Pantheon Report

Generated at 2018-01-26 18:32:22 (UTC).

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

Repeated the test of 15 congestion control schemes 10 times.

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

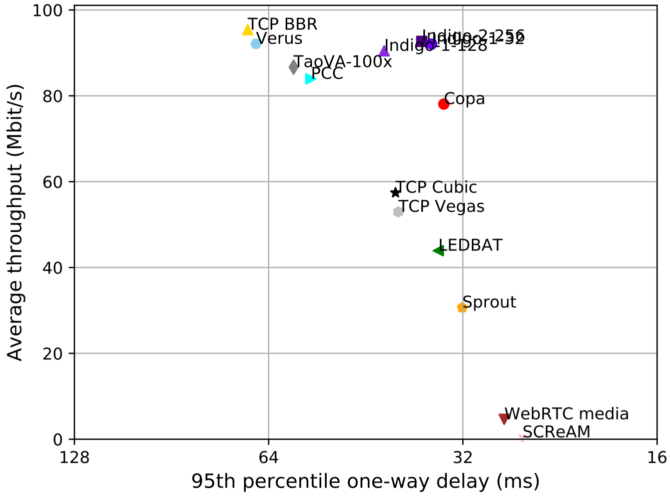
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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: master @ f23294ec38436c9f802847d477a41b7343ec76e6
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
 M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
 M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
 M receiver/src/buffer.h
 M receiver/src/core.cpp
 M sender/src/buffer.h
 M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
 M src/examples/cellsim.cc
 M src/examples/sproutbt2.cc
 M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
 M src/verus.hpp
 M tools/plot.py
third_party/vivace @ 423cbca3e8ea1d599e7b5cf725835e8a2b6bfac6
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from 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)



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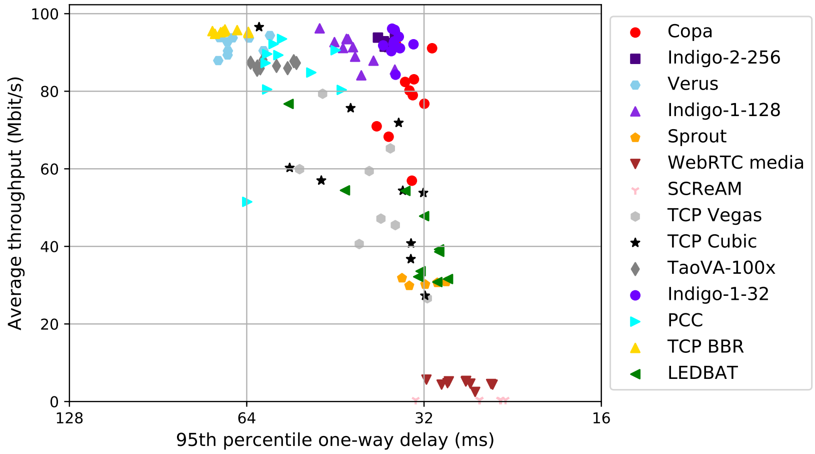
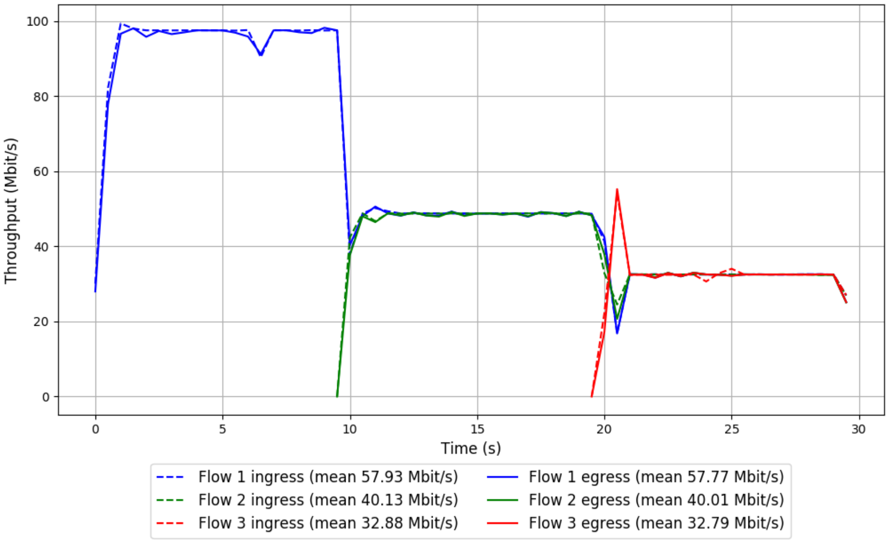
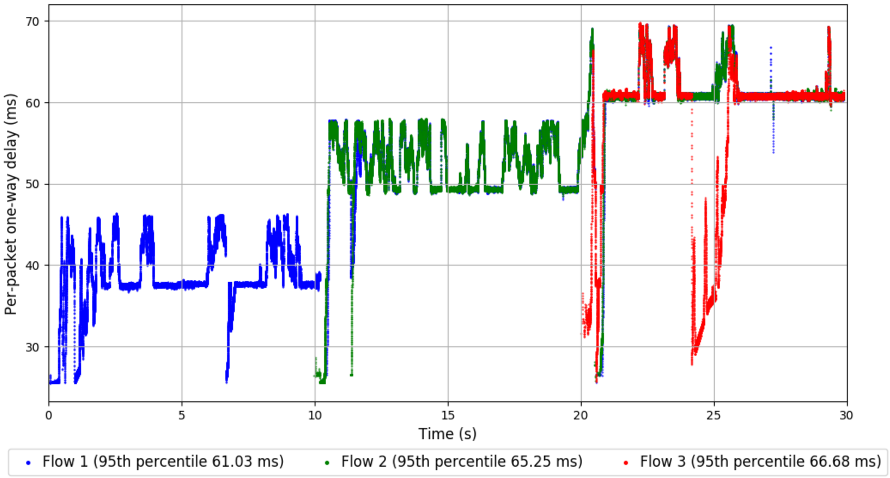


scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	58.67	41.89	26.66	62.15	62.99	72.96	0.47	0.62	1.19
TCP Cubic	10	28.47	26.10	34.90	37.04	42.06	43.58	0.32	0.40	0.67
LEDBAT	10	25.14	20.23	16.07	34.83	34.19	33.46	0.39	0.50	1.09
PCC	10	53.88	35.62	19.37	53.11	52.56	56.87	0.64	0.66	1.47
QUIC Cubic	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SCReAM	7	0.22	0.21	0.21	26.13	25.80	25.89	0.17	0.34	0.51
WebRTC media	10	2.37	1.67	0.62	27.56	27.71	27.49	0.32	0.44	0.58
Sprout	5	15.29	15.06	14.44	31.52	31.84	33.23	0.37	0.53	0.88
TaoVA-100x	10	53.65	38.85	28.51	51.21	59.33	60.28	0.48	0.60	1.29
TCP Vegas	8	28.81	26.37	25.41	665.74	38.69	40.35	0.22	0.45	0.60
Verus	10	57.06	36.51	32.61	62.47	65.85	62.32	0.51	0.65	1.13
Copa	10	49.58	33.01	25.72	34.31	35.73	32.90	0.44	0.54	1.10
Indigo-2-256	7	59.17	34.82	32.04	37.89	37.52	38.81	0.50	0.56	0.90
Indigo-1-32	10	58.76	36.03	28.89	35.70	35.75	39.82	0.38	0.42	0.82
Indigo-1-128	10	58.51	36.11	24.68	43.78	37.30	37.91	0.41	0.52	0.82

```
Run 1: Statistics of TCP BBR

Start at: 2018-01-26 10:39:15
End at: 2018-01-26 10:39:45
Local clock offset: 1.313 ms
Remote clock offset: -2.983 ms

# Below is generated by plot.py at 2018-01-26 18:14:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.32 Mbit/s
95th percentile per-packet one-way delay: 63.600 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 57.77 Mbit/s
95th percentile per-packet one-way delay: 61.035 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 40.01 Mbit/s
95th percentile per-packet one-way delay: 65.251 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 32.79 Mbit/s
95th percentile per-packet one-way delay: 66.684 ms
Loss rate: 1.02%
```

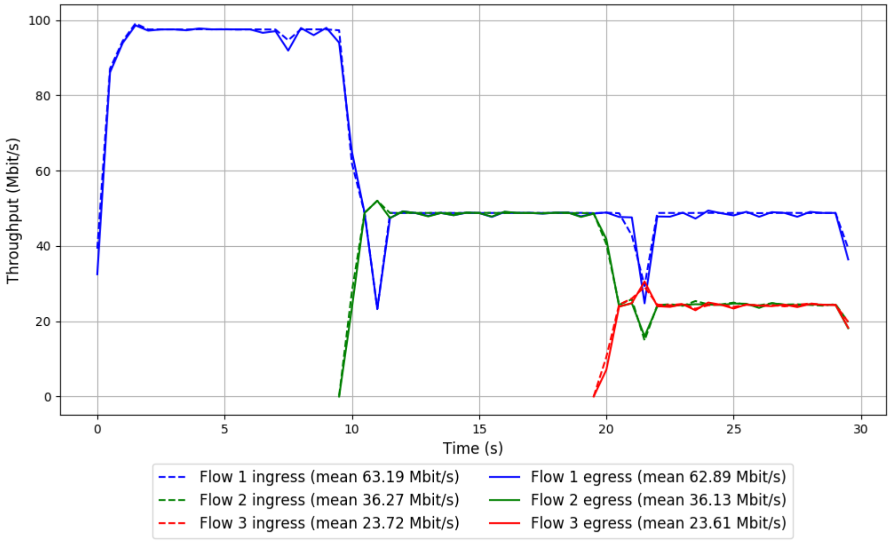
Run 1: Report of TCP BBR — Data Link

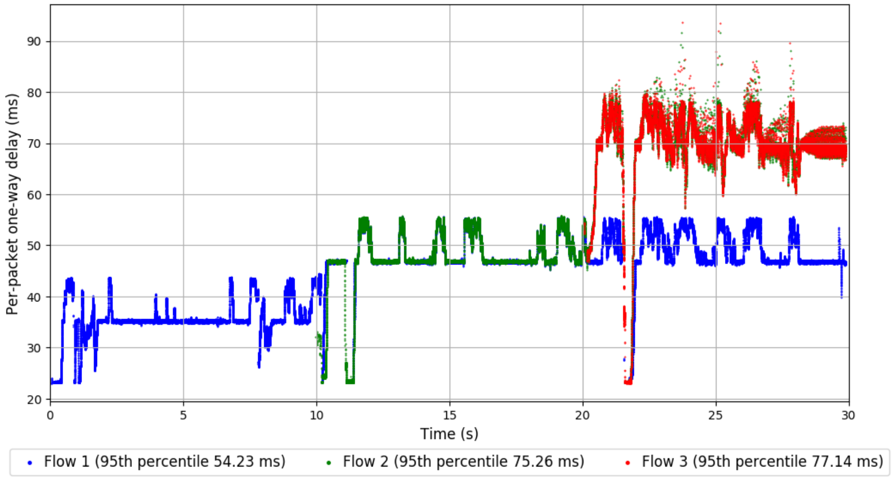




```
Run 2: Statistics of TCP BBR

Start at: 2018-01-26 11:01:19
End at: 2018-01-26 11:01:49
Local clock offset: 1.238 ms
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2018-01-26 18:14:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.80 Mbit/s
95th percentile per-packet one-way delay: 72.451 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 62.89 Mbit/s
95th percentile per-packet one-way delay: 54.225 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 36.13 Mbit/s
95th percentile per-packet one-way delay: 75.261 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 23.61 Mbit/s
95th percentile per-packet one-way delay: 77.138 ms
Loss rate: 1.46%
```

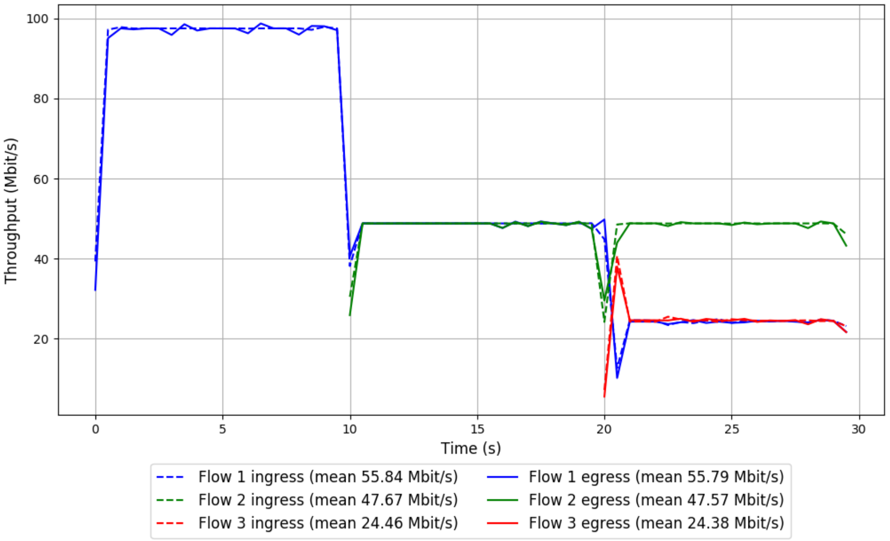
Run 2: Report of TCP BBR — Data Link

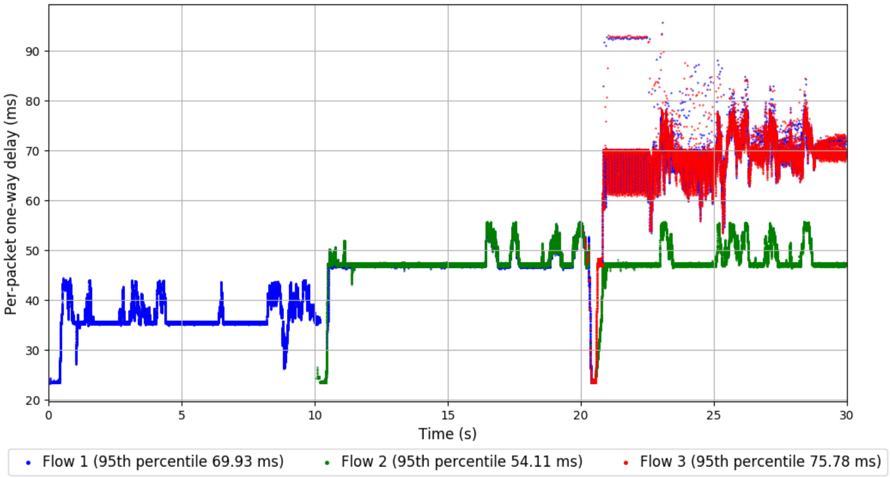




```
Run 3: Statistics of TCP BBR

Start at: 2018-01-26 11:23:26
End at: 2018-01-26 11:23:56
Local clock offset: 1.247 ms
Remote clock offset: -0.512 ms

# Below is generated by plot.py at 2018-01-26 18:14:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.49 Mbit/s
95th percentile per-packet one-way delay: 70.016 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 55.79 Mbit/s
95th percentile per-packet one-way delay: 69.926 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 47.57 Mbit/s
95th percentile per-packet one-way delay: 54.107 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 24.38 Mbit/s
95th percentile per-packet one-way delay: 75.775 ms
Loss rate: 1.16%
```

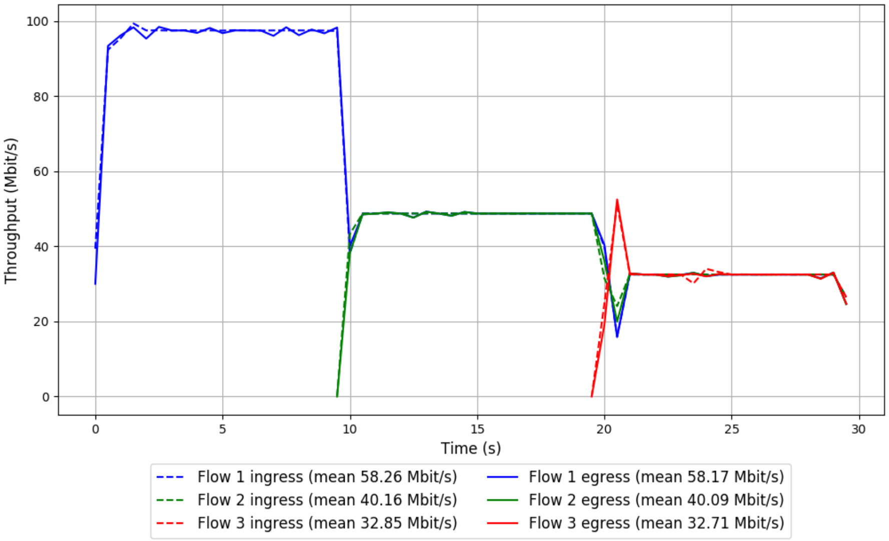
Run 3: Report of TCP BBR — Data Link

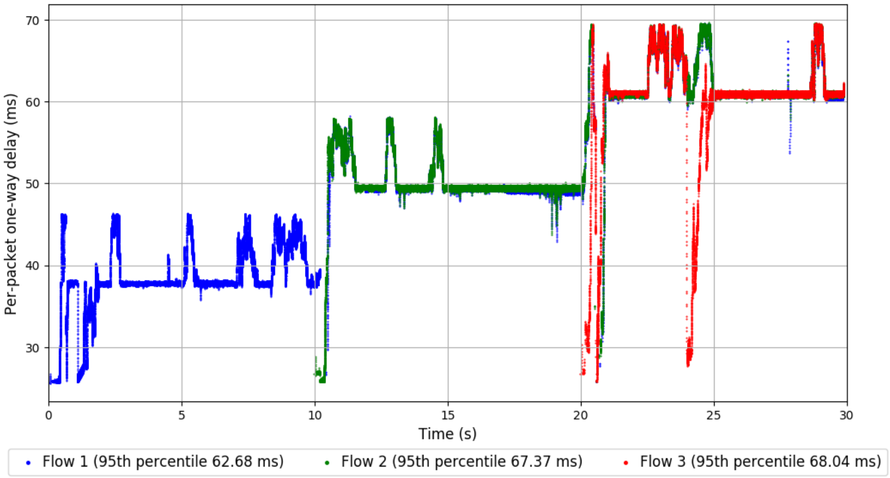




```
Run 4: Statistics of TCP BBR

Start at: 2018-01-26 11:45:17
End at: 2018-01-26 11:45:47
Local clock offset: 1.31 ms
Remote clock offset: -2.447 ms

# Below is generated by plot.py at 2018-01-26 18:14:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.76 Mbit/s
95th percentile per-packet one-way delay: 66.434 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 58.17 Mbit/s
95th percentile per-packet one-way delay: 62.682 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 40.09 Mbit/s
95th percentile per-packet one-way delay: 67.369 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 32.71 Mbit/s
95th percentile per-packet one-way delay: 68.036 ms
Loss rate: 1.11%
```

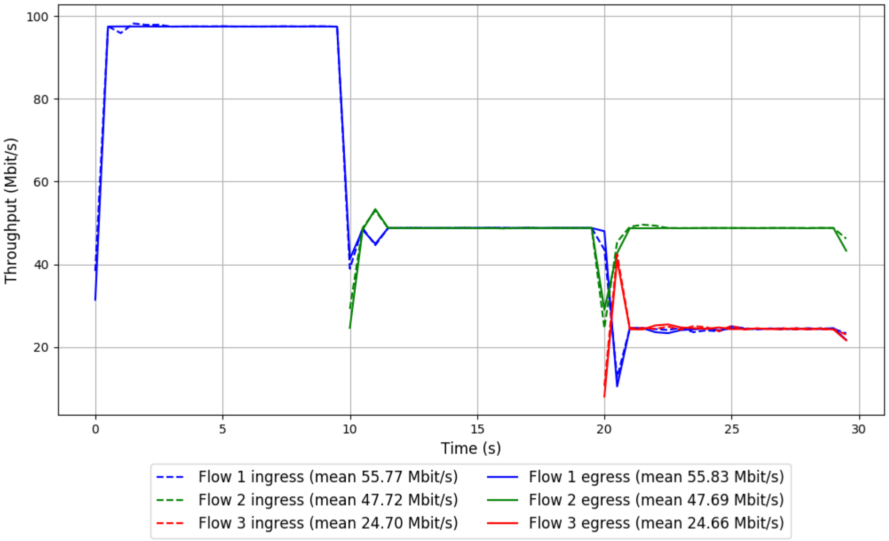
Run 4: Report of TCP BBR — Data Link

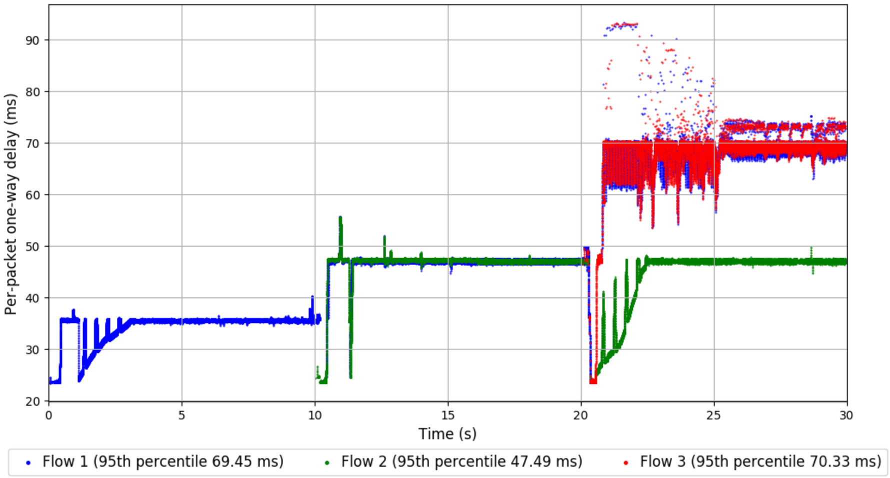




```
Run 5: Statistics of TCP BBR

Start at: 2018-01-26 12:07:14
End at: 2018-01-26 12:07:44
Local clock offset: 1.322 ms
Remote clock offset: 0.315 ms

# Below is generated by plot.py at 2018-01-26 18:14:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.70 Mbit/s
95th percentile per-packet one-way delay: 69.744 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 55.83 Mbit/s
95th percentile per-packet one-way delay: 69.453 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 47.69 Mbit/s
95th percentile per-packet one-way delay: 47.487 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 24.66 Mbit/s
95th percentile per-packet one-way delay: 70.330 ms
Loss rate: 0.98%
```

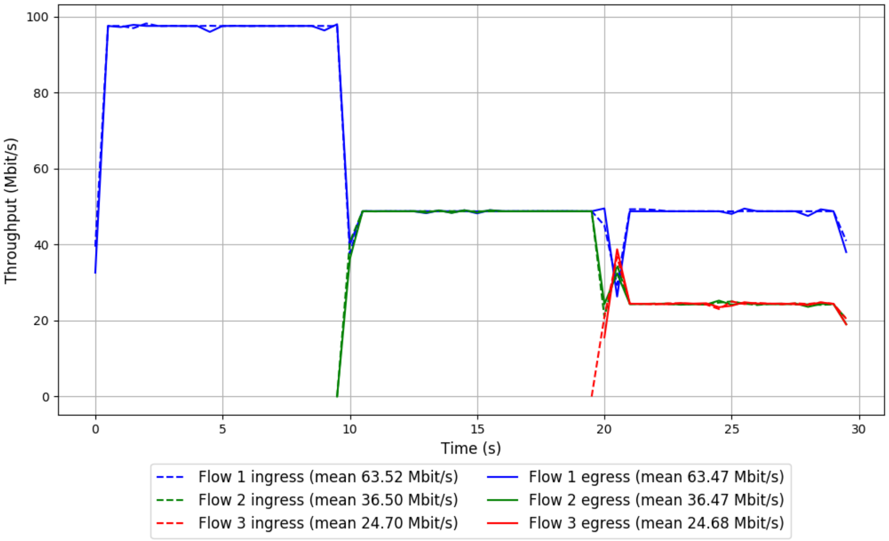
Run 5: Report of TCP BBR — Data Link

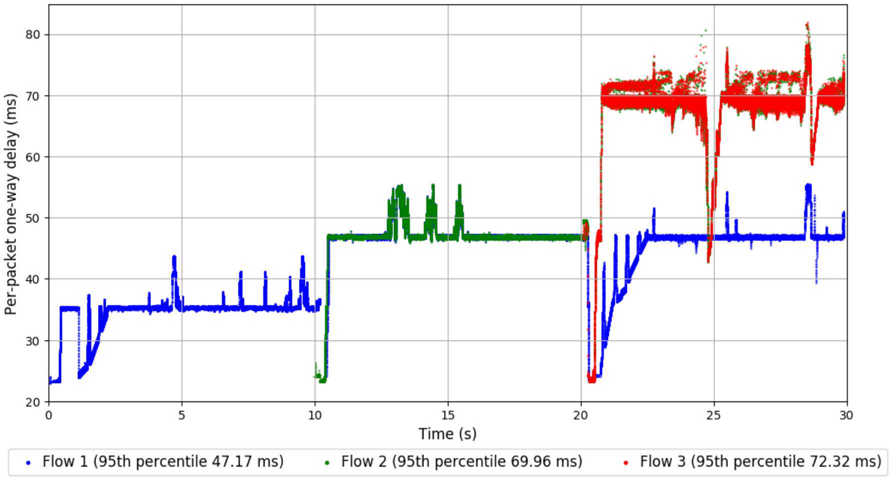




```
Run 6: Statistics of TCP BBR

Start at: 2018-01-26 12:28:59
End at: 2018-01-26 12:29:29
Local clock offset: 1.329 ms
Remote clock offset: 0.902 ms

# Below is generated by plot.py at 2018-01-26 18:14:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.95 Mbit/s
95th percentile per-packet one-way delay: 69.684 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 63.47 Mbit/s
95th percentile per-packet one-way delay: 47.166 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 36.47 Mbit/s
95th percentile per-packet one-way delay: 69.962 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 24.68 Mbit/s
95th percentile per-packet one-way delay: 72.321 ms
Loss rate: 1.06%
```

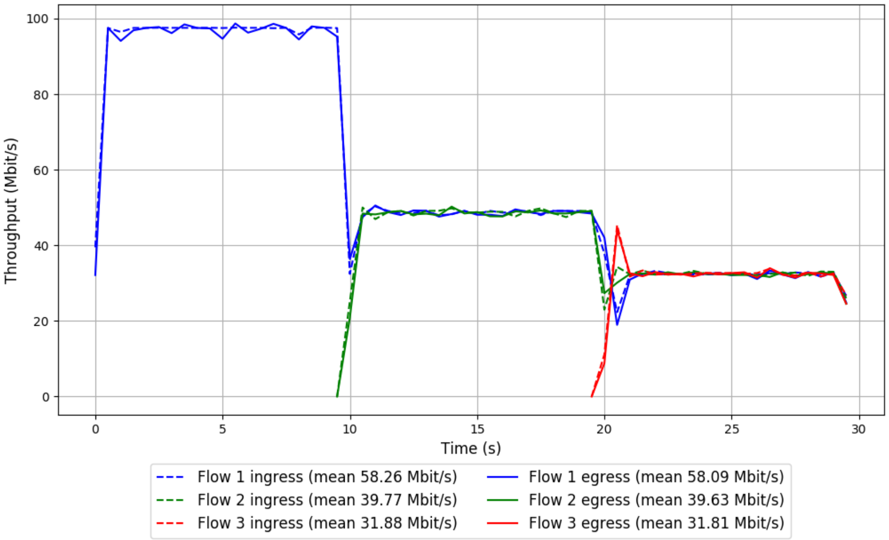
Run 6: Report of TCP BBR — Data Link

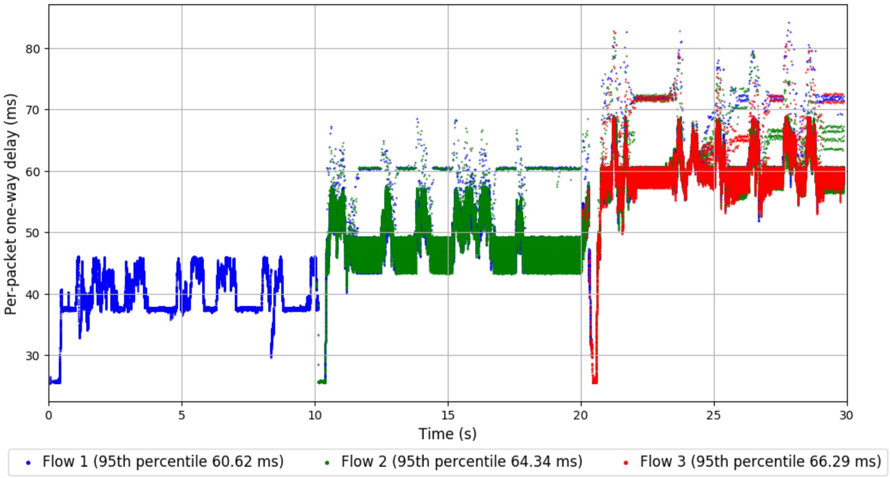




```
Run 7: Statistics of TCP BBR

Start at: 2018-01-26 12:50:57
End at: 2018-01-26 12:51:27
Local clock offset: 1.345 ms
Remote clock offset: -1.347 ms

# Below is generated by plot.py at 2018-01-26 18:14:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.02 Mbit/s
95th percentile per-packet one-way delay: 63.566 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 58.09 Mbit/s
95th percentile per-packet one-way delay: 60.623 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 39.63 Mbit/s
95th percentile per-packet one-way delay: 64.342 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 31.81 Mbit/s
95th percentile per-packet one-way delay: 66.291 ms
Loss rate: 1.24%
```

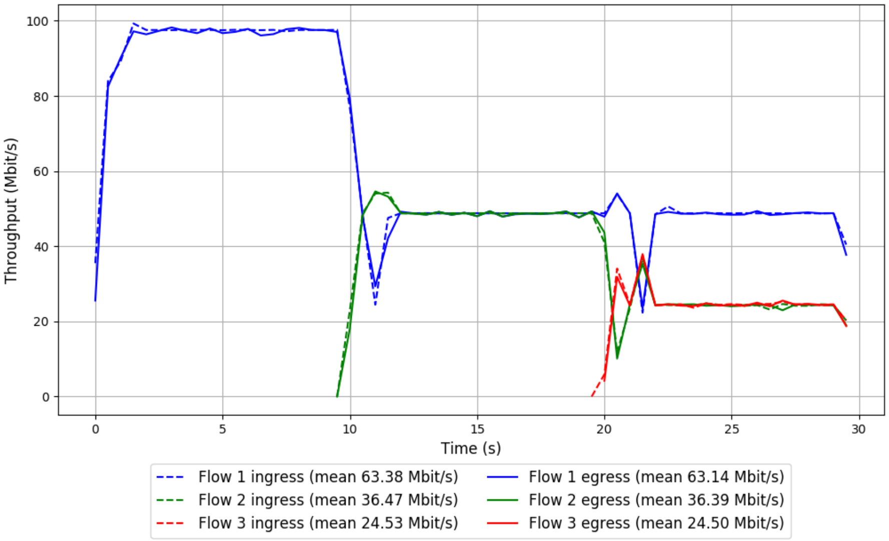
Run 7: Report of TCP BBR — Data Link

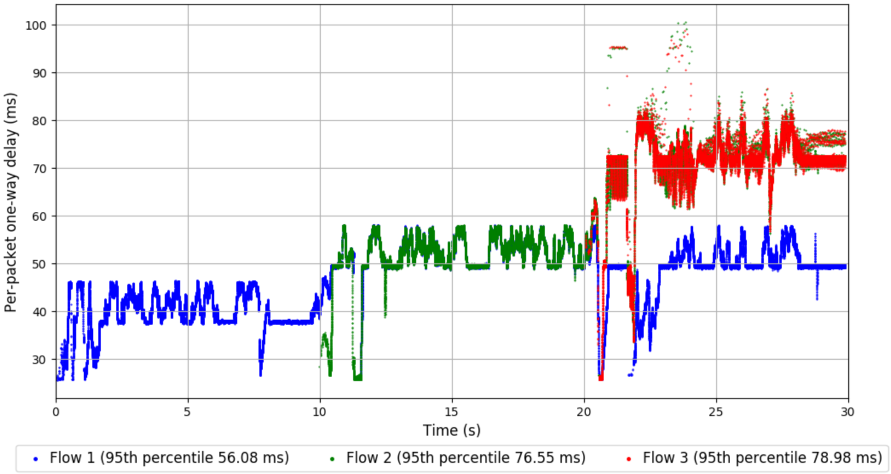




```
Run 8: Statistics of TCP BBR

Start at: 2018-01-26 13:13:11
End at: 2018-01-26 13:13:41
Local clock offset: 1.52 ms
Remote clock offset: -1.542 ms

# Below is generated by plot.py at 2018-01-26 18:14:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.51 Mbit/s
95th percentile per-packet one-way delay: 73.182 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 63.14 Mbit/s
95th percentile per-packet one-way delay: 56.084 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 36.39 Mbit/s
95th percentile per-packet one-way delay: 76.547 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 24.50 Mbit/s
95th percentile per-packet one-way delay: 78.976 ms
Loss rate: 1.16%
```

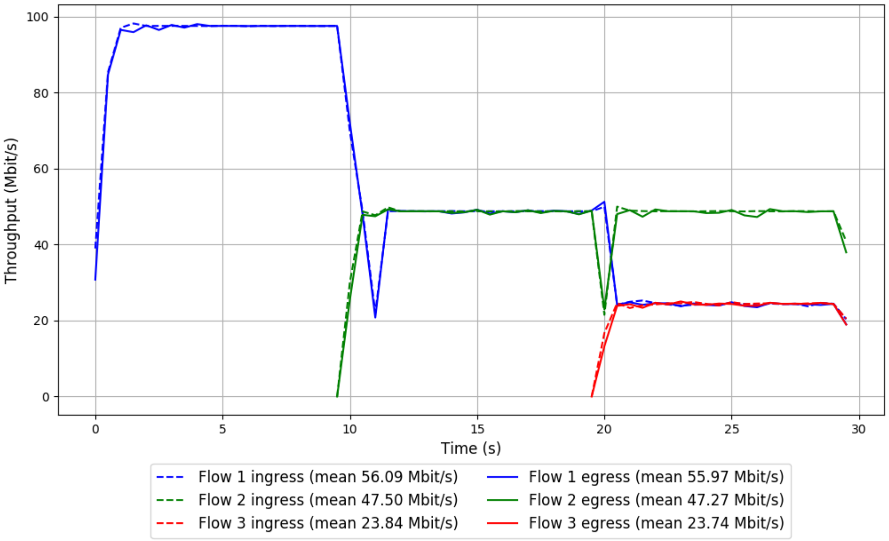
Run 8: Report of TCP BBR — Data Link

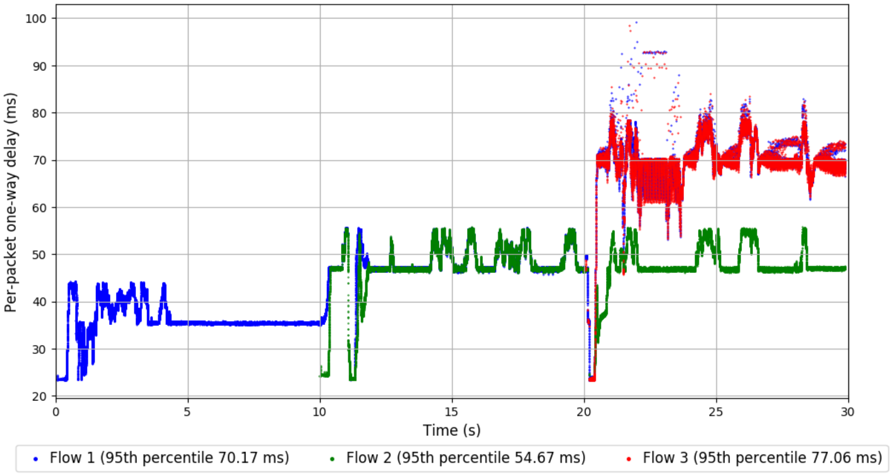




```
Run 9: Statistics of TCP BBR

Start at: 2018-01-26 13:35:37
End at: 2018-01-26 13:36:07
Local clock offset: 1.523 ms
Remote clock offset: 0.082 ms

# Below is generated by plot.py at 2018-01-26 18:15:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.35 Mbit/s
95th percentile per-packet one-way delay: 70.296 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 55.97 Mbit/s
95th percentile per-packet one-way delay: 70.167 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 47.27 Mbit/s
95th percentile per-packet one-way delay: 54.671 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 23.74 Mbit/s
95th percentile per-packet one-way delay: 77.056 ms
Loss rate: 1.40%
```

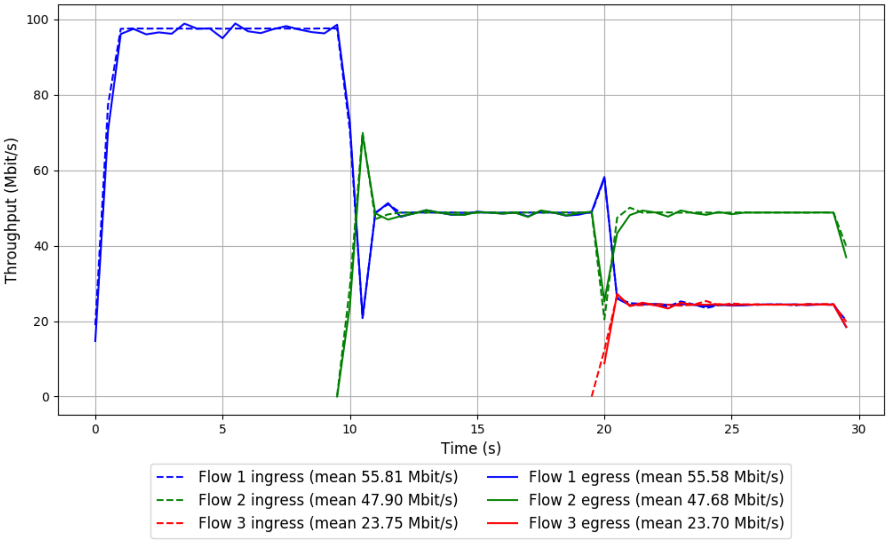
Run 9: Report of TCP BBR — Data Link

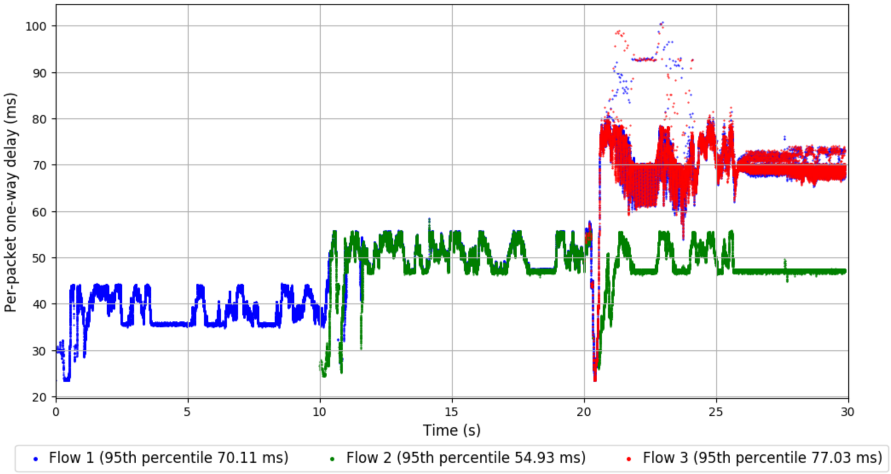




```
Run 10: Statistics of TCP BBR

Start at: 2018-01-26 13:57:33
End at: 2018-01-26 13:58:03
Local clock offset: 1.607 ms
Remote clock offset: -0.656 ms

# Below is generated by plot.py at 2018-01-26 18:15:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.21 Mbit/s
95th percentile per-packet one-way delay: 70.864 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 55.58 Mbit/s
95th percentile per-packet one-way delay: 70.111 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 47.68 Mbit/s
95th percentile per-packet one-way delay: 54.930 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 23.70 Mbit/s
95th percentile per-packet one-way delay: 77.033 ms
Loss rate: 1.26%
```

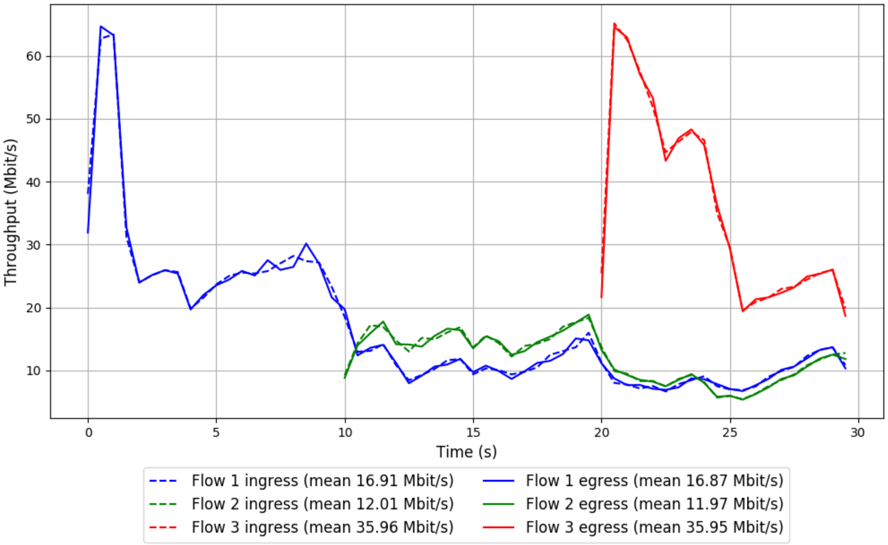
Run 10: Report of TCP BBR — Data Link

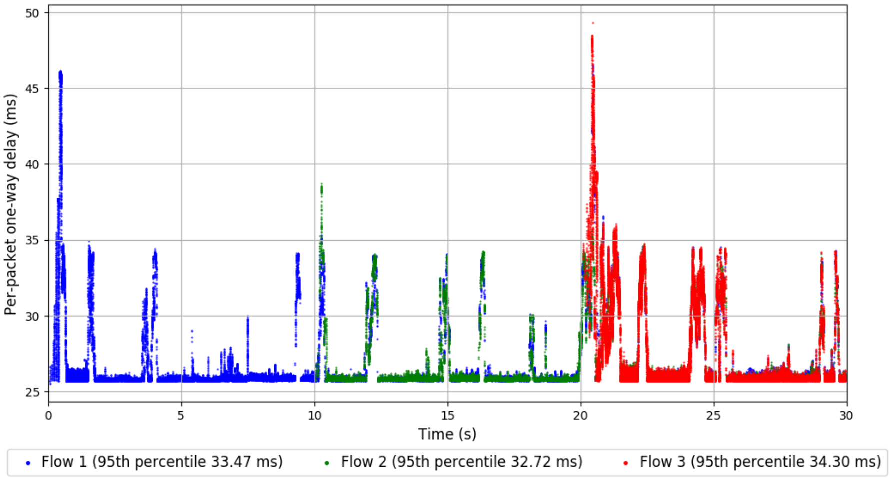




```
Run 1: Statistics of TCP Cubic

Start at: 2018-01-26 10:48:58
End at: 2018-01-26 10:49:28
Local clock offset: 1.401 ms
Remote clock offset: -2.867 ms

# Below is generated by plot.py at 2018-01-26 18:15:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.73 Mbit/s
95th percentile per-packet one-way delay: 33.694 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 16.87 Mbit/s
95th percentile per-packet one-way delay: 33.465 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 11.97 Mbit/s
95th percentile per-packet one-way delay: 32.719 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 35.95 Mbit/s
95th percentile per-packet one-way delay: 34.304 ms
Loss rate: 0.60%
```

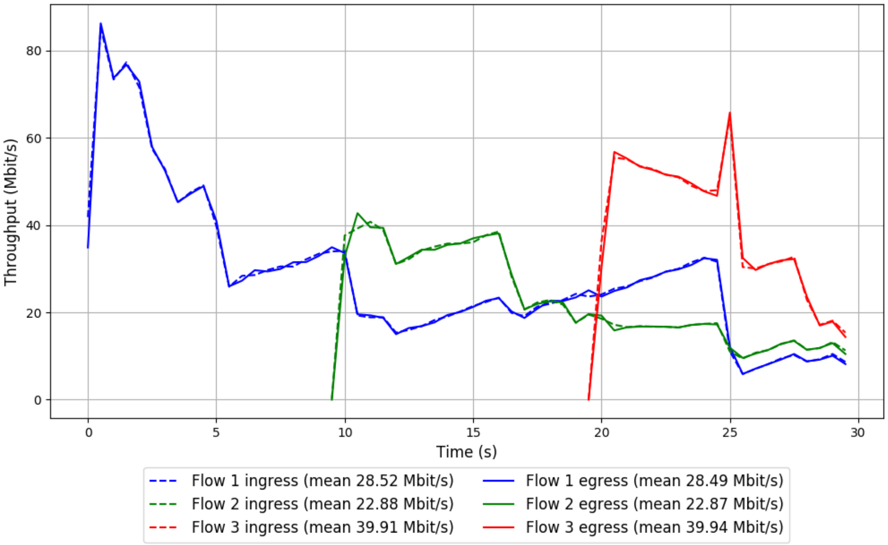
Run 1: Report of TCP Cubic — Data Link

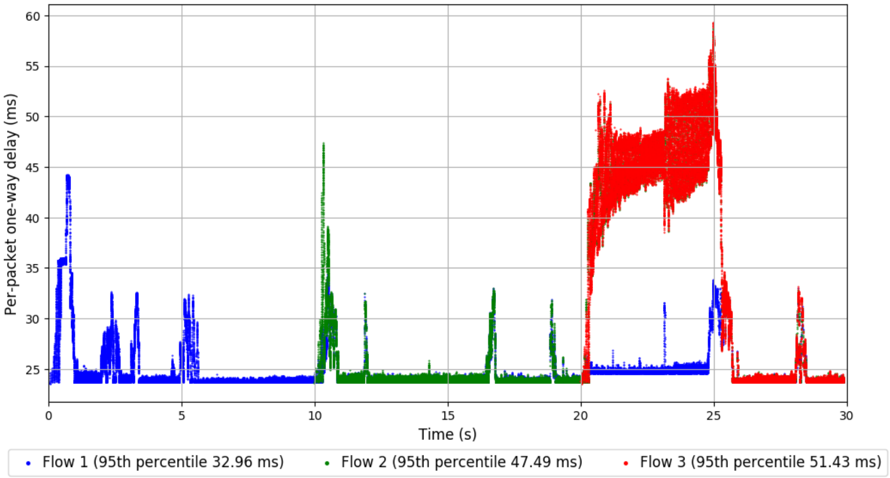




```
Run 2: Statistics of TCP Cubic

Start at: 2018-01-26 11:11:09
End at: 2018-01-26 11:11:39
Local clock offset: 1.301 ms
Remote clock offset: -0.702 ms

# Below is generated by plot.py at 2018-01-26 18:15:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 56.99 Mbit/s
95th percentile per-packet one-way delay: 47.817 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 28.49 Mbit/s
95th percentile per-packet one-way delay: 32.963 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 22.87 Mbit/s
95th percentile per-packet one-way delay: 47.490 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 39.94 Mbit/s
95th percentile per-packet one-way delay: 51.432 ms
Loss rate: 0.47%
```

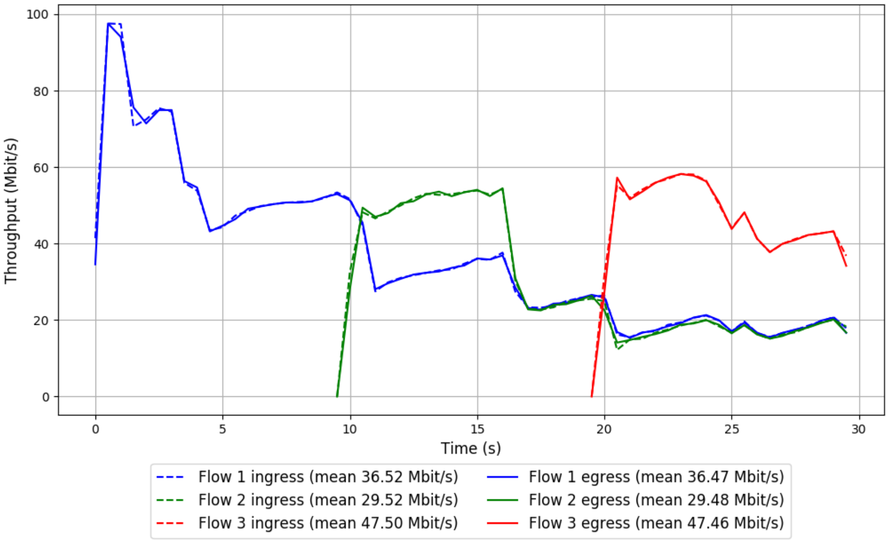
Run 2: Report of TCP Cubic — Data Link

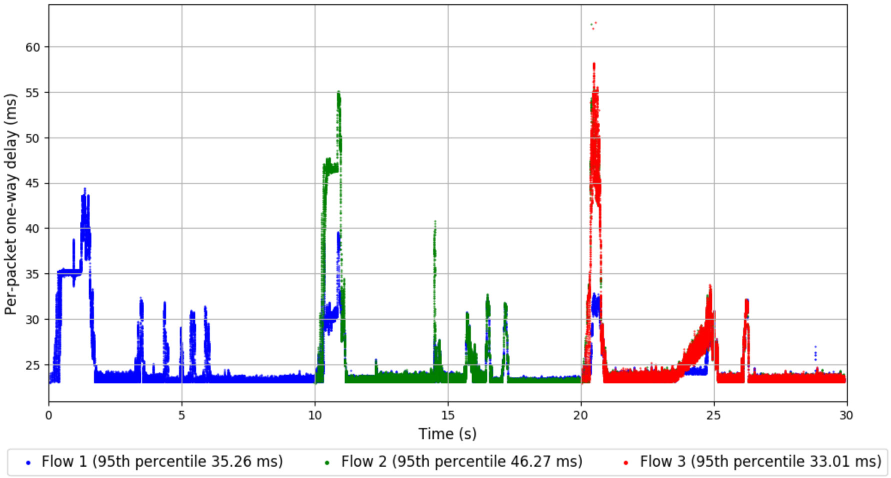




```
Run 3: Statistics of TCP Cubic

Start at: 2018-01-26 11:33:04
End at: 2018-01-26 11:33:34
Local clock offset: 1.29 ms
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2018-01-26 18:15:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.86 Mbit/s
95th percentile per-packet one-way delay: 35.333 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 36.47 Mbit/s
95th percentile per-packet one-way delay: 35.257 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 29.48 Mbit/s
95th percentile per-packet one-way delay: 46.272 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 47.46 Mbit/s
95th percentile per-packet one-way delay: 33.012 ms
Loss rate: 0.63%
```

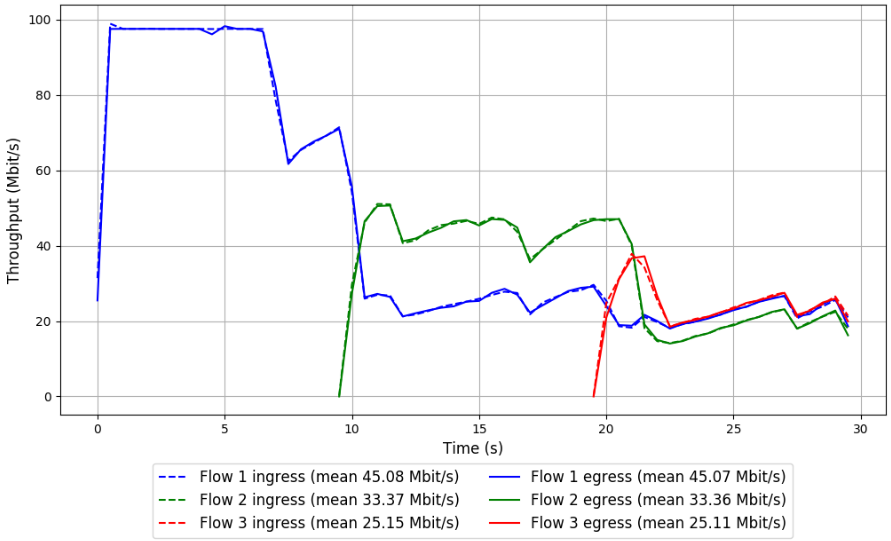
Run 3: Report of TCP Cubic — Data Link

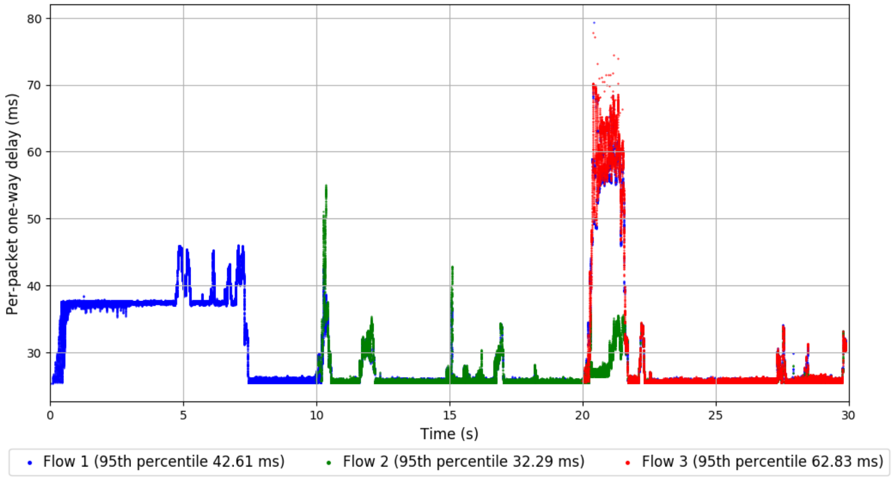




```
Run 4: Statistics of TCP Cubic

Start at: 2018-01-26 11:54:56
End at: 2018-01-26 11:55:26
Local clock offset: 1.189 ms
Remote clock offset: -2.067 ms

# Below is generated by plot.py at 2018-01-26 18:15:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.65 Mbit/s
95th percentile per-packet one-way delay: 42.635 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 45.07 Mbit/s
95th percentile per-packet one-way delay: 42.608 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 33.36 Mbit/s
95th percentile per-packet one-way delay: 32.286 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 25.11 Mbit/s
95th percentile per-packet one-way delay: 62.828 ms
Loss rate: 0.70%
```

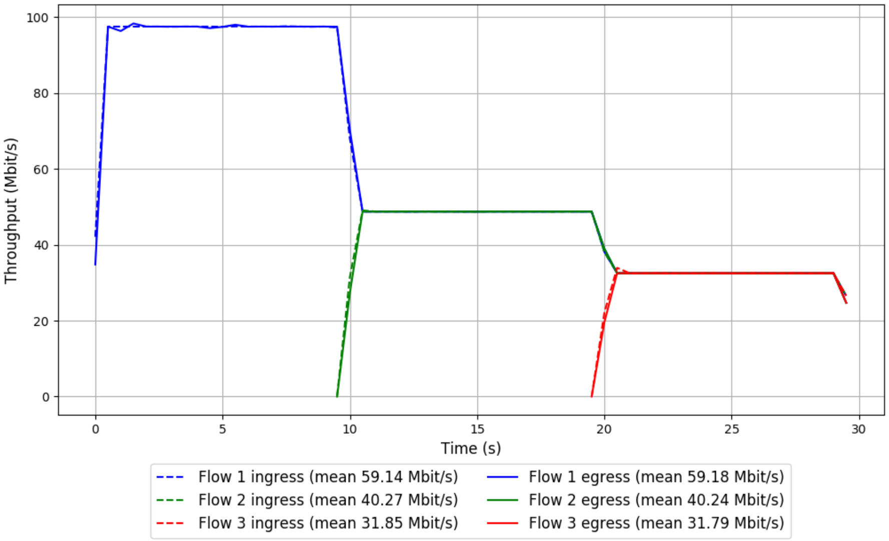
Run 4: Report of TCP Cubic — Data Link

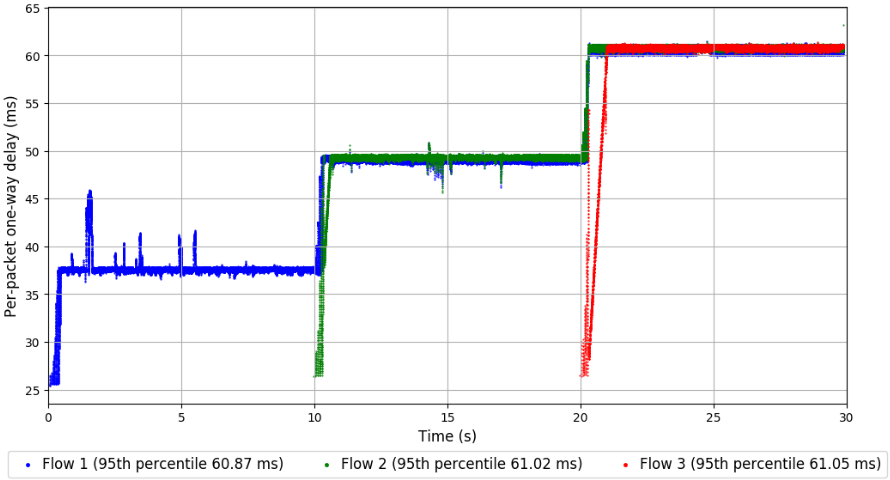




```
Run 5: Statistics of TCP Cubic

Start at: 2018-01-26 12:16:50
End at: 2018-01-26 12:17:20
Local clock offset: 1.332 ms
Remote clock offset: -1.642 ms

# Below is generated by plot.py at 2018-01-26 18:15:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.55 Mbit/s
95th percentile per-packet one-way delay: 60.981 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 59.18 Mbit/s
95th percentile per-packet one-way delay: 60.865 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 40.24 Mbit/s
95th percentile per-packet one-way delay: 61.023 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 31.79 Mbit/s
95th percentile per-packet one-way delay: 61.053 ms
Loss rate: 0.92%
```

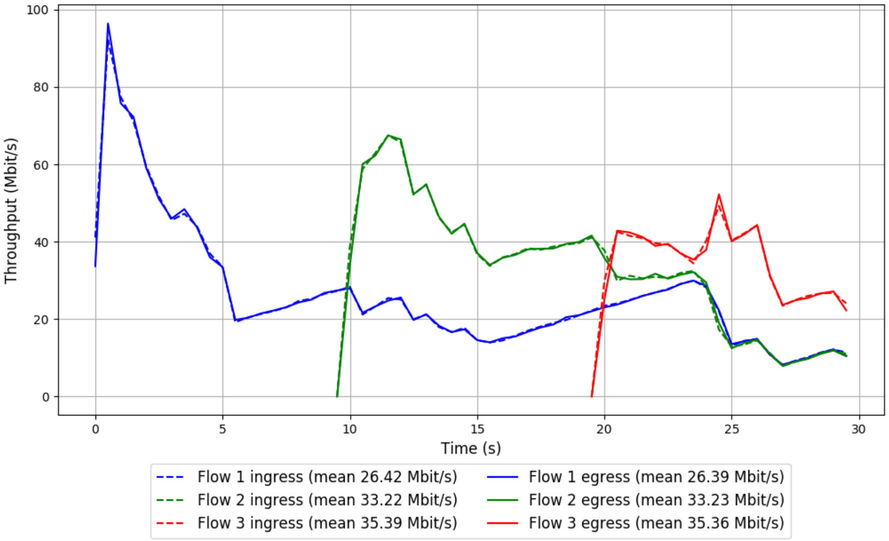
Run 5: Report of TCP Cubic — Data Link

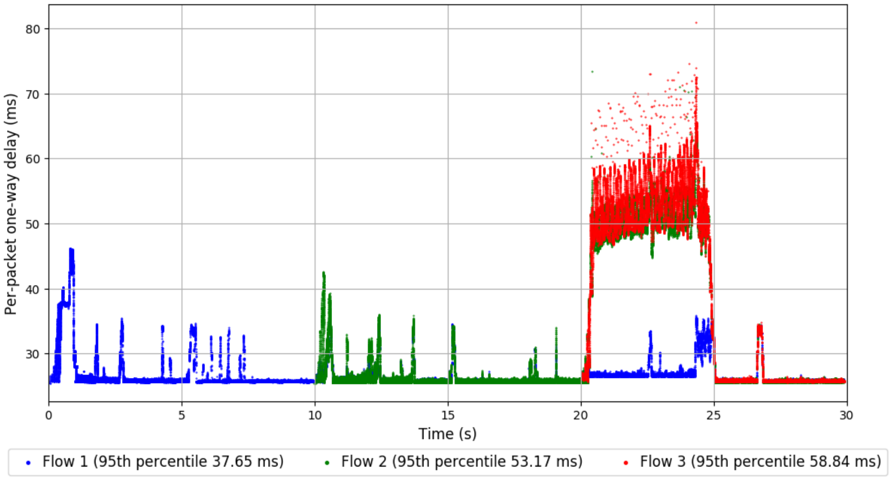




```
Run 6: Statistics of TCP Cubic

Start at: 2018-01-26 12:38:41
End at: 2018-01-26 12:39:11
Local clock offset: 1.332 ms
Remote clock offset: -1.513 ms

# Below is generated by plot.py at 2018-01-26 18:15:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.26 Mbit/s
95th percentile per-packet one-way delay: 54.110 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 26.39 Mbit/s
95th percentile per-packet one-way delay: 37.654 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 33.23 Mbit/s
95th percentile per-packet one-way delay: 53.169 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 35.36 Mbit/s
95th percentile per-packet one-way delay: 58.839 ms
Loss rate: 0.62%
```

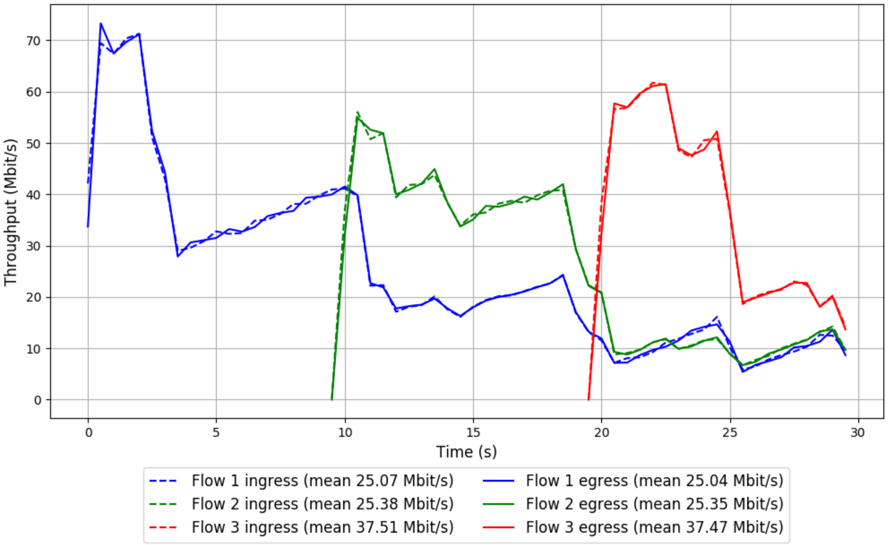
Run 6: Report of TCP Cubic — Data Link

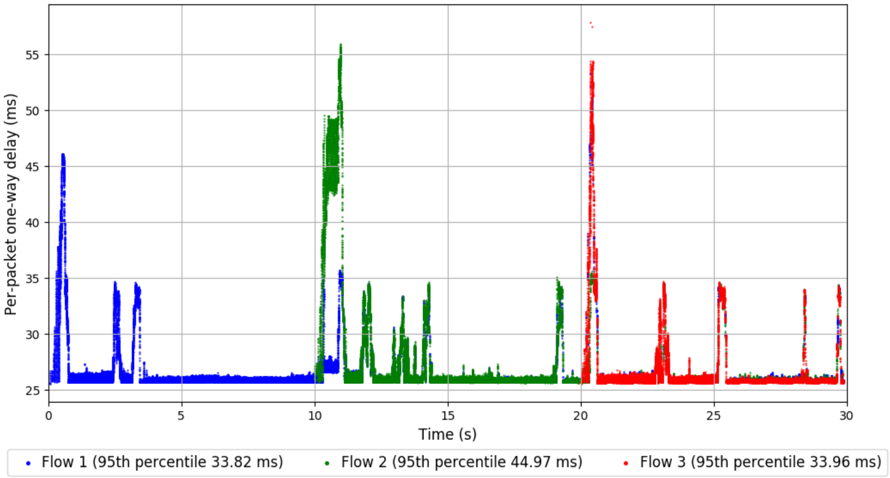




```
Run 7: Statistics of TCP Cubic

Start at: 2018-01-26 13:00:45
End at: 2018-01-26 13:01:15
Local clock offset: 1.453 ms
Remote clock offset: -1.398 ms

# Below is generated by plot.py at 2018-01-26 18:15:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.36 Mbit/s
95th percentile per-packet one-way delay: 34.773 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 25.04 Mbit/s
95th percentile per-packet one-way delay: 33.820 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 25.35 Mbit/s
95th percentile per-packet one-way delay: 44.967 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 37.47 Mbit/s
95th percentile per-packet one-way delay: 33.956 ms
Loss rate: 0.64%
```

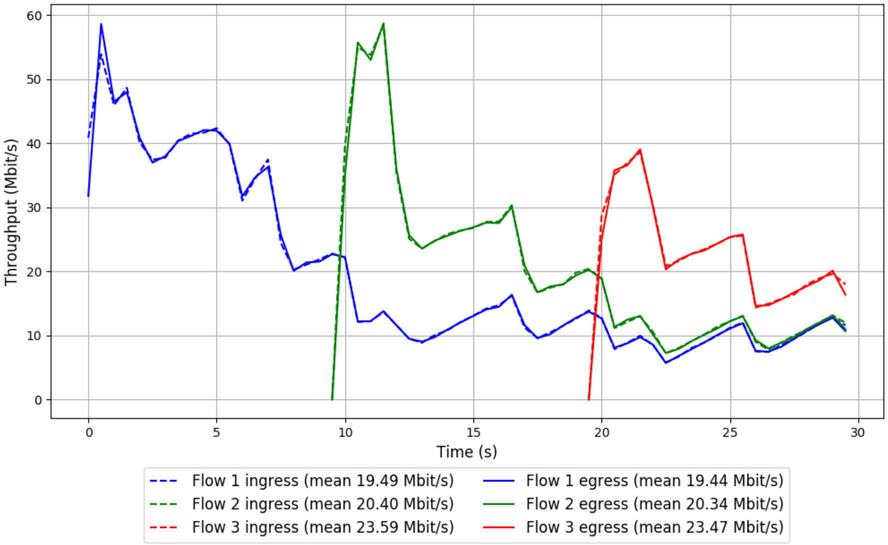
Run 7: Report of TCP Cubic — Data Link

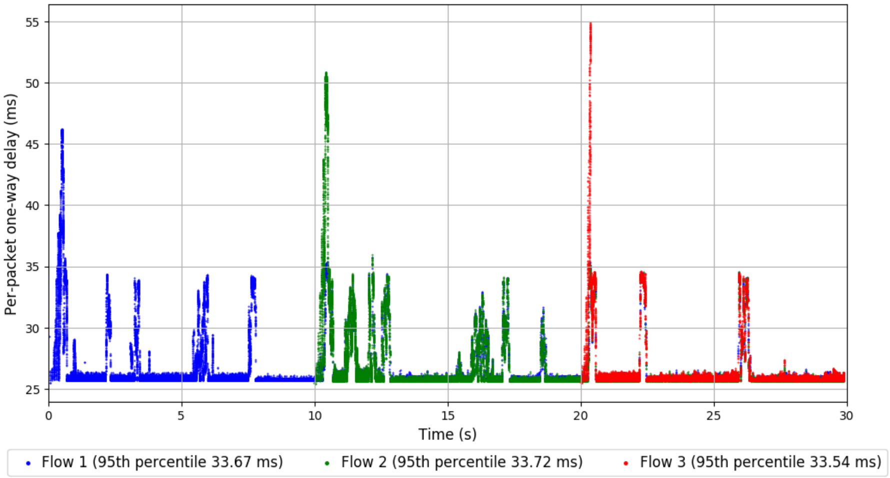




```
Run 8: Statistics of TCP Cubic

Start at: 2018-01-26 13:23:08
End at: 2018-01-26 13:23:38
Local clock offset: 1.603 ms
Remote clock offset: -1.801 ms

# Below is generated by plot.py at 2018-01-26 18:15:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.78 Mbit/s
95th percentile per-packet one-way delay: 33.668 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 19.44 Mbit/s
95th percentile per-packet one-way delay: 33.674 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 20.34 Mbit/s
95th percentile per-packet one-way delay: 33.719 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 23.47 Mbit/s
95th percentile per-packet one-way delay: 33.538 ms
Loss rate: 1.01%
```

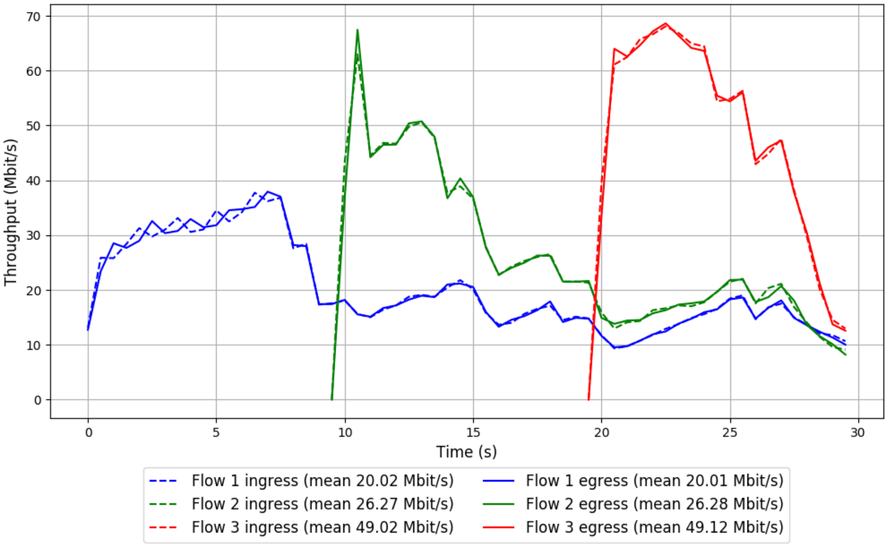
Run 8: Report of TCP Cubic — Data Link

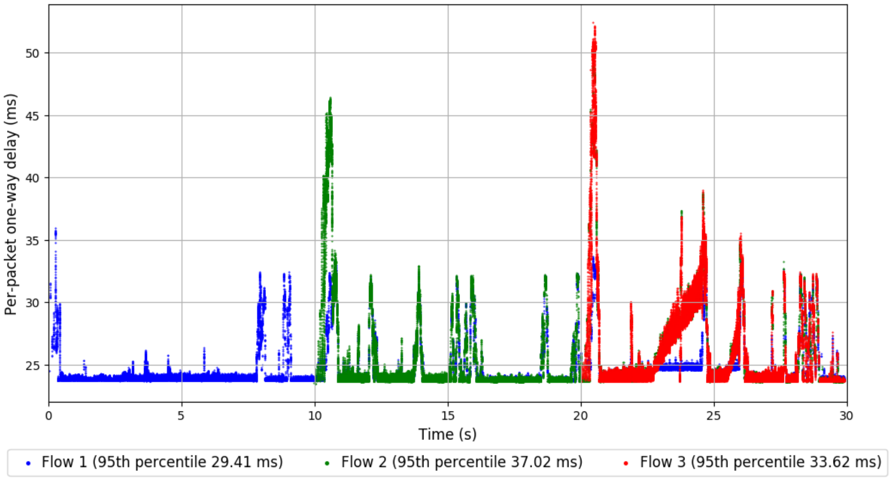




```
Run 9: Statistics of TCP Cubic

Start at: 2018-01-26 13:45:20
End at: 2018-01-26 13:45:50
Local clock offset: 1.628 ms
Remote clock offset: -0.47 ms

# Below is generated by plot.py at 2018-01-26 18:15:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 53.80 Mbit/s
95th percentile per-packet one-way delay: 32.087 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 20.01 Mbit/s
95th percentile per-packet one-way delay: 29.408 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 26.28 Mbit/s
95th percentile per-packet one-way delay: 37.022 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 49.12 Mbit/s
95th percentile per-packet one-way delay: 33.622 ms
Loss rate: 0.34%
```

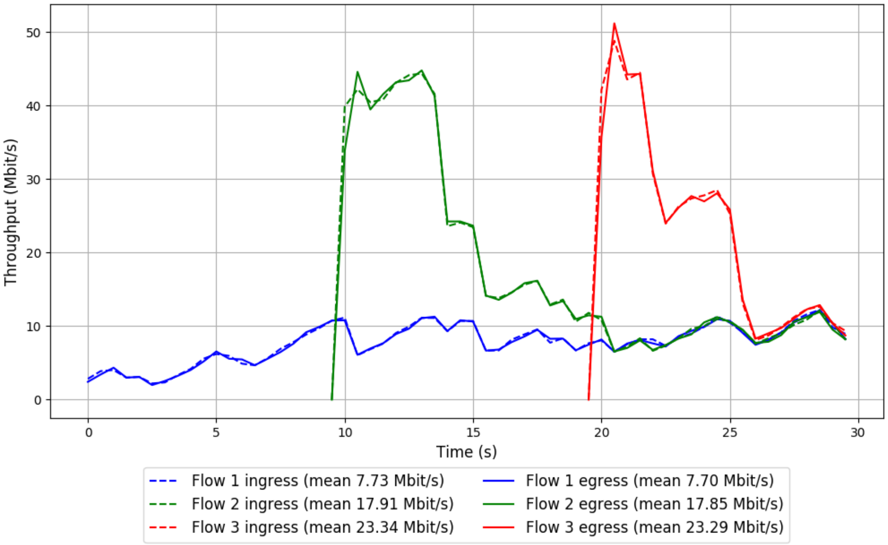
Run 9: Report of TCP Cubic — Data Link

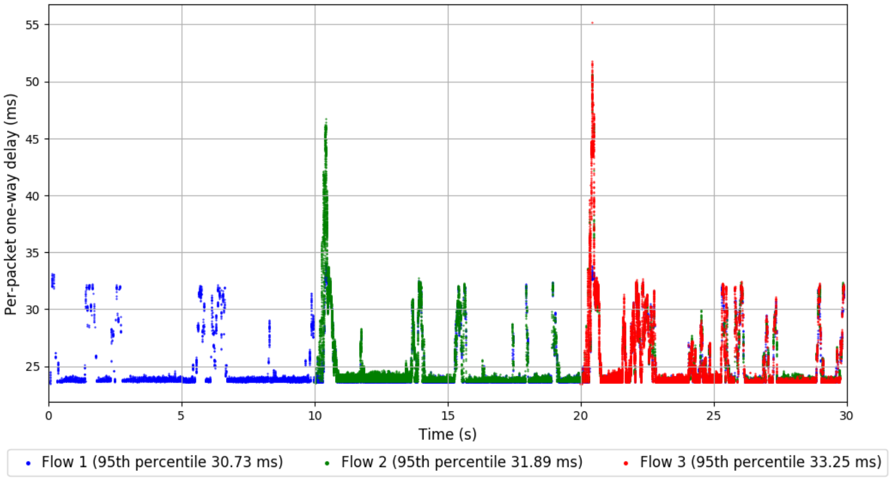




```
Run 10: Statistics of TCP Cubic

Start at: 2018-01-26 14:07:27
End at: 2018-01-26 14:07:57
Local clock offset: 1.767 ms
Remote clock offset: -0.794 ms

# Below is generated by plot.py at 2018-01-26 18:15:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.29 Mbit/s
95th percentile per-packet one-way delay: 31.872 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 7.70 Mbit/s
95th percentile per-packet one-way delay: 30.728 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 17.85 Mbit/s
95th percentile per-packet one-way delay: 31.885 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 23.29 Mbit/s
95th percentile per-packet one-way delay: 33.249 ms
Loss rate: 0.74%
```

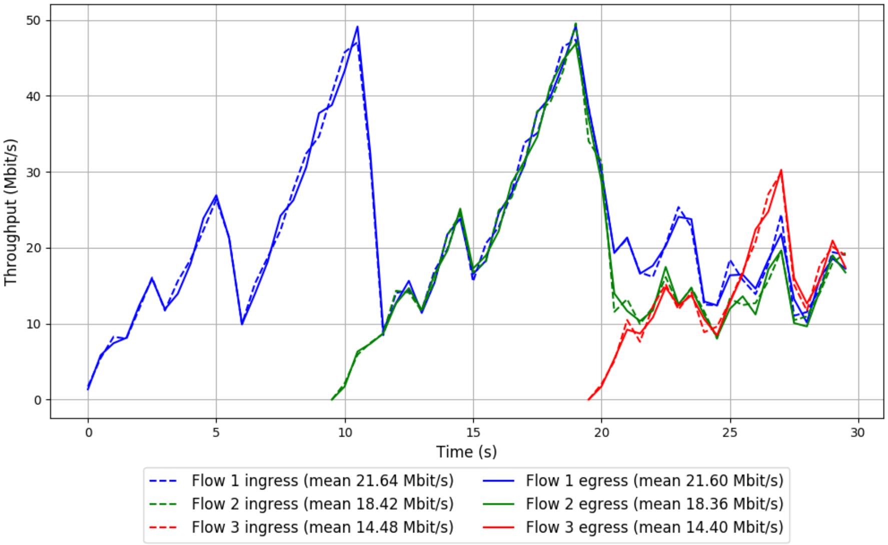
Run 10: Report of TCP Cubic — Data Link

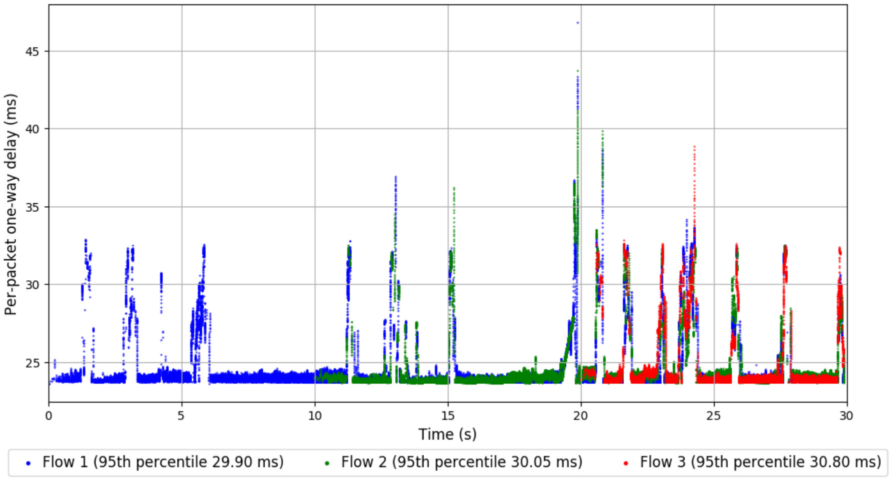




```
Run 1: Statistics of LEDBAT

Start at: 2018-01-26 10:47:36
End at: 2018-01-26 10:48:06
Local clock offset: 1.419 ms
Remote clock offset: -0.866 ms

# Below is generated by plot.py at 2018-01-26 18:15:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.60 Mbit/s
95th percentile per-packet one-way delay: 30.156 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 21.60 Mbit/s
95th percentile per-packet one-way delay: 29.900 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 18.36 Mbit/s
95th percentile per-packet one-way delay: 30.046 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 14.40 Mbit/s
95th percentile per-packet one-way delay: 30.803 ms
Loss rate: 1.08%
```

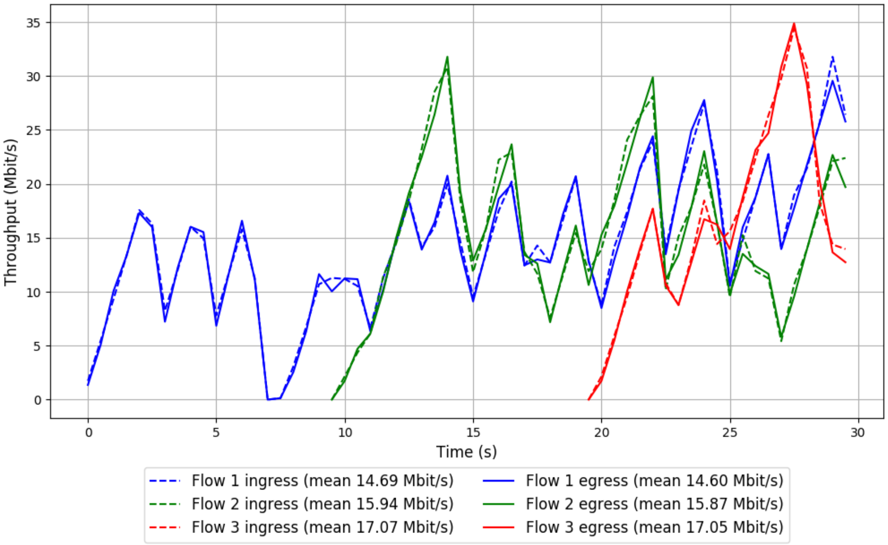
Run 1: Report of LEDBAT — Data Link

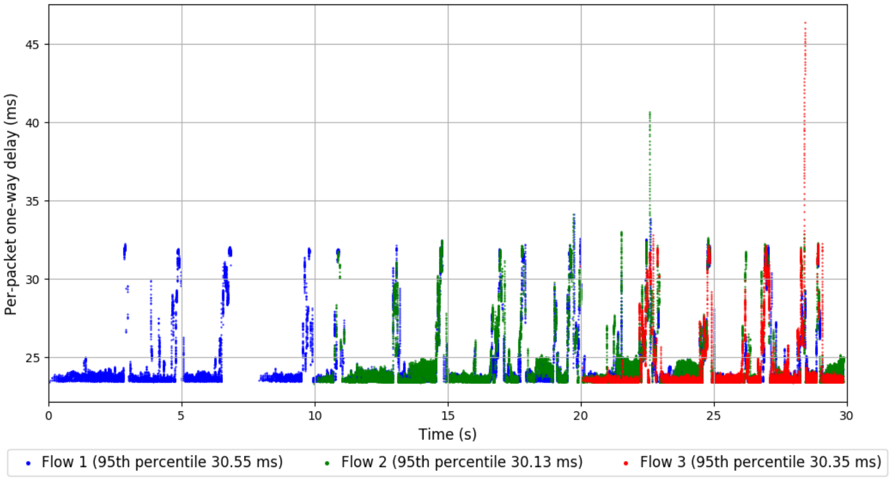




```
Run 2: Statistics of LEDBAT

Start at: 2018-01-26 11:09:50
End at: 2018-01-26 11:10:20
Local clock offset: 1.221 ms
Remote clock offset: -0.584 ms

# Below is generated by plot.py at 2018-01-26 18:15:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.80 Mbit/s
95th percentile per-packet one-way delay: 30.376 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 14.60 Mbit/s
95th percentile per-packet one-way delay: 30.549 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 15.87 Mbit/s
95th percentile per-packet one-way delay: 30.134 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 17.05 Mbit/s
95th percentile per-packet one-way delay: 30.353 ms
Loss rate: 0.76%
```

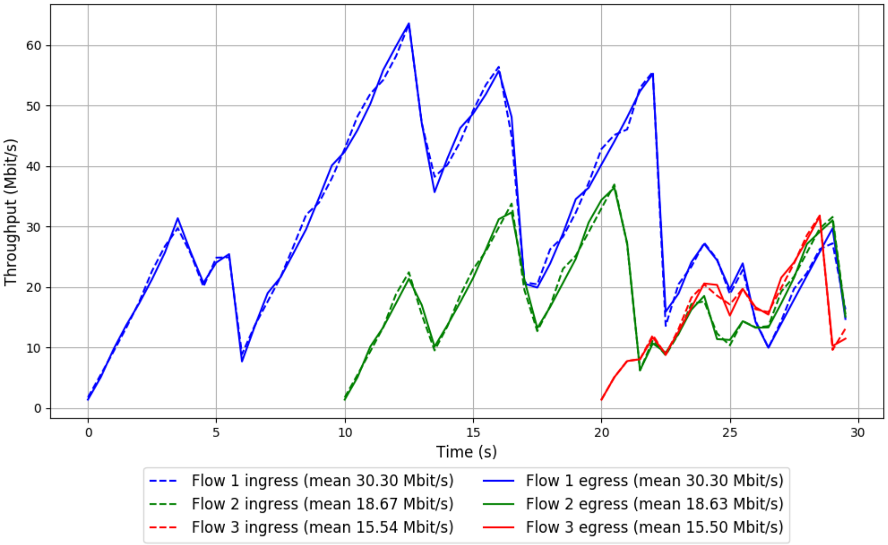
Run 2: Report of LEDBAT — Data Link

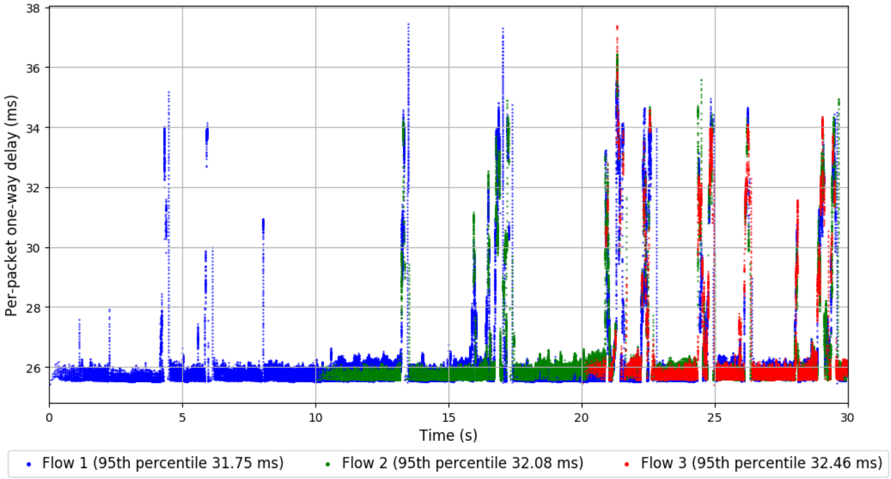




```
Run 3: Statistics of LEDBAT

Start at: 2018-01-26 11:31:43
End at: 2018-01-26 11:32:13
Local clock offset: 1.207 ms
Remote clock offset: -2.612 ms

# Below is generated by plot.py at 2018-01-26 18:16:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 47.80 Mbit/s
95th percentile per-packet one-way delay: 31.992 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 30.30 Mbit/s
95th percentile per-packet one-way delay: 31.748 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 18.63 Mbit/s
95th percentile per-packet one-way delay: 32.080 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 15.50 Mbit/s
95th percentile per-packet one-way delay: 32.463 ms
Loss rate: 0.76%
```

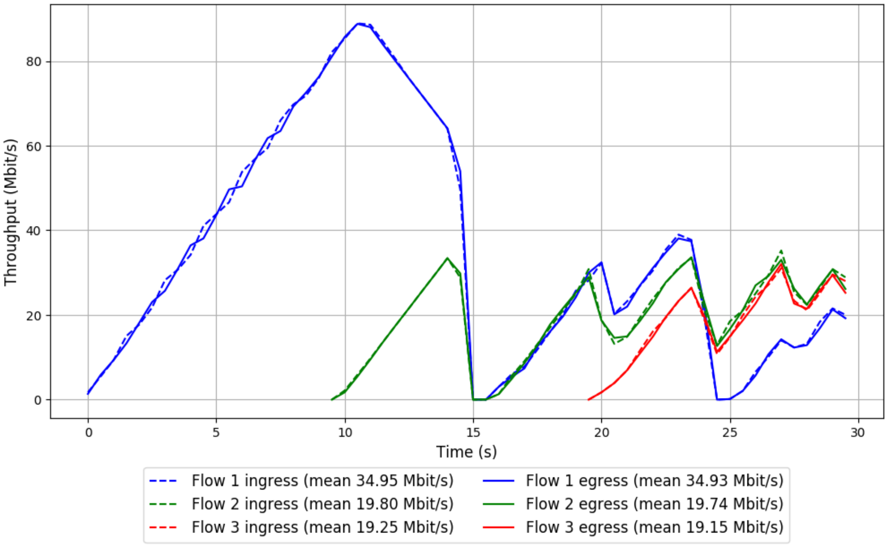
Run 3: Report of LEDBAT — Data Link

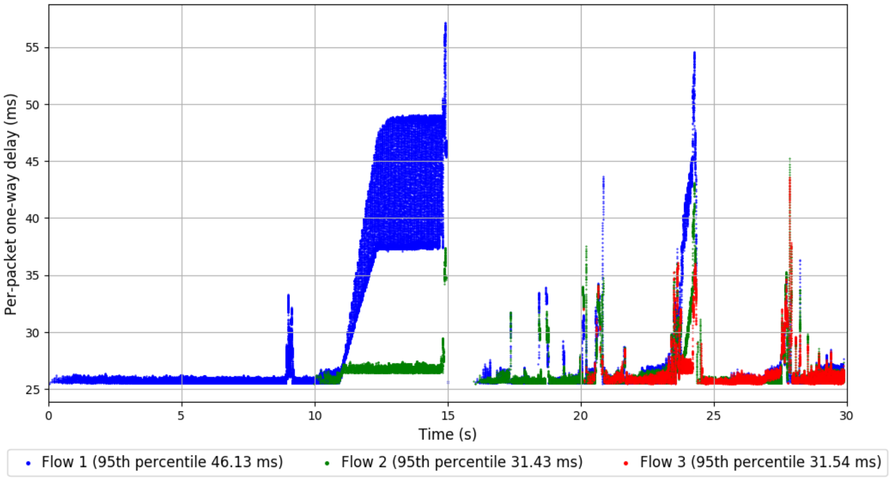




```
Run 4: Statistics of LEDBAT

Start at: 2018-01-26 11:53:35
End at: 2018-01-26 11:54:05
Local clock offset: 1.223 ms
Remote clock offset: -2.079 ms

# Below is generated by plot.py at 2018-01-26 18:16:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.44 Mbit/s
95th percentile per-packet one-way delay: 43.595 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 34.93 Mbit/s
95th percentile per-packet one-way delay: 46.133 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 19.74 Mbit/s
95th percentile per-packet one-way delay: 31.428 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 19.15 Mbit/s
95th percentile per-packet one-way delay: 31.537 ms
Loss rate: 1.06%
```

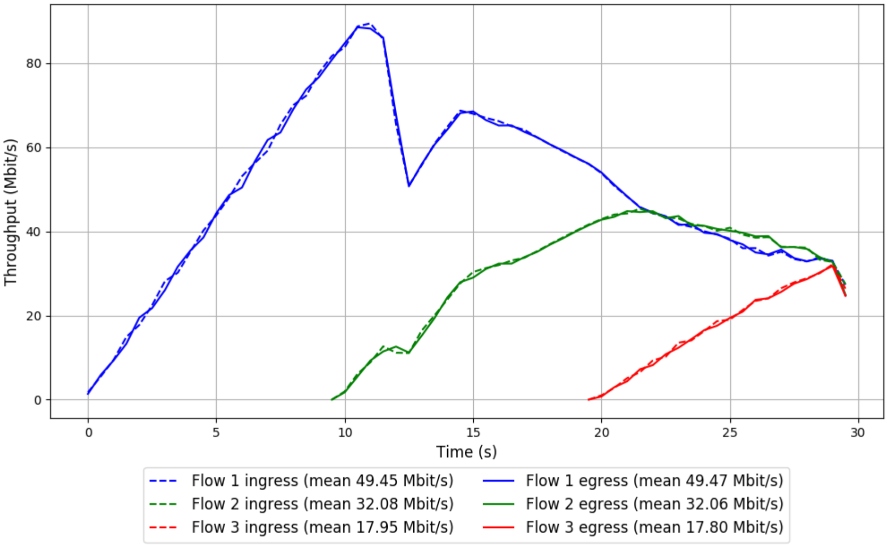
Run 4: Report of LEDBAT — Data Link

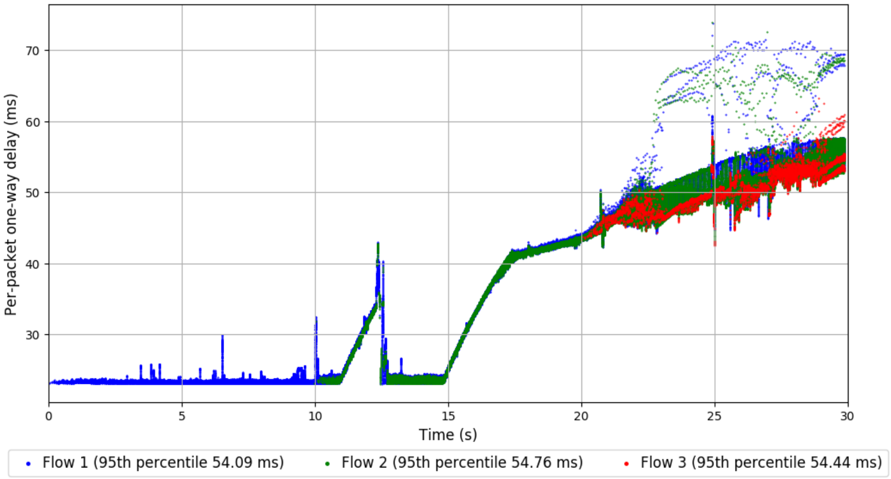




```
Run 5: Statistics of LEDBAT

Start at: 2018-01-26 12:15:27
End at: 2018-01-26 12:15:57
Local clock offset: 1.329 ms
Remote clock offset: 0.779 ms

# Below is generated by plot.py at 2018-01-26 18:16:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.73 Mbit/s
95th percentile per-packet one-way delay: 54.341 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 49.47 Mbit/s
95th percentile per-packet one-way delay: 54.091 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 32.06 Mbit/s
95th percentile per-packet one-way delay: 54.755 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 17.80 Mbit/s
95th percentile per-packet one-way delay: 54.444 ms
Loss rate: 1.53%
```

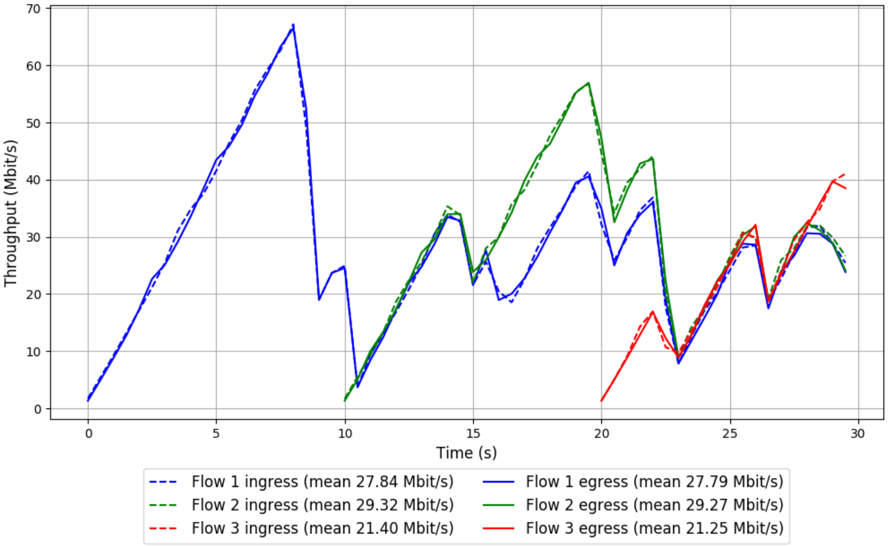
Run 5: Report of LEDBAT — Data Link

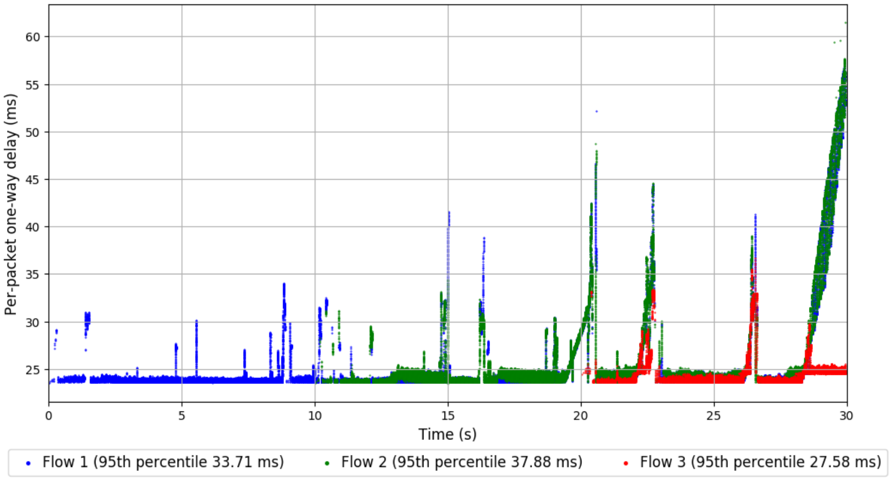




```
Run 6: Statistics of LEDBAT

Start at: 2018-01-26 12:37:20
End at: 2018-01-26 12:37:50
Local clock offset: 1.401 ms
Remote clock offset: 0.547 ms

# Below is generated by plot.py at 2018-01-26 18:16:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.30 Mbit/s
95th percentile per-packet one-way delay: 34.418 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 27.79 Mbit/s
95th percentile per-packet one-way delay: 33.709 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 29.27 Mbit/s
95th percentile per-packet one-way delay: 37.885 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 21.25 Mbit/s
95th percentile per-packet one-way delay: 27.578 ms
Loss rate: 1.22%
```

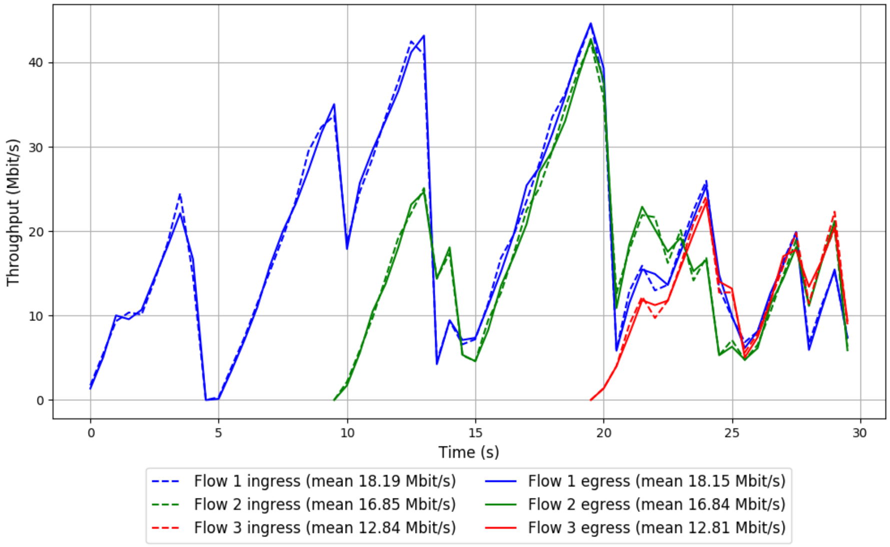
Run 6: Report of LEDBAT — Data Link

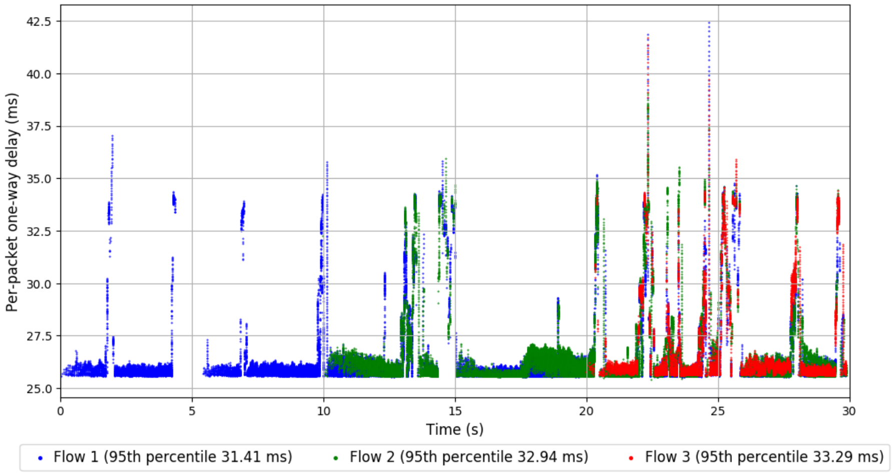




```
Run 7: Statistics of LEDBAT

Start at: 2018-01-26 12:59:26
End at: 2018-01-26 12:59:56
Local clock offset: 1.463 ms
Remote clock offset: -1.248 ms

# Below is generated by plot.py at 2018-01-26 18:16:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.59 Mbit/s
95th percentile per-packet one-way delay: 32.435 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 18.15 Mbit/s
95th percentile per-packet one-way delay: 31.414 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 16.84 Mbit/s
95th percentile per-packet one-way delay: 32.935 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 12.81 Mbit/s
95th percentile per-packet one-way delay: 33.294 ms
Loss rate: 0.86%
```

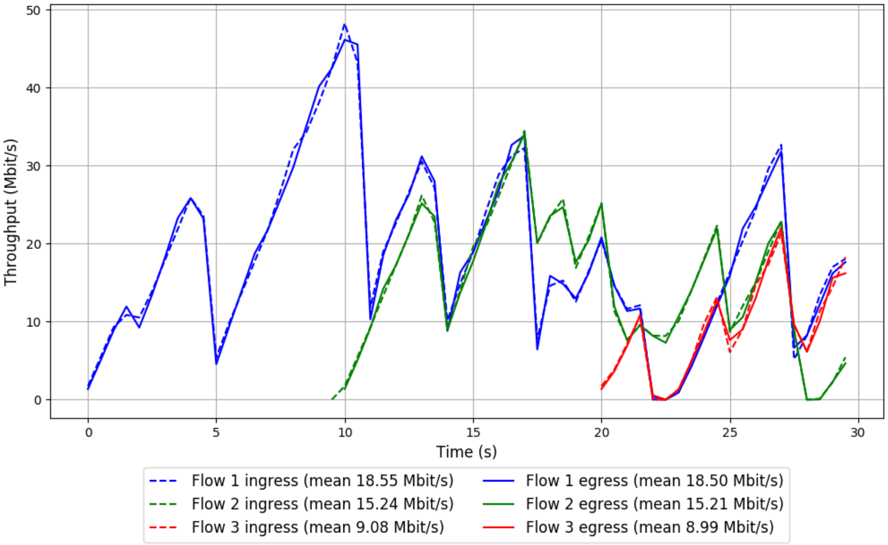
Run 7: Report of LEDBAT — Data Link

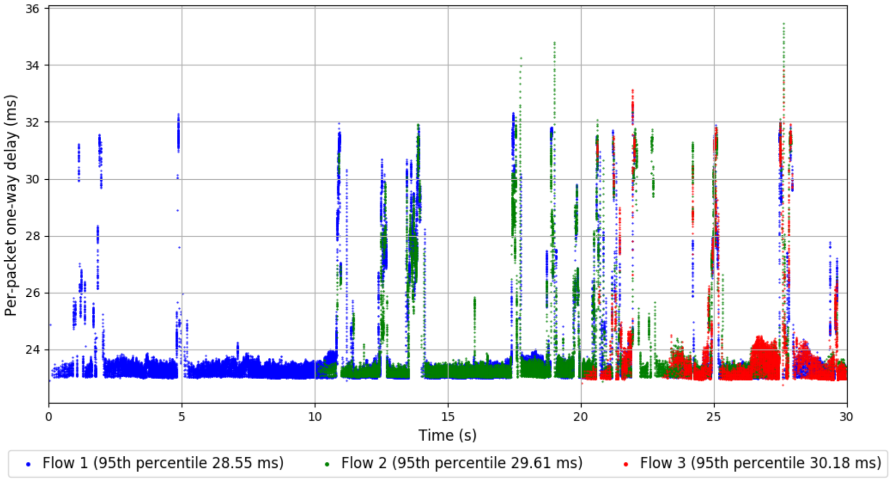




```
Run 8: Statistics of LEDBAT

Start at: 2018-01-26 13:21:47
End at: 2018-01-26 13:22:17
Local clock offset: 1.592 ms
Remote clock offset: 0.911 ms

# Below is generated by plot.py at 2018-01-26 18:16:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.58 Mbit/s
95th percentile per-packet one-way delay: 29.139 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 18.50 Mbit/s
95th percentile per-packet one-way delay: 28.549 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 15.21 Mbit/s
95th percentile per-packet one-way delay: 29.613 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 8.99 Mbit/s
95th percentile per-packet one-way delay: 30.179 ms
Loss rate: 1.54%
```

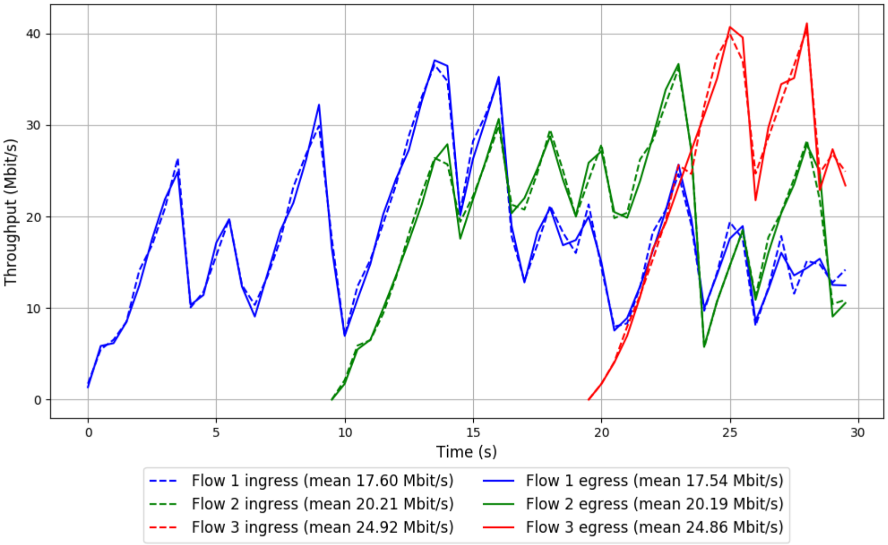
Run 8: Report of LEDBAT — Data Link

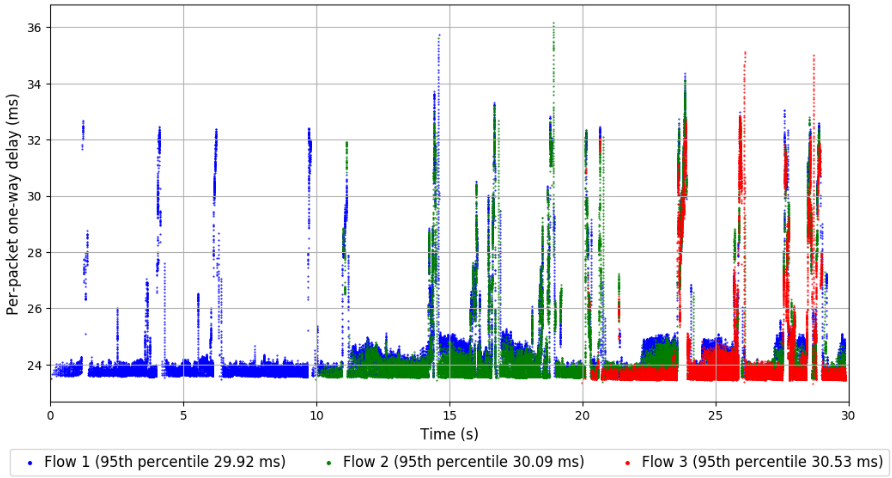




```
Run 9: Statistics of LEDBAT

Start at: 2018-01-26 13:44:00
End at: 2018-01-26 13:44:30
Local clock offset: 1.62 ms
Remote clock offset: -0.296 ms

# Below is generated by plot.py at 2018-01-26 18:16:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.22 Mbit/s
95th percentile per-packet one-way delay: 30.175 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 17.54 Mbit/s
95th percentile per-packet one-way delay: 29.919 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 20.19 Mbit/s
95th percentile per-packet one-way delay: 30.093 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 24.86 Mbit/s
95th percentile per-packet one-way delay: 30.526 ms
Loss rate: 0.77%
```

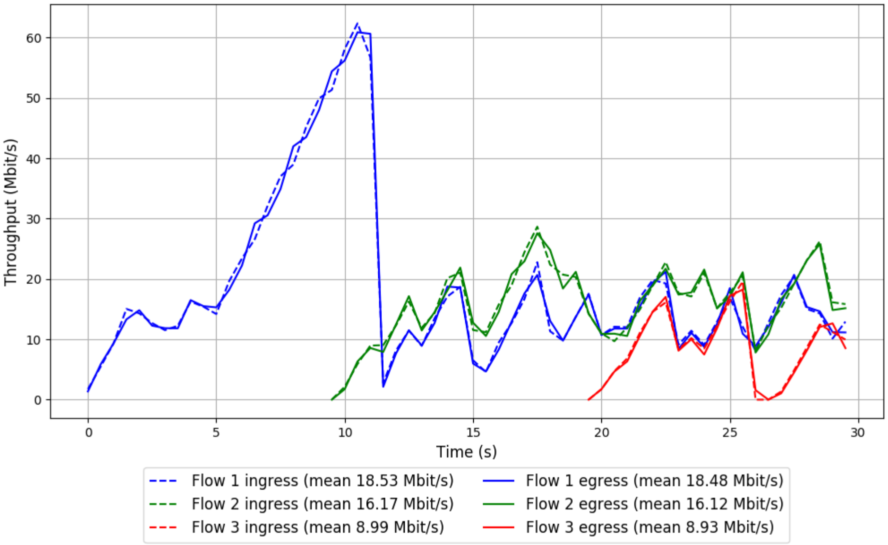
Run 9: Report of LEDBAT — Data Link

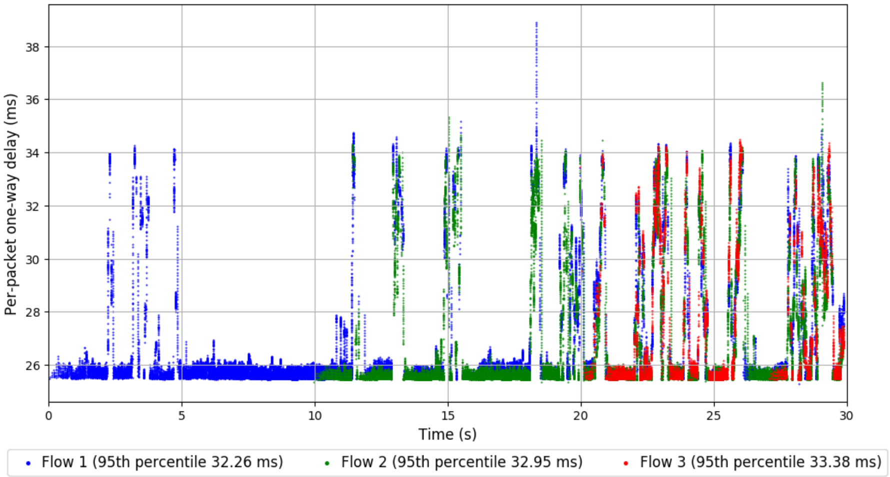




```
Run 10: Statistics of LEDBAT

Start at: 2018-01-26 14:06:05
End at: 2018-01-26 14:06:35
Local clock offset: 1.766 ms
Remote clock offset: -2.615 ms

# Below is generated by plot.py at 2018-01-26 18:16:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 32.17 Mbit/s
95th percentile per-packet one-way delay: 32.738 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 18.48 Mbit/s
95th percentile per-packet one-way delay: 32.256 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 16.12 Mbit/s
95th percentile per-packet one-way delay: 32.950 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 8.93 Mbit/s
95th percentile per-packet one-way delay: 33.383 ms
Loss rate: 1.29%
```

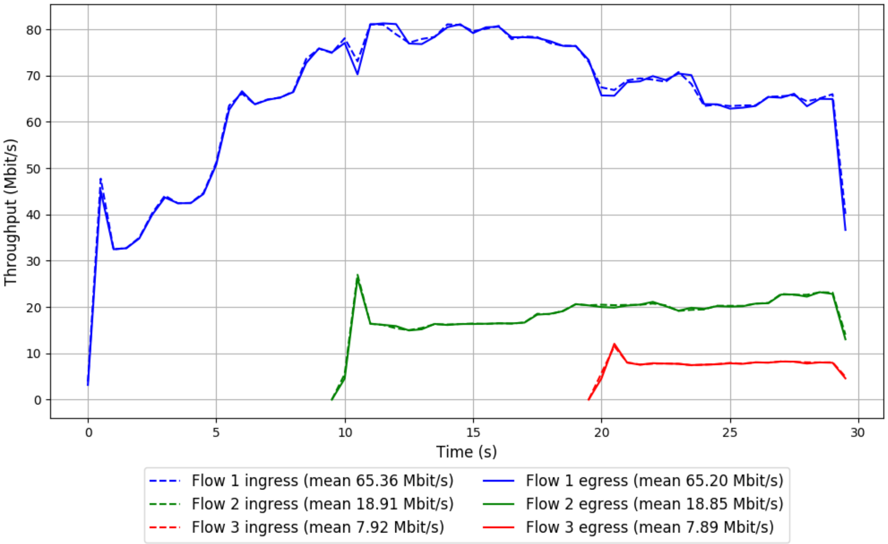
Run 10: Report of LEDBAT — Data Link

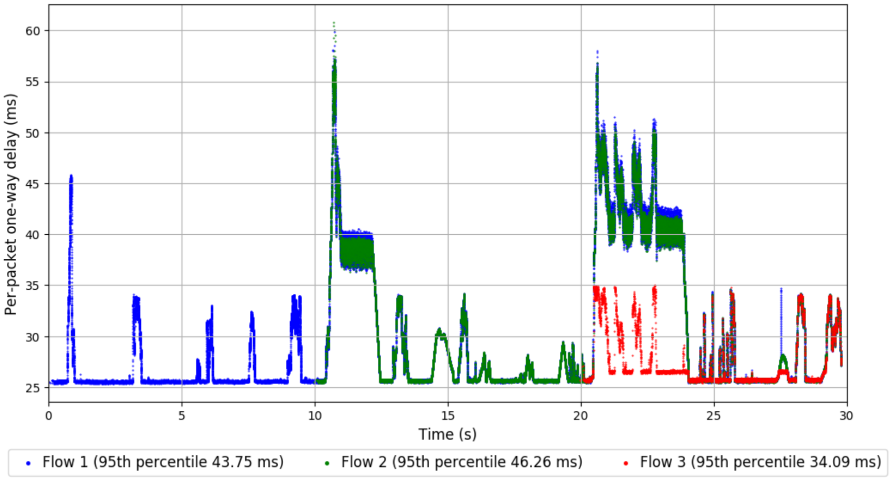




```
Run 1: Statistics of PCC

Start at: 2018-01-26 10:54:31
End at: 2018-01-26 10:55:01
Local clock offset: 1.293 ms
Remote clock offset: -2.699 ms

# Below is generated by plot.py at 2018-01-26 18:17:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.34 Mbit/s
95th percentile per-packet one-way delay: 44.139 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 65.20 Mbit/s
95th percentile per-packet one-way delay: 43.746 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 18.85 Mbit/s
95th percentile per-packet one-way delay: 46.255 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 7.89 Mbit/s
95th percentile per-packet one-way delay: 34.088 ms
Loss rate: 0.95%
```

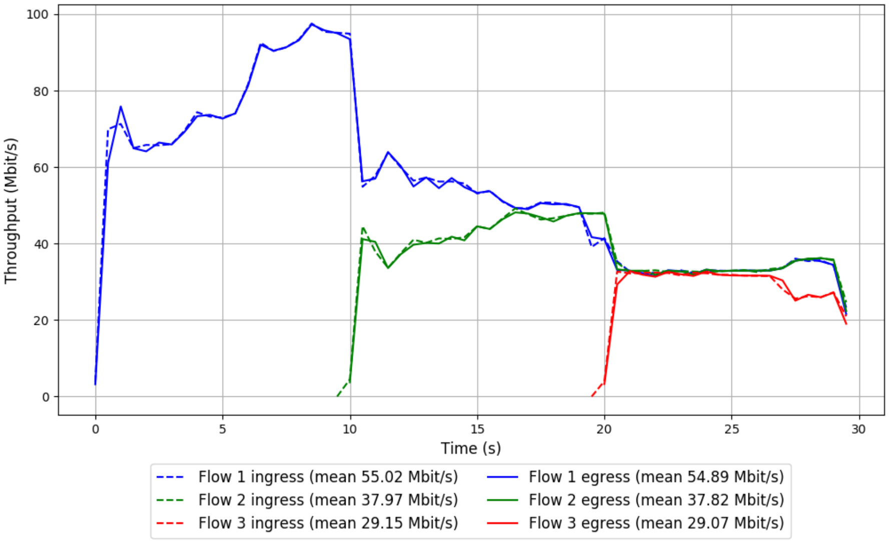
Run 1: Report of PCC — Data Link

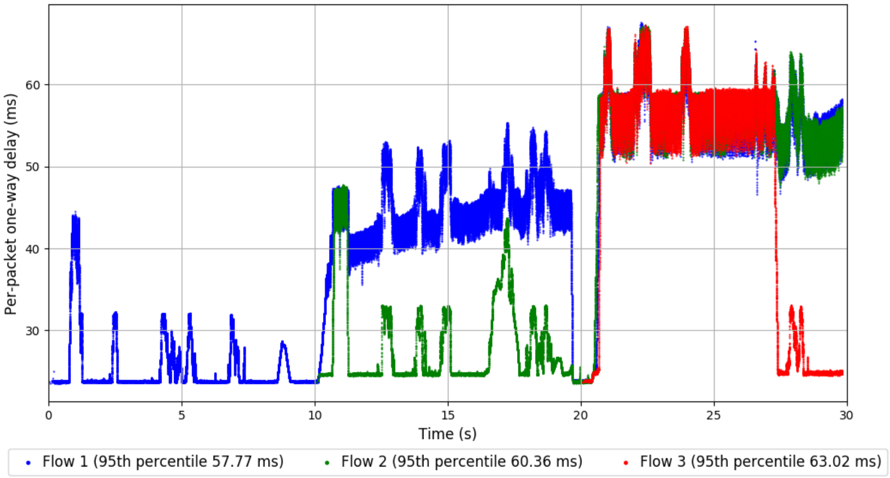




```
Run 2: Statistics of PCC

Start at: 2018-01-26 11:16:38
End at: 2018-01-26 11:17:08
Local clock offset: 1.352 ms
Remote clock offset: -0.717 ms

# Below is generated by plot.py at 2018-01-26 18:17:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.60 Mbit/s
95th percentile per-packet one-way delay: 59.074 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 54.89 Mbit/s
95th percentile per-packet one-way delay: 57.773 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 37.82 Mbit/s
95th percentile per-packet one-way delay: 60.363 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 29.07 Mbit/s
95th percentile per-packet one-way delay: 63.023 ms
Loss rate: 0.82%
```

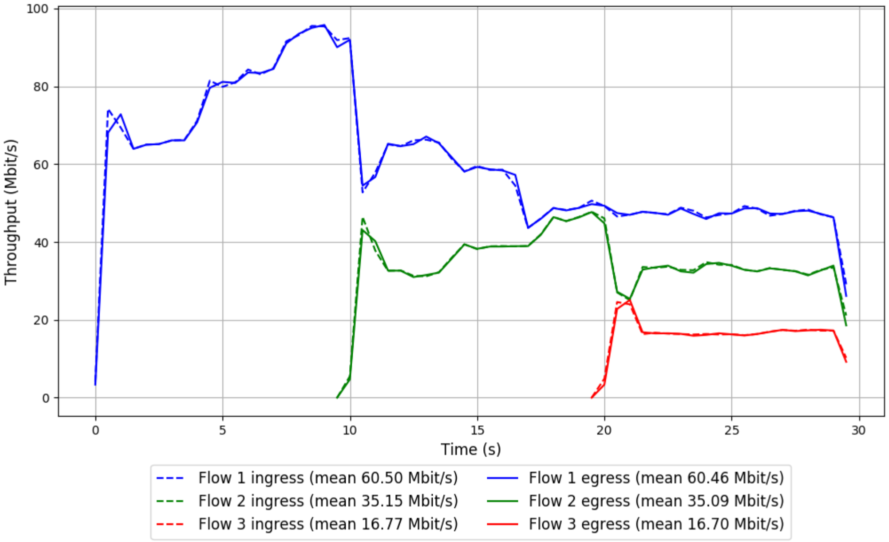
Run 2: Report of PCC — Data Link

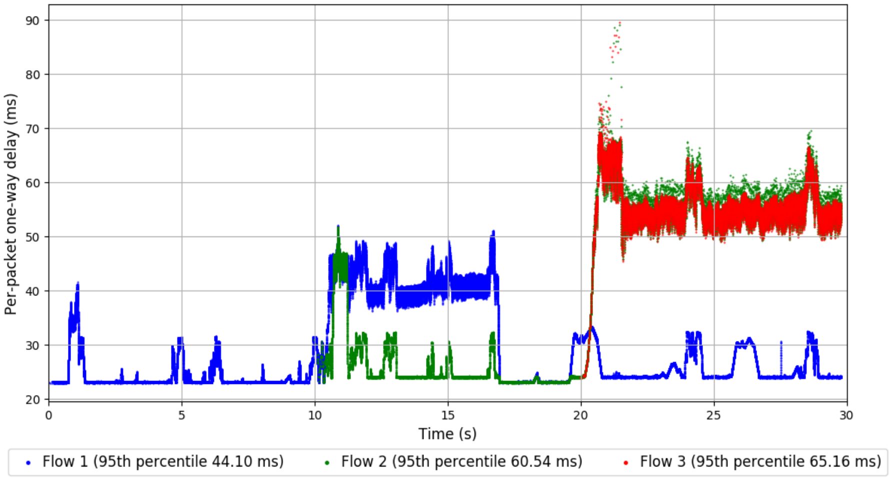




```
Run 3: Statistics of PCC

Start at: 2018-01-26 11:38:33
End at: 2018-01-26 11:39:03
Local clock offset: 1.265 ms
Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2018-01-26 18:17:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.31 Mbit/s
95th percentile per-packet one-way delay: 56.555 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 60.46 Mbit/s
95th percentile per-packet one-way delay: 44.102 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 35.09 Mbit/s
95th percentile per-packet one-way delay: 60.541 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 16.70 Mbit/s
95th percentile per-packet one-way delay: 65.163 ms
Loss rate: 0.96%
```

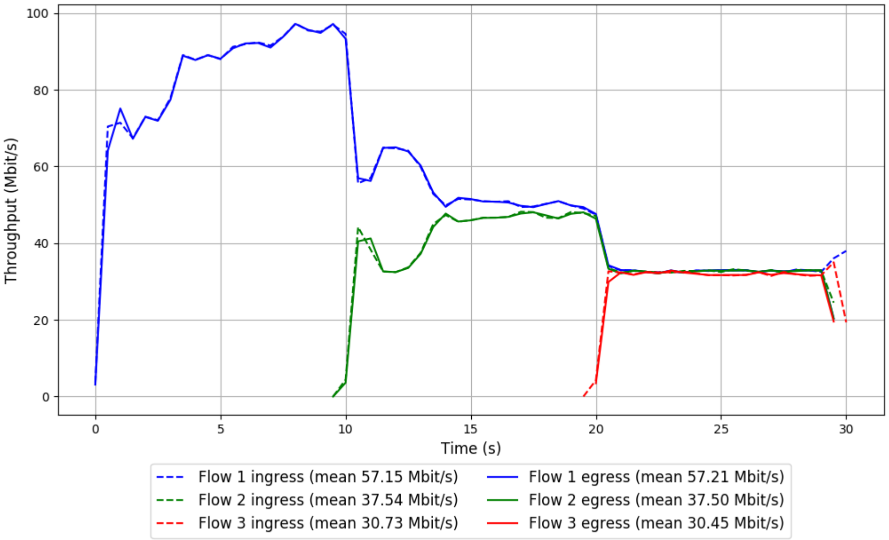
Run 3: Report of PCC — Data Link

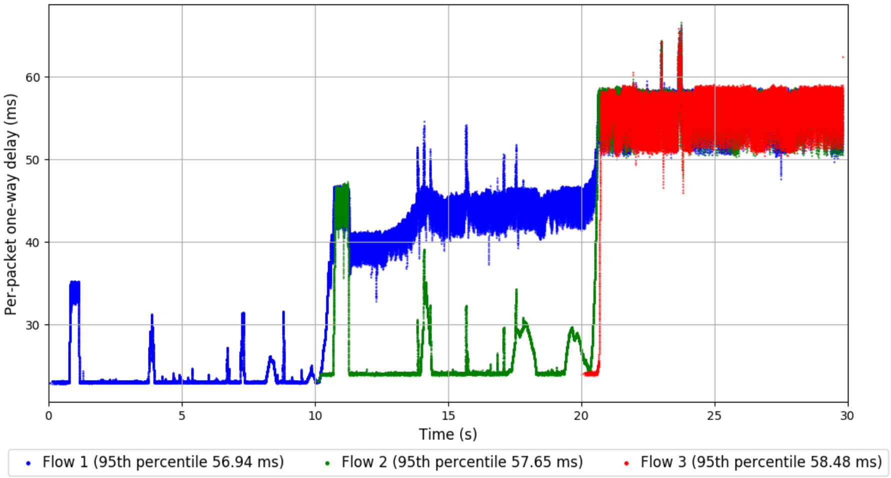




```
Run 4: Statistics of PCC

Start at: 2018-01-26 12:00:28
End at: 2018-01-26 12:00:58
Local clock offset: 1.31 ms
Remote clock offset: 0.651 ms

# Below is generated by plot.py at 2018-01-26 18:17:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.17 Mbit/s
95th percentile per-packet one-way delay: 57.622 ms
Loss rate: 1.87%
-- Flow 1:
Average throughput: 57.21 Mbit/s
95th percentile per-packet one-way delay: 56.937 ms
Loss rate: 1.67%
-- Flow 2:
Average throughput: 37.50 Mbit/s
95th percentile per-packet one-way delay: 57.654 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 30.45 Mbit/s
95th percentile per-packet one-way delay: 58.480 ms
Loss rate: 6.04%
```

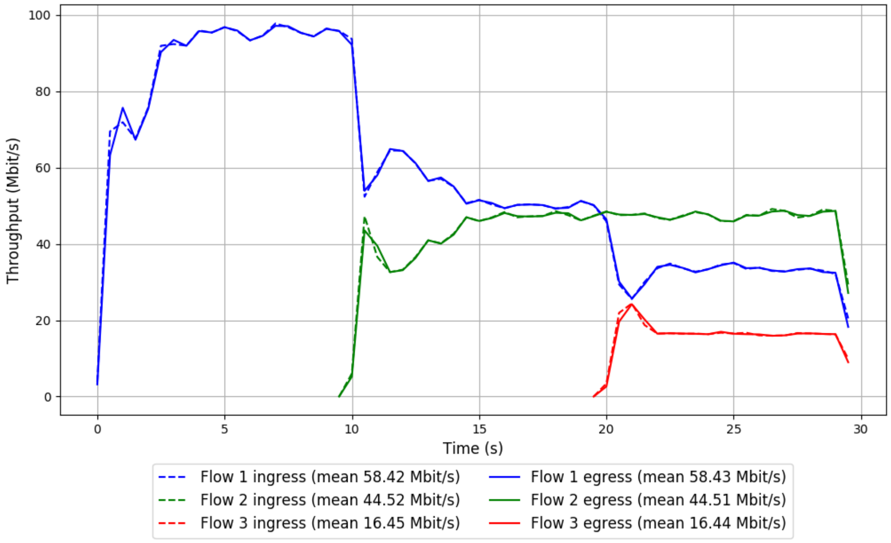
Run 4: Report of PCC — Data Link

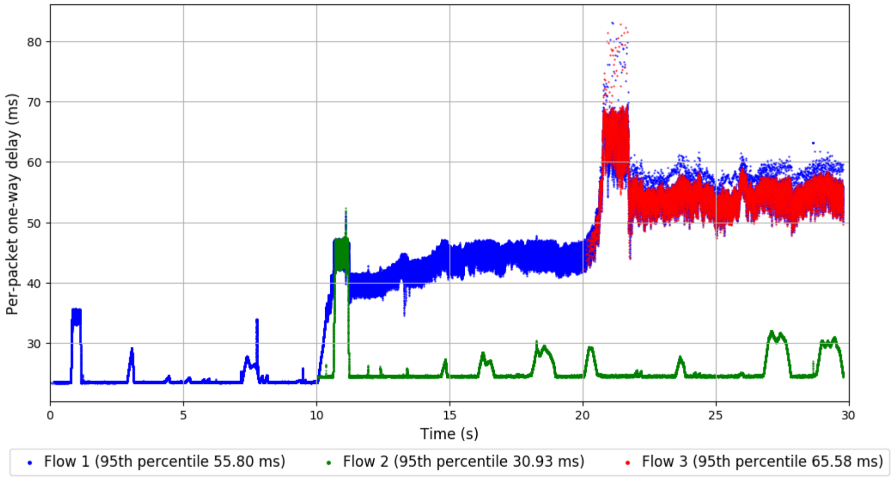




```
Run 5: Statistics of PCC

Start at: 2018-01-26 12:22:15
End at: 2018-01-26 12:22:45
Local clock offset: 1.36 ms
Remote clock offset: 0.483 ms

# Below is generated by plot.py at 2018-01-26 18:18:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.49 Mbit/s
95th percentile per-packet one-way delay: 55.745 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 58.43 Mbit/s
95th percentile per-packet one-way delay: 55.795 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 44.51 Mbit/s
95th percentile per-packet one-way delay: 30.935 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 16.44 Mbit/s
95th percentile per-packet one-way delay: 65.576 ms
Loss rate: 0.82%
```

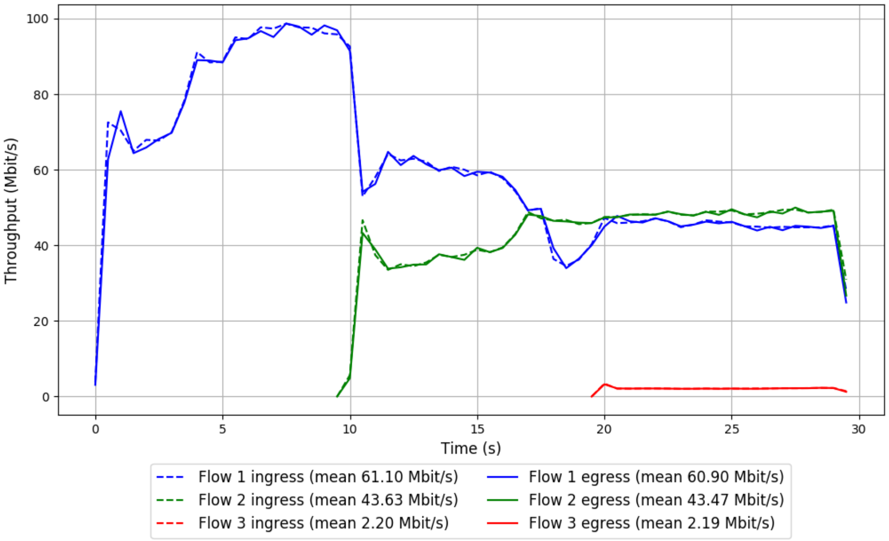
Run 5: Report of PCC — Data Link

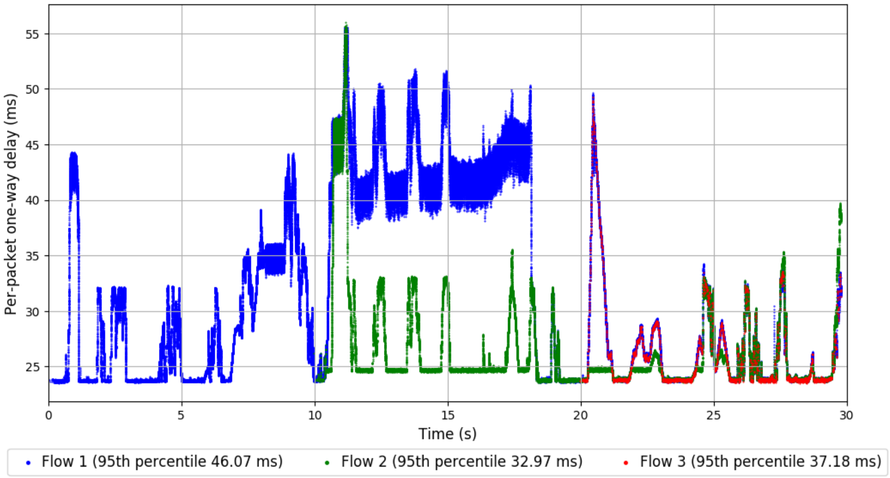




```
Run 6: Statistics of PCC

Start at: 2018-01-26 12:44:07
End at: 2018-01-26 12:44:37
Local clock offset: 1.441 ms
Remote clock offset: 0.564 ms

# Below is generated by plot.py at 2018-01-26 18:18:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.58 Mbit/s
95th percentile per-packet one-way delay: 45.210 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 60.90 Mbit/s
95th percentile per-packet one-way delay: 46.067 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 43.47 Mbit/s
95th percentile per-packet one-way delay: 32.972 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 37.178 ms
Loss rate: 0.97%
```

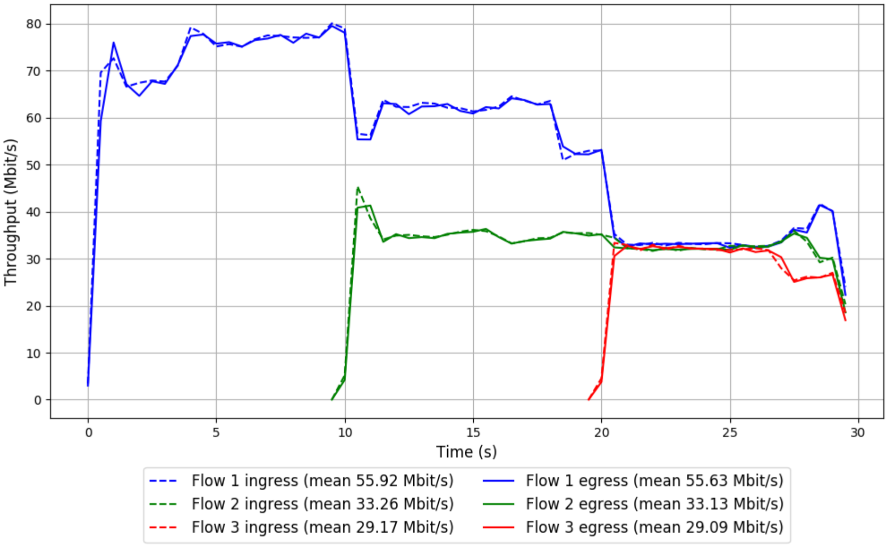
Run 6: Report of PCC — Data Link

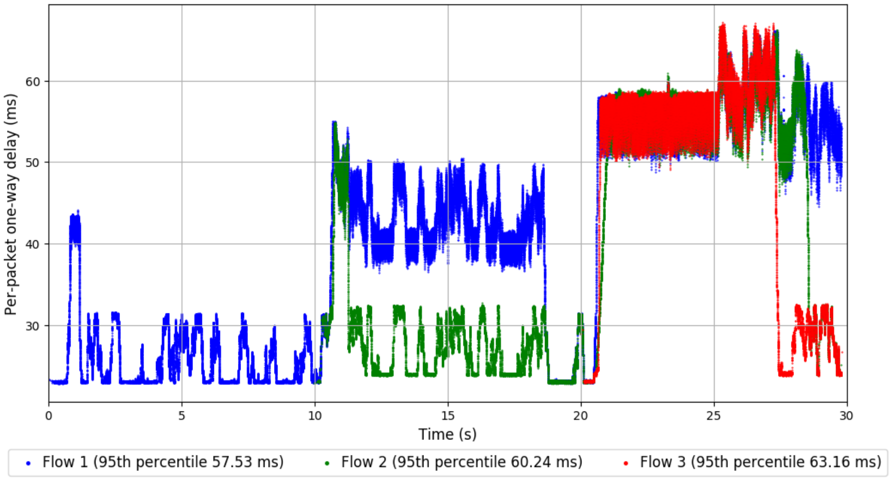




```
Run 7: Statistics of PCC

Start at: 2018-01-26 13:06:18
End at: 2018-01-26 13:06:48
Local clock offset: 1.489 ms
Remote clock offset: 1.128 ms

# Below is generated by plot.py at 2018-01-26 18:18:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.26 Mbit/s
95th percentile per-packet one-way delay: 59.437 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 55.63 Mbit/s
95th percentile per-packet one-way delay: 57.528 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 33.13 Mbit/s
95th percentile per-packet one-way delay: 60.238 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 29.09 Mbit/s
95th percentile per-packet one-way delay: 63.160 ms
Loss rate: 0.87%
```

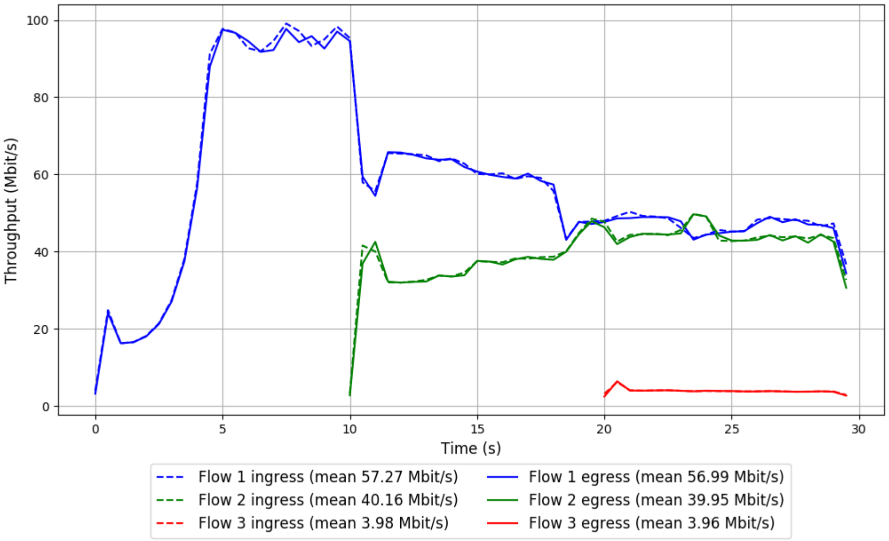
Run 7: Report of PCC — Data Link

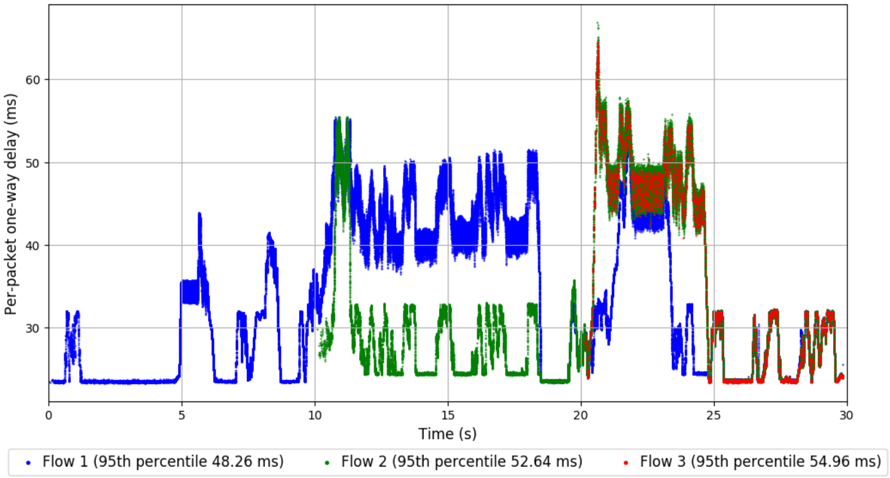




```
Run 8: Statistics of PCC

Start at: 2018-01-26 13:28:38
End at: 2018-01-26 13:29:08
Local clock offset: 1.503 ms
Remote clock offset: 0.082 ms

# Below is generated by plot.py at 2018-01-26 18:18:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.82 Mbit/s
95th percentile per-packet one-way delay: 49.723 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 56.99 Mbit/s
95th percentile per-packet one-way delay: 48.258 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 39.95 Mbit/s
95th percentile per-packet one-way delay: 52.636 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 3.96 Mbit/s
95th percentile per-packet one-way delay: 54.958 ms
Loss rate: 1.02%
```

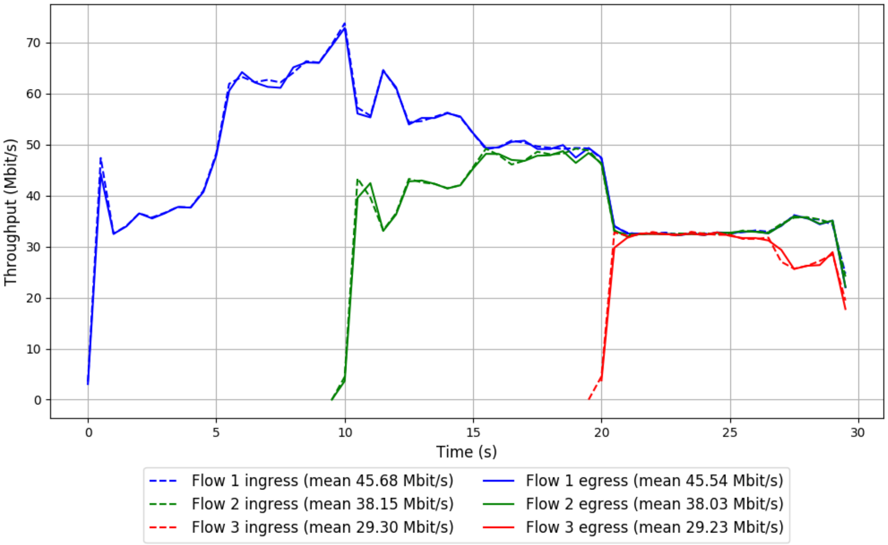
Run 8: Report of PCC — Data Link

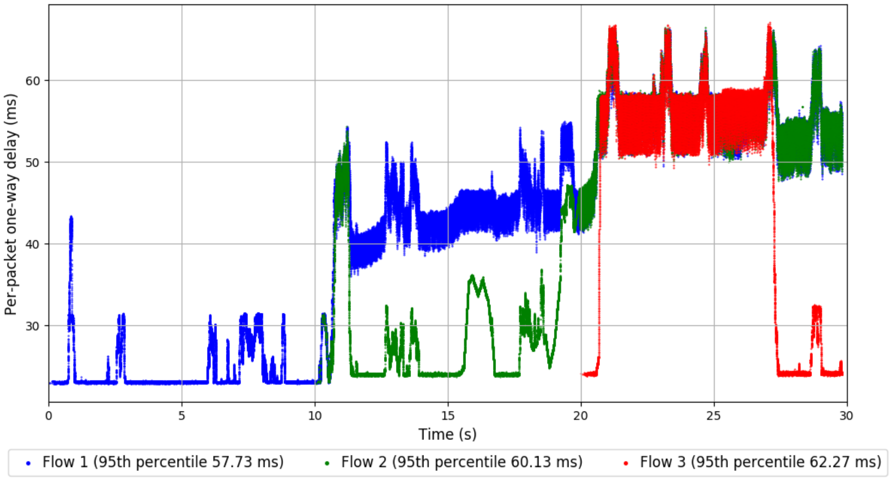




```
Run 9: Statistics of PCC

Start at: 2018-01-26 13:50:43
End at: 2018-01-26 13:51:13
Local clock offset: 1.667 ms
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2018-01-26 18:19:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.46 Mbit/s
95th percentile per-packet one-way delay: 59.082 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 45.54 Mbit/s
95th percentile per-packet one-way delay: 57.731 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 38.03 Mbit/s
95th percentile per-packet one-way delay: 60.131 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 29.23 Mbit/s
95th percentile per-packet one-way delay: 62.274 ms
Loss rate: 0.79%
```

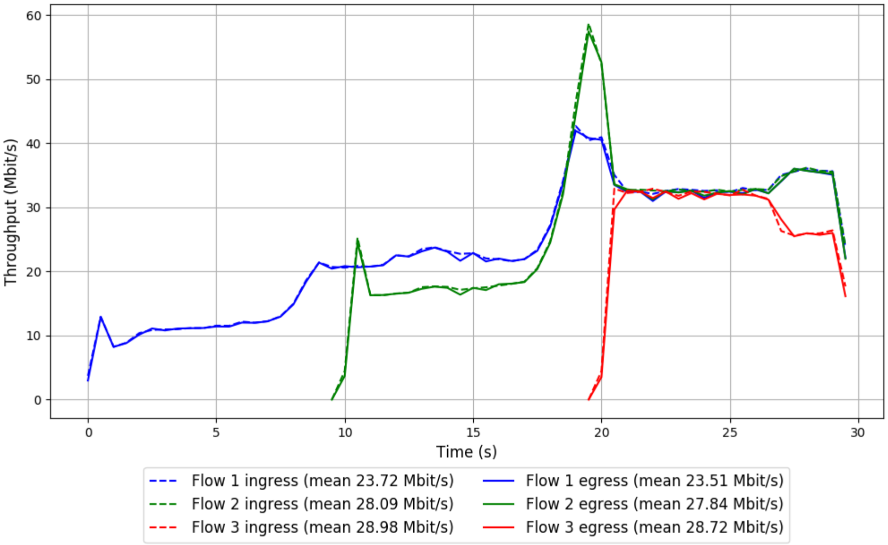
Run 9: Report of PCC — Data Link

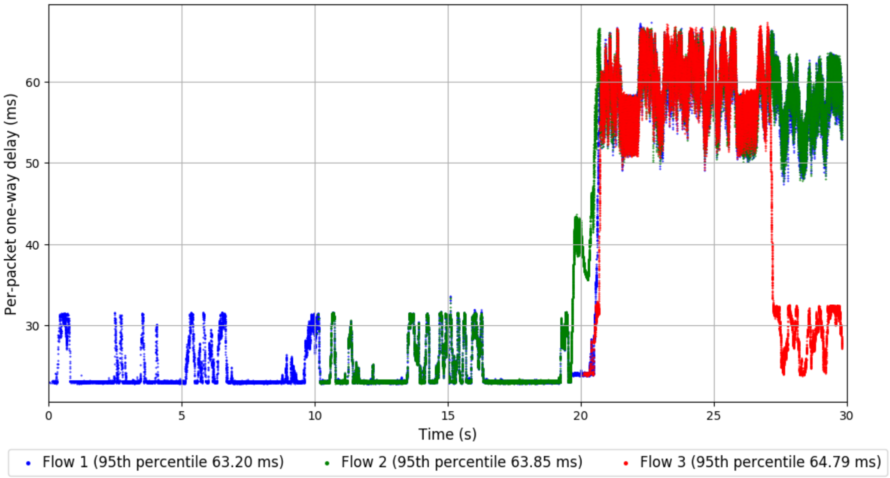




```
Run 10: Statistics of PCC

Start at: 2018-01-26 14:13:02
End at: 2018-01-26 14:13:32
Local clock offset: 1.695 ms
Remote clock offset: -0.491 ms

# Below is generated by plot.py at 2018-01-26 18:19:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.49 Mbit/s
95th percentile per-packet one-way delay: 63.871 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 23.51 Mbit/s
95th percentile per-packet one-way delay: 63.195 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 27.84 Mbit/s
95th percentile per-packet one-way delay: 63.850 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 28.72 Mbit/s
95th percentile per-packet one-way delay: 64.790 ms
Loss rate: 1.45%
```

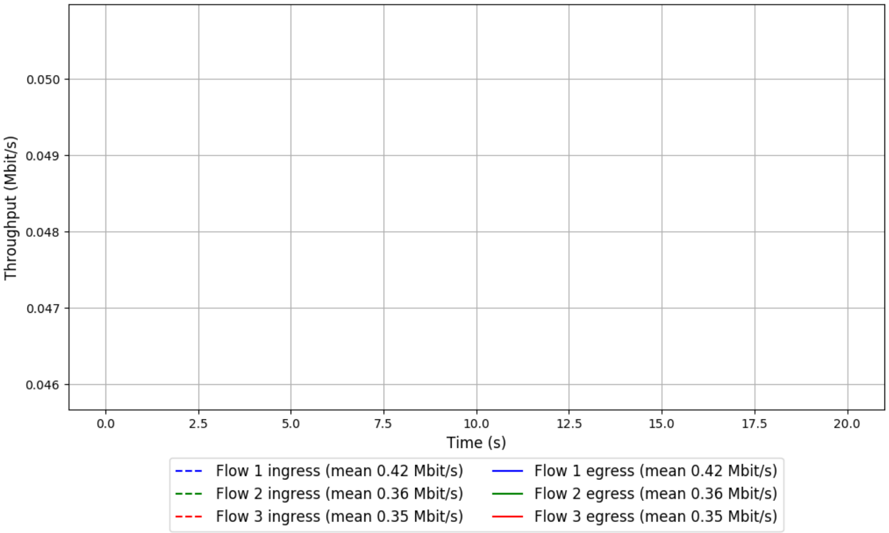
Run 10: Report of PCC — Data Link

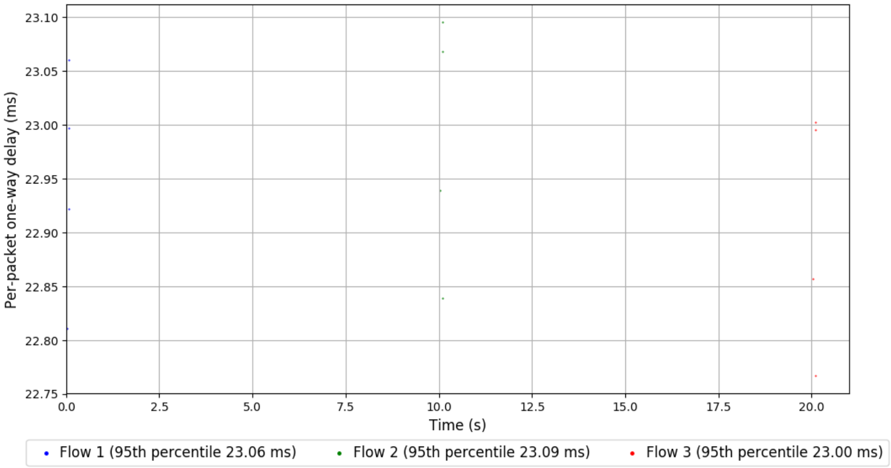




```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-26 10:55:52
End at: 2018-01-26 10:56:22
Local clock offset: 1.278 ms
Remote clock offset: -0.097 ms
```

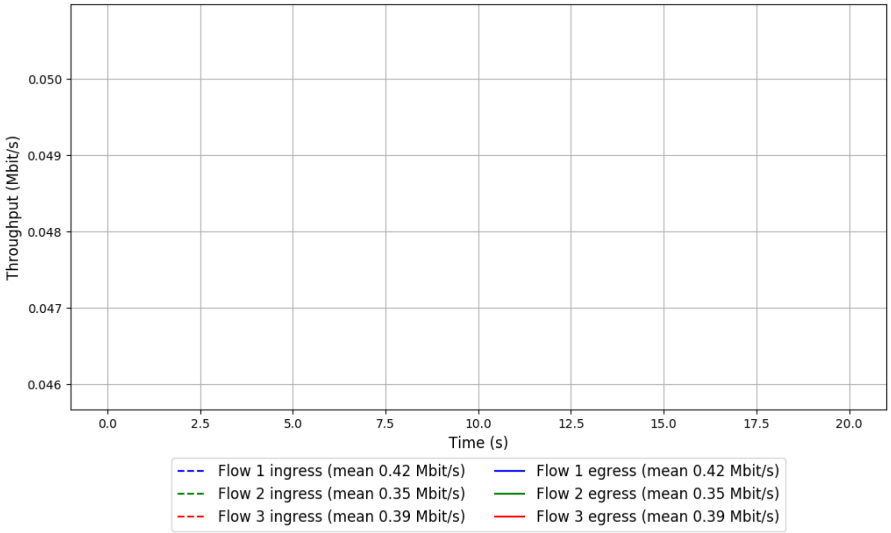
Run 1: Report of QUIC Cubic — Data Link

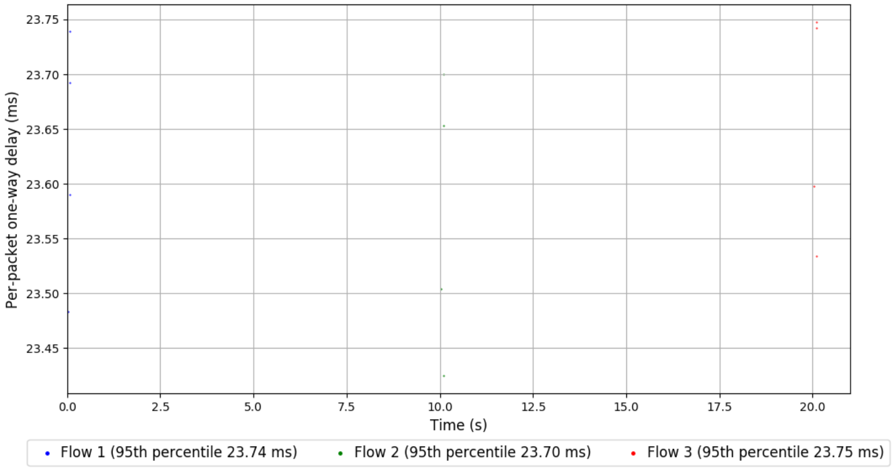




```
Run 2: Statistics of QUIC Cubic

Start at: 2018-01-26 11:18:00
End at: 2018-01-26 11:18:30
Local clock offset: 1.329 ms
Remote clock offset: -0.724 ms
```

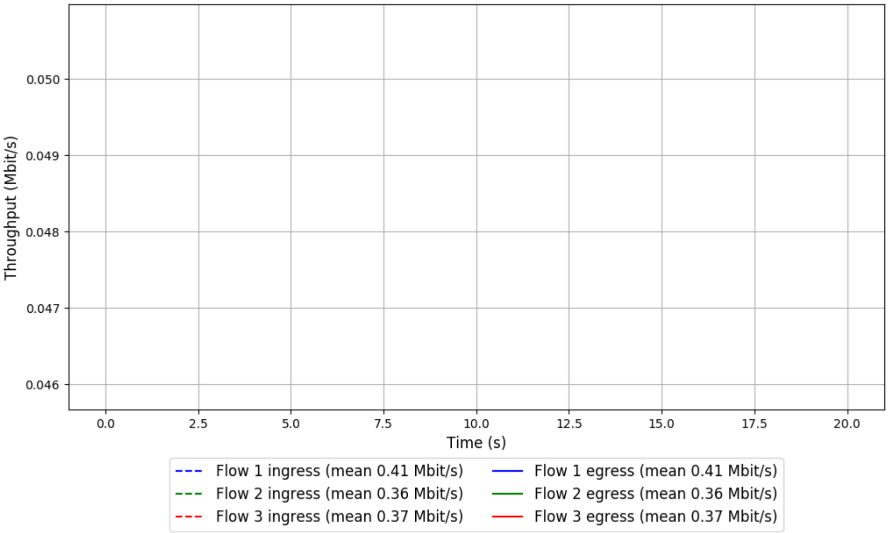
Run 2: Report of QUIC Cubic — Data Link

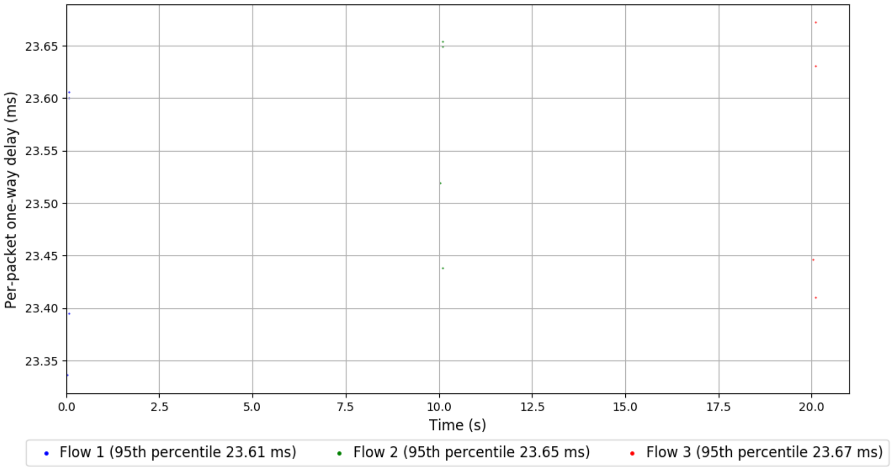




```
Run 3: Statistics of QUIC Cubic

Start at: 2018-01-26 11:39:54
End at: 2018-01-26 11:40:24
Local clock offset: 1.282 ms
Remote clock offset: -0.421 ms
```

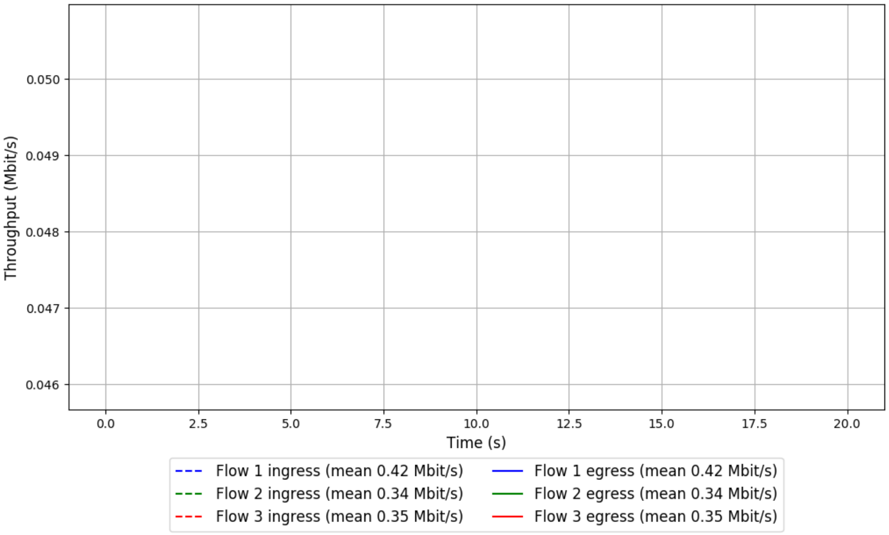
Run 3: Report of QUIC Cubic — Data Link

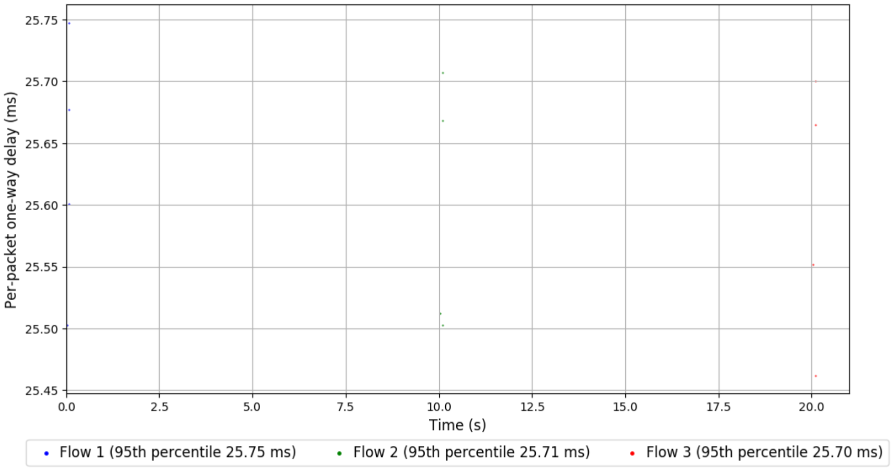




```
Run 4: Statistics of QUIC Cubic

Start at: 2018-01-26 12:01:50
End at: 2018-01-26 12:02:20
Local clock offset: 1.314 ms
Remote clock offset: -1.828 ms
```

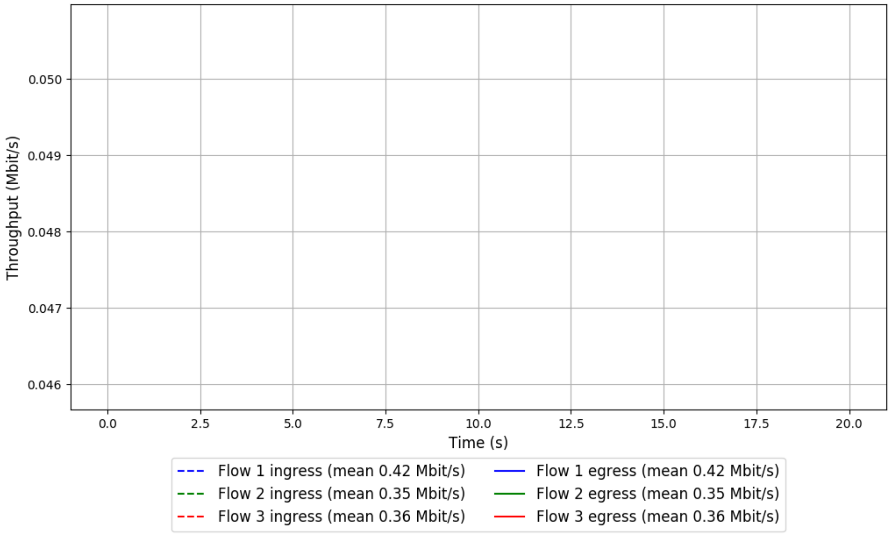
Run 4: Report of QUIC Cubic — Data Link

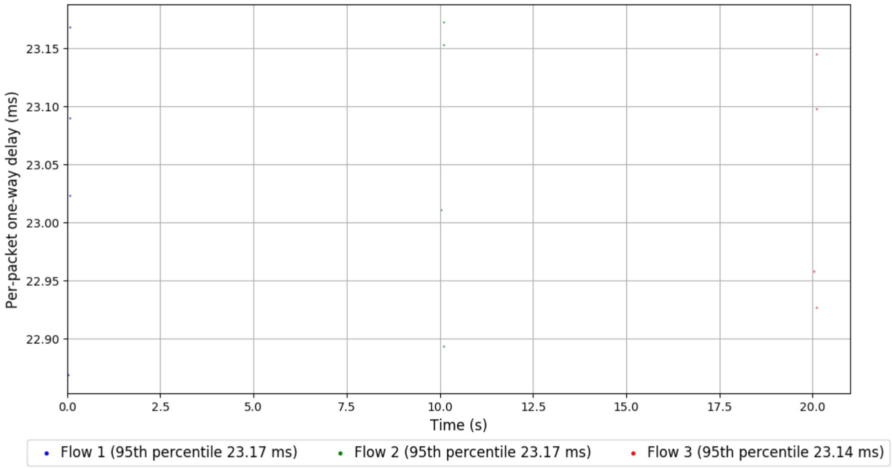




```
Run 5: Statistics of QUIC Cubic

Start at: 2018-01-26 12:23:36
End at: 2018-01-26 12:24:06
Local clock offset: 1.332 ms
Remote clock offset: 0.938 ms
```

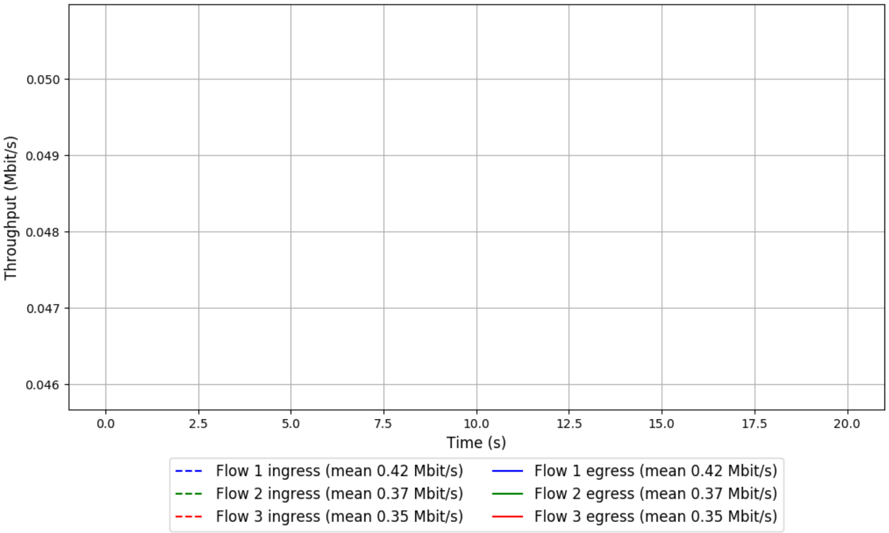
Run 5: Report of QUIC Cubic — Data Link

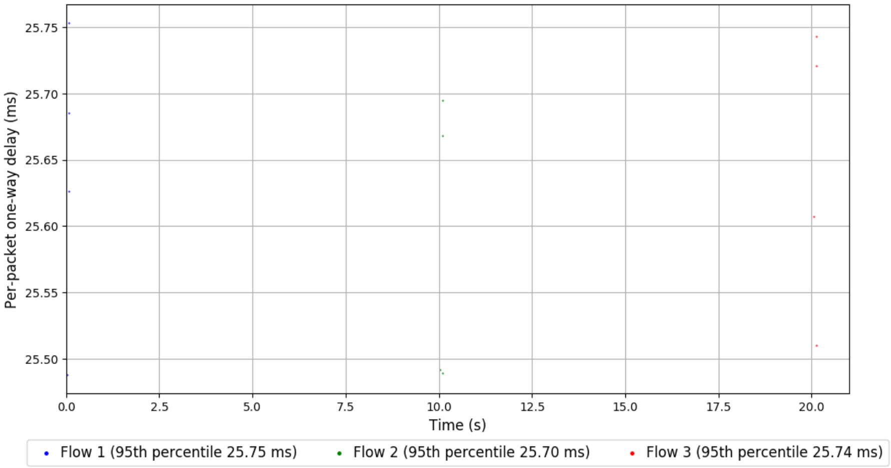




```
Run 6: Statistics of QUIC Cubic

Start at: 2018-01-26 12:45:27
End at: 2018-01-26 12:45:57
Local clock offset: 1.421 ms
Remote clock offset: -1.362 ms
```

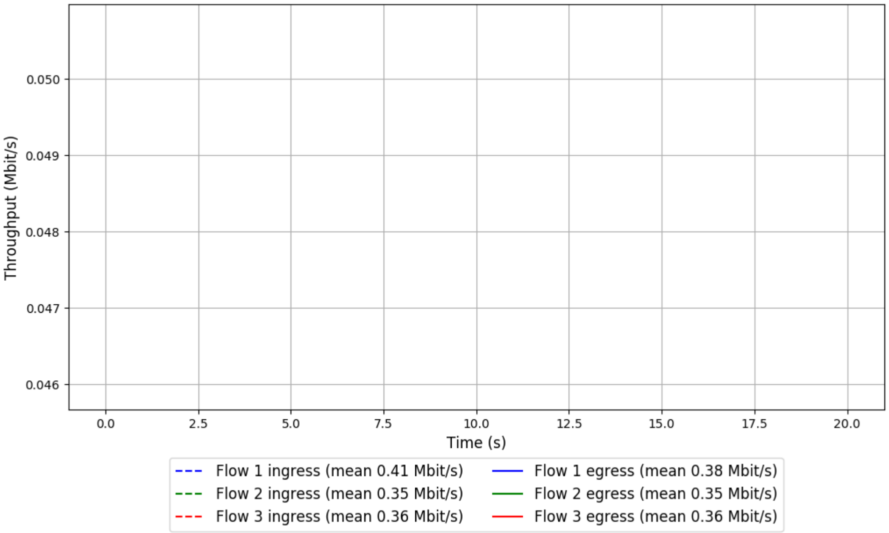
Run 6: Report of QUIC Cubic — Data Link

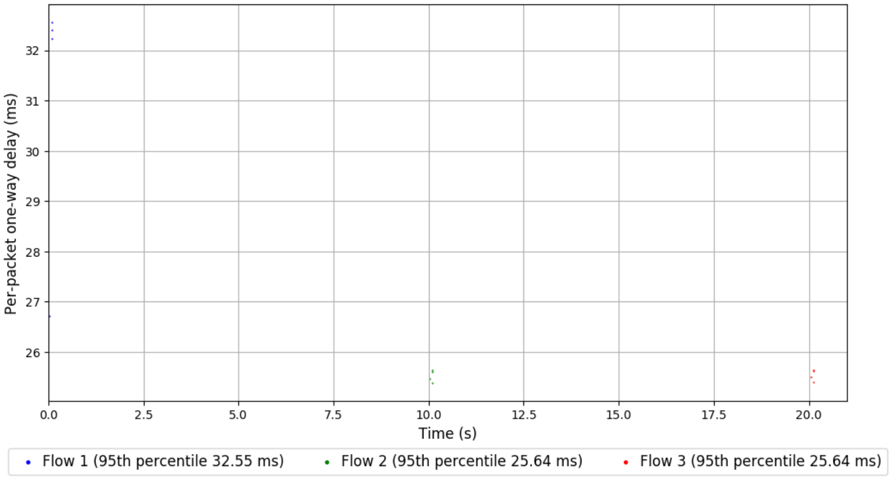




```
Run 7: Statistics of QUIC Cubic

Start at: 2018-01-26 13:07:40
End at: 2018-01-26 13:08:10
Local clock offset: 1.414 ms
Remote clock offset: -1.473 ms
```

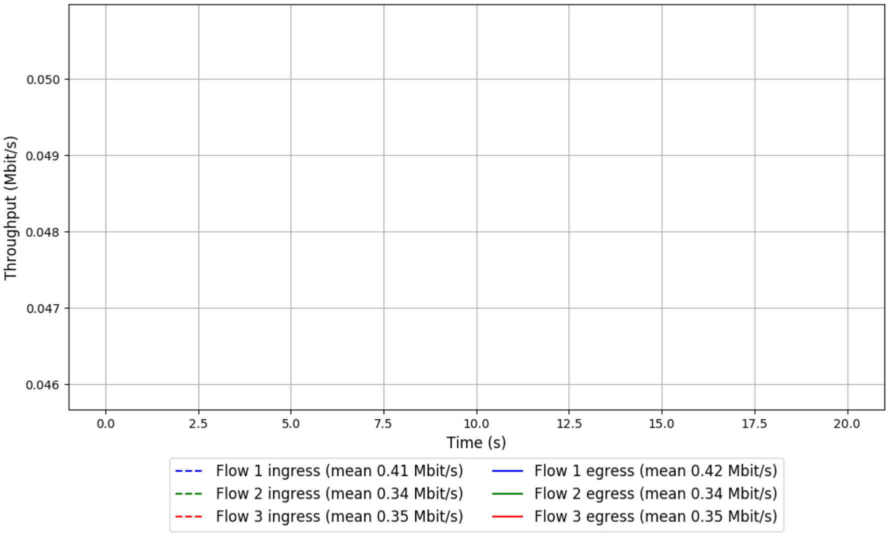
Run 7: Report of QUIC Cubic — Data Link

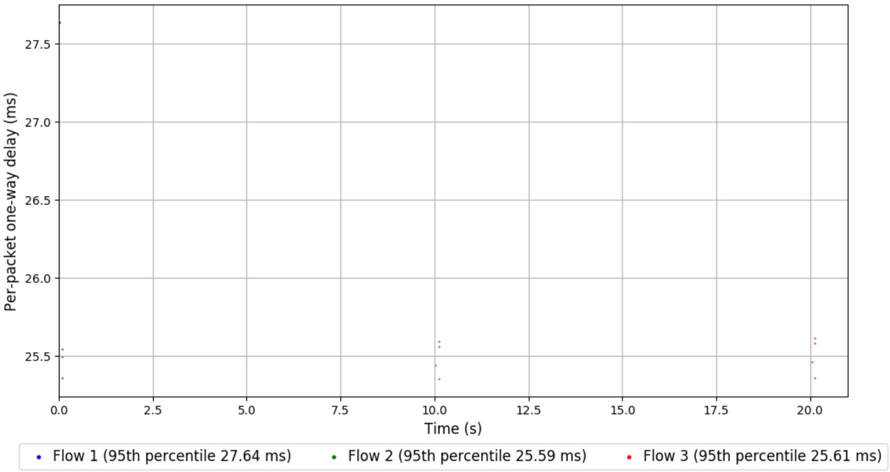




```
Run 8: Statistics of QUIC Cubic

Start at: 2018-01-26 13:30:00
End at: 2018-01-26 13:30:30
Local clock offset: 1.521 ms
Remote clock offset: -1.886 ms
```

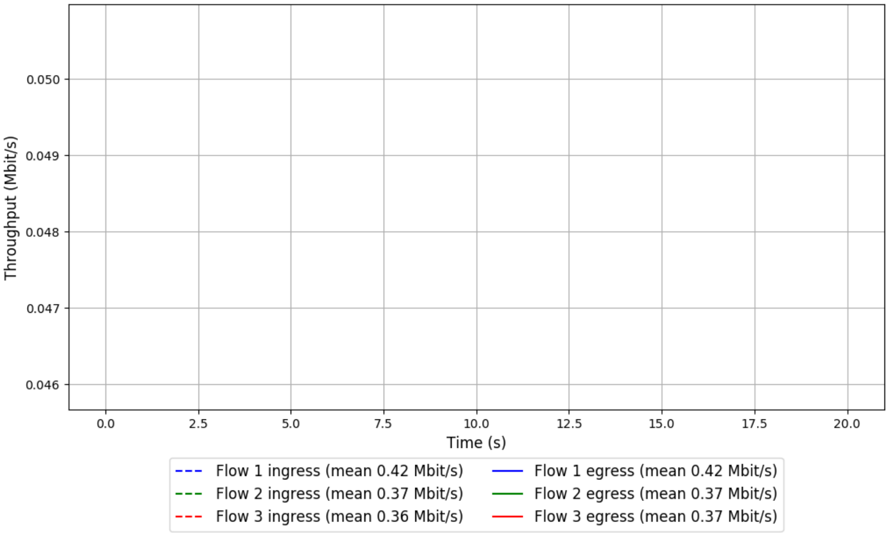
Run 8: Report of QUIC Cubic — Data Link

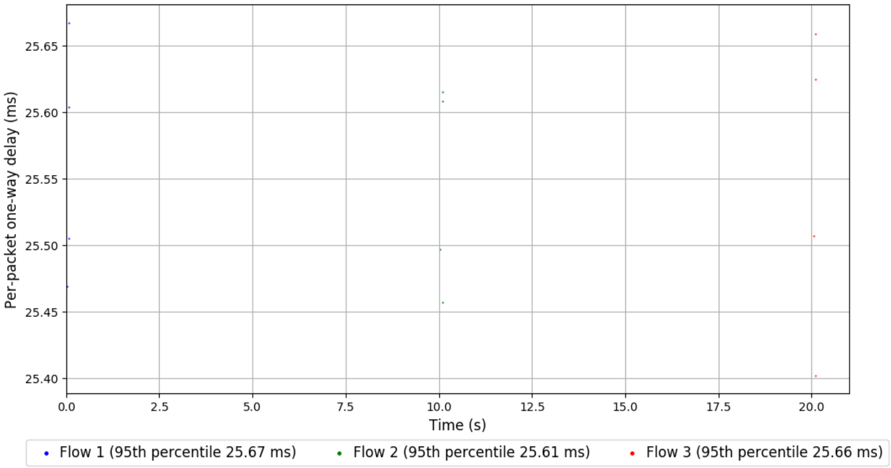




```
Run 9: Statistics of QUIC Cubic

Start at: 2018-01-26 13:52:06
End at: 2018-01-26 13:52:36
Local clock offset: 1.666 ms
Remote clock offset: -2.582 ms
```

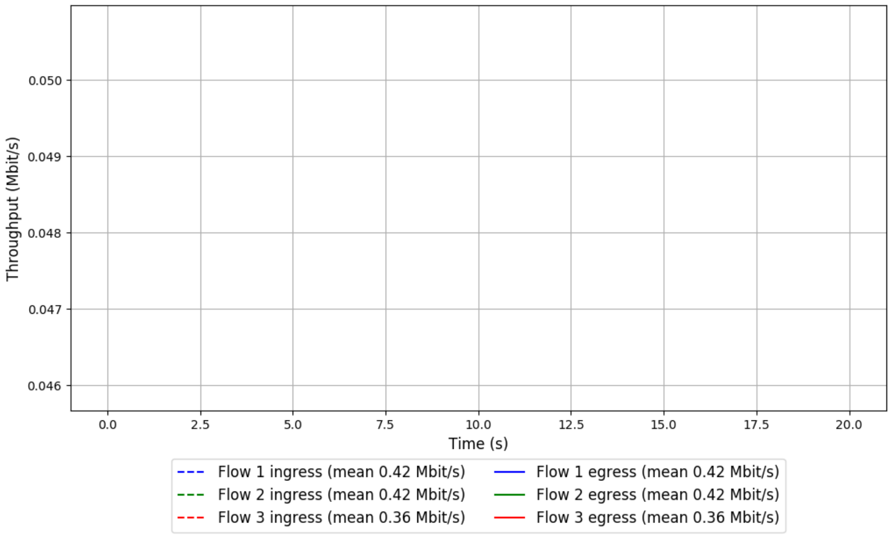
Run 9: Report of QUIC Cubic — Data Link

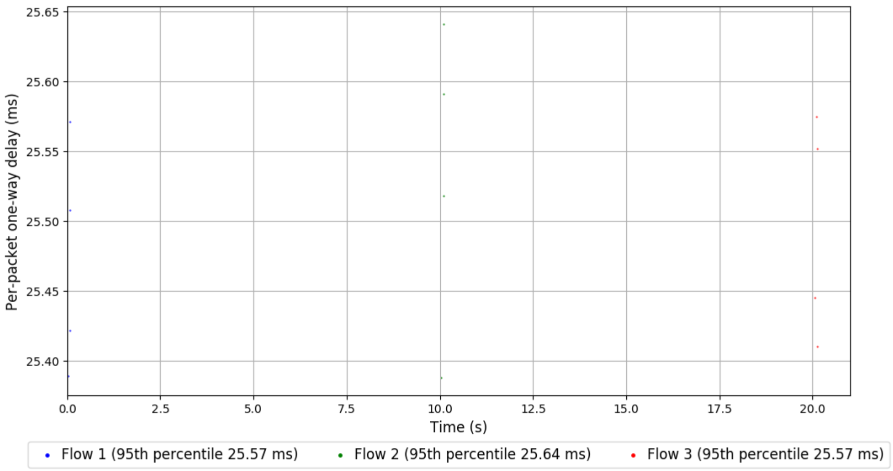




```
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-26 14:14:23
End at: 2018-01-26 14:14:53
Local clock offset: 1.7 ms
Remote clock offset: -3.007 ms
```

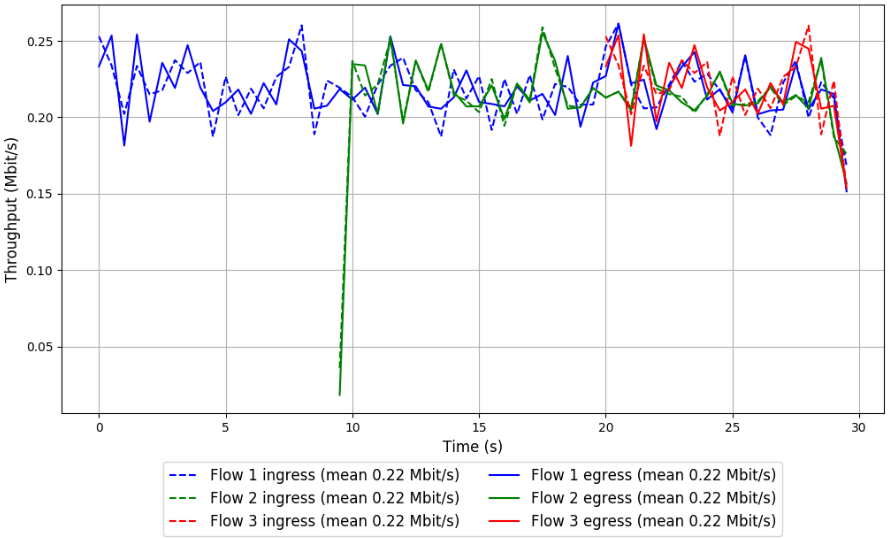
Run 10: Report of QUIC Cubic — Data Link

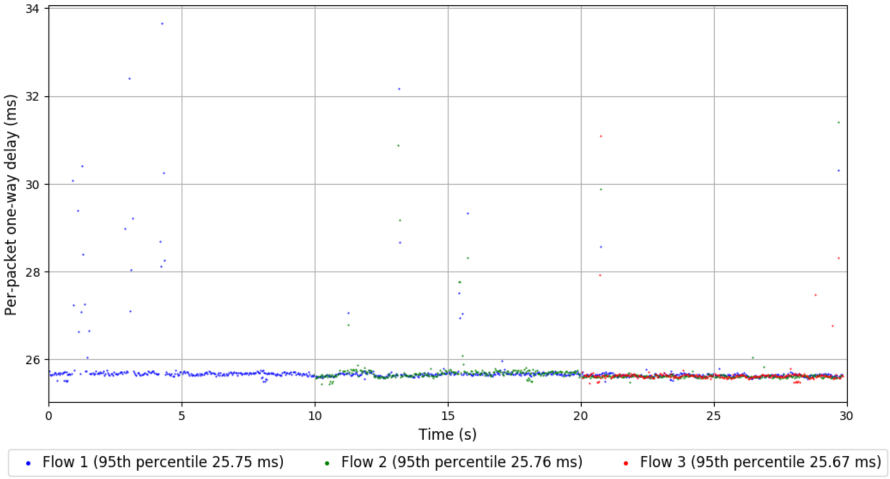




```
Run 1: Statistics of SCReAM

Start at: 2018-01-26 10:44:50
End at: 2018-01-26 10:45:20
Local clock offset: 1.422 ms
Remote clock offset: -2.848 ms

# Below is generated by plot.py at 2018-01-26 18:19:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 25.750 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 25.750 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 25.757 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 25.668 ms
Loss rate: 0.39%
```

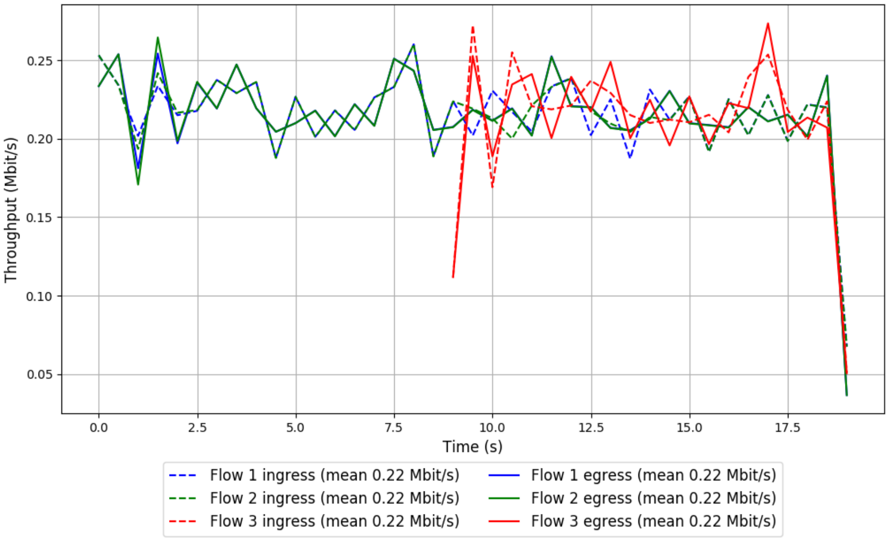
Run 1: Report of SCReAM — Data Link

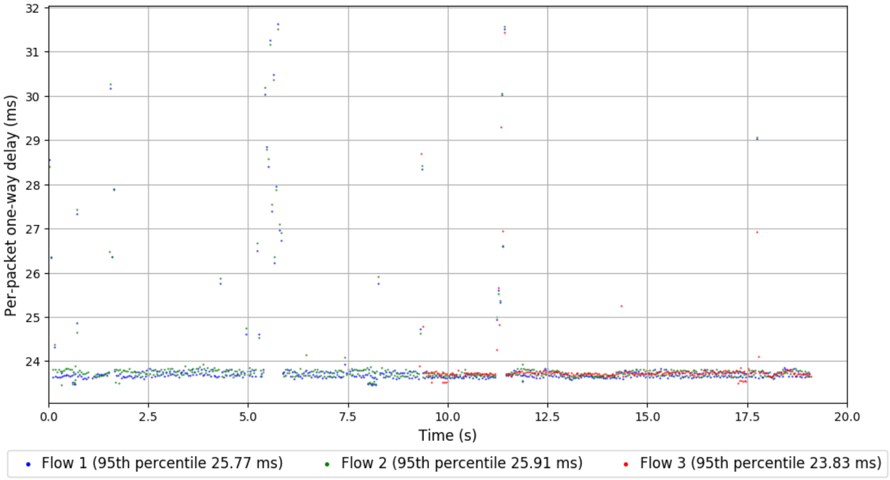




```
Run 2: Statistics of SCReAM

Start at: 2018-01-26 11:07:00
End at: 2018-01-26 11:07:30
Local clock offset: 1.296 ms
Remote clock offset: -0.628 ms
```

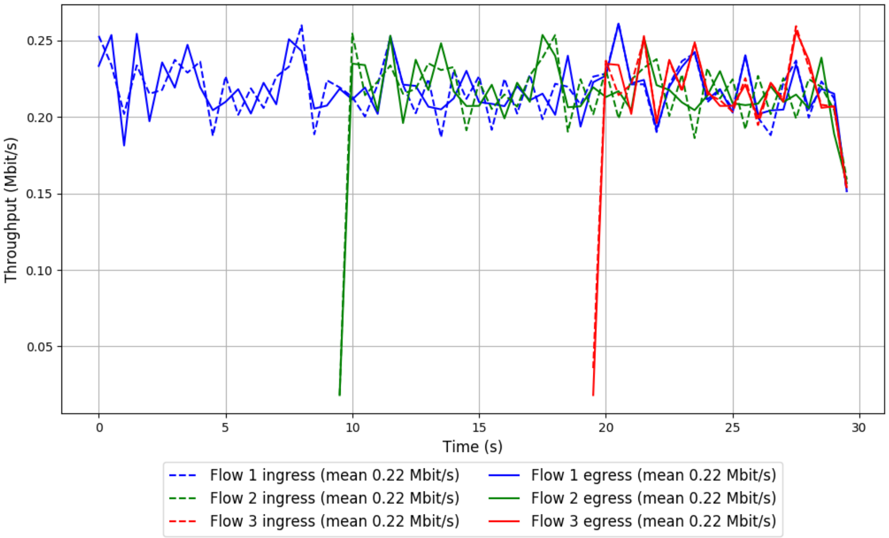
Run 2: Report of SCReAM — Data Link

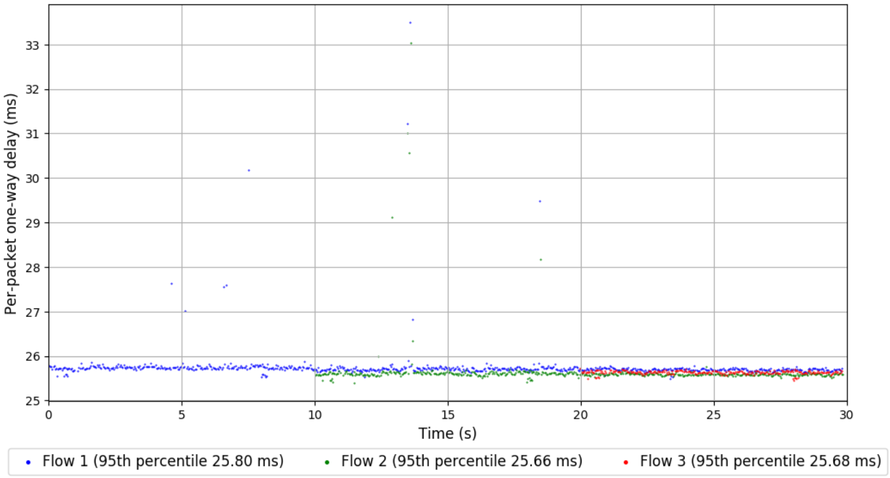




```
Run 3: Statistics of SCReAM

Start at: 2018-01-26 11:29:00
End at: 2018-01-26 11:29:30
Local clock offset: 1.305 ms
Remote clock offset: -2.58 ms

# Below is generated by plot.py at 2018-01-26 18:19:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 25.772 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 25.796 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 25.656 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 25.681 ms
Loss rate: 0.35%
```

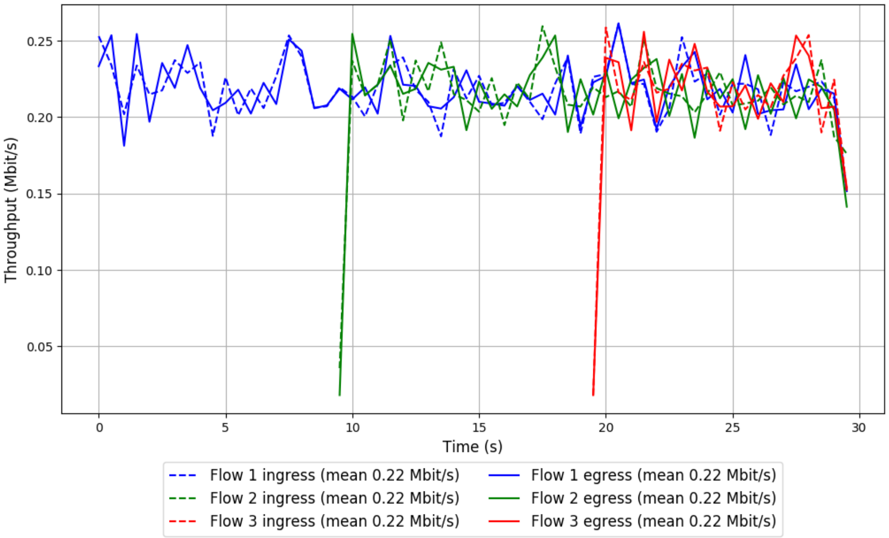
Run 3: Report of SCReAM — Data Link

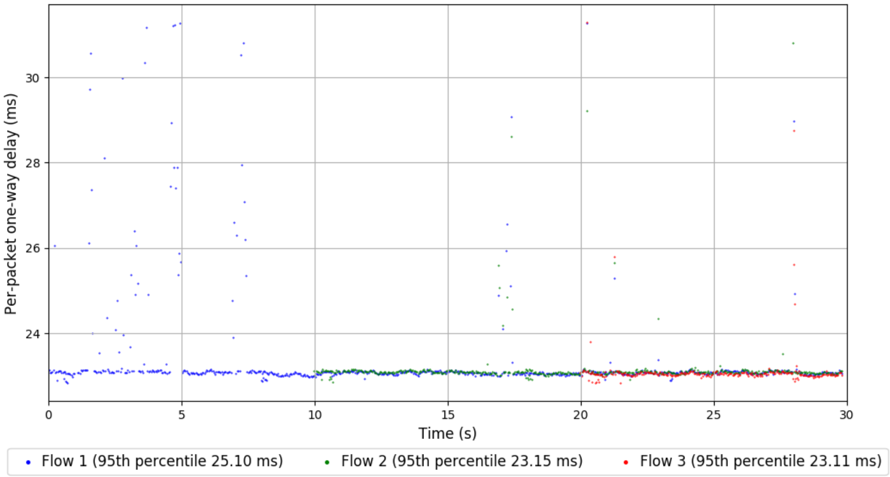




```
Run 4: Statistics of SCReAM

Start at: 2018-01-26 11:50:53
End at: 2018-01-26 11:51:23
Local clock offset: 1.208 ms
Remote clock offset: 0.281 ms

# Below is generated by plot.py at 2018-01-26 18:19:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 23.268 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 25.100 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.150 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.115 ms
Loss rate: 0.35%
```

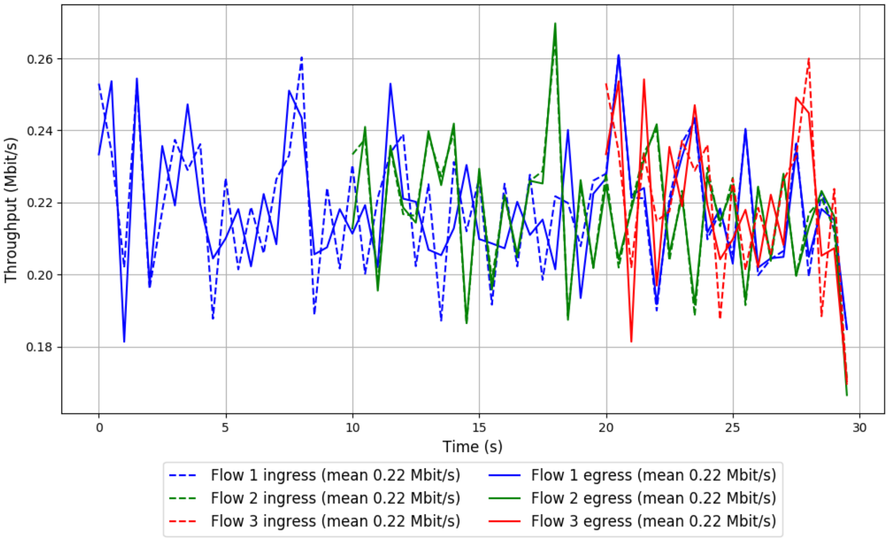
Run 4: Report of SCReAM — Data Link

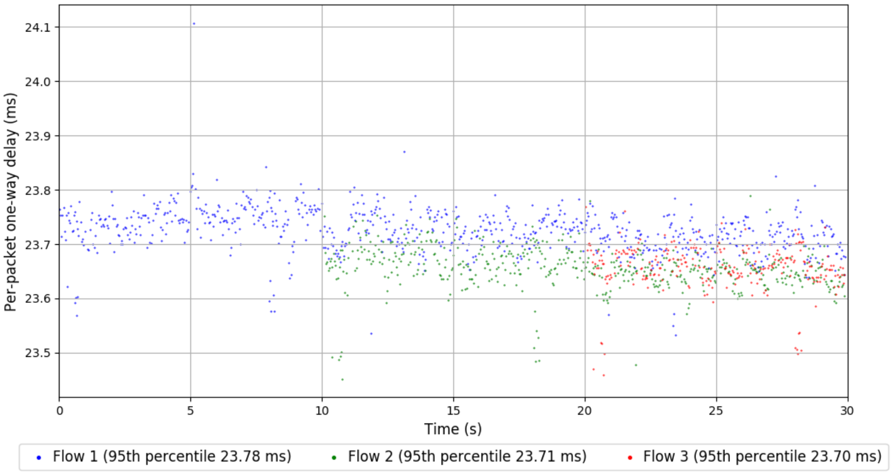




```
Run 5: Statistics of SCReAM

Start at: 2018-01-26 12:12:45
End at: 2018-01-26 12:13:15
Local clock offset: 1.346 ms
Remote clock offset: 0.283 ms

# Below is generated by plot.py at 2018-01-26 18:19:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 23.770 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.782 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.713 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.705 ms
Loss rate: 0.35%
```

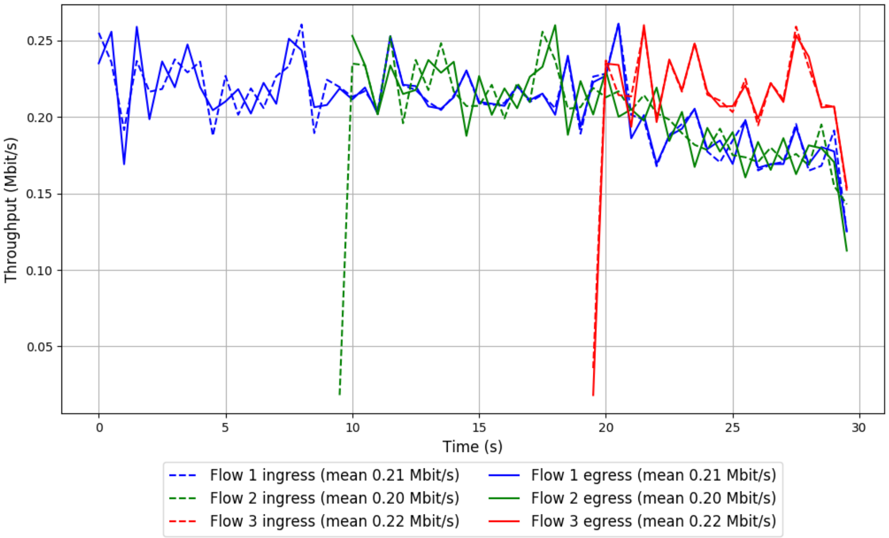
Run 5: Report of SCReAM — Data Link

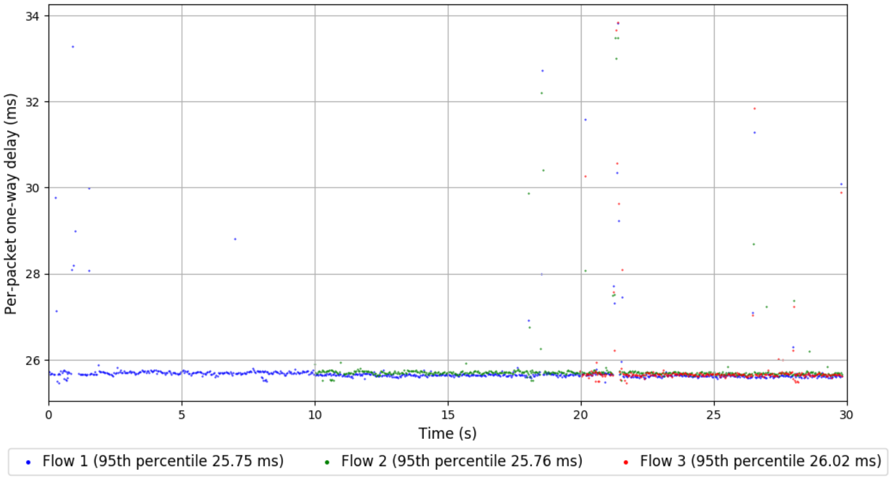




```
Run 6: Statistics of SCReAM

Start at: 2018-01-26 12:34:31
End at: 2018-01-26 12:35:01
Local clock offset: 1.371 ms
Remote clock offset: -1.471 ms

# Below is generated by plot.py at 2018-01-26 18:19:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 25.756 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.747 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 25.759 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 26.016 ms
Loss rate: 0.35%
```

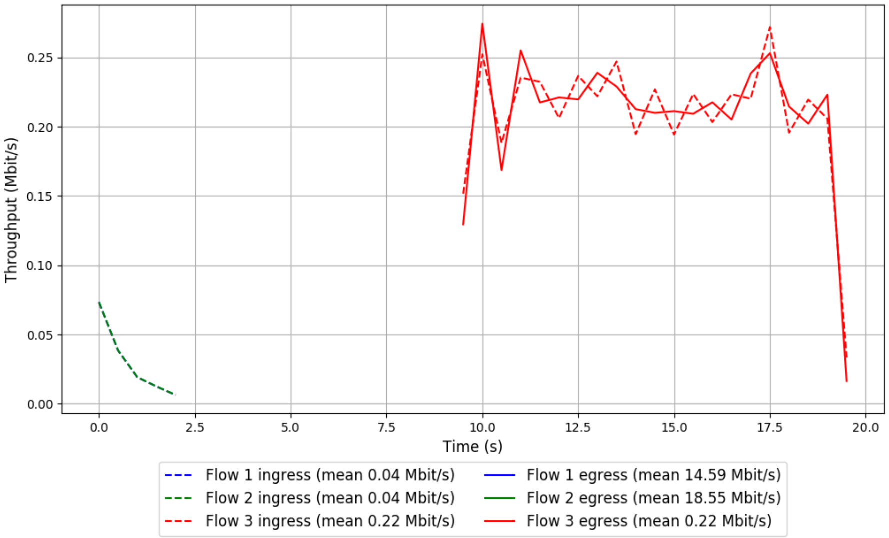
Run 6: Report of SCReAM — Data Link

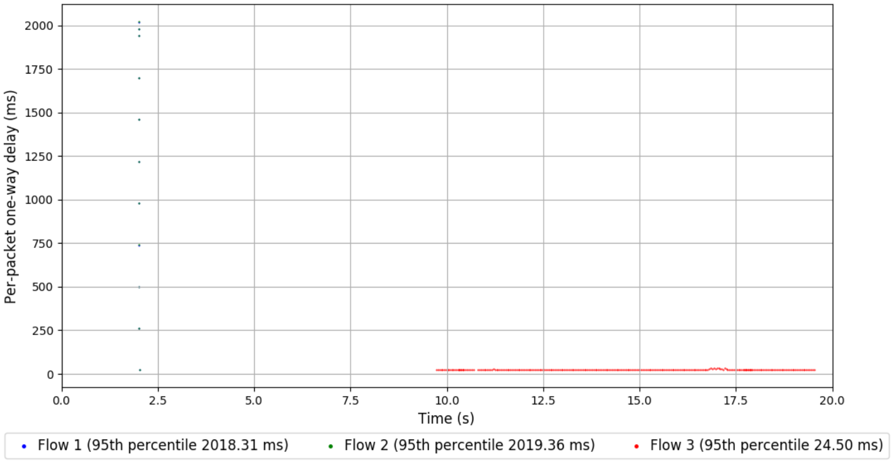




```
Run 7: Statistics of SCReAM

Start at: 2018-01-26 12:56:44
End at: 2018-01-26 12:57:14
Local clock offset: 1.459 ms
Remote clock offset: 1.236 ms
```

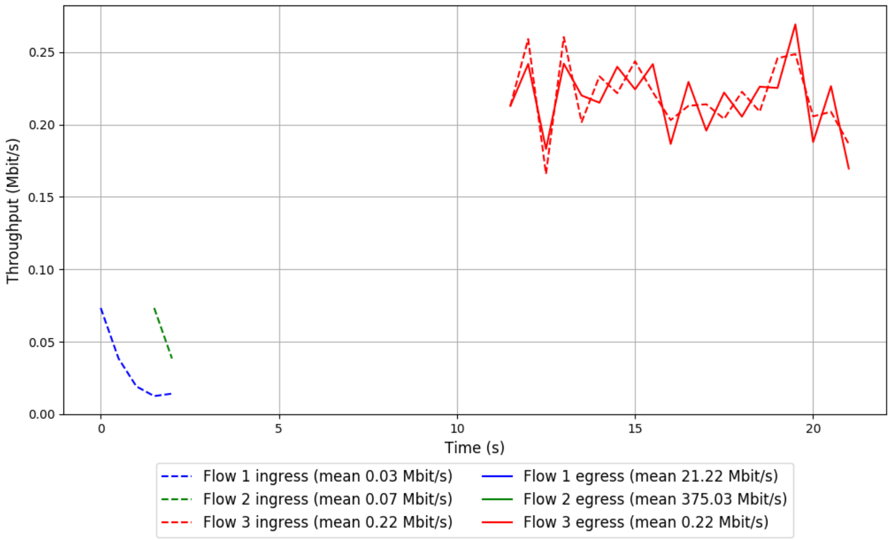
Run 7: Report of SCReAM — Data Link

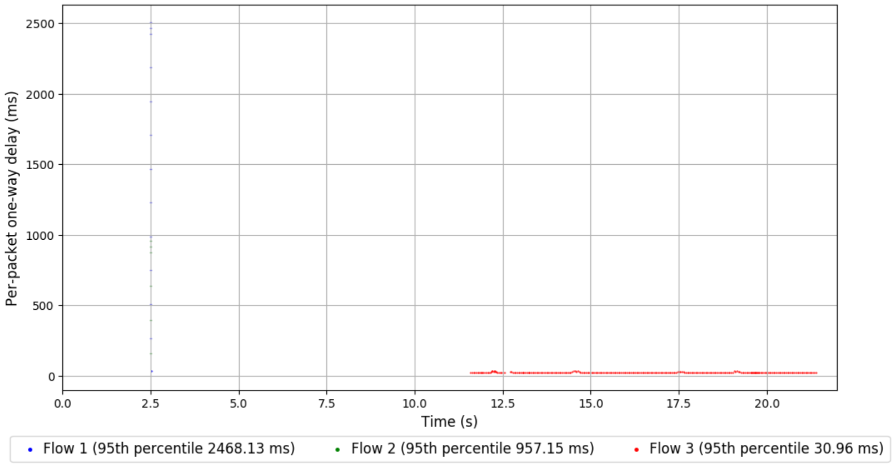




```
Run 8: Statistics of SCReAM

Start at: 2018-01-26 13:18:56
End at: 2018-01-26 13:19:26
Local clock offset: 1.571 ms
Remote clock offset: 0.311 ms
```

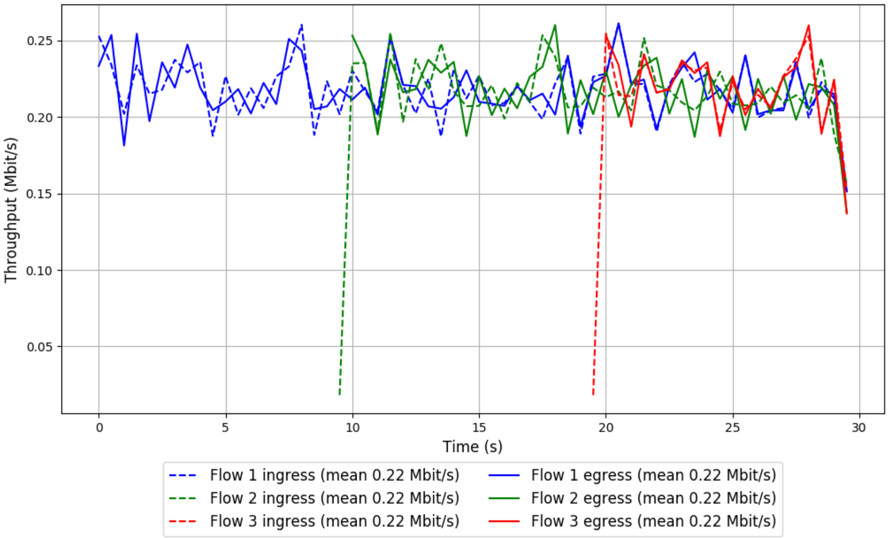
Run 8: Report of SCReAM — Data Link

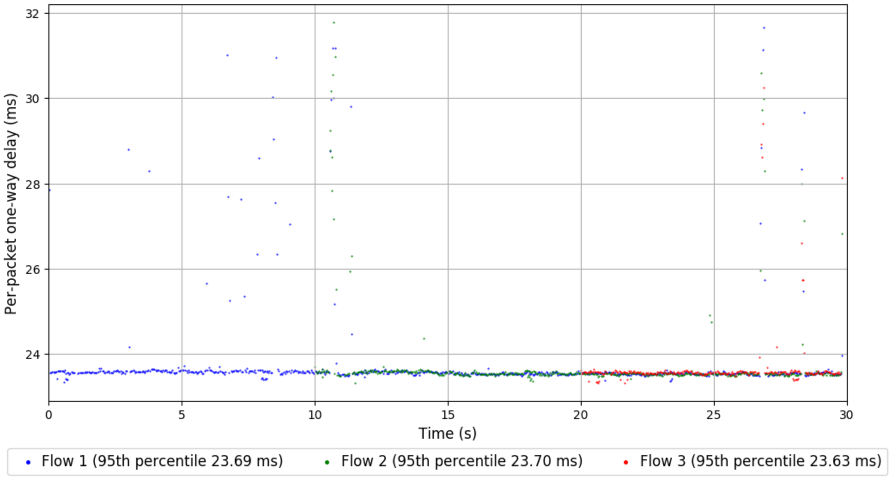




```
Run 9: Statistics of SCReAM

Start at: 2018-01-26 13:41:17
End at: 2018-01-26 13:41:47
Local clock offset: 1.626 ms
Remote clock offset: -0.236 ms

# Below is generated by plot.py at 2018-01-26 18:19:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 23.691 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.691 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.697 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.627 ms
Loss rate: 0.74%
```

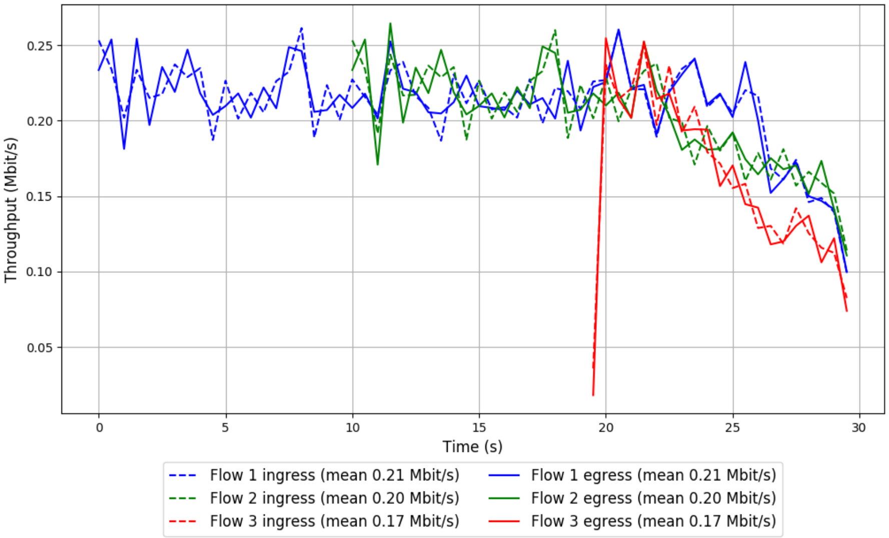
Run 9: Report of SCReAM — Data Link

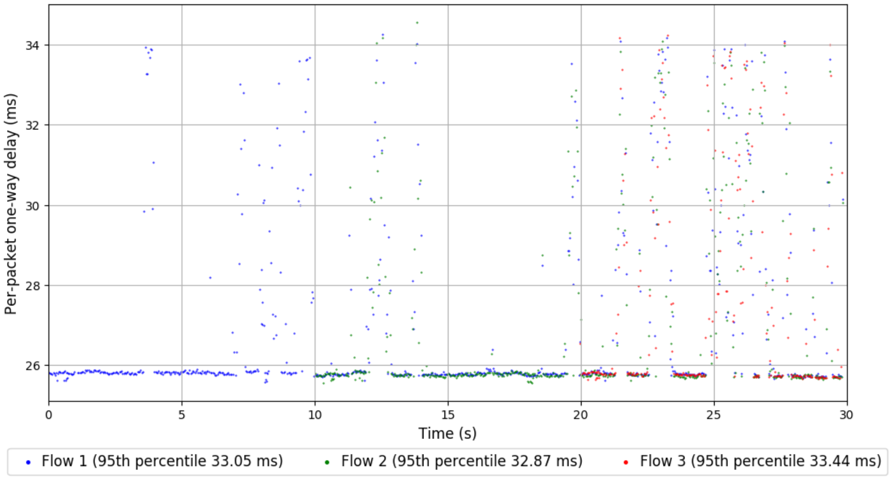




```
Run 10: Statistics of SCReAM

Start at: 2018-01-26 14:03:17
End at: 2018-01-26 14:03:47
Local clock offset: 1.751 ms
Remote clock offset: -2.84 ms

# Below is generated by plot.py at 2018-01-26 18:19:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 33.061 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.054 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 32.866 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 33.435 ms
Loss rate: 1.06%
```

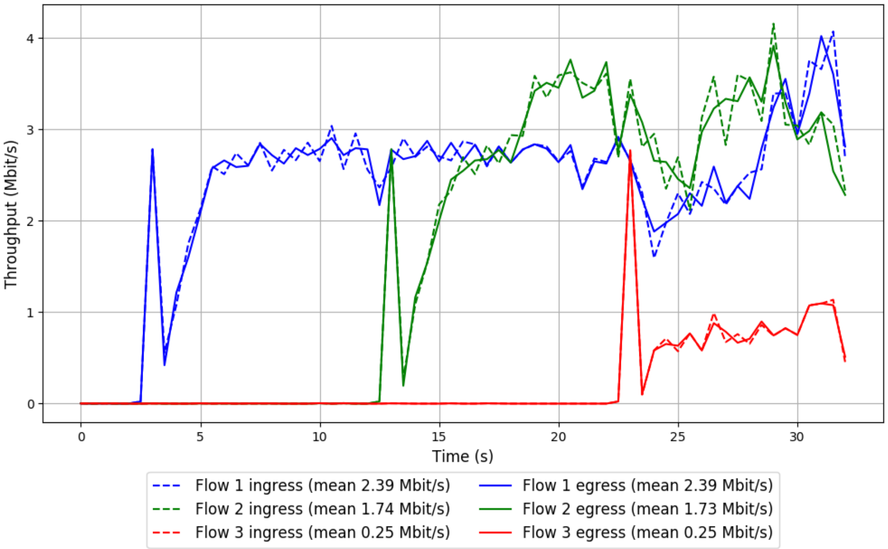
Run 10: Report of SCReAM — Data Link

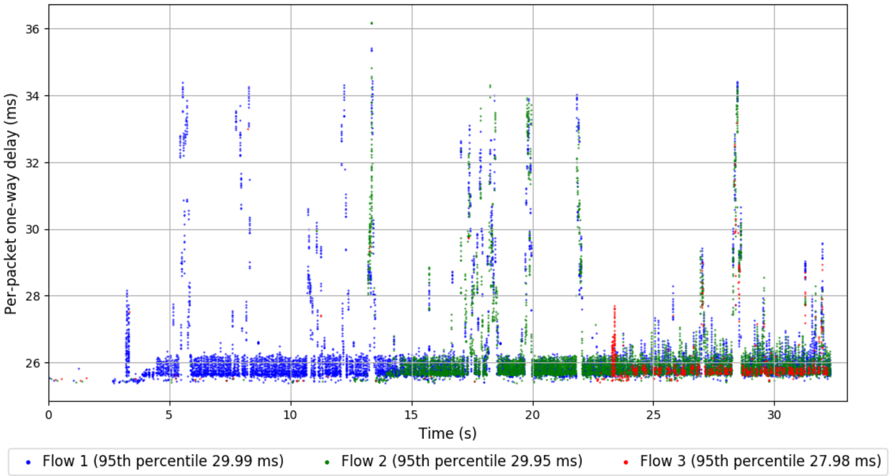




```
Run 1: Statistics of WebRTC media

Start at: 2018-01-26 10:53:14
End at: 2018-01-26 10:53:44
Local clock offset: 1.384 ms
Remote clock offset: -2.689 ms

# Below is generated by plot.py at 2018-01-26 18:19:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.36 Mbit/s
95th percentile per-packet one-way delay: 29.875 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 29.989 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 1.73 Mbit/s
95th percentile per-packet one-way delay: 29.955 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 27.978 ms
Loss rate: 0.01%
```

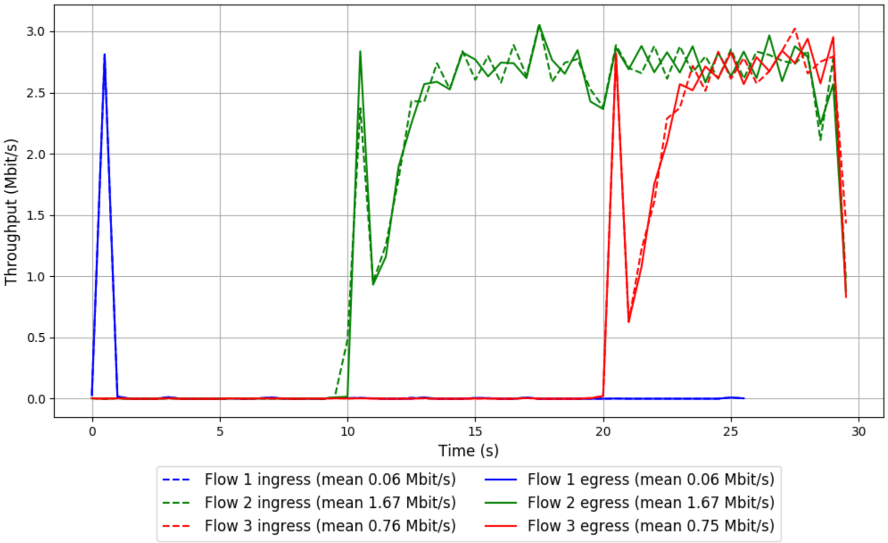
Run 1: Report of WebRTC media — Data Link

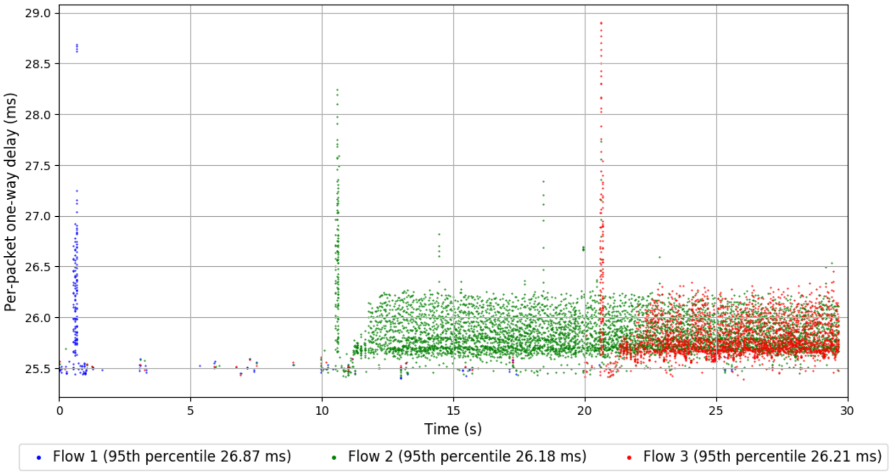




```
Run 2: Statistics of WebRTC media

Start at: 2018-01-26 11:15:20
End at: 2018-01-26 11:15:50
Local clock offset: 1.314 ms
Remote clock offset: -2.714 ms

# Below is generated by plot.py at 2018-01-26 18:19:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.47 Mbit/s
95th percentile per-packet one-way delay: 26.204 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 26.866 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.67 Mbit/s
95th percentile per-packet one-way delay: 26.183 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 0.75 Mbit/s
95th percentile per-packet one-way delay: 26.213 ms
Loss rate: 1.37%
```

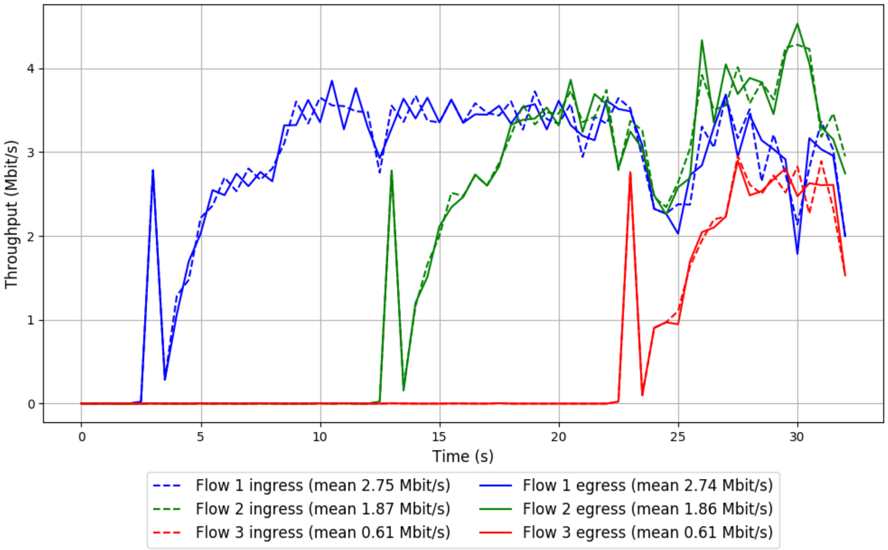
Run 2: Report of WebRTC media — Data Link

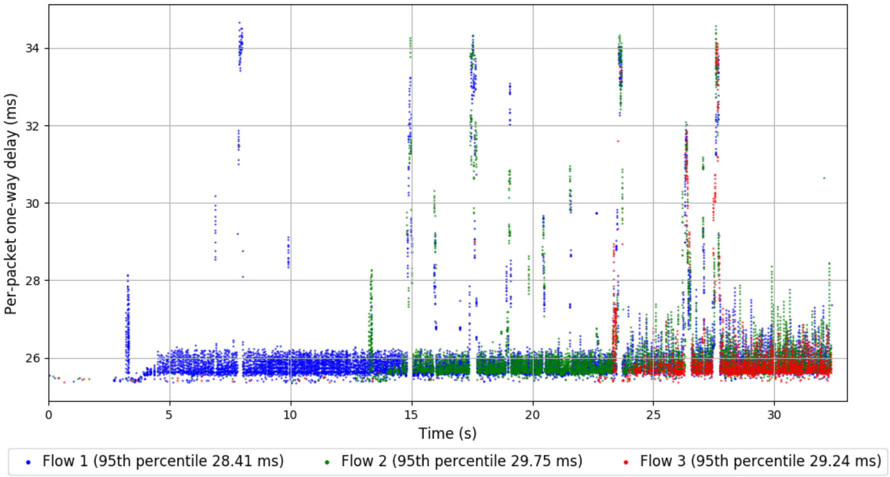




```
Run 3: Statistics of WebRTC media

Start at: 2018-01-26 11:37:15
End at: 2018-01-26 11:37:45
Local clock offset: 1.206 ms
Remote clock offset: -2.538 ms

# Below is generated by plot.py at 2018-01-26 18:19:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.20 Mbit/s
95th percentile per-packet one-way delay: 29.041 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 2.74 Mbit/s
95th percentile per-packet one-way delay: 28.411 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 1.86 Mbit/s
95th percentile per-packet one-way delay: 29.755 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 29.241 ms
Loss rate: 0.01%
```

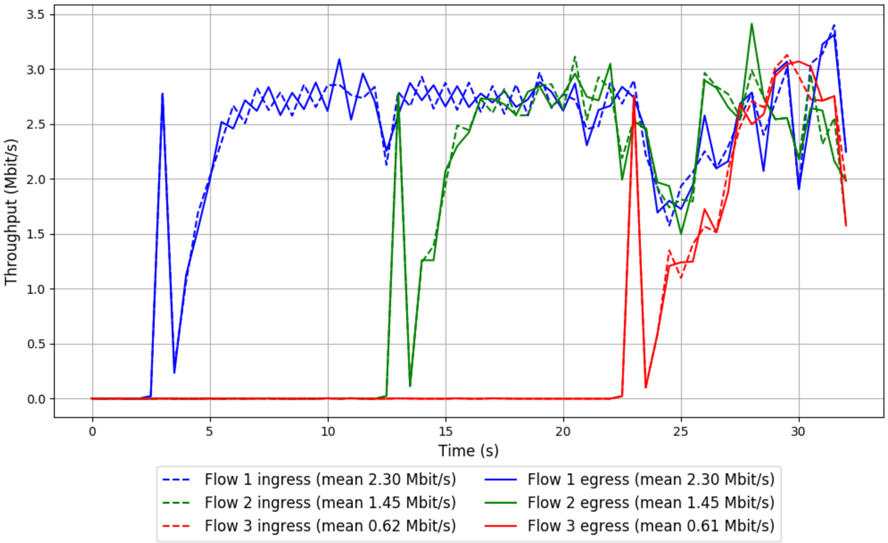
Run 3: Report of WebRTC media — Data Link

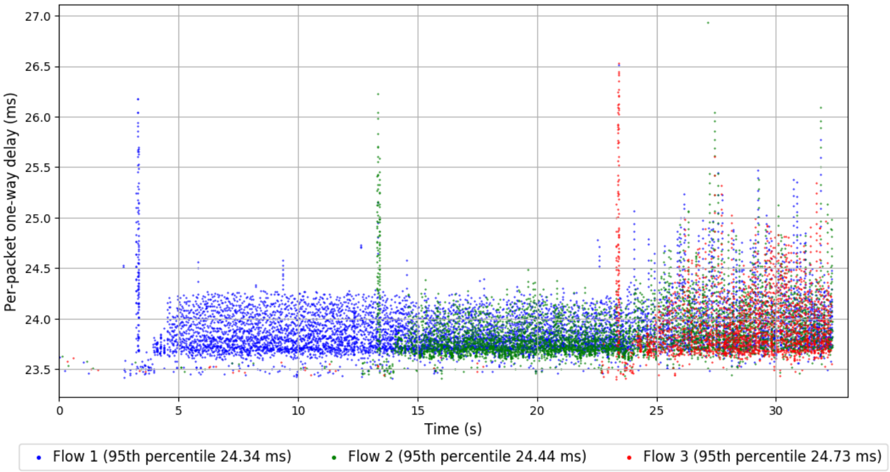




```
Run 4: Statistics of WebRTC media

Start at: 2018-01-26 11:59:10
End at: 2018-01-26 11:59:40
Local clock offset: 1.312 ms
Remote clock offset: 0.094 ms

# Below is generated by plot.py at 2018-01-26 18:19:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.35 Mbit/s
95th percentile per-packet one-way delay: 24.472 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 24.341 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 24.441 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 24.729 ms
Loss rate: 0.98%
```

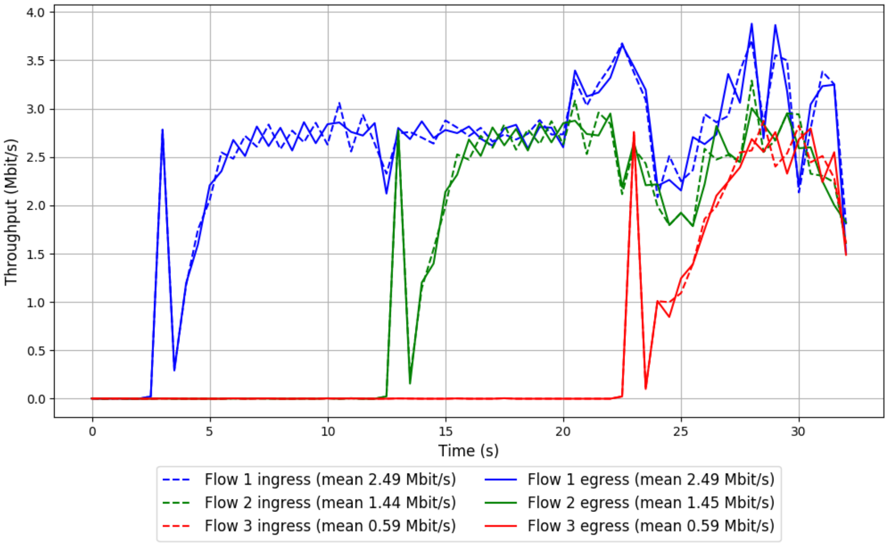
Run 4: Report of WebRTC media — Data Link

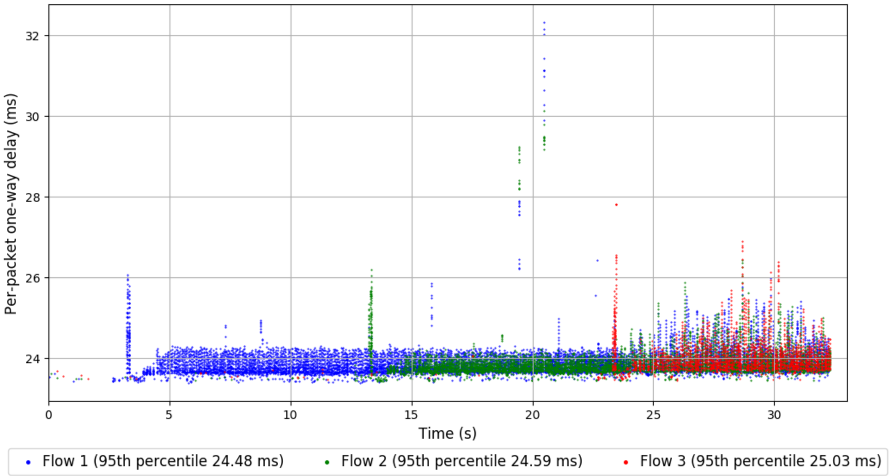




```
Run 5: Statistics of WebRTC media

Start at: 2018-01-26 12:20:57
End at: 2018-01-26 12:21:27
Local clock offset: 1.324 ms
Remote clock offset: 0.361 ms

# Below is generated by plot.py at 2018-01-26 18:19:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.51 Mbit/s
95th percentile per-packet one-way delay: 24.616 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 2.49 Mbit/s
95th percentile per-packet one-way delay: 24.475 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 24.586 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 25.030 ms
Loss rate: 0.31%
```

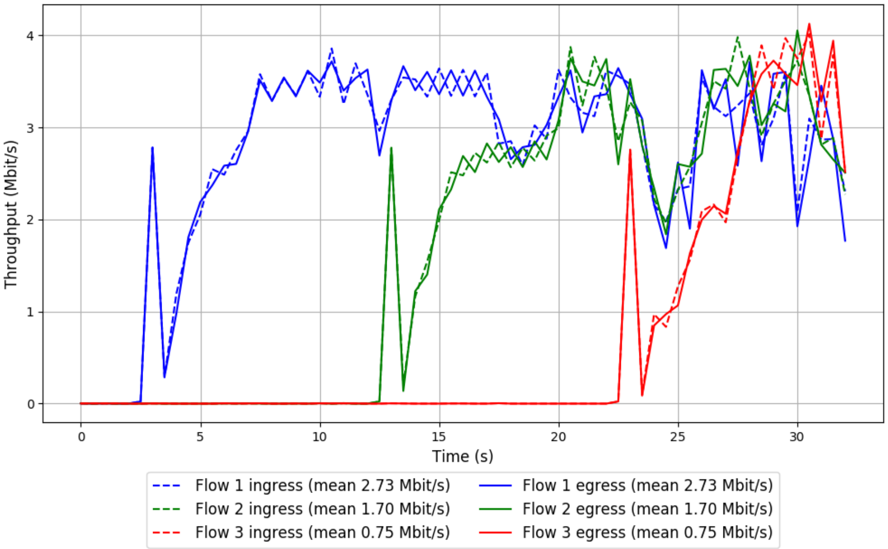
Run 5: Report of WebRTC media — Data Link

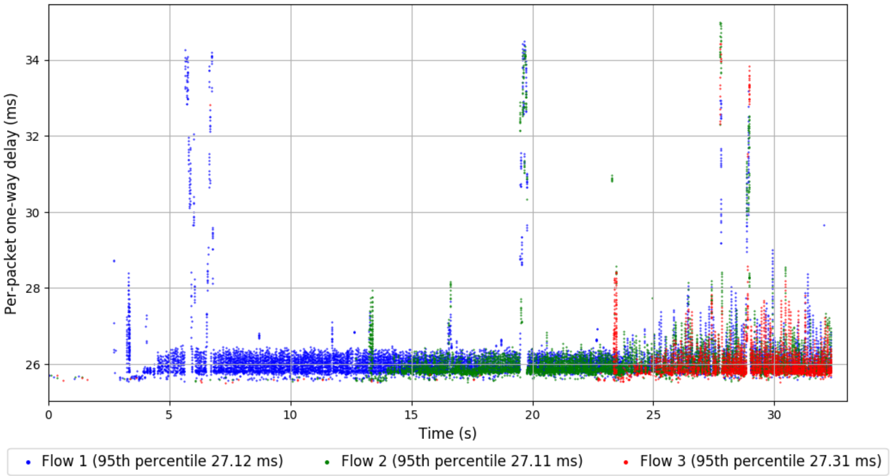




```
Run 6: Statistics of WebRTC media

Start at: 2018-01-26 12:42:49
End at: 2018-01-26 12:43:19
Local clock offset: 1.422 ms
Remote clock offset: -1.505 ms

# Below is generated by plot.py at 2018-01-26 18:19:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.16 Mbit/s
95th percentile per-packet one-way delay: 27.180 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 2.73 Mbit/s
95th percentile per-packet one-way delay: 27.120 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 1.70 Mbit/s
95th percentile per-packet one-way delay: 27.110 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 0.75 Mbit/s
95th percentile per-packet one-way delay: 27.313 ms
Loss rate: 0.21%
```

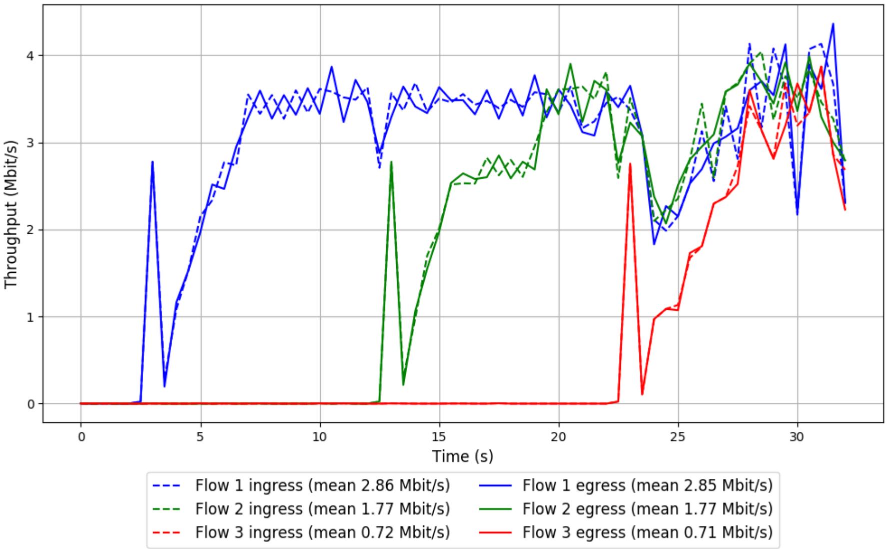
Run 6: Report of WebRTC media — Data Link

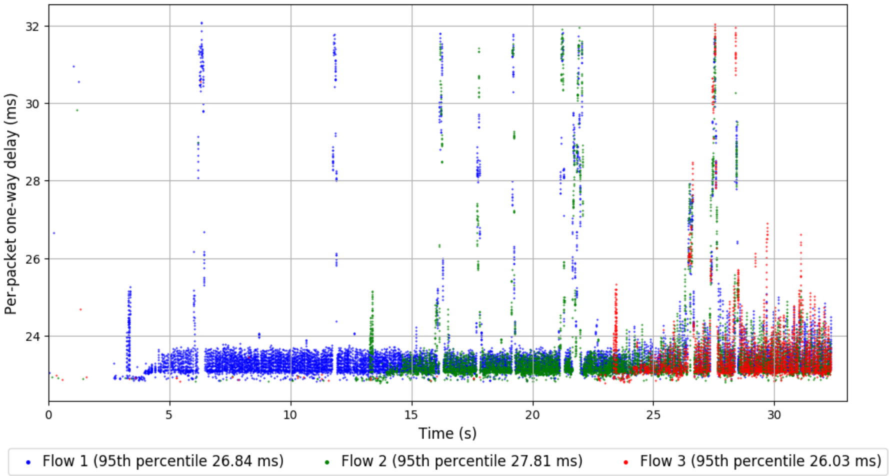




```
Run 7: Statistics of WebRTC media

Start at: 2018-01-26 13:05:00
End at: 2018-01-26 13:05:30
Local clock offset: 1.389 ms
Remote clock offset: 1.124 ms

# Below is generated by plot.py at 2018-01-26 18:19:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.31 Mbit/s
95th percentile per-packet one-way delay: 27.141 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 2.85 Mbit/s
95th percentile per-packet one-way delay: 26.845 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 1.77 Mbit/s
95th percentile per-packet one-way delay: 27.809 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.71 Mbit/s
95th percentile per-packet one-way delay: 26.028 ms
Loss rate: 1.03%
```

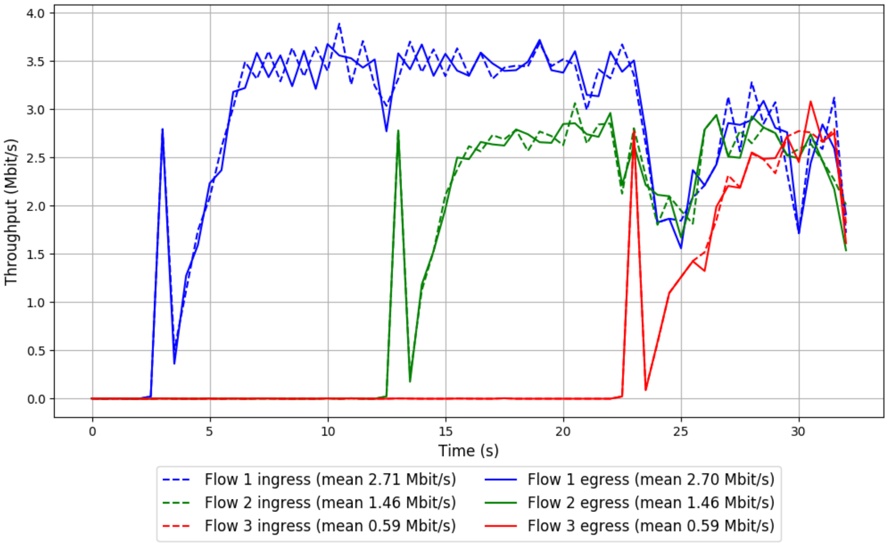
Run 7: Report of WebRTC media — Data Link

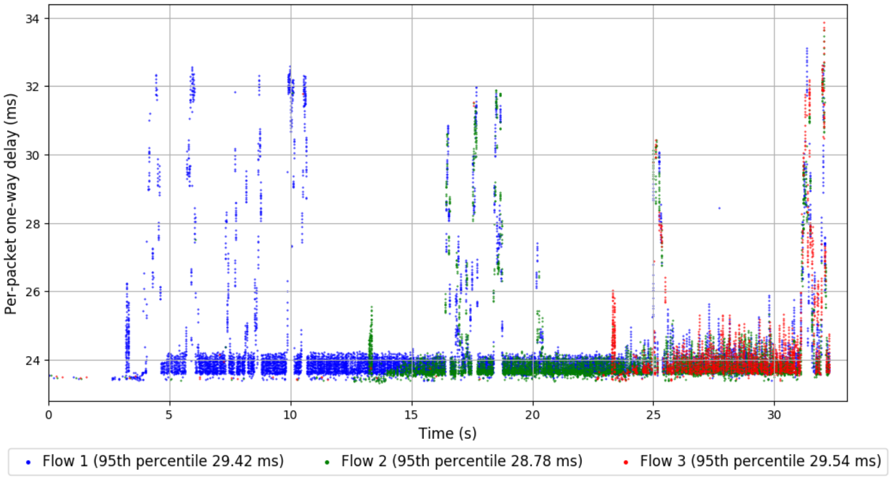




```
Run 8: Statistics of WebRTC media

Start at: 2018-01-26 13:27:21
End at: 2018-01-26 13:27:51
Local clock offset: 1.6 ms
Remote clock offset: 0.205 ms

# Below is generated by plot.py at 2018-01-26 18:19:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.74 Mbit/s
95th percentile per-packet one-way delay: 29.190 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 2.70 Mbit/s
95th percentile per-packet one-way delay: 29.422 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 28.783 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 29.542 ms
Loss rate: 0.65%
```

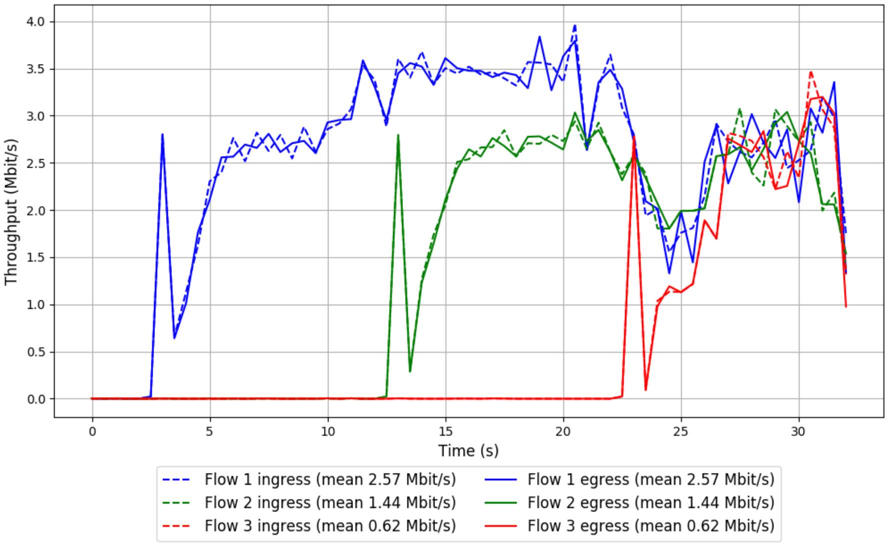
Run 8: Report of WebRTC media — Data Link

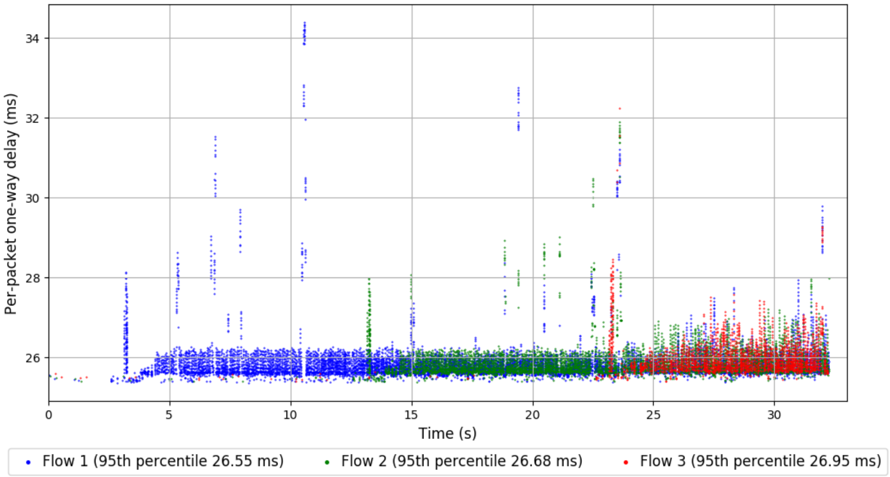




```
Run 9: Statistics of WebRTC media

Start at: 2018-01-26 13:49:26
End at: 2018-01-26 13:49:56
Local clock offset: 1.576 ms
Remote clock offset: -2.618 ms

# Below is generated by plot.py at 2018-01-26 18:19:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.62 Mbit/s
95th percentile per-packet one-way delay: 26.702 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 2.57 Mbit/s
95th percentile per-packet one-way delay: 26.554 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 26.681 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 26.950 ms
Loss rate: 0.90%
```

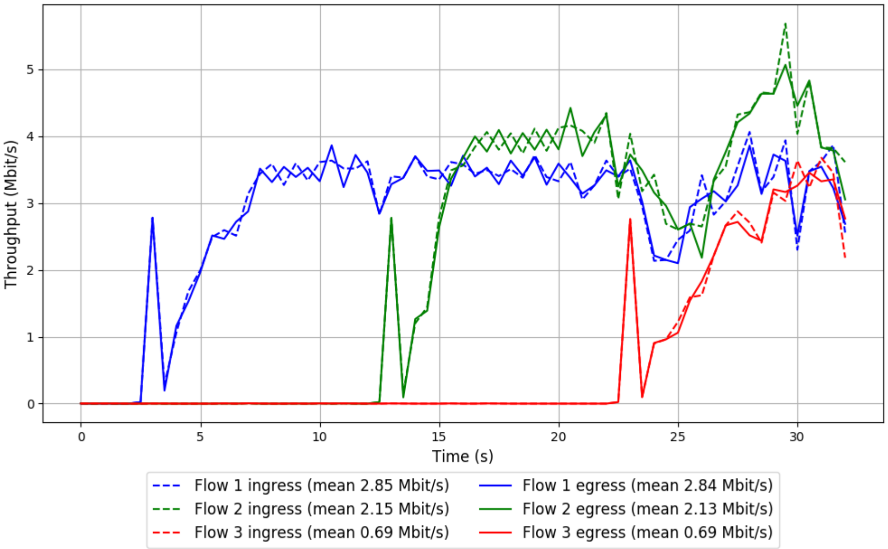
Run 9: Report of WebRTC media — Data Link

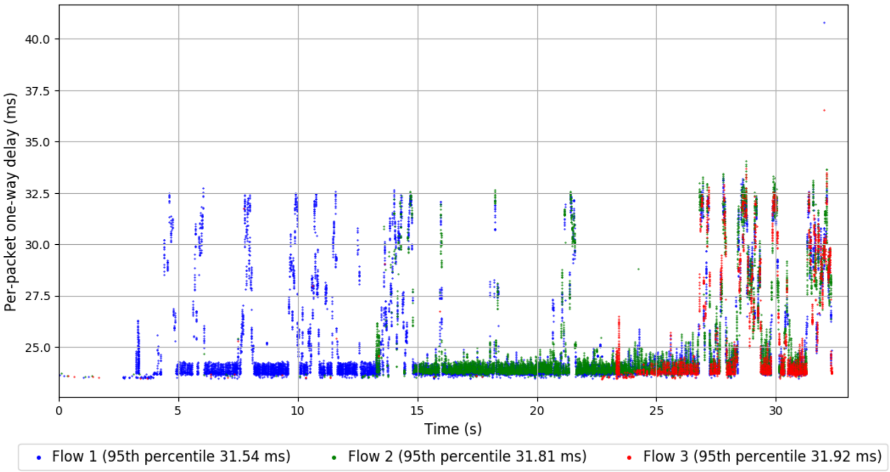




```
Run 10: Statistics of WebRTC media

Start at: 2018-01-26 14:11:44
End at: 2018-01-26 14:12:14
Local clock offset: 1.795 ms
Remote clock offset: -0.973 ms

# Below is generated by plot.py at 2018-01-26 18:19:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.64 Mbit/s
95th percentile per-packet one-way delay: 31.700 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 2.84 Mbit/s
95th percentile per-packet one-way delay: 31.541 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 31.811 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 0.69 Mbit/s
95th percentile per-packet one-way delay: 31.920 ms
Loss rate: 0.35%
```

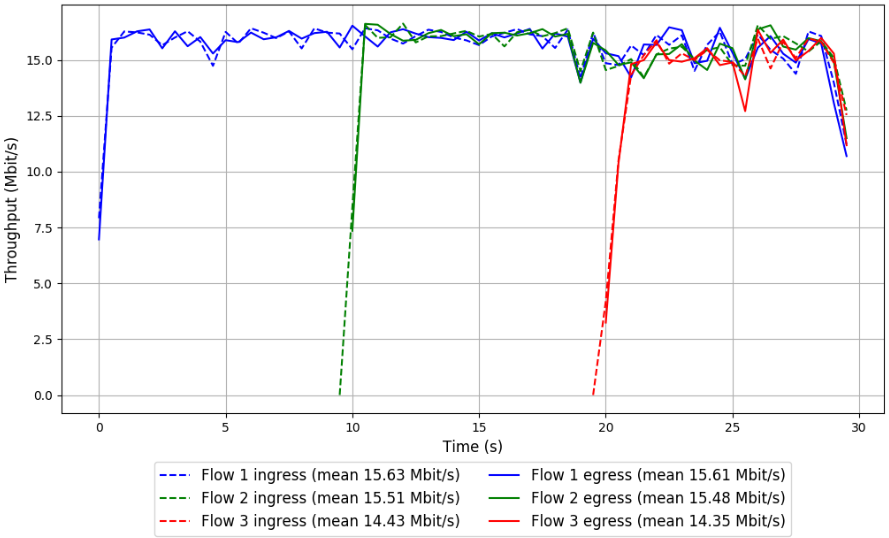
Run 10: Report of WebRTC media — Data Link

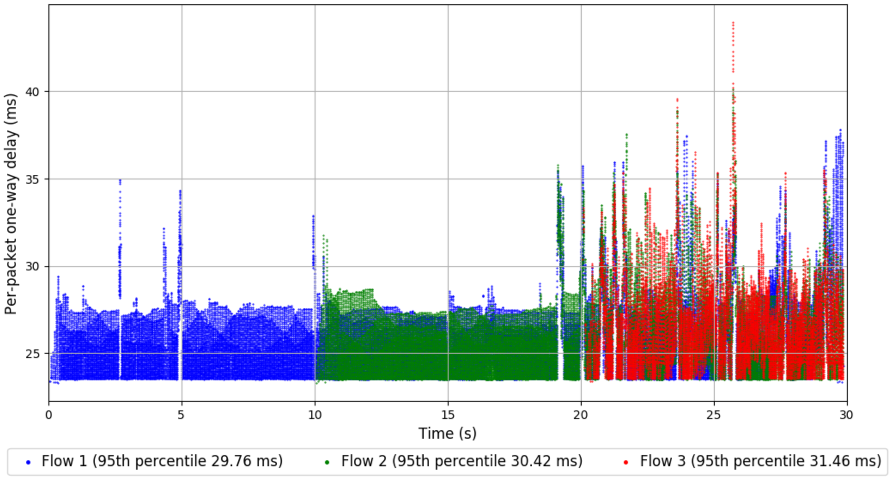




```
Run 1: Statistics of Sprout

Start at: 2018-01-26 10:36:32
End at: 2018-01-26 10:37:02
Local clock offset: 1.425 ms
Remote clock offset: -0.787 ms

# Below is generated by plot.py at 2018-01-26 18:19:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.63 Mbit/s
95th percentile per-packet one-way delay: 30.385 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 15.61 Mbit/s
95th percentile per-packet one-way delay: 29.761 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 15.48 Mbit/s
95th percentile per-packet one-way delay: 30.421 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 14.35 Mbit/s
95th percentile per-packet one-way delay: 31.461 ms
Loss rate: 1.05%
```

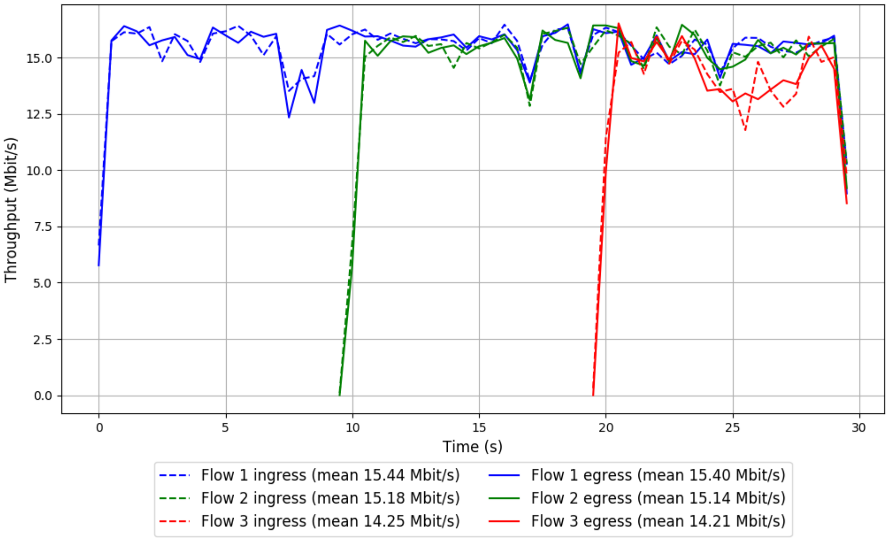
Run 1: Report of Sprout — Data Link

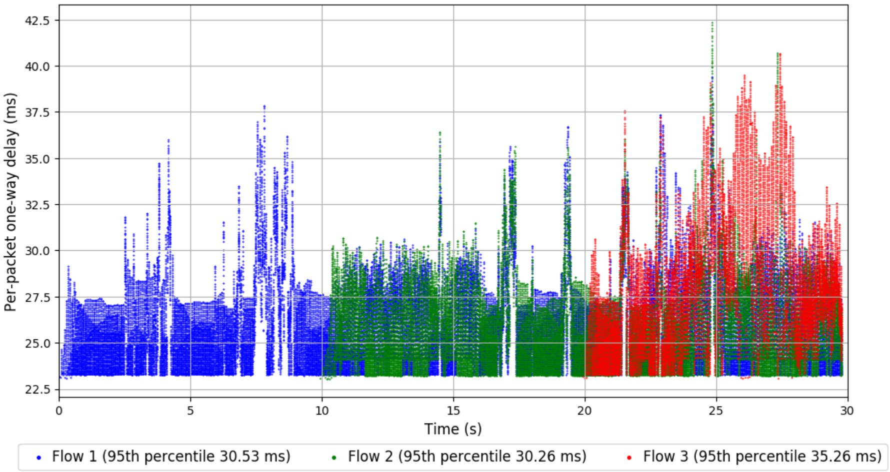




```
Run 2: Statistics of Sprout

Start at: 2018-01-26 10:58:34
End at: 2018-01-26 10:59:04
Local clock offset: 1.352 ms
Remote clock offset: -0.194 ms

# Below is generated by plot.py at 2018-01-26 18:19:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.19 Mbit/s
95th percentile per-packet one-way delay: 31.849 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 15.40 Mbit/s
95th percentile per-packet one-way delay: 30.530 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 15.14 Mbit/s
95th percentile per-packet one-way delay: 30.262 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 14.21 Mbit/s
95th percentile per-packet one-way delay: 35.260 ms
Loss rate: 0.87%
```

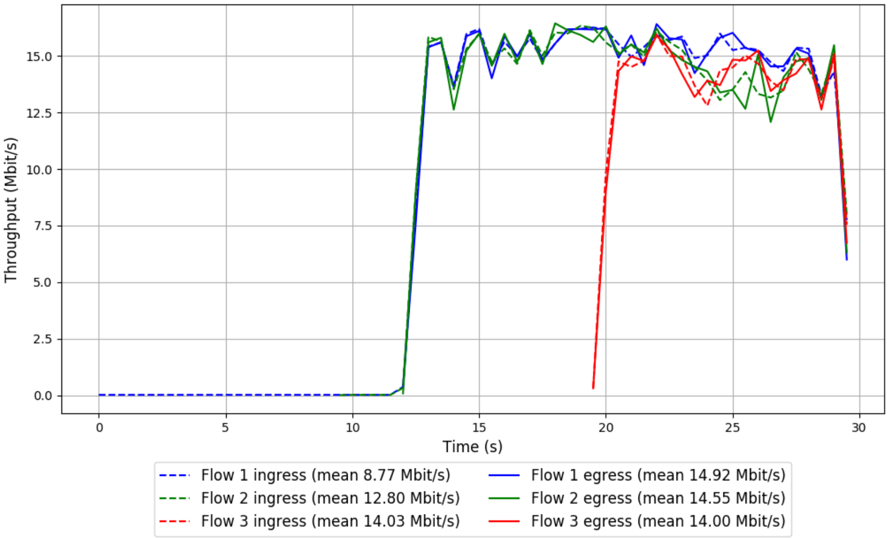
Run 2: Report of Sprout — Data Link

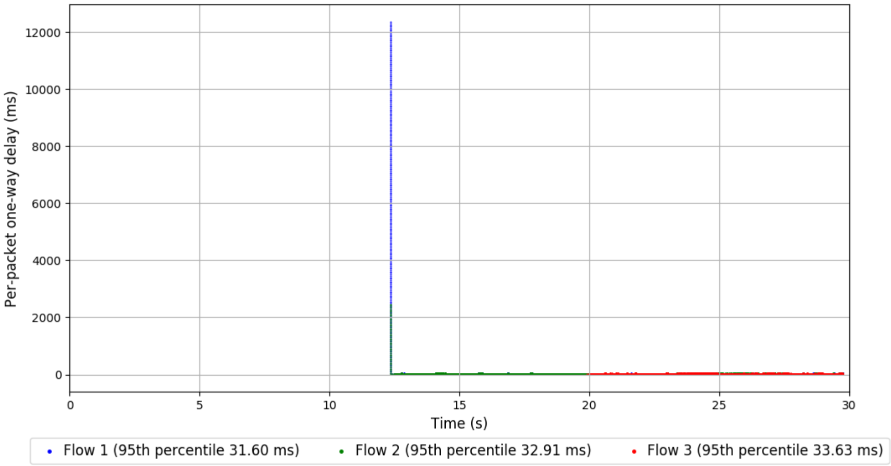




```
Run 3: Statistics of Sprout

Start at: 2018-01-26 11:20:43
End at: 2018-01-26 11:21:13
Local clock offset: 1.247 ms
Remote clock offset: -0.198 ms
```

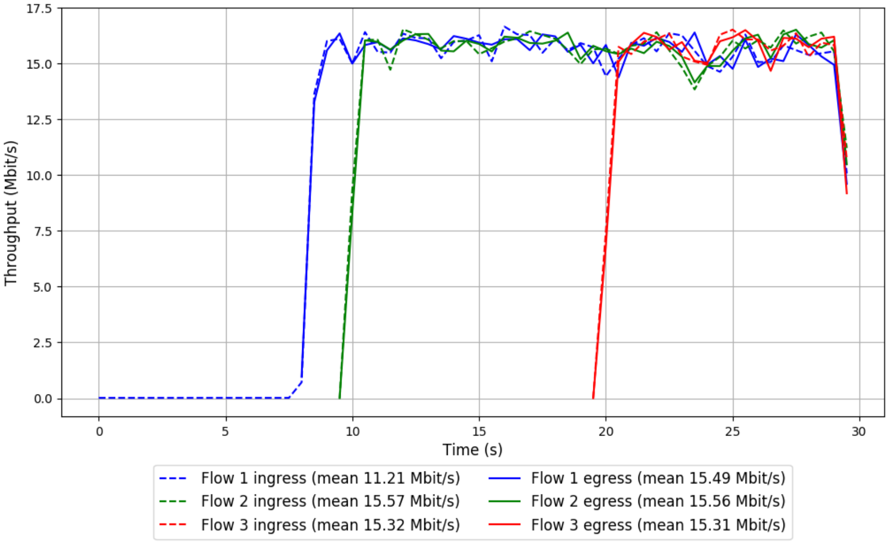
Run 3: Report of Sprout — Data Link

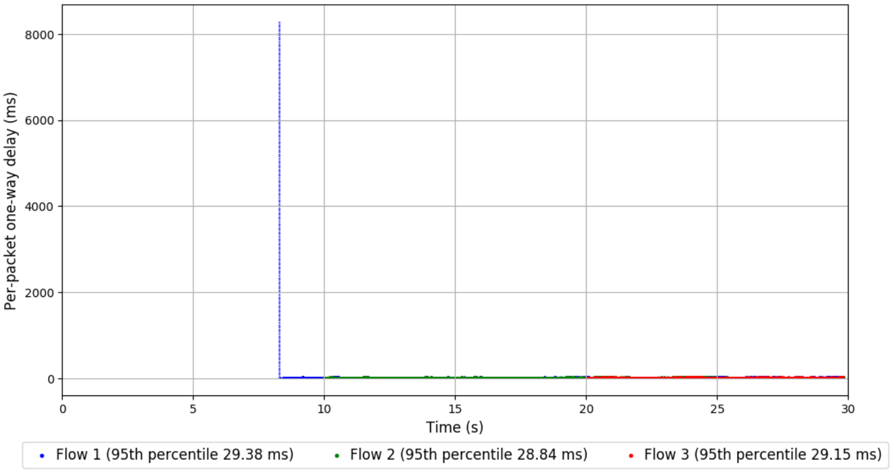




```
Run 4: Statistics of Sprout

Start at: 2018-01-26 11:42:35
End at: 2018-01-26 11:43:05
Local clock offset: 1.203 ms
Remote clock offset: 0.101 ms
```

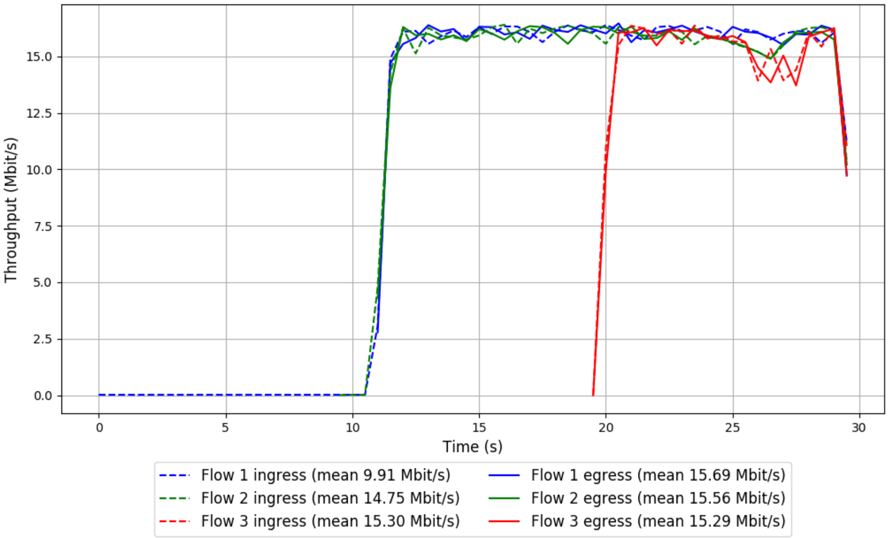
Run 4: Report of Sprout — Data Link

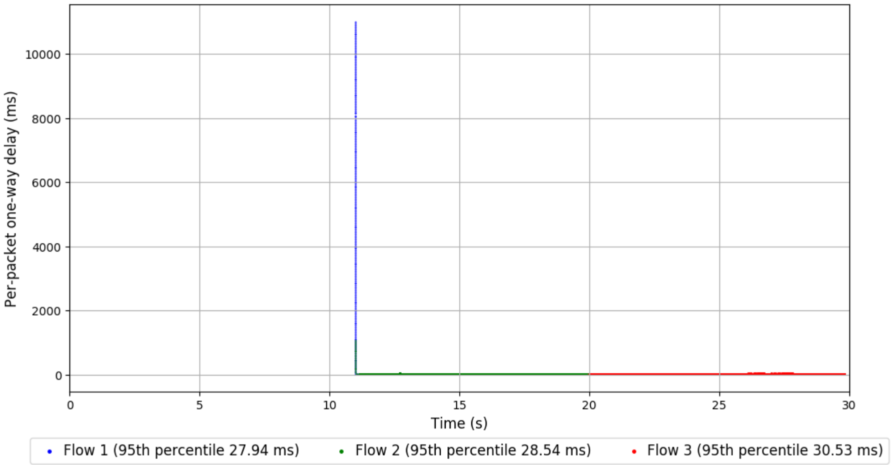




```
Run 5: Statistics of Sprout

Start at: 2018-01-26 12:04:32
End at: 2018-01-26 12:05:02
Local clock offset: 1.296 ms
Remote clock offset: 0.259 ms
```

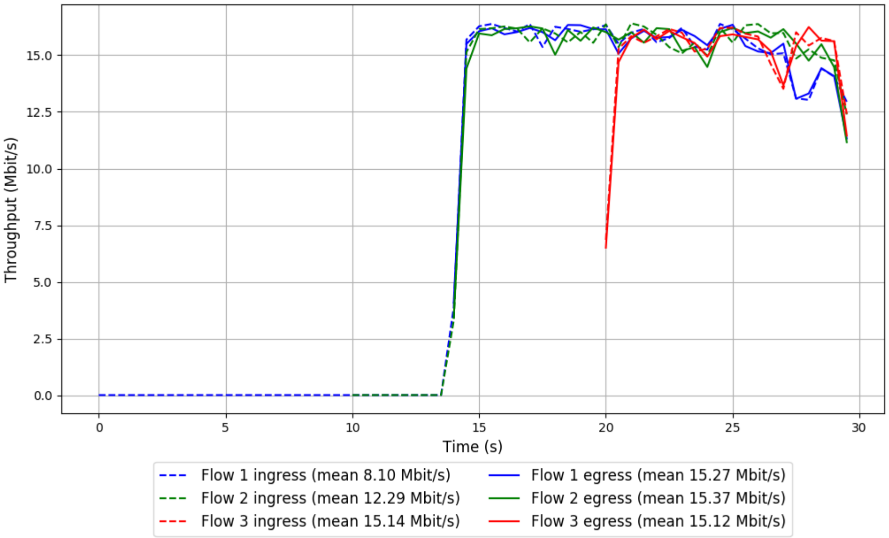
Run 5: Report of Sprout — Data Link

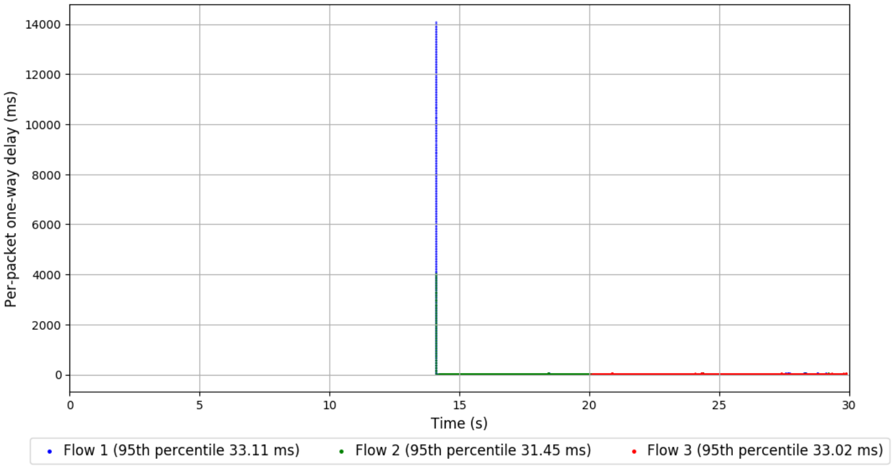




```
Run 6: Statistics of Sprout

Start at: 2018-01-26 12:26:17
End at: 2018-01-26 12:26:47
Local clock offset: 1.326 ms
Remote clock offset: -1.601 ms
```

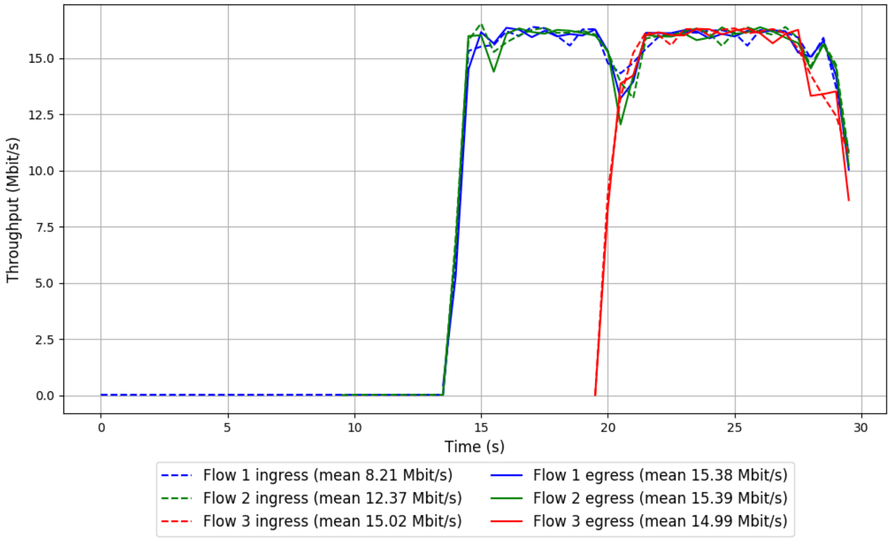
Run 6: Report of Sprout — Data Link

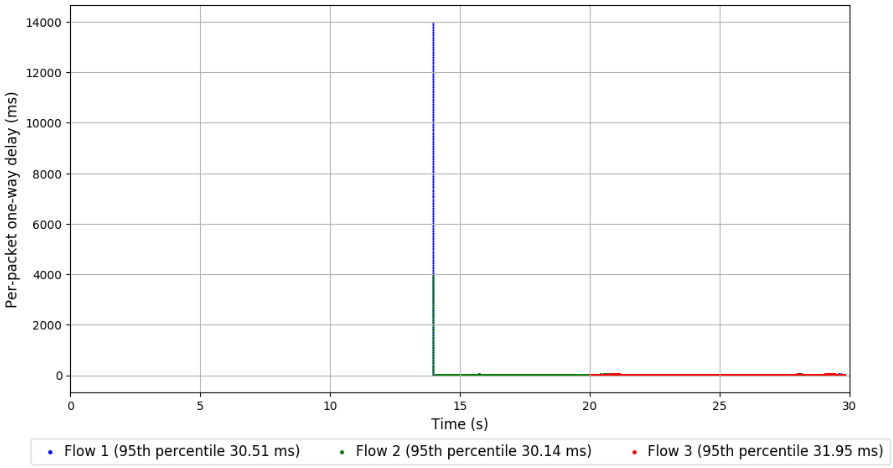




```
Run 7: Statistics of Sprout

Start at: 2018-01-26 12:48:10
End at: 2018-01-26 12:48:40
Local clock offset: 1.42 ms
Remote clock offset: 0.741 ms
```

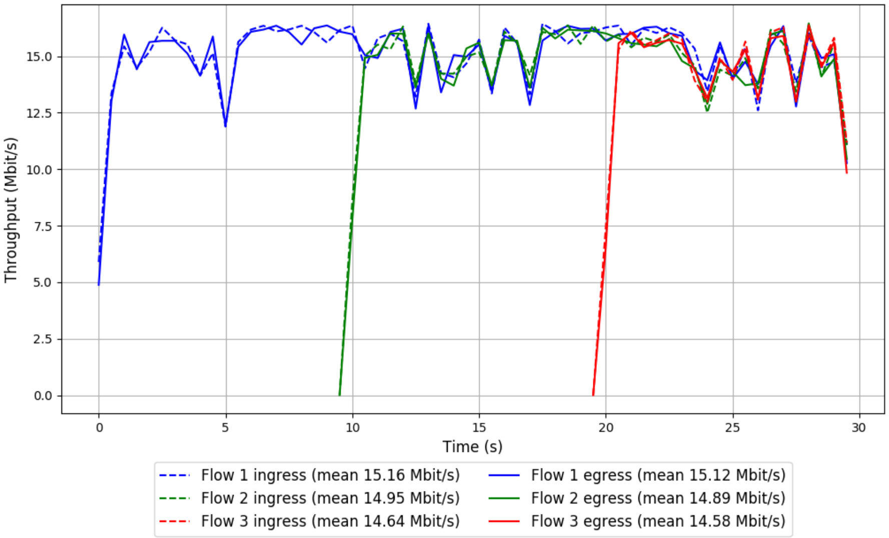
Run 7: Report of Sprout — Data Link

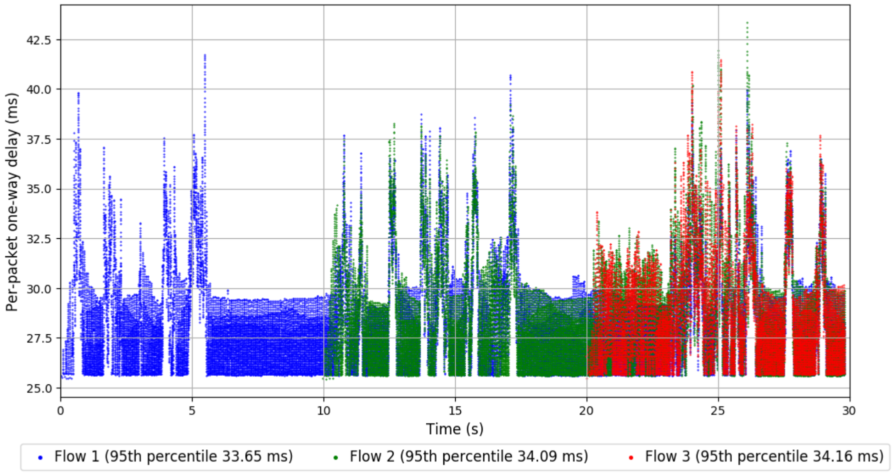




```
Run 8: Statistics of Sprout

Start at: 2018-01-26 13:10:26
End at: 2018-01-26 13:10:56
Local clock offset: 1.539 ms
Remote clock offset: -1.448 ms

# Below is generated by plot.py at 2018-01-26 18:19:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 29.86 Mbit/s
95th percentile per-packet one-way delay: 33.902 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 15.12 Mbit/s
95th percentile per-packet one-way delay: 33.653 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 14.89 Mbit/s
95th percentile per-packet one-way delay: 34.089 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 14.58 Mbit/s
95th percentile per-packet one-way delay: 34.158 ms
Loss rate: 0.93%
```

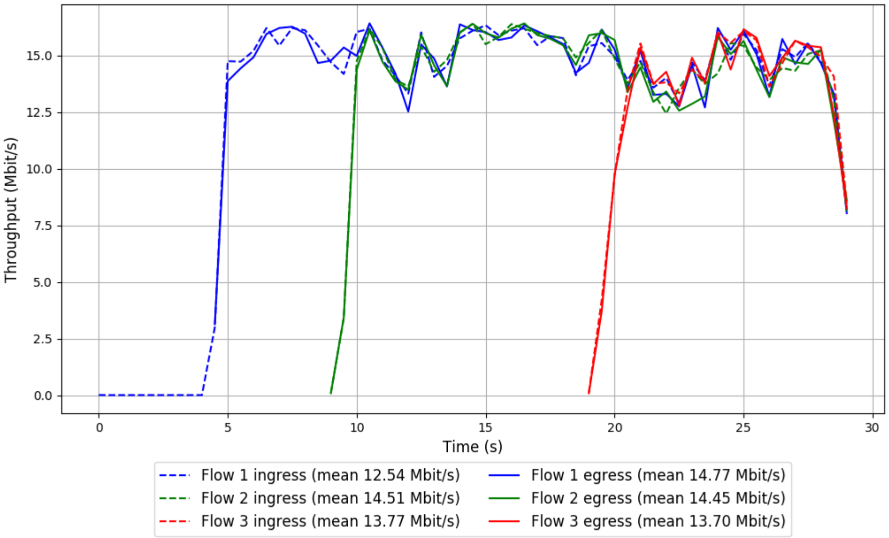
Run 8: Report of Sprout — Data Link

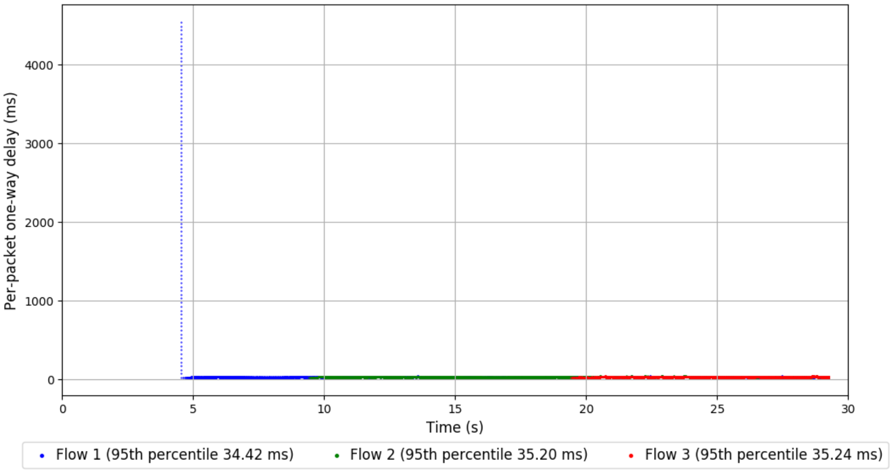




```
Run 9: Statistics of Sprout

Start at: 2018-01-26 13:32:45
End at: 2018-01-26 13:33:15
Local clock offset: 1.616 ms
Remote clock offset: -2.061 ms

# Below is generated by plot.py at 2018-01-26 18:19:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.82 Mbit/s
95th percentile per-packet one-way delay: 34.878 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 14.77 Mbit/s
95th percentile per-packet one-way delay: 34.425 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 14.45 Mbit/s
95th percentile per-packet one-way delay: 35.198 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 13.70 Mbit/s
95th percentile per-packet one-way delay: 35.241 ms
Loss rate: 1.01%
```

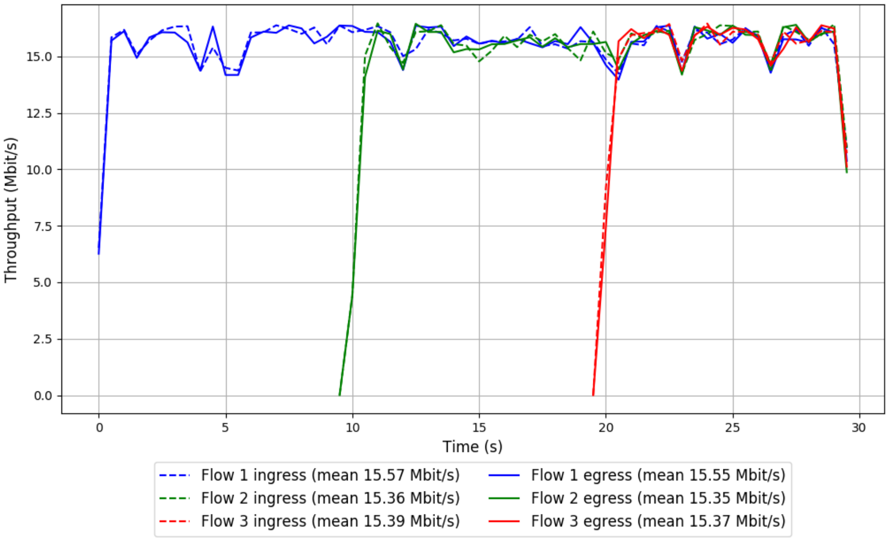
Run 9: Report of Sprout — Data Link

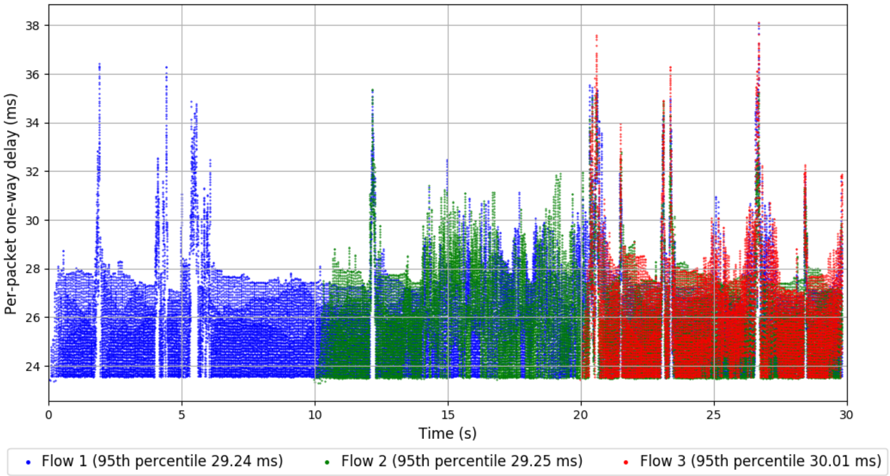




```
Run 10: Statistics of Sprout

Start at: 2018-01-26 13:54:49
End at: 2018-01-26 13:55:19
Local clock offset: 1.6 ms
Remote clock offset: -0.626 ms

# Below is generated by plot.py at 2018-01-26 18:19:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.86 Mbit/s
95th percentile per-packet one-way delay: 29.343 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 15.55 Mbit/s
95th percentile per-packet one-way delay: 29.237 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 15.35 Mbit/s
95th percentile per-packet one-way delay: 29.246 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 15.37 Mbit/s
95th percentile per-packet one-way delay: 30.013 ms
Loss rate: 0.53%
```

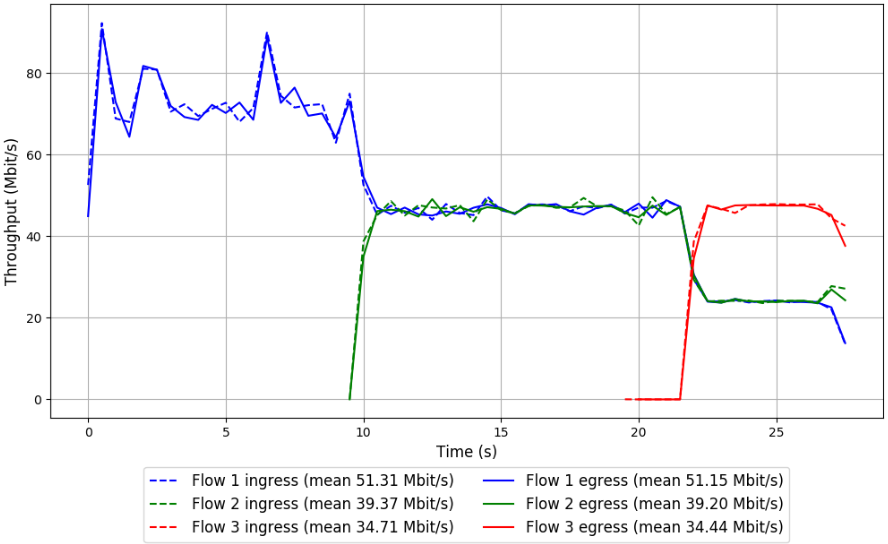
Run 10: Report of Sprout — Data Link

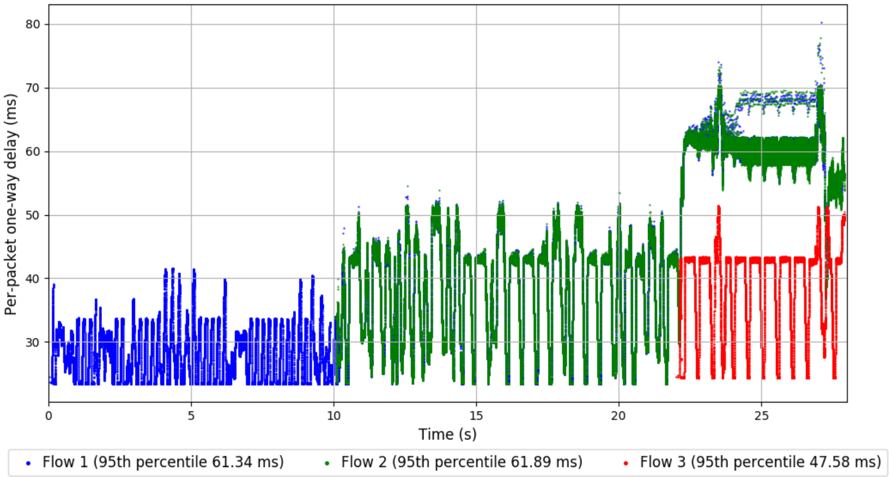




```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-26 10:43:22
End at: 2018-01-26 10:43:52
Local clock offset: 1.338 ms
Remote clock offset: -0.813 ms

# Below is generated by plot.py at 2018-01-26 18:21:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.07 Mbit/s
95th percentile per-packet one-way delay: 61.554 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 51.15 Mbit/s
95th percentile per-packet one-way delay: 61.339 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 39.20 Mbit/s
95th percentile per-packet one-way delay: 61.887 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 34.44 Mbit/s
95th percentile per-packet one-way delay: 47.575 ms
Loss rate: 1.57%
```

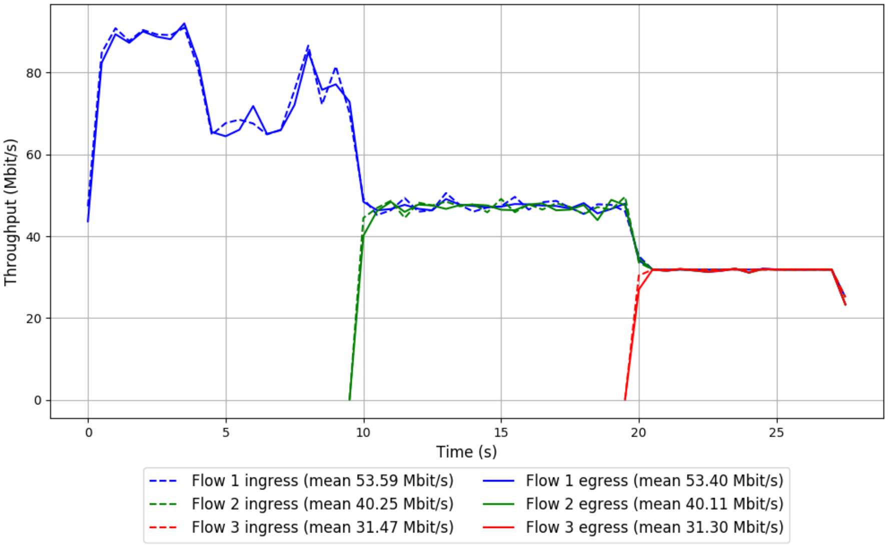
Run 1: Report of TaoVA-100x — Data Link

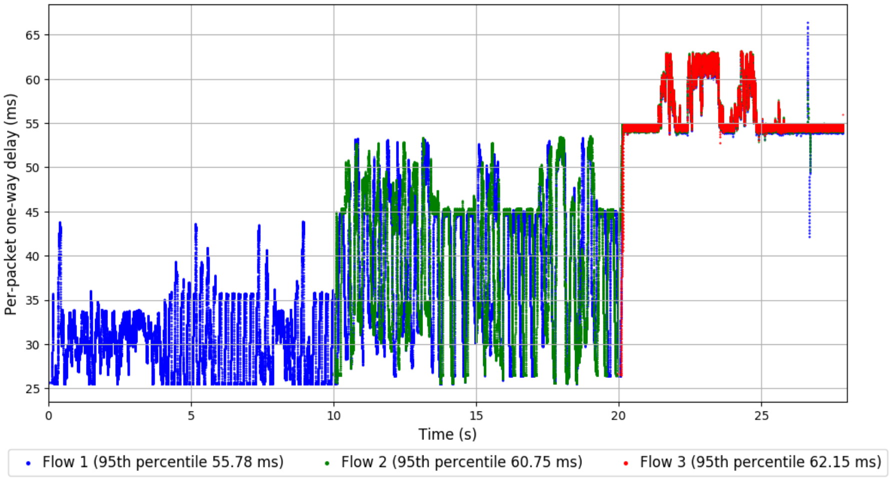




```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-26 11:05:30
End at: 2018-01-26 11:06:01
Local clock offset: 1.19 ms
Remote clock offset: -2.637 ms

# Below is generated by plot.py at 2018-01-26 18:21:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.08 Mbit/s
95th percentile per-packet one-way delay: 60.041 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 53.40 Mbit/s
95th percentile per-packet one-way delay: 55.785 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 40.11 Mbit/s
95th percentile per-packet one-way delay: 60.746 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 31.30 Mbit/s
95th percentile per-packet one-way delay: 62.149 ms
Loss rate: 1.35%
```

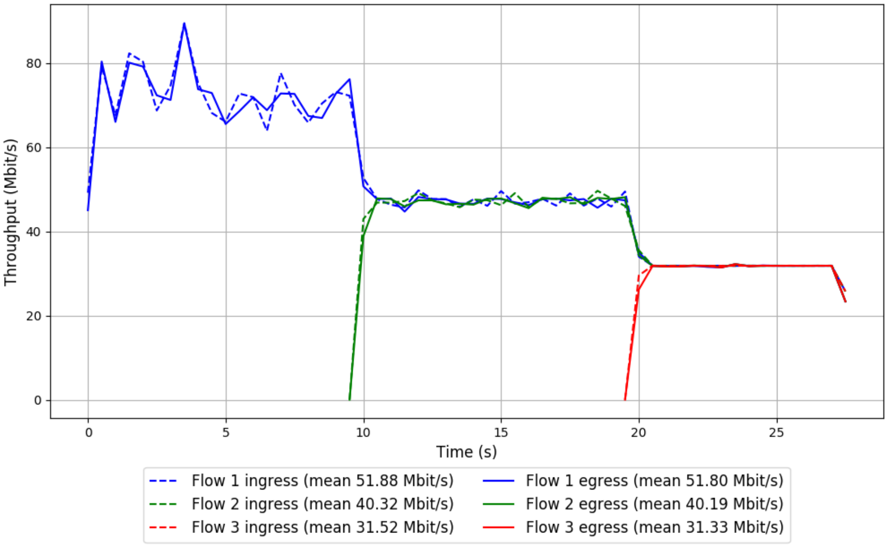
Run 2: Report of TaoVA-100x — Data Link

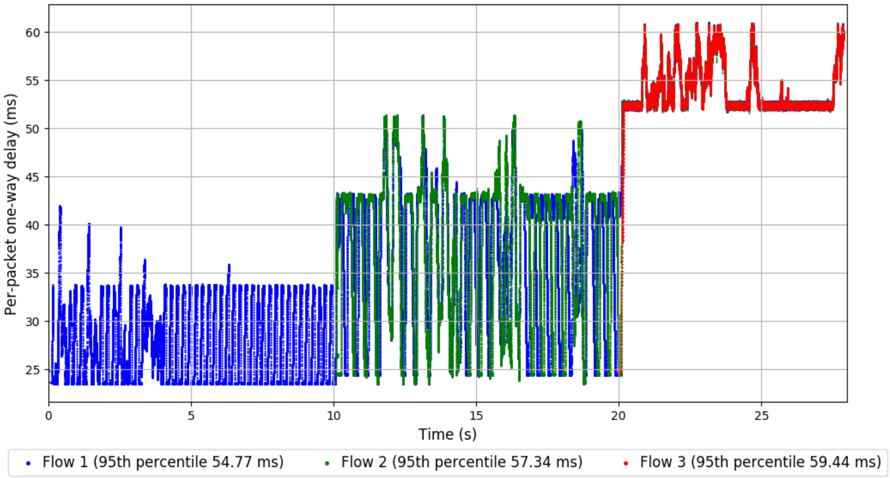




```
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-26 11:27:35
End at: 2018-01-26 11:28:05
Local clock offset: 1.32 ms
Remote clock offset: -0.519 ms

# Below is generated by plot.py at 2018-01-26 18:21:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.52 Mbit/s
95th percentile per-packet one-way delay: 56.965 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 51.80 Mbit/s
95th percentile per-packet one-way delay: 54.773 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 40.19 Mbit/s
95th percentile per-packet one-way delay: 57.340 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 31.33 Mbit/s
95th percentile per-packet one-way delay: 59.439 ms
Loss rate: 1.27%
```

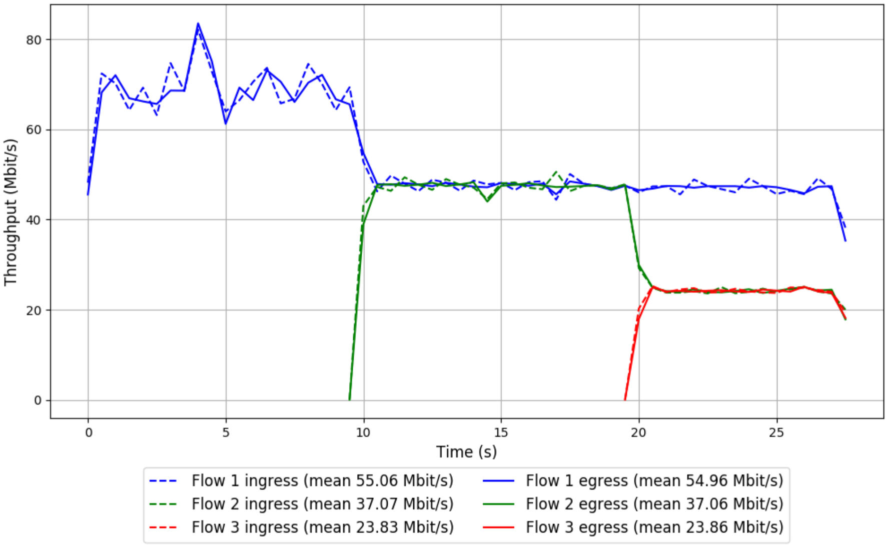
Run 3: Report of TaoVA-100x — Data Link

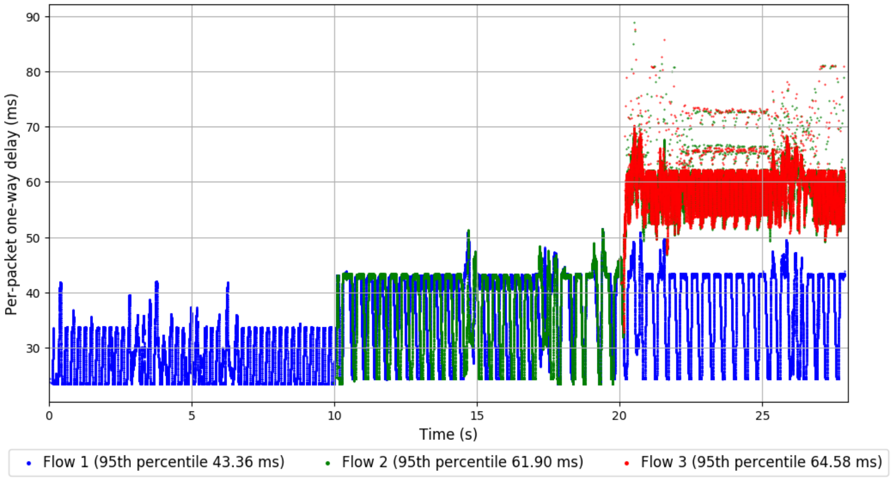




```
Run 4: Statistics of TaoVA-100x

Start at: 2018-01-26 11:49:27
End at: 2018-01-26 11:49:57
Local clock offset: 1.335 ms
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2018-01-26 18:21:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.53 Mbit/s
95th percentile per-packet one-way delay: 61.445 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 54.96 Mbit/s
95th percentile per-packet one-way delay: 43.358 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 37.06 Mbit/s
95th percentile per-packet one-way delay: 61.899 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 23.86 Mbit/s
95th percentile per-packet one-way delay: 64.581 ms
Loss rate: 1.24%
```

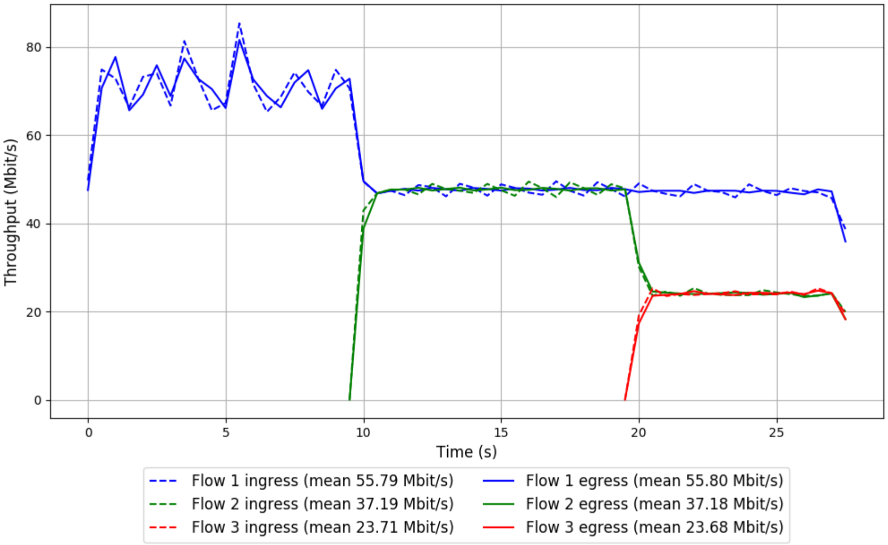
Run 4: Report of TaoVA-100x — Data Link

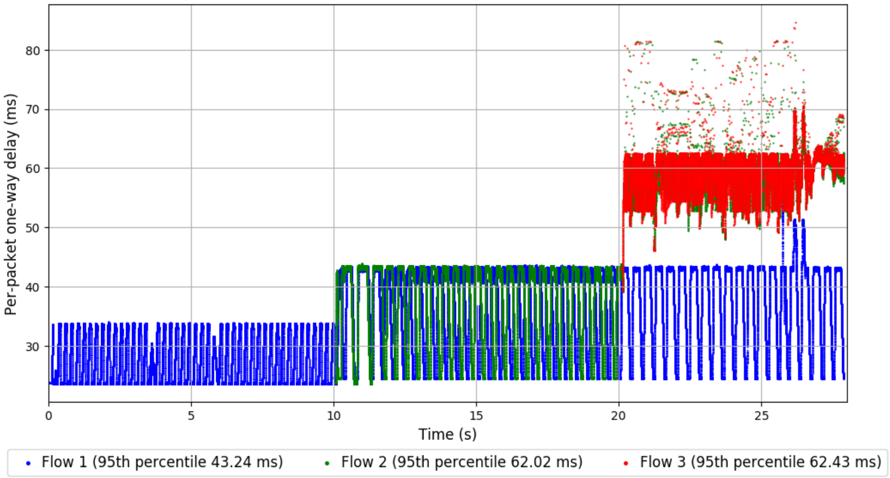




```
Run 5: Statistics of TaoVA-100x

Start at: 2018-01-26 12:11:20
End at: 2018-01-26 12:11:50
Local clock offset: 1.304 ms
Remote clock offset: 0.267 ms

# Below is generated by plot.py at 2018-01-26 18:21:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.40 Mbit/s
95th percentile per-packet one-way delay: 61.379 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 55.80 Mbit/s
95th percentile per-packet one-way delay: 43.239 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 37.18 Mbit/s
95th percentile per-packet one-way delay: 62.018 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 23.68 Mbit/s
95th percentile per-packet one-way delay: 62.428 ms
Loss rate: 1.16%
```

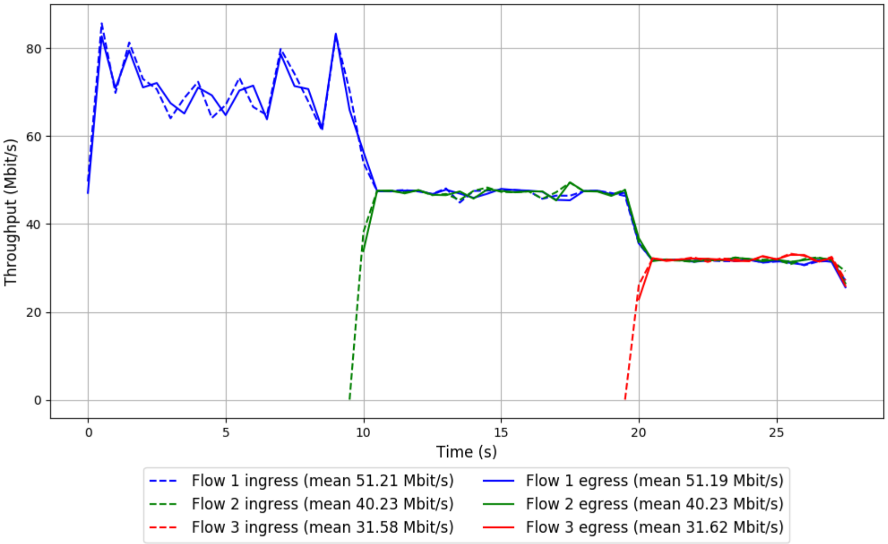
Run 5: Report of TaoVA-100x — Data Link

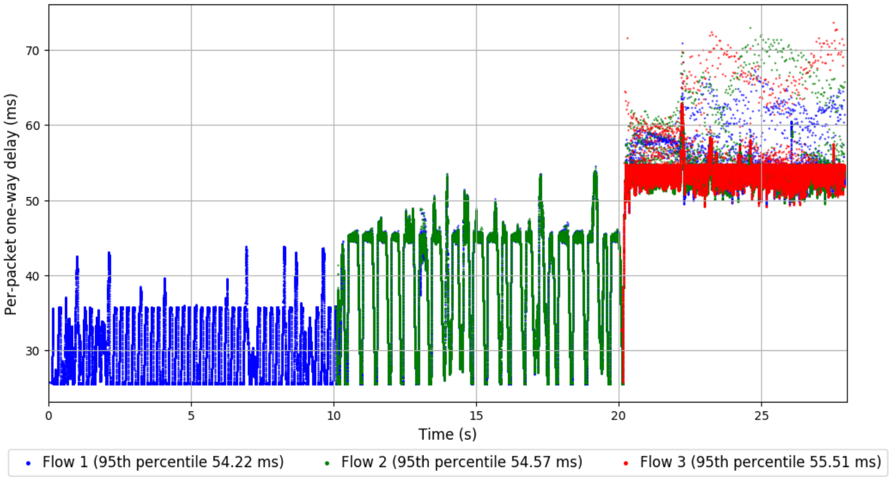




```
Run 6: Statistics of TaoVA-100x

Start at: 2018-01-26 12:33:06
End at: 2018-01-26 12:33:36
Local clock offset: 1.39 ms
Remote clock offset: -1.458 ms

# Below is generated by plot.py at 2018-01-26 18:21:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.94 Mbit/s
95th percentile per-packet one-way delay: 54.545 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 51.19 Mbit/s
95th percentile per-packet one-way delay: 54.224 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 40.23 Mbit/s
95th percentile per-packet one-way delay: 54.573 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 31.62 Mbit/s
95th percentile per-packet one-way delay: 55.508 ms
Loss rate: 1.01%
```

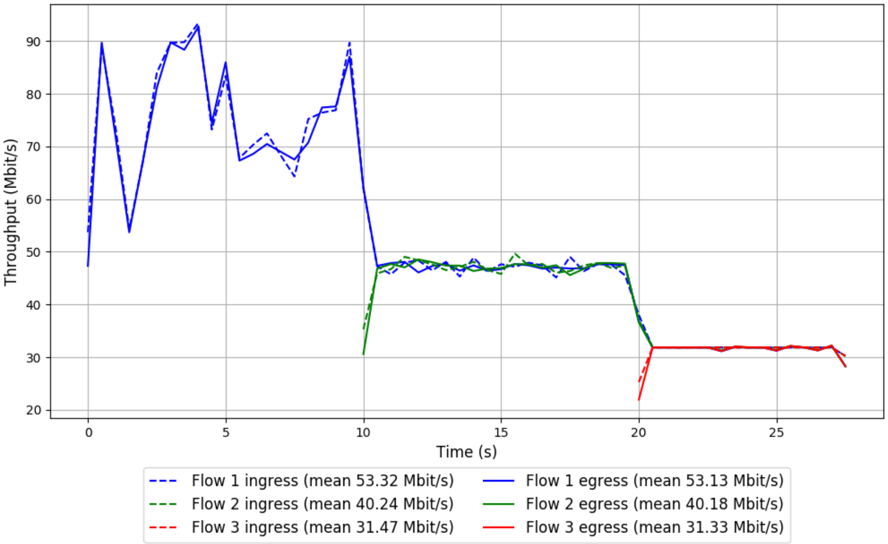
Run 6: Report of TaoVA-100x — Data Link

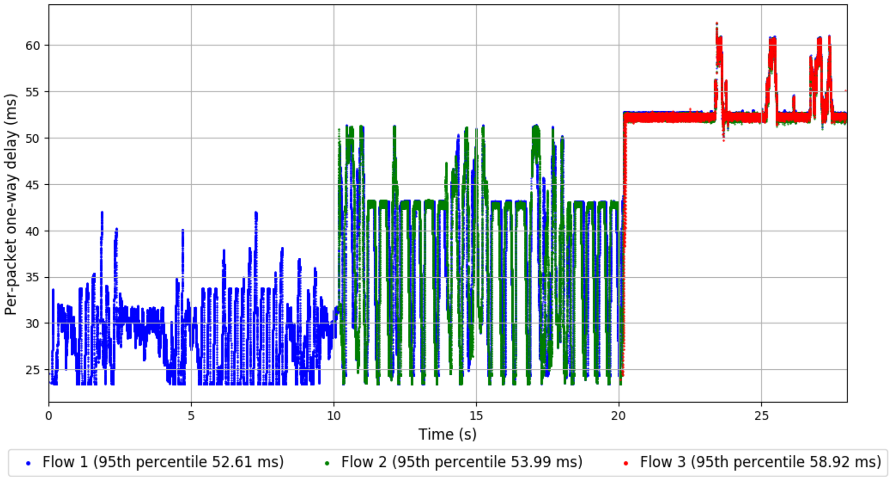




```
Run 7: Statistics of TaoVA-100x

Start at: 2018-01-26 12:55:14
End at: 2018-01-26 12:55:44
Local clock offset: 1.446 ms
Remote clock offset: 0.911 ms

# Below is generated by plot.py at 2018-01-26 18:21:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.75 Mbit/s
95th percentile per-packet one-way delay: 53.250 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 53.13 Mbit/s
95th percentile per-packet one-way delay: 52.611 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 40.18 Mbit/s
95th percentile per-packet one-way delay: 53.993 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 31.33 Mbit/s
95th percentile per-packet one-way delay: 58.918 ms
Loss rate: 1.26%
```

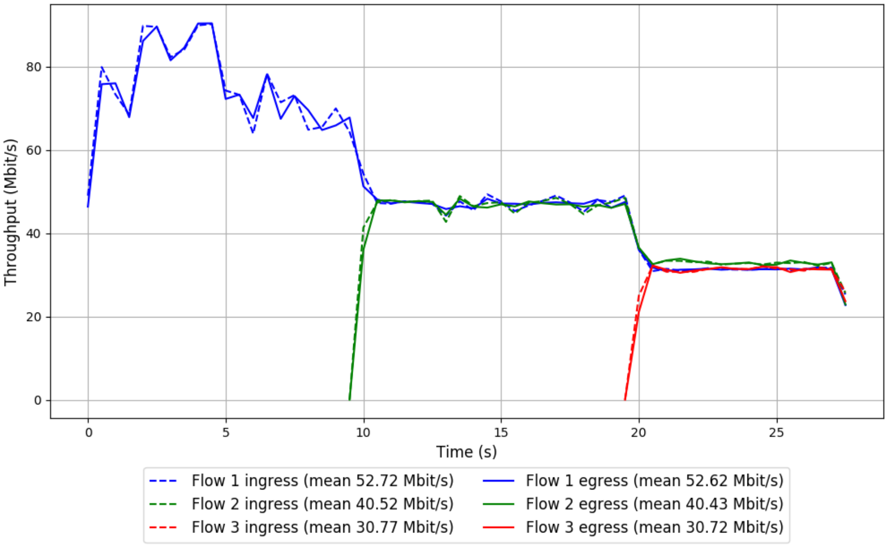
Run 7: Report of TaoVA-100x — Data Link

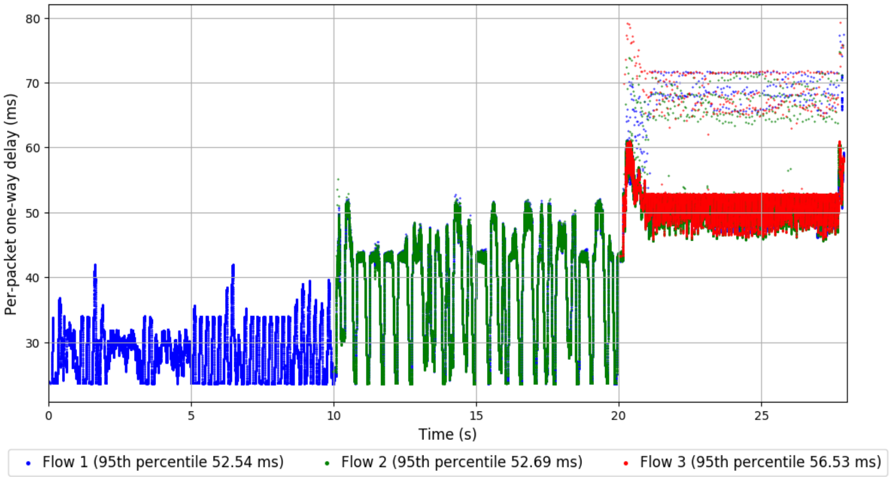




```
Run 8: Statistics of TaoVA-100x

Start at: 2018-01-26 13:17:21
End at: 2018-01-26 13:17:51
Local clock offset: 1.567 ms
Remote clock offset: 0.328 ms

# Below is generated by plot.py at 2018-01-26 18:21:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.29 Mbit/s
95th percentile per-packet one-way delay: 52.694 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 52.62 Mbit/s
95th percentile per-packet one-way delay: 52.544 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 40.43 Mbit/s
95th percentile per-packet one-way delay: 52.687 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 30.72 Mbit/s
95th percentile per-packet one-way delay: 56.531 ms
Loss rate: 1.25%
```

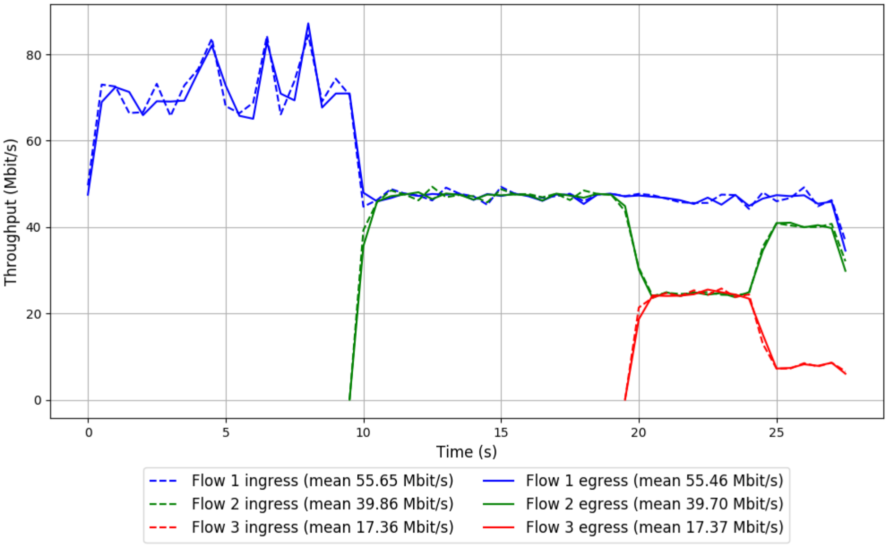
Run 8: Report of TaoVA-100x — Data Link

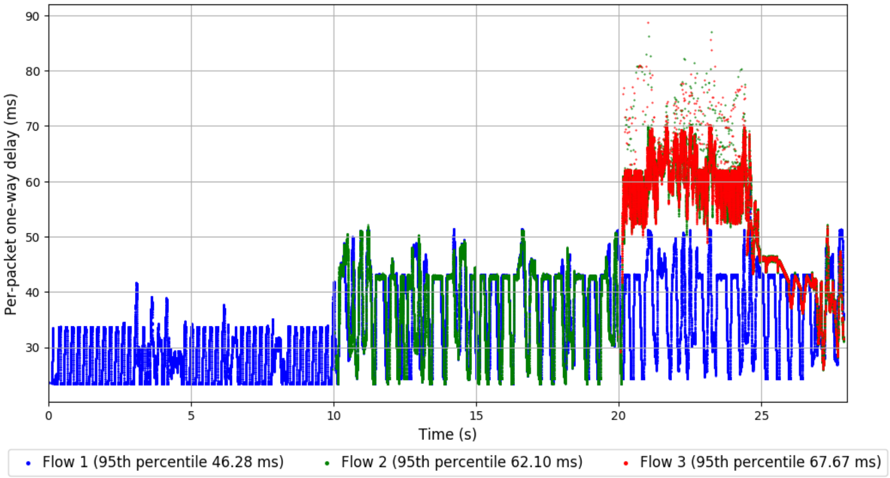




```
Run 9: Statistics of TaoVA-100x

Start at: 2018-01-26 13:39:49
End at: 2018-01-26 13:40:19
Local clock offset: 1.536 ms
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2018-01-26 18:23:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.90 Mbit/s
95th percentile per-packet one-way delay: 60.696 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 55.46 Mbit/s
95th percentile per-packet one-way delay: 46.276 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 39.70 Mbit/s
95th percentile per-packet one-way delay: 62.105 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 17.37 Mbit/s
95th percentile per-packet one-way delay: 67.671 ms
Loss rate: 0.76%
```

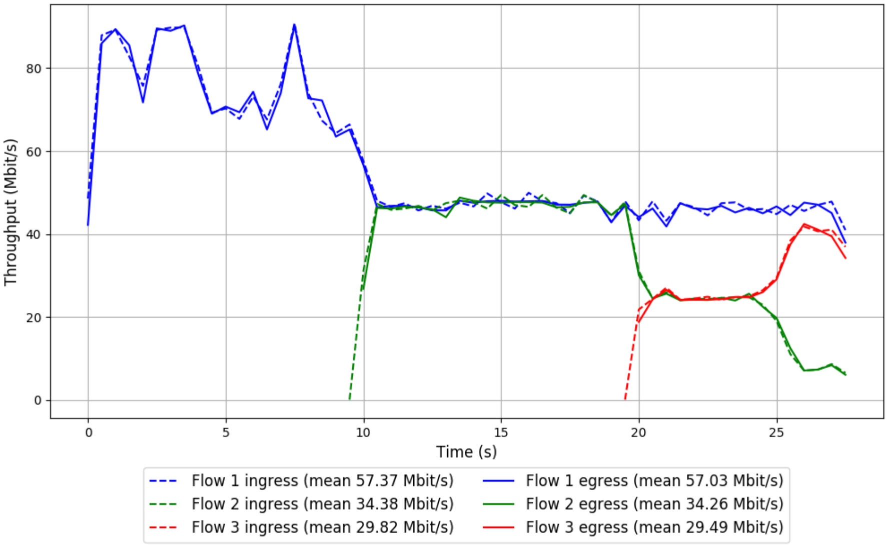
Run 9: Report of TaoVA-100x — Data Link

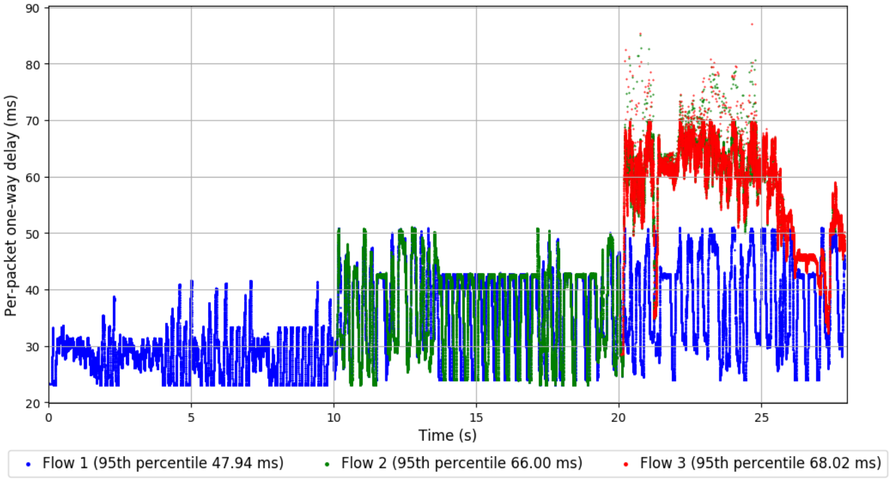




```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-26 14:01:49
End at: 2018-01-26 14:02:19
Local clock offset: 1.742 ms
Remote clock offset: -0.216 ms

# Below is generated by plot.py at 2018-01-26 18:23:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.36 Mbit/s
95th percentile per-packet one-way delay: 63.036 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 57.03 Mbit/s
95th percentile per-packet one-way delay: 47.935 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 34.26 Mbit/s
95th percentile per-packet one-way delay: 66.005 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 29.49 Mbit/s
95th percentile per-packet one-way delay: 68.015 ms
Loss rate: 2.05%
```

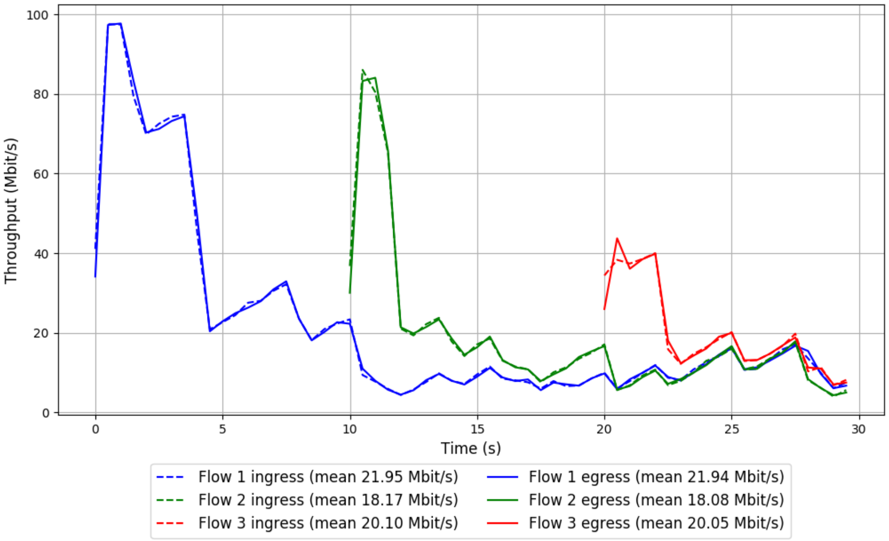
Run 10: Report of TaoVA-100x — Data Link

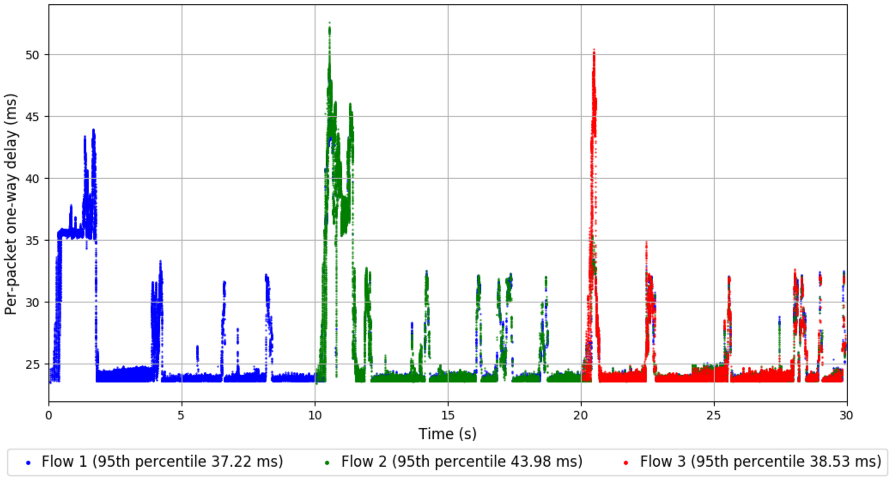




```
Run 1: Statistics of TCP Vegas

Start at: 2018-01-26 10:42:02
End at: 2018-01-26 10:42:32
Local clock offset: 1.406 ms
Remote clock offset: -0.915 ms

# Below is generated by plot.py at 2018-01-26 18:23:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.60 Mbit/s
95th percentile per-packet one-way delay: 41.228 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 21.94 Mbit/s
95th percentile per-packet one-way delay: 37.218 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 18.08 Mbit/s
95th percentile per-packet one-way delay: 43.977 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 20.05 Mbit/s
95th percentile per-packet one-way delay: 38.533 ms
Loss rate: 0.76%
```

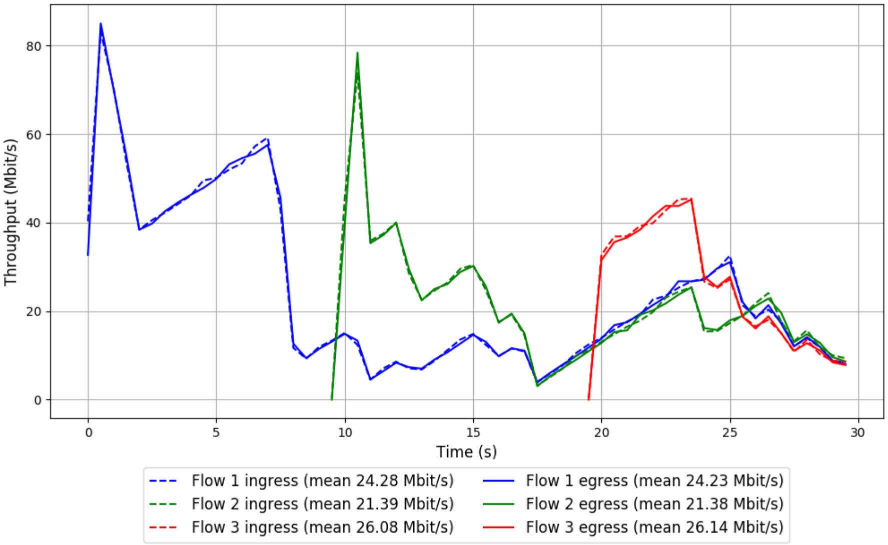
Run 1: Report of TCP Vegas — Data Link

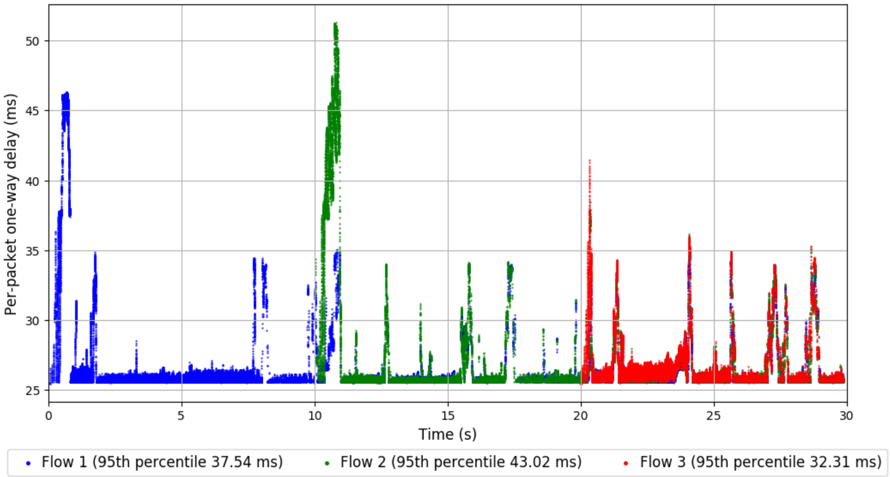




```
Run 2: Statistics of TCP Vegas

Start at: 2018-01-26 11:04:10
End at: 2018-01-26 11:04:40
Local clock offset: 1.25 ms
Remote clock offset: -2.6 ms

# Below is generated by plot.py at 2018-01-26 18:23:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 47.15 Mbit/s
95th percentile per-packet one-way delay: 37.874 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 24.23 Mbit/s
95th percentile per-packet one-way delay: 37.544 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 21.38 Mbit/s
95th percentile per-packet one-way delay: 43.024 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 26.14 Mbit/s
95th percentile per-packet one-way delay: 32.315 ms
Loss rate: 0.29%
```

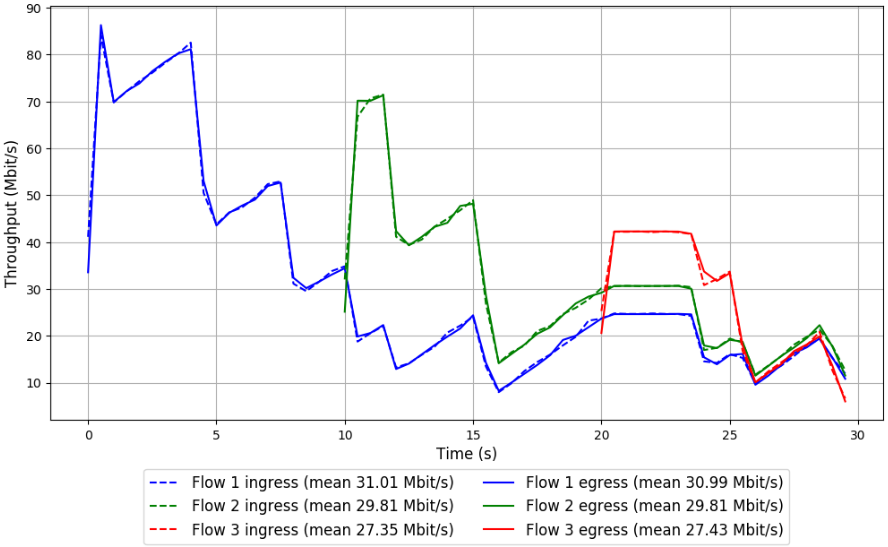
Run 2: Report of TCP Vegas — Data Link

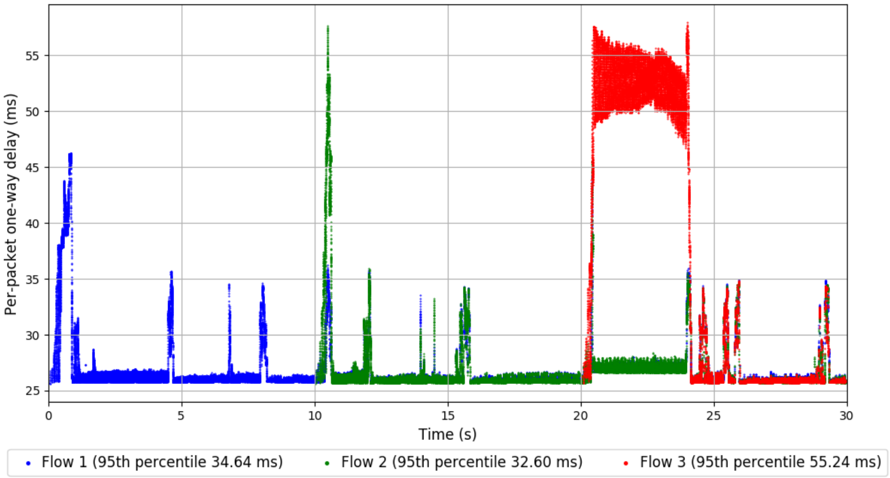




```
Run 3: Statistics of TCP Vegas

Start at: 2018-01-26 11:26:15
End at: 2018-01-26 11:26:45
Local clock offset: 1.314 ms
Remote clock offset: -2.71 ms

# Below is generated by plot.py at 2018-01-26 18:23:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.90 Mbit/s
95th percentile per-packet one-way delay: 52.052 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 30.99 Mbit/s
95th percentile per-packet one-way delay: 34.644 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 29.81 Mbit/s
95th percentile per-packet one-way delay: 32.602 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 27.43 Mbit/s
95th percentile per-packet one-way delay: 55.238 ms
Loss rate: 0.25%
```

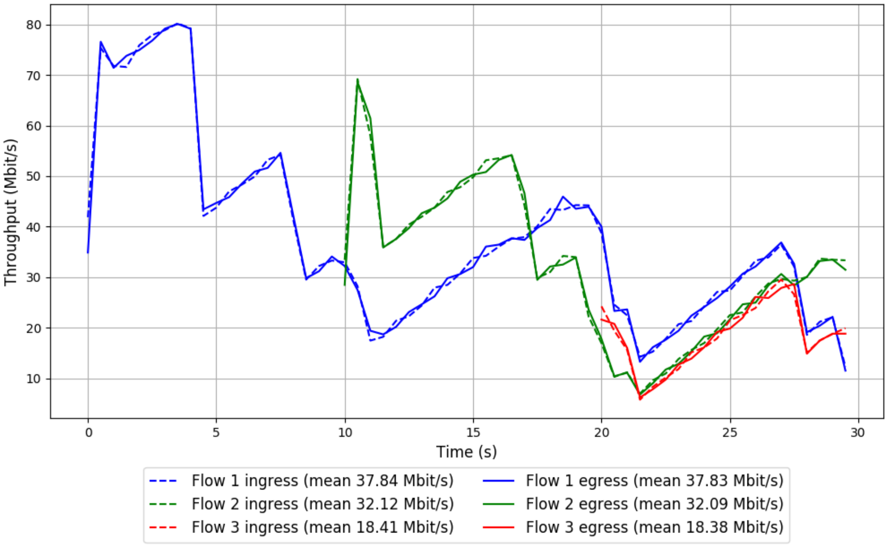
Run 3: Report of TCP Vegas — Data Link

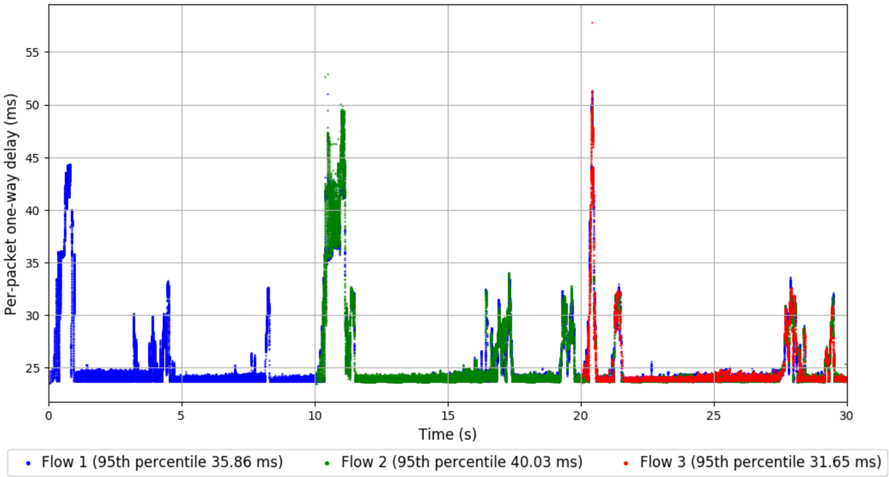




```
Run 4: Statistics of TCP Vegas

Start at: 2018-01-26 11:48:06
End at: 2018-01-26 11:48:36
Local clock offset: 1.308 ms
Remote clock offset: -0.303 ms

# Below is generated by plot.py at 2018-01-26 18:23:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.26 Mbit/s
95th percentile per-packet one-way delay: 36.503 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 37.83 Mbit/s
95th percentile per-packet one-way delay: 35.856 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 32.09 Mbit/s
95th percentile per-packet one-way delay: 40.029 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 18.38 Mbit/s
95th percentile per-packet one-way delay: 31.649 ms
Loss rate: 0.71%
```

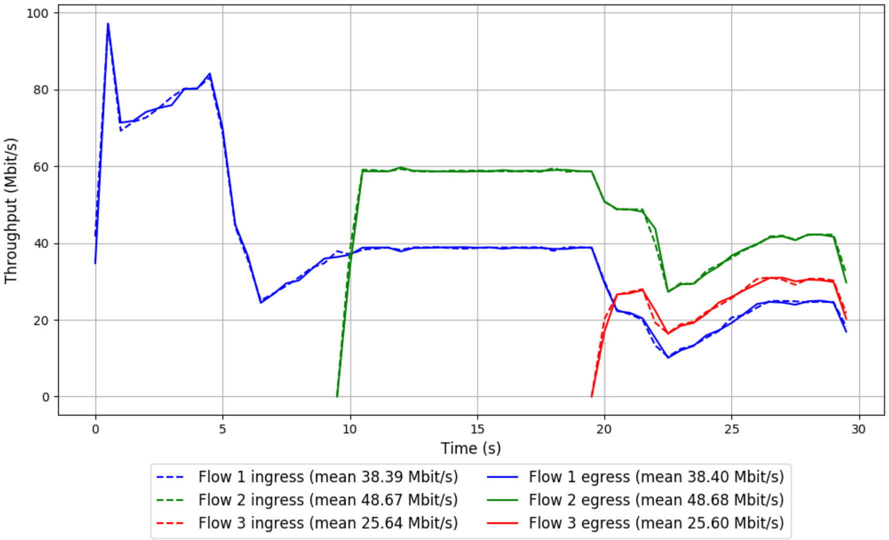
Run 4: Report of TCP Vegas — Data Link

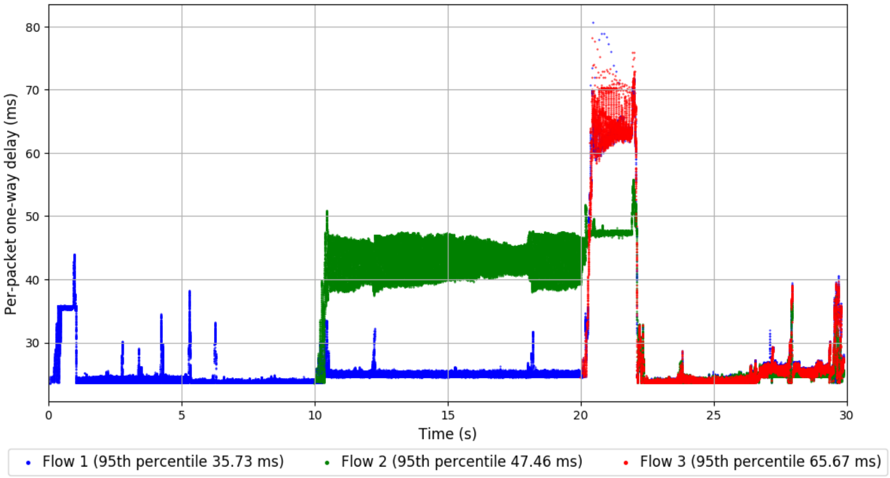




```
Run 5: Statistics of TCP Vegas

Start at: 2018-01-26 12:09:59
End at: 2018-01-26 12:10:29
Local clock offset: 1.311 ms
Remote clock offset: 0.224 ms

# Below is generated by plot.py at 2018-01-26 18:23:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.35 Mbit/s
95th percentile per-packet one-way delay: 47.566 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 38.40 Mbit/s
95th percentile per-packet one-way delay: 35.725 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 48.68 Mbit/s
95th percentile per-packet one-way delay: 47.458 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 25.60 Mbit/s
95th percentile per-packet one-way delay: 65.665 ms
Loss rate: 0.70%
```

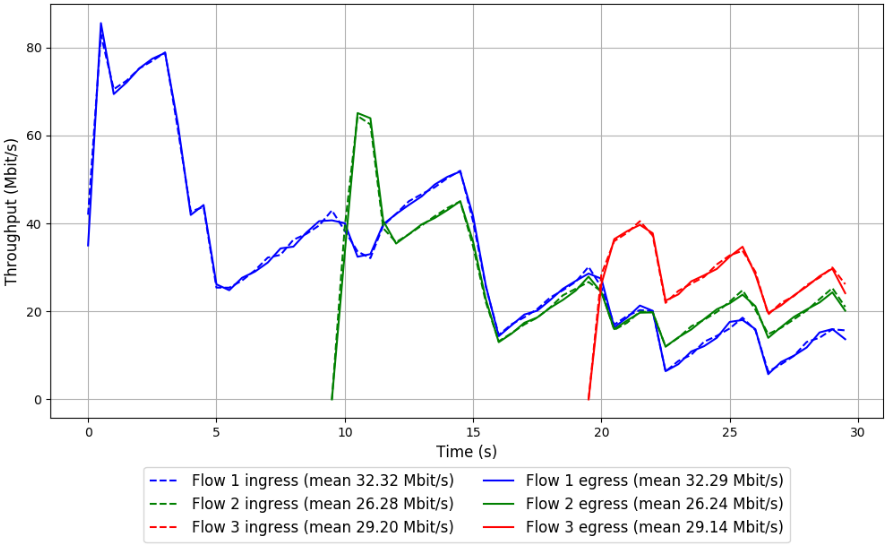
Run 5: Report of TCP Vegas — Data Link

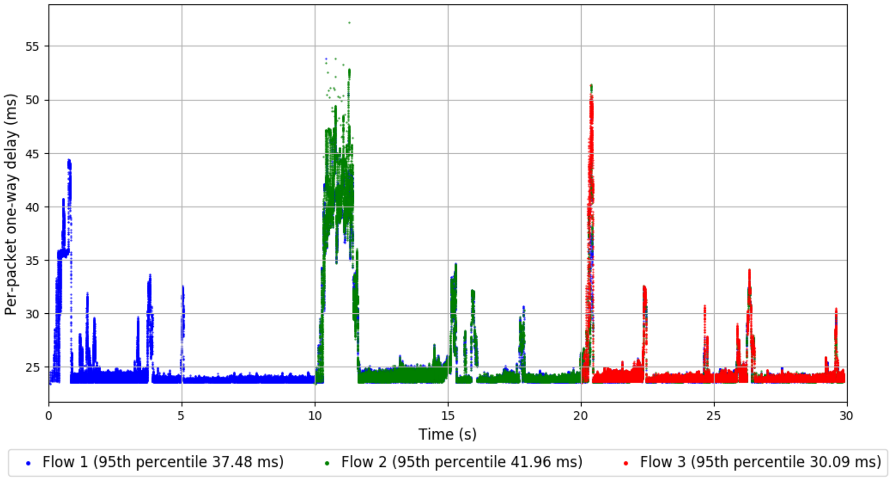




```
Run 6: Statistics of TCP Vegas

Start at: 2018-01-26 12:31:45
End at: 2018-01-26 12:32:15
Local clock offset: 1.349 ms
Remote clock offset: 0.473 ms

# Below is generated by plot.py at 2018-01-26 18:23:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.42 Mbit/s
95th percentile per-packet one-way delay: 39.644 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 32.29 Mbit/s
95th percentile per-packet one-way delay: 37.479 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 26.24 Mbit/s
95th percentile per-packet one-way delay: 41.957 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 29.14 Mbit/s
95th percentile per-packet one-way delay: 30.088 ms
Loss rate: 0.77%
```

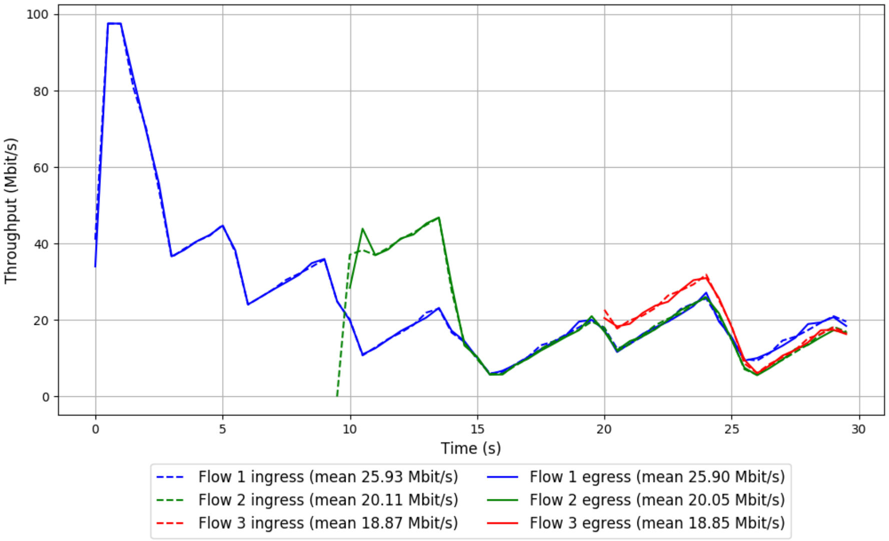
Run 6: Report of TCP Vegas — Data Link

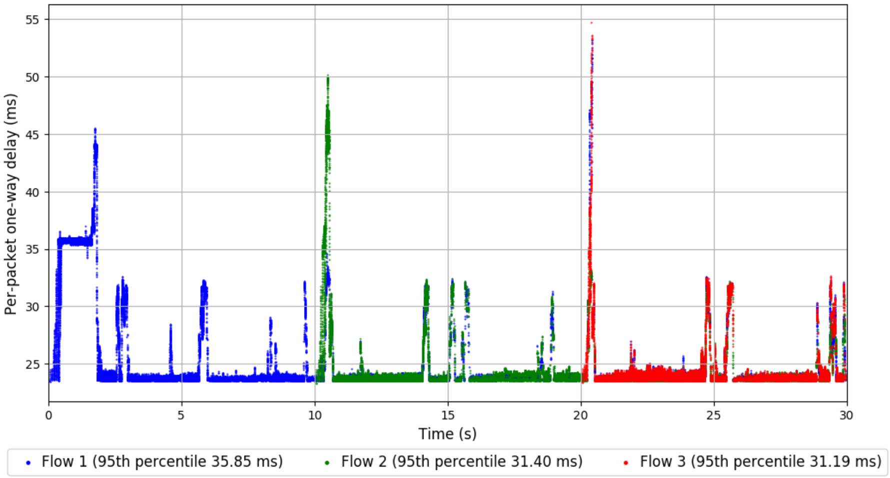




```
Run 7: Statistics of TCP Vegas

Start at: 2018-01-26 12:53:53
End at: 2018-01-26 12:54:23
Local clock offset: 1.345 ms
Remote clock offset: 0.713 ms

# Below is generated by plot.py at 2018-01-26 18:23:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 45.48 Mbit/s
95th percentile per-packet one-way delay: 35.802 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 25.90 Mbit/s
95th percentile per-packet one-way delay: 35.848 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 20.05 Mbit/s
95th percentile per-packet one-way delay: 31.397 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 18.85 Mbit/s
95th percentile per-packet one-way delay: 31.194 ms
Loss rate: 0.62%
```

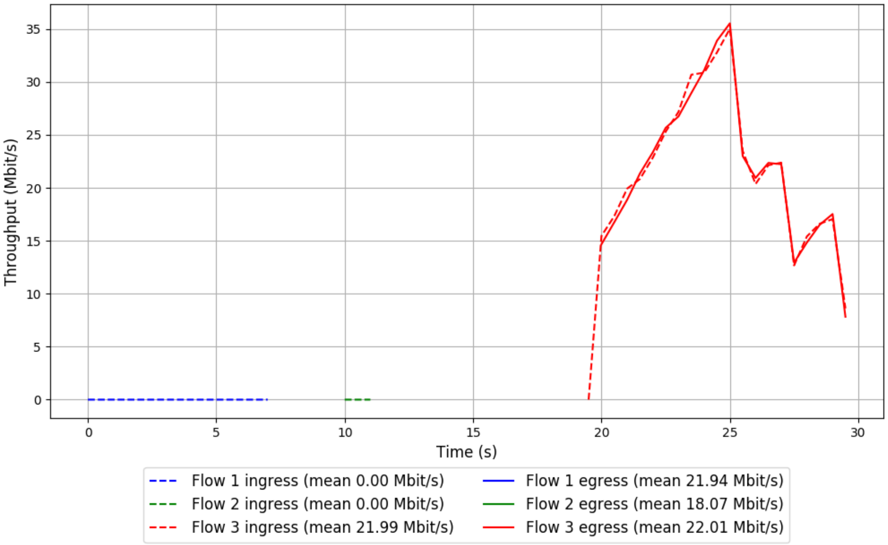
Run 7: Report of TCP Vegas — Data Link

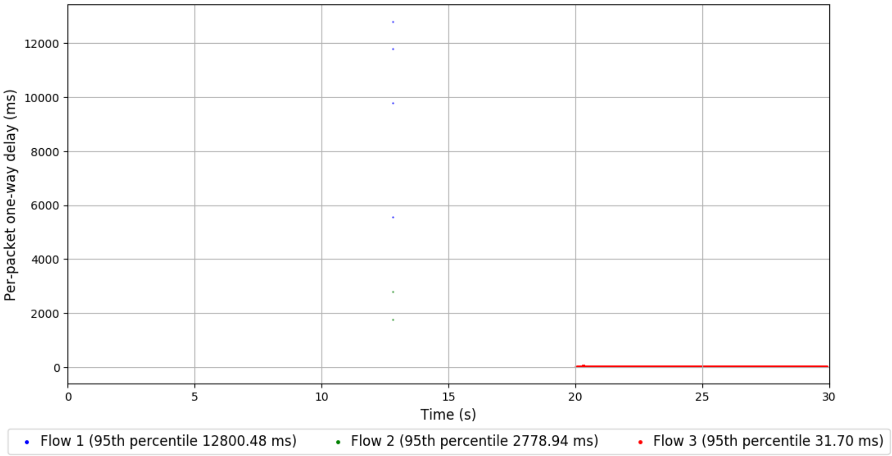




```
Run 8: Statistics of TCP Vegas

Start at: 2018-01-26 13:16:02
End at: 2018-01-26 13:16:32
Local clock offset: 1.456 ms
Remote clock offset: -1.678 ms
```

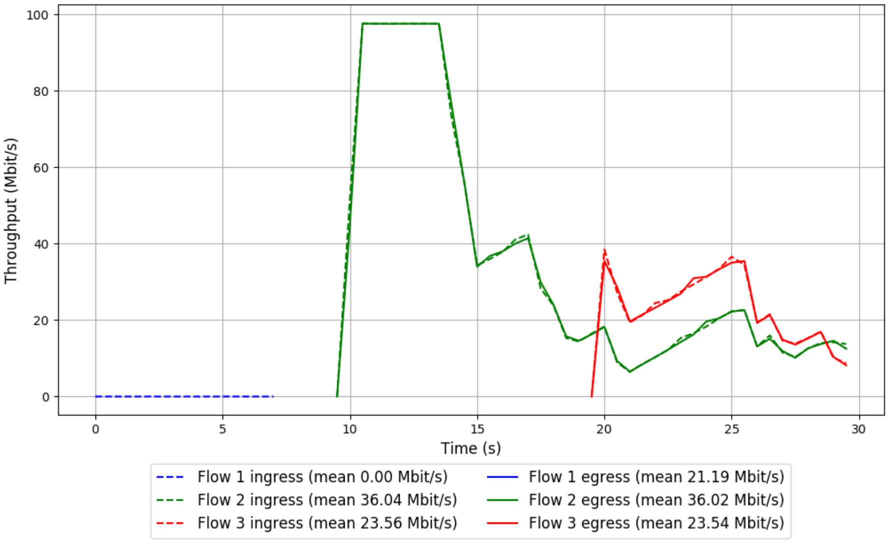
Run 8: Report of TCP Vegas — Data Link

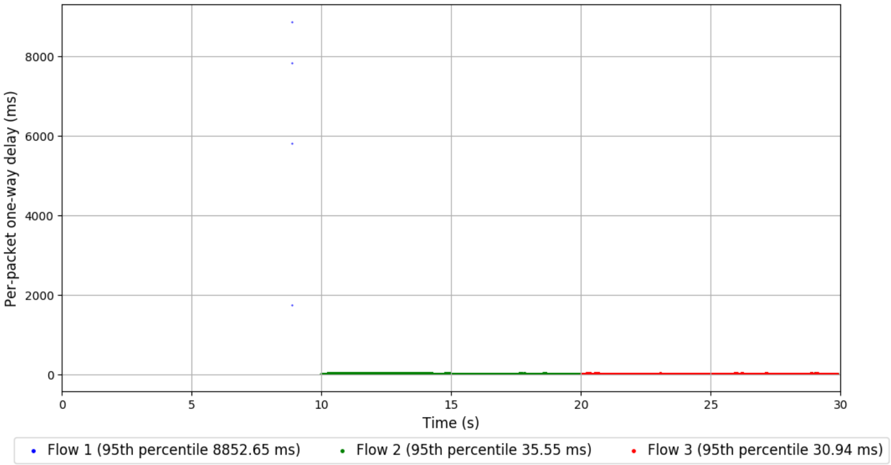




```
Run 9: Statistics of TCP Vegas

Start at: 2018-01-26 13:38:30
End at: 2018-01-26 13:39:00
Local clock offset: 1.632 ms
Remote clock offset: 0.281 ms
```

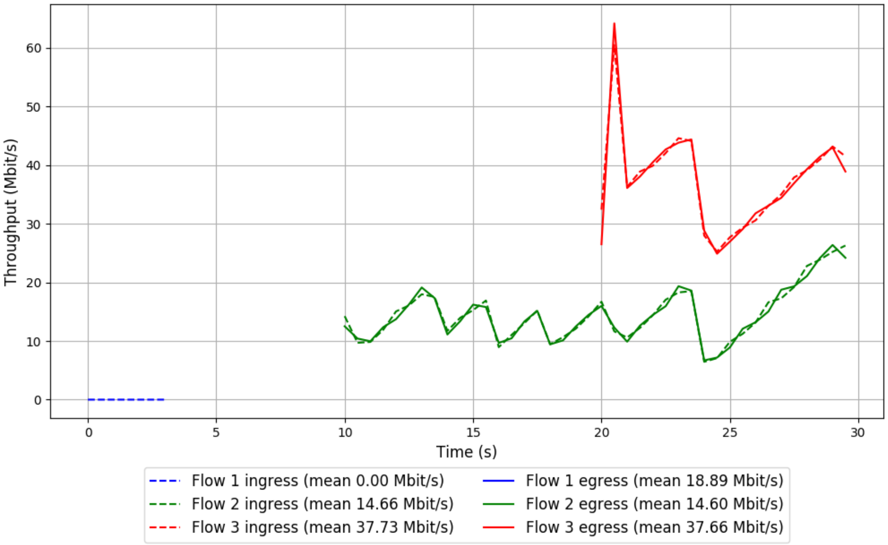
Run 9: Report of TCP Vegas — Data Link

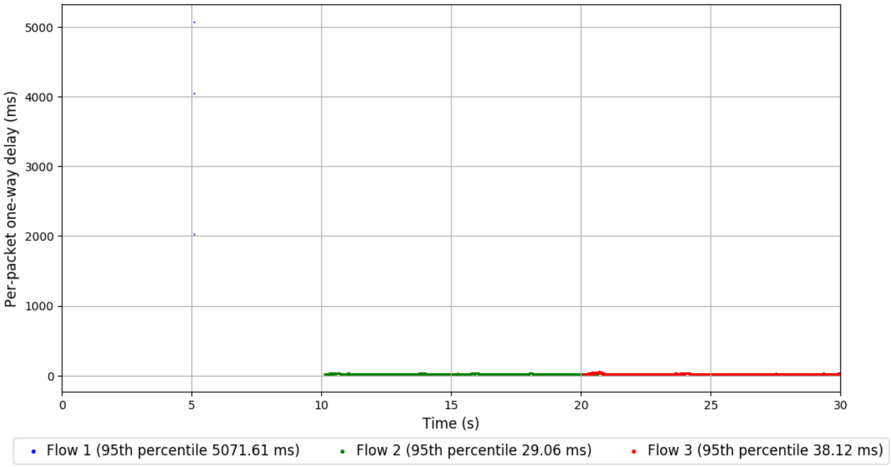




```
Run 10: Statistics of TCP Vegas

Start at: 2018-01-26 14:00:31
End at: 2018-01-26 14:01:01
Local clock offset: 1.637 ms
Remote clock offset: -0.24 ms

# Below is generated by plot.py at 2018-01-26 18:23:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 26.62 Mbit/s
95th percentile per-packet one-way delay: 31.588 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 18.89 Mbit/s
95th percentile per-packet one-way delay: 5071.615 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.60 Mbit/s
95th percentile per-packet one-way delay: 29.061 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 37.66 Mbit/s
95th percentile per-packet one-way delay: 38.125 ms
Loss rate: 0.73%
```

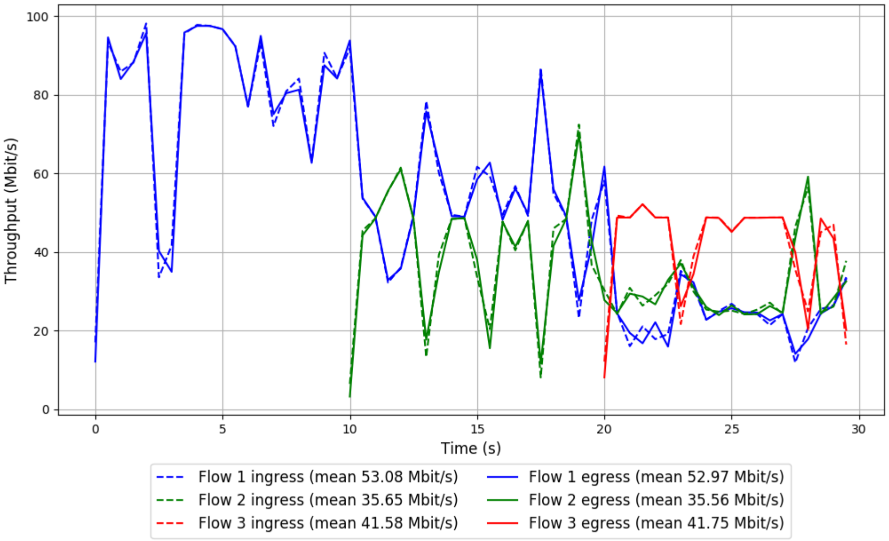
Run 10: Report of TCP Vegas — Data Link

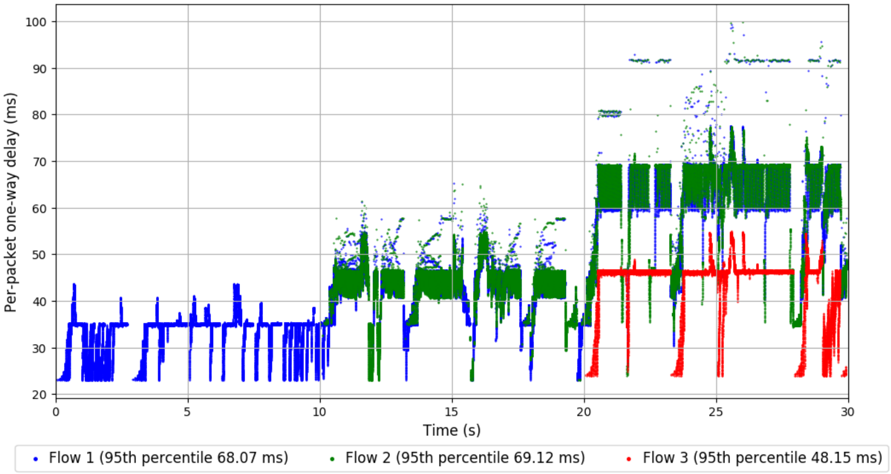




```
Run 1: Statistics of Verus

Start at: 2018-01-26 10:40:38
End at: 2018-01-26 10:41:08
Local clock offset: 1.324 ms
Remote clock offset: -0.381 ms

# Below is generated by plot.py at 2018-01-26 18:24:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.42 Mbit/s
95th percentile per-packet one-way delay: 68.886 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 52.97 Mbit/s
95th percentile per-packet one-way delay: 68.070 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 35.56 Mbit/s
95th percentile per-packet one-way delay: 69.121 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 41.75 Mbit/s
95th percentile per-packet one-way delay: 48.145 ms
Loss rate: 0.15%
```

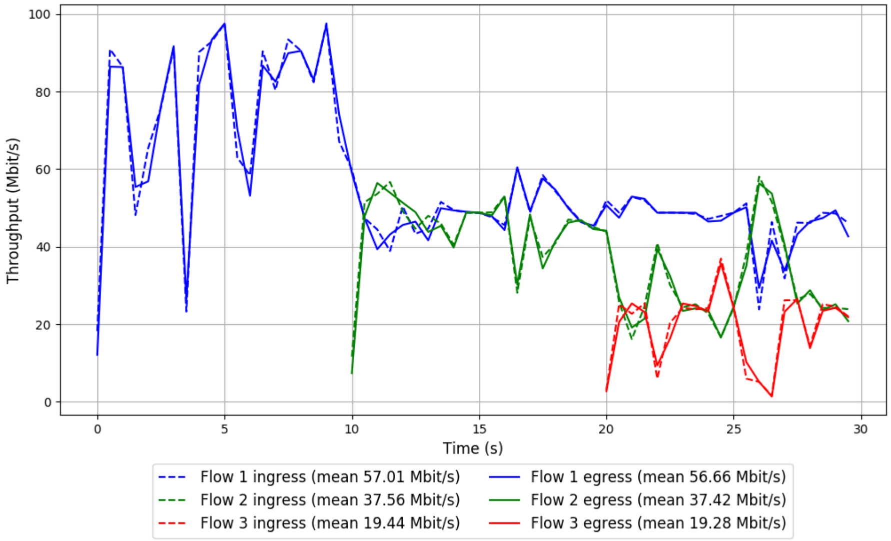
Run 1: Report of Verus — Data Link

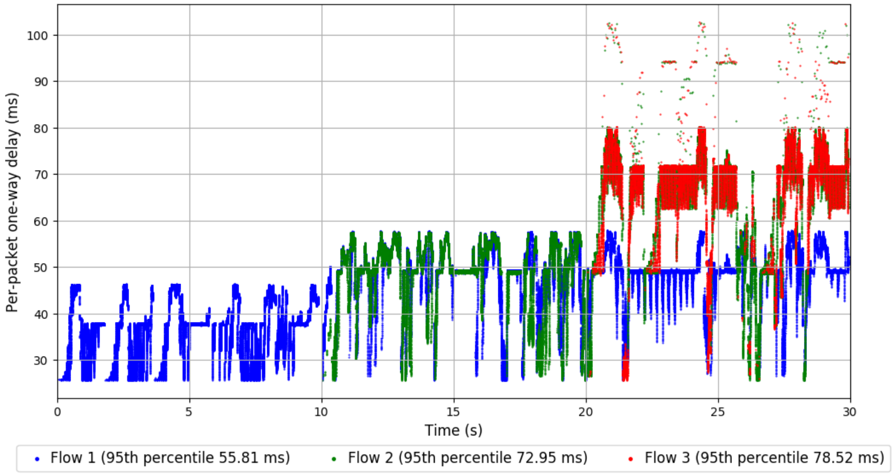




```
Run 2: Statistics of Verus

Start at: 2018-01-26 11:02:43
End at: 2018-01-26 11:03:13
Local clock offset: 1.308 ms
Remote clock offset: -2.594 ms

# Below is generated by plot.py at 2018-01-26 18:24:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.91 Mbit/s
95th percentile per-packet one-way delay: 71.542 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 56.66 Mbit/s
95th percentile per-packet one-way delay: 55.810 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 37.42 Mbit/s
95th percentile per-packet one-way delay: 72.951 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 19.28 Mbit/s
95th percentile per-packet one-way delay: 78.523 ms
Loss rate: 1.81%
```

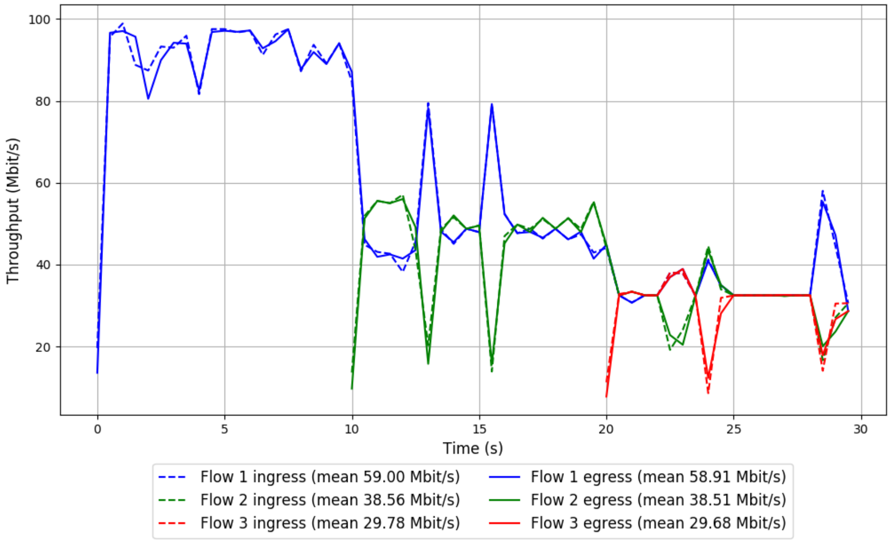
Run 2: Report of Verus — Data Link

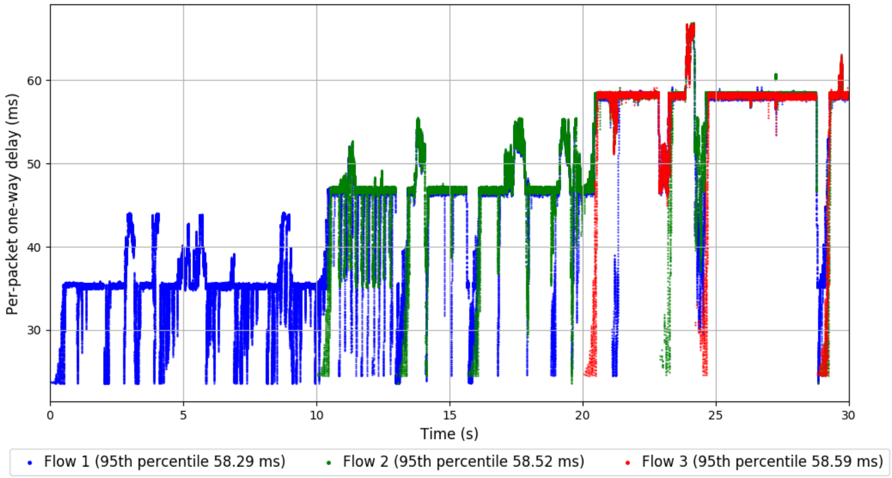




```
Run 3: Statistics of Verus

Start at: 2018-01-26 11:24:50
End at: 2018-01-26 11:25:20
Local clock offset: 1.35 ms
Remote clock offset: -0.551 ms

# Below is generated by plot.py at 2018-01-26 18:24:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.37 Mbit/s
95th percentile per-packet one-way delay: 58.452 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 58.91 Mbit/s
95th percentile per-packet one-way delay: 58.287 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 38.51 Mbit/s
95th percentile per-packet one-way delay: 58.523 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 29.68 Mbit/s
95th percentile per-packet one-way delay: 58.591 ms
Loss rate: 1.02%
```

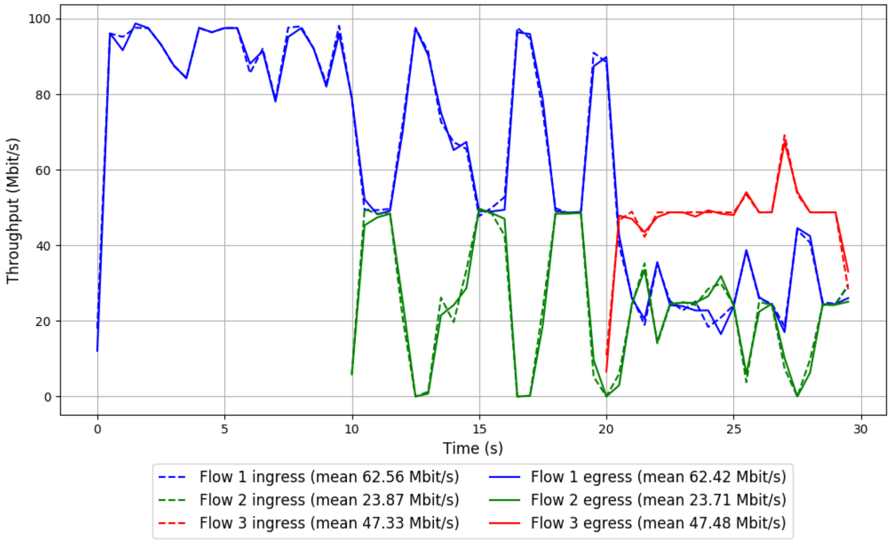
Run 3: Report of Verus — Data Link

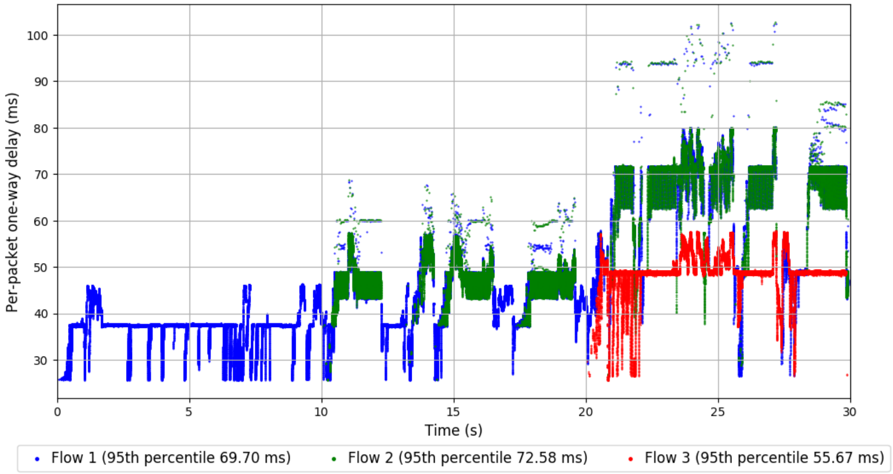




```
Run 4: Statistics of Verus

Start at: 2018-01-26 11:46:41
End at: 2018-01-26 11:47:11
Local clock offset: 1.317 ms
Remote clock offset: -2.298 ms

# Below is generated by plot.py at 2018-01-26 18:24:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.81 Mbit/s
95th percentile per-packet one-way delay: 71.166 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 62.42 Mbit/s
95th percentile per-packet one-way delay: 69.701 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 23.71 Mbit/s
95th percentile per-packet one-way delay: 72.576 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 47.48 Mbit/s
95th percentile per-packet one-way delay: 55.666 ms
Loss rate: 0.28%
```

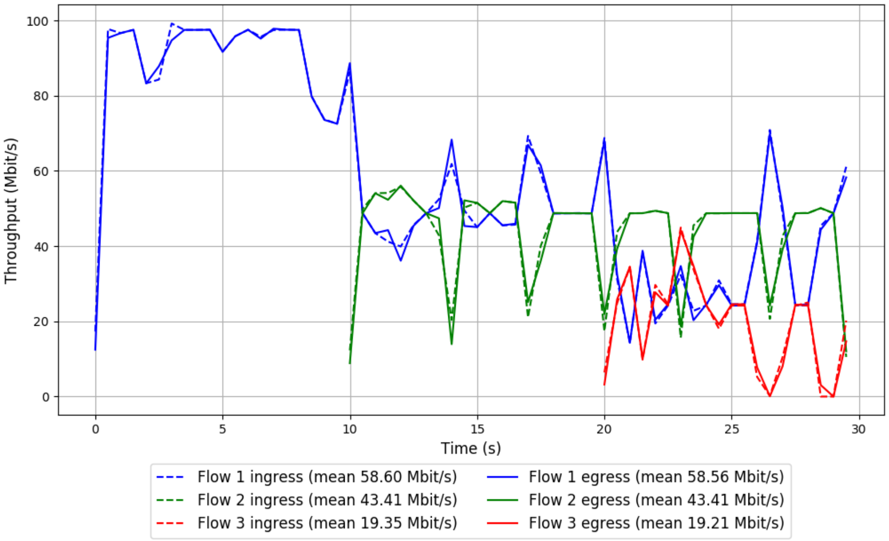
Run 4: Report of Verus — Data Link

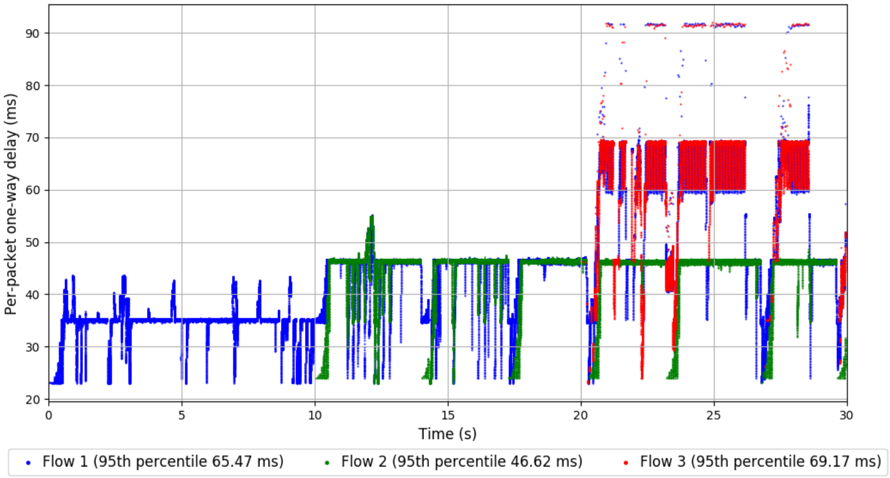




```
Run 5: Statistics of Verus

Start at: 2018-01-26 12:08:36
End at: 2018-01-26 12:09:06
Local clock offset: 1.23 ms
Remote clock offset: 0.699 ms

# Below is generated by plot.py at 2018-01-26 18:24:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.77 Mbit/s
95th percentile per-packet one-way delay: 67.614 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 58.56 Mbit/s
95th percentile per-packet one-way delay: 65.475 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 43.41 Mbit/s
95th percentile per-packet one-way delay: 46.625 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 19.21 Mbit/s
95th percentile per-packet one-way delay: 69.165 ms
Loss rate: 1.44%
```

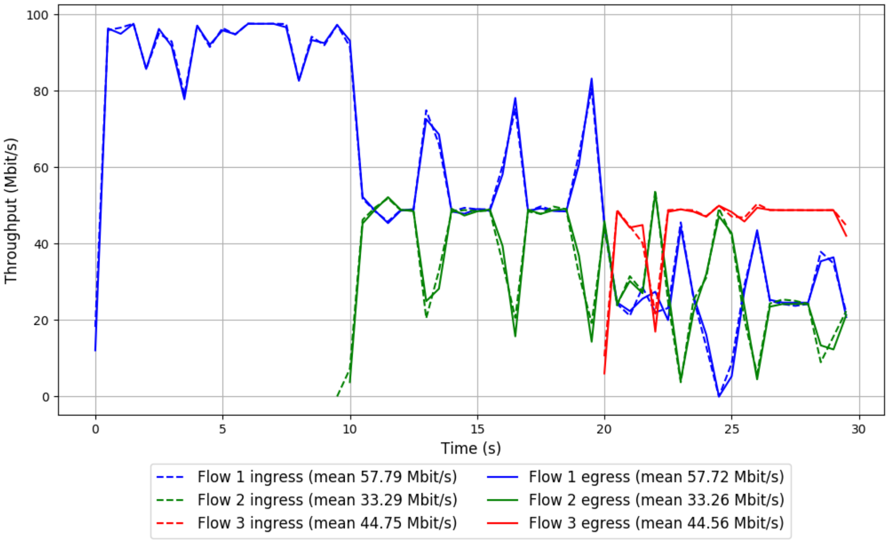
Run 5: Report of Verus — Data Link

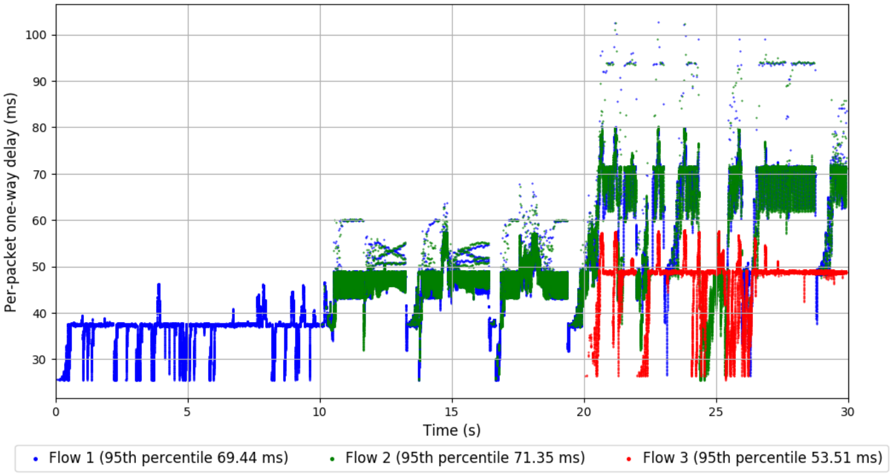




```
Run 6: Statistics of Verus

Start at: 2018-01-26 12:30:21
End at: 2018-01-26 12:30:51
Local clock offset: 1.382 ms
Remote clock offset: -1.374 ms

# Below is generated by plot.py at 2018-01-26 18:24:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.57 Mbit/s
95th percentile per-packet one-way delay: 70.658 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 57.72 Mbit/s
95th percentile per-packet one-way delay: 69.437 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 33.26 Mbit/s
95th percentile per-packet one-way delay: 71.350 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 44.56 Mbit/s
95th percentile per-packet one-way delay: 53.510 ms
Loss rate: 1.07%
```

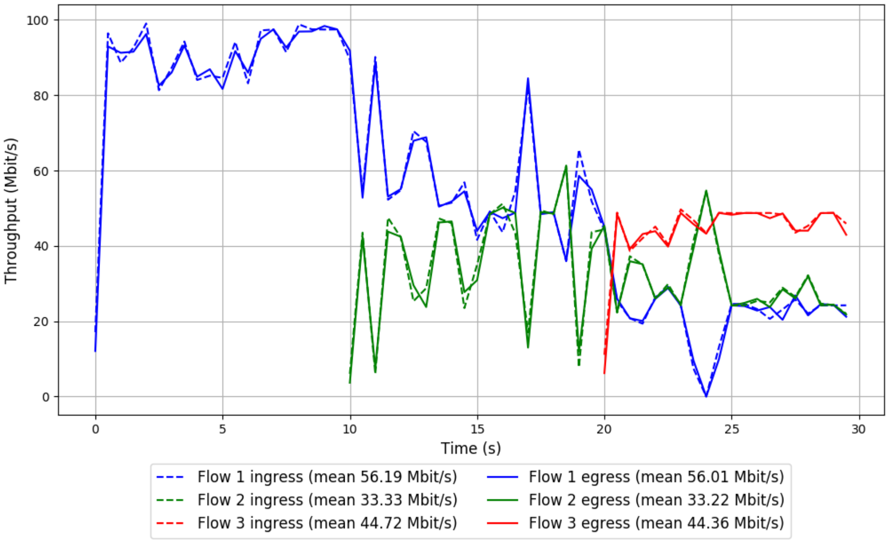
Run 6: Report of Verus — Data Link

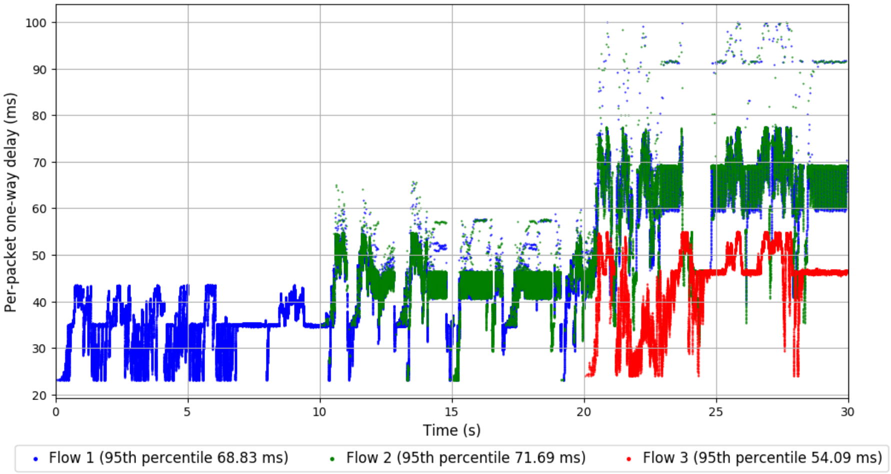




```
Run 7: Statistics of Verus

Start at: 2018-01-26 12:52:25
End at: 2018-01-26 12:52:55
Local clock offset: 1.452 ms
Remote clock offset: 1.231 ms

# Below is generated by plot.py at 2018-01-26 18:24:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.74 Mbit/s
95th percentile per-packet one-way delay: 69.024 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 56.01 Mbit/s
95th percentile per-packet one-way delay: 68.835 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 33.22 Mbit/s
95th percentile per-packet one-way delay: 71.690 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 44.36 Mbit/s
95th percentile per-packet one-way delay: 54.093 ms
Loss rate: 1.45%
```

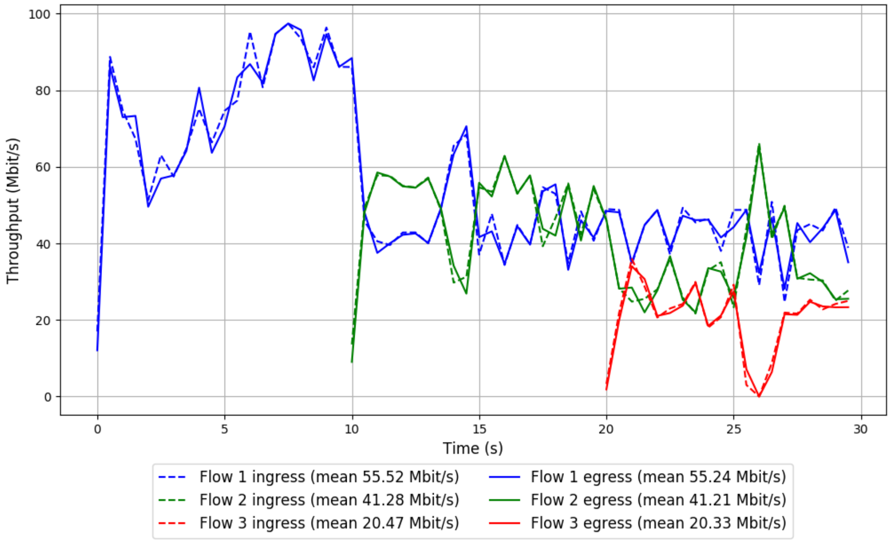
Run 7: Report of Verus — Data Link

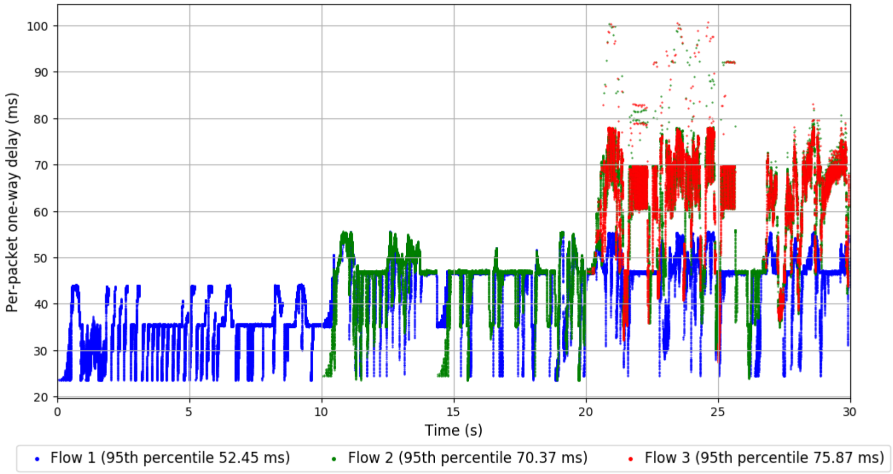




```
Run 8: Statistics of Verus

Start at: 2018-01-26 13:14:36
End at: 2018-01-26 13:15:06
Local clock offset: 1.461 ms
Remote clock offset: 0.422 ms

# Below is generated by plot.py at 2018-01-26 18:24:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.34 Mbit/s
95th percentile per-packet one-way delay: 68.962 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 55.24 Mbit/s
95th percentile per-packet one-way delay: 52.451 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 41.21 Mbit/s
95th percentile per-packet one-way delay: 70.373 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 20.33 Mbit/s
95th percentile per-packet one-way delay: 75.869 ms
Loss rate: 1.71%
```

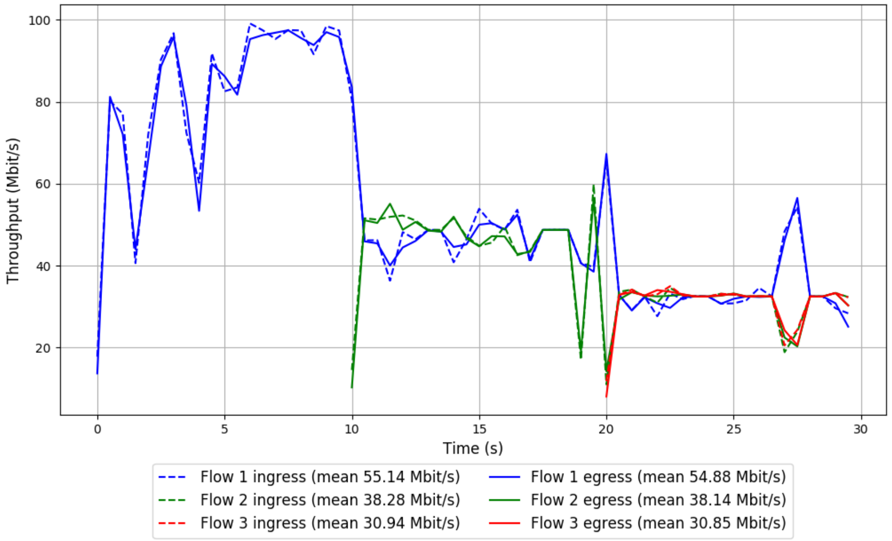
Run 8: Report of Verus — Data Link

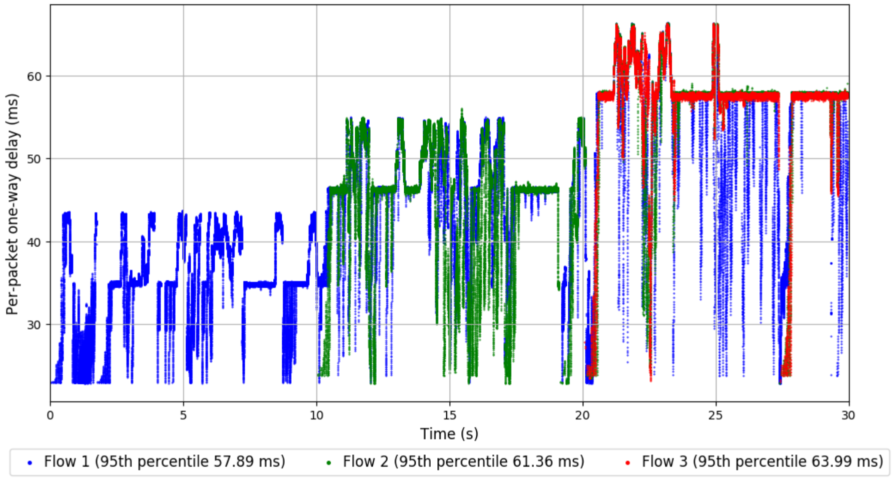




```
Run 9: Statistics of Verus

Start at: 2018-01-26 13:37:03
End at: 2018-01-26 13:37:33
Local clock offset: 1.63 ms
Remote clock offset: 0.553 ms

# Below is generated by plot.py at 2018-01-26 18:25:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.46 Mbit/s
95th percentile per-packet one-way delay: 59.930 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 54.88 Mbit/s
95th percentile per-packet one-way delay: 57.893 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 38.14 Mbit/s
95th percentile per-packet one-way delay: 61.362 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 30.85 Mbit/s
95th percentile per-packet one-way delay: 63.995 ms
Loss rate: 1.02%
```

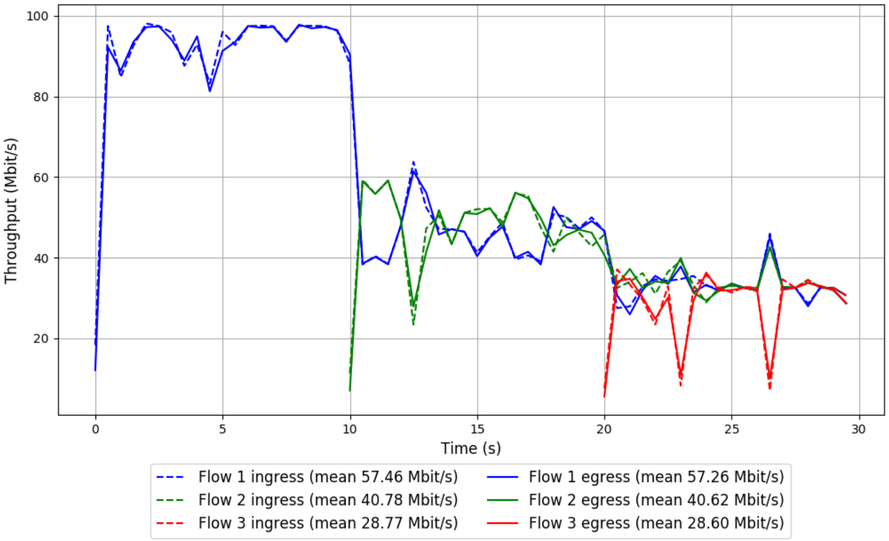
Run 9: Report of Verus — Data Link

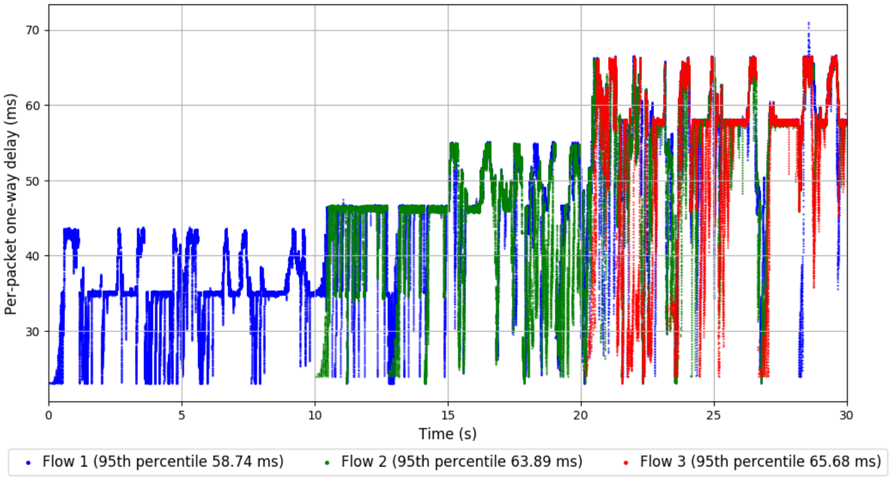




```
Run 10: Statistics of Verus

Start at: 2018-01-26 13:59:00
End at: 2018-01-26 13:59:30
Local clock offset: 1.633 ms
Remote clock offset: -0.233 ms

# Below is generated by plot.py at 2018-01-26 18:25:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.71 Mbit/s
95th percentile per-packet one-way delay: 63.434 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 57.26 Mbit/s
95th percentile per-packet one-way delay: 58.739 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 40.62 Mbit/s
95th percentile per-packet one-way delay: 63.893 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 28.60 Mbit/s
95th percentile per-packet one-way delay: 65.681 ms
Loss rate: 1.35%
```

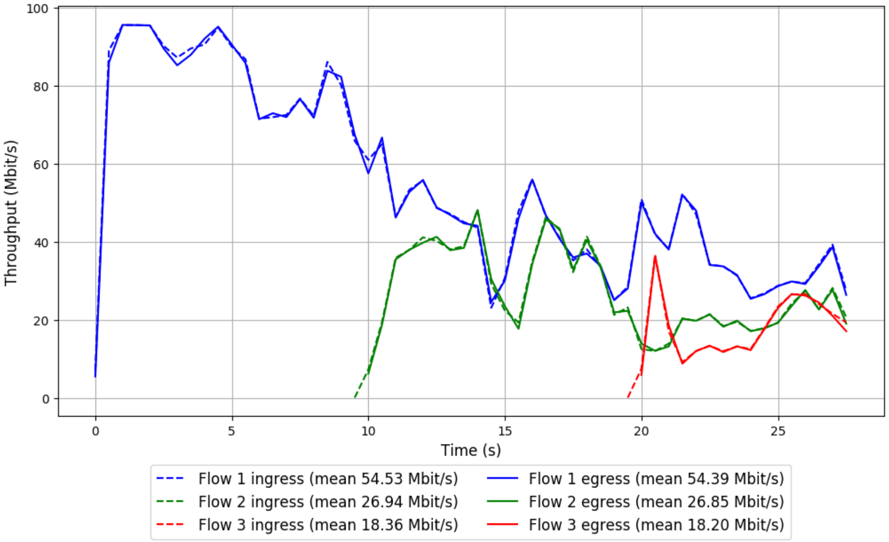
Run 10: Report of Verus — Data Link

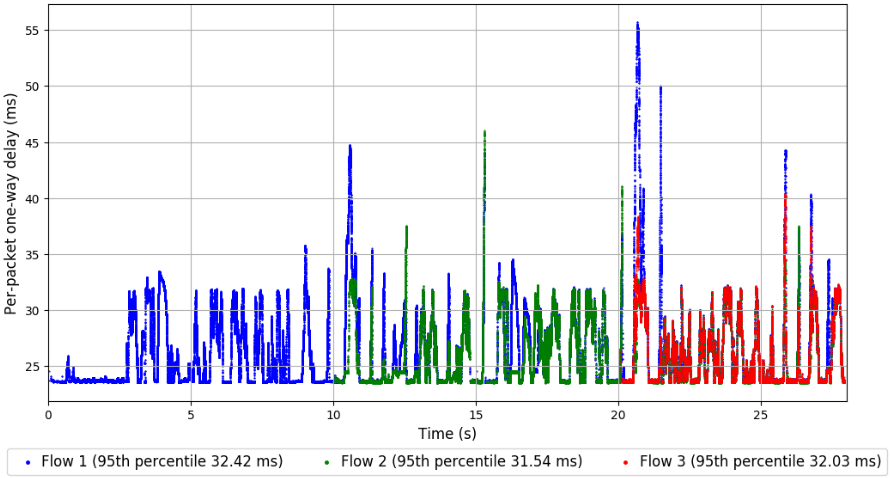




```
Run 1: Statistics of Copa

Start at: 2018-01-26 10:46:07
End at: 2018-01-26 10:46:37
Local clock offset: 1.424 ms
Remote clock offset: -0.748 ms

# Below is generated by plot.py at 2018-01-26 18:26:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.78 Mbit/s
95th percentile per-packet one-way delay: 31.960 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 54.39 Mbit/s
95th percentile per-packet one-way delay: 32.419 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 26.85 Mbit/s
95th percentile per-packet one-way delay: 31.540 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 18.20 Mbit/s
95th percentile per-packet one-way delay: 32.029 ms
Loss rate: 1.53%
```

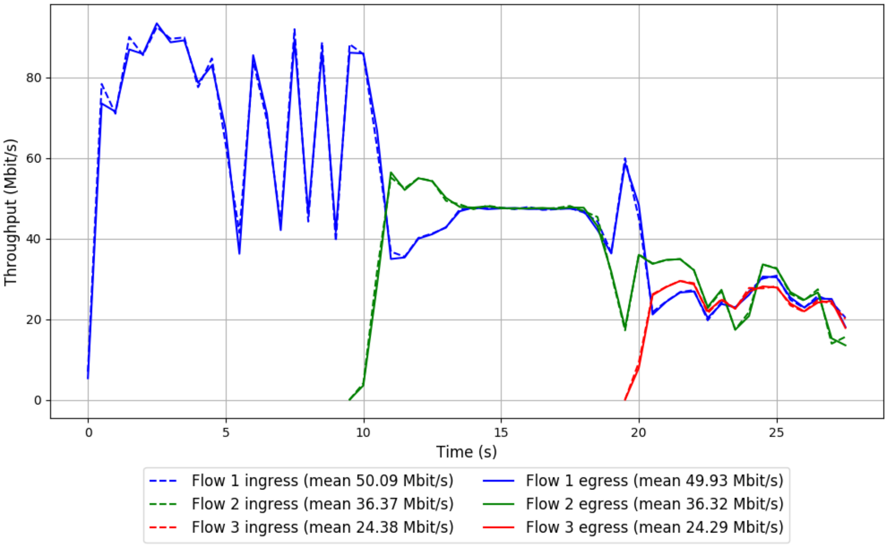
Run 1: Report of Copa — Data Link

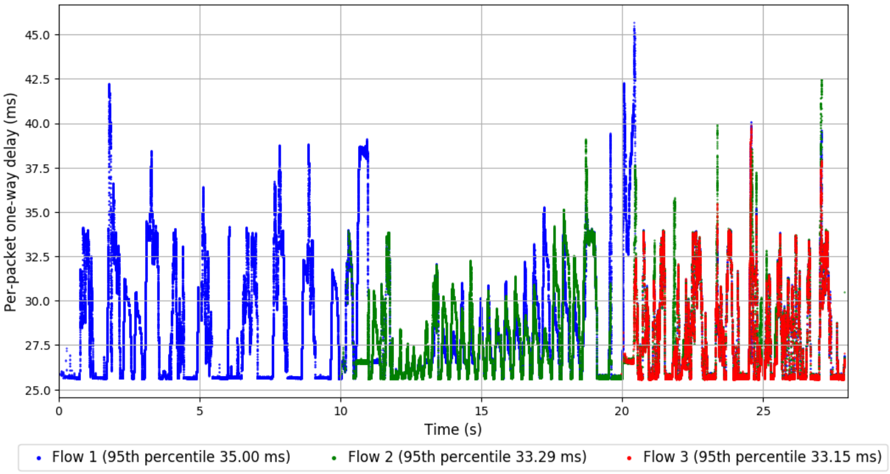




```
Run 2: Statistics of Copa

Start at: 2018-01-26 11:08:18
End at: 2018-01-26 11:08:48
Local clock offset: 1.3 ms
Remote clock offset: -2.618 ms

# Below is generated by plot.py at 2018-01-26 18:26:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.18 Mbit/s
95th percentile per-packet one-way delay: 33.880 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 49.93 Mbit/s
95th percentile per-packet one-way delay: 34.996 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 36.32 Mbit/s
95th percentile per-packet one-way delay: 33.290 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 24.29 Mbit/s
95th percentile per-packet one-way delay: 33.150 ms
Loss rate: 1.04%
```

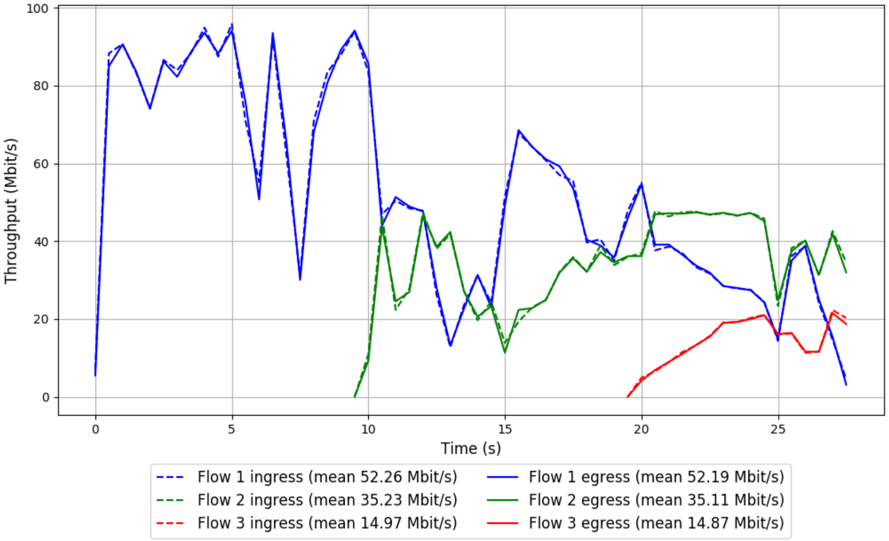
Run 2: Report of Copa — Data Link

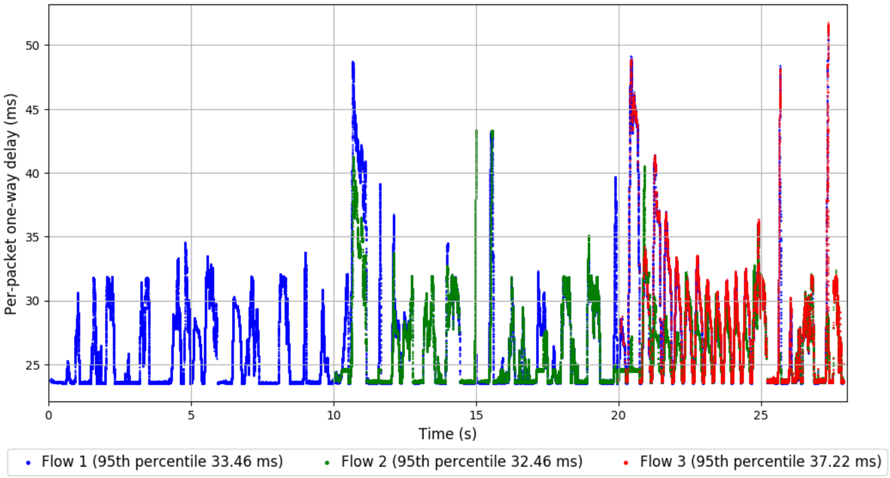




```
Run 3: Statistics of Copa

Start at: 2018-01-26 11:30:18
End at: 2018-01-26 11:30:48
Local clock offset: 1.193 ms
Remote clock offset: -0.638 ms

# Below is generated by plot.py at 2018-01-26 18:26:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.97 Mbit/s
95th percentile per-packet one-way delay: 33.440 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 52.19 Mbit/s
95th percentile per-packet one-way delay: 33.457 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 35.11 Mbit/s
95th percentile per-packet one-way delay: 32.458 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 14.87 Mbit/s
95th percentile per-packet one-way delay: 37.220 ms
Loss rate: 1.31%
```

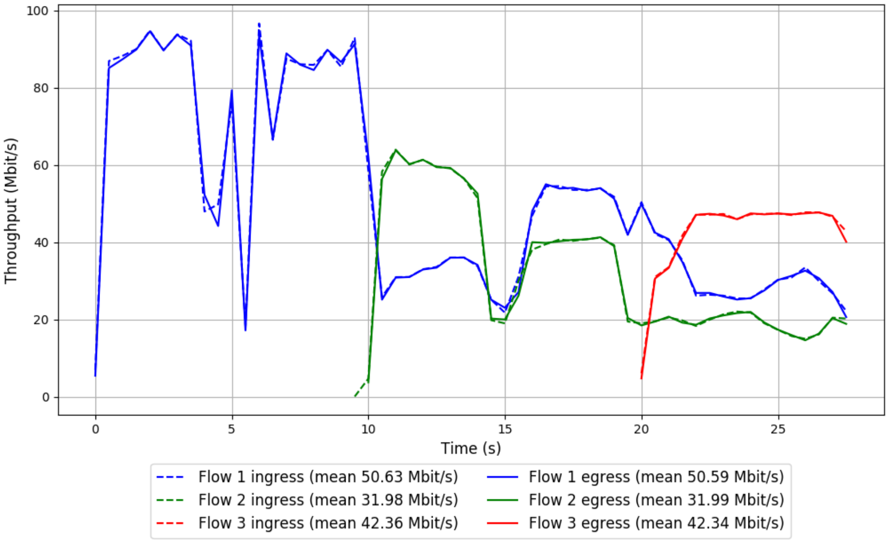
Run 3: Report of Copa — Data Link

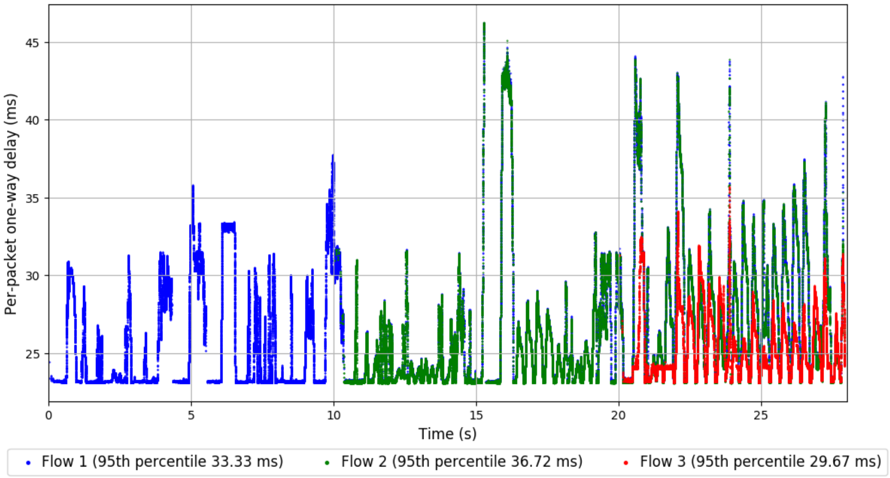




```
Run 4: Statistics of Copa

Start at: 2018-01-26 11:52:10
End at: 2018-01-26 11:52:40
Local clock offset: 1.309 ms
Remote clock offset: 0.35 ms

# Below is generated by plot.py at 2018-01-26 18:26:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.08 Mbit/s
95th percentile per-packet one-way delay: 33.287 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 50.59 Mbit/s
95th percentile per-packet one-way delay: 33.331 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 31.99 Mbit/s
95th percentile per-packet one-way delay: 36.717 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 42.34 Mbit/s
95th percentile per-packet one-way delay: 29.668 ms
Loss rate: 0.82%
```

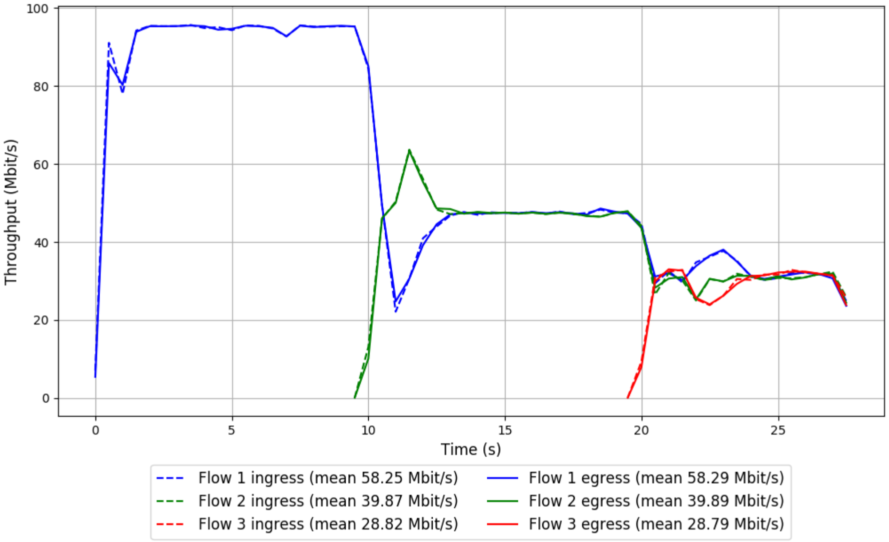
Run 4: Report of Copa — Data Link

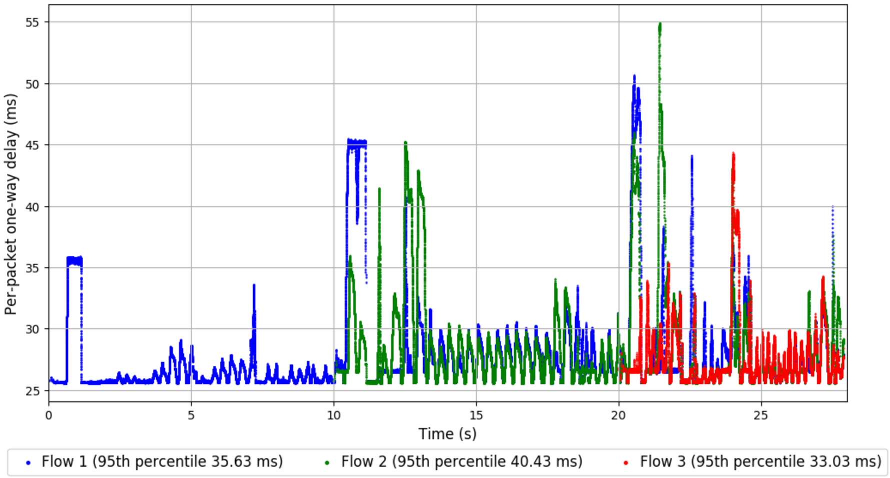




```
Run 5: Statistics of Copa

Start at: 2018-01-26 12:14:02
End at: 2018-01-26 12:14:32
Local clock offset: 1.309 ms
Remote clock offset: -1.703 ms

# Below is generated by plot.py at 2018-01-26 18:27:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.11 Mbit/s
95th percentile per-packet one-way delay: 35.686 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 58.29 Mbit/s
95th percentile per-packet one-way delay: 35.629 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 39.89 Mbit/s
95th percentile per-packet one-way delay: 40.428 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 28.79 Mbit/s
95th percentile per-packet one-way delay: 33.035 ms
Loss rate: 0.79%
```

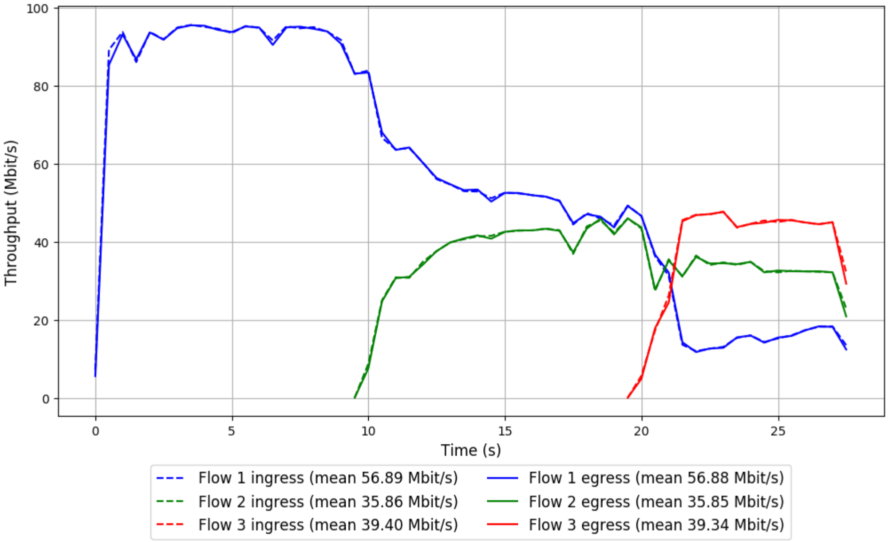
Run 5: Report of Copa — Data Link

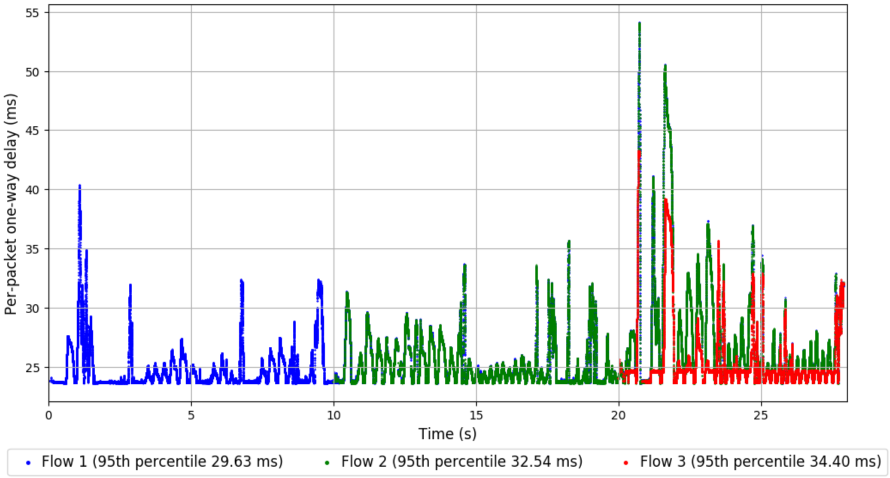




```
Run 6: Statistics of Copa

Start at: 2018-01-26 12:35:47
End at: 2018-01-26 12:36:17
Local clock offset: 1.401 ms
Remote clock offset: 0.539 ms

# Below is generated by plot.py at 2018-01-26 18:27:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.09 Mbit/s
95th percentile per-packet one-way delay: 31.007 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 56.88 Mbit/s
95th percentile per-packet one-way delay: 29.626 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 35.85 Mbit/s
95th percentile per-packet one-way delay: 32.539 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 39.34 Mbit/s
95th percentile per-packet one-way delay: 34.397 ms
Loss rate: 0.84%
```

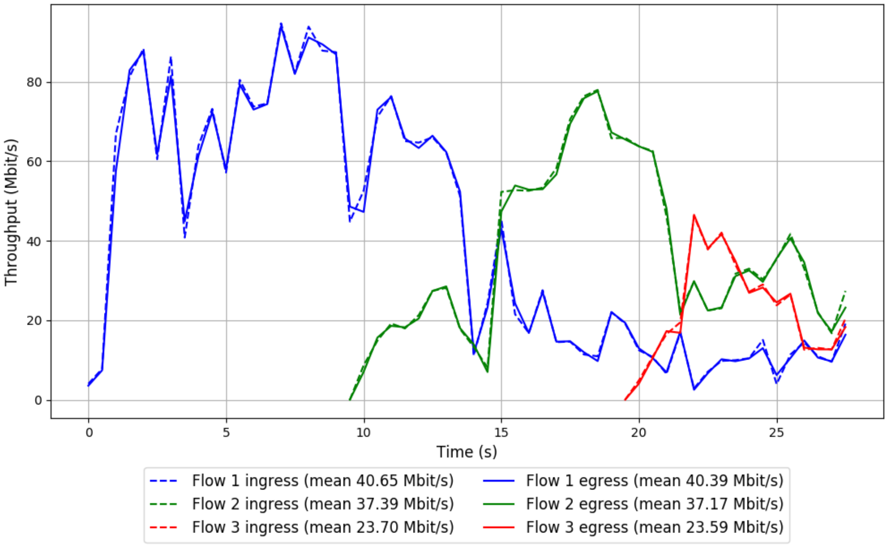
Run 6: Report of Copa — Data Link

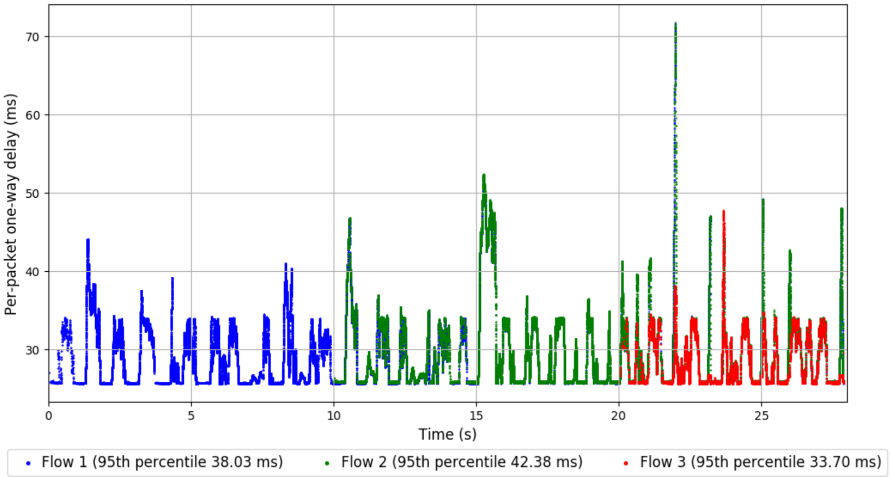




```
Run 7: Statistics of Copa

Start at: 2018-01-26 12:58:01
End at: 2018-01-26 12:58:31
Local clock offset: 1.439 ms
Remote clock offset: -1.317 ms

# Below is generated by plot.py at 2018-01-26 18:27:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.96 Mbit/s
95th percentile per-packet one-way delay: 38.507 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 40.39 Mbit/s
95th percentile per-packet one-way delay: 38.027 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 37.17 Mbit/s
95th percentile per-packet one-way delay: 42.377 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 23.59 Mbit/s
95th percentile per-packet one-way delay: 33.695 ms
Loss rate: 1.06%
```

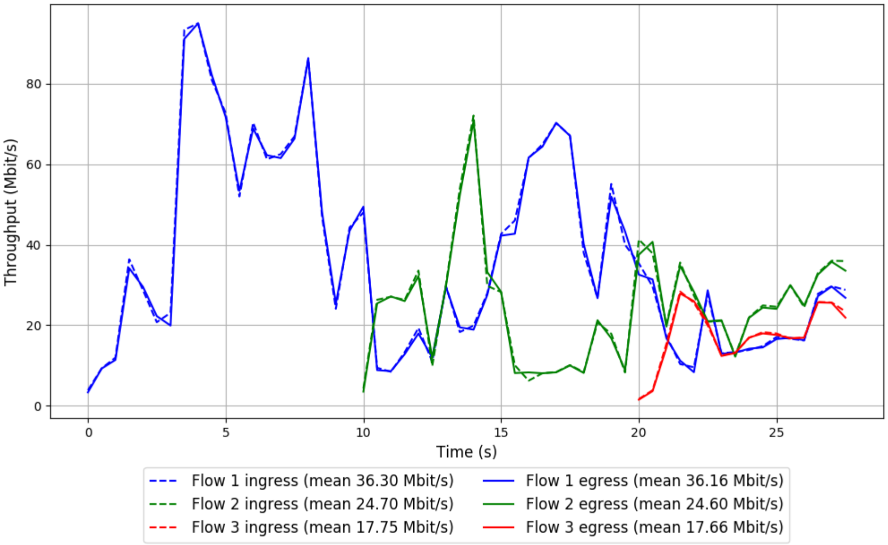
Run 7: Report of Copa — Data Link

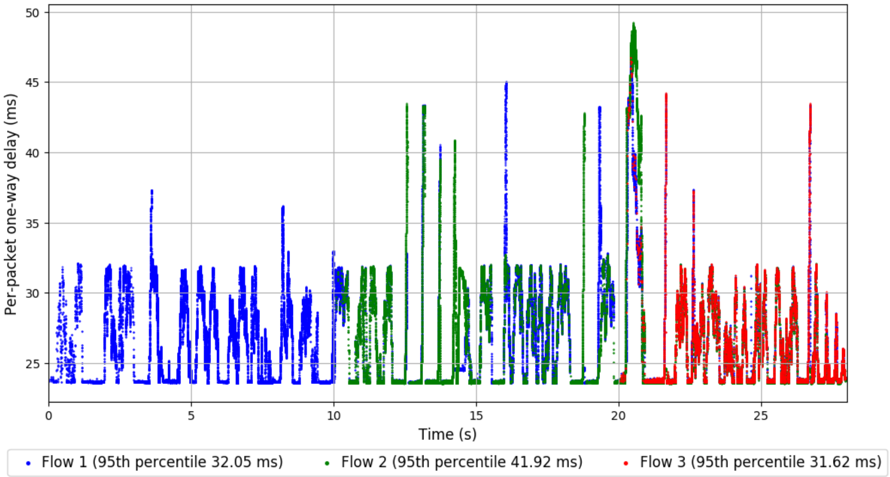




```
Run 8: Statistics of Copa

Start at: 2018-01-26 13:20:14
End at: 2018-01-26 13:20:44
Local clock offset: 1.579 ms
Remote clock offset: 0.361 ms

# Below is generated by plot.py at 2018-01-26 18:27:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 56.94 Mbit/s
95th percentile per-packet one-way delay: 33.557 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 36.16 Mbit/s
95th percentile per-packet one-way delay: 32.045 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 24.60 Mbit/s
95th percentile per-packet one-way delay: 41.920 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 17.66 Mbit/s
95th percentile per-packet one-way delay: 31.624 ms
Loss rate: 1.16%
```

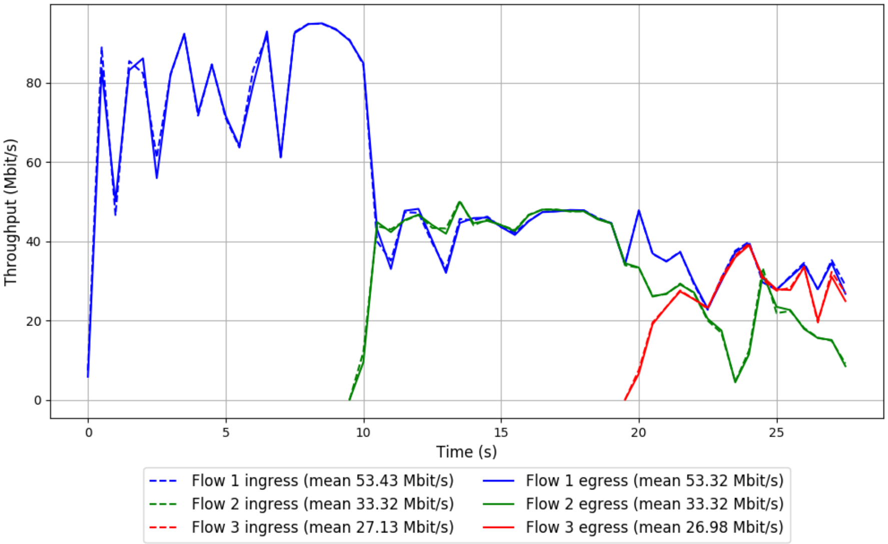
Run 8: Report of Copa — Data Link

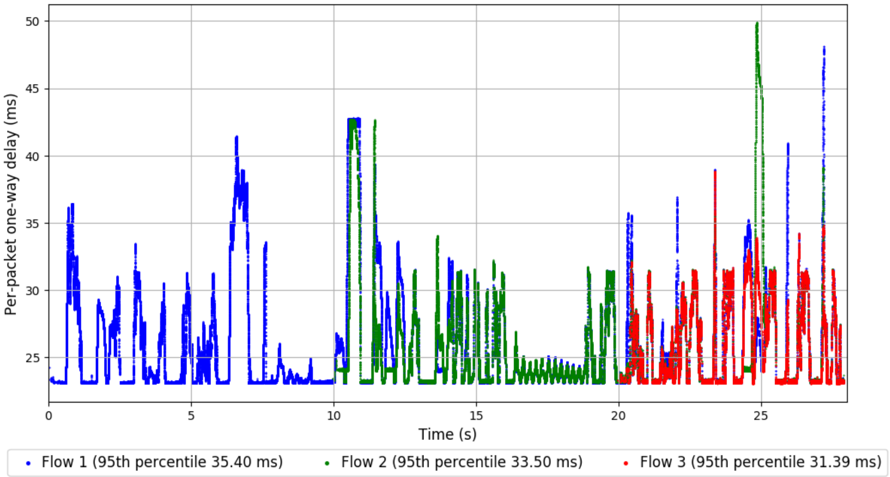




```
Run 9: Statistics of Copa

Start at: 2018-01-26 13:42:34
End at: 2018-01-26 13:43:04
Local clock offset: 1.626 ms
Remote clock offset: 0.189 ms

# Below is generated by plot.py at 2018-01-26 18:28:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.40 Mbit/s
95th percentile per-packet one-way delay: 34.460 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 53.32 Mbit/s
95th percentile per-packet one-way delay: 35.398 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 33.32 Mbit/s
95th percentile per-packet one-way delay: 33.500 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 26.98 Mbit/s
95th percentile per-packet one-way delay: 31.386 ms
Loss rate: 1.21%
```

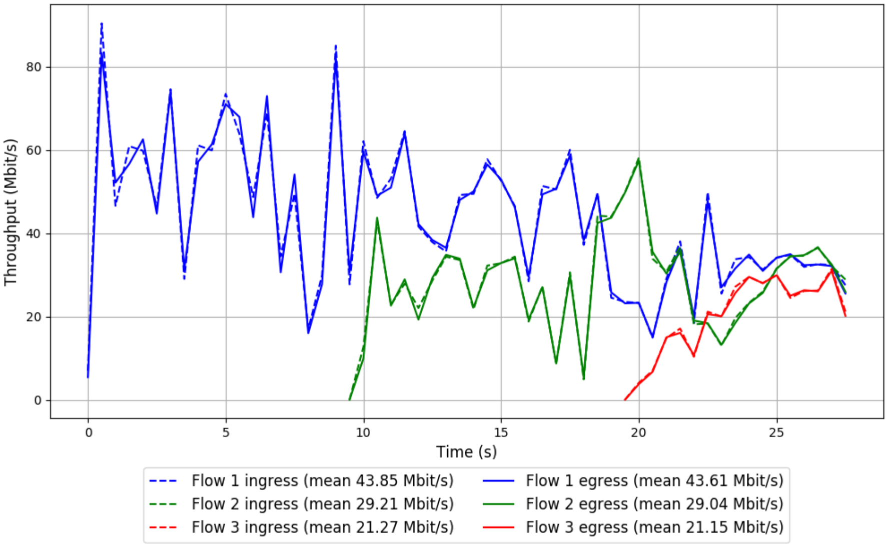
Run 9: Report of Copa — Data Link

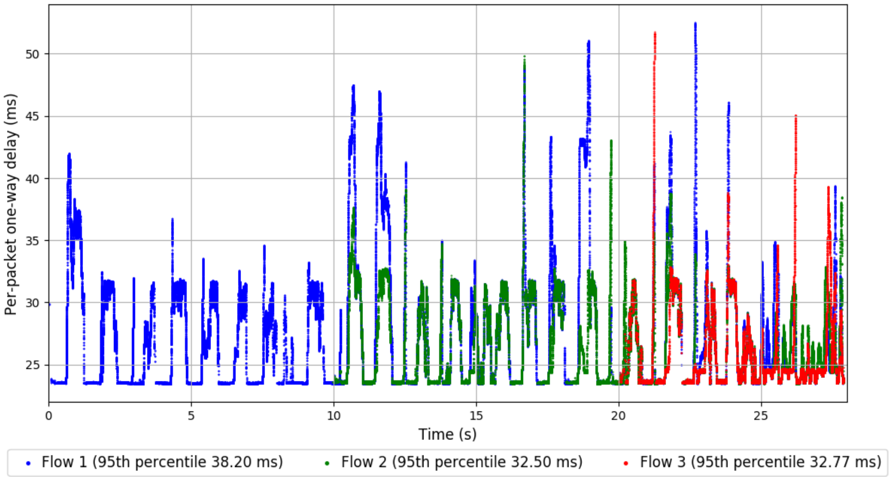




```
Run 10: Statistics of Copa

Start at: 2018-01-26 14:04:34
End at: 2018-01-26 14:05:04
Local clock offset: 1.672 ms
Remote clock offset: -0.714 ms

# Below is generated by plot.py at 2018-01-26 18:28:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.27 Mbit/s
95th percentile per-packet one-way delay: 36.746 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 43.61 Mbit/s
95th percentile per-packet one-way delay: 38.205 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 29.04 Mbit/s
95th percentile per-packet one-way delay: 32.502 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 21.15 Mbit/s
95th percentile per-packet one-way delay: 32.769 ms
Loss rate: 1.21%
```

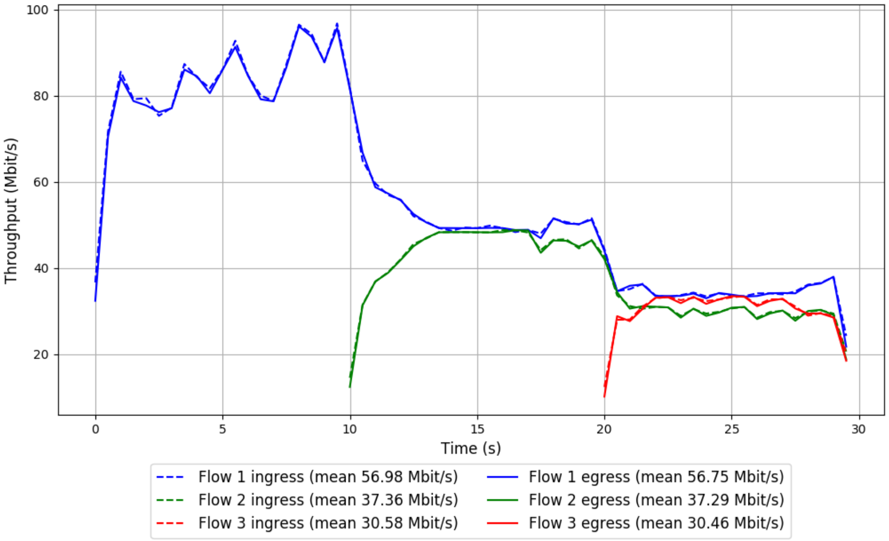
Run 10: Report of Copa — Data Link

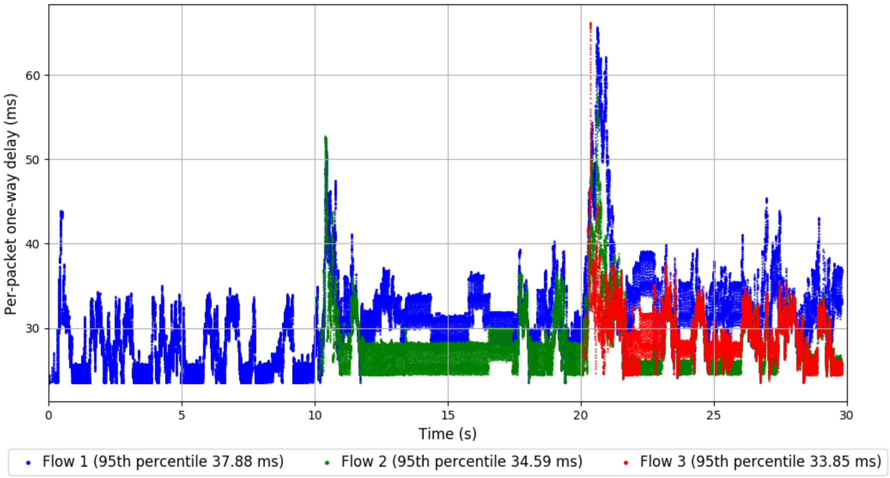




```
Run 1: Statistics of Indigo-2-256

Start at: 2018-01-26 10:51:46
End at: 2018-01-26 10:52:16
Local clock offset: 1.383 ms
Remote clock offset: -0.686 ms

# Below is generated by plot.py at 2018-01-26 18:28:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.38 Mbit/s
95th percentile per-packet one-way delay: 36.695 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 56.75 Mbit/s
95th percentile per-packet one-way delay: 37.878 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 37.29 Mbit/s
95th percentile per-packet one-way delay: 34.586 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 30.46 Mbit/s
95th percentile per-packet one-way delay: 33.847 ms
Loss rate: 0.97%
```

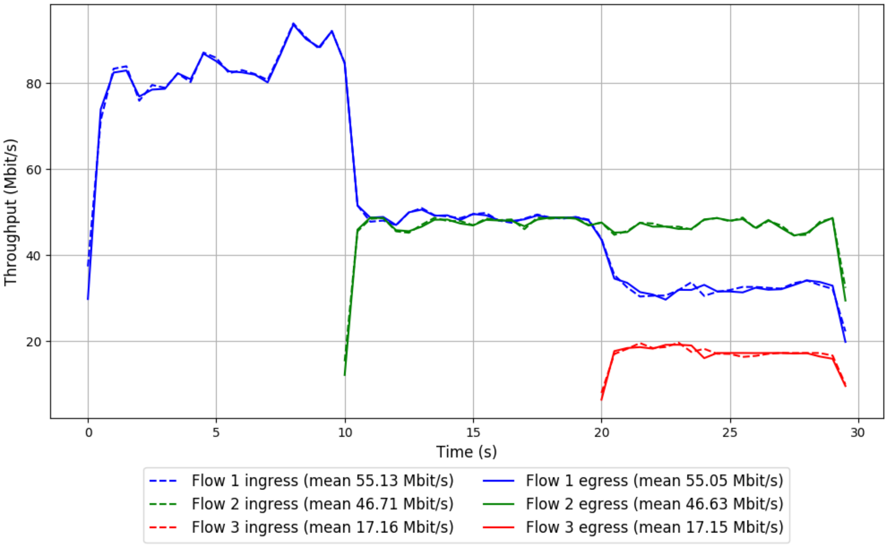
Run 1: Report of Indigo-2-256 — Data Link

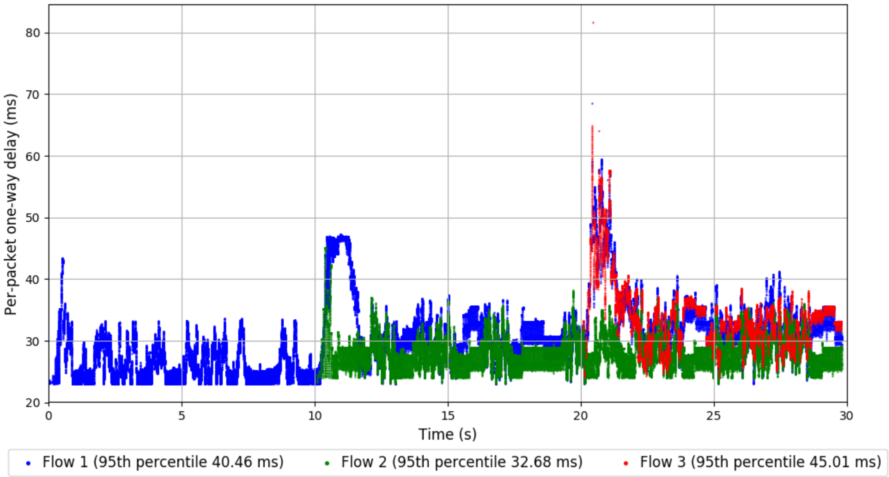




```
Run 2: Statistics of Indigo-2-256

Start at: 2018-01-26 11:13:55
End at: 2018-01-26 11:14:25
Local clock offset: 1.222 ms
Remote clock offset: -0.195 ms

# Below is generated by plot.py at 2018-01-26 18:28:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.49 Mbit/s
95th percentile per-packet one-way delay: 37.324 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 55.05 Mbit/s
95th percentile per-packet one-way delay: 40.458 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 46.63 Mbit/s
95th percentile per-packet one-way delay: 32.684 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 17.15 Mbit/s
95th percentile per-packet one-way delay: 45.013 ms
Loss rate: 0.69%
```

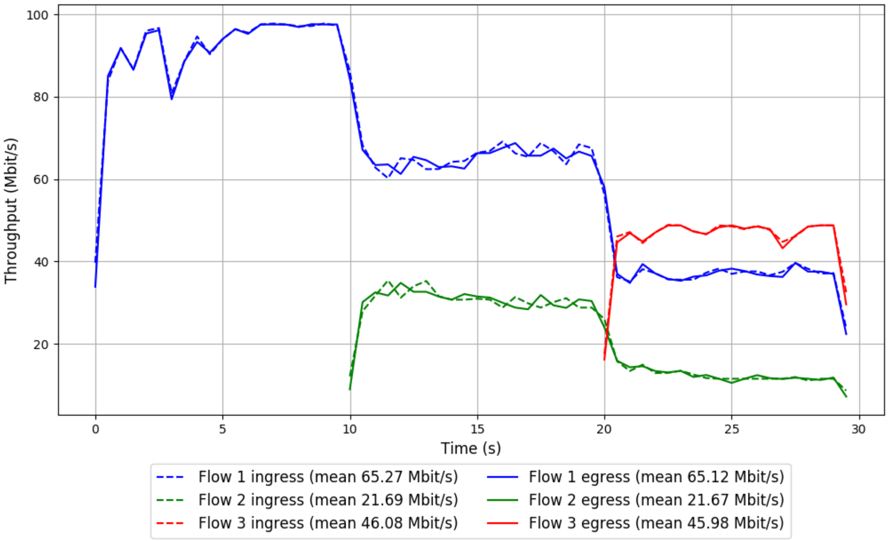
Run 2: Report of Indigo-2-256 — Data Link

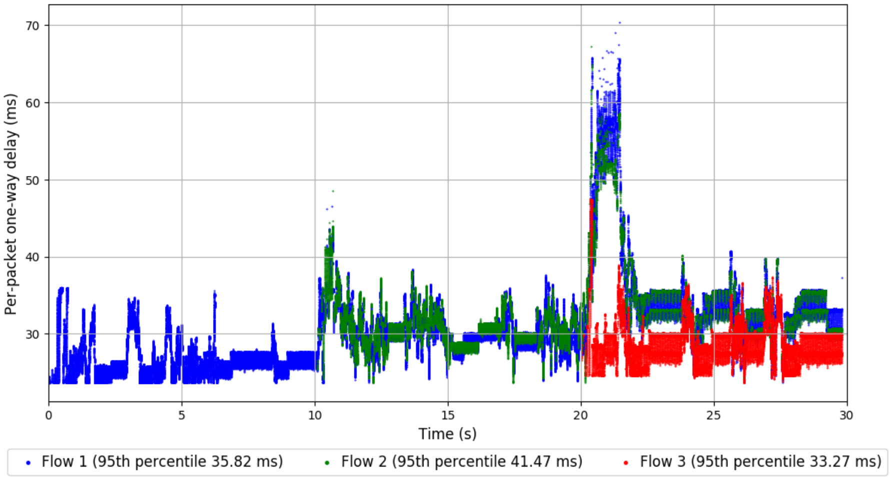




```
Run 3: Statistics of Indigo-2-256

Start at: 2018-01-26 11:35:50
End at: 2018-01-26 11:36:20
Local clock offset: 1.305 ms
Remote clock offset: -0.562 ms

# Below is generated by plot.py at 2018-01-26 18:28:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.53 Mbit/s
95th percentile per-packet one-way delay: 35.863 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 65.12 Mbit/s
95th percentile per-packet one-way delay: 35.822 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 21.67 Mbit/s
95th percentile per-packet one-way delay: 41.468 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 45.98 Mbit/s
95th percentile per-packet one-way delay: 33.275 ms
Loss rate: 0.79%
```

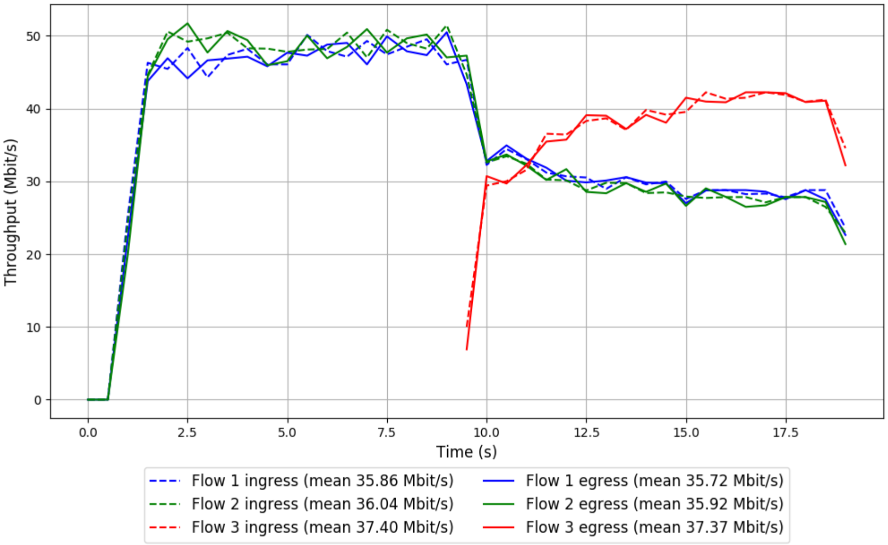
Run 3: Report of Indigo-2-256 — Data Link

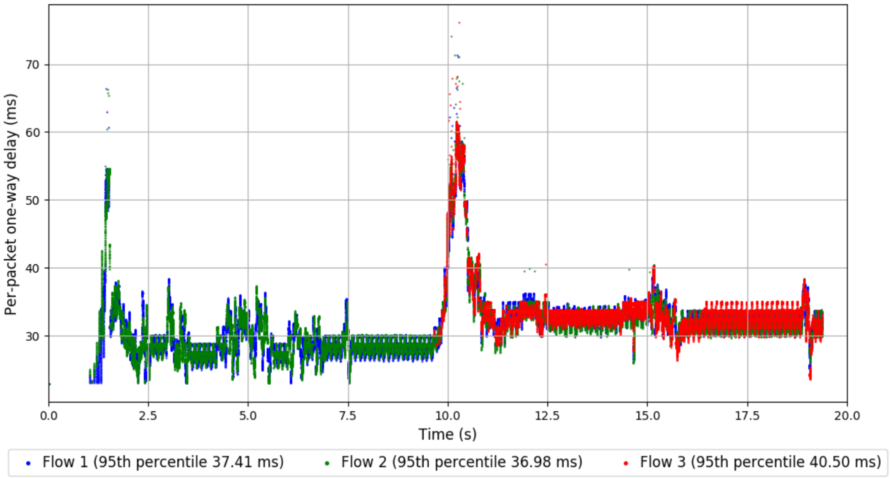




```
Run 4: Statistics of Indigo-2-256

Start at: 2018-01-26 11:57:49
End at: 2018-01-26 11:58:19
Local clock offset: 1.319 ms
Remote clock offset: 0.564 ms
```

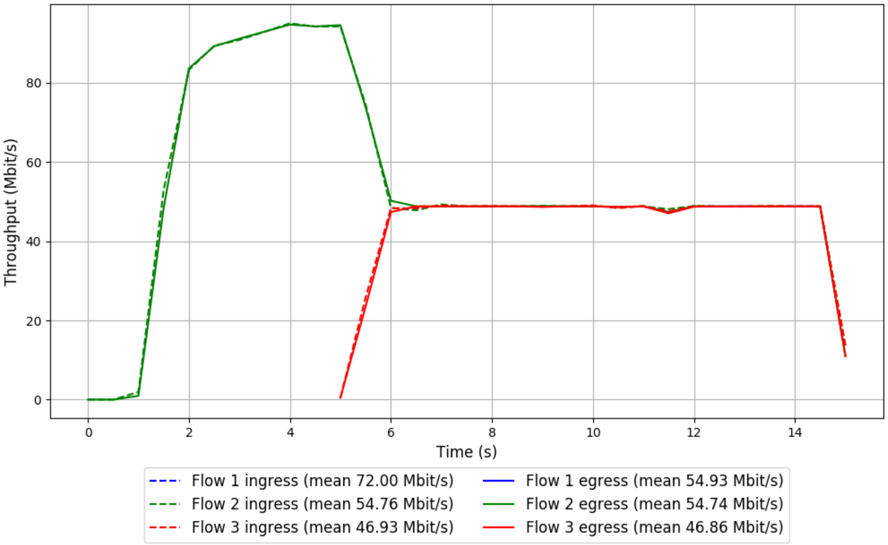
Run 4: Report of Indigo-2-256 — Data Link

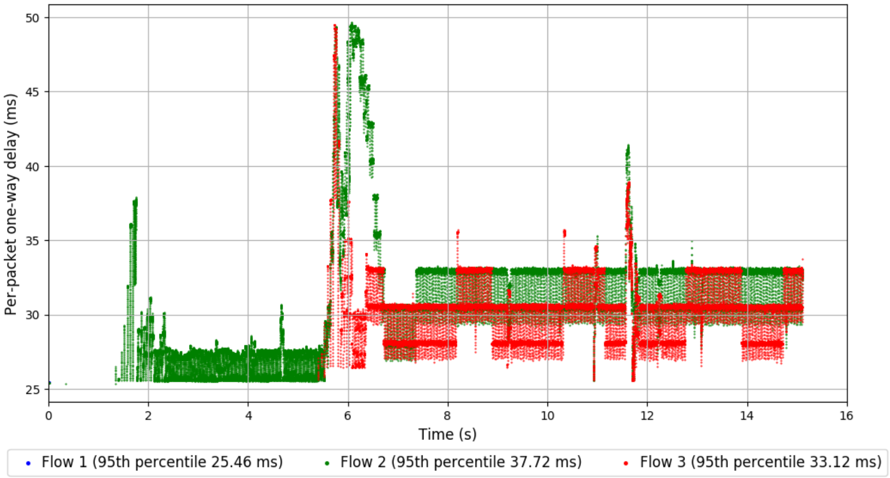




```
Run 5: Statistics of Indigo-2-256

Start at: 2018-01-26 12:19:37
End at: 2018-01-26 12:20:07
Local clock offset: 1.237 ms
Remote clock offset: -1.612 ms
```

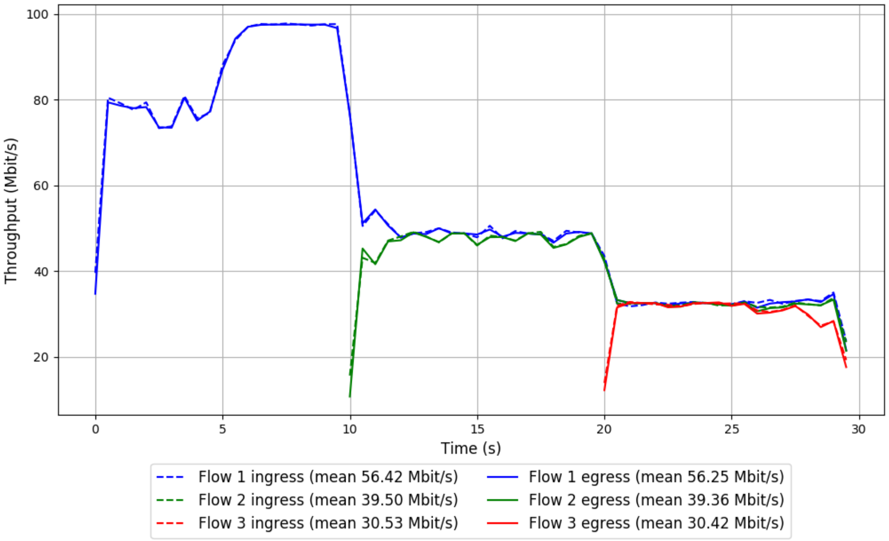
Run 5: Report of Indigo-2-256 — Data Link

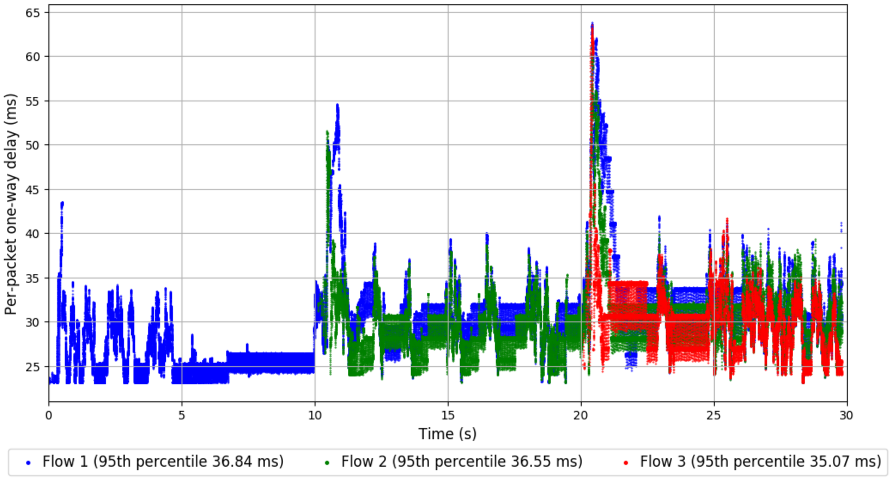




```
Run 6: Statistics of Indigo-2-256

Start at: 2018-01-26 12:41:25
End at: 2018-01-26 12:41:55
Local clock offset: 1.416 ms
Remote clock offset: 1.04 ms

# Below is generated by plot.py at 2018-01-26 18:28:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.20 Mbit/s
95th percentile per-packet one-way delay: 36.491 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 56.25 Mbit/s
95th percentile per-packet one-way delay: 36.842 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 39.36 Mbit/s
95th percentile per-packet one-way delay: 36.552 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 30.42 Mbit/s
95th percentile per-packet one-way delay: 35.066 ms
Loss rate: 0.91%
```

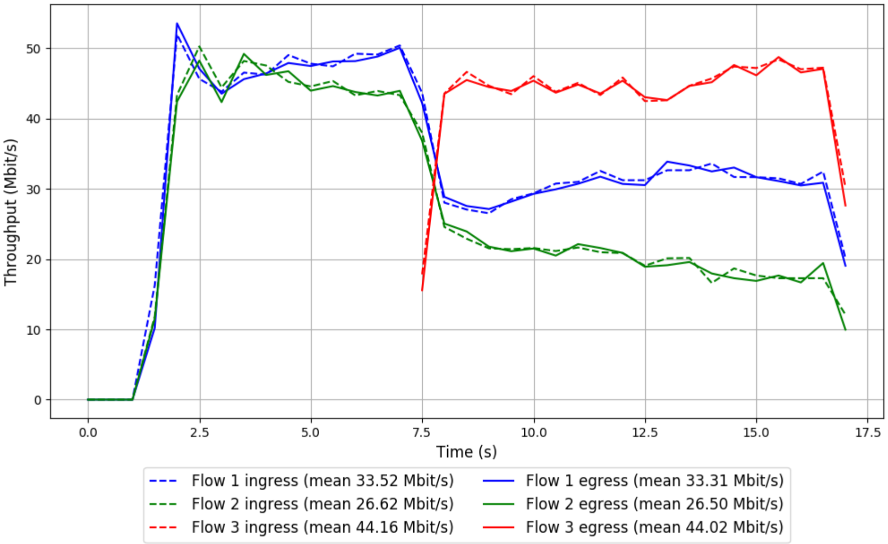
Run 6: Report of Indigo-2-256 — Data Link

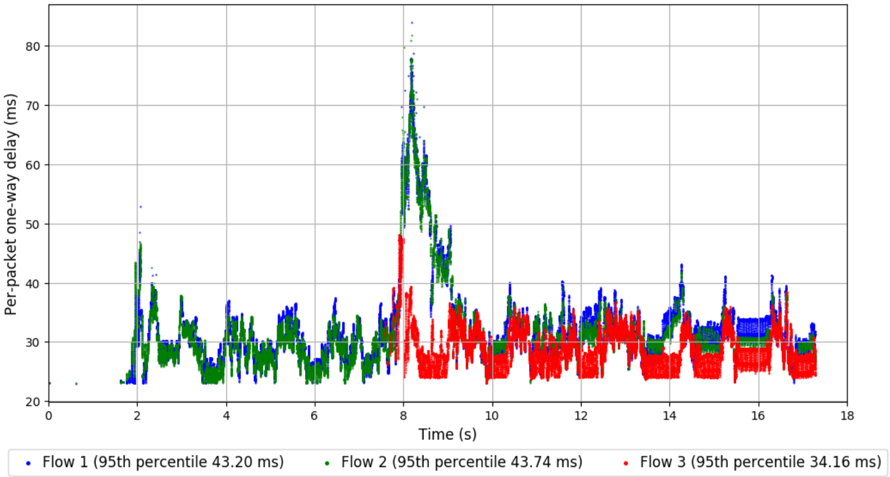




```
Run 7: Statistics of Indigo-2-256

Start at: 2018-01-26 13:03:37
End at: 2018-01-26 13:04:07
Local clock offset: 1.493 ms
Remote clock offset: 1.109 ms
```

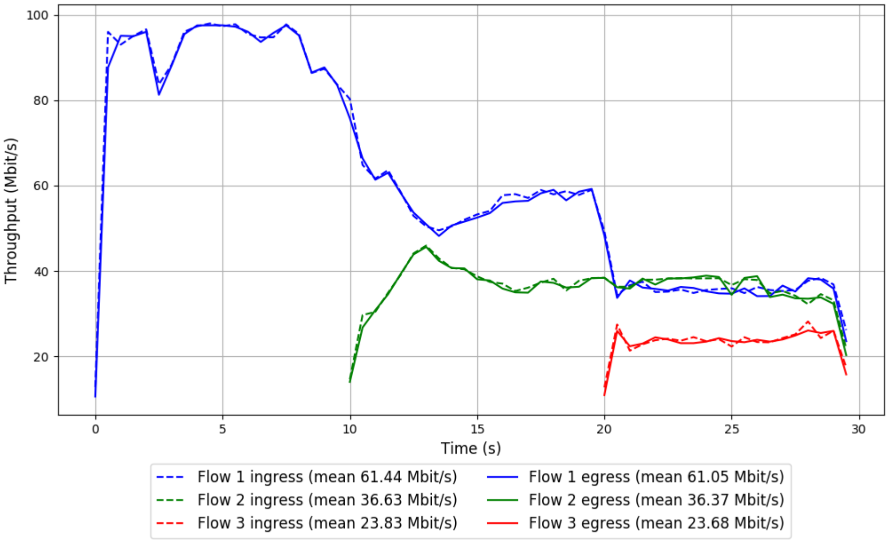
Run 7: Report of Indigo-2-256 — Data Link

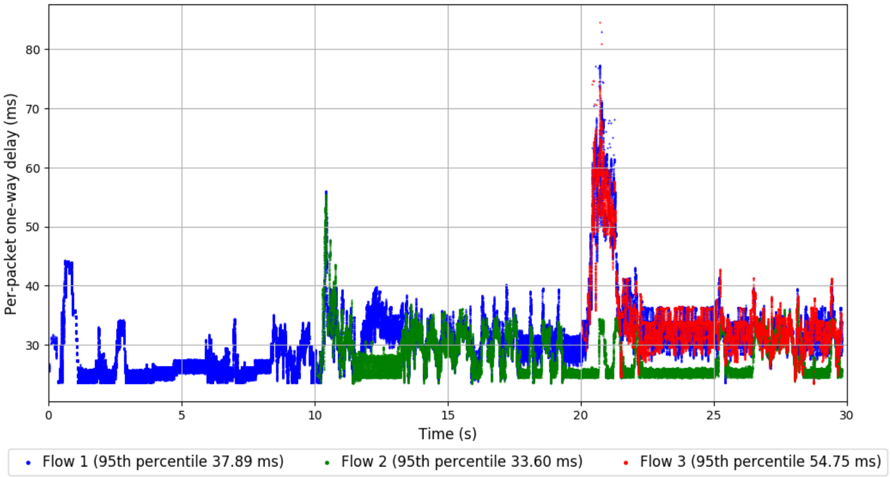




```
Run 8: Statistics of Indigo-2-256

Start at: 2018-01-26 13:25:55
End at: 2018-01-26 13:26:25
Local clock offset: 1.592 ms
Remote clock offset: 0.22 ms

# Below is generated by plot.py at 2018-01-26 18:29:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.89 Mbit/s
95th percentile per-packet one-way delay: 37.450 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 61.05 Mbit/s
95th percentile per-packet one-way delay: 37.892 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 36.37 Mbit/s
95th percentile per-packet one-way delay: 33.603 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 23.68 Mbit/s
95th percentile per-packet one-way delay: 54.750 ms
Loss rate: 1.27%
```

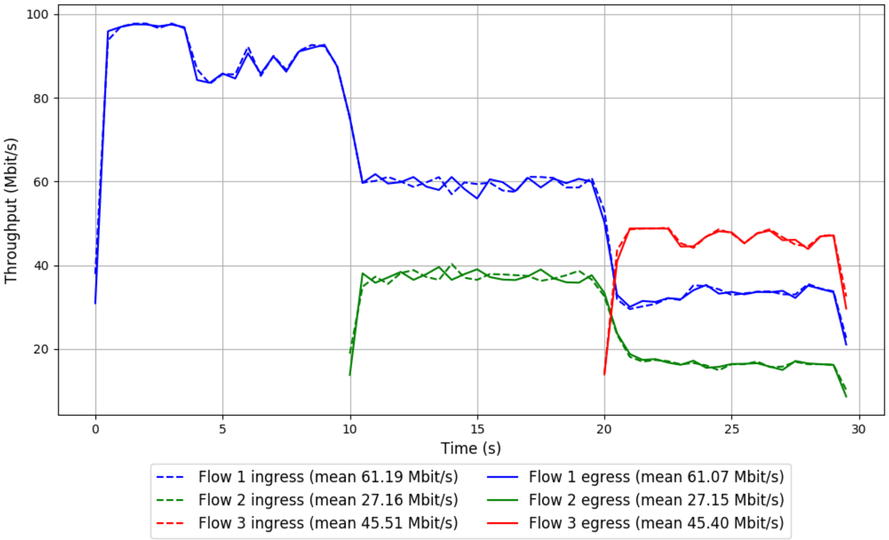
Run 8: Report of Indigo-2-256 — Data Link

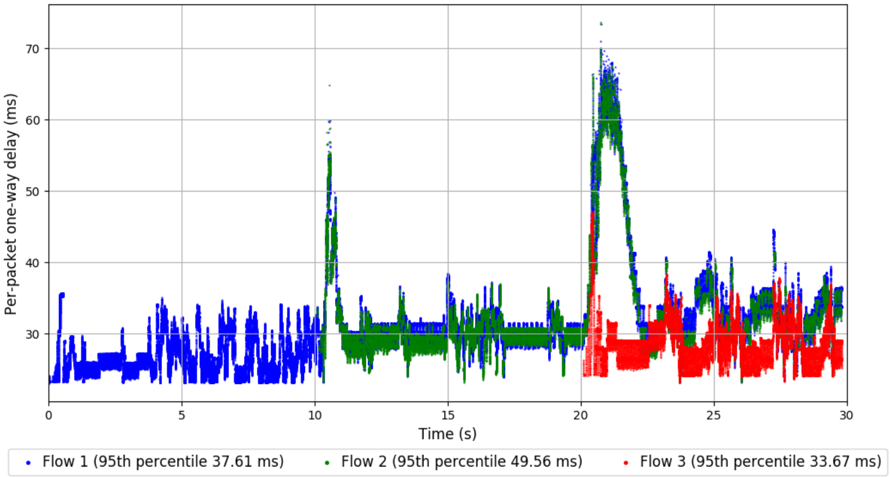




```
Run 9: Statistics of Indigo-2-256

Start at: 2018-01-26 13:48:02
End at: 2018-01-26 13:48:32
Local clock offset: 1.562 ms
Remote clock offset: -0.227 ms

# Below is generated by plot.py at 2018-01-26 18:29:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.83 Mbit/s
95th percentile per-packet one-way delay: 38.318 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 61.07 Mbit/s
95th percentile per-packet one-way delay: 37.611 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 27.15 Mbit/s
95th percentile per-packet one-way delay: 49.562 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 45.40 Mbit/s
95th percentile per-packet one-way delay: 33.675 ms
Loss rate: 0.80%
```

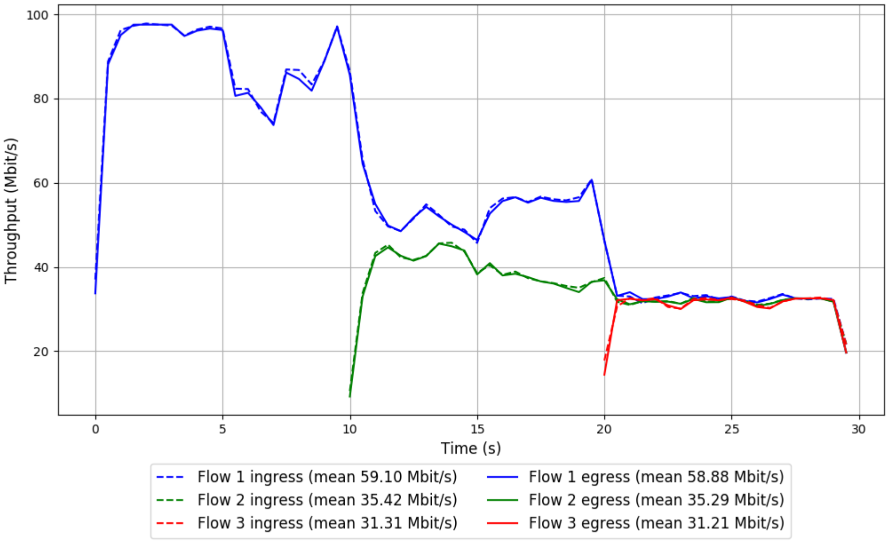
Run 9: Report of Indigo-2-256 — Data Link

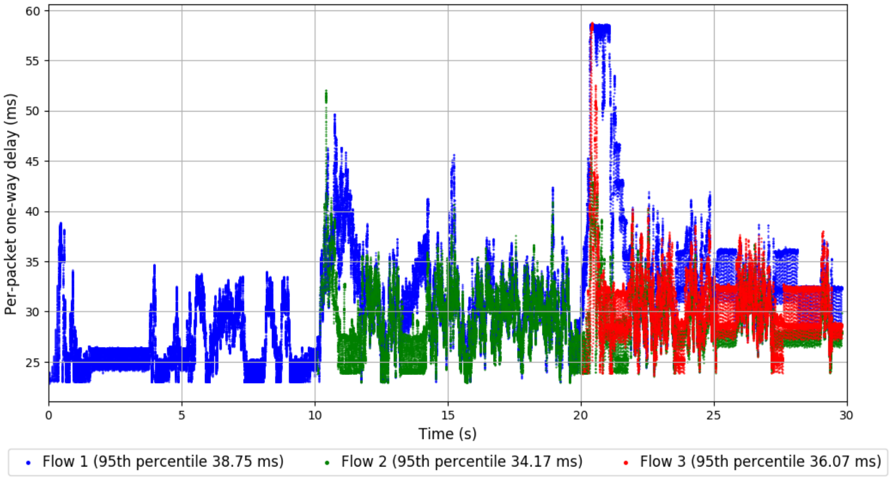




```
Run 10: Statistics of Indigo-2-256

Start at: 2018-01-26 14:10:18
End at: 2018-01-26 14:10:48
Local clock offset: 1.789 ms
Remote clock offset: -0.254 ms

# Below is generated by plot.py at 2018-01-26 18:29:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.43 Mbit/s
95th percentile per-packet one-way delay: 37.262 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 58.88 Mbit/s
95th percentile per-packet one-way delay: 38.752 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 35.29 Mbit/s
95th percentile per-packet one-way delay: 34.169 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 31.21 Mbit/s
95th percentile per-packet one-way delay: 36.070 ms
Loss rate: 0.87%
```

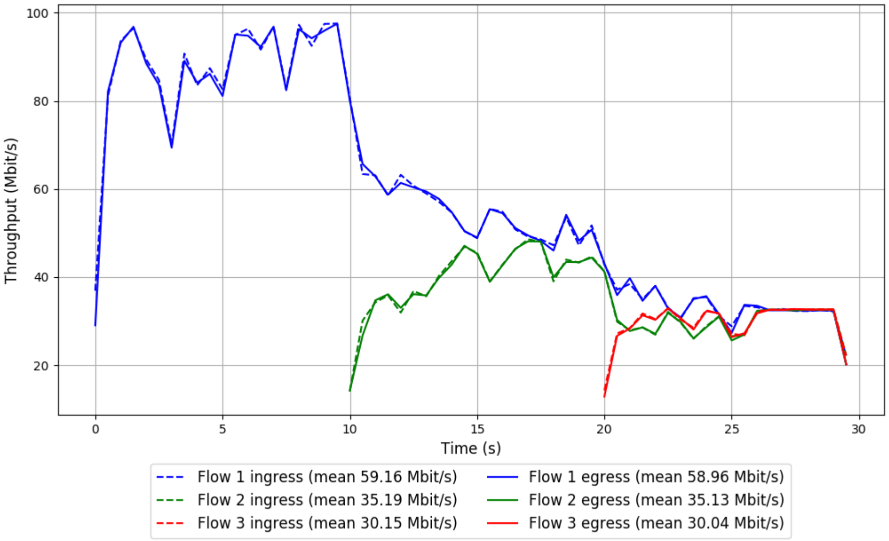
Run 10: Report of Indigo-2-256 — Data Link

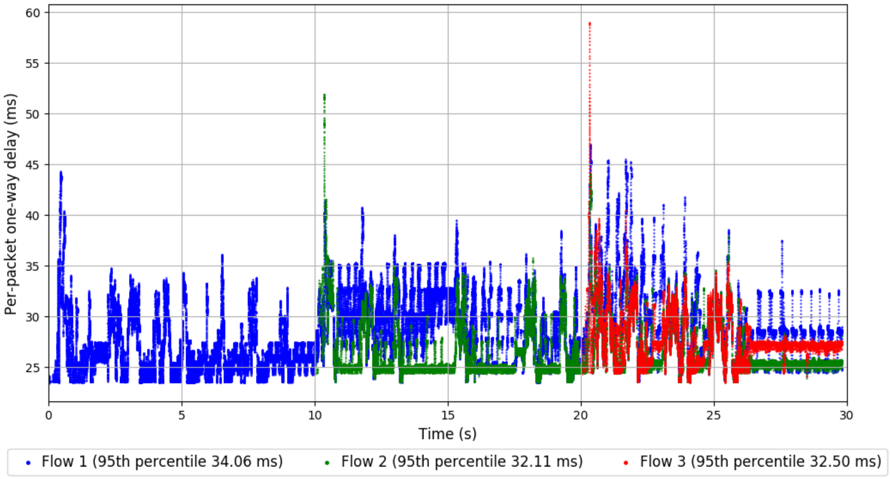




```
Run 1: Statistics of Indigo-1-32

Start at: 2018-01-26 10:35:09
End at: 2018-01-26 10:35:39
Local clock offset: 1.446 ms
Remote clock offset: -0.837 ms

# Below is generated by plot.py at 2018-01-26 18:29:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.11 Mbit/s
95th percentile per-packet one-way delay: 33.345 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 58.96 Mbit/s
95th percentile per-packet one-way delay: 34.060 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 35.13 Mbit/s
95th percentile per-packet one-way delay: 32.109 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 30.04 Mbit/s
95th percentile per-packet one-way delay: 32.501 ms
Loss rate: 0.92%
```

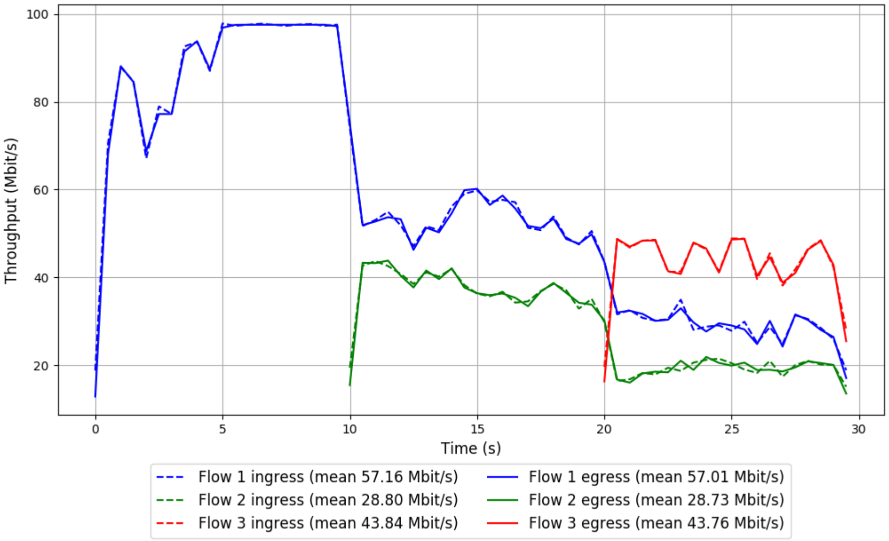
Run 1: Report of Indigo-1-32 — Data Link

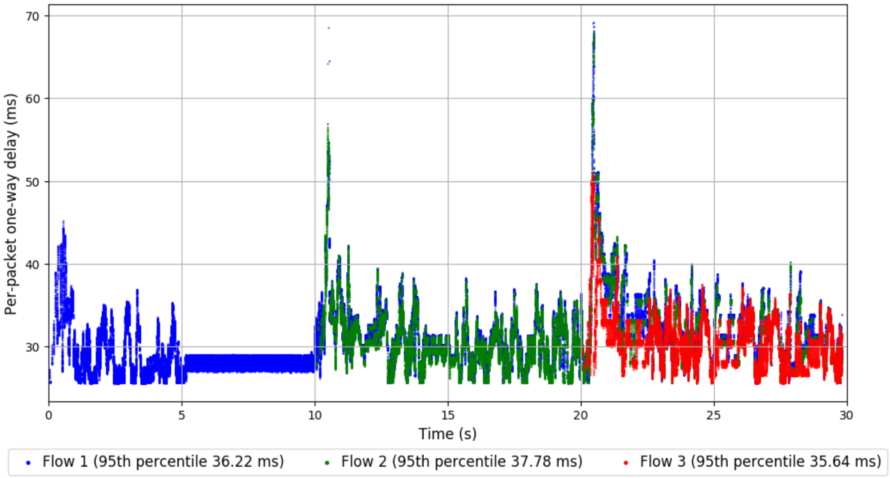




```
Run 2: Statistics of Indigo-1-32

Start at: 2018-01-26 10:57:10
End at: 2018-01-26 10:57:40
Local clock offset: 1.272 ms
Remote clock offset: -2.683 ms

# Below is generated by plot.py at 2018-01-26 18:29:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.34 Mbit/s
95th percentile per-packet one-way delay: 36.366 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 57.01 Mbit/s
95th percentile per-packet one-way delay: 36.220 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 28.73 Mbit/s
95th percentile per-packet one-way delay: 37.782 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 43.76 Mbit/s
95th percentile per-packet one-way delay: 35.643 ms
Loss rate: 0.76%
```

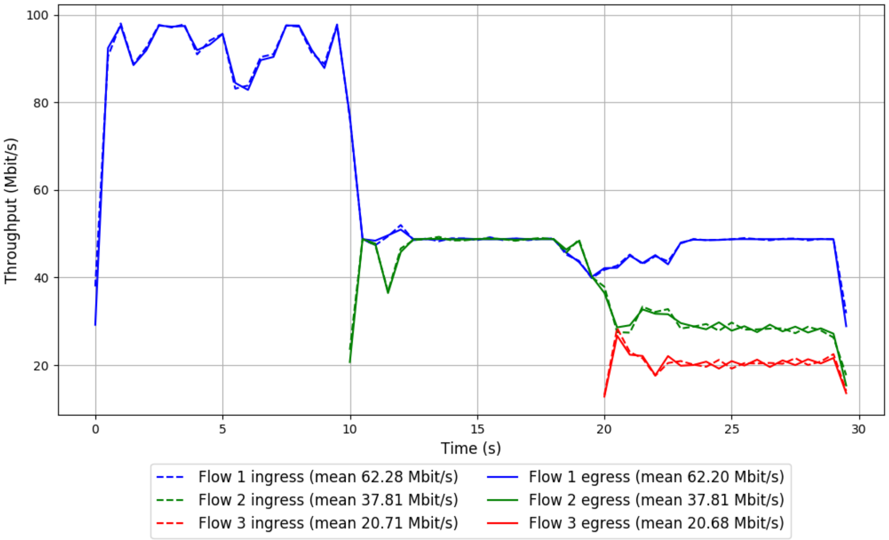
Run 2: Report of Indigo-1-32 — Data Link

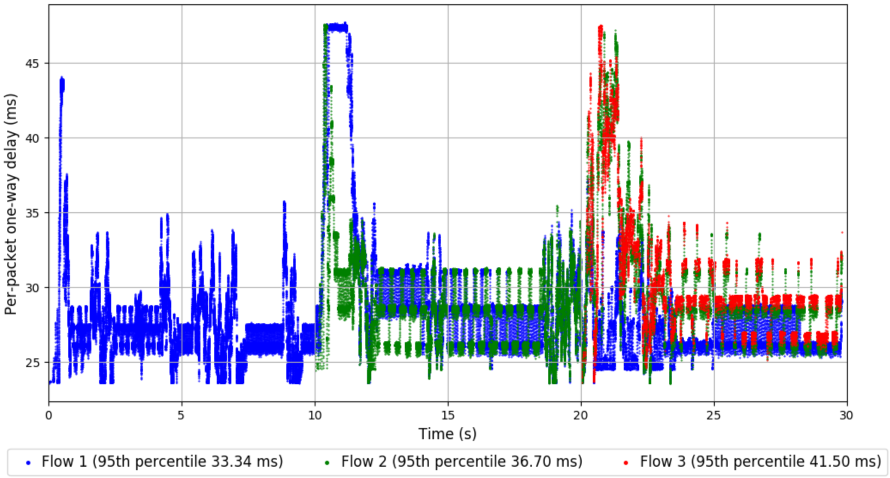




```
Run 3: Statistics of Indigo-1-32

Start at: 2018-01-26 11:19:17
End at: 2018-01-26 11:19:47
Local clock offset: 1.335 ms
Remote clock offset: -0.695 ms

# Below is generated by plot.py at 2018-01-26 18:29:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.05 Mbit/s
95th percentile per-packet one-way delay: 35.318 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 62.20 Mbit/s
95th percentile per-packet one-way delay: 33.337 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 37.81 Mbit/s
95th percentile per-packet one-way delay: 36.699 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 20.68 Mbit/s
95th percentile per-packet one-way delay: 41.502 ms
Loss rate: 0.66%
```

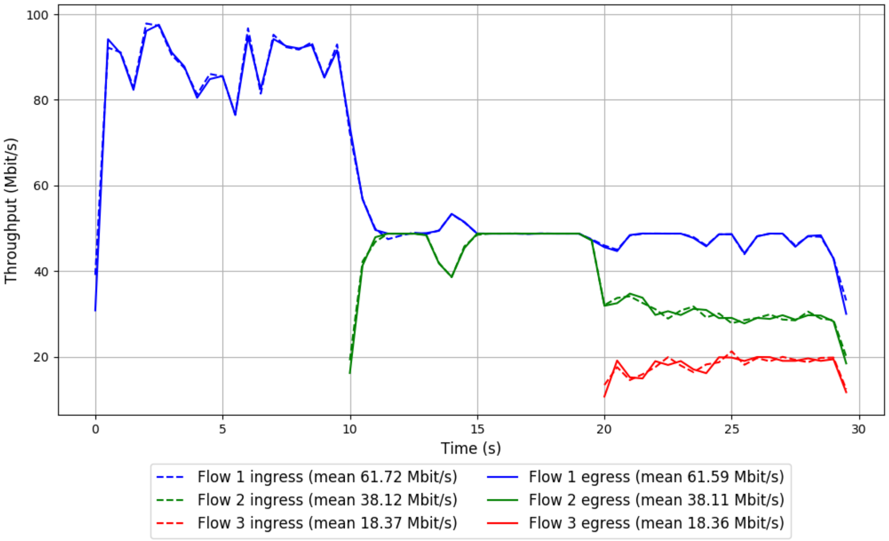
Run 3: Report of Indigo-1-32 — Data Link

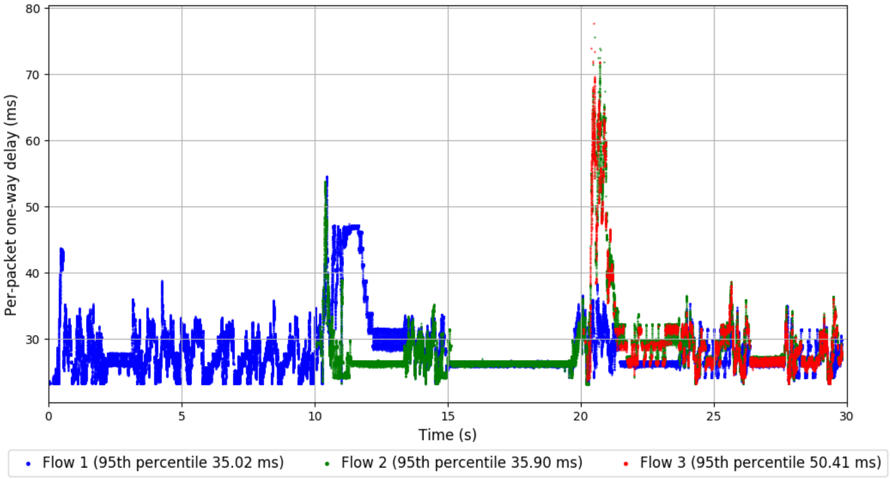




```
Run 4: Statistics of Indigo-1-32

Start at: 2018-01-26 11:41:11
End at: 2018-01-26 11:41:41
Local clock offset: 1.272 ms
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-01-26 18:29:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.84 Mbit/s
95th percentile per-packet one-way delay: 35.962 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 61.59 Mbit/s
95th percentile per-packet one-way delay: 35.021 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 38.11 Mbit/s
95th percentile per-packet one-way delay: 35.897 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 18.36 Mbit/s
95th percentile per-packet one-way delay: 50.409 ms
Loss rate: 0.70%
```

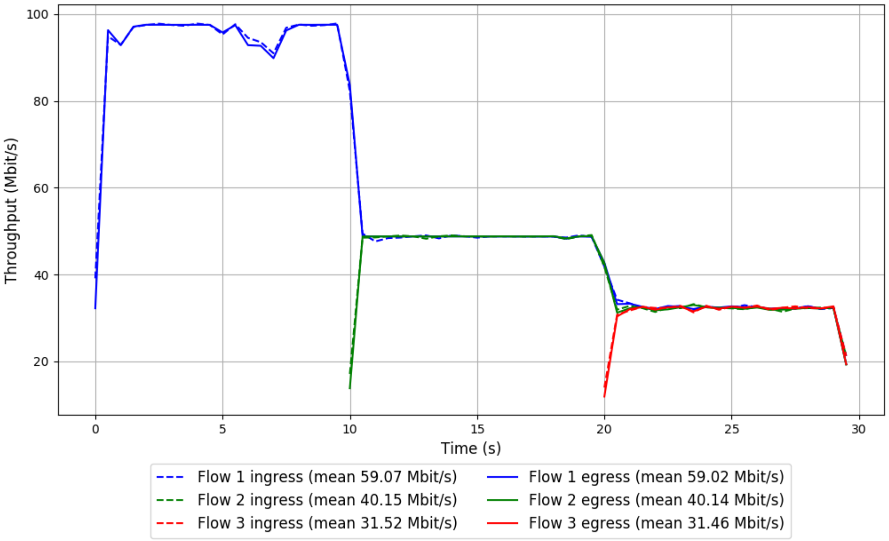
Run 4: Report of Indigo-1-32 — Data Link

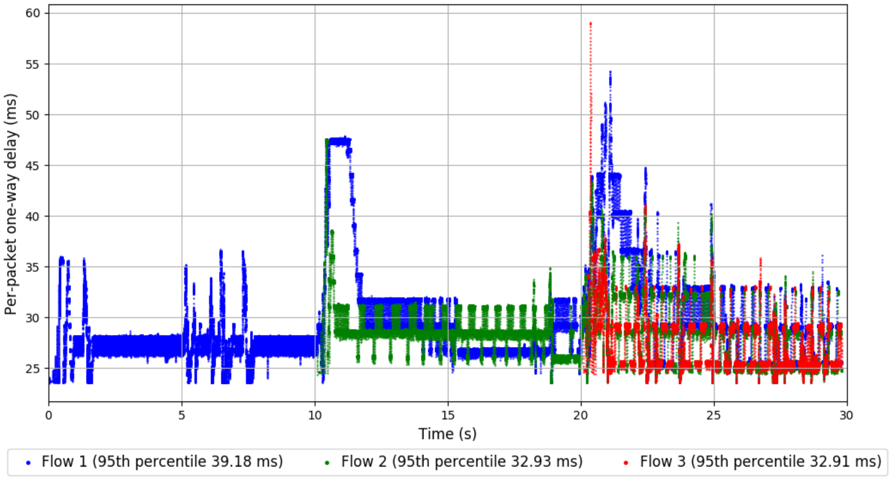




```
Run 5: Statistics of Indigo-1-32

Start at: 2018-01-26 12:03:07
End at: 2018-01-26 12:03:37
Local clock offset: 1.322 ms
Remote clock offset: 0.235 ms

# Below is generated by plot.py at 2018-01-26 18:30:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.83 Mbit/s
95th percentile per-packet one-way delay: 35.894 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 59.02 Mbit/s
95th percentile per-packet one-way delay: 39.176 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 40.14 Mbit/s
95th percentile per-packet one-way delay: 32.928 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 31.46 Mbit/s
95th percentile per-packet one-way delay: 32.915 ms
Loss rate: 0.71%
```

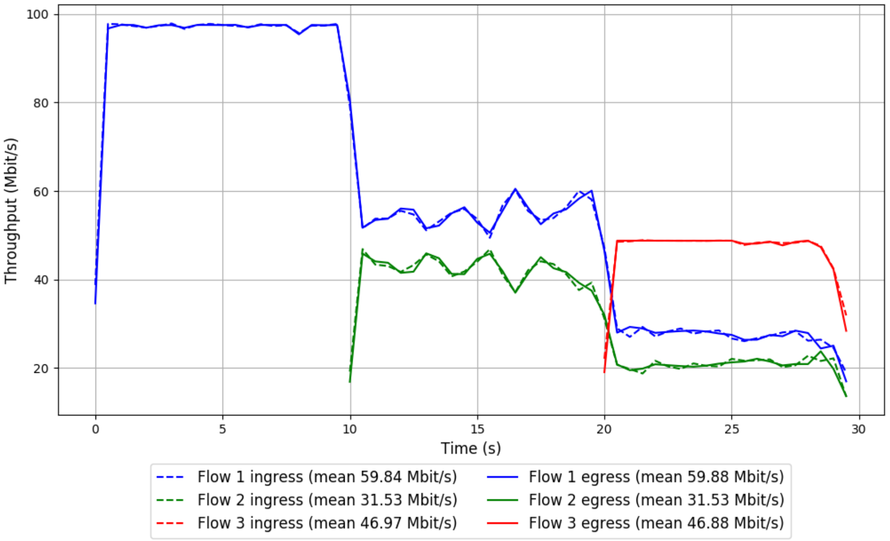
Run 5: Report of Indigo-1-32 — Data Link

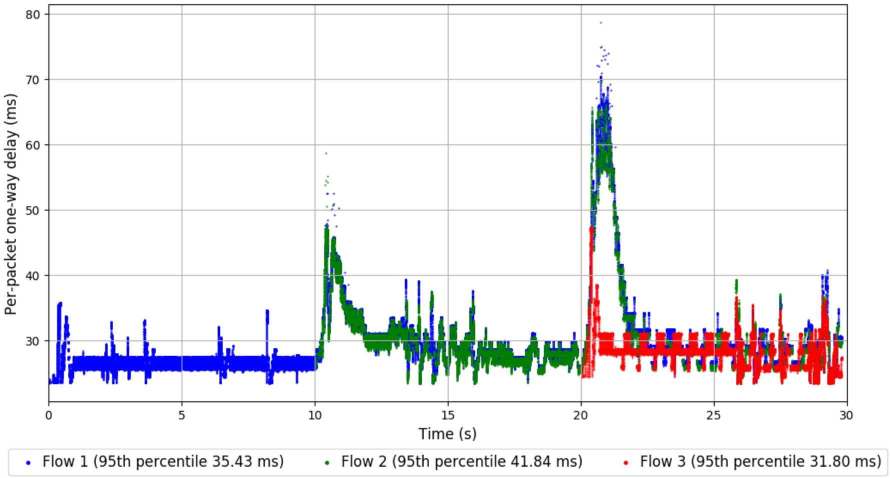




```
Run 6: Statistics of Indigo-1-32

Start at: 2018-01-26 12:24:53
End at: 2018-01-26 12:25:23
Local clock offset: 1.326 ms
Remote clock offset: 0.529 ms

# Below is generated by plot.py at 2018-01-26 18:30:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.13 Mbit/s
95th percentile per-packet one-way delay: 36.253 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 59.88 Mbit/s
95th percentile per-packet one-way delay: 35.433 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 31.53 Mbit/s
95th percentile per-packet one-way delay: 41.842 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 46.88 Mbit/s
95th percentile per-packet one-way delay: 31.799 ms
Loss rate: 0.74%
```

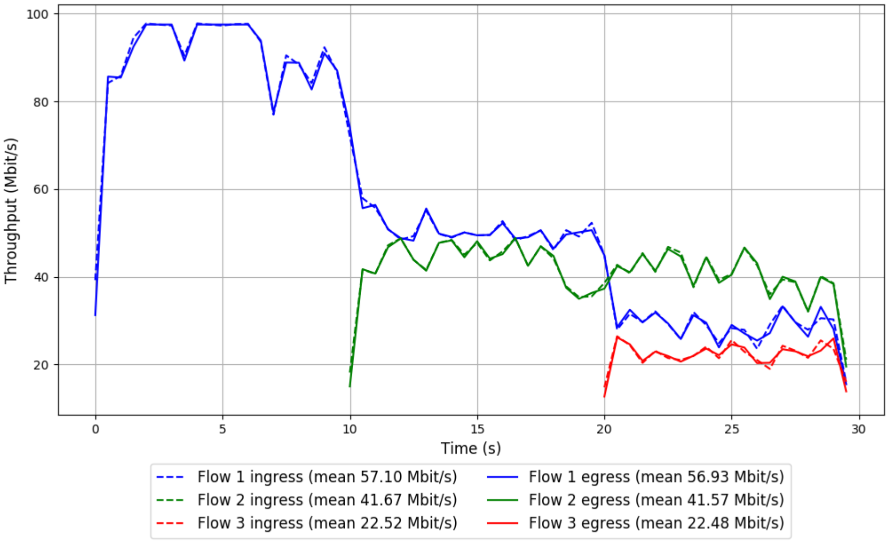
Run 6: Report of Indigo-1-32 — Data Link

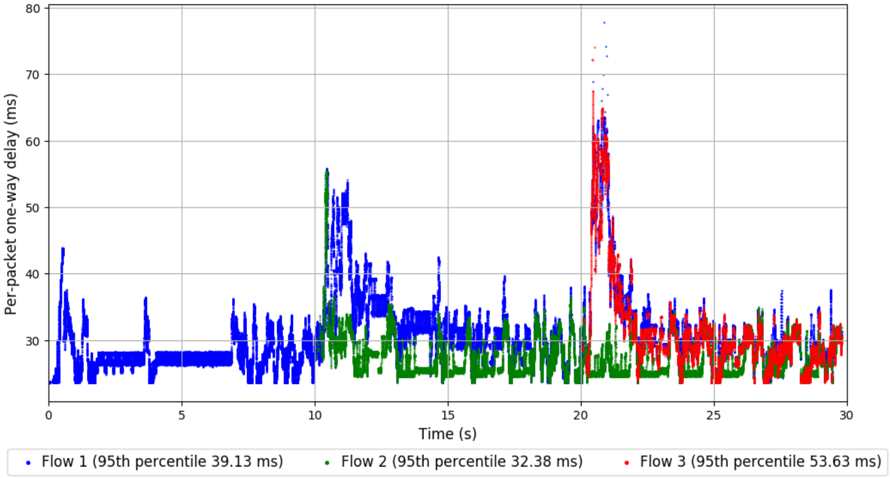




```
Run 7: Statistics of Indigo-1-32

Start at: 2018-01-26 12:46:45
End at: 2018-01-26 12:47:15
Local clock offset: 1.442 ms
Remote clock offset: 0.681 ms

# Below is generated by plot.py at 2018-01-26 18:30:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.82 Mbit/s
95th percentile per-packet one-way delay: 37.544 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 56.93 Mbit/s
95th percentile per-packet one-way delay: 39.128 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 41.57 Mbit/s
95th percentile per-packet one-way delay: 32.382 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 22.48 Mbit/s
95th percentile per-packet one-way delay: 53.631 ms
Loss rate: 0.79%
```

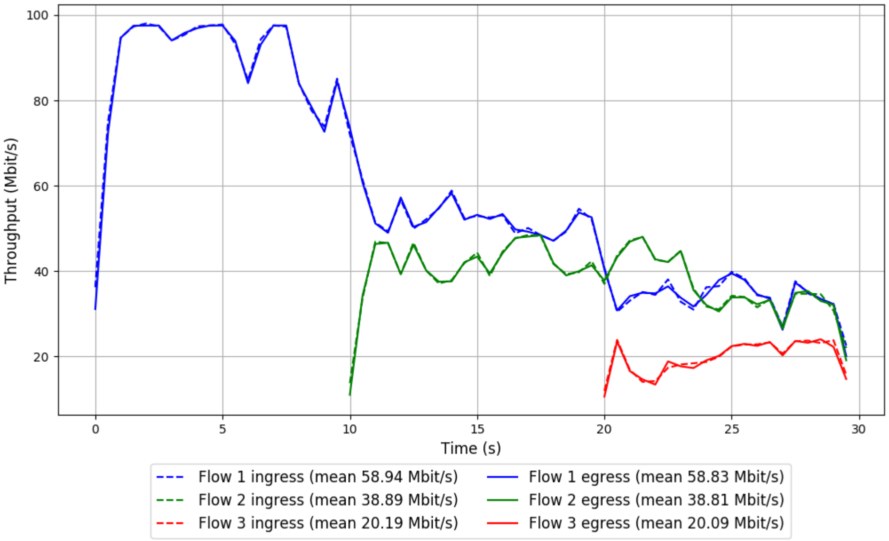
Run 7: Report of Indigo-1-32 — Data Link

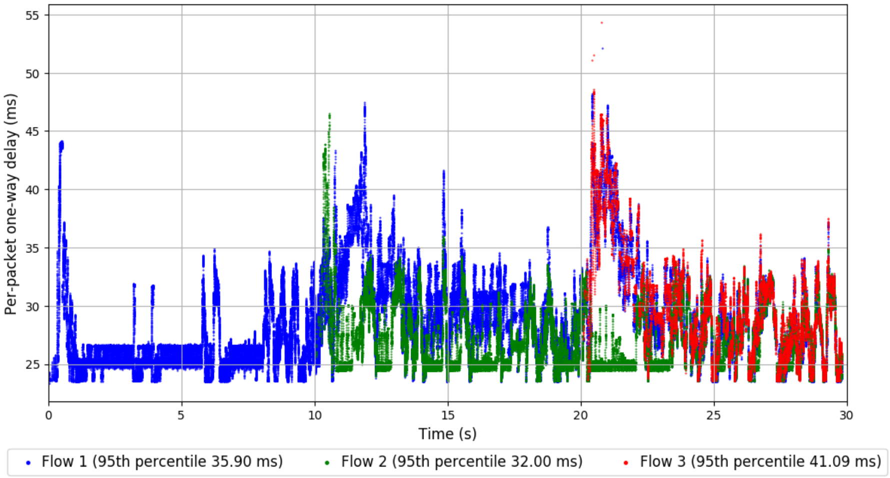




```
Run 8: Statistics of Indigo-1-32

Start at: 2018-01-26 13:08:57
End at: 2018-01-26 13:09:27
Local clock offset: 1.527 ms
Remote clock offset: 0.639 ms

# Below is generated by plot.py at 2018-01-26 18:30:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.09 Mbit/s
95th percentile per-packet one-way delay: 35.154 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 58.83 Mbit/s
95th percentile per-packet one-way delay: 35.903 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 38.81 Mbit/s
95th percentile per-packet one-way delay: 31.999 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 20.09 Mbit/s
95th percentile per-packet one-way delay: 41.091 ms
Loss rate: 1.08%
```

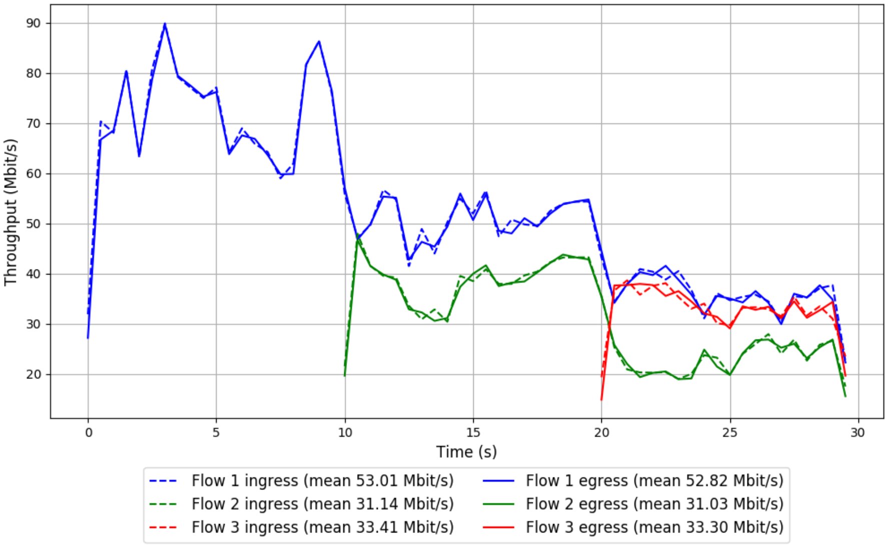
Run 8: Report of Indigo-1-32 — Data Link

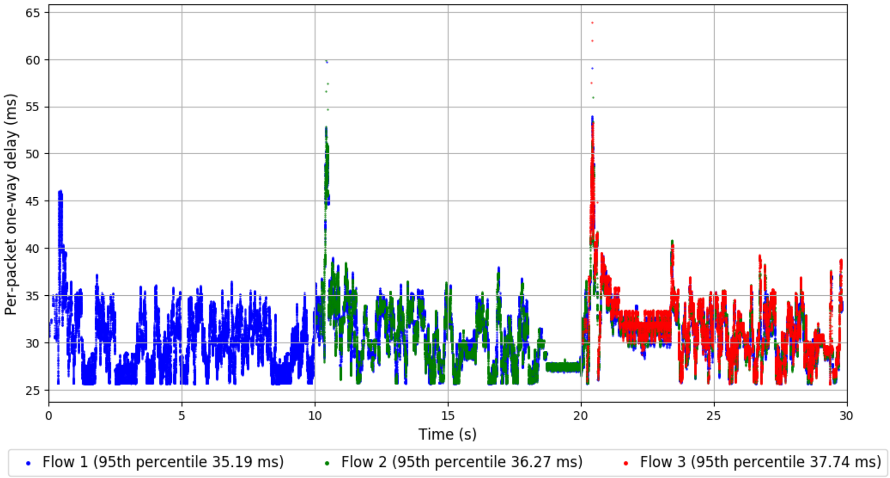




```
Run 9: Statistics of Indigo-1-32

Start at: 2018-01-26 13:31:18
End at: 2018-01-26 13:31:48
Local clock offset: 1.599 ms
Remote clock offset: -1.981 ms

# Below is generated by plot.py at 2018-01-26 18:30:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.26 Mbit/s
95th percentile per-packet one-way delay: 35.768 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 52.82 Mbit/s
95th percentile per-packet one-way delay: 35.192 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 31.03 Mbit/s
95th percentile per-packet one-way delay: 36.270 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 33.30 Mbit/s
95th percentile per-packet one-way delay: 37.741 ms
Loss rate: 0.93%
```

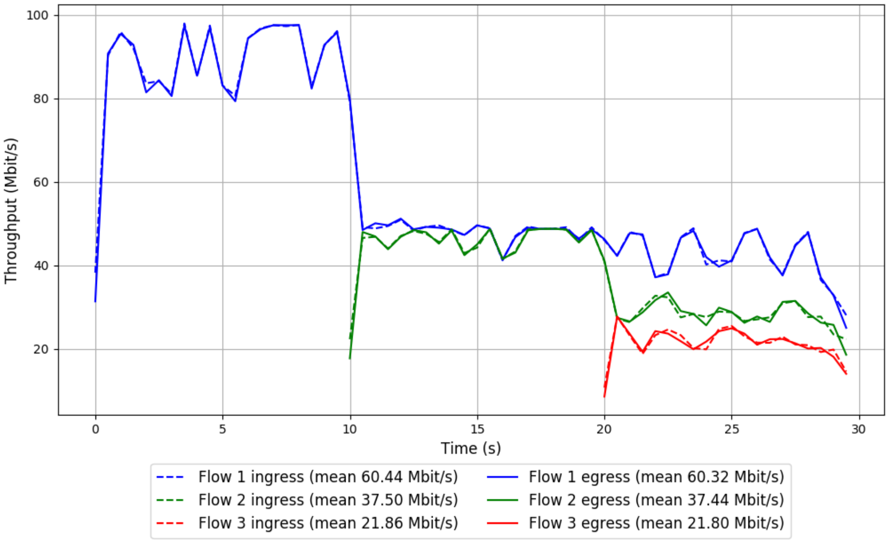
Run 9: Report of Indigo-1-32 — Data Link

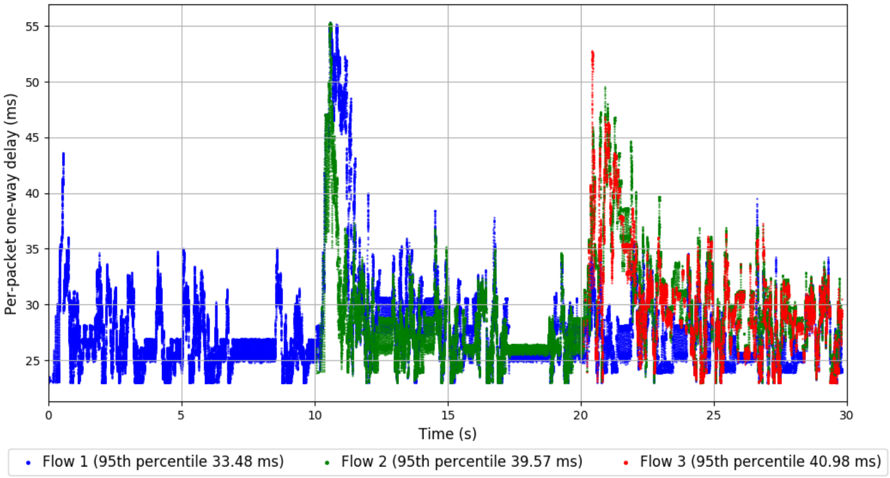




```
Run 10: Statistics of Indigo-1-32

Start at: 2018-01-26 13:53:23
End at: 2018-01-26 13:53:53
Local clock offset: 1.598 ms
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2018-01-26 18:31:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.20 Mbit/s
95th percentile per-packet one-way delay: 36.065 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 60.32 Mbit/s
95th percentile per-packet one-way delay: 33.480 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 37.44 Mbit/s
95th percentile per-packet one-way delay: 39.566 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 21.80 Mbit/s
95th percentile per-packet one-way delay: 40.975 ms
Loss rate: 0.86%
```

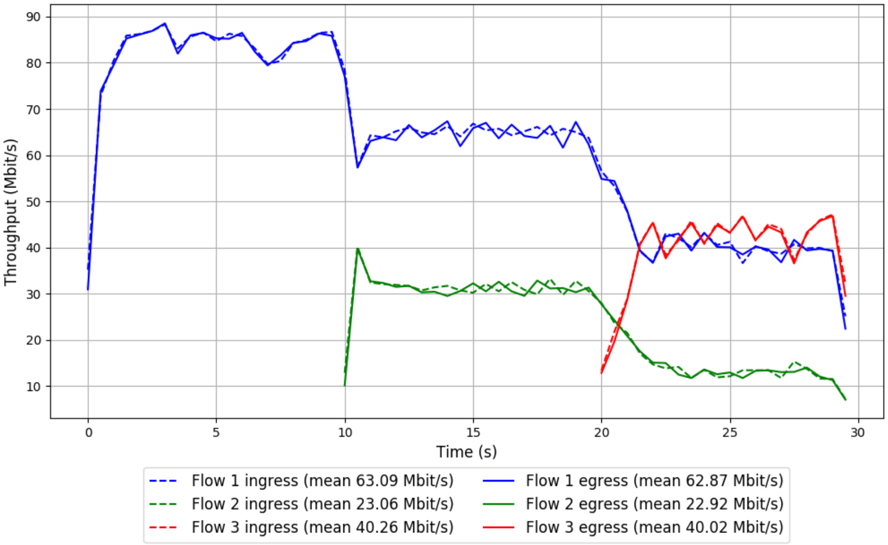
Run 10: Report of Indigo-1-32 — Data Link

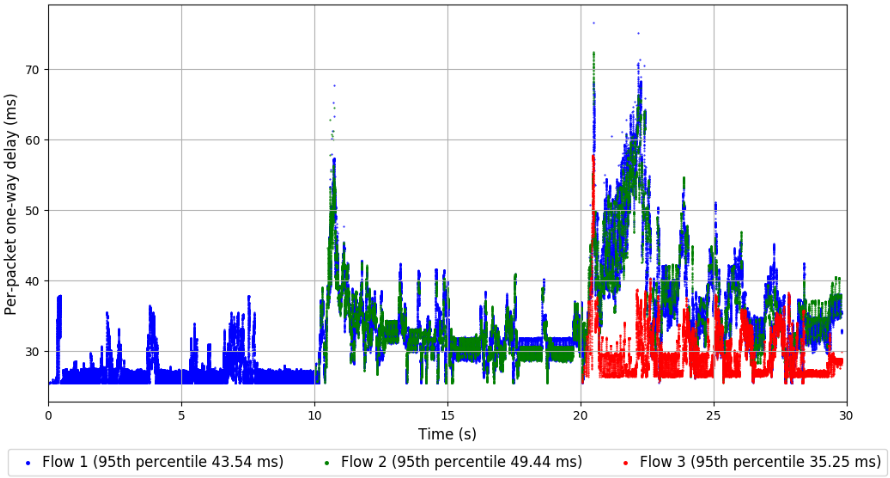




```
Run 1: Statistics of Indigo-1-128

Start at: 2018-01-26 10:37:51
End at: 2018-01-26 10:38:21
Local clock offset: 1.321 ms
Remote clock offset: -2.879 ms

# Below is generated by plot.py at 2018-01-26 18:31:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.14 Mbit/s
95th percentile per-packet one-way delay: 43.929 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 62.87 Mbit/s
95th percentile per-packet one-way delay: 43.540 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 22.92 Mbit/s
95th percentile per-packet one-way delay: 49.436 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 40.02 Mbit/s
95th percentile per-packet one-way delay: 35.246 ms
Loss rate: 1.13%
```

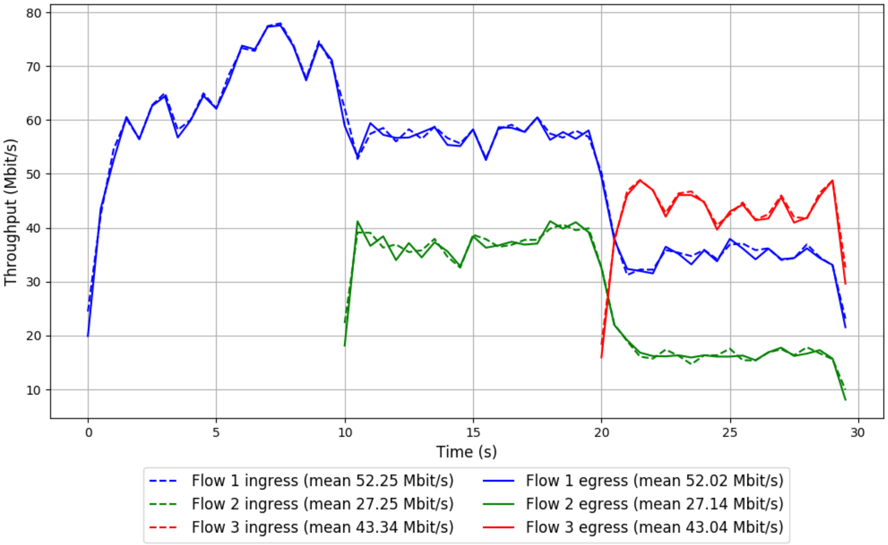
Run 1: Report of Indigo-1-128 — Data Link

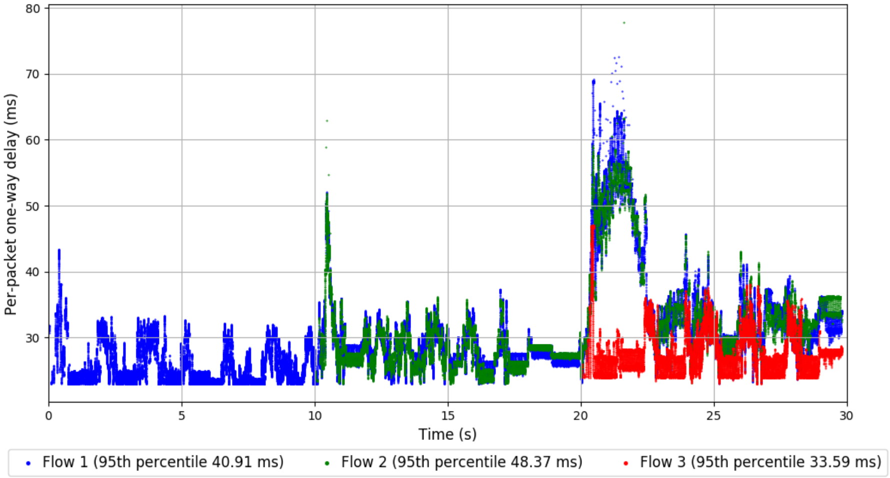




```
Run 2: Statistics of Indigo-1-128

Start at: 2018-01-26 10:59:53
End at: 2018-01-26 11:00:23
Local clock offset: 1.254 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2018-01-26 18:31:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.11 Mbit/s
95th percentile per-packet one-way delay: 40.896 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 52.02 Mbit/s
95th percentile per-packet one-way delay: 40.913 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 27.14 Mbit/s
95th percentile per-packet one-way delay: 48.370 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 43.04 Mbit/s
95th percentile per-packet one-way delay: 33.594 ms
Loss rate: 1.25%
```

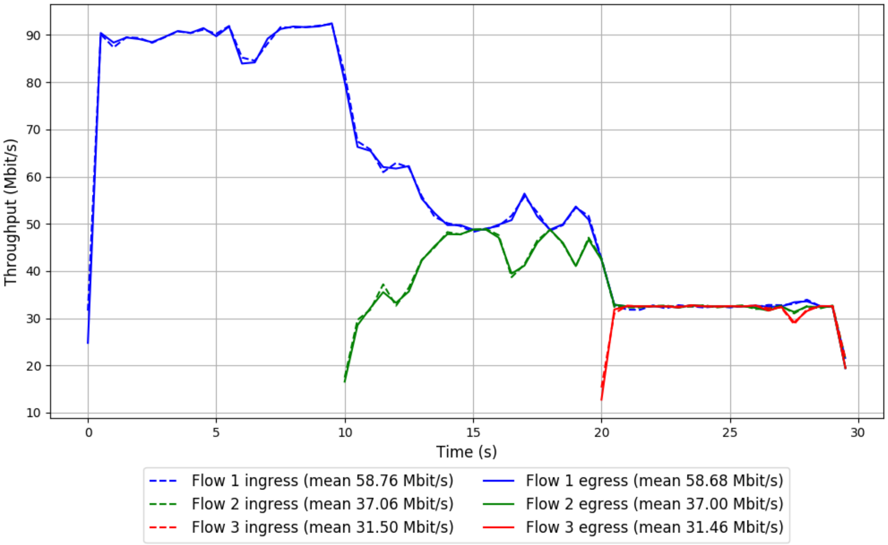
Run 2: Report of Indigo-1-128 — Data Link

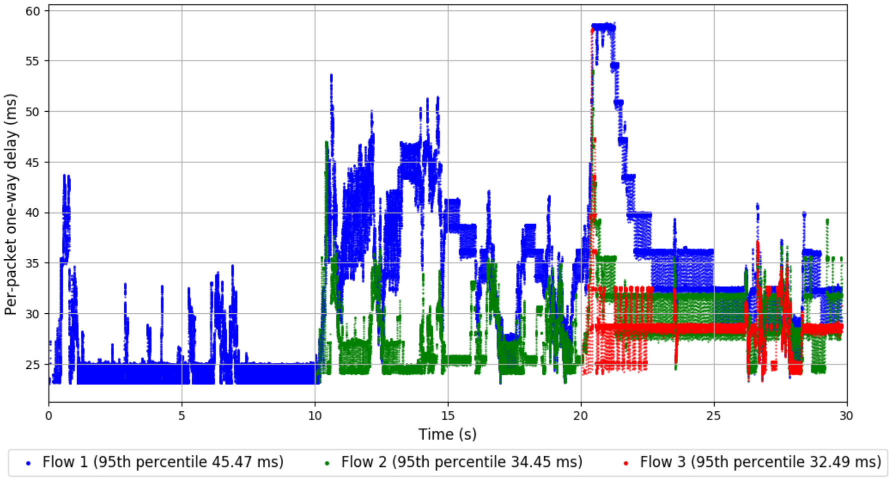




```
Run 3: Statistics of Indigo-1-128

Start at: 2018-01-26 11:22:01
End at: 2018-01-26 11:22:31
Local clock offset: 1.229 ms
Remote clock offset: -0.245 ms

# Below is generated by plot.py at 2018-01-26 18:31:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.51 Mbit/s
95th percentile per-packet one-way delay: 43.334 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 58.68 Mbit/s
95th percentile per-packet one-way delay: 45.469 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 37.00 Mbit/s
95th percentile per-packet one-way delay: 34.453 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 31.46 Mbit/s
95th percentile per-packet one-way delay: 32.490 ms
Loss rate: 0.66%
```

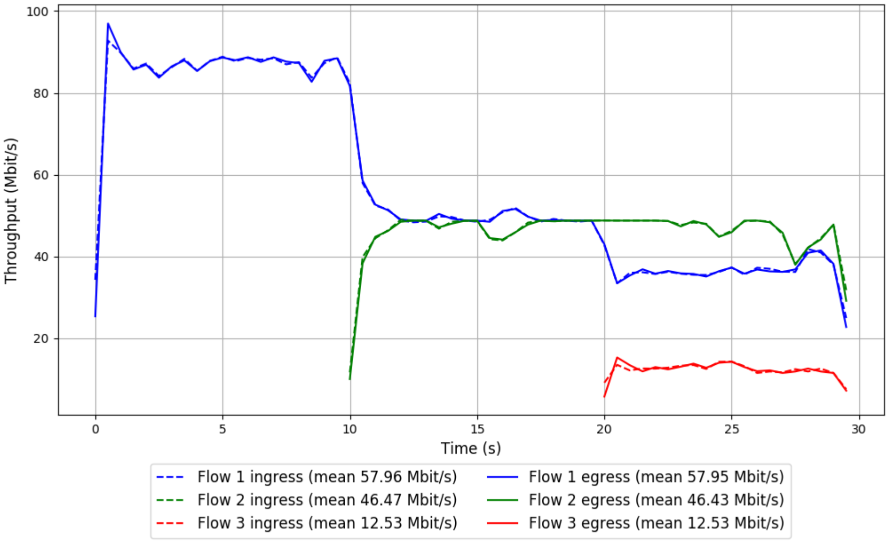
Run 3: Report of Indigo-1-128 — Data Link

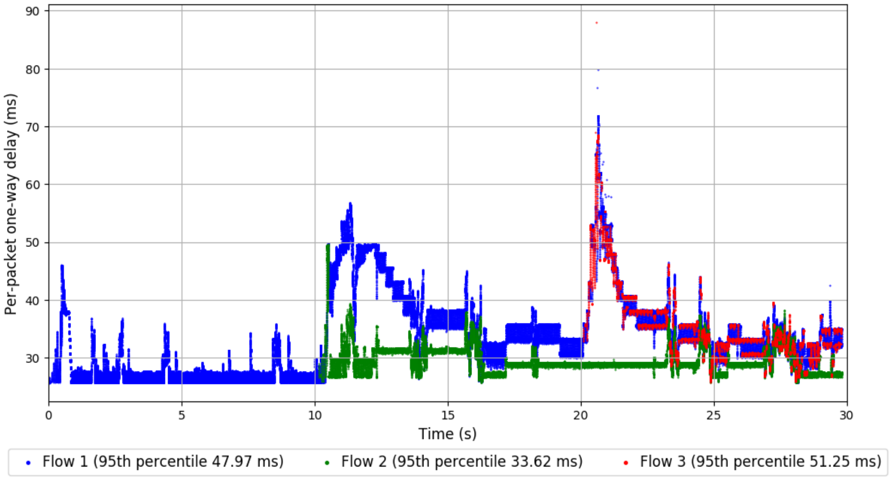




```
Run 4: Statistics of Indigo-1-128

Start at: 2018-01-26 11:43:54
End at: 2018-01-26 11:44:24
Local clock offset: 1.327 ms
Remote clock offset: -2.47 ms

# Below is generated by plot.py at 2018-01-26 18:32:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.67 Mbit/s
95th percentile per-packet one-way delay: 45.418 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 57.95 Mbit/s
95th percentile per-packet one-way delay: 47.973 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 46.43 Mbit/s
95th percentile per-packet one-way delay: 33.620 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 12.53 Mbit/s
95th percentile per-packet one-way delay: 51.249 ms
Loss rate: 0.63%
```

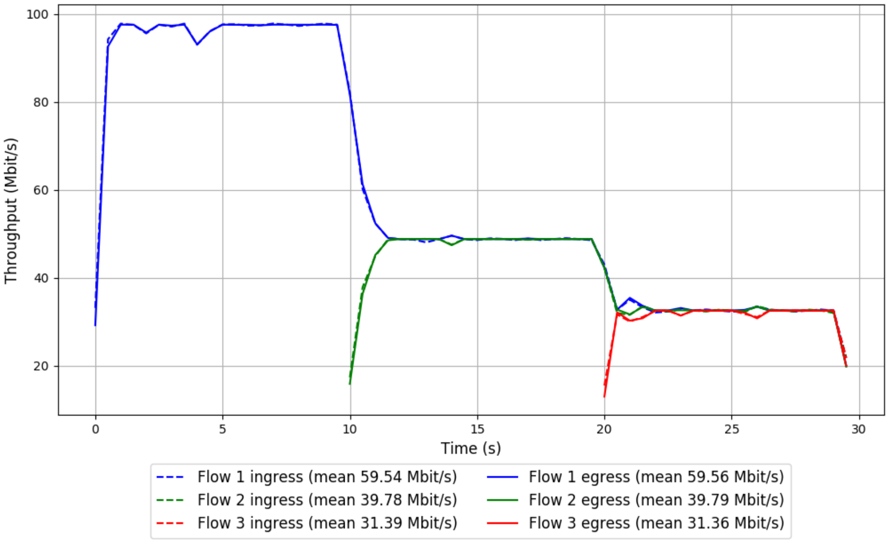
Run 4: Report of Indigo-1-128 — Data Link

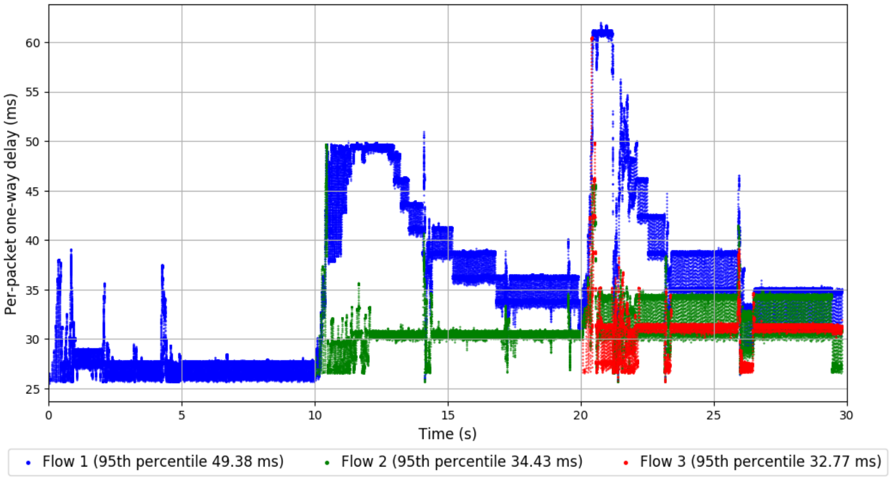




```
Run 5: Statistics of Indigo-1-128

Start at: 2018-01-26 12:05:50
End at: 2018-01-26 12:06:20
Local clock offset: 1.34 ms
Remote clock offset: -1.818 ms

# Below is generated by plot.py at 2018-01-26 18:32:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.22 Mbit/s
95th percentile per-packet one-way delay: 48.122 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 59.56 Mbit/s
95th percentile per-packet one-way delay: 49.379 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 39.79 Mbit/s
95th percentile per-packet one-way delay: 34.427 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 31.36 Mbit/s
95th percentile per-packet one-way delay: 32.773 ms
Loss rate: 0.62%
```

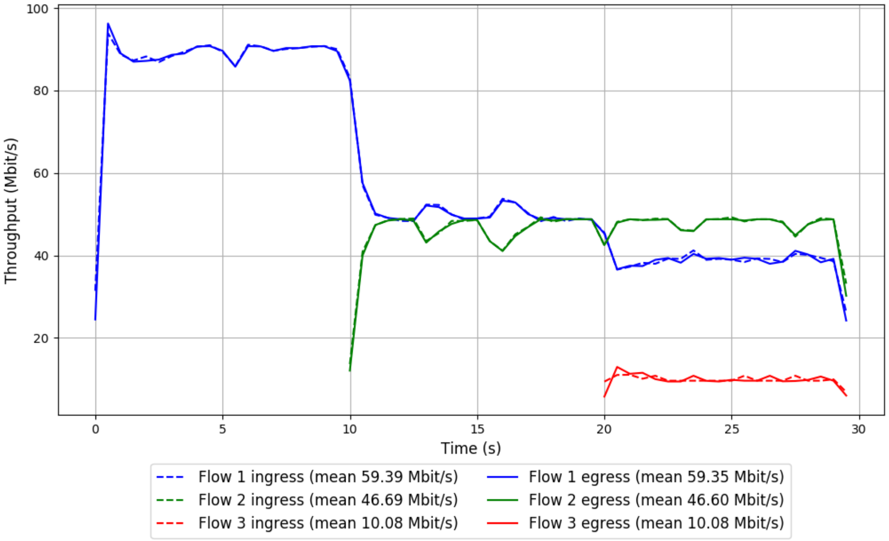
Run 5: Report of Indigo-1-128 — Data Link

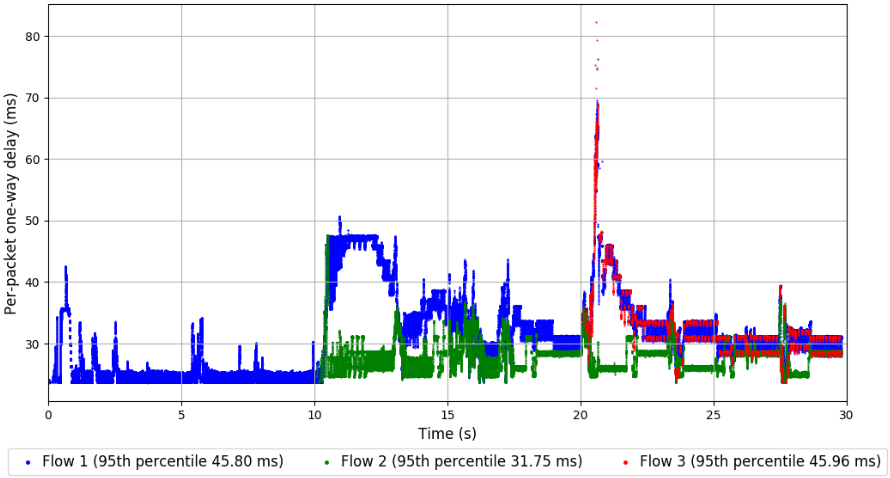




```
Run 6: Statistics of Indigo-1-128

Start at: 2018-01-26 12:27:35
End at: 2018-01-26 12:28:05
Local clock offset: 1.326 ms
Remote clock offset: 0.416 ms

# Below is generated by plot.py at 2018-01-26 18:32:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.44 Mbit/s
95th percentile per-packet one-way delay: 43.052 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 59.35 Mbit/s
95th percentile per-packet one-way delay: 45.801 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 46.60 Mbit/s
95th percentile per-packet one-way delay: 31.751 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 10.08 Mbit/s
95th percentile per-packet one-way delay: 45.958 ms
Loss rate: 0.72%
```

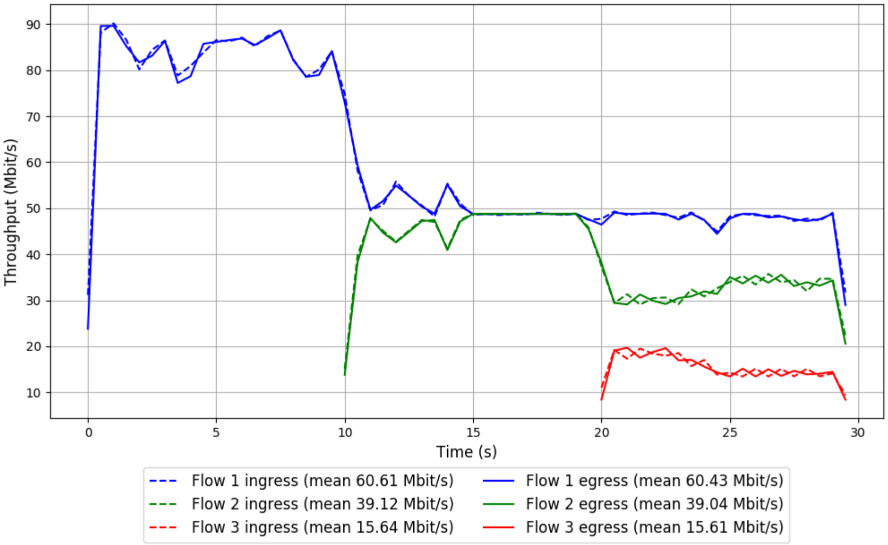
Run 6: Report of Indigo-1-128 — Data Link

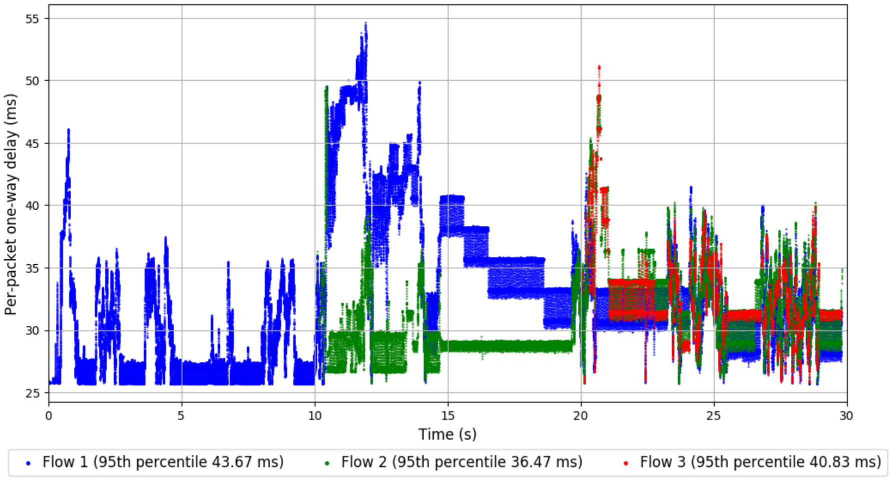




```
Run 7: Statistics of Indigo-1-128

Start at: 2018-01-26 12:49:28
End at: 2018-01-26 12:49:58
Local clock offset: 1.431 ms
Remote clock offset: -1.451 ms

# Below is generated by plot.py at 2018-01-26 18:32:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.35 Mbit/s
95th percentile per-packet one-way delay: 42.245 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 60.43 Mbit/s
95th percentile per-packet one-way delay: 43.668 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 39.04 Mbit/s
95th percentile per-packet one-way delay: 36.471 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 15.61 Mbit/s
95th percentile per-packet one-way delay: 40.834 ms
Loss rate: 0.79%
```

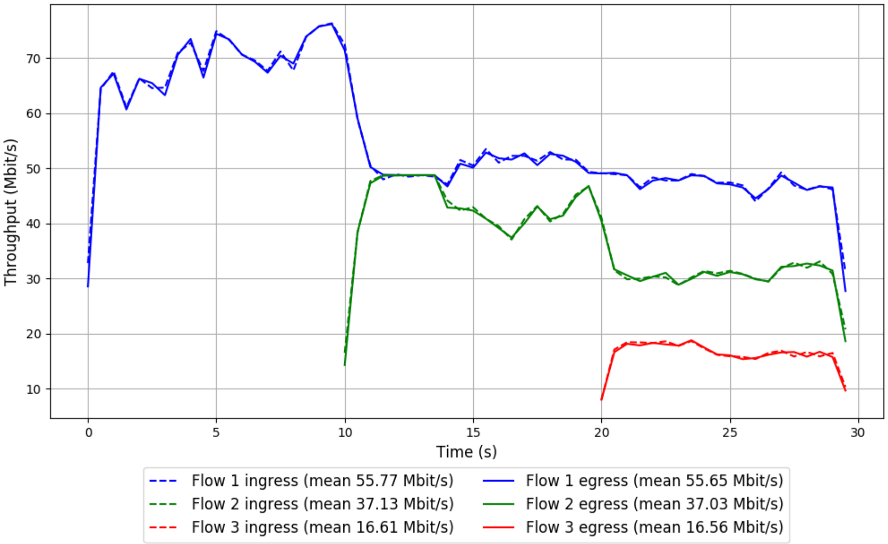
Run 7: Report of Indigo-1-128 — Data Link

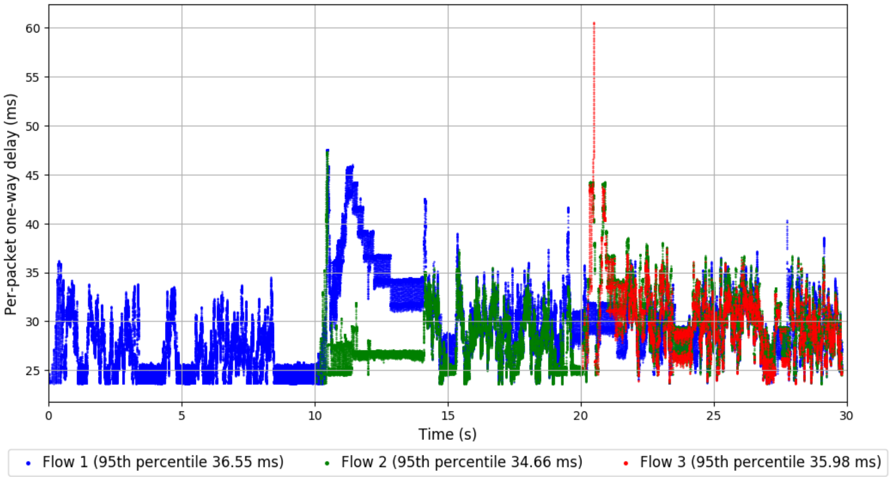




```
Run 8: Statistics of Indigo-1-128

Start at: 2018-01-26 13:11:45
End at: 2018-01-26 13:12:15
Local clock offset: 1.5 ms
Remote clock offset: 0.501 ms

# Below is generated by plot.py at 2018-01-26 18:32:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.59 Mbit/s
95th percentile per-packet one-way delay: 35.867 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 55.65 Mbit/s
95th percentile per-packet one-way delay: 36.548 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 37.03 Mbit/s
95th percentile per-packet one-way delay: 34.655 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 16.56 Mbit/s
95th percentile per-packet one-way delay: 35.979 ms
Loss rate: 0.83%
```

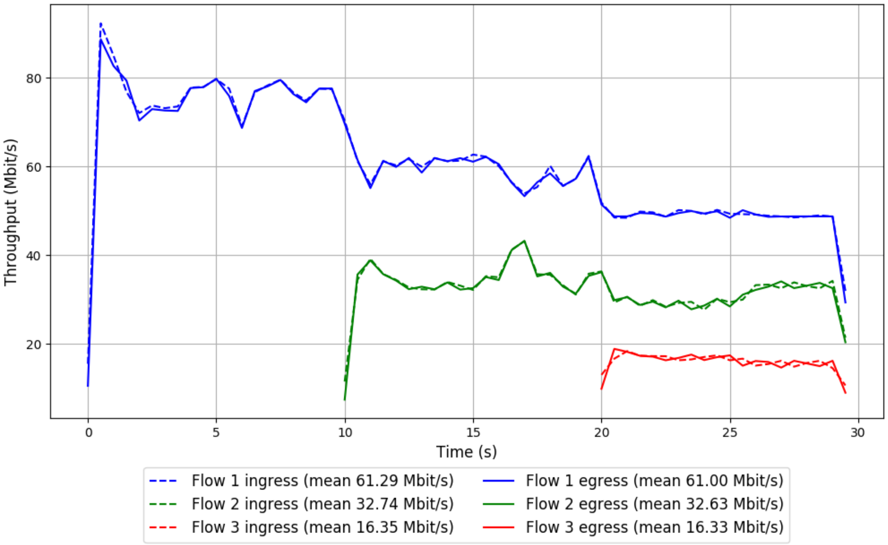
Run 8: Report of Indigo-1-128 — Data Link

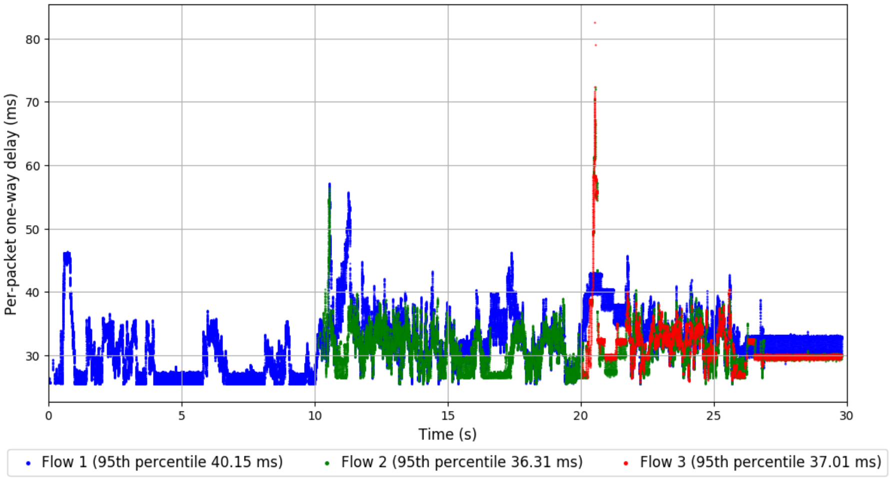




```
Run 9: Statistics of Indigo-1-128

Start at: 2018-01-26 13:34:06
End at: 2018-01-26 13:34:36
Local clock offset: 1.522 ms
Remote clock offset: -2.016 ms

# Below is generated by plot.py at 2018-01-26 18:32:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.88 Mbit/s
95th percentile per-packet one-way delay: 38.988 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 61.00 Mbit/s
95th percentile per-packet one-way delay: 40.152 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 32.63 Mbit/s
95th percentile per-packet one-way delay: 36.308 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 16.33 Mbit/s
95th percentile per-packet one-way delay: 37.009 ms
Loss rate: 0.68%
```

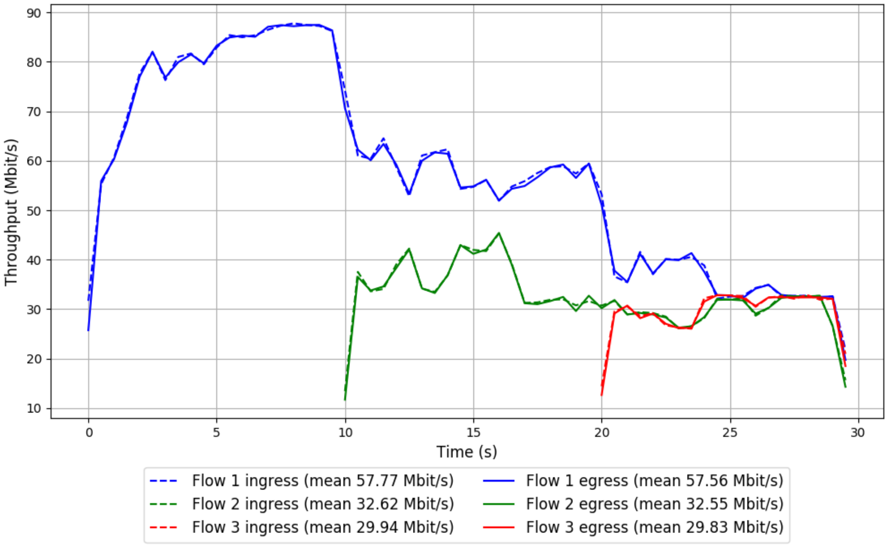
Run 9: Report of Indigo-1-128 — Data Link



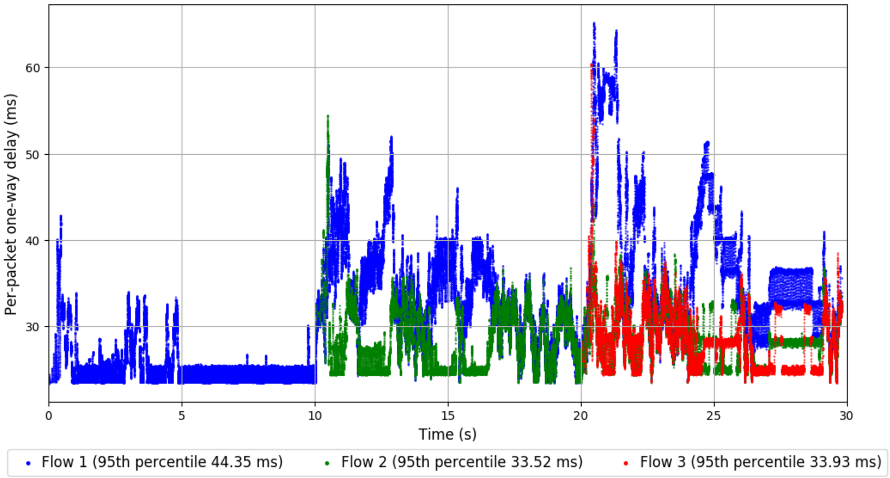


```
Run 10: Statistics of Indigo-1-128

Start at: 2018-01-26 13:56:09
End at: 2018-01-26 13:56:39
Local clock offset: 1.596 ms
Remote clock offset: -0.678 ms

# Below is generated by plot.py at 2018-01-26 18:32:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.91 Mbit/s
95th percentile per-packet one-way delay: 41.896 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 57.56 Mbit/s
95th percentile per-packet one-way delay: 44.353 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 32.55 Mbit/s
95th percentile per-packet one-way delay: 33.516 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 29.83 Mbit/s
95th percentile per-packet one-way delay: 33.928 ms
Loss rate: 0.94%
```

Run 10: Report of Indigo-1-128 — Data Link



Throughput (Mbit/s)
90
80
70
60
50
40
30
20
10
0
5
10
15
20
25
30
Time (s)
Flow 1 ingress (mean 57.77 Mbit/s)
Flow 2 ingress (mean 32.62 Mbit/s)
Flow 3 ingress (mean 29.94 Mbit/s)
Flow 1 egress (mean 57.56 Mbit/s)
Flow 2 egress (mean 32.55 Mbit/s)
Flow 3 egress (mean 29.83 Mbit/s)



Per-packet one-way delay (ms)
60
50
40
30
0
5
10
15
20
25
30
Time (s)
Flow 1 (95th percentile 44.35 ms)
Flow 2 (95th percentile 33.52 ms)
Flow 3 (95th percentile 33.93 ms)