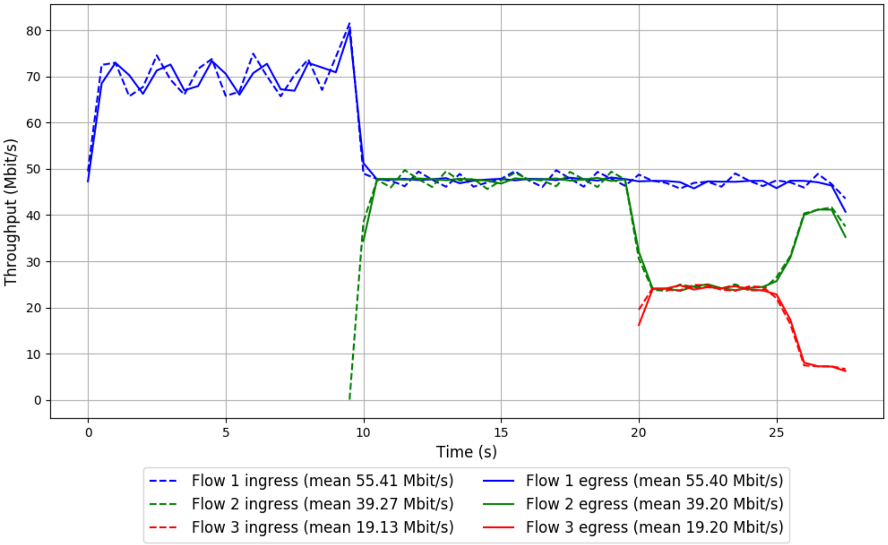
Run 3: Report of TaoVA-100x — Data Link

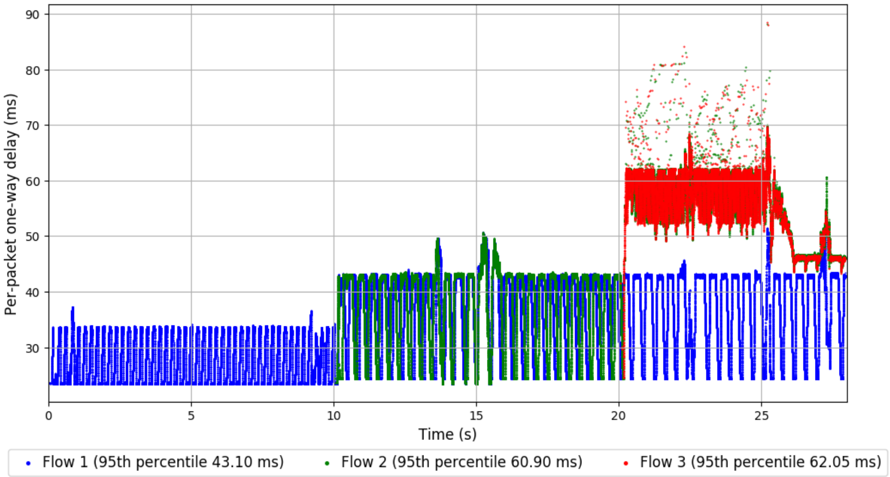




```
Run 4: Statistics of TaoVA-100x

Start at: 2017-10-12 04:48:29
End at: 2017-10-12 04:48:59
Local clock offset: -0.39 ms
Remote clock offset: 1.112 ms

# Below is generated by plot.py at 2017-10-12 10:12:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.97 Mbit/s
95th percentile per-packet one-way delay: 59.264 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 55.40 Mbit/s
95th percentile per-packet one-way delay: 43.101 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 39.20 Mbit/s
95th percentile per-packet one-way delay: 60.904 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 19.20 Mbit/s
95th percentile per-packet one-way delay: 62.054 ms
Loss rate: 0.57%
```

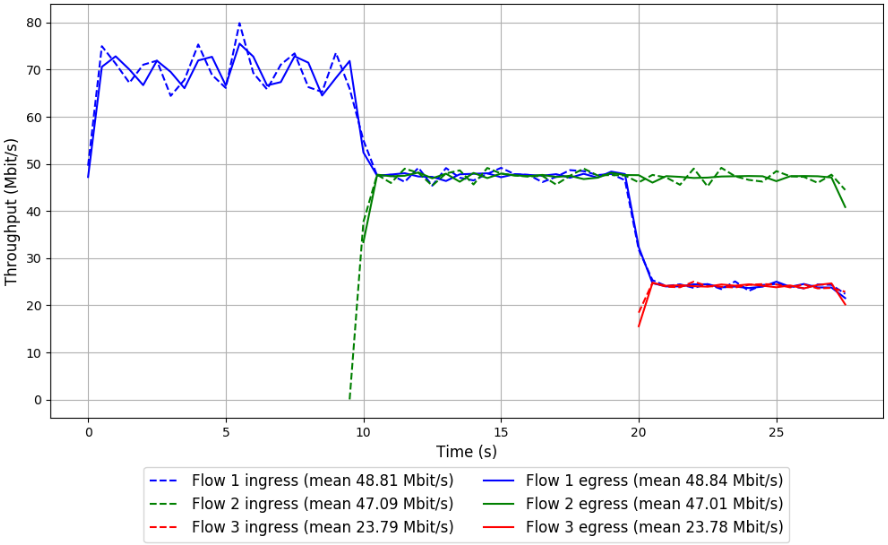
Run 4: Report of TaoVA-100x — Data Link

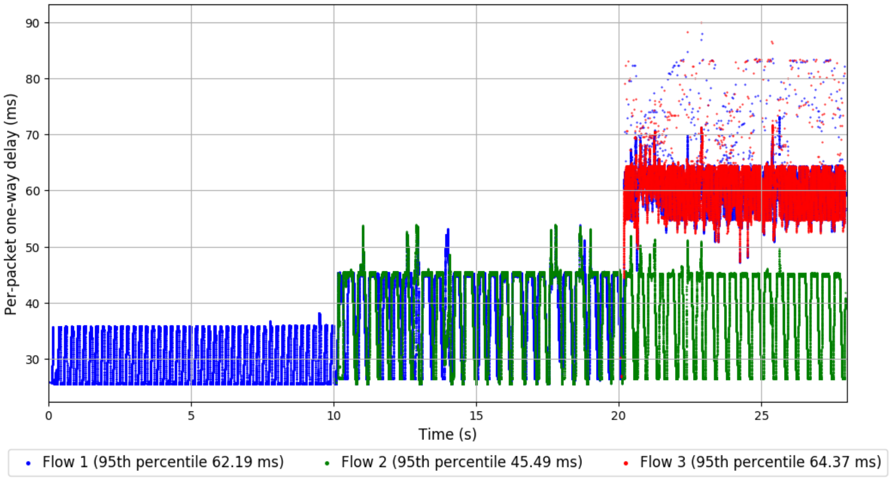




```
Run 5: Statistics of TaoVA-100x

Start at: 2017-10-12 05:07:42
End at: 2017-10-12 05:08:12
Local clock offset: -0.588 ms
Remote clock offset: -0.851 ms

# Below is generated by plot.py at 2017-10-12 10:12:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.72 Mbit/s
95th percentile per-packet one-way delay: 62.601 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 48.84 Mbit/s
95th percentile per-packet one-way delay: 62.186 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 47.01 Mbit/s
95th percentile per-packet one-way delay: 45.493 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 23.78 Mbit/s
95th percentile per-packet one-way delay: 64.367 ms
Loss rate: 1.25%
```

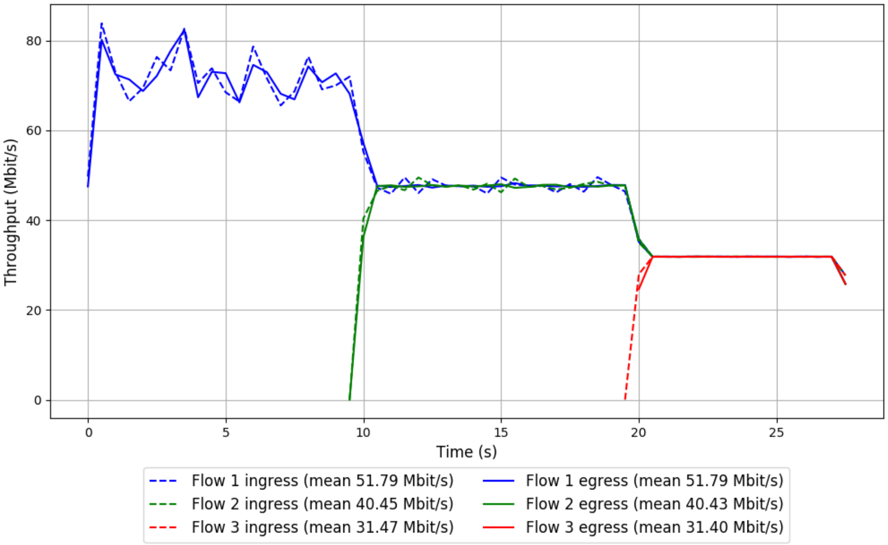
Run 5: Report of TaoVA-100x — Data Link

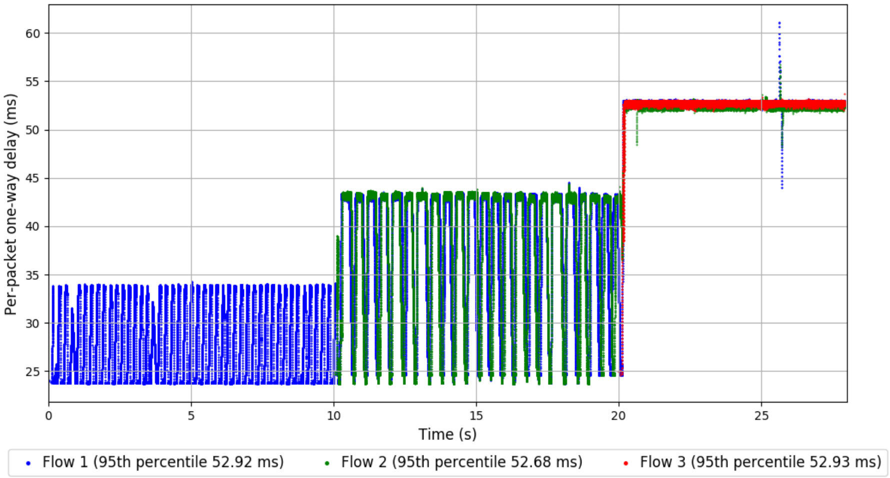




```
Run 6: Statistics of TaoVA-100x

Start at: 2017-10-12 05:27:05
End at: 2017-10-12 05:27:35
Local clock offset: -0.405 ms
Remote clock offset: 1.152 ms

# Below is generated by plot.py at 2017-10-12 10:12:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.66 Mbit/s
95th percentile per-packet one-way delay: 52.896 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 51.79 Mbit/s
95th percentile per-packet one-way delay: 52.919 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 40.43 Mbit/s
95th percentile per-packet one-way delay: 52.681 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 31.40 Mbit/s
95th percentile per-packet one-way delay: 52.928 ms
Loss rate: 1.05%
```

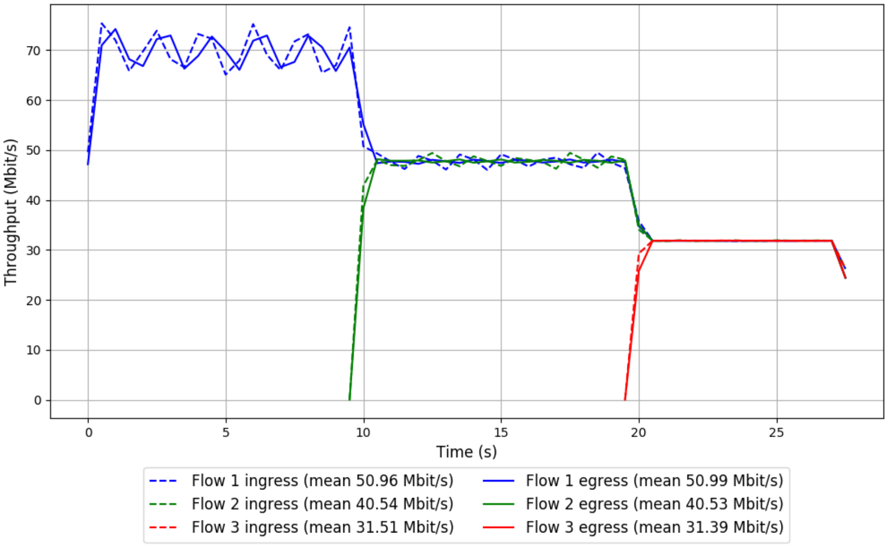
Run 6: Report of TaoVA-100x — Data Link

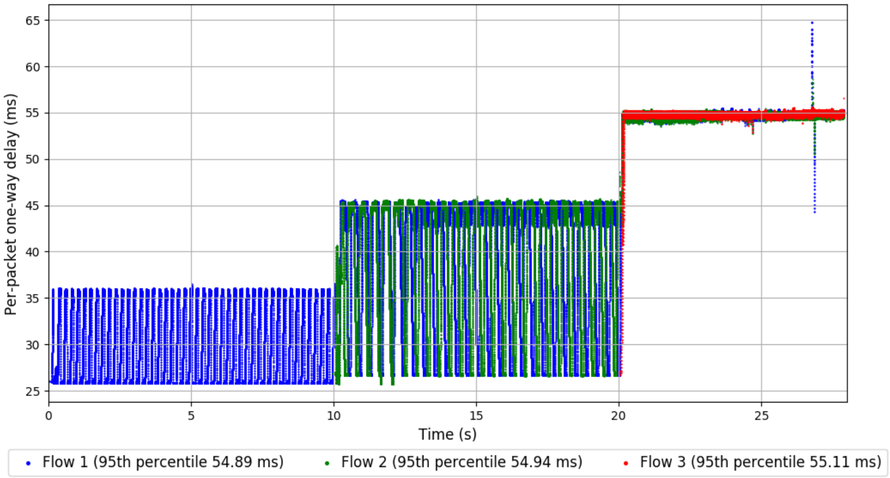




```
Run 7: Statistics of TaoVA-100x

Start at: 2017-10-12 05:46:10
End at: 2017-10-12 05:46:40
Local clock offset: -0.018 ms
Remote clock offset: -1.35 ms

# Below is generated by plot.py at 2017-10-12 10:12:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.95 Mbit/s
95th percentile per-packet one-way delay: 54.987 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 50.99 Mbit/s
95th percentile per-packet one-way delay: 54.888 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 40.53 Mbit/s
95th percentile per-packet one-way delay: 54.937 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 31.39 Mbit/s
95th percentile per-packet one-way delay: 55.113 ms
Loss rate: 1.05%
```

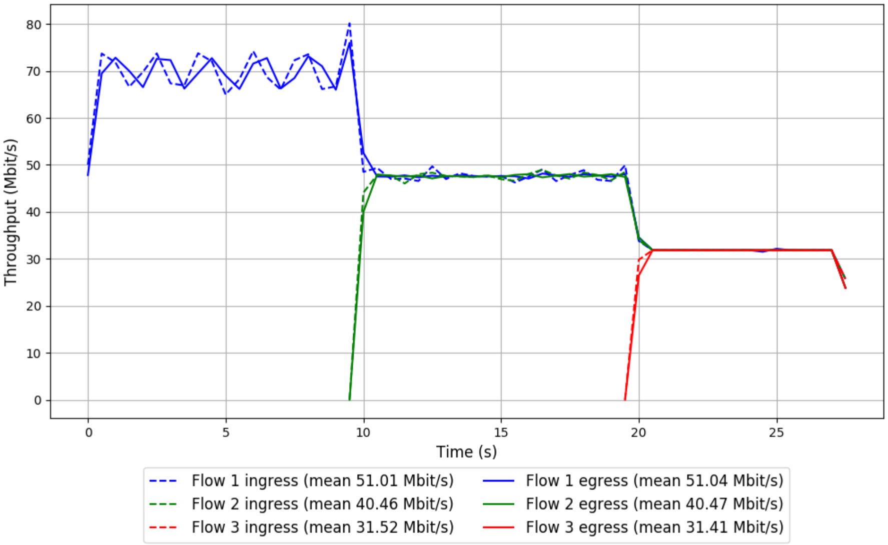
Run 7: Report of TaoVA-100x — Data Link

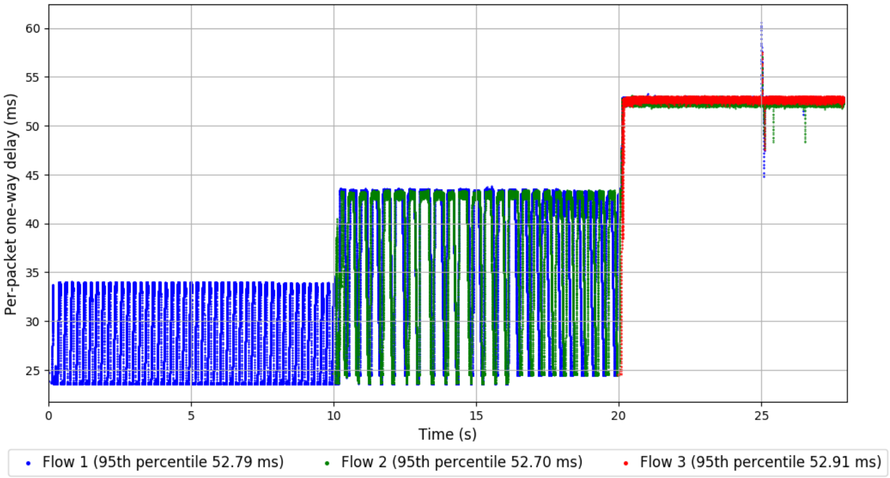




```
Run 8: Statistics of TaoVA-100x

Start at: 2017-10-12 06:05:19
End at: 2017-10-12 06:05:49
Local clock offset: 0.054 ms
Remote clock offset: -0.255 ms

# Below is generated by plot.py at 2017-10-12 10:12:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.97 Mbit/s
95th percentile per-packet one-way delay: 52.803 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 51.04 Mbit/s
95th percentile per-packet one-way delay: 52.788 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 40.47 Mbit/s
95th percentile per-packet one-way delay: 52.702 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 31.41 Mbit/s
95th percentile per-packet one-way delay: 52.911 ms
Loss rate: 1.05%
```

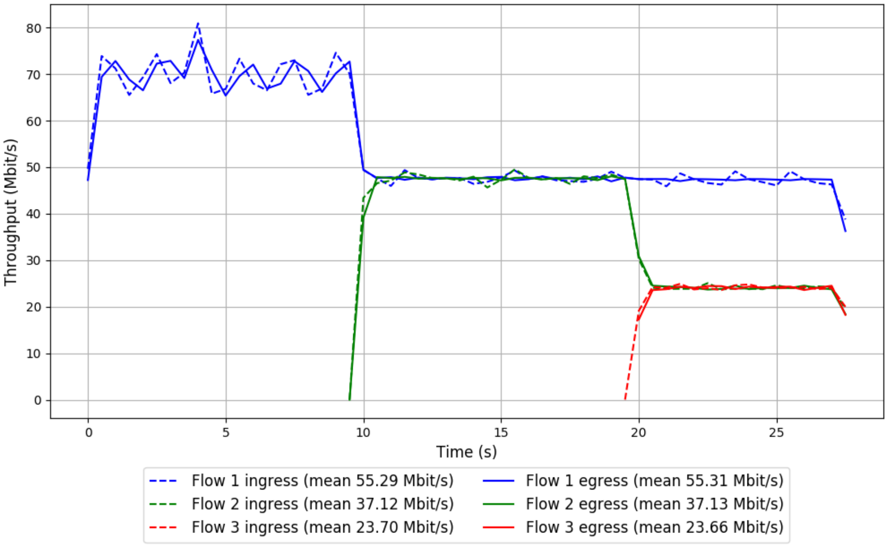
Run 8: Report of TaoVA-100x — Data Link

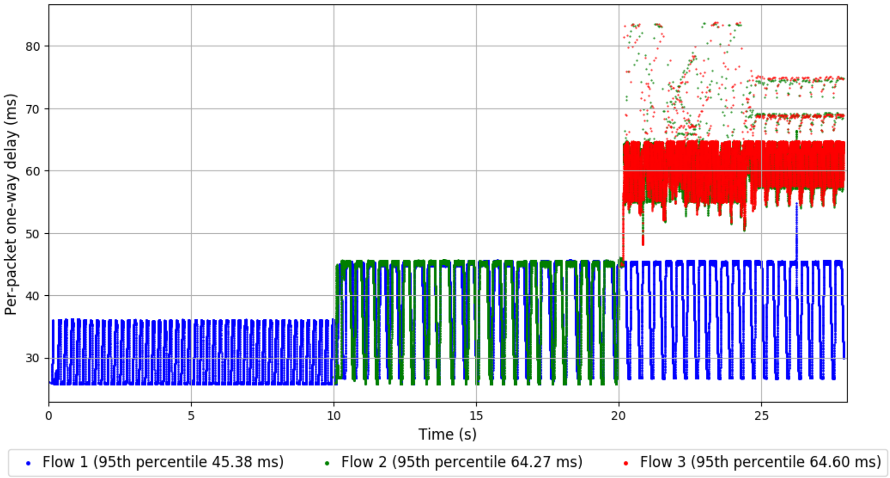




```
Run 9: Statistics of TaoVA-100x

Start at: 2017-10-12 06:24:26
End at: 2017-10-12 06:24:56
Local clock offset: 0.109 ms
Remote clock offset: -3.358 ms

# Below is generated by plot.py at 2017-10-12 10:14:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.87 Mbit/s
95th percentile per-packet one-way delay: 63.518 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 55.31 Mbit/s
95th percentile per-packet one-way delay: 45.375 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 37.13 Mbit/s
95th percentile per-packet one-way delay: 64.272 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 23.66 Mbit/s
95th percentile per-packet one-way delay: 64.602 ms
Loss rate: 1.17%
```

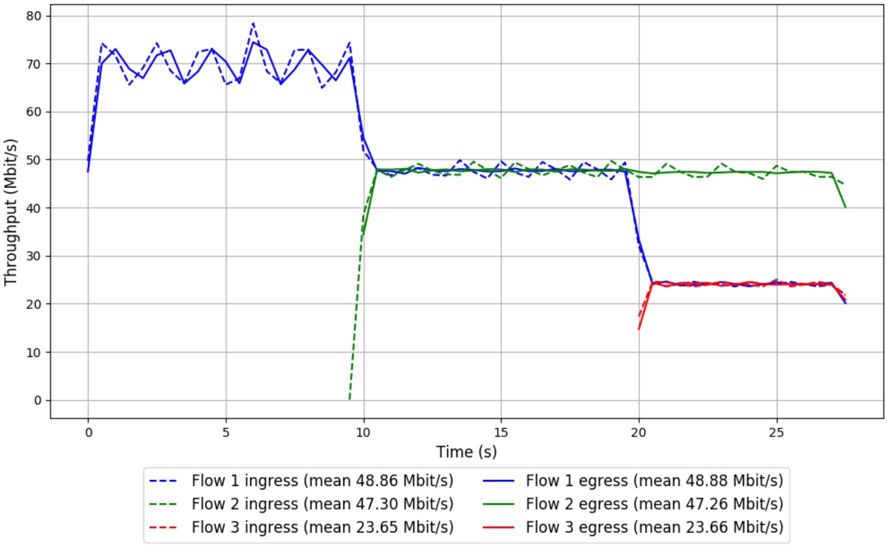
Run 9: Report of TaoVA-100x — Data Link

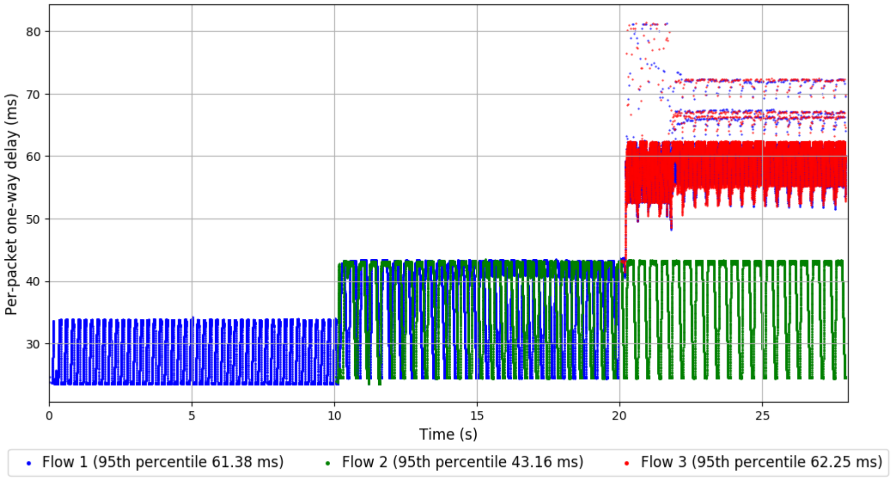




```
Run 10: Statistics of TaoVA-100x

Start at: 2017-10-12 06:43:30
End at: 2017-10-12 06:44:00
Local clock offset: -0.02 ms
Remote clock offset: -1.813 ms

# Below is generated by plot.py at 2017-10-12 10:14:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.89 Mbit/s
95th percentile per-packet one-way delay: 61.743 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 48.88 Mbit/s
95th percentile per-packet one-way delay: 61.378 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 47.26 Mbit/s
95th percentile per-packet one-way delay: 43.161 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 23.66 Mbit/s
95th percentile per-packet one-way delay: 62.248 ms
Loss rate: 1.12%
```

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





```
Run 1: Statistics of TCP Vegas

Start at: 2017-10-12 03:48:31
End at: 2017-10-12 03:49:01
Local clock offset: -0.186 ms
Remote clock offset: -2.77 ms
```

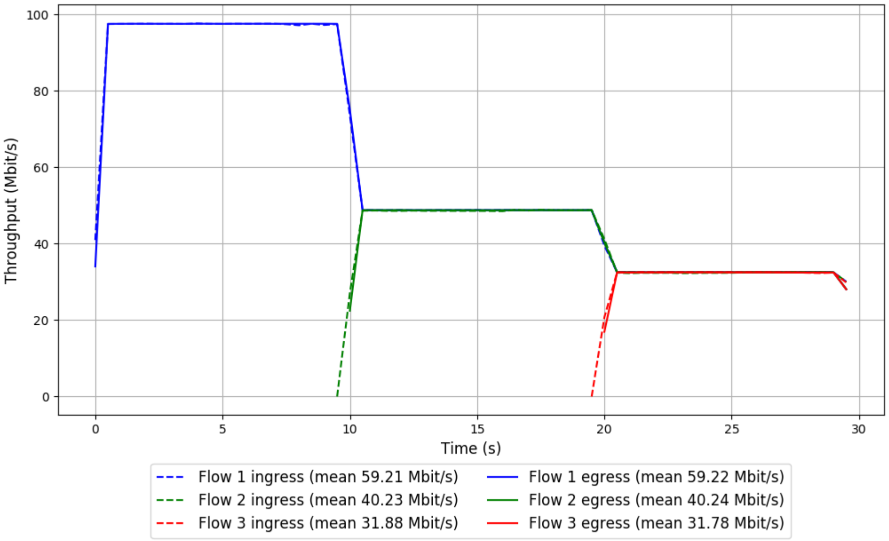
Run 1: Report of TCP Vegas — Data Link

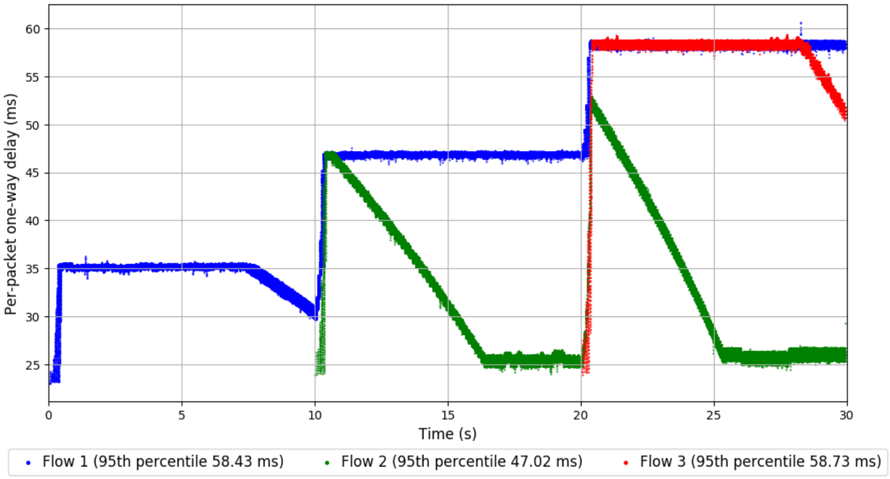
Figure is missing

Figure is missing

```
Run 2: Statistics of TCP Vegas

Start at: 2017-10-12 04:07:35
End at: 2017-10-12 04:08:05
Local clock offset: -0.332 ms
Remote clock offset: 0.214 ms

# Below is generated by plot.py at 2017-10-12 10:14:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.53 Mbit/s
95th percentile per-packet one-way delay: 58.532 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 59.22 Mbit/s
95th percentile per-packet one-way delay: 58.433 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 40.24 Mbit/s
95th percentile per-packet one-way delay: 47.020 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 31.78 Mbit/s
95th percentile per-packet one-way delay: 58.728 ms
Loss rate: 0.83%
```

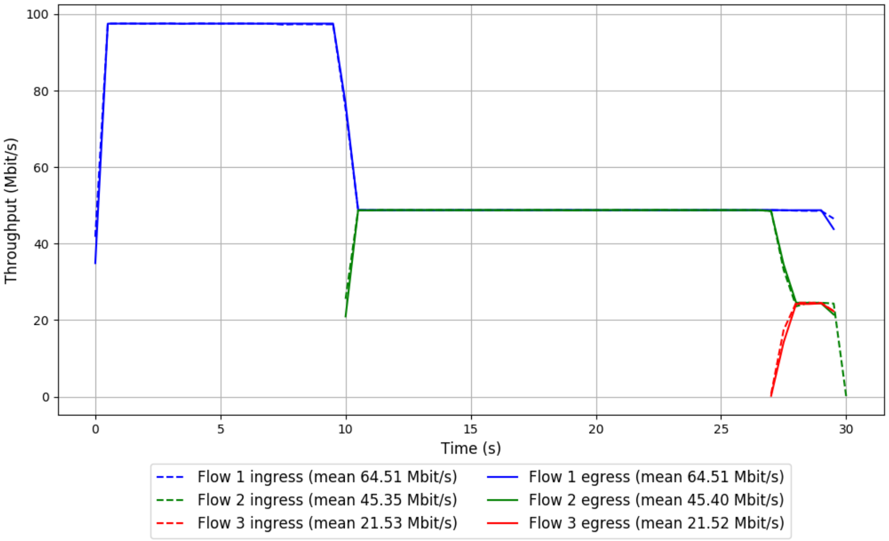
Run 2: Report of TCP Vegas — Data Link

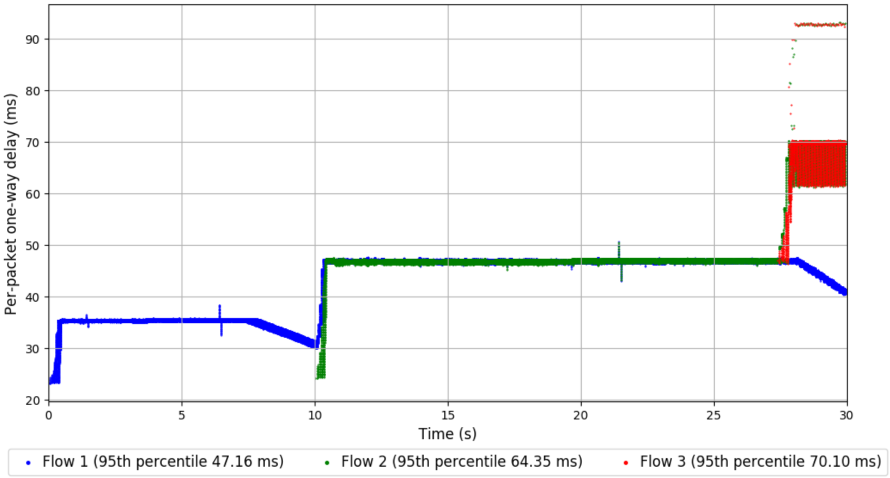




```
Run 3: Statistics of TCP Vegas

Start at: 2017-10-12 04:26:42
End at: 2017-10-12 04:27:12
Local clock offset: -0.202 ms
Remote clock offset: 0.765 ms

# Below is generated by plot.py at 2017-10-12 10:14:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 47.247 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 64.51 Mbit/s
95th percentile per-packet one-way delay: 47.157 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 45.40 Mbit/s
95th percentile per-packet one-way delay: 64.351 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 21.52 Mbit/s
95th percentile per-packet one-way delay: 70.104 ms
Loss rate: 3.95%
```

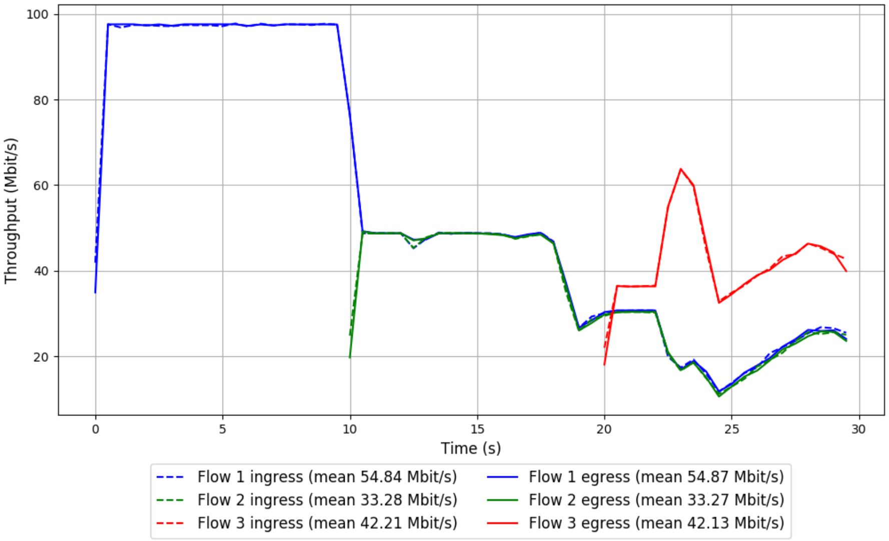
Run 3: Report of TCP Vegas — Data Link

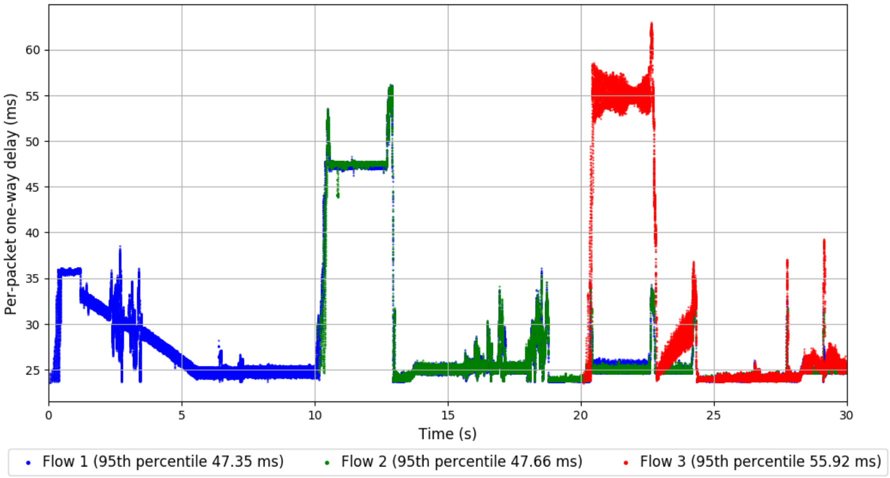




```
Run 4: Statistics of TCP Vegas

Start at: 2017-10-12 04:45:43
End at: 2017-10-12 04:46:13
Local clock offset: -0.223 ms
Remote clock offset: 0.919 ms

# Below is generated by plot.py at 2017-10-12 10:14:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.95 Mbit/s
95th percentile per-packet one-way delay: 47.660 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 54.87 Mbit/s
95th percentile per-packet one-way delay: 47.352 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 33.27 Mbit/s
95th percentile per-packet one-way delay: 47.655 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 42.13 Mbit/s
95th percentile per-packet one-way delay: 55.916 ms
Loss rate: 0.72%
```

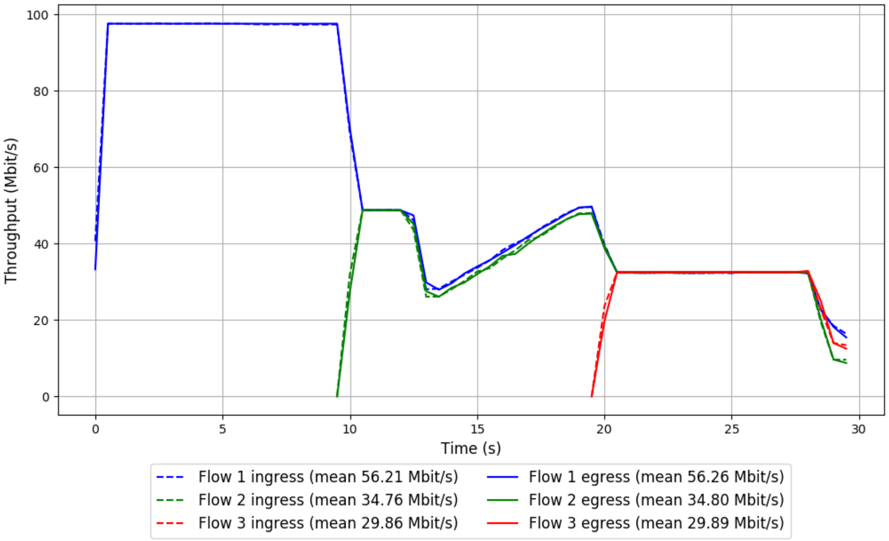
Run 4: Report of TCP Vegas — Data Link

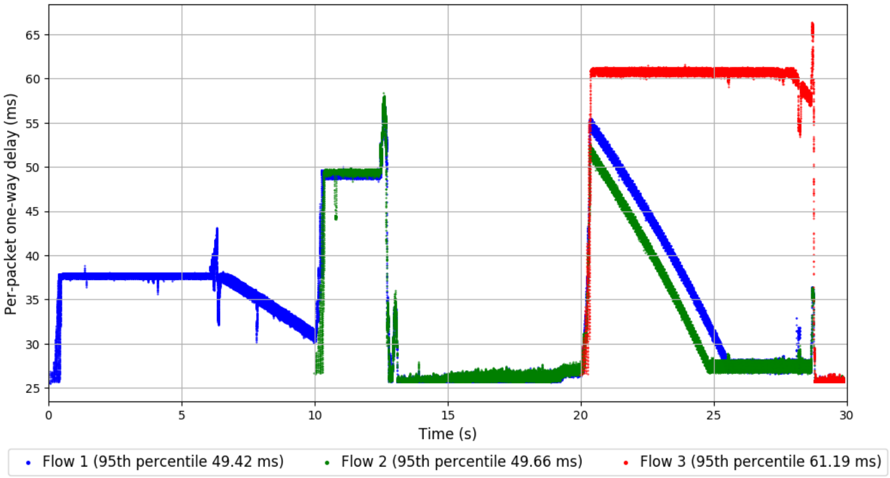




```
Run 5: Statistics of TCP Vegas

Start at: 2017-10-12 05:04:58
End at: 2017-10-12 05:05:28
Local clock offset: -0.501 ms
Remote clock offset: -0.813 ms

# Below is generated by plot.py at 2017-10-12 10:14:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.38 Mbit/s
95th percentile per-packet one-way delay: 60.830 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 56.26 Mbit/s
95th percentile per-packet one-way delay: 49.425 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 34.80 Mbit/s
95th percentile per-packet one-way delay: 49.656 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 29.89 Mbit/s
95th percentile per-packet one-way delay: 61.186 ms
Loss rate: 0.43%
```

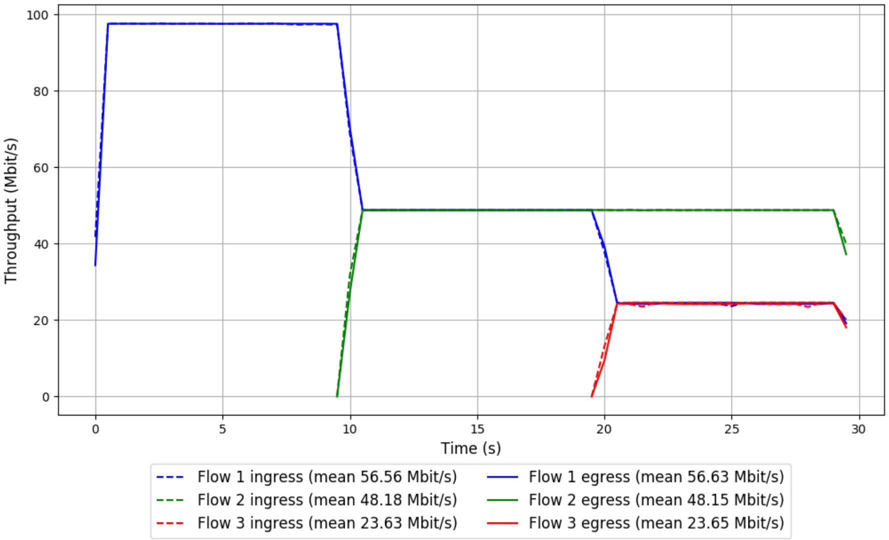
Run 5: Report of TCP Vegas — Data Link

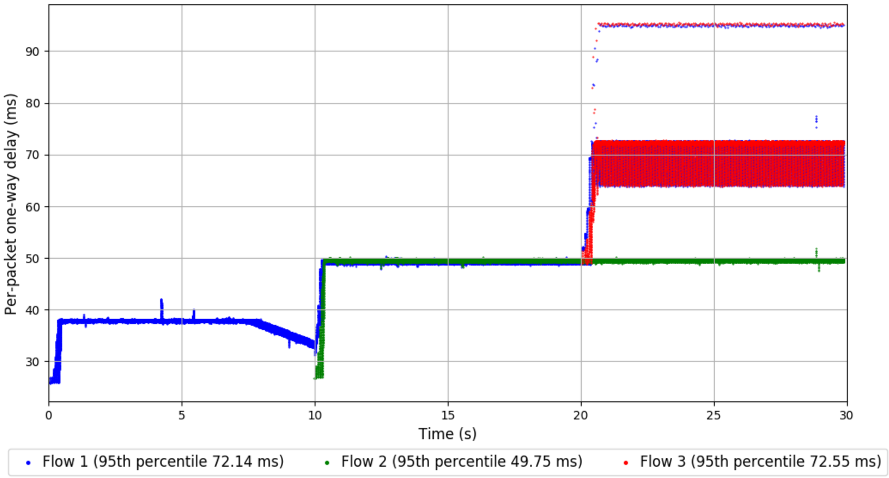




```
Run 6: Statistics of TCP Vegas

Start at: 2017-10-12 05:24:20
End at: 2017-10-12 05:24:50
Local clock offset: -0.498 ms
Remote clock offset: -0.998 ms

# Below is generated by plot.py at 2017-10-12 10:14:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 72.222 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 56.63 Mbit/s
95th percentile per-packet one-way delay: 72.140 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 48.15 Mbit/s
95th percentile per-packet one-way delay: 49.746 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 23.65 Mbit/s
95th percentile per-packet one-way delay: 72.550 ms
Loss rate: 0.96%
```

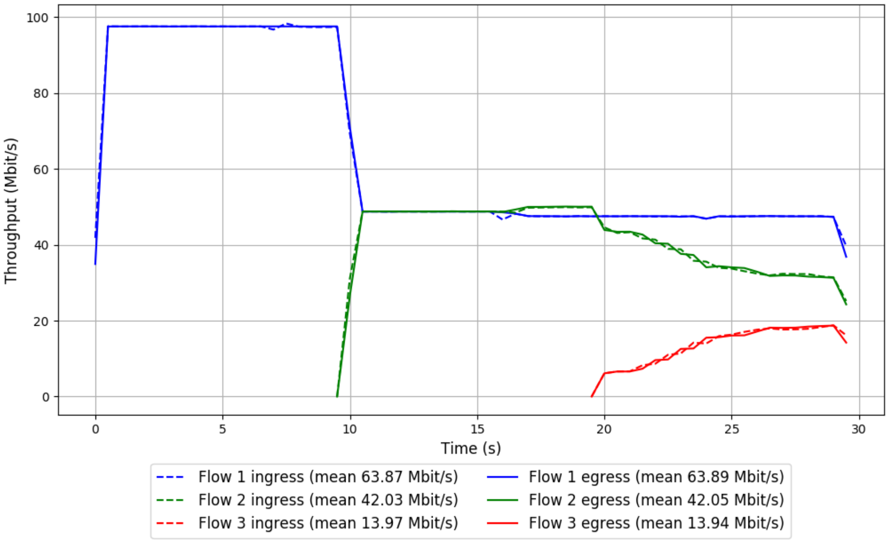
Run 6: Report of TCP Vegas — Data Link

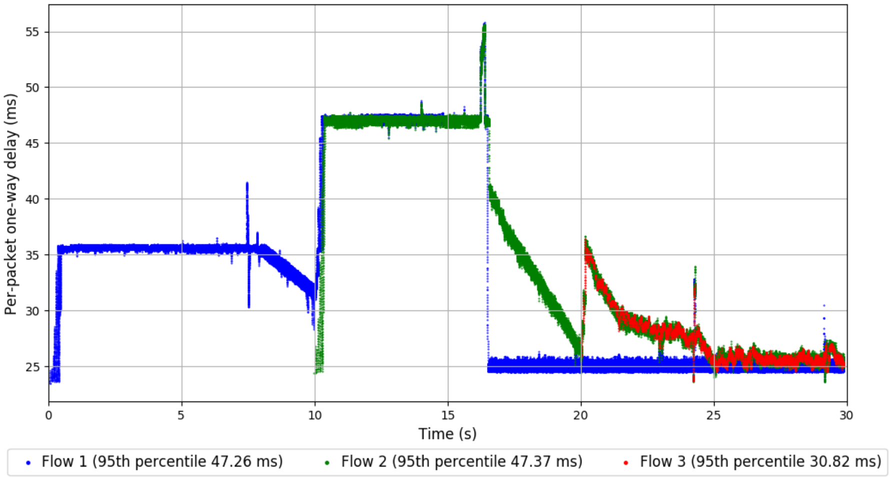




```
Run 7: Statistics of TCP Vegas

Start at: 2017-10-12 05:43:26
End at: 2017-10-12 05:43:56
Local clock offset: -0.037 ms
Remote clock offset: 0.975 ms

# Below is generated by plot.py at 2017-10-12 10:14:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.53 Mbit/s
95th percentile per-packet one-way delay: 47.308 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 63.89 Mbit/s
95th percentile per-packet one-way delay: 47.258 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 42.05 Mbit/s
95th percentile per-packet one-way delay: 47.372 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 13.94 Mbit/s
95th percentile per-packet one-way delay: 30.818 ms
Loss rate: 0.73%
```

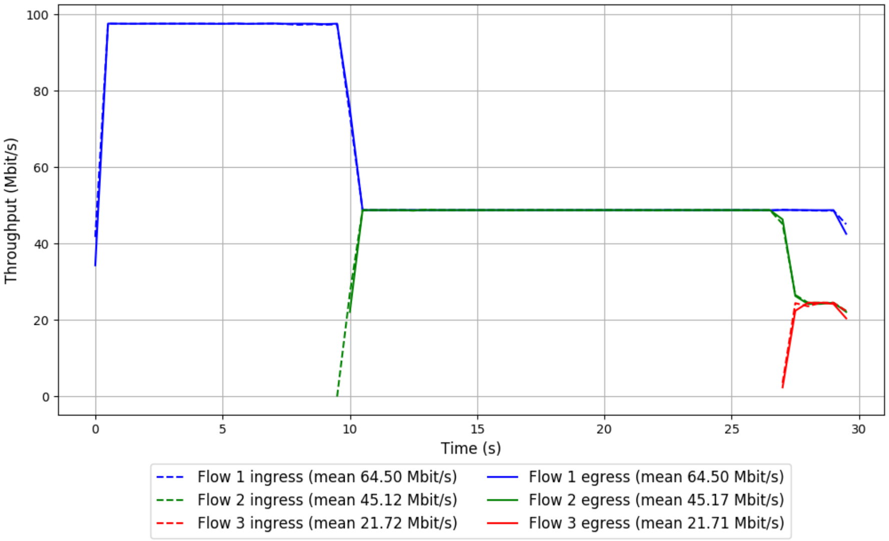
Run 7: Report of TCP Vegas — Data Link

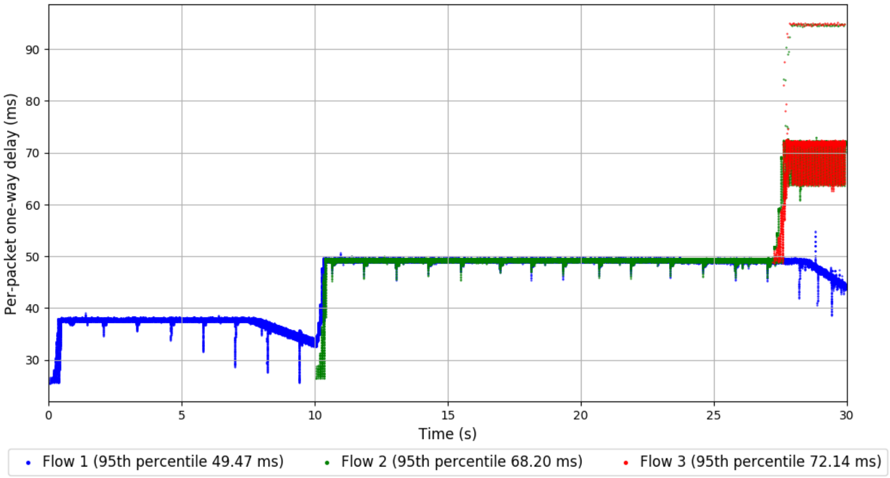




```
Run 8: Statistics of TCP Vegas

Start at: 2017-10-12 06:02:33
End at: 2017-10-12 06:03:03
Local clock offset: -0.057 ms
Remote clock offset: -2.193 ms

# Below is generated by plot.py at 2017-10-12 10:15:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 49.556 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 64.50 Mbit/s
95th percentile per-packet one-way delay: 49.470 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 45.17 Mbit/s
95th percentile per-packet one-way delay: 68.202 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 21.71 Mbit/s
95th percentile per-packet one-way delay: 72.141 ms
Loss rate: 3.67%
```

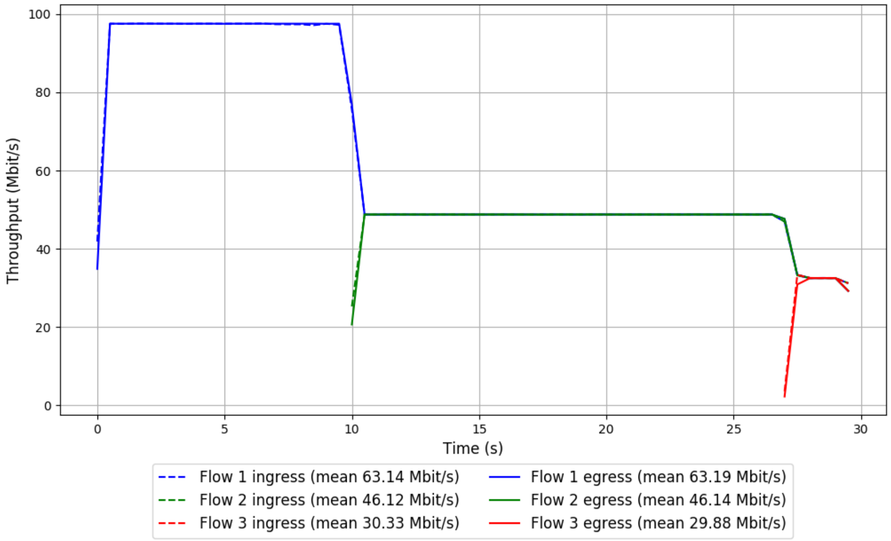
Run 8: Report of TCP Vegas — Data Link

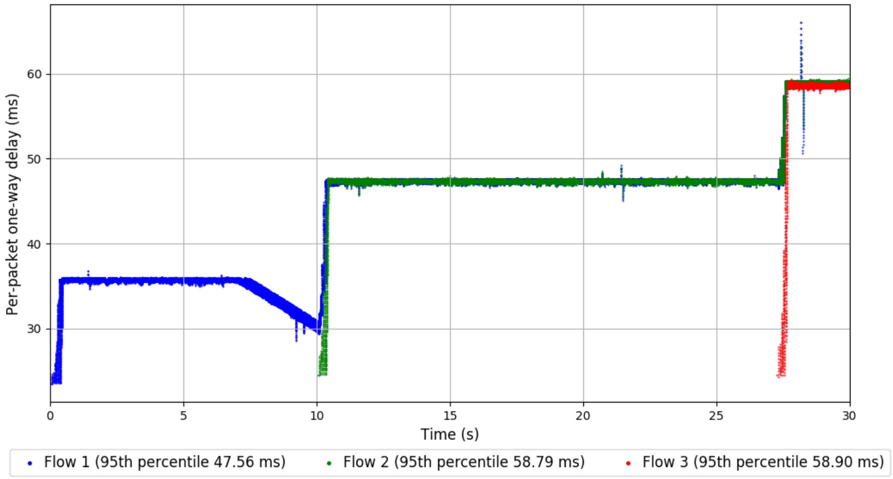




```
Run 9: Statistics of TCP Vegas

Start at: 2017-10-12 06:21:42
End at: 2017-10-12 06:22:12
Local clock offset: 0.099 ms
Remote clock offset: -0.998 ms

# Below is generated by plot.py at 2017-10-12 10:15:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 58.687 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 63.19 Mbit/s
95th percentile per-packet one-way delay: 47.562 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 46.14 Mbit/s
95th percentile per-packet one-way delay: 58.791 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 29.88 Mbit/s
95th percentile per-packet one-way delay: 58.902 ms
Loss rate: 3.46%
```

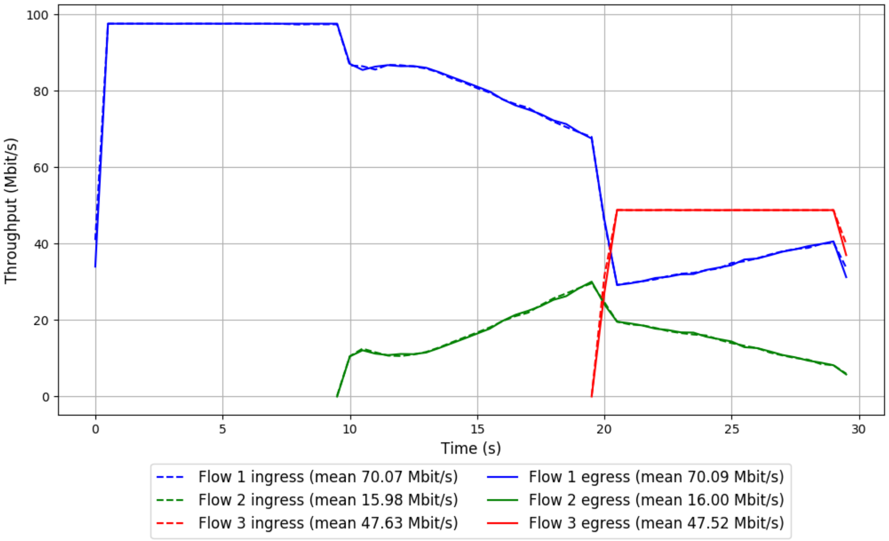
Run 9: Report of TCP Vegas — Data Link

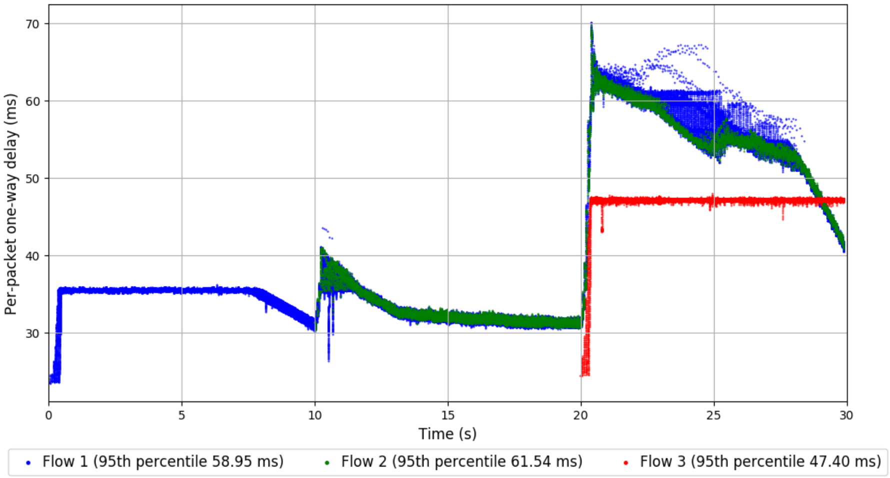




```
Run 10: Statistics of TCP Vegas

Start at: 2017-10-12 06:40:46
End at: 2017-10-12 06:41:16
Local clock offset: -0.001 ms
Remote clock offset: -1.717 ms

# Below is generated by plot.py at 2017-10-12 10:15:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.54 Mbit/s
95th percentile per-packet one-way delay: 59.294 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 70.09 Mbit/s
95th percentile per-packet one-way delay: 58.953 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 16.00 Mbit/s
95th percentile per-packet one-way delay: 61.537 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 47.52 Mbit/s
95th percentile per-packet one-way delay: 47.396 ms
Loss rate: 0.79%
```

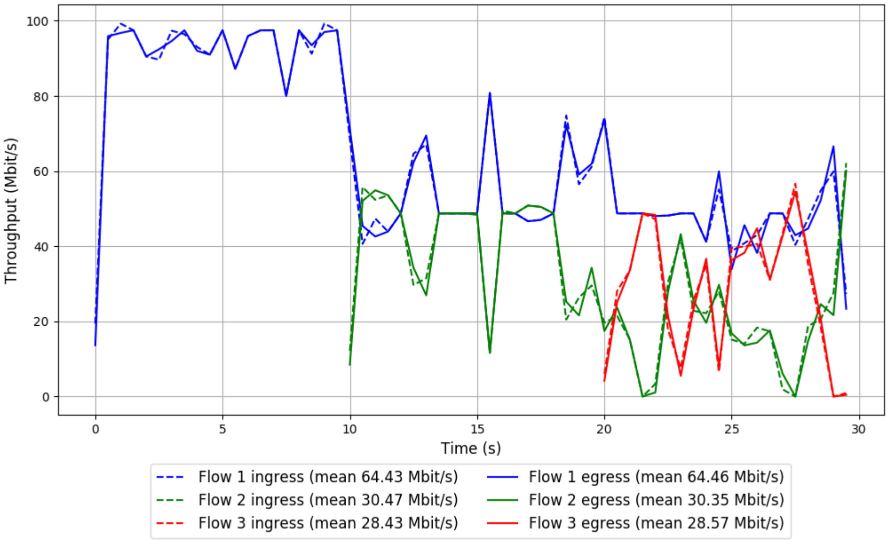
Run 10: Report of TCP Vegas — Data Link

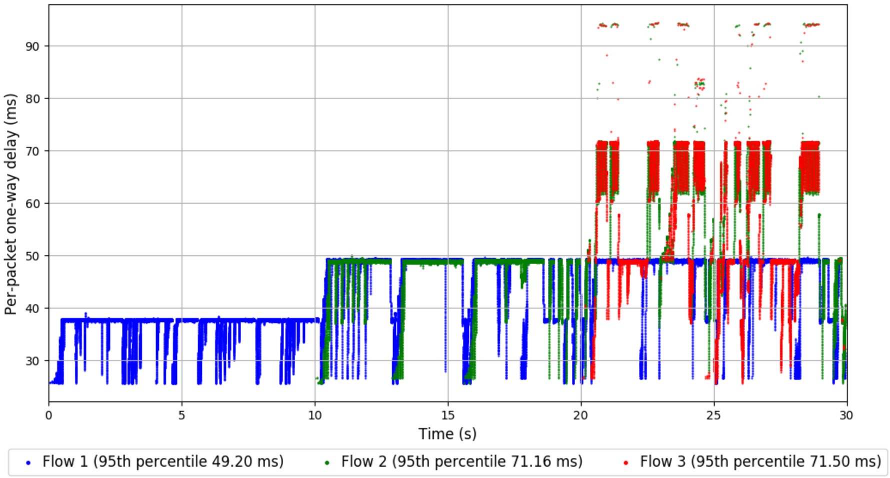




```
Run 1: Statistics of Verus

Start at: 2017-10-12 03:52:39
End at: 2017-10-12 03:53:09
Local clock offset: -0.303 ms
Remote clock offset: -2.548 ms

# Below is generated by plot.py at 2017-10-12 10:15:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.03 Mbit/s
95th percentile per-packet one-way delay: 65.190 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 64.46 Mbit/s
95th percentile per-packet one-way delay: 49.195 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 30.35 Mbit/s
95th percentile per-packet one-way delay: 71.159 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 28.57 Mbit/s
95th percentile per-packet one-way delay: 71.495 ms
Loss rate: 0.08%
```

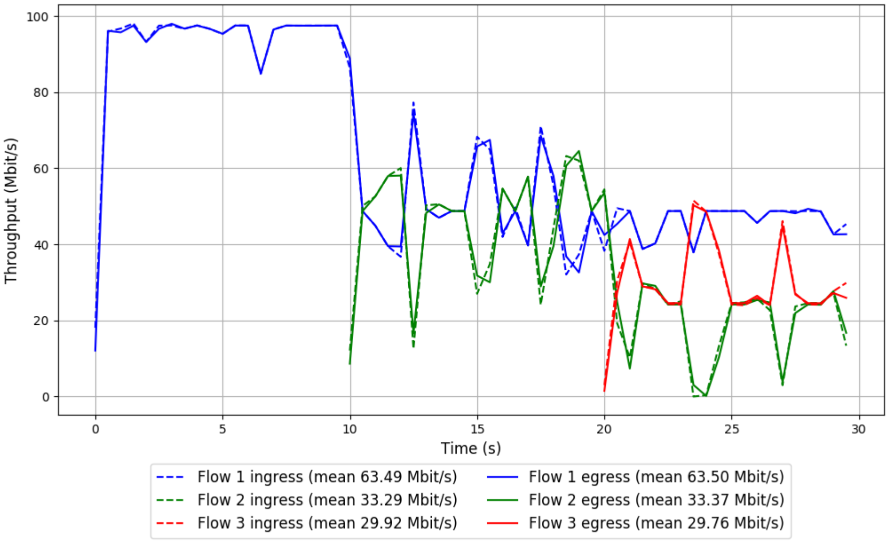
Run 1: Report of Verus — Data Link

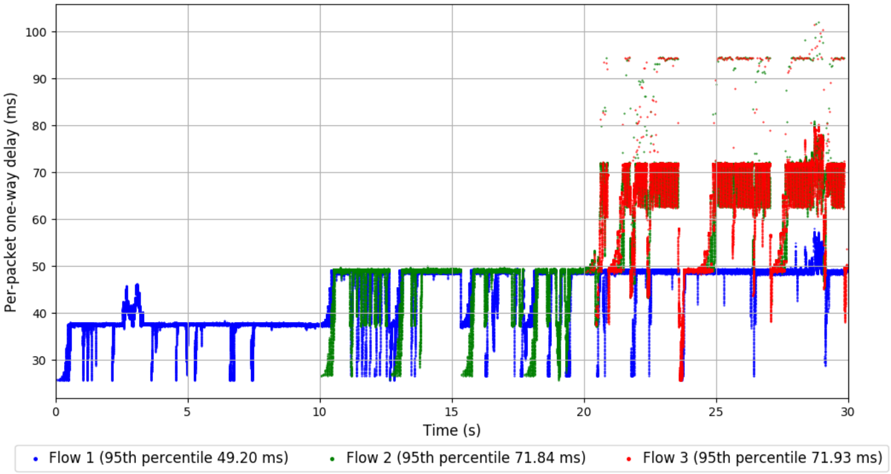




```
Run 2: Statistics of Verus

Start at: 2017-10-12 04:11:43
End at: 2017-10-12 04:12:13
Local clock offset: -0.255 ms
Remote clock offset: -2.211 ms

# Below is generated by plot.py at 2017-10-12 10:15:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.50 Mbit/s
95th percentile per-packet one-way delay: 71.511 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 63.50 Mbit/s
95th percentile per-packet one-way delay: 49.195 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 33.37 Mbit/s
95th percentile per-packet one-way delay: 71.844 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 29.76 Mbit/s
95th percentile per-packet one-way delay: 71.929 ms
Loss rate: 1.26%
```

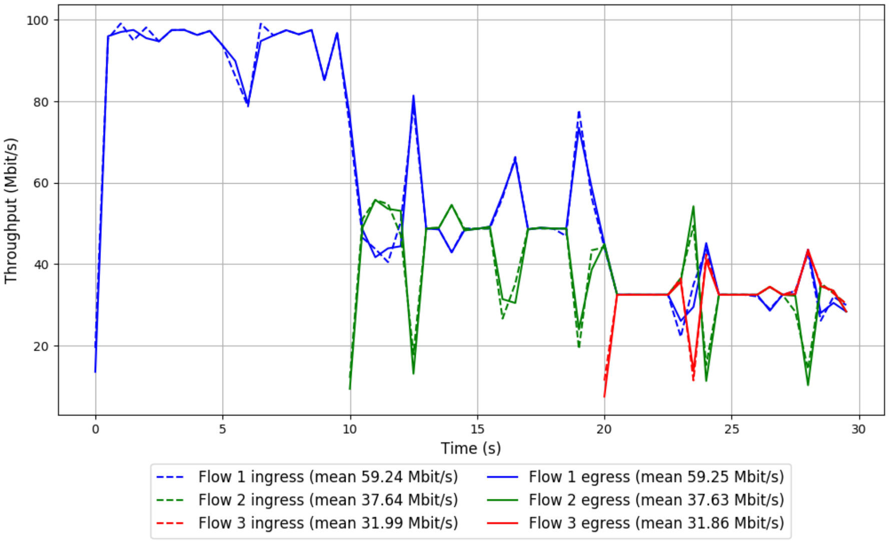
Run 2: Report of Verus — Data Link

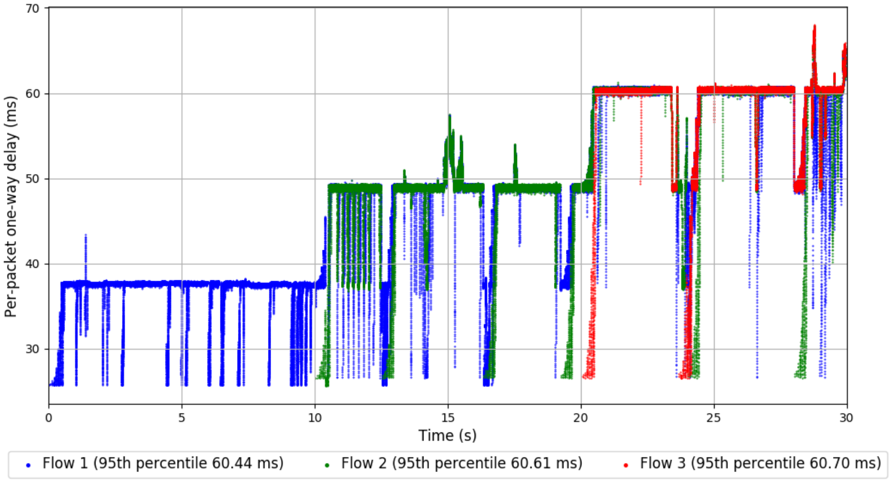




```
Run 3: Statistics of Verus

Start at: 2017-10-12 04:30:47
End at: 2017-10-12 04:31:17
Local clock offset: -0.301 ms
Remote clock offset: -1.619 ms

# Below is generated by plot.py at 2017-10-12 10:15:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.79 Mbit/s
95th percentile per-packet one-way delay: 60.584 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 59.25 Mbit/s
95th percentile per-packet one-way delay: 60.443 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 37.63 Mbit/s
95th percentile per-packet one-way delay: 60.606 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 31.86 Mbit/s
95th percentile per-packet one-way delay: 60.696 ms
Loss rate: 0.92%
```

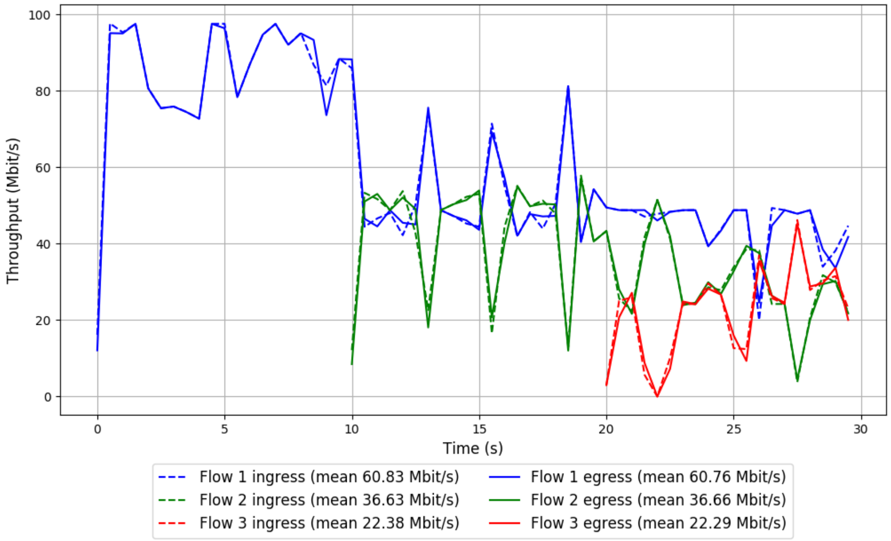
Run 3: Report of Verus — Data Link

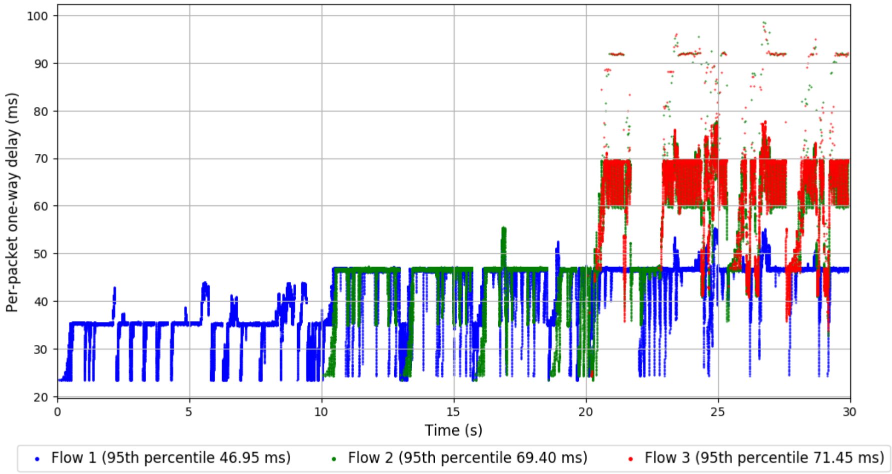




```
Run 4: Statistics of Verus

Start at: 2017-10-12 04:49:54
End at: 2017-10-12 04:50:24
Local clock offset: -0.425 ms
Remote clock offset: 1.184 ms

# Below is generated by plot.py at 2017-10-12 10:15:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.49 Mbit/s
95th percentile per-packet one-way delay: 69.026 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 60.76 Mbit/s
95th percentile per-packet one-way delay: 46.948 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 36.66 Mbit/s
95th percentile per-packet one-way delay: 69.396 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 22.29 Mbit/s
95th percentile per-packet one-way delay: 71.449 ms
Loss rate: 1.25%
```

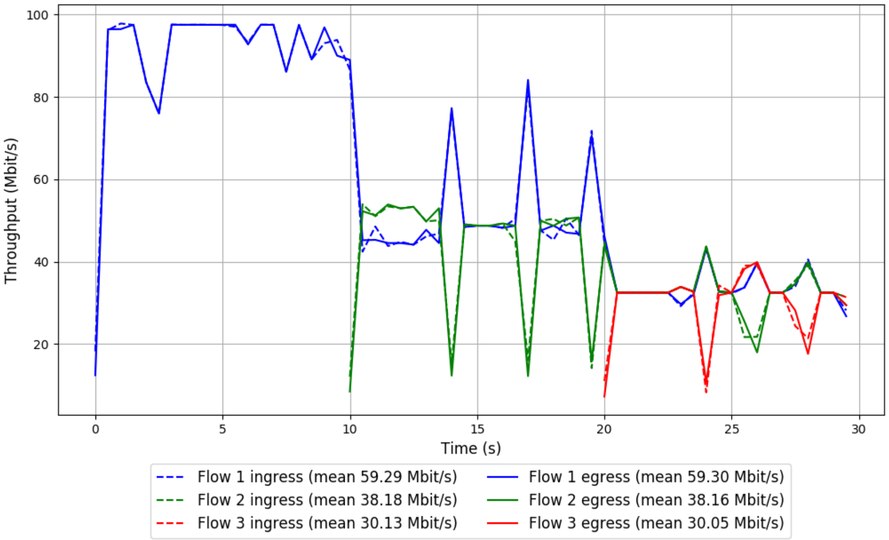
Run 4: Report of Verus — Data Link

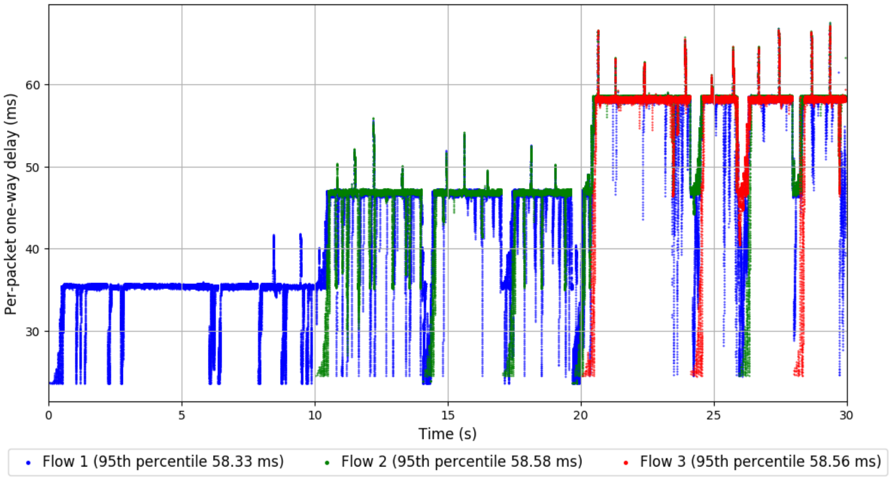




```
Run 5: Statistics of Verus

Start at: 2017-10-12 05:09:07
End at: 2017-10-12 05:09:37
Local clock offset: -0.584 ms
Remote clock offset: 1.225 ms

# Below is generated by plot.py at 2017-10-12 10:15:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.62 Mbit/s
95th percentile per-packet one-way delay: 58.491 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 59.30 Mbit/s
95th percentile per-packet one-way delay: 58.329 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 38.16 Mbit/s
95th percentile per-packet one-way delay: 58.577 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 30.05 Mbit/s
95th percentile per-packet one-way delay: 58.559 ms
Loss rate: 0.96%
```

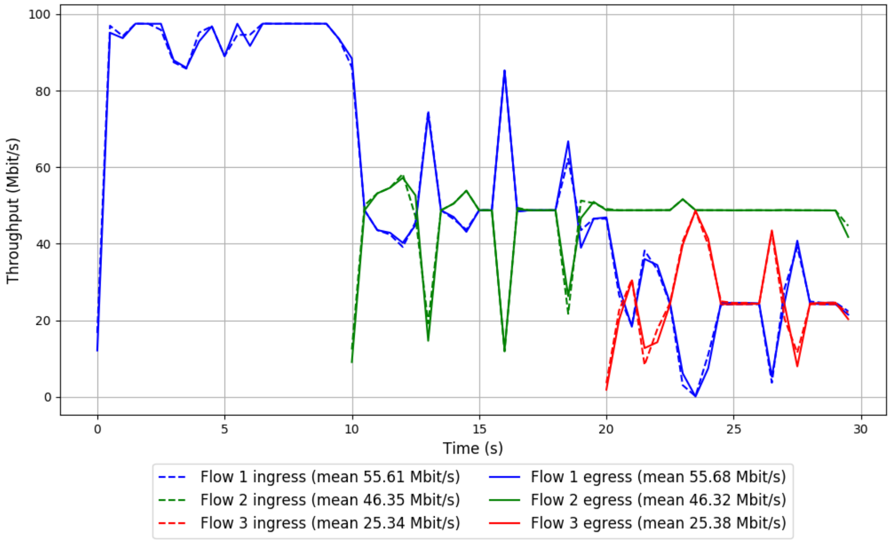
Run 5: Report of Verus — Data Link

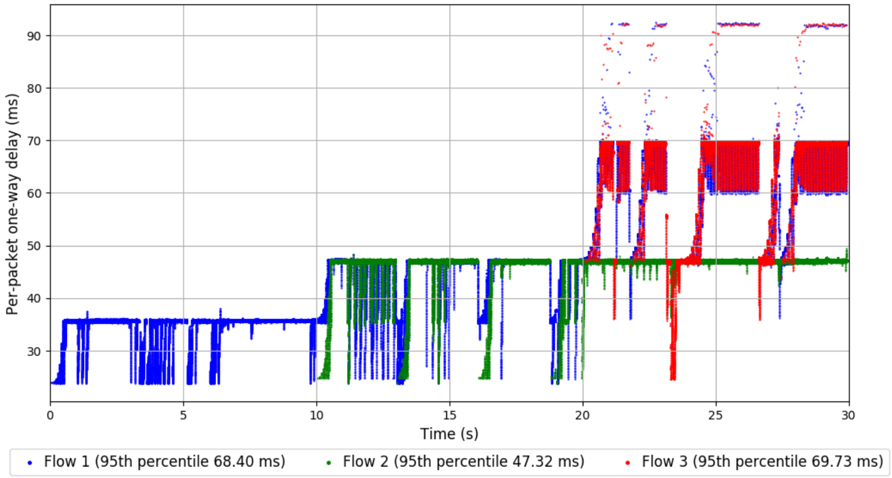




```
Run 6: Statistics of Verus

Start at: 2017-10-12 05:28:29
End at: 2017-10-12 05:28:59
Local clock offset: -0.341 ms
Remote clock offset: 1.14 ms

# Below is generated by plot.py at 2017-10-12 10:16:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.85 Mbit/s
95th percentile per-packet one-way delay: 69.197 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 55.68 Mbit/s
95th percentile per-packet one-way delay: 68.396 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 46.32 Mbit/s
95th percentile per-packet one-way delay: 47.319 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 25.38 Mbit/s
95th percentile per-packet one-way delay: 69.728 ms
Loss rate: 0.88%
```

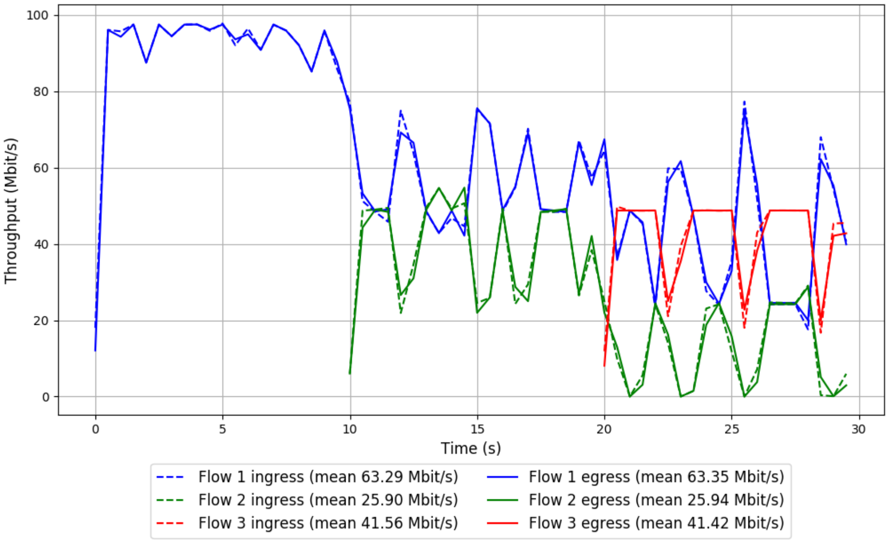
Run 6: Report of Verus — Data Link

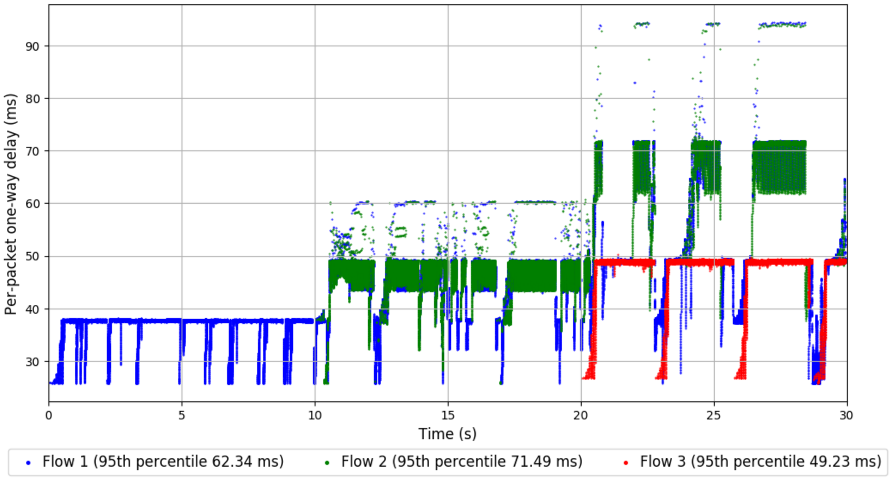




```
Run 7: Statistics of Verus

Start at: 2017-10-12 05:47:35
End at: 2017-10-12 05:48:05
Local clock offset: -0.073 ms
Remote clock offset: -1.428 ms

# Below is generated by plot.py at 2017-10-12 10:16:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.27 Mbit/s
95th percentile per-packet one-way delay: 67.346 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 63.35 Mbit/s
95th percentile per-packet one-way delay: 62.339 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 25.94 Mbit/s
95th percentile per-packet one-way delay: 71.488 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 41.42 Mbit/s
95th percentile per-packet one-way delay: 49.229 ms
Loss rate: 0.90%
```

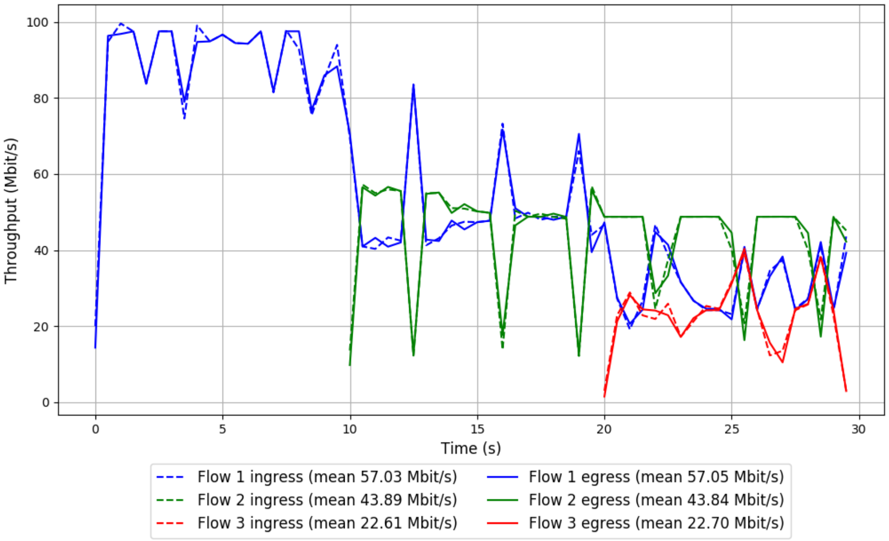
Run 7: Report of Verus — Data Link

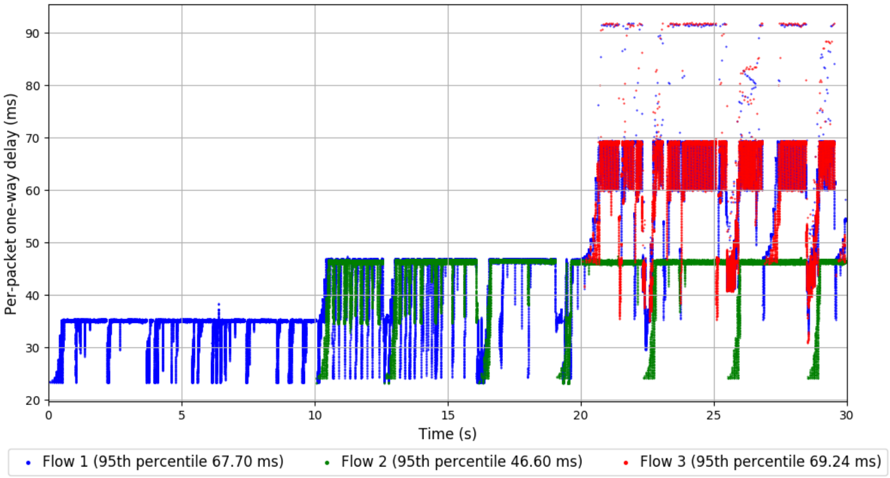




```
Run 8: Statistics of Verus

Start at: 2017-10-12 06:06:44
End at: 2017-10-12 06:07:14
Local clock offset: -0.014 ms
Remote clock offset: 0.036 ms

# Below is generated by plot.py at 2017-10-12 10:16:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.70 Mbit/s
95th percentile per-packet one-way delay: 68.689 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 57.05 Mbit/s
95th percentile per-packet one-way delay: 67.697 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 43.84 Mbit/s
95th percentile per-packet one-way delay: 46.603 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 22.70 Mbit/s
95th percentile per-packet one-way delay: 69.241 ms
Loss rate: 0.34%
```

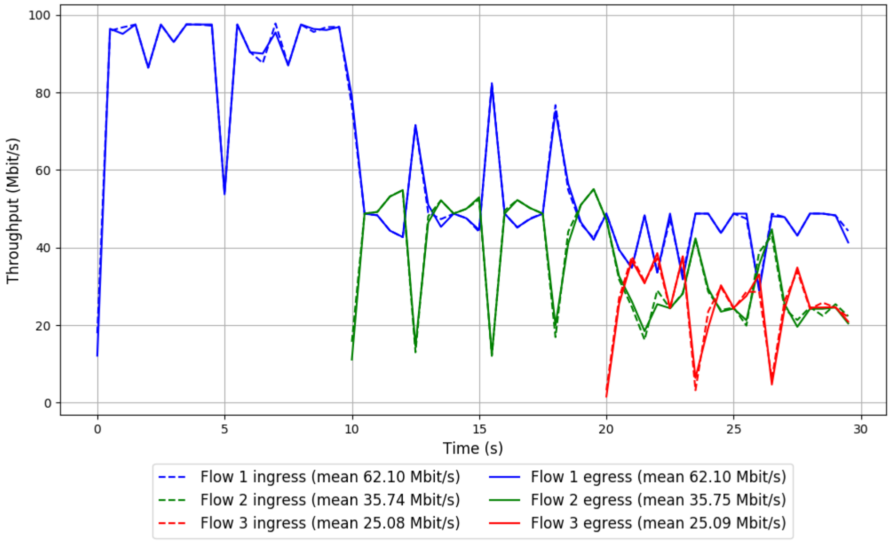
Run 8: Report of Verus — Data Link

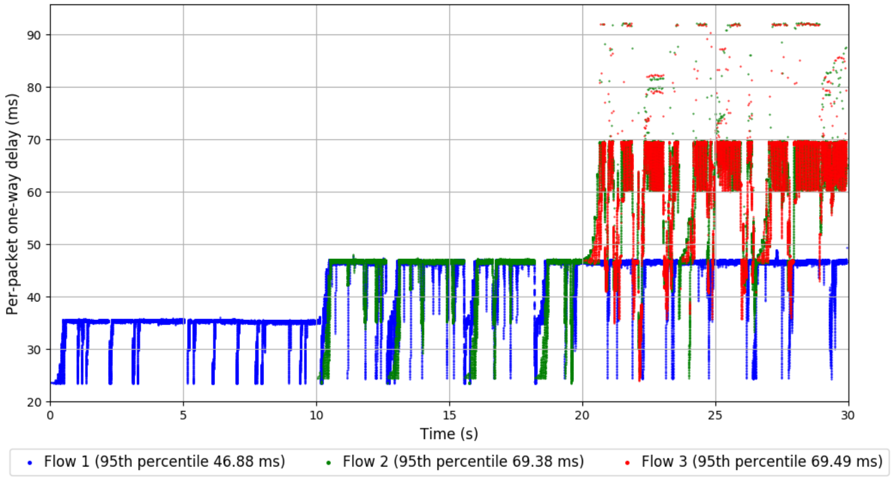




```
Run 9: Statistics of Verus

Start at: 2017-10-12 06:25:51
End at: 2017-10-12 06:26:21
Local clock offset: -0.018 ms
Remote clock offset: -1.178 ms

# Below is generated by plot.py at 2017-10-12 10:16:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.16 Mbit/s
95th percentile per-packet one-way delay: 68.176 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 62.10 Mbit/s
95th percentile per-packet one-way delay: 46.884 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 35.75 Mbit/s
95th percentile per-packet one-way delay: 69.382 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 25.09 Mbit/s
95th percentile per-packet one-way delay: 69.491 ms
Loss rate: 0.89%
```

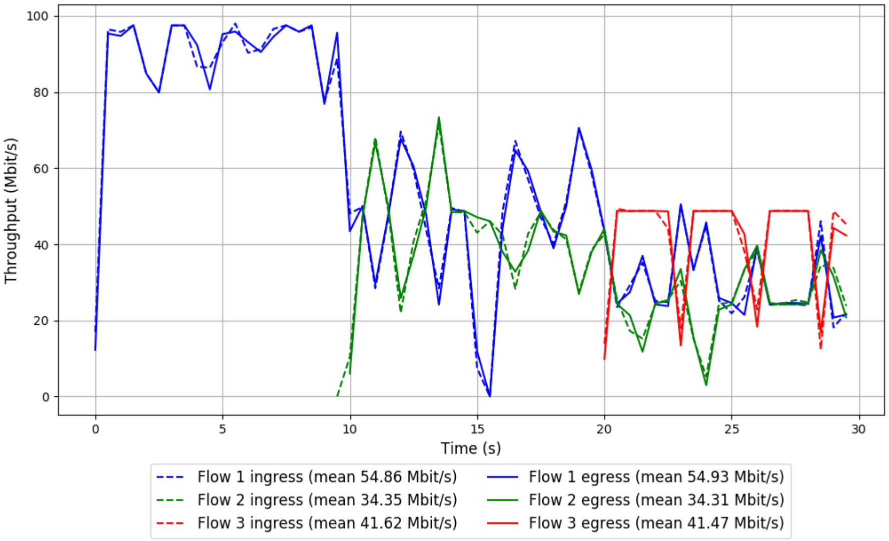
Run 9: Report of Verus — Data Link

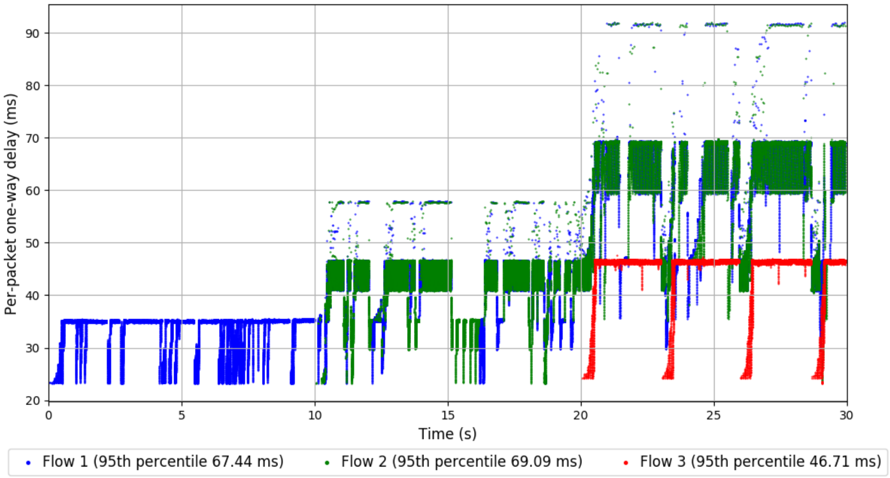




```
Run 10: Statistics of Verus

Start at: 2017-10-12 06:44:54
End at: 2017-10-12 06:45:24
Local clock offset: 0.076 ms
Remote clock offset: -1.406 ms

# Below is generated by plot.py at 2017-10-12 10:16:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.48 Mbit/s
95th percentile per-packet one-way delay: 68.623 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 54.93 Mbit/s
95th percentile per-packet one-way delay: 67.445 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 34.31 Mbit/s
95th percentile per-packet one-way delay: 69.087 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 41.47 Mbit/s
95th percentile per-packet one-way delay: 46.713 ms
Loss rate: 0.90%
```

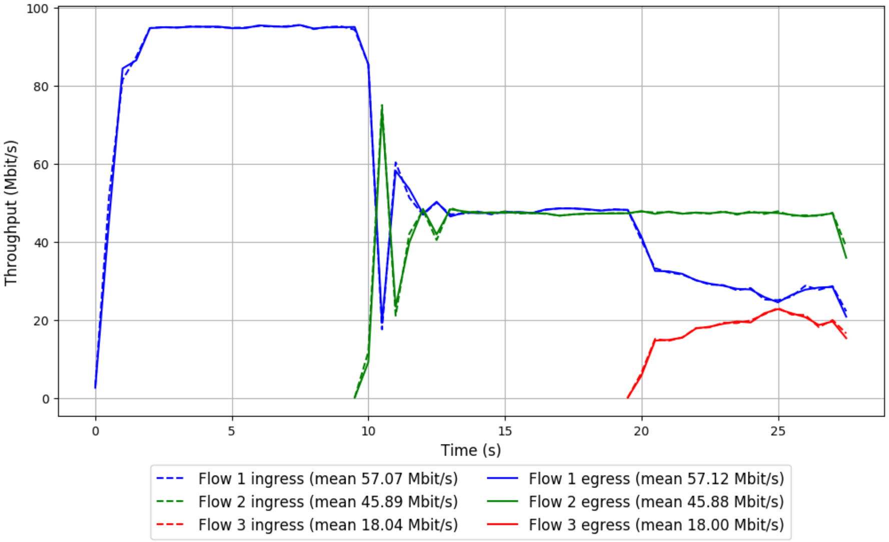
Run 10: Report of Verus — Data Link

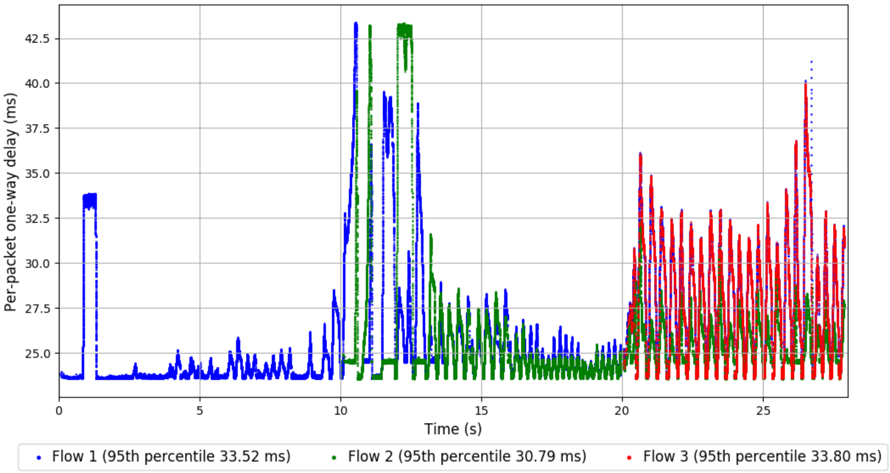




```
Run 1: Statistics of Copa

Start at: 2017-10-12 03:40:33
End at: 2017-10-12 03:41:03
Local clock offset: -0.174 ms
Remote clock offset: -0.67 ms

# Below is generated by plot.py at 2017-10-12 10:17:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.71 Mbit/s
95th percentile per-packet one-way delay: 33.480 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 57.12 Mbit/s
95th percentile per-packet one-way delay: 33.519 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 45.88 Mbit/s
95th percentile per-packet one-way delay: 30.785 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 18.00 Mbit/s
95th percentile per-packet one-way delay: 33.800 ms
Loss rate: 0.88%
```

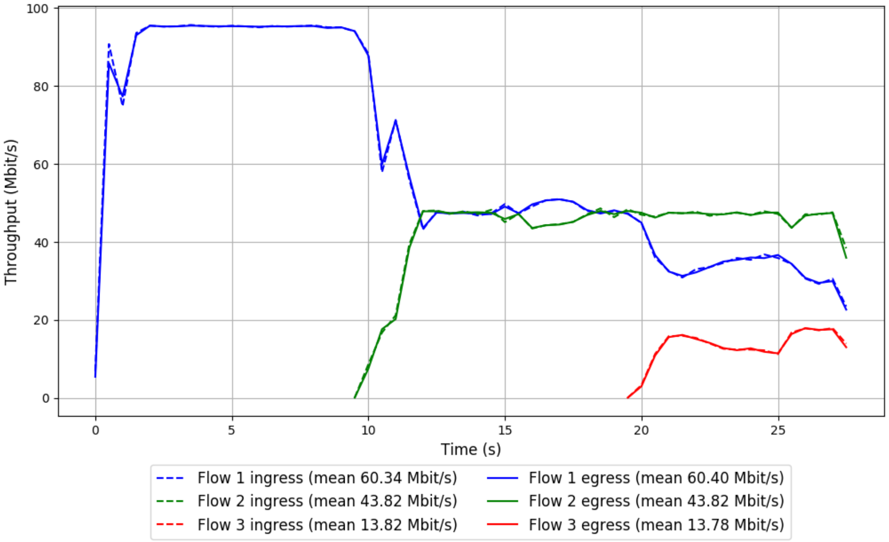
Run 1: Report of Copa — Data Link

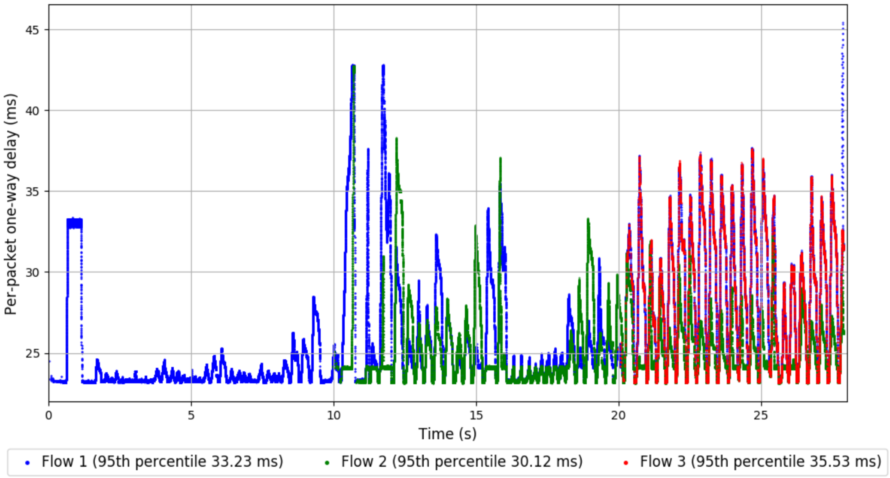




```
Run 2: Statistics of Copa

Start at: 2017-10-12 03:59:34
End at: 2017-10-12 04:00:04
Local clock offset: -0.312 ms
Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2017-10-12 10:18:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.48 Mbit/s
95th percentile per-packet one-way delay: 33.168 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 60.40 Mbit/s
95th percentile per-packet one-way delay: 33.234 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 43.82 Mbit/s
95th percentile per-packet one-way delay: 30.120 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 13.78 Mbit/s
95th percentile per-packet one-way delay: 35.528 ms
Loss rate: 0.96%
```

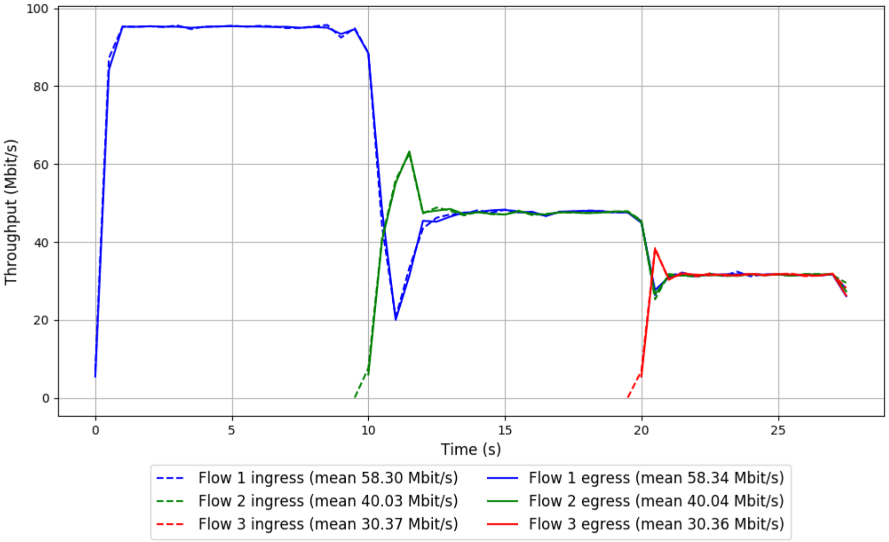
Run 2: Report of Copa — Data Link

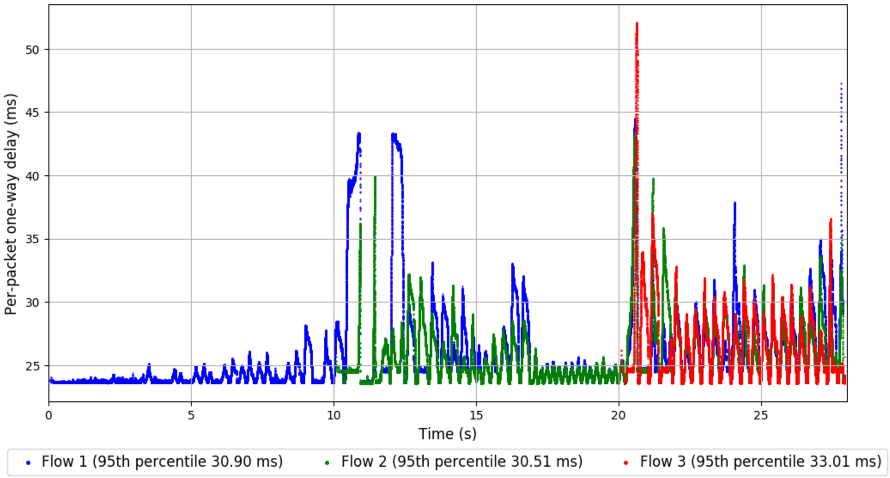




```
Run 3: Statistics of Copa

Start at: 2017-10-12 04:18:41
End at: 2017-10-12 04:19:11
Local clock offset: -0.313 ms
Remote clock offset: 0.13 ms

# Below is generated by plot.py at 2017-10-12 10:18:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.64 Mbit/s
95th percentile per-packet one-way delay: 30.999 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 58.34 Mbit/s
95th percentile per-packet one-way delay: 30.898 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 40.04 Mbit/s
95th percentile per-packet one-way delay: 30.513 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 30.36 Mbit/s
95th percentile per-packet one-way delay: 33.008 ms
Loss rate: 0.72%
```

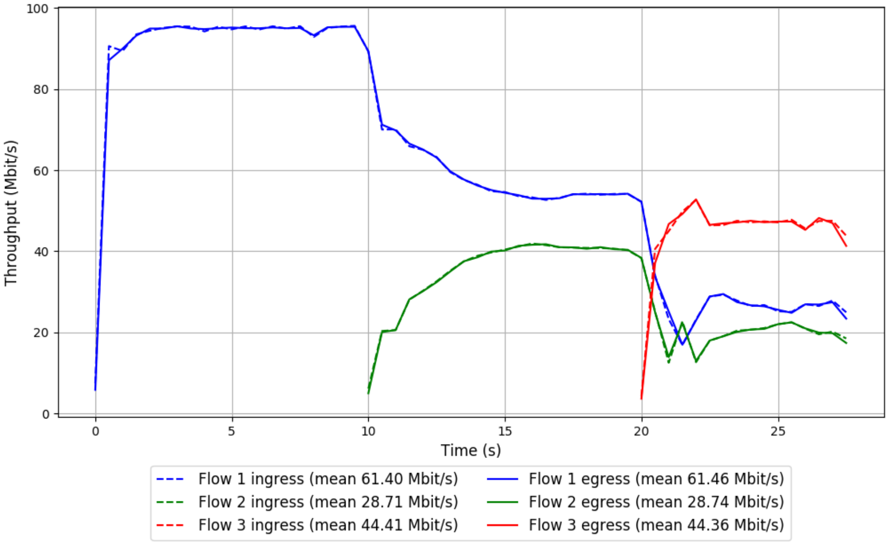
Run 3: Report of Copa — Data Link

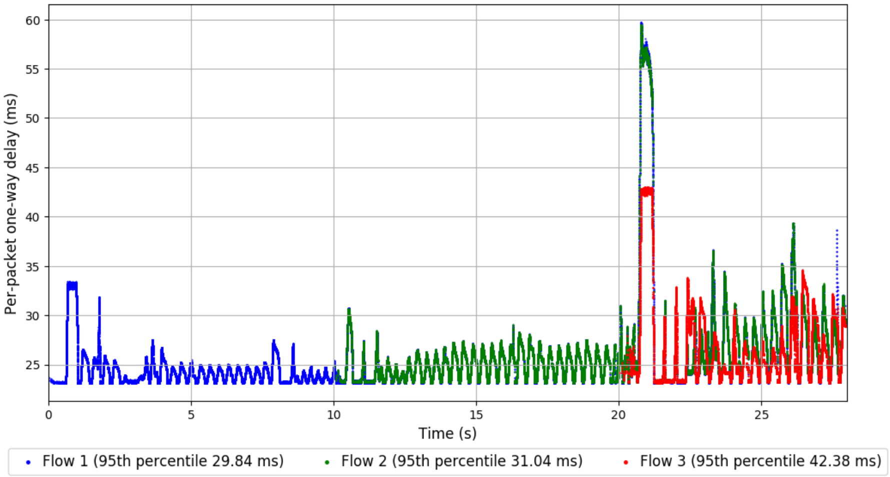




```
Run 4: Statistics of Copa

Start at: 2017-10-12 04:37:43
End at: 2017-10-12 04:38:13
Local clock offset: -0.262 ms
Remote clock offset: 1.141 ms

# Below is generated by plot.py at 2017-10-12 10:19:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.44 Mbit/s
95th percentile per-packet one-way delay: 31.347 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 61.46 Mbit/s
95th percentile per-packet one-way delay: 29.838 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 28.74 Mbit/s
95th percentile per-packet one-way delay: 31.036 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 44.36 Mbit/s
95th percentile per-packet one-way delay: 42.380 ms
Loss rate: 0.77%
```

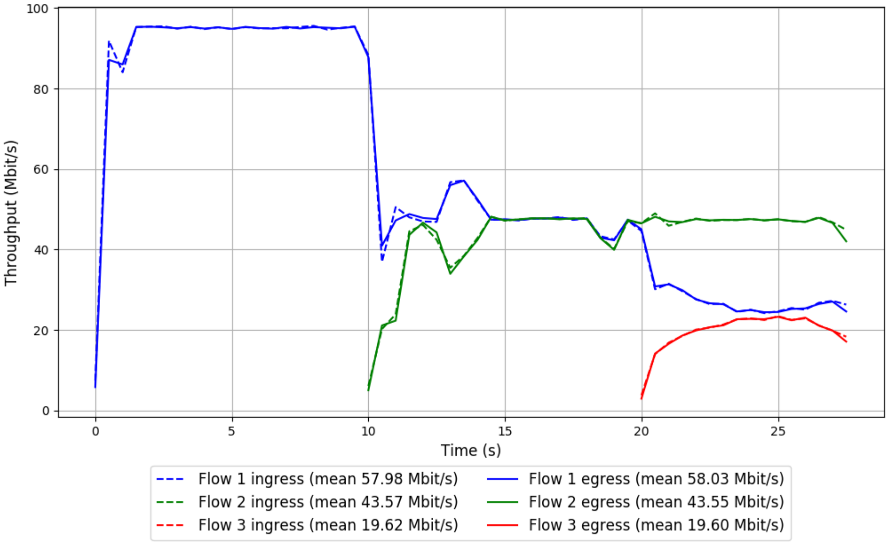
Run 4: Report of Copa — Data Link

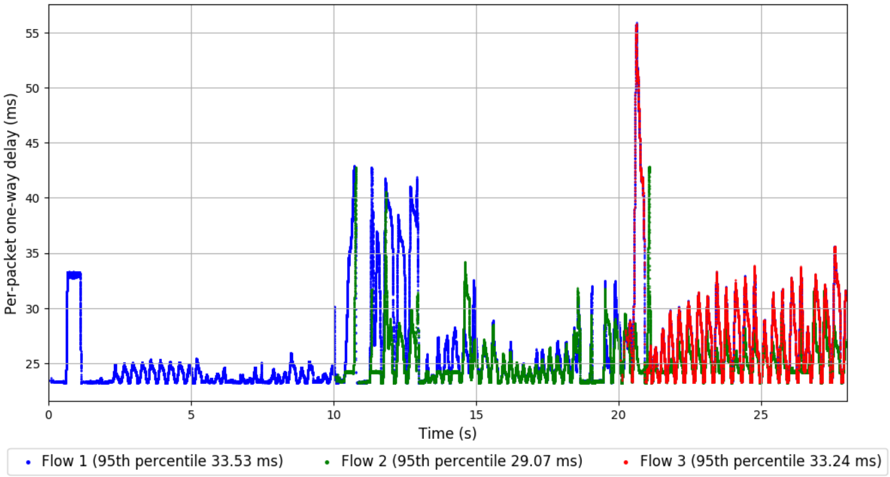




```
Run 5: Statistics of Copa

Start at: 2017-10-12 04:56:54
End at: 2017-10-12 04:57:24
Local clock offset: -0.479 ms
Remote clock offset: 1.518 ms

# Below is generated by plot.py at 2017-10-12 10:19:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.50 Mbit/s
95th percentile per-packet one-way delay: 33.071 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 58.03 Mbit/s
95th percentile per-packet one-way delay: 33.535 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 43.55 Mbit/s
95th percentile per-packet one-way delay: 29.068 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 19.60 Mbit/s
95th percentile per-packet one-way delay: 33.238 ms
Loss rate: 0.77%
```

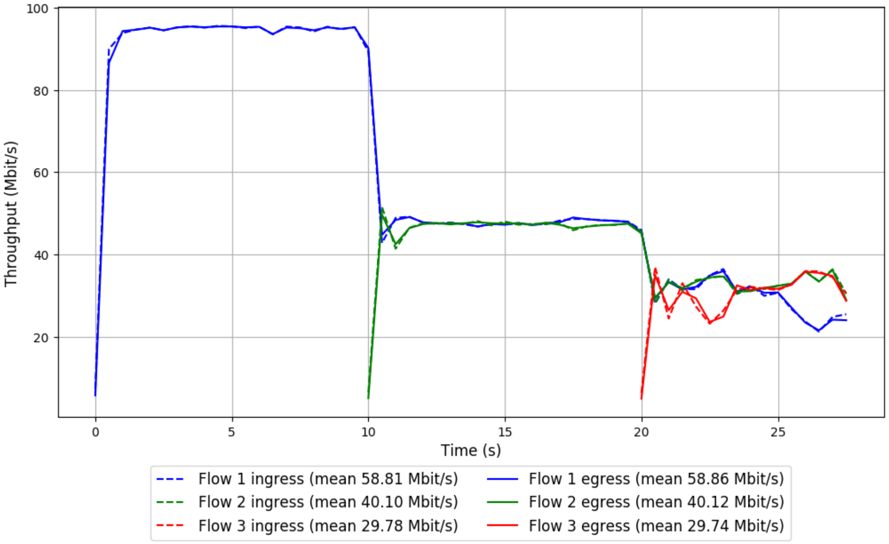
Run 5: Report of Copa — Data Link

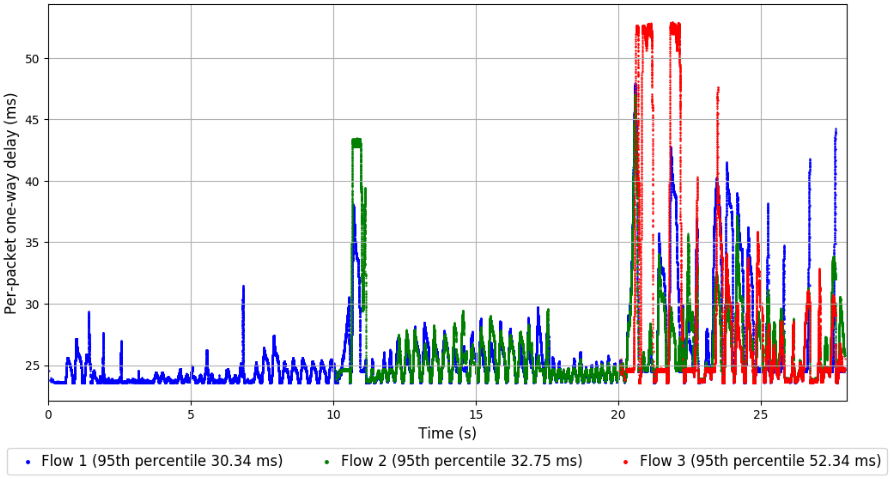




```
Run 6: Statistics of Copa

Start at: 2017-10-12 05:16:11
End at: 2017-10-12 05:16:41
Local clock offset: -0.561 ms
Remote clock offset: 1.21 ms

# Below is generated by plot.py at 2017-10-12 10:19:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.02 Mbit/s
95th percentile per-packet one-way delay: 33.568 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 58.86 Mbit/s
95th percentile per-packet one-way delay: 30.335 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 40.12 Mbit/s
95th percentile per-packet one-way delay: 32.750 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 29.74 Mbit/s
95th percentile per-packet one-way delay: 52.341 ms
Loss rate: 0.79%
```

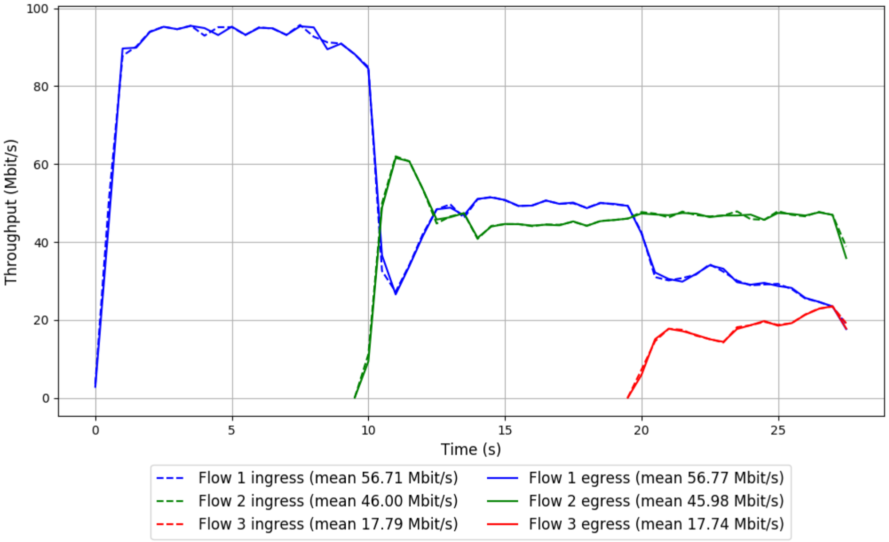
Run 6: Report of Copa — Data Link

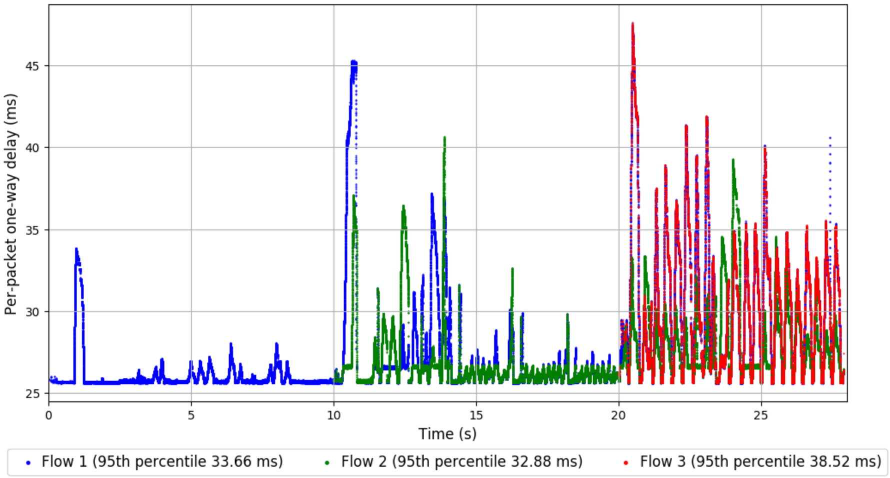




```
Run 7: Statistics of Copa

Start at: 2017-10-12 05:35:25
End at: 2017-10-12 05:35:55
Local clock offset: -0.227 ms
Remote clock offset: -0.874 ms

# Below is generated by plot.py at 2017-10-12 10:19:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.37 Mbit/s
95th percentile per-packet one-way delay: 33.994 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 56.77 Mbit/s
95th percentile per-packet one-way delay: 33.663 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 45.98 Mbit/s
95th percentile per-packet one-way delay: 32.876 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 17.74 Mbit/s
95th percentile per-packet one-way delay: 38.525 ms
Loss rate: 0.94%
```

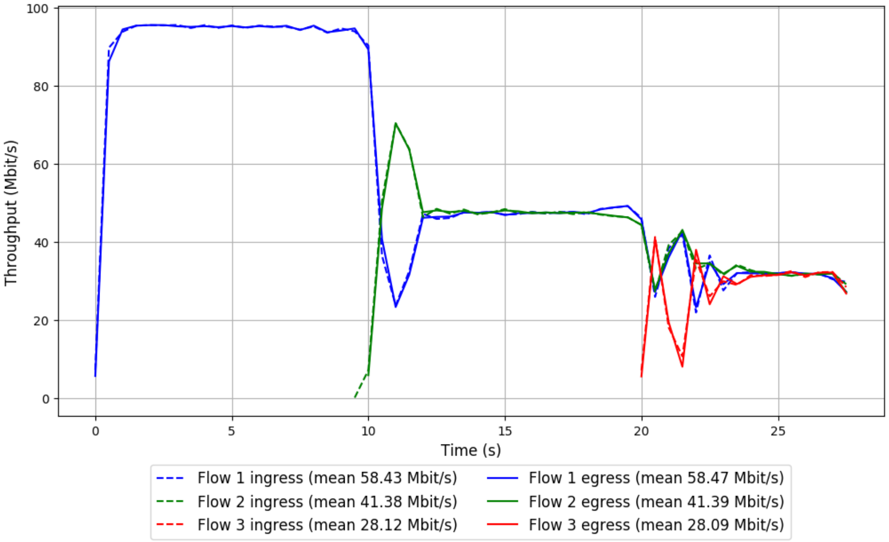
Run 7: Report of Copa — Data Link

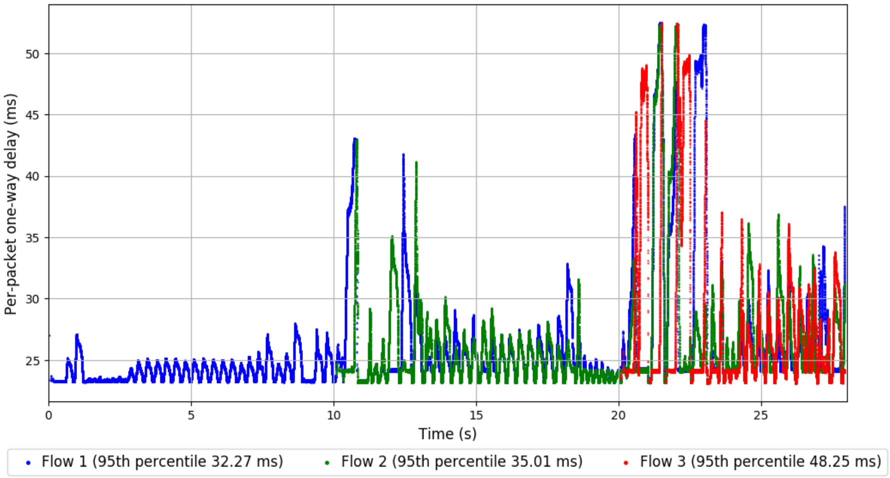




```
Run 8: Statistics of Copa

Start at: 2017-10-12 05:54:32
End at: 2017-10-12 05:55:02
Local clock offset: -0.003 ms
Remote clock offset: 0.795 ms

# Below is generated by plot.py at 2017-10-12 10:19:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.99 Mbit/s
95th percentile per-packet one-way delay: 36.036 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 58.47 Mbit/s
95th percentile per-packet one-way delay: 32.268 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 41.39 Mbit/s
95th percentile per-packet one-way delay: 35.009 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 28.09 Mbit/s
95th percentile per-packet one-way delay: 48.252 ms
Loss rate: 0.78%
```

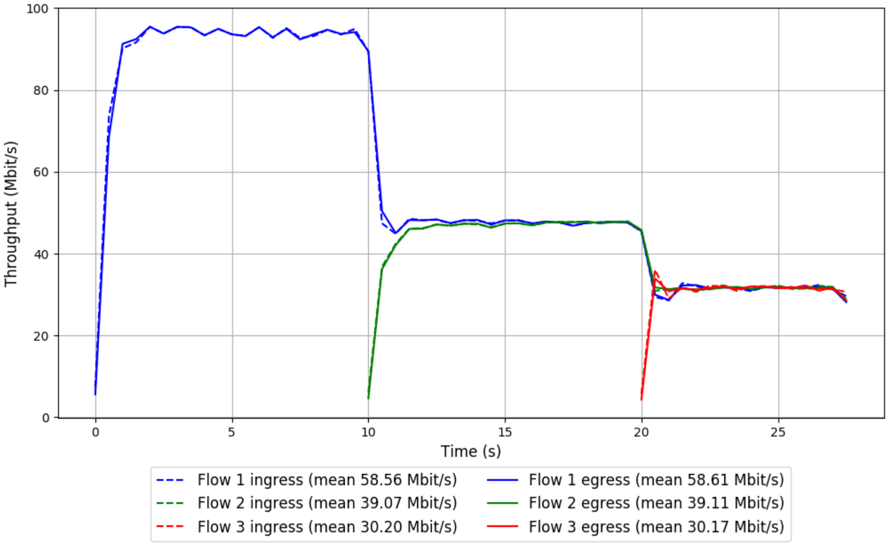
Run 8: Report of Copa — Data Link

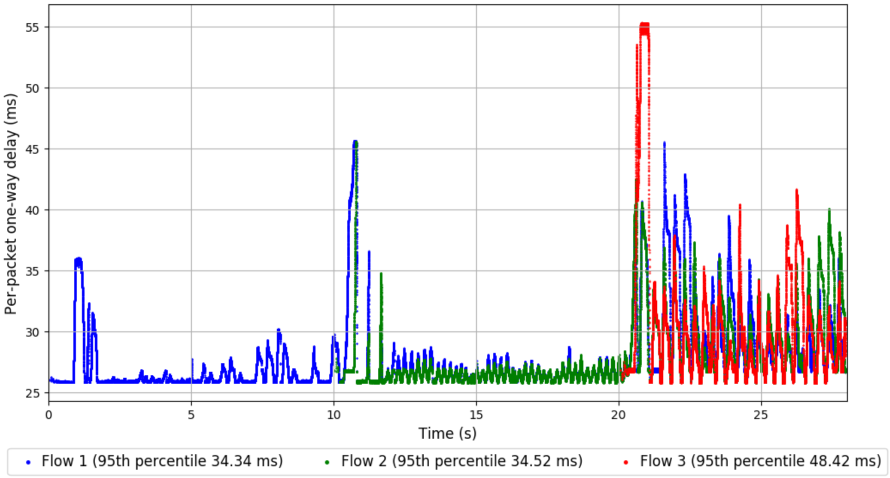




```
Run 9: Statistics of Copa

Start at: 2017-10-12 06:13:41
End at: 2017-10-12 06:14:11
Local clock offset: 0.128 ms
Remote clock offset: -2.77 ms

# Below is generated by plot.py at 2017-10-12 10:20:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.24 Mbit/s
95th percentile per-packet one-way delay: 35.479 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 58.61 Mbit/s
95th percentile per-packet one-way delay: 34.342 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 39.11 Mbit/s
95th percentile per-packet one-way delay: 34.521 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 30.17 Mbit/s
95th percentile per-packet one-way delay: 48.424 ms
Loss rate: 0.77%
```

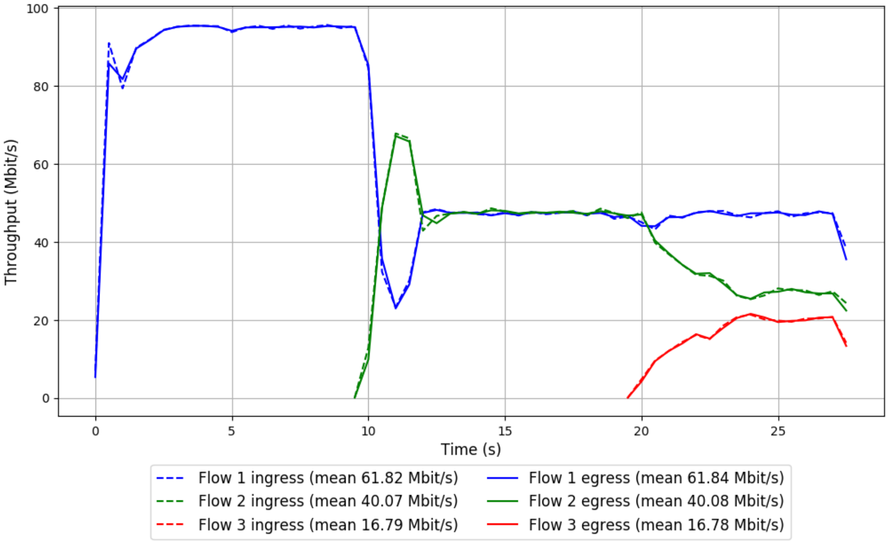
Run 9: Report of Copa — Data Link

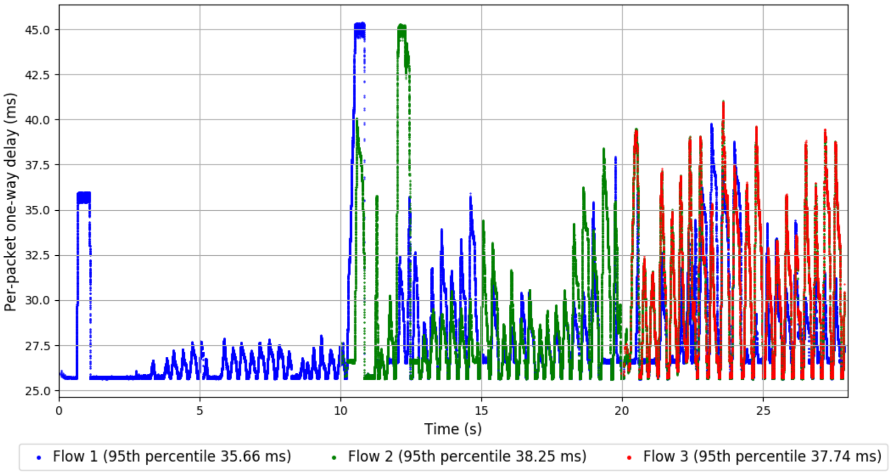




```
Run 10: Statistics of Copa

Start at: 2017-10-12 06:32:46
End at: 2017-10-12 06:33:16
Local clock offset: 0.068 ms
Remote clock offset: -3.451 ms

# Below is generated by plot.py at 2017-10-12 10:20:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.37 Mbit/s
95th percentile per-packet one-way delay: 35.910 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 61.84 Mbit/s
95th percentile per-packet one-way delay: 35.657 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 40.08 Mbit/s
95th percentile per-packet one-way delay: 38.250 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 16.78 Mbit/s
95th percentile per-packet one-way delay: 37.736 ms
Loss rate: 0.80%
```

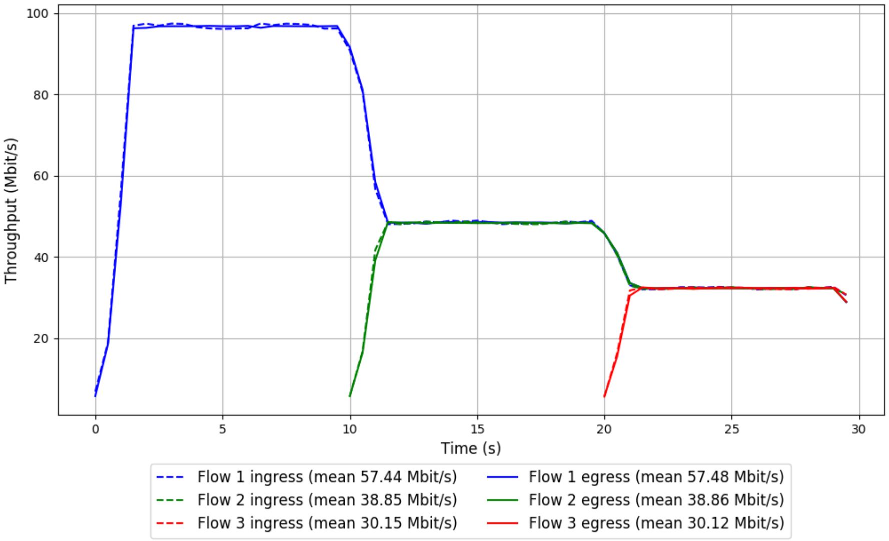
Run 10: Report of Copa — Data Link

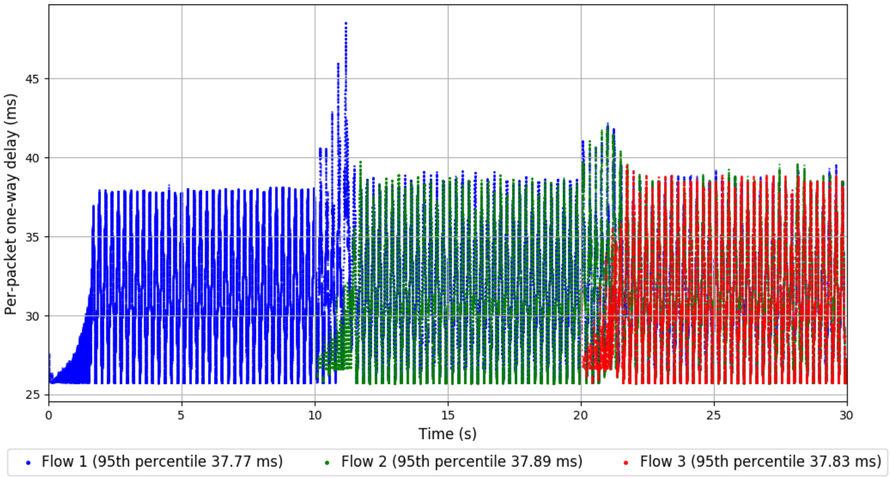




```
Run 1: Statistics of CalibratedKoho

Start at: 2017-10-12 03:37:47
End at: 2017-10-12 03:38:17
Local clock offset: -0.173 ms
Remote clock offset: -2.829 ms

# Below is generated by plot.py at 2017-10-12 10:20:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.30 Mbit/s
95th percentile per-packet one-way delay: 37.796 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 57.48 Mbit/s
95th percentile per-packet one-way delay: 37.768 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 38.86 Mbit/s
95th percentile per-packet one-way delay: 37.893 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 30.12 Mbit/s
95th percentile per-packet one-way delay: 37.832 ms
Loss rate: 0.65%
```

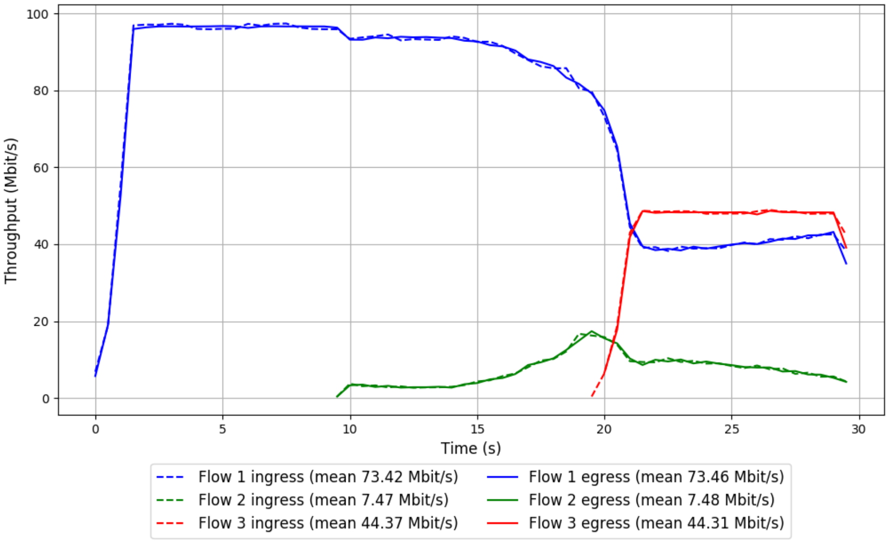
Run 1: Report of CalibratedKoho — Data Link

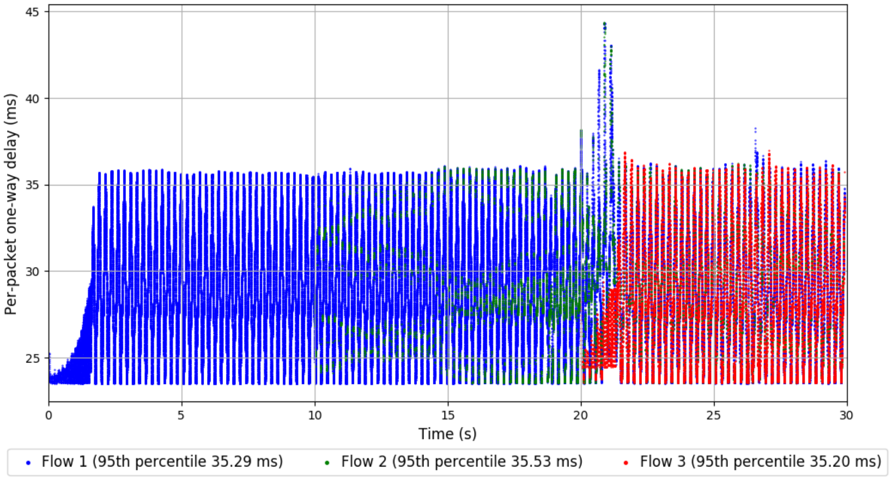




```
Run 2: Statistics of CalibratedKoho

Start at: 2017-10-12 03:56:48
End at: 2017-10-12 03:57:18
Local clock offset: -0.297 ms
Remote clock offset: -0.445 ms

# Below is generated by plot.py at 2017-10-12 10:20:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.12 Mbit/s
95th percentile per-packet one-way delay: 35.298 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 73.46 Mbit/s
95th percentile per-packet one-way delay: 35.289 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 7.48 Mbit/s
95th percentile per-packet one-way delay: 35.531 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 44.31 Mbit/s
95th percentile per-packet one-way delay: 35.205 ms
Loss rate: 0.65%
```

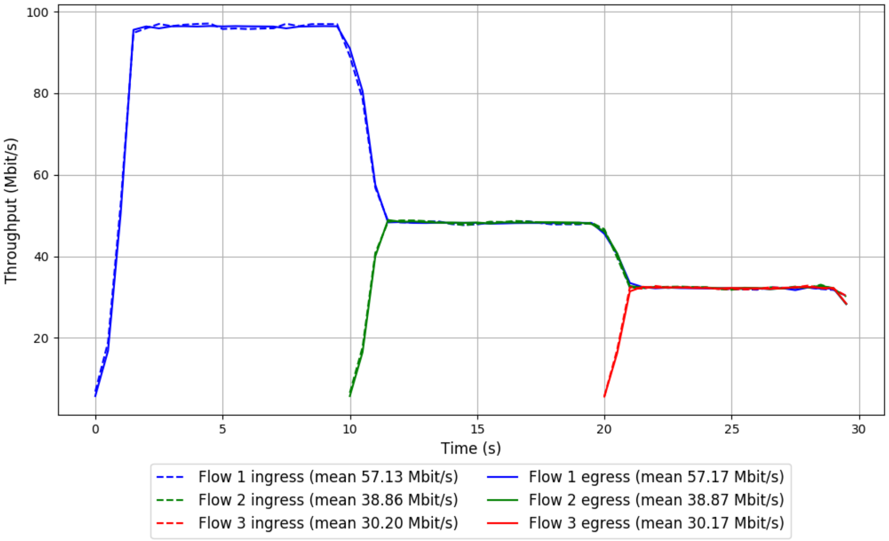
Run 2: Report of CalibratedKoho — Data Link

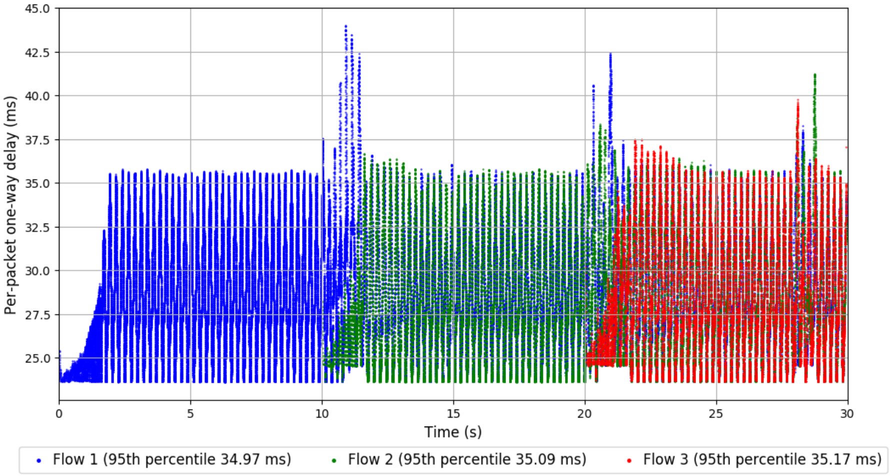




```
Run 3: Statistics of CalibratedKoho

Start at: 2017-10-12 04:15:54
End at: 2017-10-12 04:16:24
Local clock offset: -0.223 ms
Remote clock offset: 0.039 ms

# Below is generated by plot.py at 2017-10-12 10:20:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.02 Mbit/s
95th percentile per-packet one-way delay: 35.030 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 57.17 Mbit/s
95th percentile per-packet one-way delay: 34.972 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 38.87 Mbit/s
95th percentile per-packet one-way delay: 35.093 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 30.17 Mbit/s
95th percentile per-packet one-way delay: 35.171 ms
Loss rate: 0.63%
```

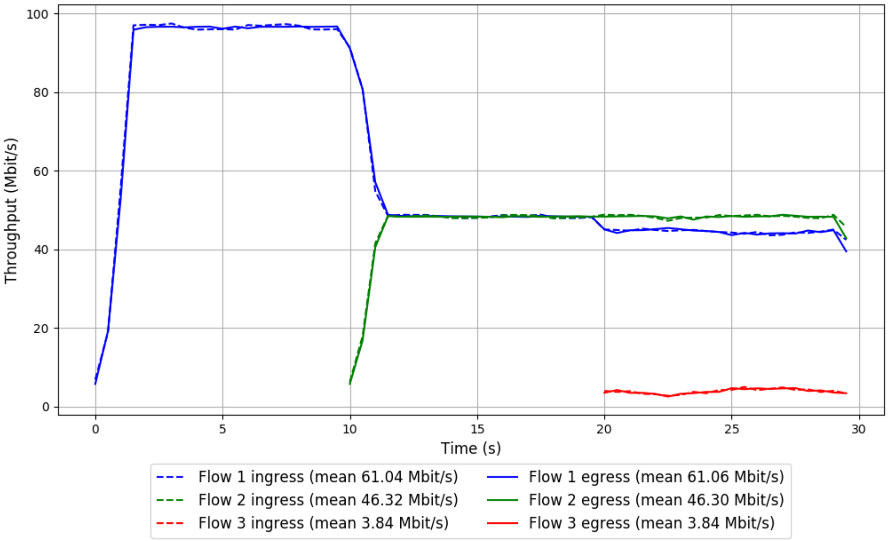
Run 3: Report of CalibratedKoho — Data Link

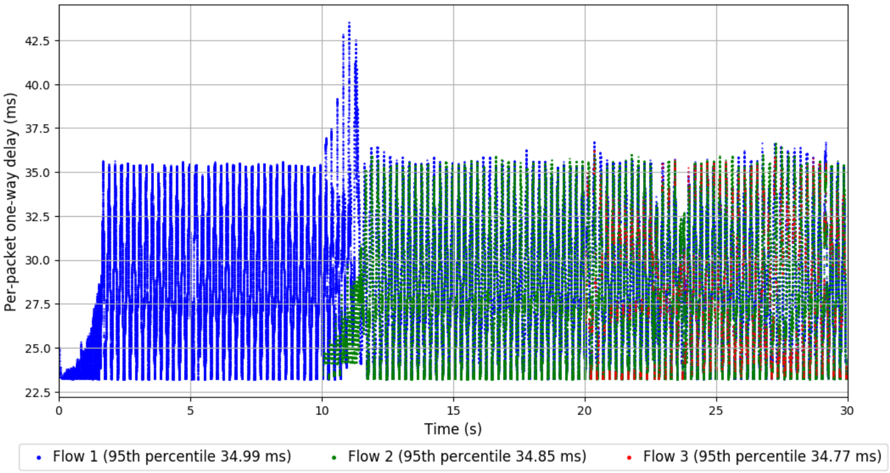




```
Run 4: Statistics of CalibratedKoho

Start at: 2017-10-12 04:34:57
End at: 2017-10-12 04:35:27
Local clock offset: -0.206 ms
Remote clock offset: 1.035 ms

# Below is generated by plot.py at 2017-10-12 10:20:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.14 Mbit/s
95th percentile per-packet one-way delay: 34.951 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 61.06 Mbit/s
95th percentile per-packet one-way delay: 34.991 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 46.30 Mbit/s
95th percentile per-packet one-way delay: 34.855 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 3.84 Mbit/s
95th percentile per-packet one-way delay: 34.773 ms
Loss rate: 0.53%
```

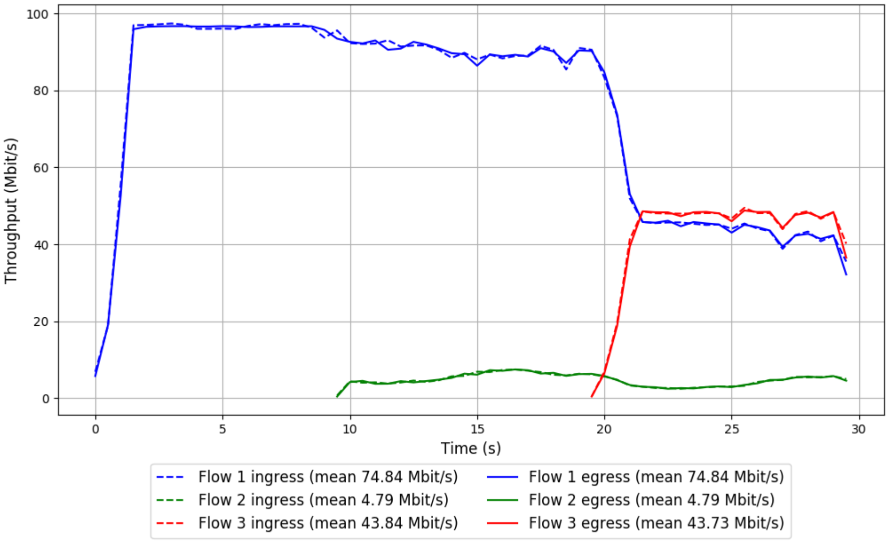
Run 4: Report of CalibratedKoho — Data Link

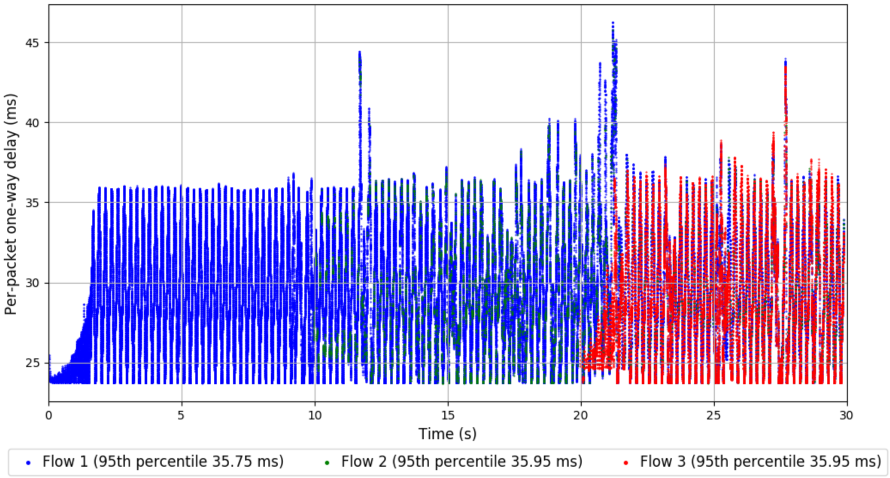




```
Run 5: Statistics of CalibratedKoho

Start at: 2017-10-12 04:54:06
End at: 2017-10-12 04:54:36
Local clock offset: -0.413 ms
Remote clock offset: 1.01 ms

# Below is generated by plot.py at 2017-10-12 10:20:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.54 Mbit/s
95th percentile per-packet one-way delay: 35.774 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 74.84 Mbit/s
95th percentile per-packet one-way delay: 35.750 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 4.79 Mbit/s
95th percentile per-packet one-way delay: 35.953 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 43.73 Mbit/s
95th percentile per-packet one-way delay: 35.945 ms
Loss rate: 0.79%
```

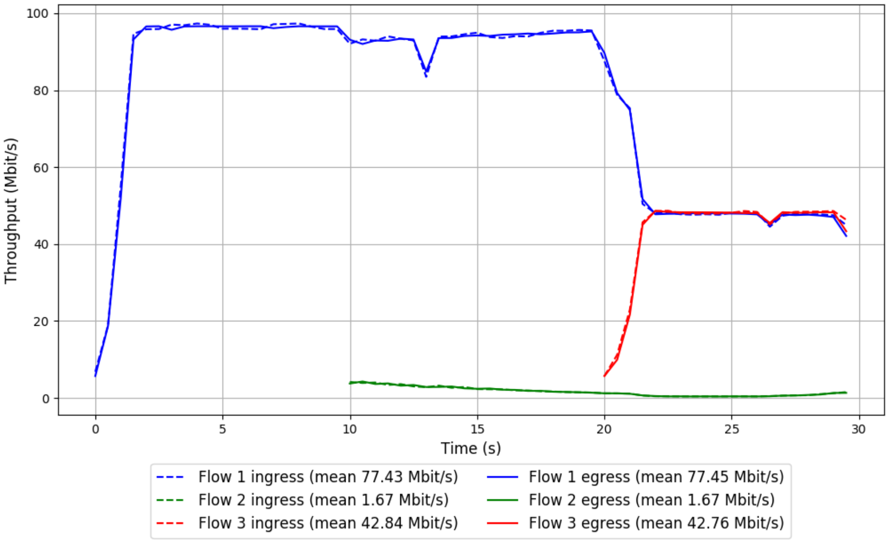
Run 5: Report of CalibratedKoho — Data Link

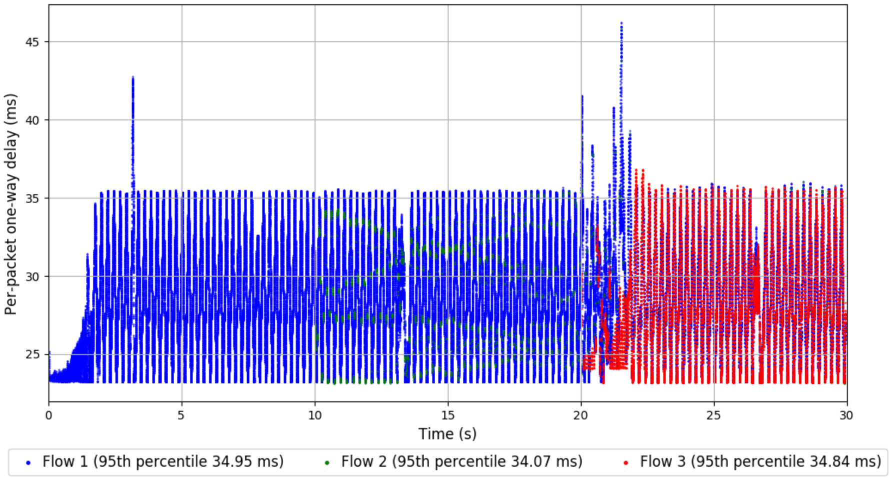




```
Run 6: Statistics of CalibratedKoho

Start at: 2017-10-12 05:13:22
End at: 2017-10-12 05:13:52
Local clock offset: -0.622 ms
Remote clock offset: 1.602 ms

# Below is generated by plot.py at 2017-10-12 10:20:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.70 Mbit/s
95th percentile per-packet one-way delay: 34.932 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 77.45 Mbit/s
95th percentile per-packet one-way delay: 34.951 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 1.67 Mbit/s
95th percentile per-packet one-way delay: 34.067 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 42.76 Mbit/s
95th percentile per-packet one-way delay: 34.835 ms
Loss rate: 0.74%
```

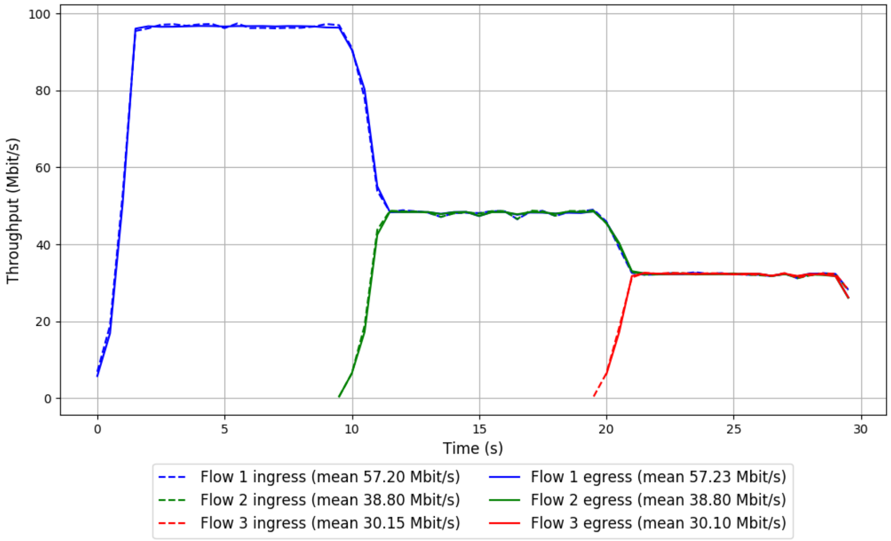
Run 6: Report of CalibratedKoho — Data Link

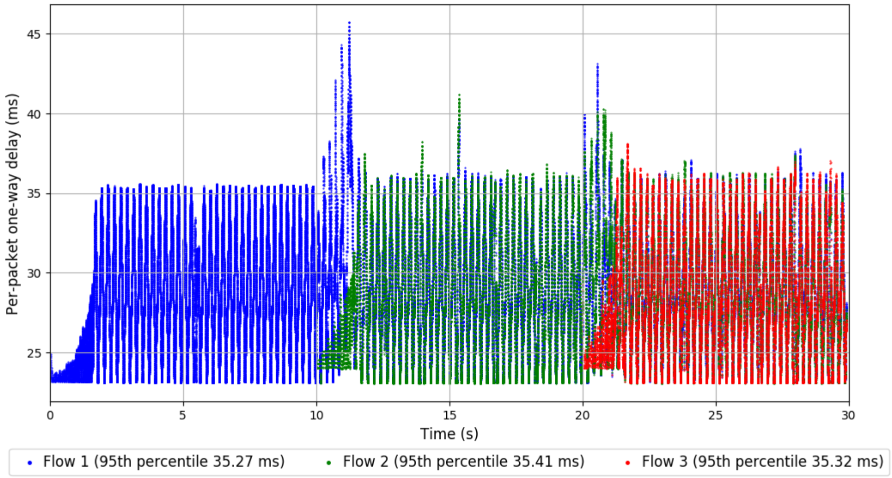




```
Run 7: Statistics of CalibratedKoho

Start at: 2017-10-12 05:32:39
End at: 2017-10-12 05:33:09
Local clock offset: -0.188 ms
Remote clock offset: 1.692 ms

# Below is generated by plot.py at 2017-10-12 10:21:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.06 Mbit/s
95th percentile per-packet one-way delay: 35.289 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 57.23 Mbit/s
95th percentile per-packet one-way delay: 35.267 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 38.80 Mbit/s
95th percentile per-packet one-way delay: 35.411 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 30.10 Mbit/s
95th percentile per-packet one-way delay: 35.321 ms
Loss rate: 0.70%
```

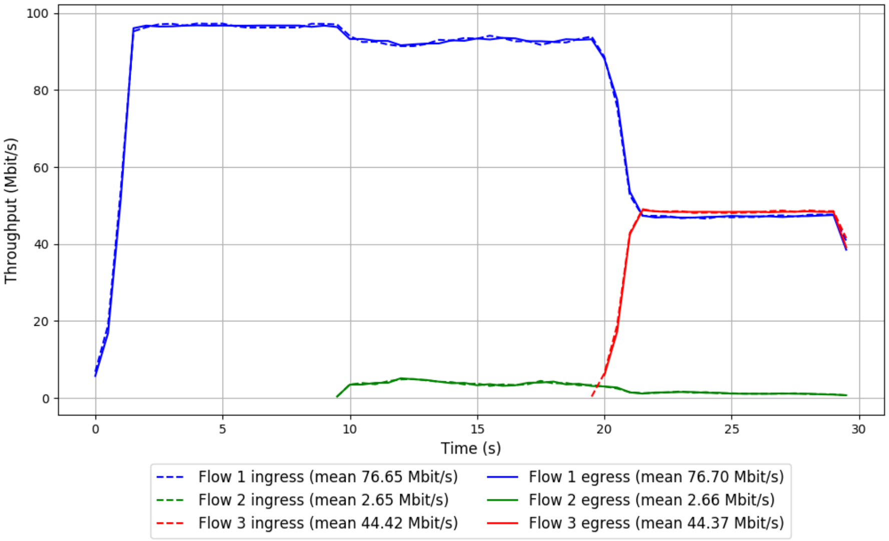
Run 7: Report of CalibratedKoho — Data Link

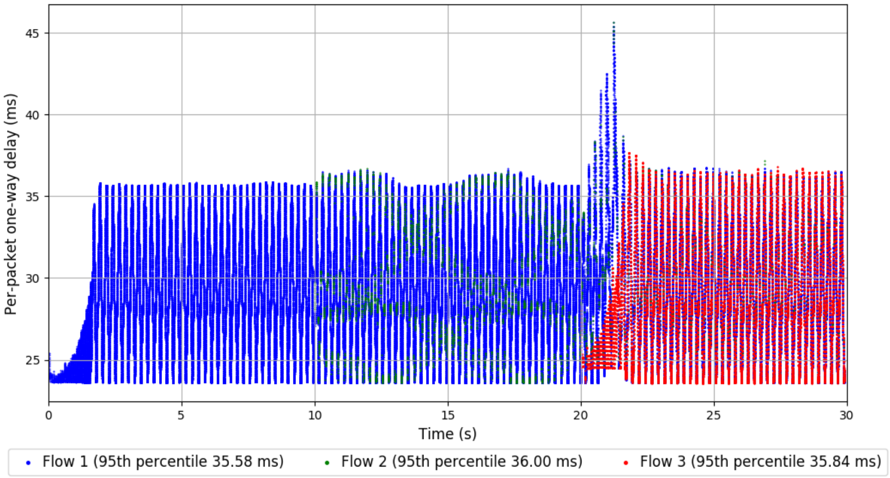




```
Run 8: Statistics of CalibratedKoho

Start at: 2017-10-12 05:51:45
End at: 2017-10-12 05:52:15
Local clock offset: -0.132 ms
Remote clock offset: 0.345 ms

# Below is generated by plot.py at 2017-10-12 10:21:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.17 Mbit/s
95th percentile per-packet one-way delay: 35.601 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 76.70 Mbit/s
95th percentile per-packet one-way delay: 35.579 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 2.66 Mbit/s
95th percentile per-packet one-way delay: 35.998 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 44.37 Mbit/s
95th percentile per-packet one-way delay: 35.840 ms
Loss rate: 0.65%
```

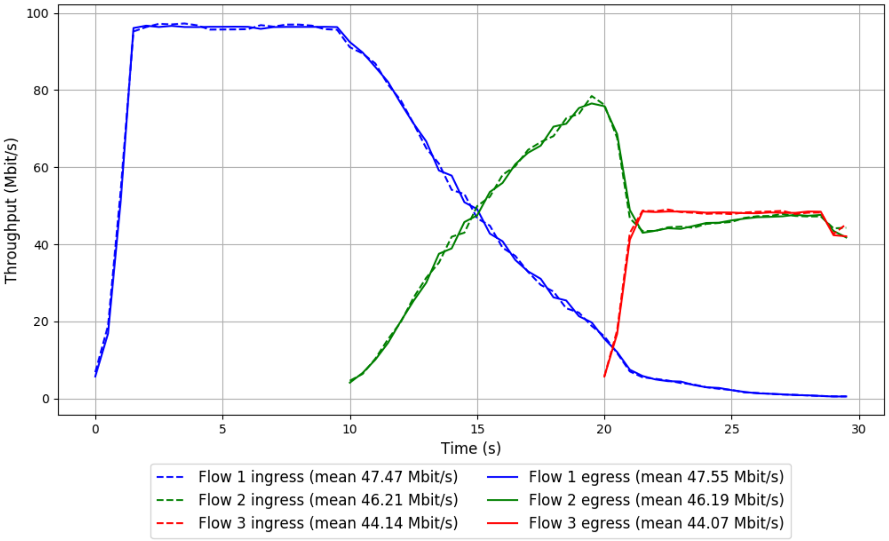
Run 8: Report of CalibratedKoho — Data Link

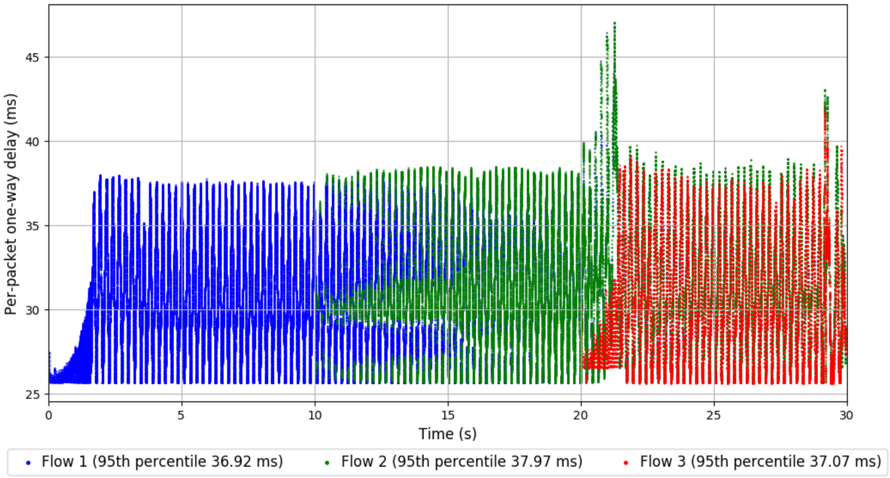




```
Run 9: Statistics of CalibratedKoho

Start at: 2017-10-12 06:10:55
End at: 2017-10-12 06:11:25
Local clock offset: 0.071 ms
Remote clock offset: -2.636 ms

# Below is generated by plot.py at 2017-10-12 10:21:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.88 Mbit/s
95th percentile per-packet one-way delay: 37.338 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 47.55 Mbit/s
95th percentile per-packet one-way delay: 36.923 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.19 Mbit/s
95th percentile per-packet one-way delay: 37.965 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 44.07 Mbit/s
95th percentile per-packet one-way delay: 37.066 ms
Loss rate: 0.72%
```

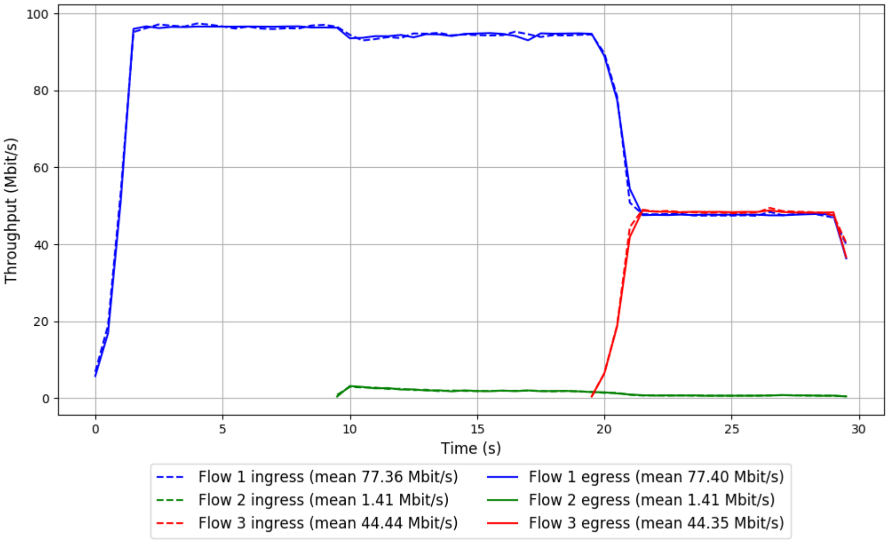
Run 9: Report of CalibratedKoho — Data Link

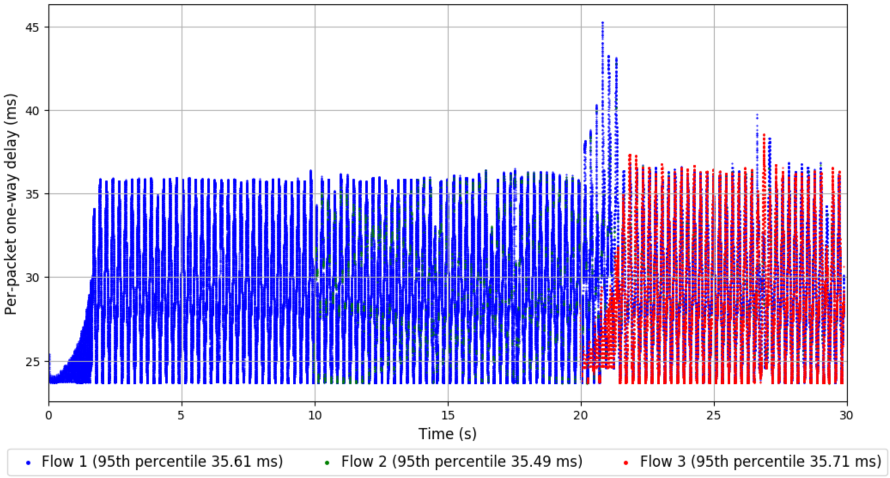




```
Run 10: Statistics of CalibratedKoho

Start at: 2017-10-12 06:30:00
End at: 2017-10-12 06:30:30
Local clock offset: 0.096 ms
Remote clock offset: -1.372 ms

# Below is generated by plot.py at 2017-10-12 10:22:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.04 Mbit/s
95th percentile per-packet one-way delay: 35.622 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 77.40 Mbit/s
95th percentile per-packet one-way delay: 35.612 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 35.490 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 44.35 Mbit/s
95th percentile per-packet one-way delay: 35.713 ms
Loss rate: 0.73%
```

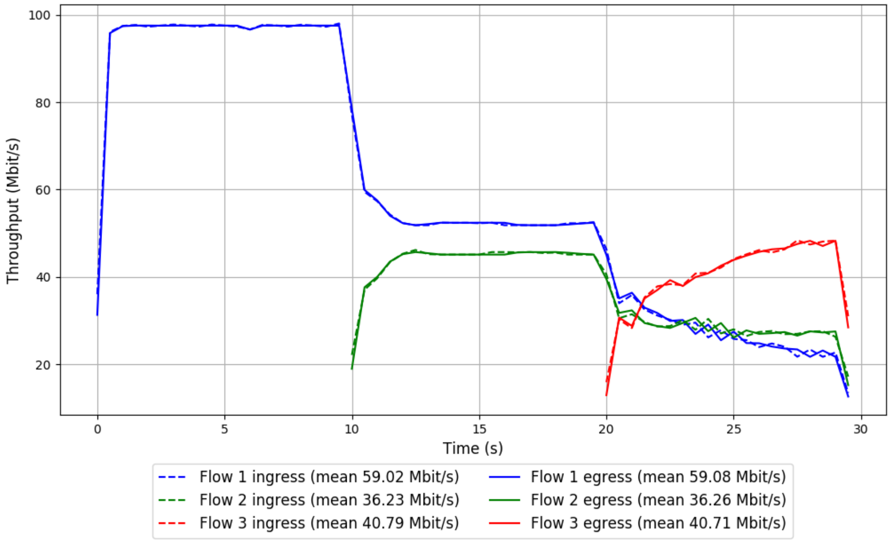
Run 10: Report of CalibratedKoho — Data Link

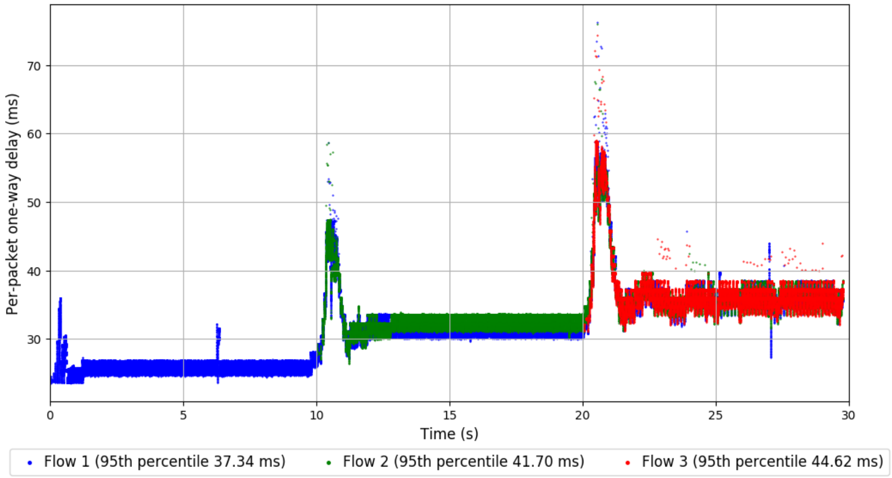




```
Run 1: Statistics of Indigo

Start at: 2017-10-12 03:36:23
End at: 2017-10-12 03:36:53
Local clock offset: -0.173 ms
Remote clock offset: -0.734 ms

# Below is generated by plot.py at 2017-10-12 10:22:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.45 Mbit/s
95th percentile per-packet one-way delay: 38.493 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 59.08 Mbit/s
95th percentile per-packet one-way delay: 37.339 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 36.26 Mbit/s
95th percentile per-packet one-way delay: 41.697 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 40.71 Mbit/s
95th percentile per-packet one-way delay: 44.615 ms
Loss rate: 0.81%
```

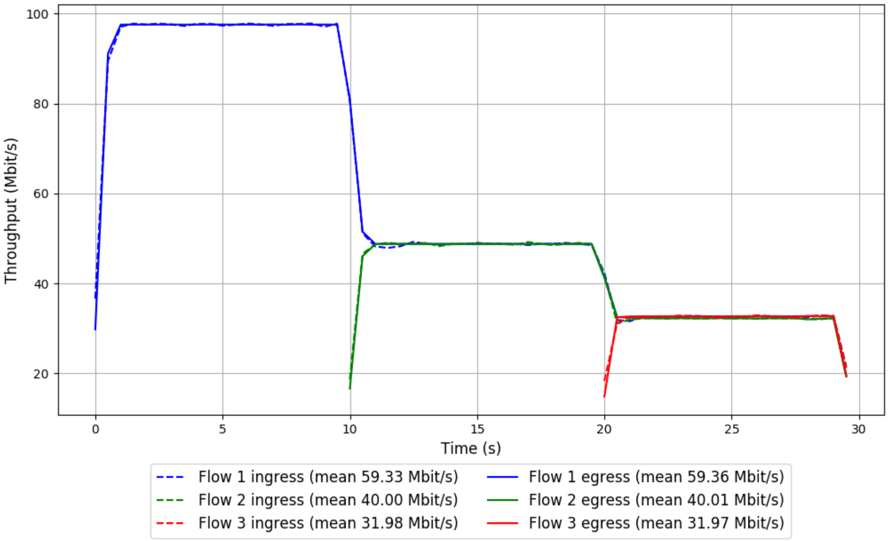
Run 1: Report of Indigo — Data Link

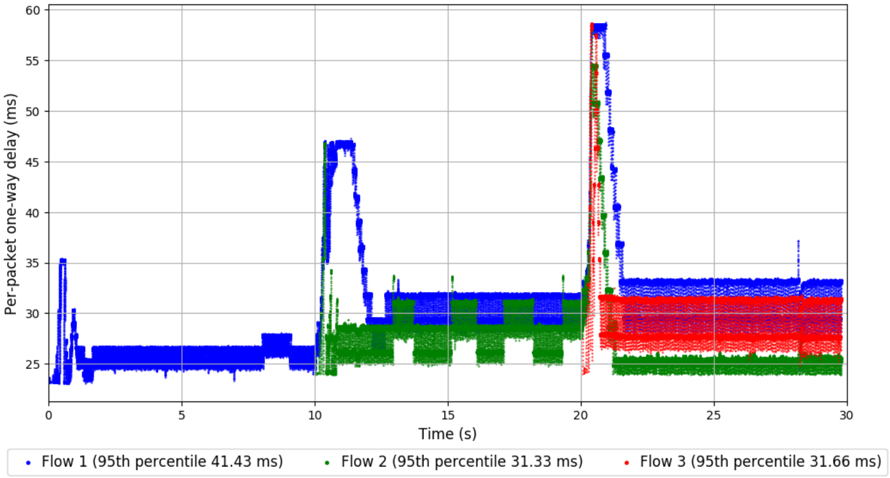




```
Run 2: Statistics of Indigo

Start at: 2017-10-12 03:55:25
End at: 2017-10-12 03:55:55
Local clock offset: -0.317 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2017-10-12 10:22:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.36 Mbit/s
95th percentile per-packet one-way delay: 36.584 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 59.36 Mbit/s
95th percentile per-packet one-way delay: 41.428 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 40.01 Mbit/s
95th percentile per-packet one-way delay: 31.327 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 31.97 Mbit/s
95th percentile per-packet one-way delay: 31.664 ms
Loss rate: 0.61%
```

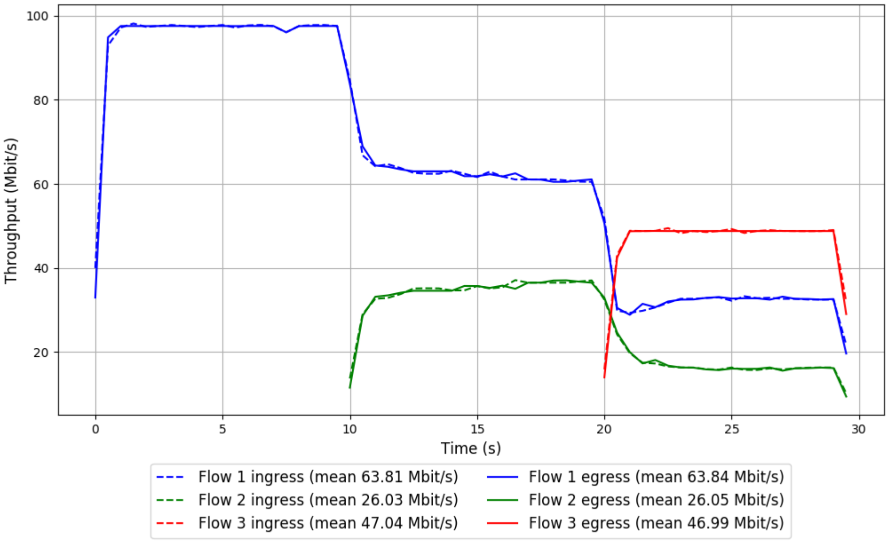
Run 2: Report of Indigo — Data Link

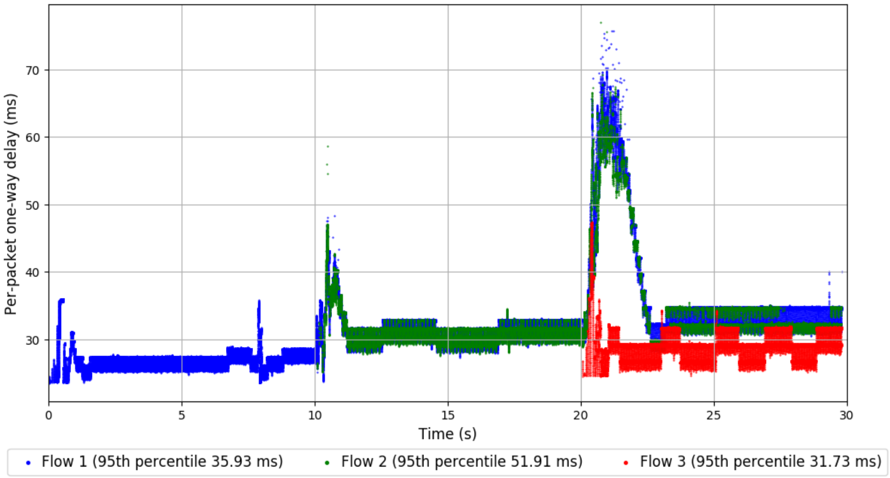




```
Run 3: Statistics of Indigo

Start at: 2017-10-12 04:14:30
End at: 2017-10-12 04:15:00
Local clock offset: -0.319 ms
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2017-10-12 10:22:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.40 Mbit/s
95th percentile per-packet one-way delay: 37.091 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 63.84 Mbit/s
95th percentile per-packet one-way delay: 35.929 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 26.05 Mbit/s
95th percentile per-packet one-way delay: 51.906 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 46.99 Mbit/s
95th percentile per-packet one-way delay: 31.734 ms
Loss rate: 0.65%
```

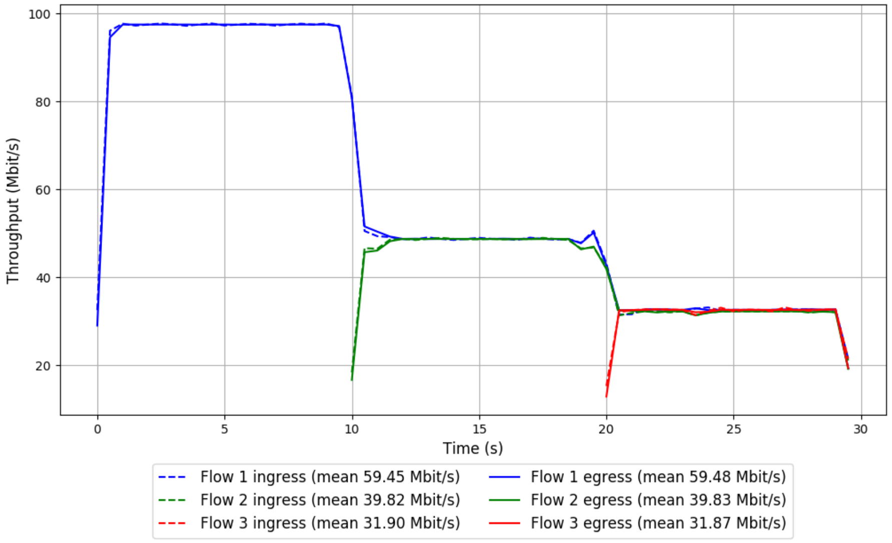
Run 3: Report of Indigo — Data Link

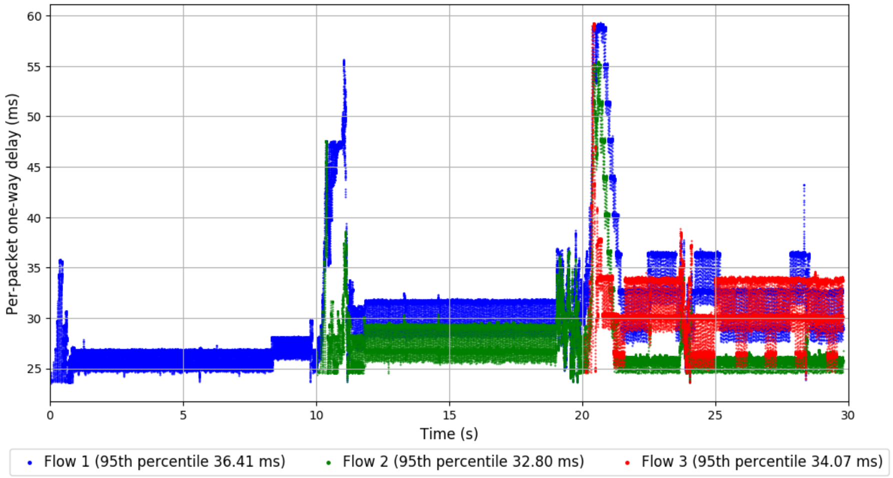




```
Run 4: Statistics of Indigo

Start at: 2017-10-12 04:33:34
End at: 2017-10-12 04:34:04
Local clock offset: -0.182 ms
Remote clock offset: 0.614 ms

# Below is generated by plot.py at 2017-10-12 10:22:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.29 Mbit/s
95th percentile per-packet one-way delay: 36.257 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 59.48 Mbit/s
95th percentile per-packet one-way delay: 36.410 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 39.83 Mbit/s
95th percentile per-packet one-way delay: 32.804 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 31.87 Mbit/s
95th percentile per-packet one-way delay: 34.070 ms
Loss rate: 0.67%
```

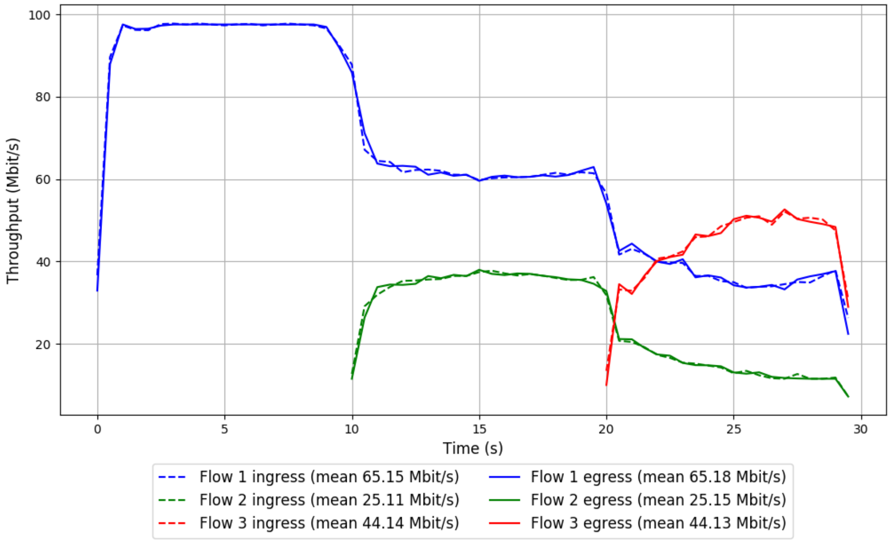
Run 4: Report of Indigo — Data Link

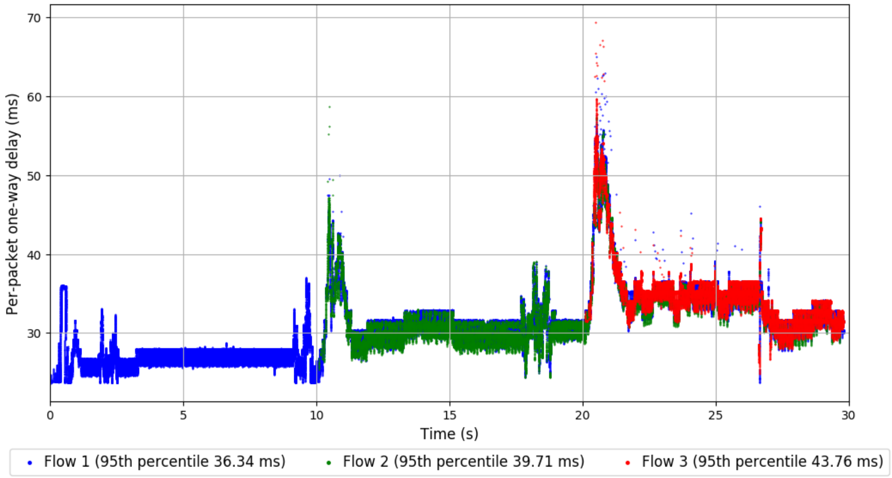




```
Run 5: Statistics of Indigo

Start at: 2017-10-12 04:52:42
End at: 2017-10-12 04:53:12
Local clock offset: -0.396 ms
Remote clock offset: 0.963 ms

# Below is generated by plot.py at 2017-10-12 10:22:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.16 Mbit/s
95th percentile per-packet one-way delay: 37.348 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 65.18 Mbit/s
95th percentile per-packet one-way delay: 36.339 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 25.15 Mbit/s
95th percentile per-packet one-way delay: 39.708 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 44.13 Mbit/s
95th percentile per-packet one-way delay: 43.755 ms
Loss rate: 0.67%
```

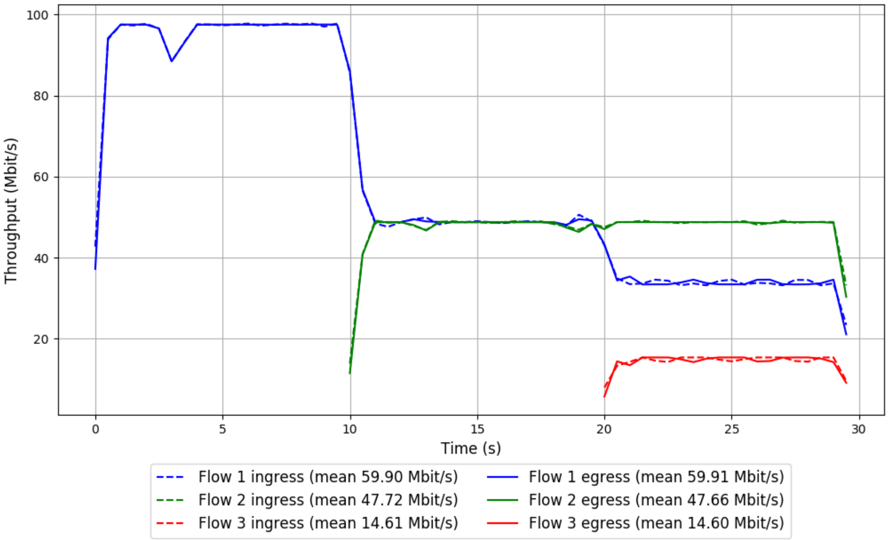
Run 5: Report of Indigo — Data Link

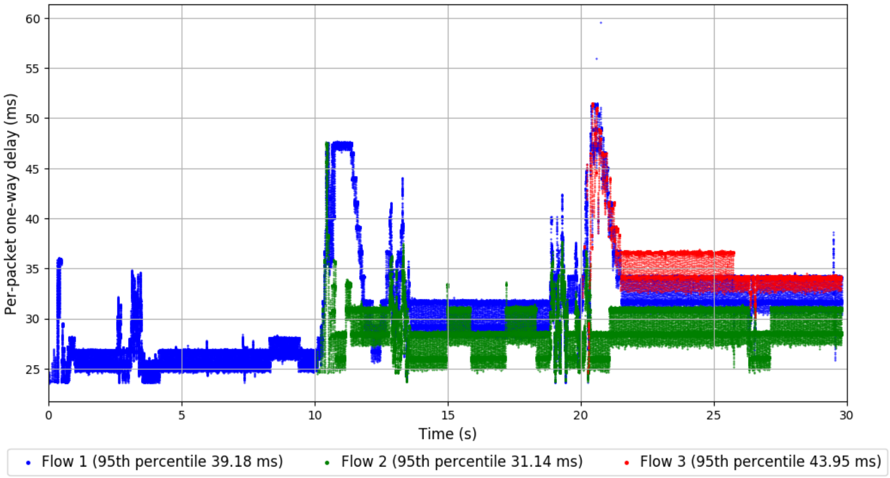




```
Run 6: Statistics of Indigo

Start at: 2017-10-12 05:11:56
End at: 2017-10-12 05:12:26
Local clock offset: -0.614 ms
Remote clock offset: 1.122 ms

# Below is generated by plot.py at 2017-10-12 10:23:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.18 Mbit/s
95th percentile per-packet one-way delay: 36.625 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 59.91 Mbit/s
95th percentile per-packet one-way delay: 39.178 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 47.66 Mbit/s
95th percentile per-packet one-way delay: 31.142 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 14.60 Mbit/s
95th percentile per-packet one-way delay: 43.953 ms
Loss rate: 0.69%
```

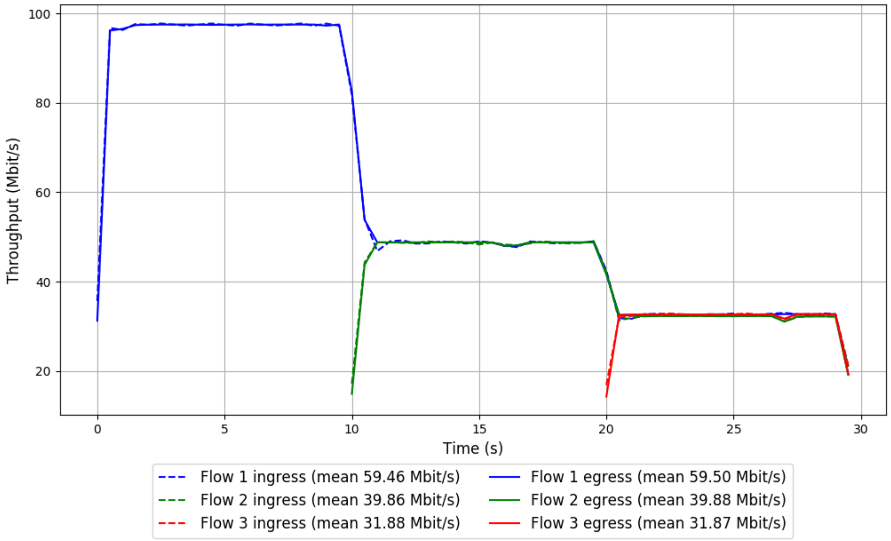
Run 6: Report of Indigo — Data Link

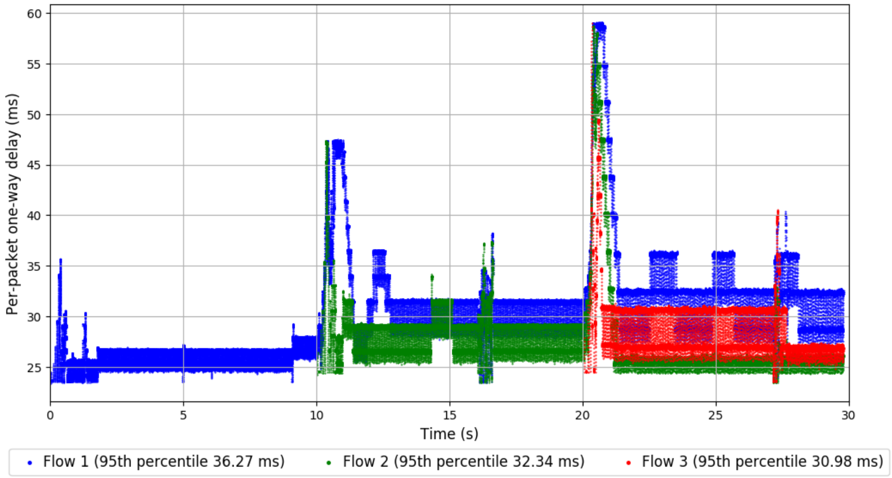




```
Run 7: Statistics of Indigo

Start at: 2017-10-12 05:31:15
End at: 2017-10-12 05:31:45
Local clock offset: -0.322 ms
Remote clock offset: 1.245 ms

# Below is generated by plot.py at 2017-10-12 10:23:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.36 Mbit/s
95th percentile per-packet one-way delay: 36.080 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 59.50 Mbit/s
95th percentile per-packet one-way delay: 36.271 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 39.88 Mbit/s
95th percentile per-packet one-way delay: 32.342 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 31.87 Mbit/s
95th percentile per-packet one-way delay: 30.984 ms
Loss rate: 0.58%
```

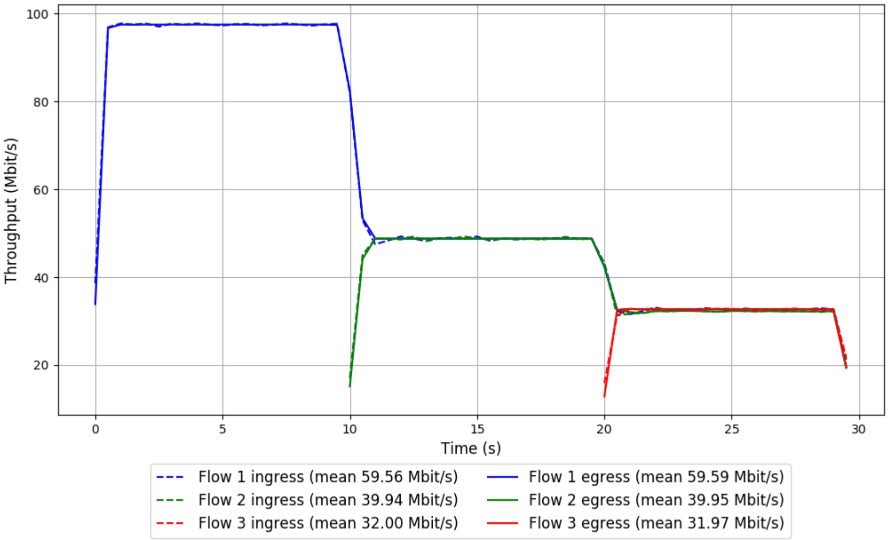
Run 7: Report of Indigo — Data Link

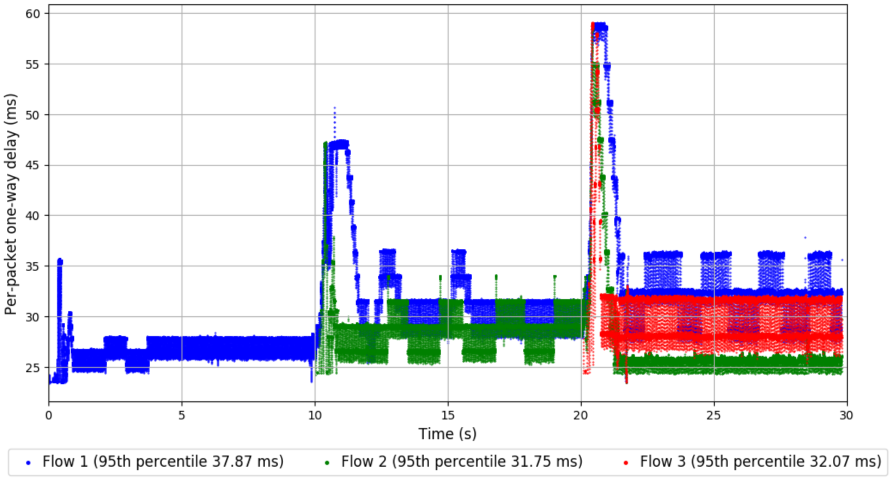




```
Run 8: Statistics of Indigo

Start at: 2017-10-12 05:50:21
End at: 2017-10-12 05:50:51
Local clock offset: -0.14 ms
Remote clock offset: 0.535 ms

# Below is generated by plot.py at 2017-10-12 10:23:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.51 Mbit/s
95th percentile per-packet one-way delay: 36.409 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 59.59 Mbit/s
95th percentile per-packet one-way delay: 37.871 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 39.95 Mbit/s
95th percentile per-packet one-way delay: 31.748 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 31.97 Mbit/s
95th percentile per-packet one-way delay: 32.071 ms
Loss rate: 0.63%
```

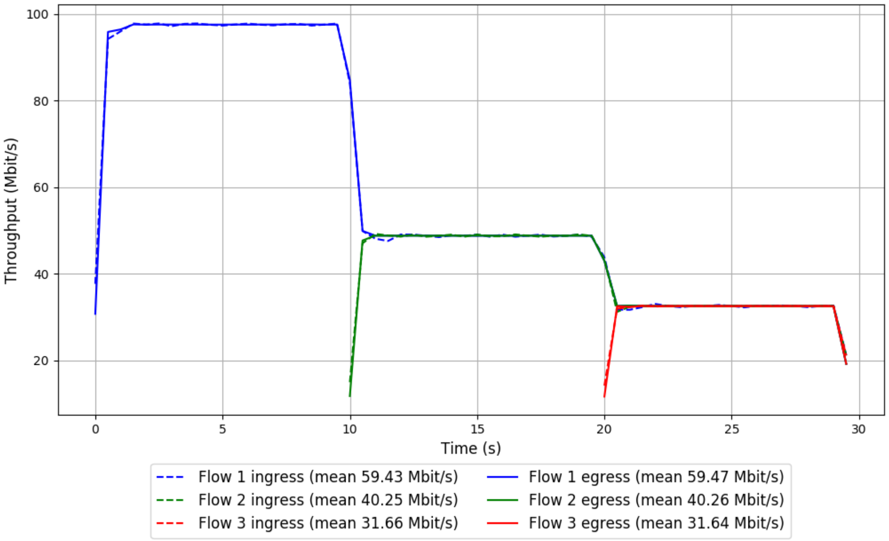
Run 8: Report of Indigo — Data Link

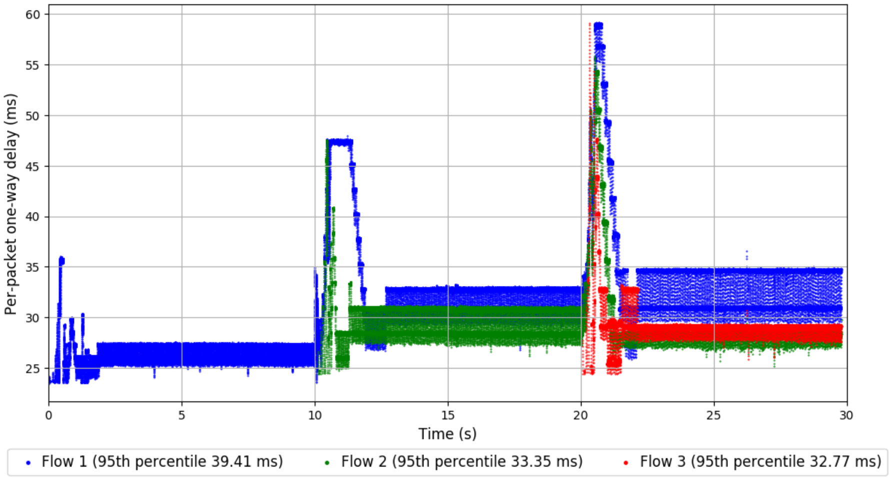




```
Run 9: Statistics of Indigo

Start at: 2017-10-12 06:09:31
End at: 2017-10-12 06:10:01
Local clock offset: 0.068 ms
Remote clock offset: -0.451 ms

# Below is generated by plot.py at 2017-10-12 10:23:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.42 Mbit/s
95th percentile per-packet one-way delay: 35.736 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 59.47 Mbit/s
95th percentile per-packet one-way delay: 39.407 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 40.26 Mbit/s
95th percentile per-packet one-way delay: 33.350 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 31.64 Mbit/s
95th percentile per-packet one-way delay: 32.772 ms
Loss rate: 0.62%
```

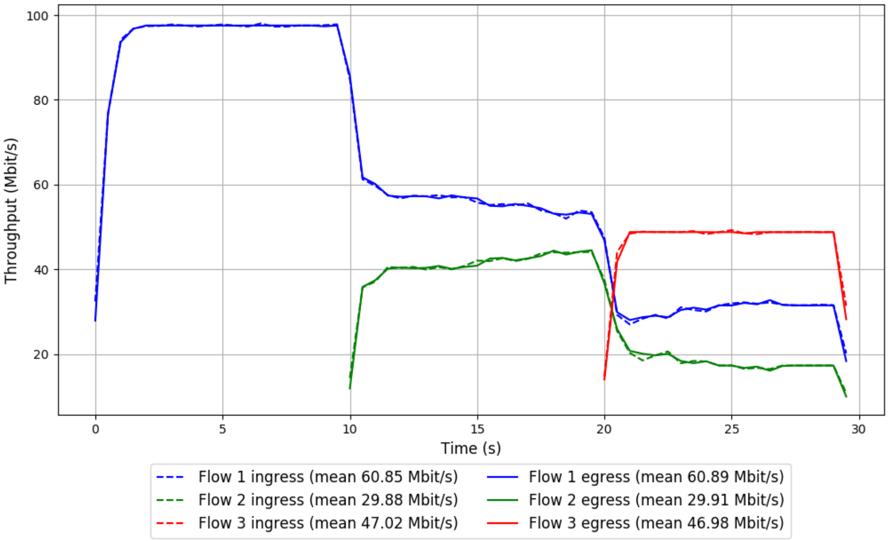
Run 9: Report of Indigo — Data Link



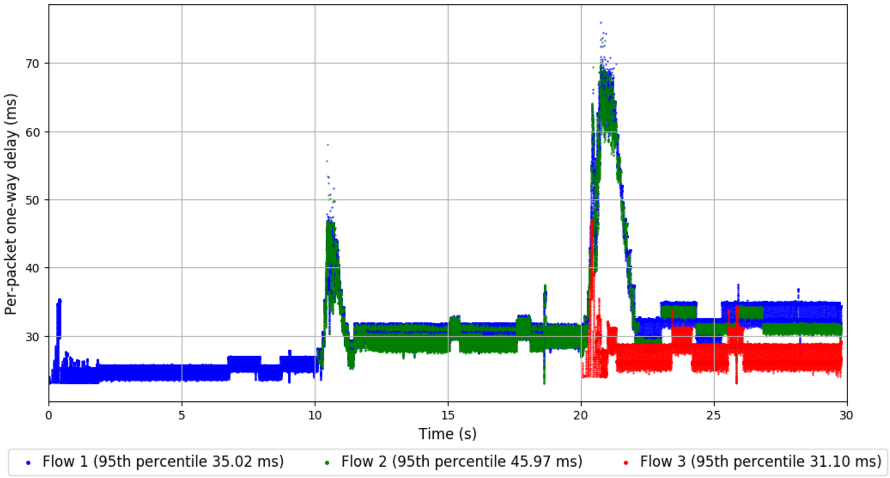


```
Run 10: Statistics of Indigo

Start at: 2017-10-12 06:28:36
End at: 2017-10-12 06:29:06
Local clock offset: 0.048 ms
Remote clock offset: -0.84 ms

# Below is generated by plot.py at 2017-10-12 10:23:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 35.598 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 60.89 Mbit/s
95th percentile per-packet one-way delay: 35.020 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 29.91 Mbit/s
95th percentile per-packet one-way delay: 45.970 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 46.98 Mbit/s
95th percentile per-packet one-way delay: 31.102 ms
Loss rate: 0.62%
```

Run 10: Report of Indigo — Data Link



Throughput (Mbit/s)
100
80
60
40
20
0
5
10
15
20
25
30
Time (s)
Flow 1 ingress (mean 60.85 Mbit/s)
Flow 1 egress (mean 60.89 Mbit/s)
Flow 2 ingress (mean 29.88 Mbit/s)
Flow 2 egress (mean 29.91 Mbit/s)
Flow 3 ingress (mean 47.02 Mbit/s)
Flow 3 egress (mean 46.98 Mbit/s)



Per-packet one-way delay (ms)
70
60
50
40
30
0
5
10
15
20
25
30
Time (s)
Flow 1 (95th percentile 35.02 ms)
Flow 2 (95th percentile 45.97 ms)
Flow 3 (95th percentile 31.10 ms)