

Pantheon Report

Generated at 2018-06-21 04:14:13 (UTC).

Data path: GCE Tokyo Ethernet (*remote*) → GCE Sydney Ethernet (*local*).

Repeated the test of 16 congestion control schemes 10 times.

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

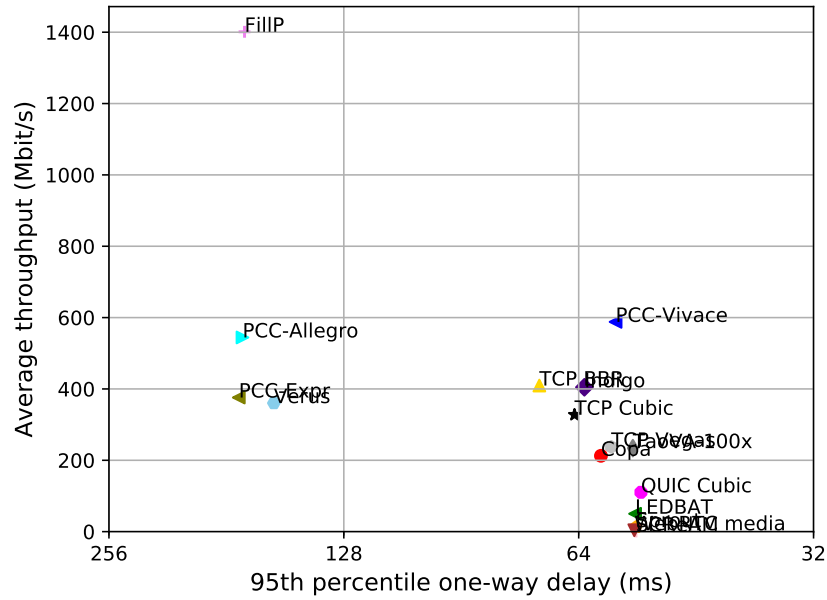
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

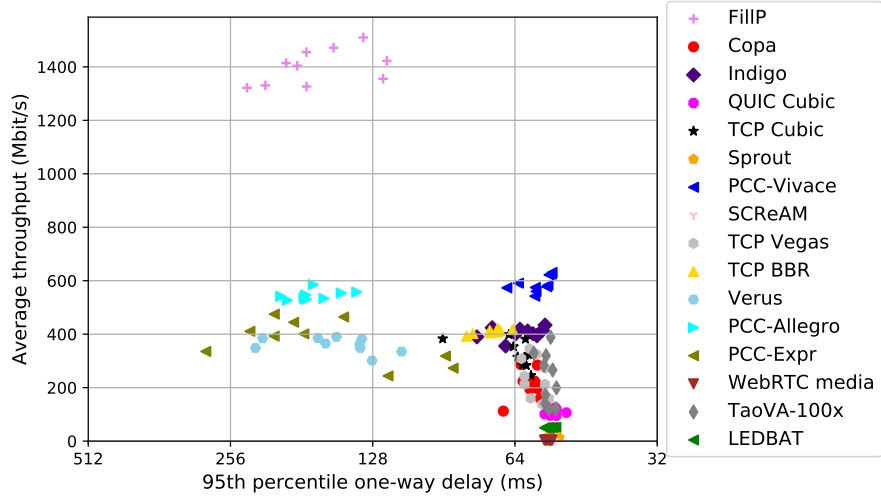
Git summary:

```
branch: master @ 9141c5f9450c85ea5ea2ea755a8e946998d3abf3
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
  M src/ScreamClient
  M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from GCE Tokyo to GCE Sydney, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE Tokyo to GCE Sydney, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows



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	210.10	203.84	193.80	70.06	71.63	75.04	0.34	0.59	1.25
Copa	10	125.65	113.45	72.67	59.23	58.19	59.24	0.24	0.61	1.36
TCP Cubic	10	193.52	156.46	91.31	64.67	64.04	63.81	0.34	0.90	2.29
FillP	10	764.73	689.42	543.26	169.31	155.54	159.30	2.52	4.11	3.43
Indigo	10	217.88	199.59	165.89	59.96	63.41	67.00	0.33	0.52	1.19
LEDBAT	10	32.35	21.48	10.83	54.29	54.06	53.19	0.69	1.04	2.11
PCC-Allegro	10	503.95	45.61	31.15	172.72	171.85	148.78	2.37	2.85	3.17
PCC-Expr	10	252.56	151.66	69.19	162.63	142.70	99.25	4.67	2.61	4.35
QUIC Cubic	10	64.33	45.66	47.15	52.89	52.51	52.89	0.36	0.82	1.38
SCReAM	10	0.21	0.21	0.22	51.95	53.65	53.26	0.33	0.60	1.06
Sprout	10	6.83	6.06	5.27	54.08	54.01	53.67	0.34	0.50	1.38
TaoVA-100x	10	119.38	168.79	89.66	54.22	53.88	54.66	0.14	0.34	1.35
TCP Vegas	10	151.75	97.53	64.37	57.68	57.37	56.56	0.33	0.58	1.35
Verus	10	222.08	148.55	123.61	139.09	154.91	162.90	0.81	1.79	3.77
PCC-Vivace	10	362.01	319.45	42.38	59.80	66.36	51.96	0.33	0.62	1.62
WebRTC media	10	2.01	1.32	0.54	52.95	53.98	53.59	0.45	0.63	1.34

Run 1: Statistics of TCP BBR

Start at: 2018-06-20 21:52:25

End at: 2018-06-20 21:52:55

Local clock offset: 0.086 ms

Remote clock offset: 0.309 ms

Below is generated by plot.py at 2018-06-21 02:03:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 417.26 Mbit/s

95th percentile per-packet one-way delay: 64.727 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 211.80 Mbit/s

95th percentile per-packet one-way delay: 63.087 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 208.21 Mbit/s

95th percentile per-packet one-way delay: 64.523 ms

Loss rate: 0.59%

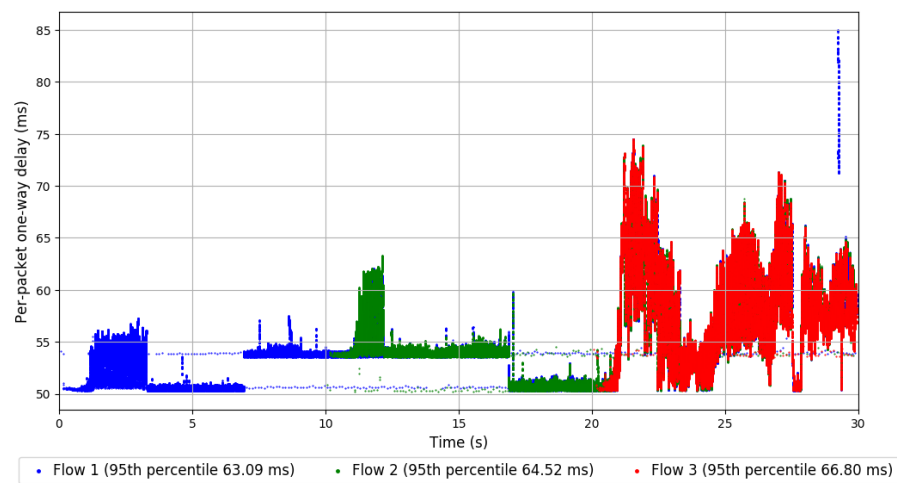
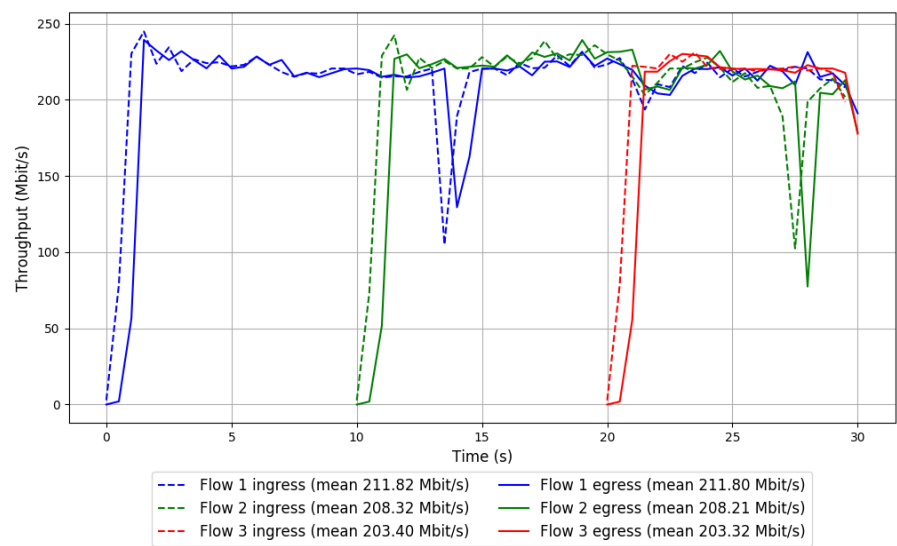
-- Flow 3:

Average throughput: 203.32 Mbit/s

95th percentile per-packet one-way delay: 66.804 ms

Loss rate: 1.12%

Run 1: Report of TCP BBR — Data Link

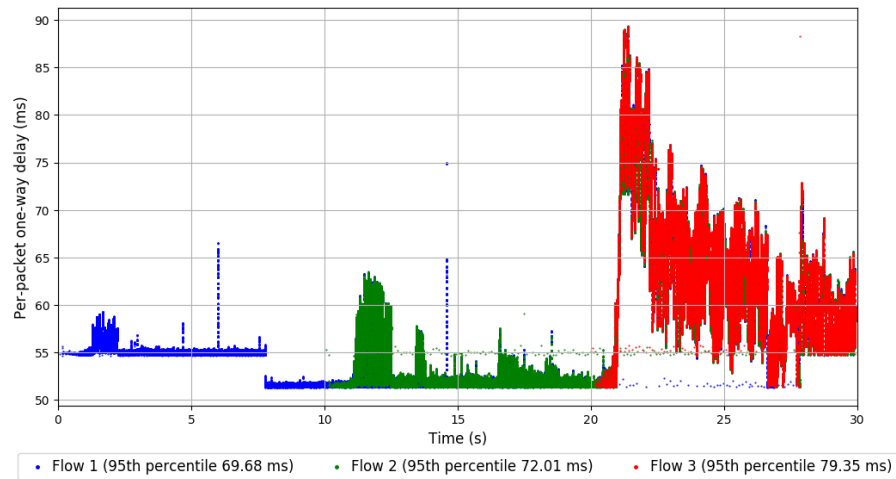
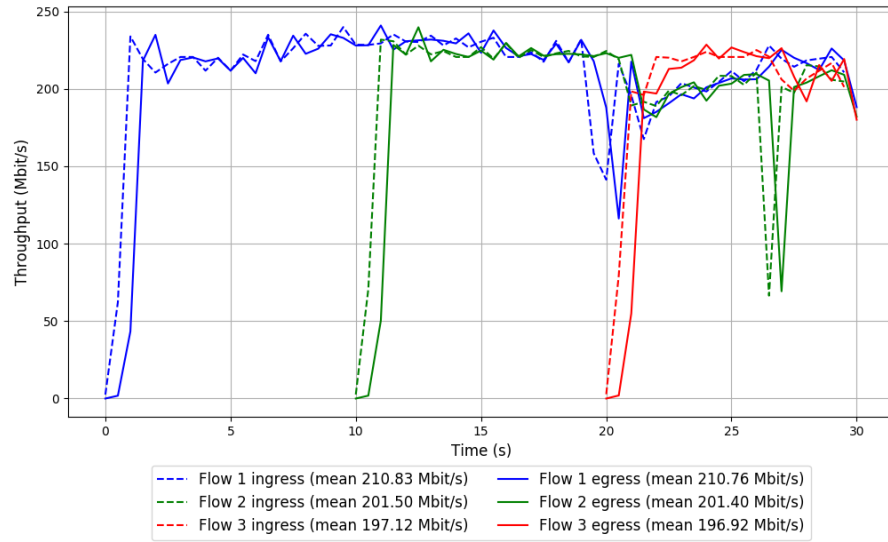


Run 2: Statistics of TCP BBR

Start at: 2018-06-20 22:15:34
End at: 2018-06-20 22:16:04
Local clock offset: -0.176 ms
Remote clock offset: -0.969 ms

Below is generated by plot.py at 2018-06-21 02:03:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 409.64 Mbit/s
95th percentile per-packet one-way delay: 72.366 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 210.76 Mbit/s
95th percentile per-packet one-way delay: 69.679 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 201.40 Mbit/s
95th percentile per-packet one-way delay: 72.011 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 196.92 Mbit/s
95th percentile per-packet one-way delay: 79.352 ms
Loss rate: 1.16%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-06-20 22:38:29

End at: 2018-06-20 22:38:59

Local clock offset: 0.266 ms

Remote clock offset: 0.201 ms

Below is generated by plot.py at 2018-06-21 02:03:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 412.43 Mbit/s

95th percentile per-packet one-way delay: 69.733 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 212.72 Mbit/s

95th percentile per-packet one-way delay: 68.582 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 202.40 Mbit/s

95th percentile per-packet one-way delay: 70.081 ms

Loss rate: 0.57%

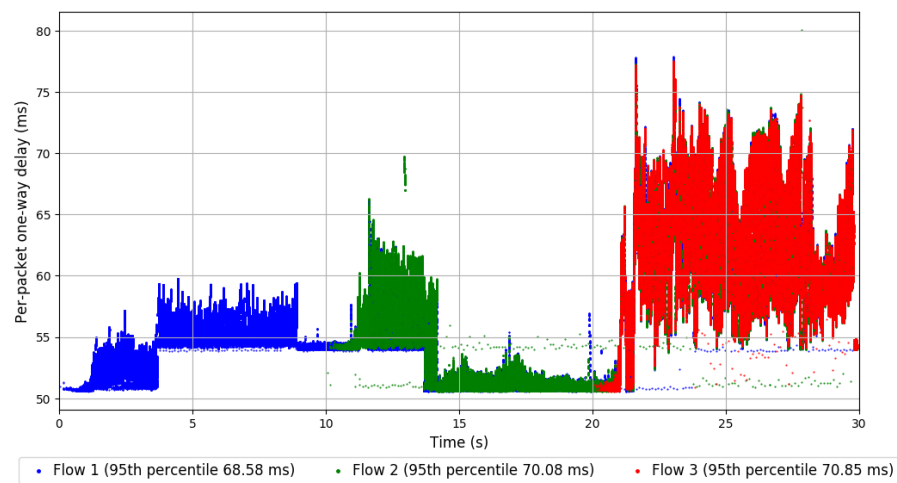
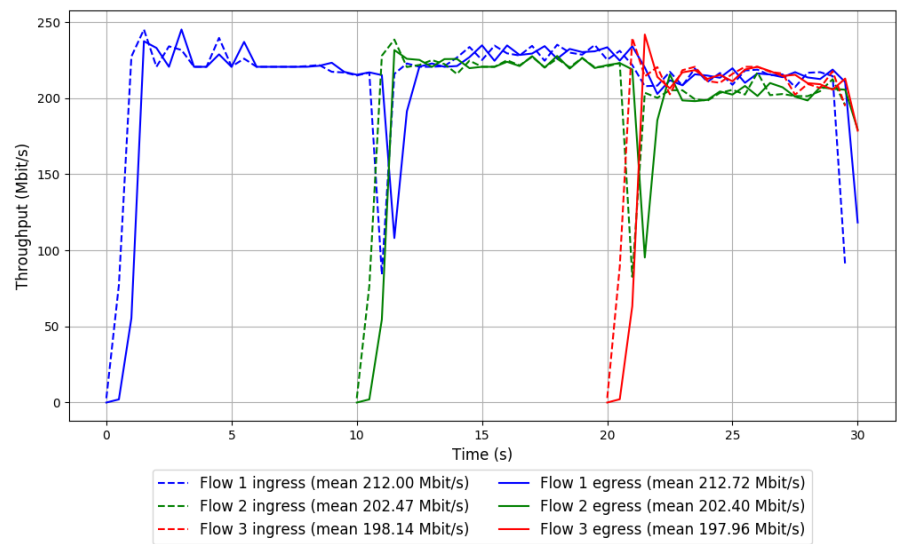
-- Flow 3:

Average throughput: 197.96 Mbit/s

95th percentile per-packet one-way delay: 70.854 ms

Loss rate: 1.15%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-06-20 23:01:18

End at: 2018-06-20 23:01:48

Local clock offset: -0.148 ms

Remote clock offset: 1.388 ms

Below is generated by plot.py at 2018-06-21 02:03:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 413.36 Mbit/s

95th percentile per-packet one-way delay: 68.817 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 212.30 Mbit/s

95th percentile per-packet one-way delay: 66.991 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 203.58 Mbit/s

95th percentile per-packet one-way delay: 69.010 ms

Loss rate: 0.64%

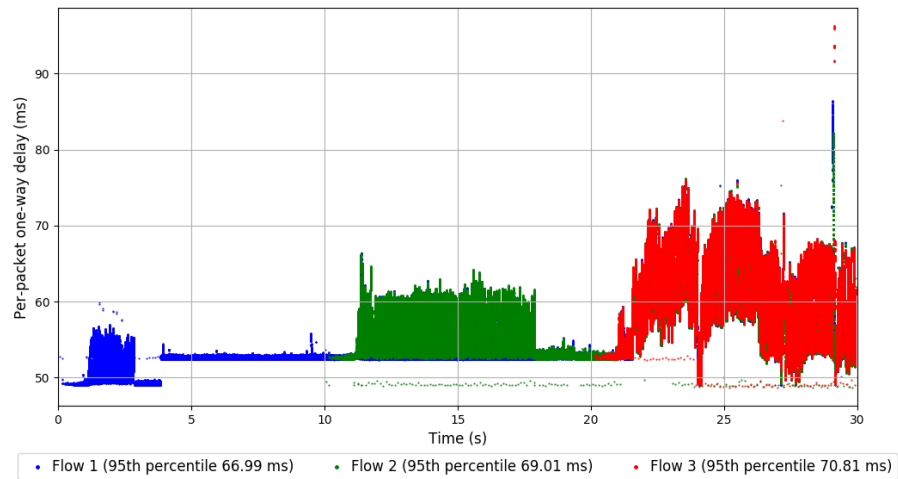
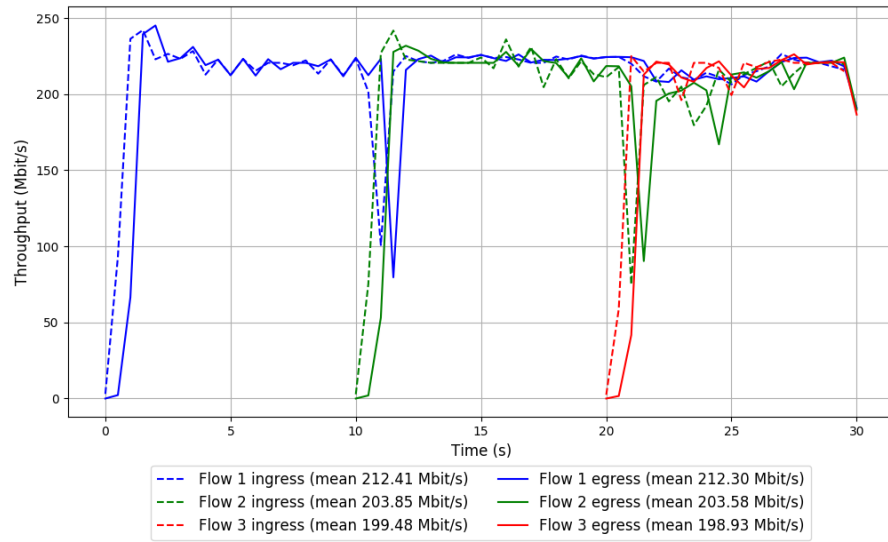
-- Flow 3:

Average throughput: 198.93 Mbit/s

95th percentile per-packet one-way delay: 70.812 ms

Loss rate: 1.33%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-06-20 23:24:11

End at: 2018-06-20 23:24:41

Local clock offset: -0.033 ms

Remote clock offset: 0.415 ms

Below is generated by plot.py at 2018-06-21 02:03:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 413.53 Mbit/s

95th percentile per-packet one-way delay: 72.338 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 214.12 Mbit/s

95th percentile per-packet one-way delay: 69.967 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 205.51 Mbit/s

95th percentile per-packet one-way delay: 72.789 ms

Loss rate: 0.55%

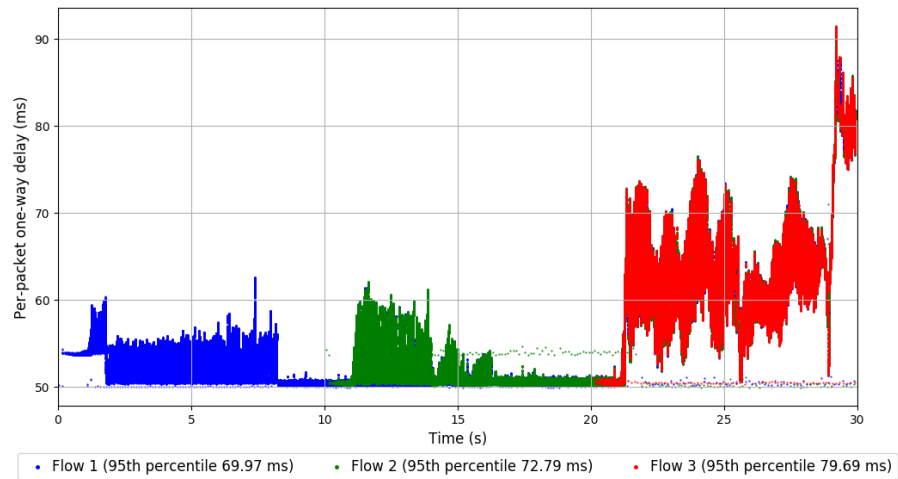
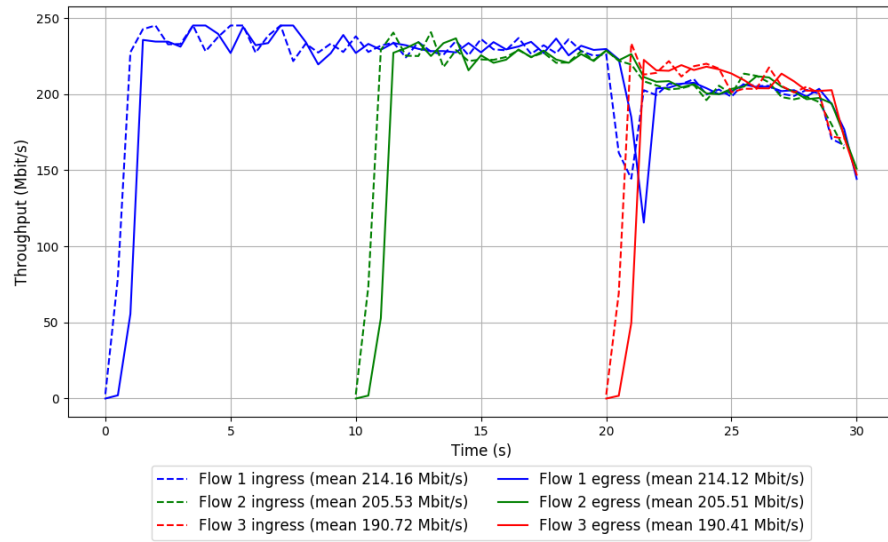
-- Flow 3:

Average throughput: 190.41 Mbit/s

95th percentile per-packet one-way delay: 79.692 ms

Loss rate: 1.28%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-06-20 23:46:56

End at: 2018-06-20 23:47:26

Local clock offset: -0.048 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2018-06-21 02:03:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 421.14 Mbit/s

95th percentile per-packet one-way delay: 69.666 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 216.80 Mbit/s

95th percentile per-packet one-way delay: 68.096 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 206.22 Mbit/s

95th percentile per-packet one-way delay: 69.951 ms

Loss rate: 0.58%

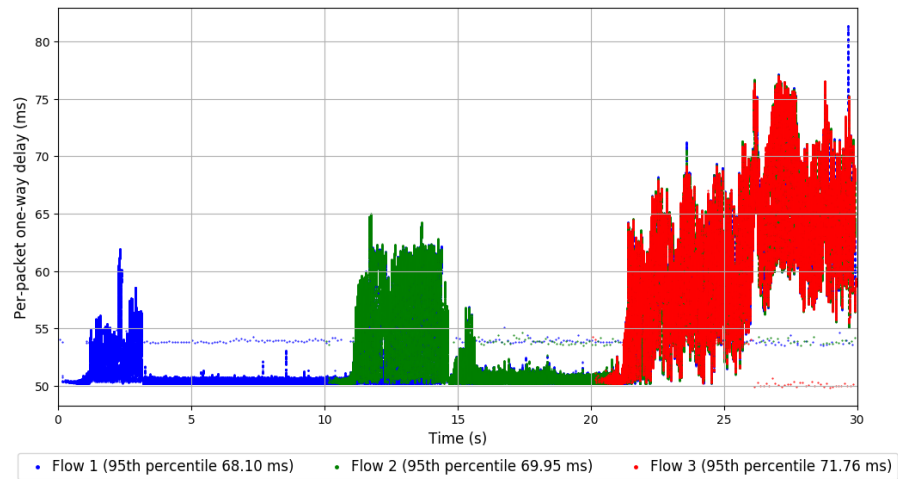
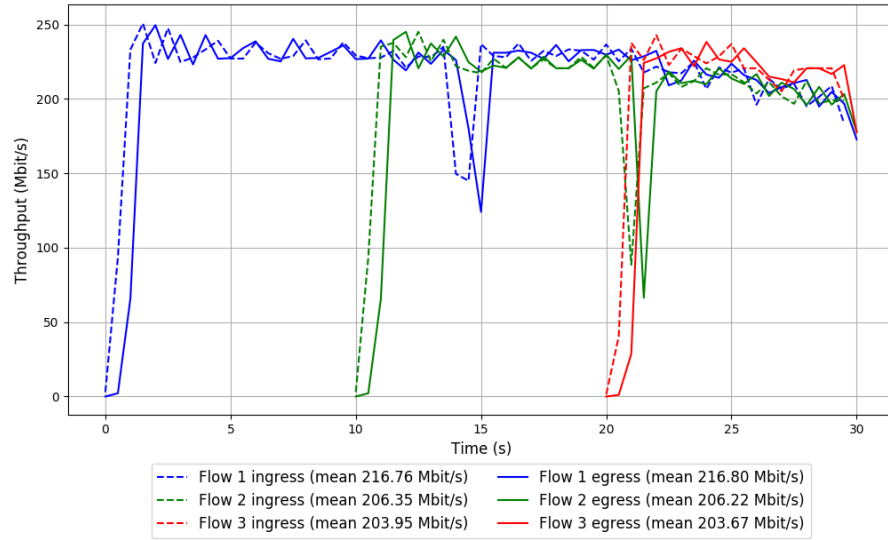
-- Flow 3:

Average throughput: 203.67 Mbit/s

95th percentile per-packet one-way delay: 71.762 ms

Loss rate: 1.19%

Run 6: Report of TCP BBR — Data Link

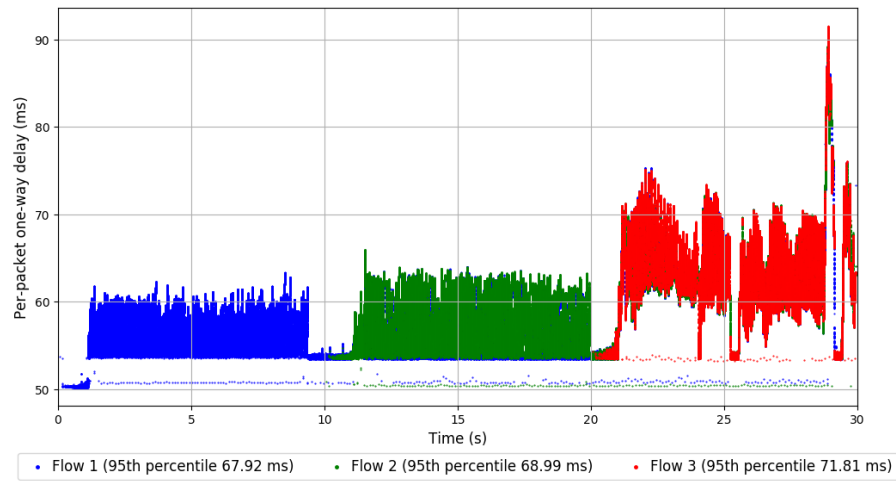
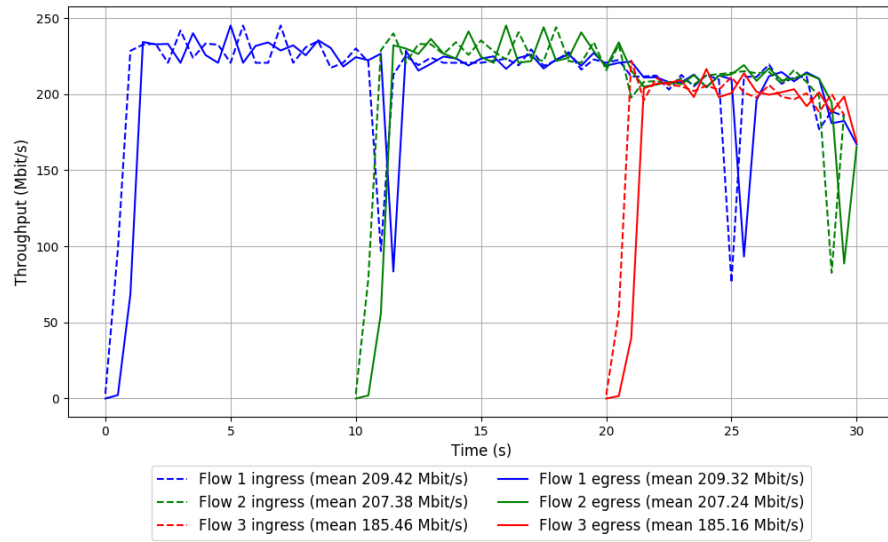


Run 7: Statistics of TCP BBR

Start at: 2018-06-21 00:10:01
End at: 2018-06-21 00:10:31
Local clock offset: -0.025 ms
Remote clock offset: -0.171 ms

Below is generated by plot.py at 2018-06-21 02:03:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 408.22 Mbit/s
95th percentile per-packet one-way delay: 69.591 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 209.32 Mbit/s
95th percentile per-packet one-way delay: 67.921 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 207.24 Mbit/s
95th percentile per-packet one-way delay: 68.991 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 185.16 Mbit/s
95th percentile per-packet one-way delay: 71.814 ms
Loss rate: 1.22%

Run 7: Report of TCP BBR — Data Link

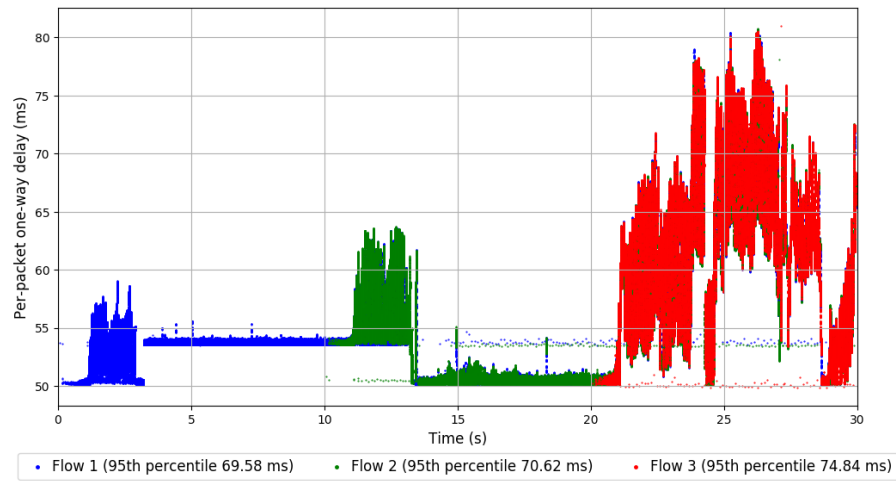
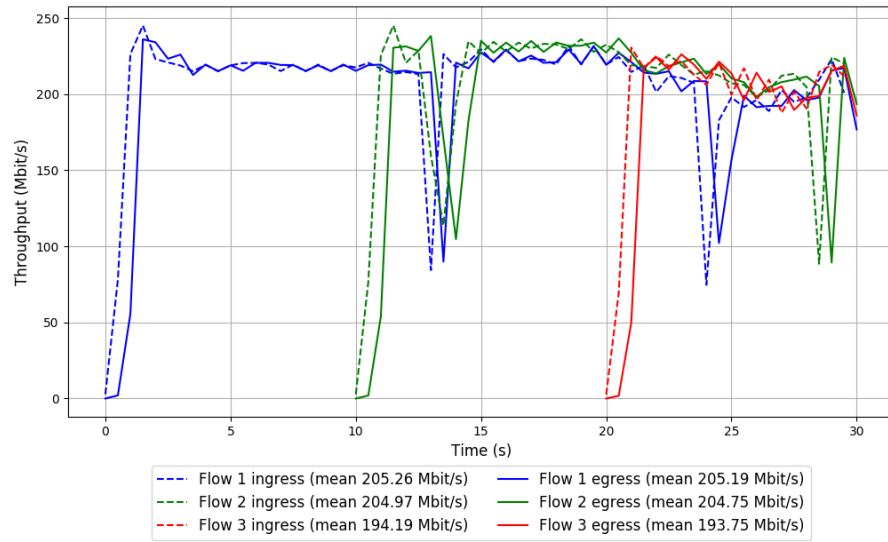


Run 8: Statistics of TCP BBR

Start at: 2018-06-21 00:33:29
End at: 2018-06-21 00:33:59
Local clock offset: -0.016 ms
Remote clock offset: -0.338 ms

Below is generated by plot.py at 2018-06-21 02:03:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 405.33 Mbit/s
95th percentile per-packet one-way delay: 71.941 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 205.19 Mbit/s
95th percentile per-packet one-way delay: 69.585 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 204.75 Mbit/s
95th percentile per-packet one-way delay: 70.623 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 193.75 Mbit/s
95th percentile per-packet one-way delay: 74.843 ms
Loss rate: 1.28%

Run 8: Report of TCP BBR — Data Link

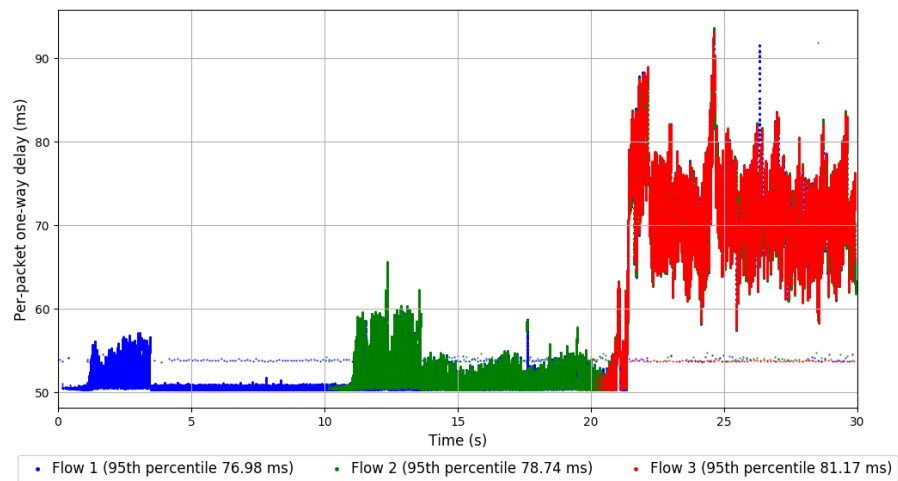
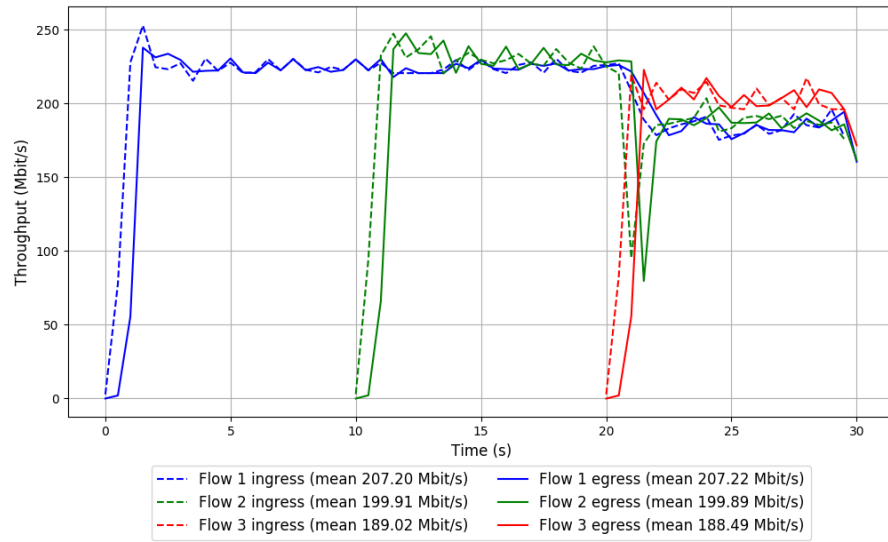


Run 9: Statistics of TCP BBR

Start at: 2018-06-21 00:56:25
End at: 2018-06-21 00:56:55
Local clock offset: -0.042 ms
Remote clock offset: -0.314 ms

Below is generated by plot.py at 2018-06-21 02:09:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 402.24 Mbit/s
95th percentile per-packet one-way delay: 78.557 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 207.22 Mbit/s
95th percentile per-packet one-way delay: 76.976 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 199.89 Mbit/s
95th percentile per-packet one-way delay: 78.742 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 188.49 Mbit/s
95th percentile per-packet one-way delay: 81.168 ms
Loss rate: 1.30%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-06-21 01:19:38

End at: 2018-06-21 01:20:08

Local clock offset: 0.054 ms

Remote clock offset: 0.155 ms

Below is generated by plot.py at 2018-06-21 02:09:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 392.22 Mbit/s

95th percentile per-packet one-way delay: 81.027 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 200.77 Mbit/s

95th percentile per-packet one-way delay: 79.732 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 199.25 Mbit/s

95th percentile per-packet one-way delay: 79.600 ms

Loss rate: 0.62%

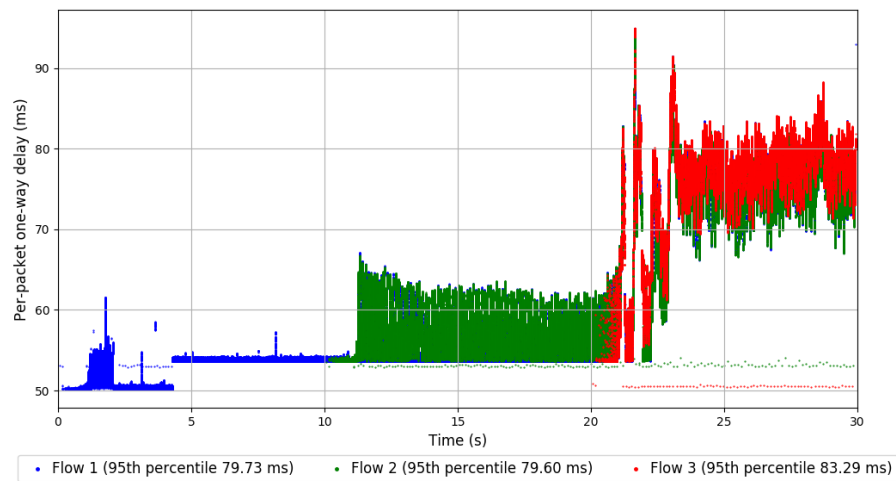
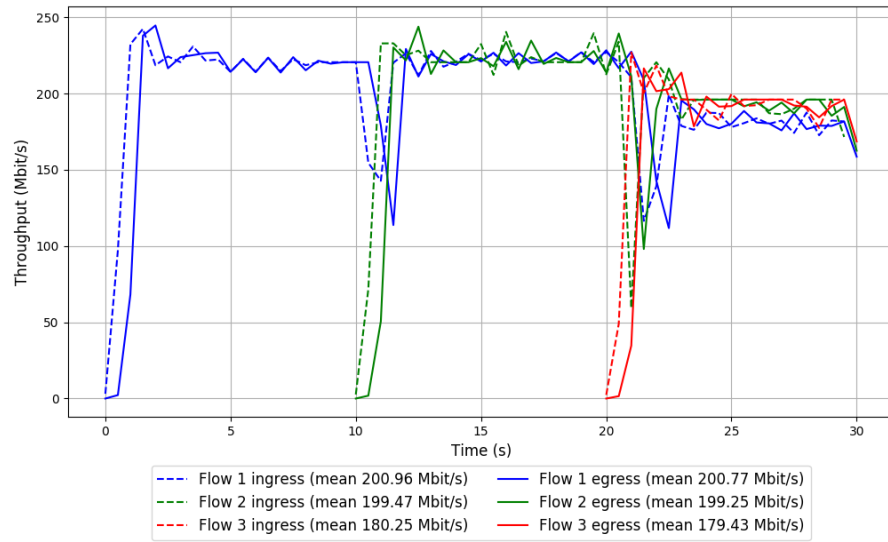
-- Flow 3:

Average throughput: 179.43 Mbit/s

95th percentile per-packet one-way delay: 83.293 ms

Loss rate: 1.45%

Run 10: Report of TCP BBR — Data Link

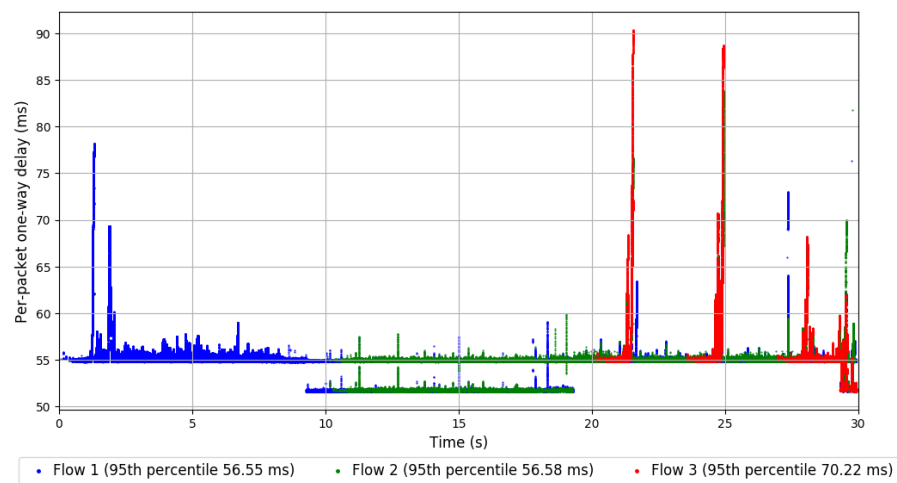
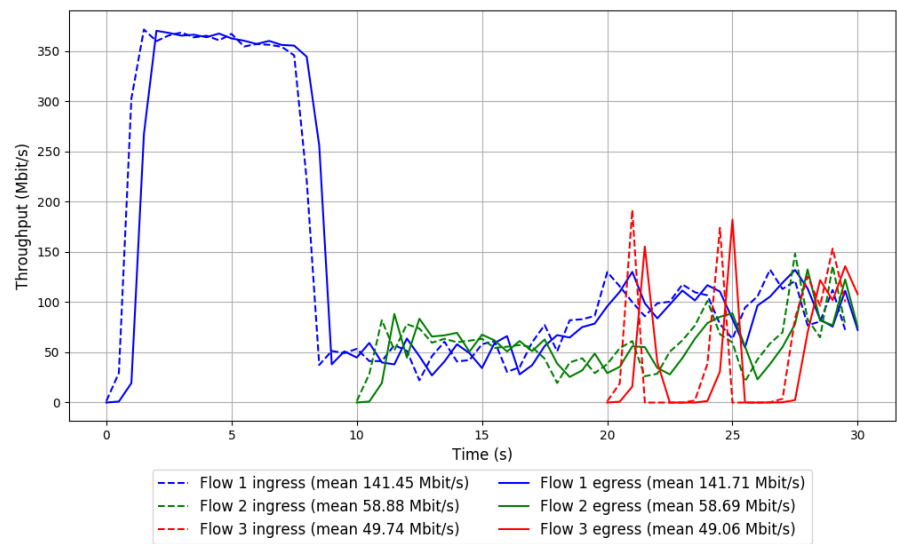


Run 1: Statistics of Copa

Start at: 2018-06-20 22:05:13
End at: 2018-06-20 22:05:43
Local clock offset: 0.072 ms
Remote clock offset: -0.981 ms

Below is generated by plot.py at 2018-06-21 02:09:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 196.87 Mbit/s
95th percentile per-packet one-way delay: 57.465 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 141.71 Mbit/s
95th percentile per-packet one-way delay: 56.546 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 58.69 Mbit/s
95th percentile per-packet one-way delay: 56.582 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 49.06 Mbit/s
95th percentile per-packet one-way delay: 70.223 ms
Loss rate: 2.41%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-06-20 22:28:15

End at: 2018-06-20 22:28:45

Local clock offset: -0.157 ms

Remote clock offset: 0.235 ms

Below is generated by plot.py at 2018-06-21 02:12:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 286.88 Mbit/s

95th percentile per-packet one-way delay: 62.190 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 62.21 Mbit/s

95th percentile per-packet one-way delay: 53.820 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 320.23 Mbit/s

95th percentile per-packet one-way delay: 63.094 ms

Loss rate: 0.51%

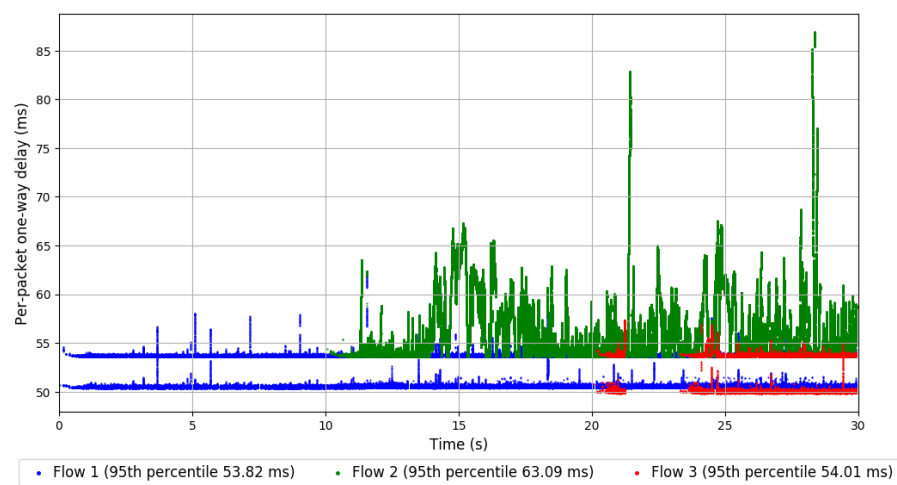
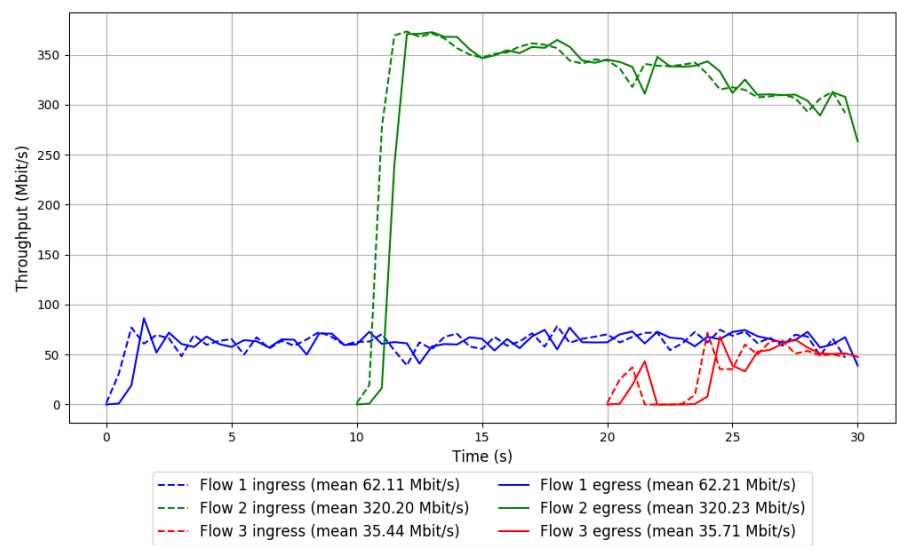
-- Flow 3:

Average throughput: 35.71 Mbit/s

95th percentile per-packet one-way delay: 54.005 ms

Loss rate: 0.36%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-06-20 22:51:17

End at: 2018-06-20 22:51:47

Local clock offset: 0.177 ms

Remote clock offset: 0.394 ms

Below is generated by plot.py at 2018-06-21 02:12:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 159.55 Mbit/s

95th percentile per-packet one-way delay: 56.559 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 99.19 Mbit/s

95th percentile per-packet one-way delay: 57.610 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 47.79 Mbit/s

95th percentile per-packet one-way delay: 53.855 ms

Loss rate: 0.72%

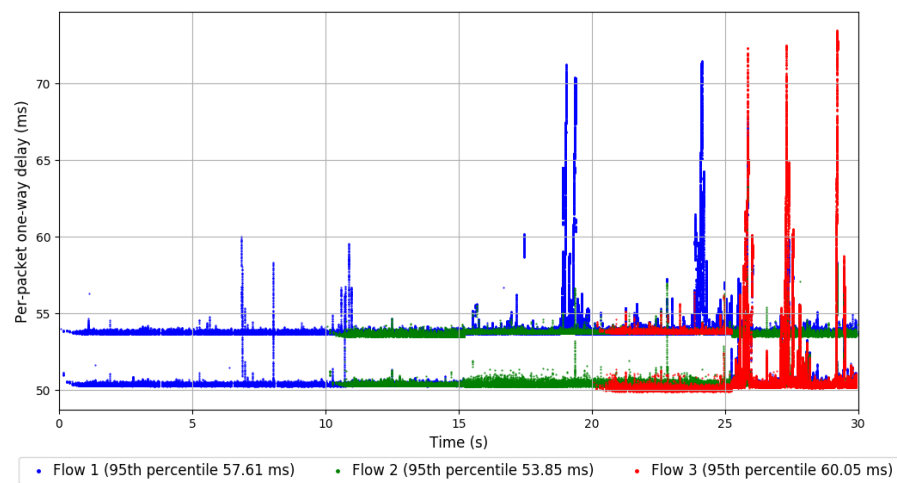
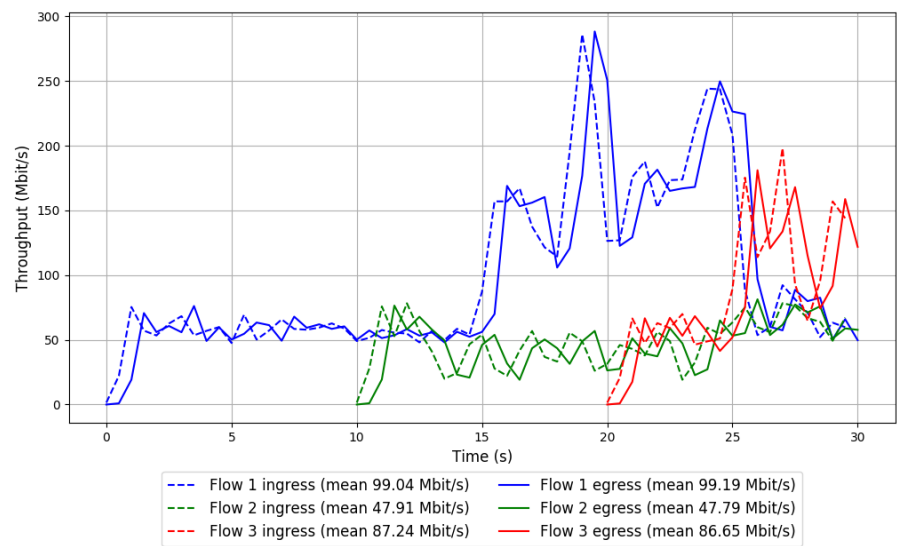
-- Flow 3:

Average throughput: 86.65 Mbit/s

95th percentile per-packet one-way delay: 60.045 ms

Loss rate: 1.77%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-06-20 23:14:06

End at: 2018-06-20 23:14:36

Local clock offset: 0.132 ms

Remote clock offset: 0.519 ms

Below is generated by plot.py at 2018-06-21 02:12:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 195.14 Mbit/s

95th percentile per-packet one-way delay: 59.569 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 51.34 Mbit/s

95th percentile per-packet one-way delay: 53.828 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 195.57 Mbit/s

95th percentile per-packet one-way delay: 61.687 ms

Loss rate: 0.18%

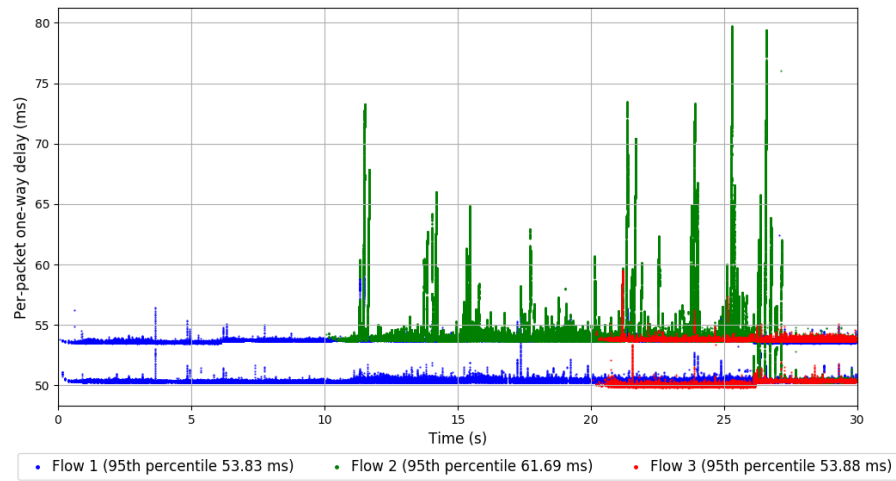
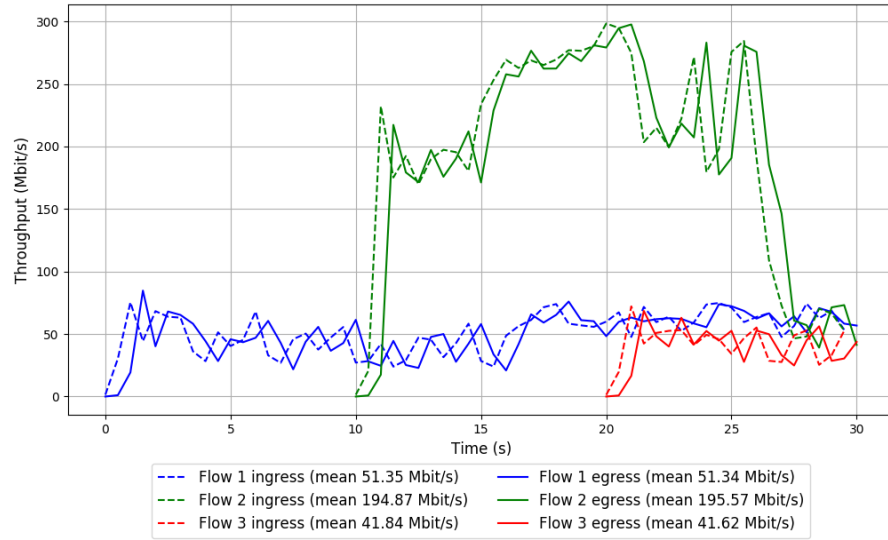
-- Flow 3:

Average throughput: 41.62 Mbit/s

95th percentile per-packet one-way delay: 53.884 ms

Loss rate: 1.56%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-06-20 23:36:56

End at: 2018-06-20 23:37:26

Local clock offset: -0.082 ms

Remote clock offset: 0.344 ms

Below is generated by plot.py at 2018-06-21 02:12:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 212.84 Mbit/s

95th percentile per-packet one-way delay: 57.587 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 144.00 Mbit/s

95th percentile per-packet one-way delay: 55.534 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 66.76 Mbit/s

95th percentile per-packet one-way delay: 60.510 ms

Loss rate: 1.02%

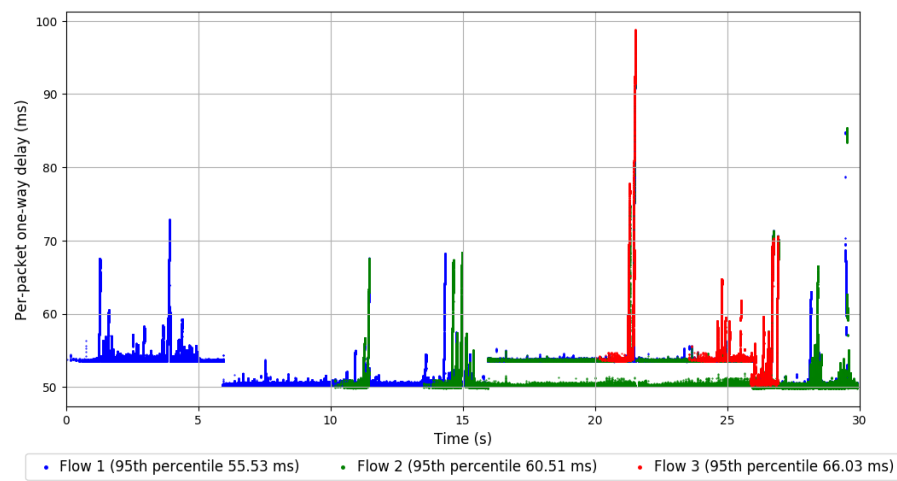
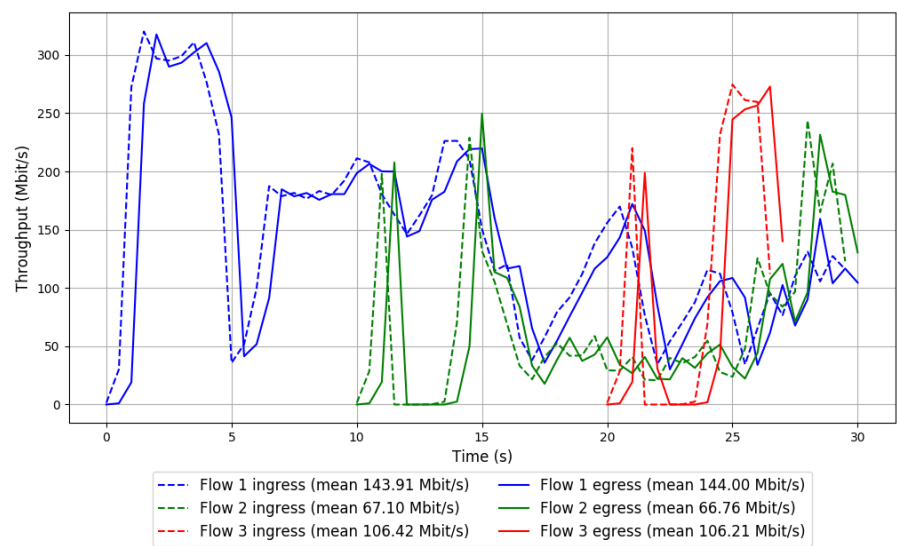
-- Flow 3:

Average throughput: 106.21 Mbit/s

95th percentile per-packet one-way delay: 66.030 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link

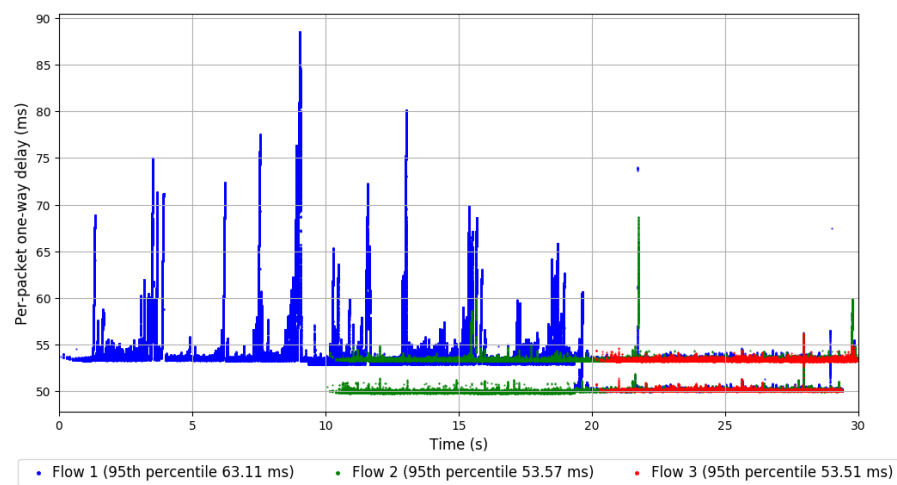
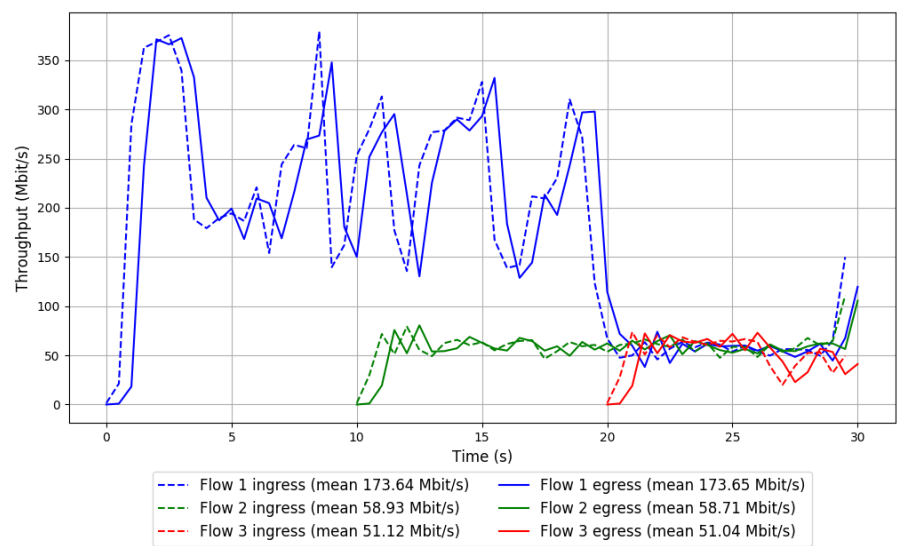


Run 6: Statistics of Copa

Start at: 2018-06-20 23:59:43
End at: 2018-06-21 00:00:13
Local clock offset: -0.267 ms
Remote clock offset: -0.148 ms

Below is generated by plot.py at 2018-06-21 02:12:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 229.56 Mbit/s
95th percentile per-packet one-way delay: 61.105 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 173.65 Mbit/s
95th percentile per-packet one-way delay: 63.112 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 58.71 Mbit/s
95th percentile per-packet one-way delay: 53.567 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 51.04 Mbit/s
95th percentile per-packet one-way delay: 53.512 ms
Loss rate: 1.23%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-06-21 00:23:02

End at: 2018-06-21 00:23:32

Local clock offset: 0.122 ms

Remote clock offset: -0.37 ms

Below is generated by plot.py at 2018-06-21 02:17:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 284.45 Mbit/s

95th percentile per-packet one-way delay: 57.374 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 229.29 Mbit/s

95th percentile per-packet one-way delay: 56.553 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 36.57 Mbit/s

95th percentile per-packet one-way delay: 53.905 ms

Loss rate: 0.94%

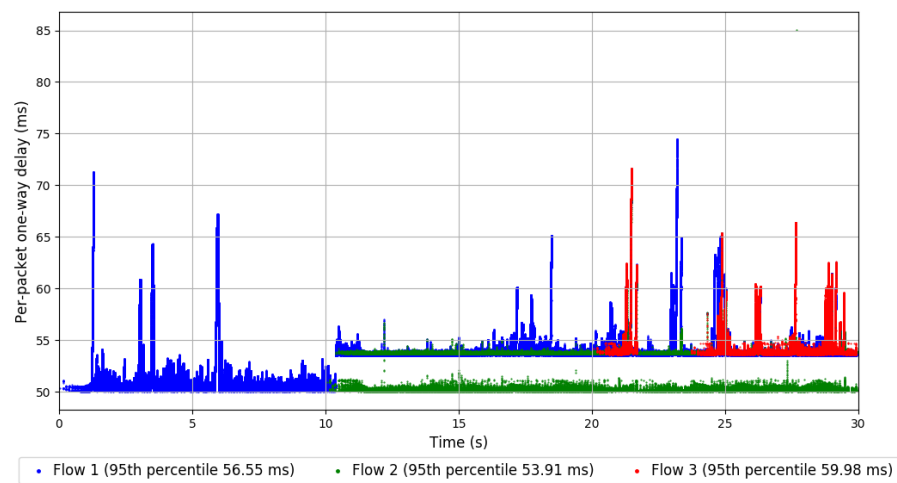
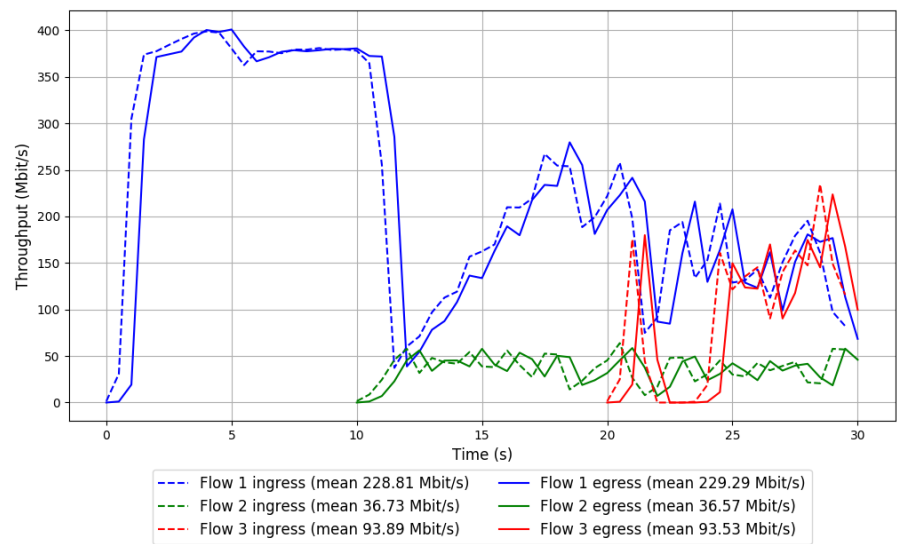
-- Flow 3:

Average throughput: 93.53 Mbit/s

95th percentile per-packet one-way delay: 59.980 ms

Loss rate: 1.47%

Run 7: Report of Copa — Data Link

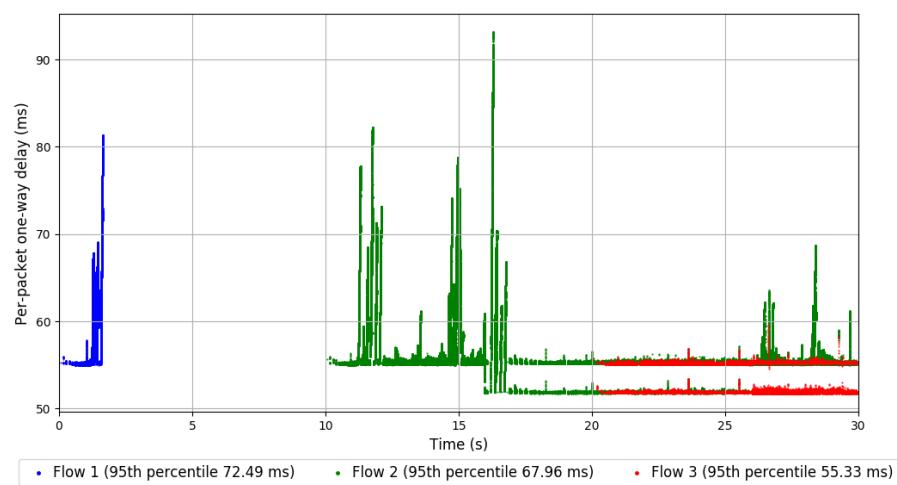
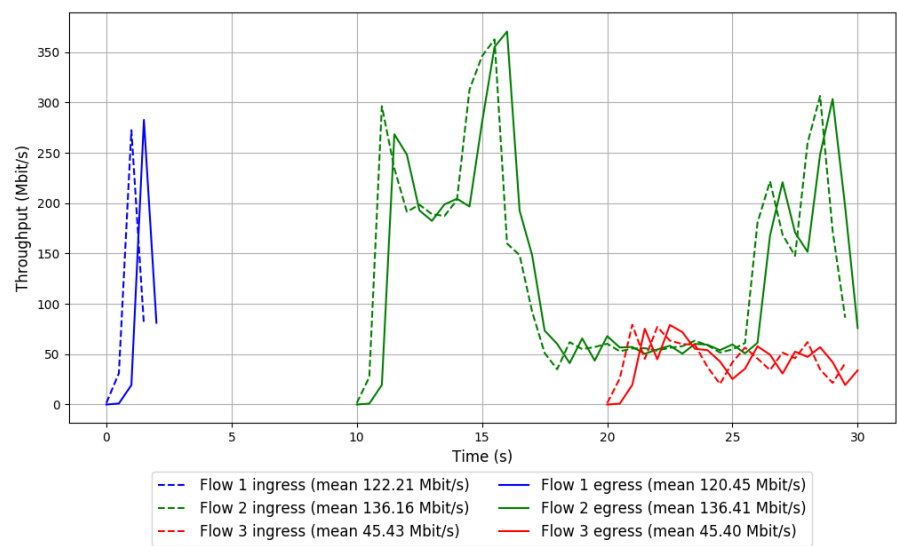


Run 8: Statistics of Copa

Start at: 2018-06-21 00:46:16
End at: 2018-06-21 00:46:46
Local clock offset: 0.266 ms
Remote clock offset: -1.705 ms

Below is generated by plot.py at 2018-06-21 02:17:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 112.11 Mbit/s
95th percentile per-packet one-way delay: 67.733 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 120.45 Mbit/s
95th percentile per-packet one-way delay: 72.491 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 136.41 Mbit/s
95th percentile per-packet one-way delay: 67.962 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 45.40 Mbit/s
95th percentile per-packet one-way delay: 55.328 ms
Loss rate: 1.14%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-06-21 01:09:25

End at: 2018-06-21 01:09:55

Local clock offset: -0.063 ms

Remote clock offset: 0.111 ms

Below is generated by plot.py at 2018-06-21 02:17:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 223.89 Mbit/s

95th percentile per-packet one-way delay: 61.540 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 94.75 Mbit/s

95th percentile per-packet one-way delay: 66.389 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 163.26 Mbit/s

95th percentile per-packet one-way delay: 56.840 ms

Loss rate: 0.17%

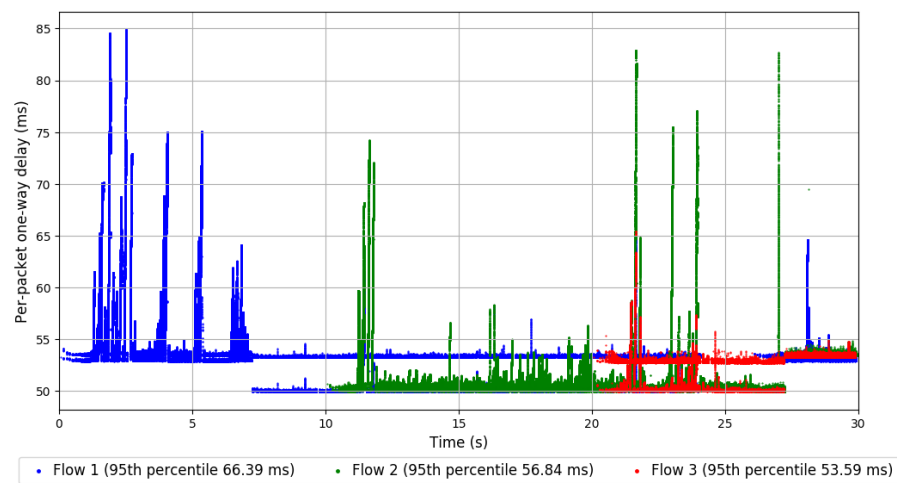
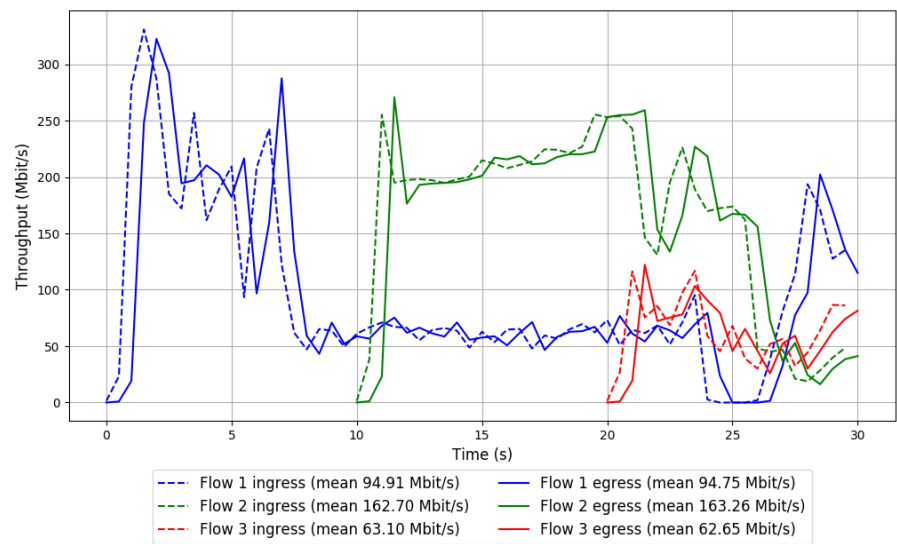
-- Flow 3:

Average throughput: 62.65 Mbit/s

95th percentile per-packet one-way delay: 53.586 ms

Loss rate: 1.79%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-06-21 01:32:31

End at: 2018-06-21 01:33:01

Local clock offset: 0.106 ms

Remote clock offset: 0.138 ms

Below is generated by plot.py at 2018-06-21 02:17:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 224.55 Mbit/s

95th percentile per-packet one-way delay: 58.196 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 139.91 Mbit/s

95th percentile per-packet one-way delay: 56.408 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 50.47 Mbit/s

95th percentile per-packet one-way delay: 53.853 ms

Loss rate: 0.43%

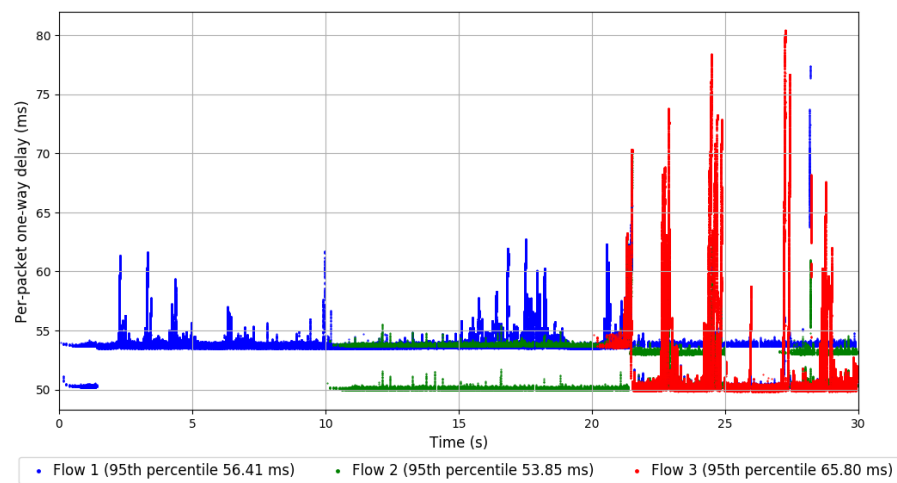
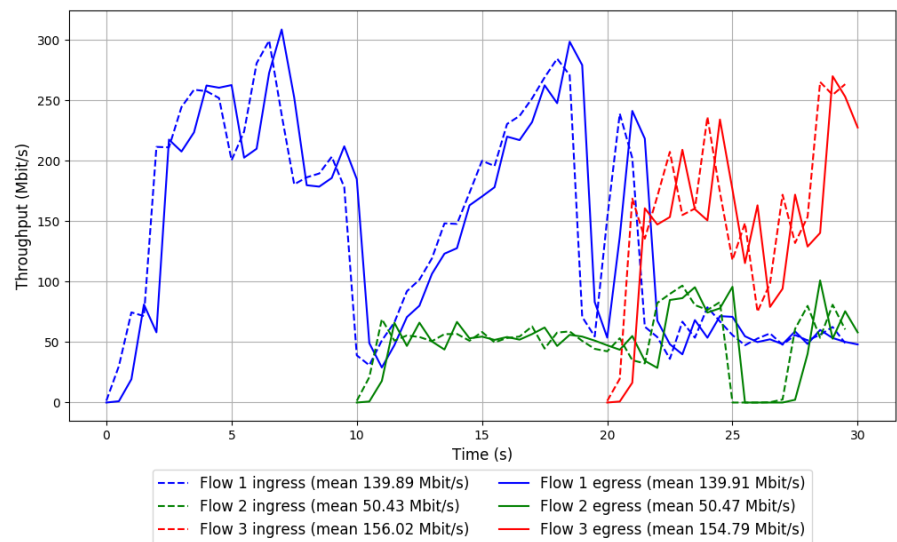
-- Flow 3:

Average throughput: 154.79 Mbit/s

95th percentile per-packet one-way delay: 65.799 ms

Loss rate: 1.84%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-06-20 21:58:38

End at: 2018-06-20 21:59:08

Local clock offset: -0.007 ms

Remote clock offset: 0.267 ms

Below is generated by plot.py at 2018-06-21 02:17:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 353.64 Mbit/s

95th percentile per-packet one-way delay: 64.459 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 139.67 Mbit/s

95th percentile per-packet one-way delay: 63.910 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 220.25 Mbit/s

95th percentile per-packet one-way delay: 64.408 ms

Loss rate: 0.58%

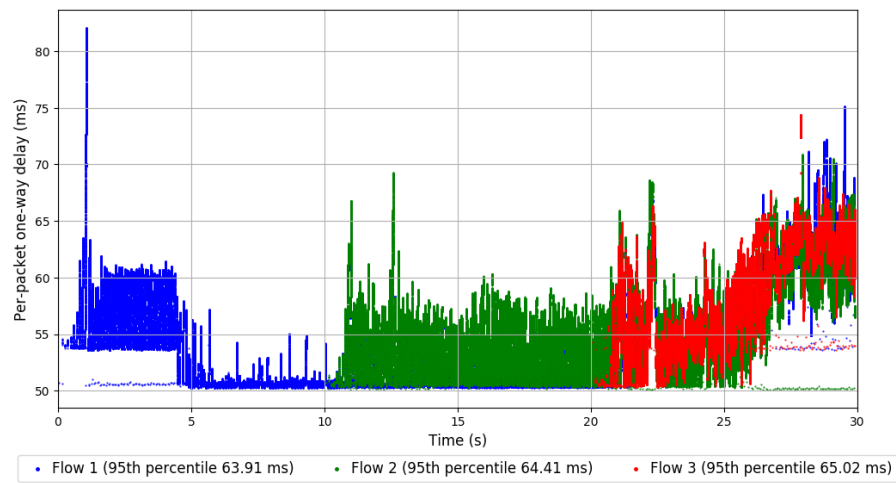
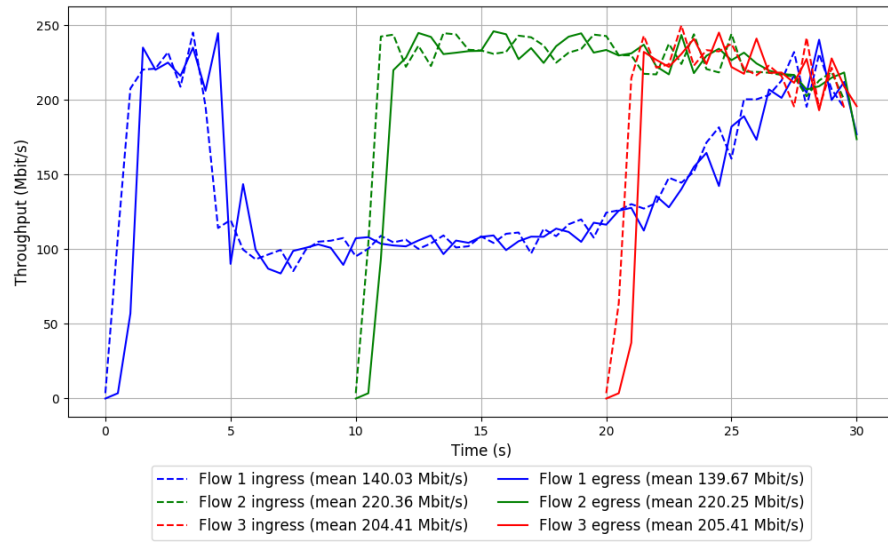
-- Flow 3:

Average throughput: 205.41 Mbit/s

95th percentile per-packet one-way delay: 65.023 ms

Loss rate: 0.65%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-06-20 22:21:47

End at: 2018-06-20 22:22:17

Local clock offset: 0.014 ms

Remote clock offset: 0.297 ms

Below is generated by plot.py at 2018-06-21 02:17:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 283.35 Mbit/s

95th percentile per-packet one-way delay: 60.583 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 214.53 Mbit/s

95th percentile per-packet one-way delay: 60.659 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 50.02 Mbit/s

95th percentile per-packet one-way delay: 60.452 ms

Loss rate: 2.23%

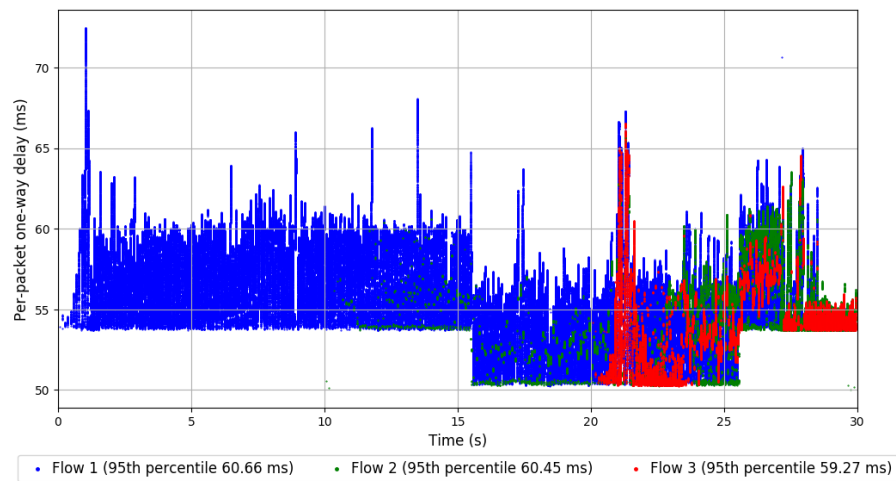
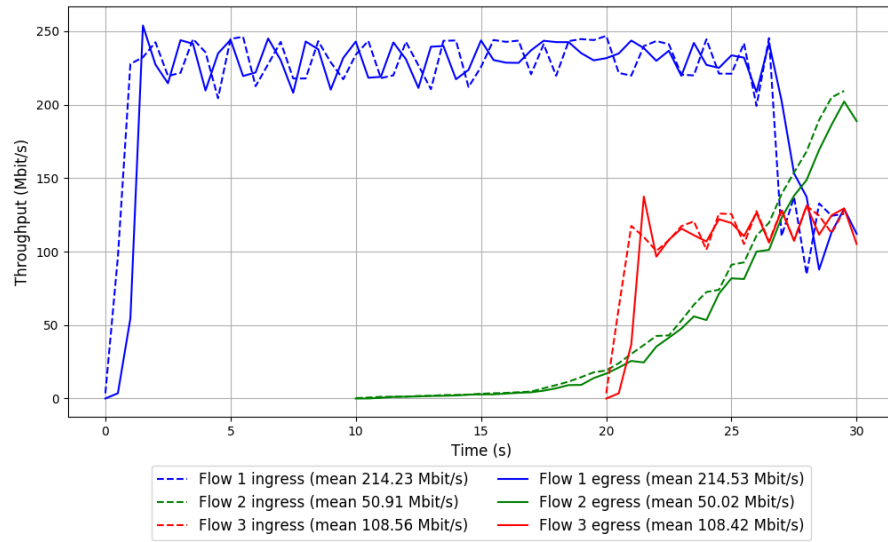
-- Flow 3:

Average throughput: 108.42 Mbit/s

95th percentile per-packet one-way delay: 59.269 ms

Loss rate: 1.19%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-06-20 22:44:43

End at: 2018-06-20 22:45:13

Local clock offset: 0.077 ms

Remote clock offset: 1.543 ms

Below is generated by plot.py at 2018-06-21 02:17:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 381.95 Mbit/s

95th percentile per-packet one-way delay: 60.799 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 189.85 Mbit/s

95th percentile per-packet one-way delay: 61.713 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 199.00 Mbit/s

95th percentile per-packet one-way delay: 59.767 ms

Loss rate: 0.25%

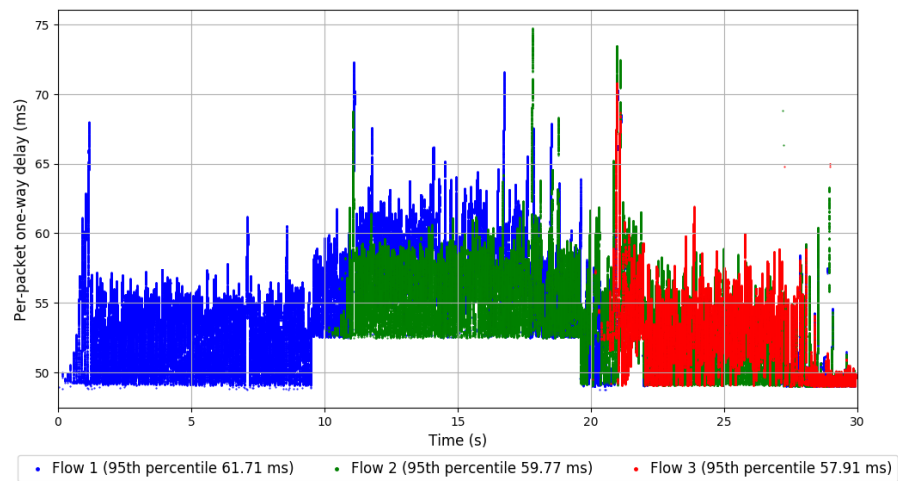
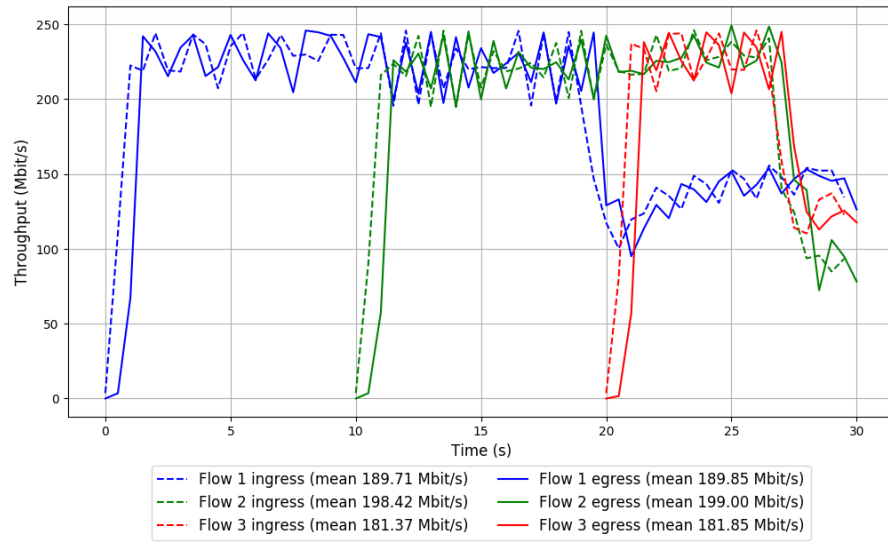
-- Flow 3:

Average throughput: 181.85 Mbit/s

95th percentile per-packet one-way delay: 57.906 ms

Loss rate: 0.78%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-06-20 23:07:29

End at: 2018-06-20 23:07:59

Local clock offset: 0.188 ms

Remote clock offset: 0.467 ms

Below is generated by plot.py at 2018-06-21 02:18:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 324.58 Mbit/s

95th percentile per-packet one-way delay: 59.941 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 215.17 Mbit/s

95th percentile per-packet one-way delay: 60.271 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 109.82 Mbit/s

95th percentile per-packet one-way delay: 55.796 ms

Loss rate: 0.78%

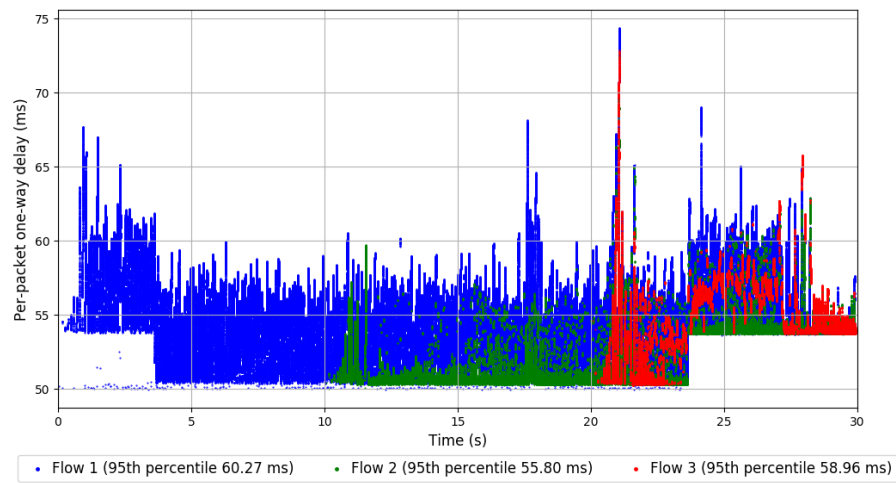
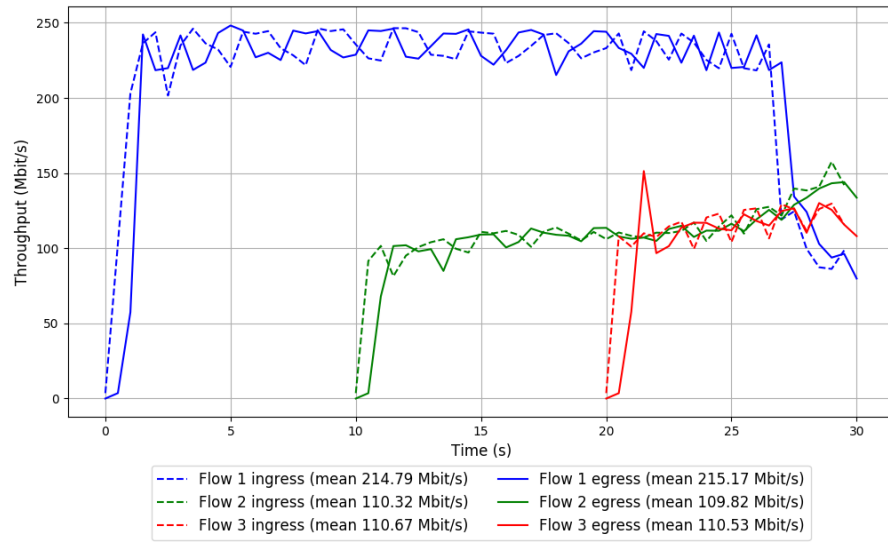
-- Flow 3:

Average throughput: 110.53 Mbit/s

95th percentile per-packet one-way delay: 58.957 ms

Loss rate: 1.17%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-06-20 23:30:26

End at: 2018-06-20 23:30:56

Local clock offset: -0.024 ms

Remote clock offset: 0.482 ms

Below is generated by plot.py at 2018-06-21 02:18:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.53 Mbit/s

95th percentile per-packet one-way delay: 63.166 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 166.96 Mbit/s

95th percentile per-packet one-way delay: 61.003 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 219.49 Mbit/s

95th percentile per-packet one-way delay: 64.654 ms

Loss rate: 0.60%

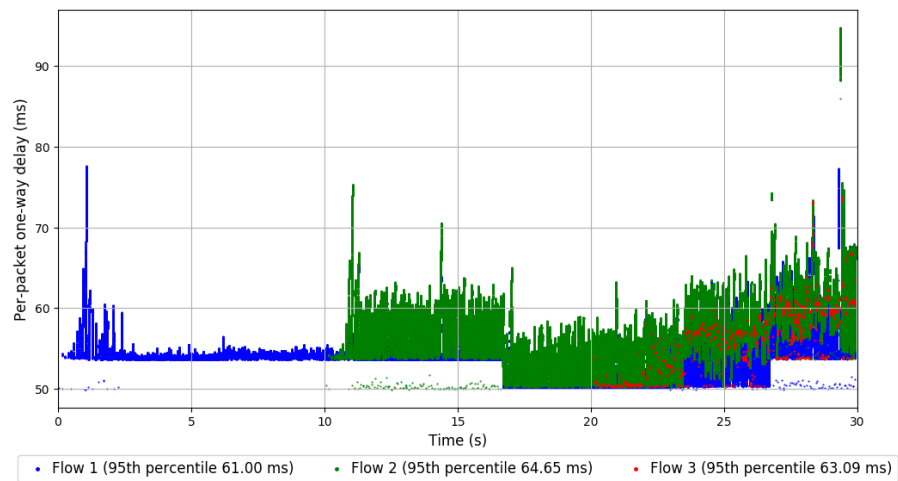
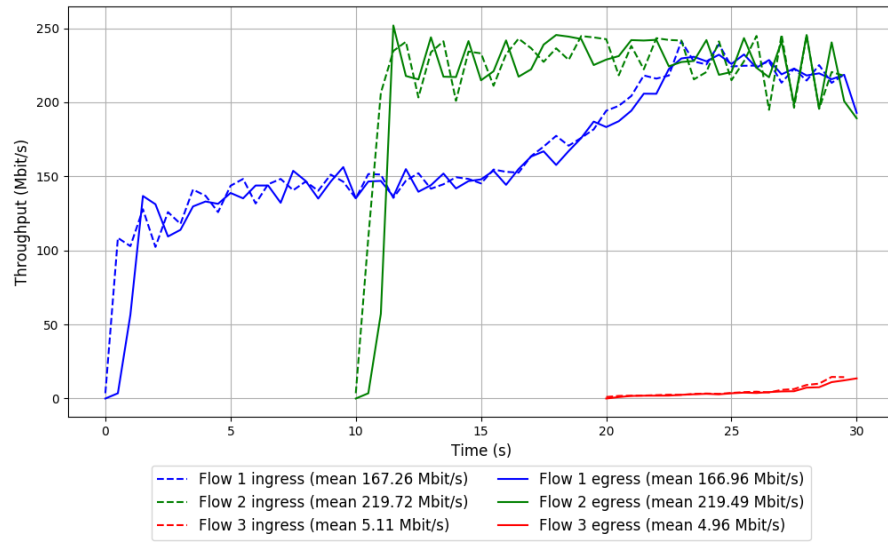
-- Flow 3:

Average throughput: 4.96 Mbit/s

95th percentile per-packet one-way delay: 63.092 ms

Loss rate: 3.86%

Run 5: Report of TCP Cubic — Data Link

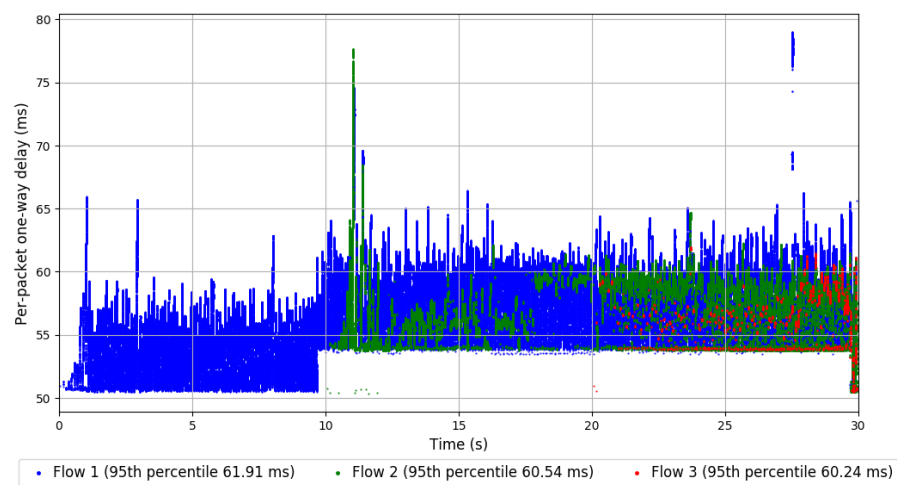
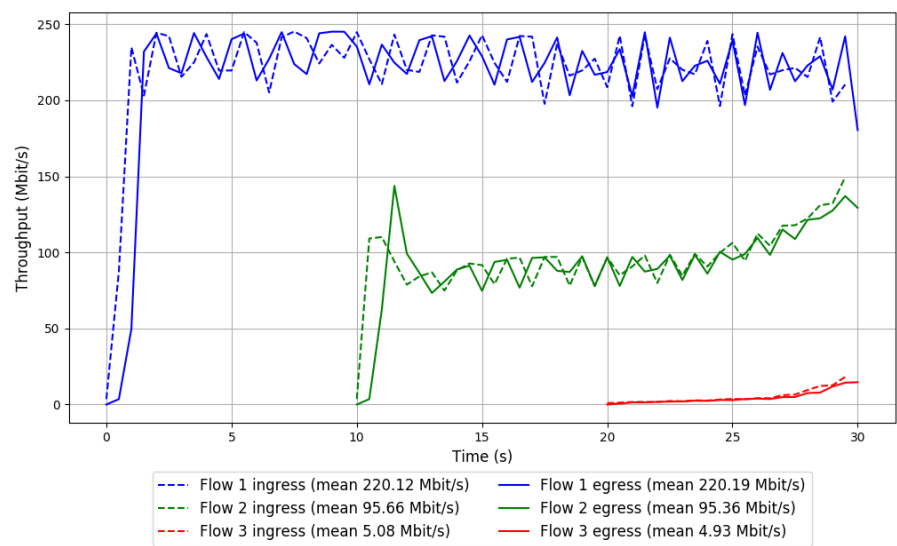


Run 6: Statistics of TCP Cubic

Start at: 2018-06-20 23:53:13
End at: 2018-06-20 23:53:43
Local clock offset: -0.019 ms
Remote clock offset: -0.268 ms

Below is generated by plot.py at 2018-06-21 02:19:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 285.24 Mbit/s
95th percentile per-packet one-way delay: 61.643 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 220.19 Mbit/s
95th percentile per-packet one-way delay: 61.914 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 95.36 Mbit/s
95th percentile per-packet one-way delay: 60.537 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 4.93 Mbit/s
95th percentile per-packet one-way delay: 60.236 ms
Loss rate: 4.00%

Run 6: Report of TCP Cubic — Data Link

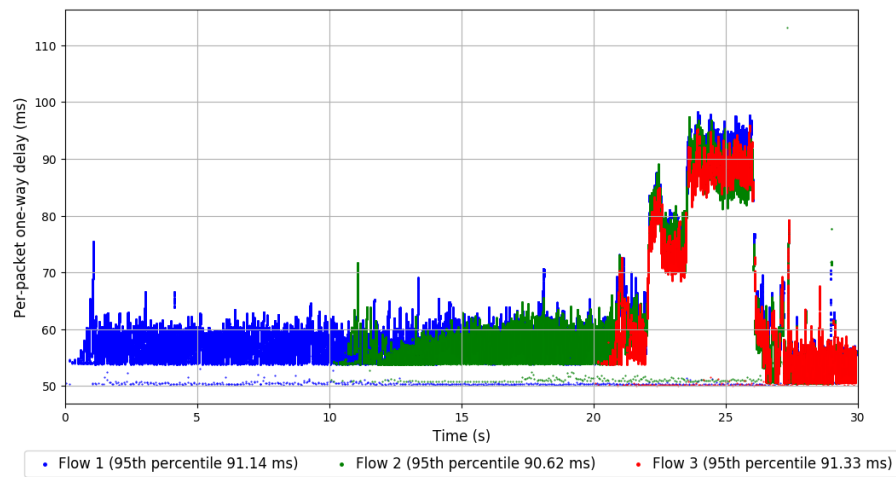
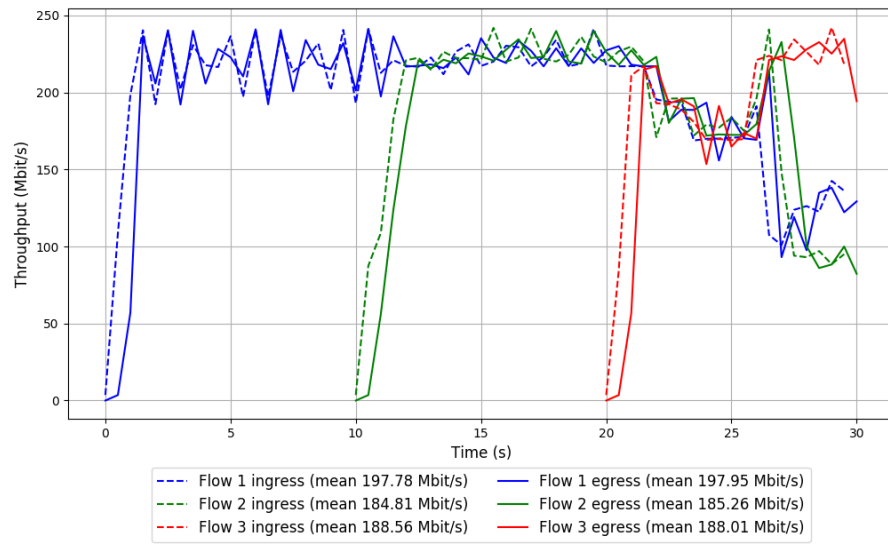


Run 7: Statistics of TCP Cubic

Start at: 2018-06-21 00:16:16
End at: 2018-06-21 00:16:46
Local clock offset: 0.058 ms
Remote clock offset: -0.468 ms

Below is generated by plot.py at 2018-06-21 02:22:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 383.11 Mbit/s
95th percentile per-packet one-way delay: 91.007 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 197.95 Mbit/s
95th percentile per-packet one-way delay: 91.142 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 185.26 Mbit/s
95th percentile per-packet one-way delay: 90.625 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 188.01 Mbit/s
95th percentile per-packet one-way delay: 91.326 ms
Loss rate: 1.29%

Run 7: Report of TCP Cubic — Data Link

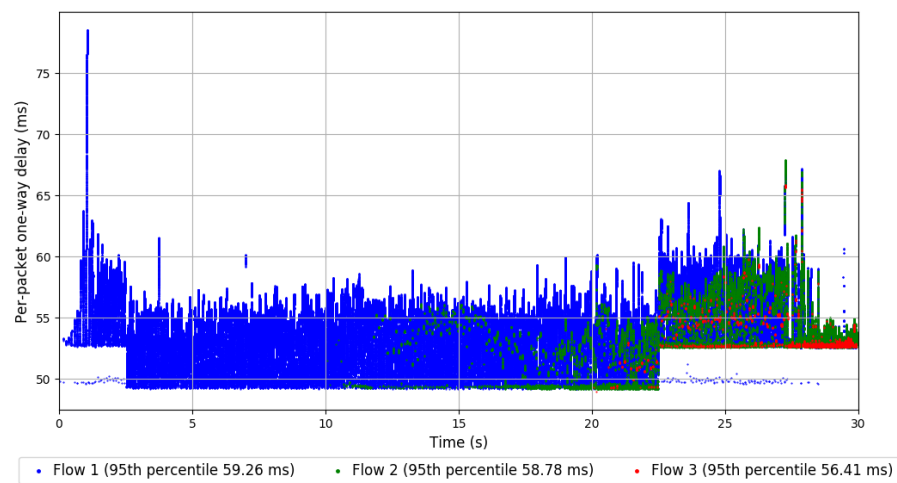
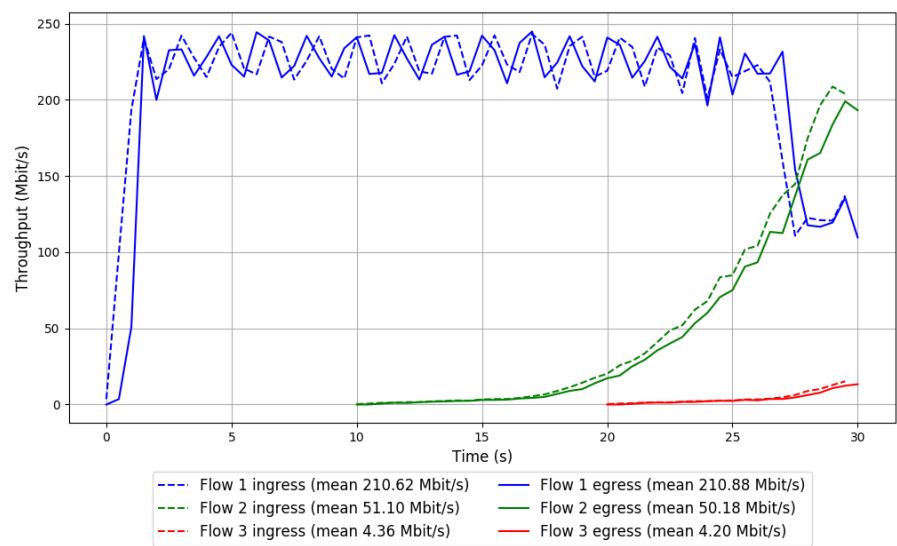


Run 8: Statistics of TCP Cubic

Start at: 2018-06-21 00:39:40
End at: 2018-06-21 00:40:10
Local clock offset: 0.045 ms
Remote clock offset: 0.651 ms

Below is generated by plot.py at 2018-06-21 02:22:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 245.64 Mbit/s
95th percentile per-packet one-way delay: 59.199 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 210.88 Mbit/s
95th percentile per-packet one-way delay: 59.255 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 50.18 Mbit/s
95th percentile per-packet one-way delay: 58.776 ms
Loss rate: 2.30%
-- Flow 3:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 56.414 ms
Loss rate: 4.54%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-06-21 01:02:42

End at: 2018-06-21 01:03:12

Local clock offset: 0.103 ms

Remote clock offset: 1.197 ms

Below is generated by plot.py at 2018-06-21 02:23:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 398.77 Mbit/s

95th percentile per-packet one-way delay: 65.903 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 221.01 Mbit/s

95th percentile per-packet one-way delay: 65.271 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 217.75 Mbit/s

95th percentile per-packet one-way delay: 64.776 ms

Loss rate: 0.55%

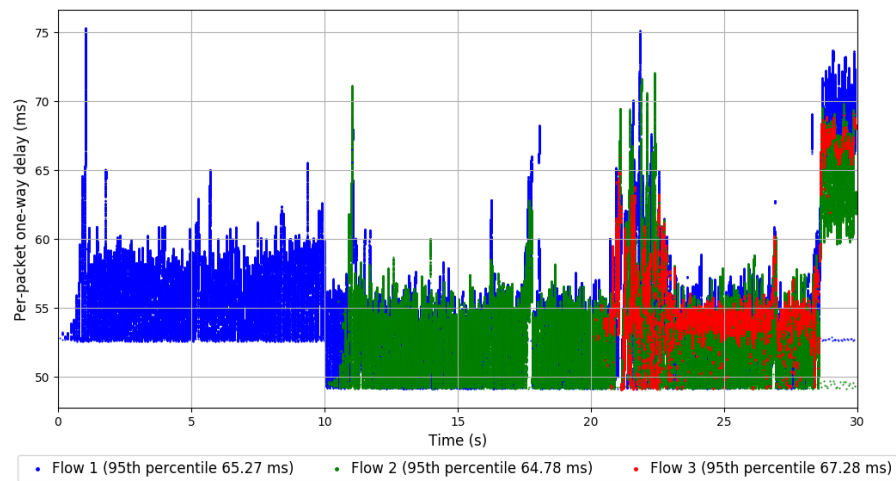
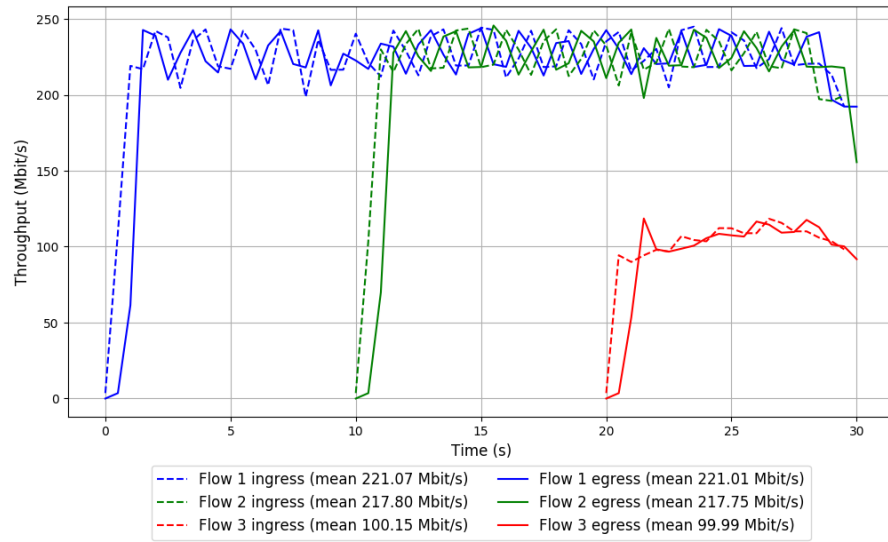
-- Flow 3:

Average throughput: 99.99 Mbit/s

95th percentile per-packet one-way delay: 67.275 ms

Loss rate: 1.21%

Run 9: Report of TCP Cubic — Data Link

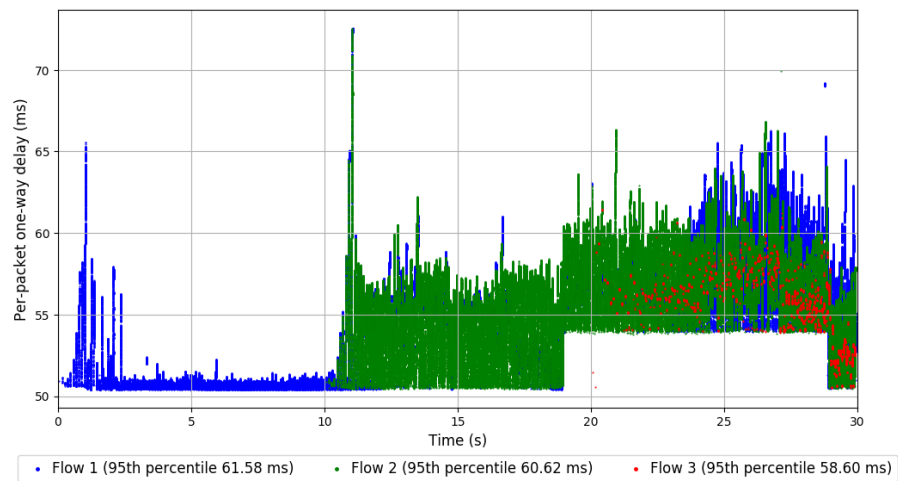
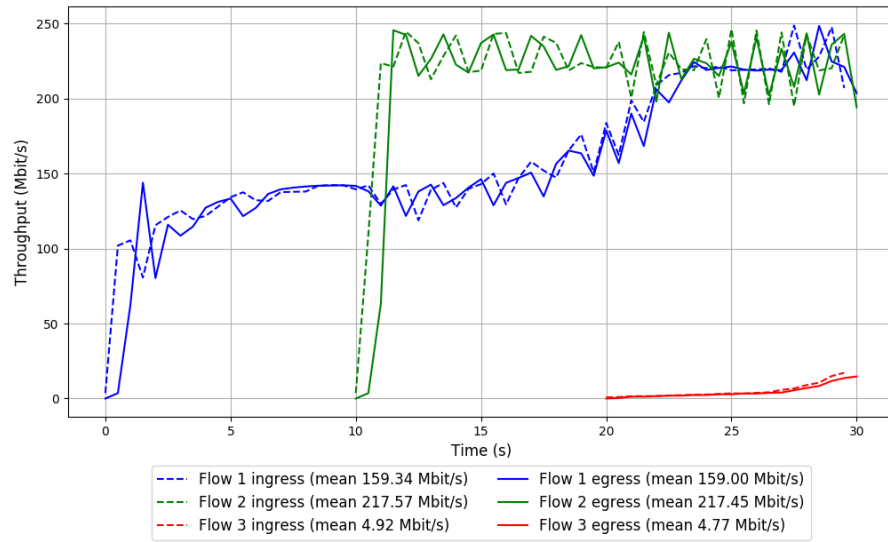


Run 10: Statistics of TCP Cubic

Start at: 2018-06-21 01:25:53
End at: 2018-06-21 01:26:23
Local clock offset: -0.029 ms
Remote clock offset: -0.238 ms

Below is generated by plot.py at 2018-06-21 02:23:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 305.14 Mbit/s
95th percentile per-packet one-way delay: 61.220 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 159.00 Mbit/s
95th percentile per-packet one-way delay: 61.582 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 217.45 Mbit/s
95th percentile per-packet one-way delay: 60.616 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 4.77 Mbit/s
95th percentile per-packet one-way delay: 58.604 ms
Loss rate: 4.23%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-06-20 21:56:36

End at: 2018-06-20 21:57:06

Local clock offset: -0.275 ms

Remote clock offset: 0.069 ms

Below is generated by plot.py at 2018-06-21 02:44:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 1326.45 Mbit/s

95th percentile per-packet one-way delay: 176.719 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 695.97 Mbit/s

95th percentile per-packet one-way delay: 177.782 ms

Loss rate: 2.34%

-- Flow 2:

Average throughput: 713.07 Mbit/s

95th percentile per-packet one-way delay: 110.031 ms

Loss rate: 0.87%

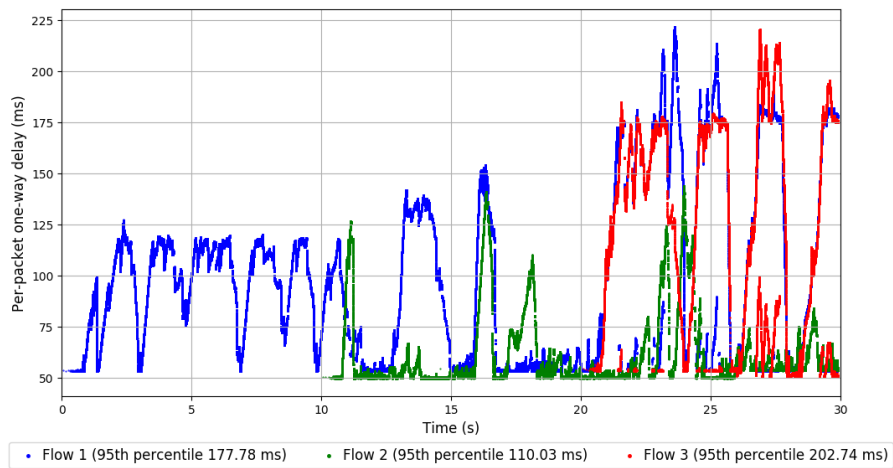
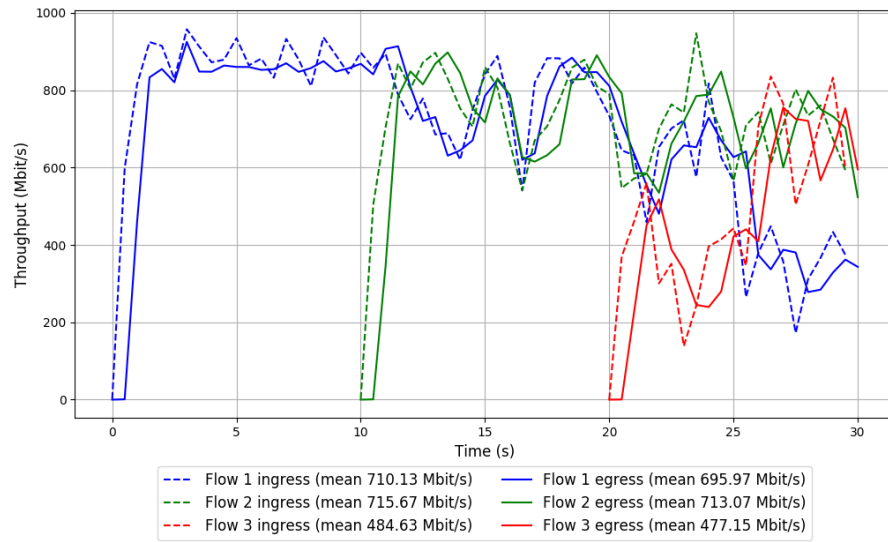
-- Flow 3:

Average throughput: 477.15 Mbit/s

95th percentile per-packet one-way delay: 202.739 ms

Loss rate: 2.59%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-06-20 22:19:45

End at: 2018-06-20 22:20:15

Local clock offset: -0.031 ms

Remote clock offset: 0.452 ms

Below is generated by plot.py at 2018-06-21 02:45:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 1355.46 Mbit/s

95th percentile per-packet one-way delay: 121.660 ms

Loss rate: 1.76%

-- Flow 1:

Average throughput: 730.94 Mbit/s

95th percentile per-packet one-way delay: 125.416 ms

Loss rate: 2.08%

-- Flow 2:

Average throughput: 658.31 Mbit/s

95th percentile per-packet one-way delay: 123.430 ms

Loss rate: 1.24%

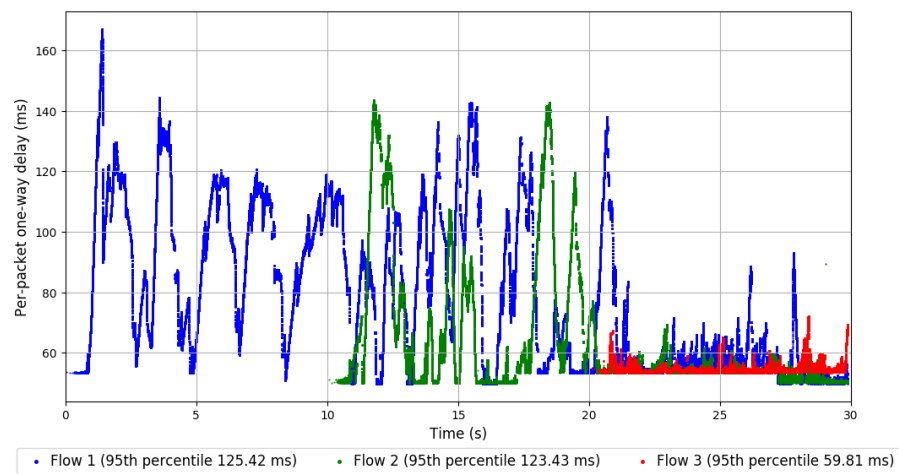
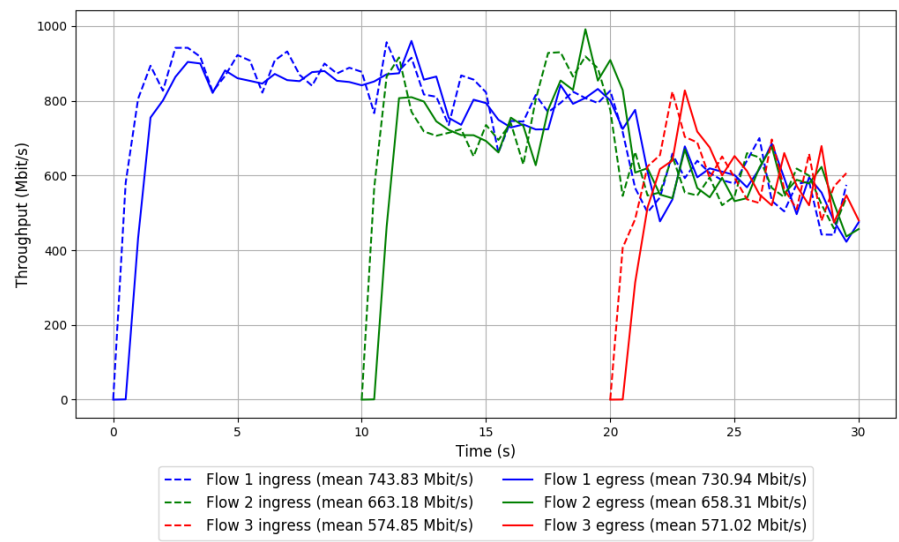
-- Flow 3:

Average throughput: 571.02 Mbit/s

95th percentile per-packet one-way delay: 59.806 ms

Loss rate: 1.74%

Run 2: Report of FillP — Data Link

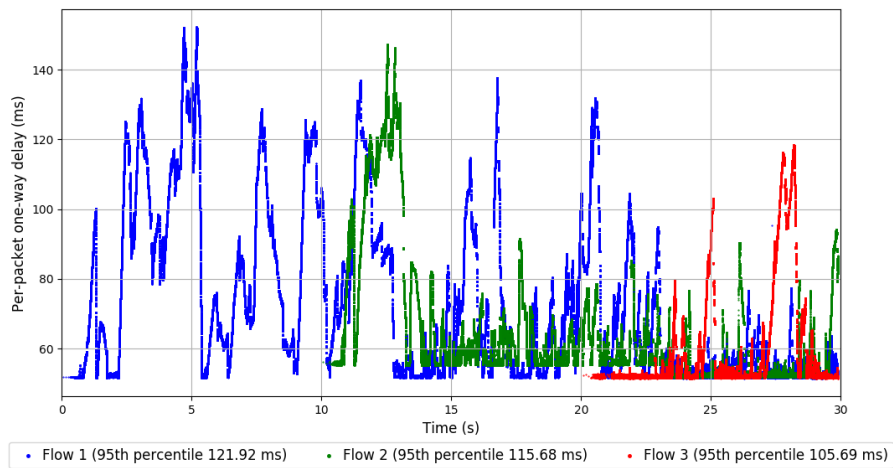
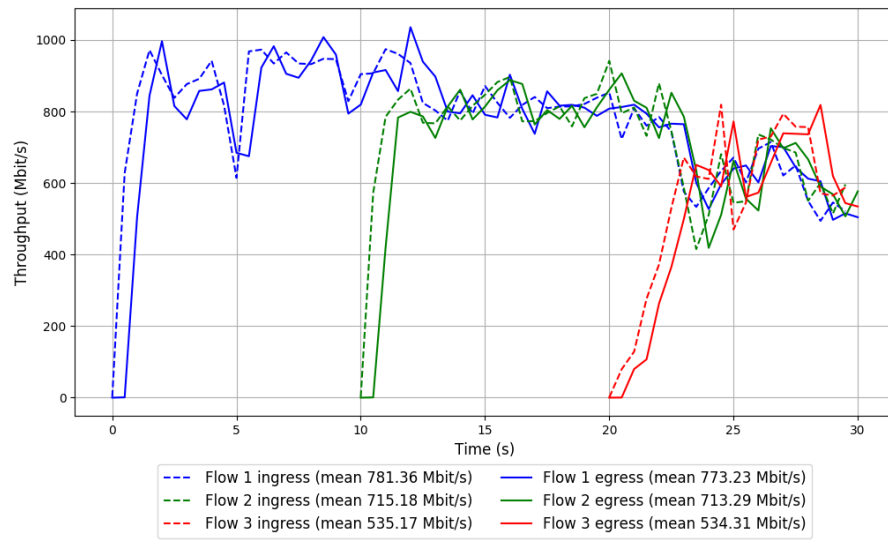


Run 3: Statistics of FillP

Start at: 2018-06-20 22:42:39
End at: 2018-06-20 22:43:09
Local clock offset: -0.002 ms
Remote clock offset: -1.158 ms

Below is generated by plot.py at 2018-06-21 02:47:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 1422.47 Mbit/s
95th percentile per-packet one-way delay: 119.493 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 773.23 Mbit/s
95th percentile per-packet one-way delay: 121.917 ms
Loss rate: 1.39%
-- Flow 2:
Average throughput: 713.29 Mbit/s
95th percentile per-packet one-way delay: 115.677 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 534.31 Mbit/s
95th percentile per-packet one-way delay: 105.693 ms
Loss rate: 1.15%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-06-20 23:05:27

End at: 2018-06-20 23:05:57

Local clock offset: 0.104 ms

Remote clock offset: 0.162 ms

Below is generated by plot.py at 2018-06-21 02:47:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 1330.65 Mbit/s

95th percentile per-packet one-way delay: 215.930 ms

Loss rate: 3.83%

-- Flow 1:

Average throughput: 716.78 Mbit/s

95th percentile per-packet one-way delay: 219.314 ms

Loss rate: 3.36%

-- Flow 2:

Average throughput: 665.92 Mbit/s

95th percentile per-packet one-way delay: 218.637 ms

Loss rate: 4.04%

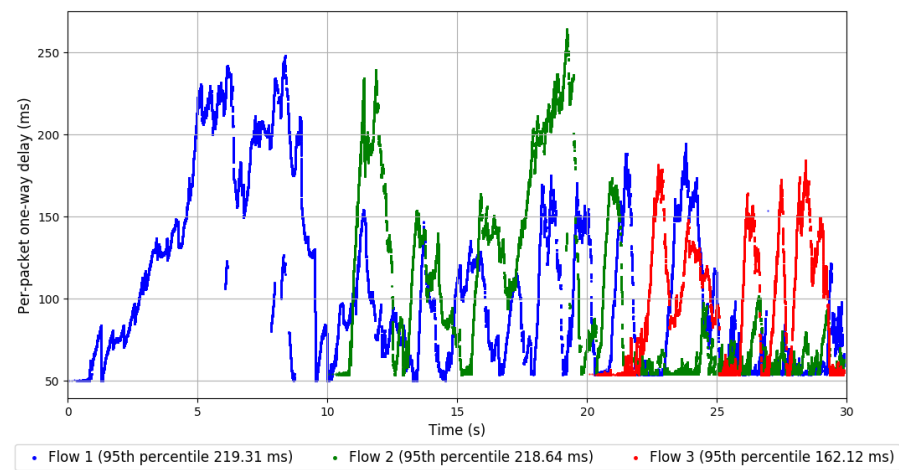
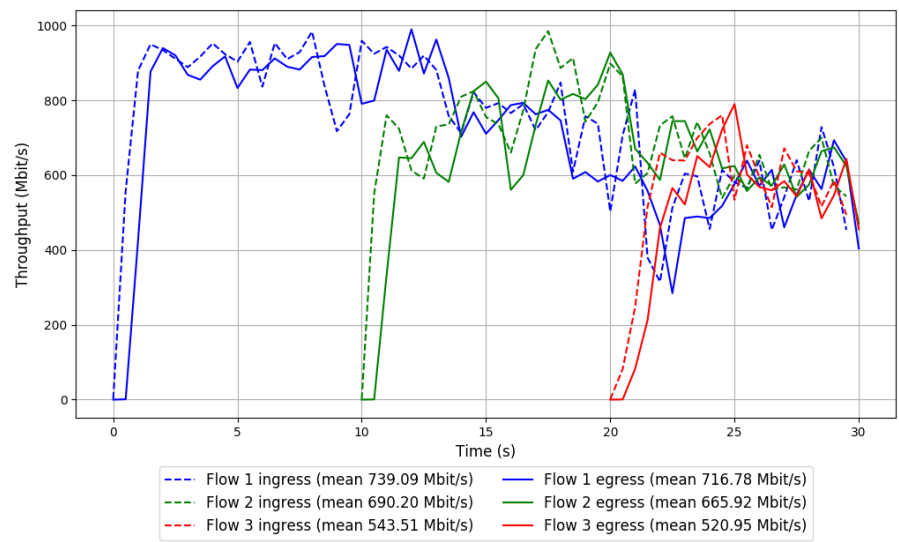
-- Flow 3:

Average throughput: 520.95 Mbit/s

95th percentile per-packet one-way delay: 162.115 ms

Loss rate: 5.19%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-06-20 23:28:22

End at: 2018-06-20 23:28:52

Local clock offset: 0.011 ms

Remote clock offset: 0.325 ms

Below is generated by plot.py at 2018-06-21 02:49:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 1414.13 Mbit/s

95th percentile per-packet one-way delay: 195.182 ms

Loss rate: 3.64%

-- Flow 1:

Average throughput: 737.85 Mbit/s

95th percentile per-packet one-way delay: 208.259 ms

Loss rate: 3.44%

-- Flow 2:

Average throughput: 720.89 Mbit/s

95th percentile per-packet one-way delay: 141.736 ms

Loss rate: 2.56%

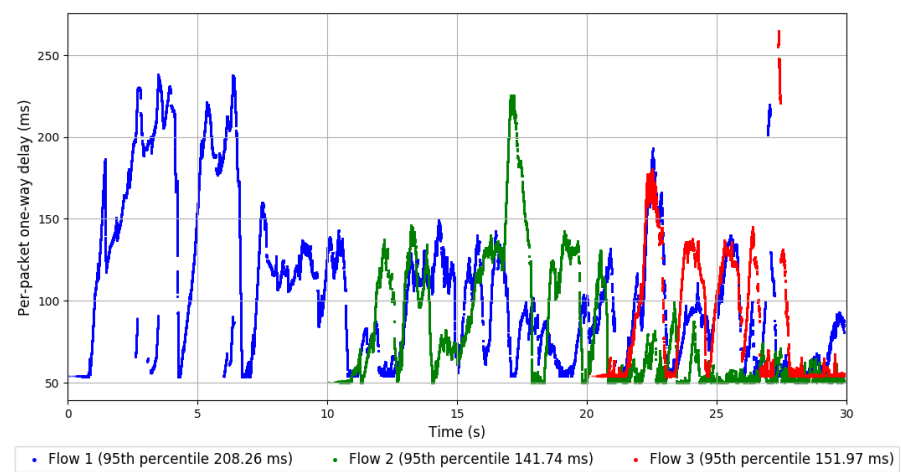
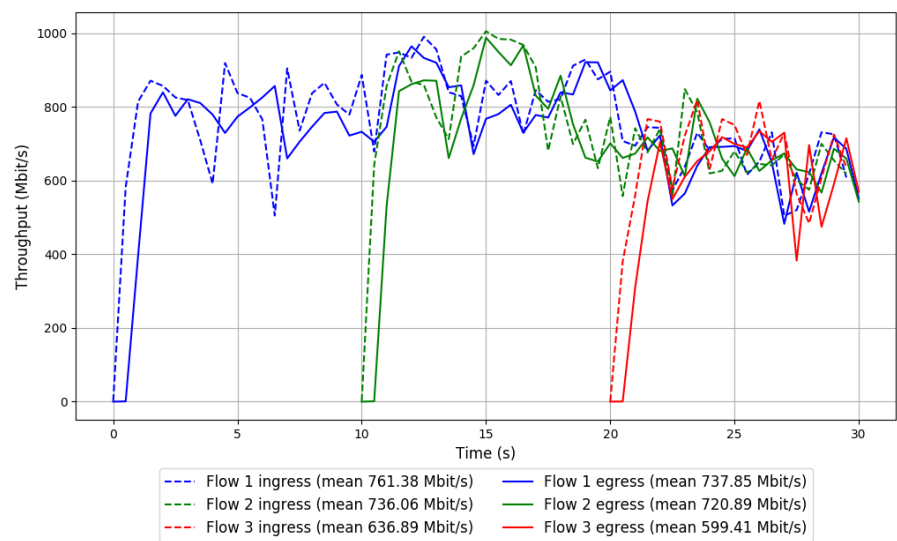
-- Flow 3:

Average throughput: 599.41 Mbit/s

95th percentile per-packet one-way delay: 151.968 ms

Loss rate: 6.90%

Run 5: Report of FillP — Data Link

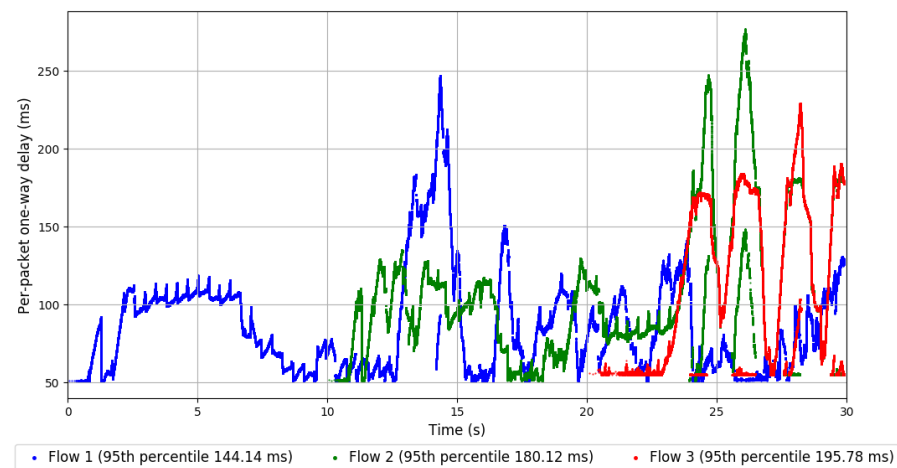
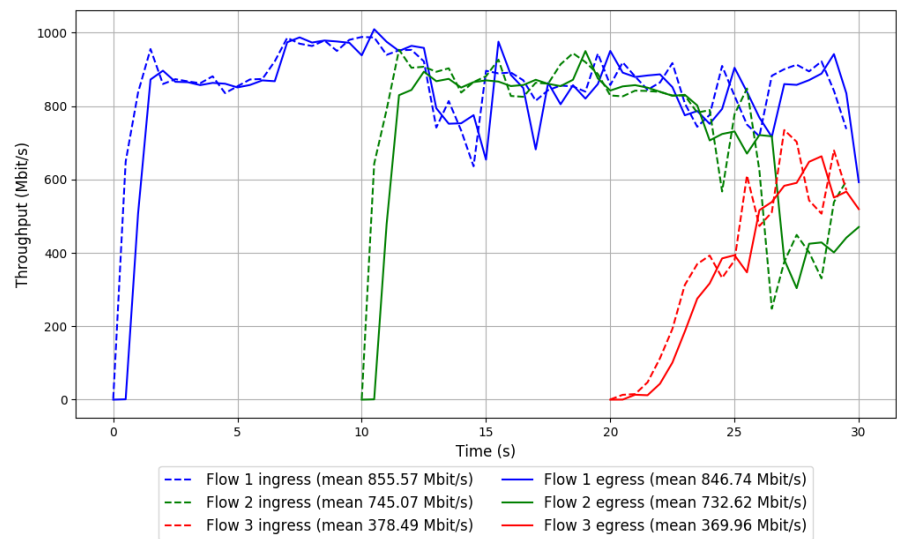


Run 6: Statistics of FillP

Start at: 2018-06-20 23:51:07
End at: 2018-06-20 23:51:37
Local clock offset: -0.224 ms
Remote clock offset: -1.227 ms

Below is generated by plot.py at 2018-06-21 02:52:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 1455.11 Mbit/s
95th percentile per-packet one-way delay: 176.823 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 846.74 Mbit/s
95th percentile per-packet one-way delay: 144.142 ms
Loss rate: 1.38%
-- Flow 2:
Average throughput: 732.62 Mbit/s
95th percentile per-packet one-way delay: 180.117 ms
Loss rate: 2.19%
-- Flow 3:
Average throughput: 369.96 Mbit/s
95th percentile per-packet one-way delay: 195.783 ms
Loss rate: 3.33%

Run 6: Report of FillP — Data Link

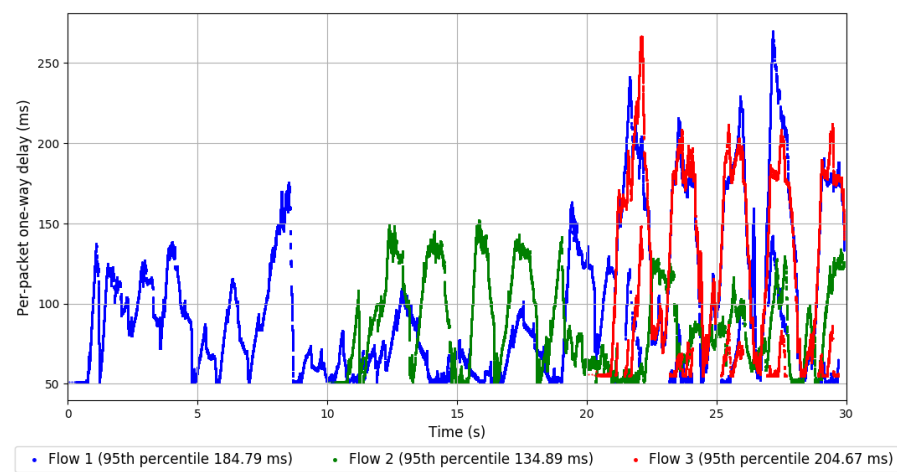
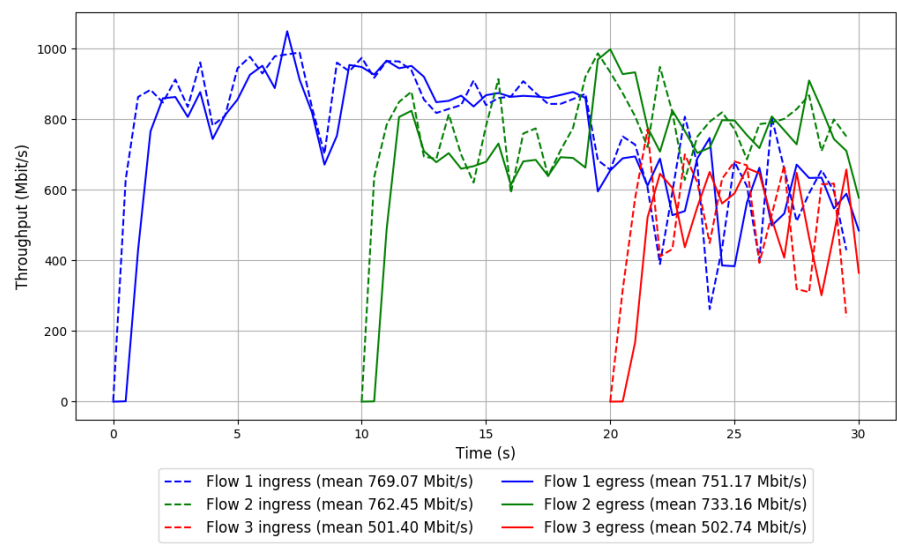


Run 7: Statistics of FillP

Start at: 2018-06-21 00:14:11
End at: 2018-06-21 00:14:41
Local clock offset: -0.019 ms
Remote clock offset: -1.246 ms

Below is generated by plot.py at 2018-06-21 02:52:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 1403.96 Mbit/s
95th percentile per-packet one-way delay: 184.899 ms
Loss rate: 3.04%
-- Flow 1:
Average throughput: 751.17 Mbit/s
95th percentile per-packet one-way delay: 184.795 ms
Loss rate: 2.67%
-- Flow 2:
Average throughput: 733.16 Mbit/s
95th percentile per-packet one-way delay: 134.892 ms
Loss rate: 4.34%
-- Flow 3:
Average throughput: 502.74 Mbit/s
95th percentile per-packet one-way delay: 204.669 ms
Loss rate: 0.80%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-06-21 00:37:38

End at: 2018-06-21 00:38:08

Local clock offset: 0.26 ms

Remote clock offset: -0.79 ms

Below is generated by plot.py at 2018-06-21 02:52:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 1321.61 Mbit/s

95th percentile per-packet one-way delay: 236.136 ms

Loss rate: 4.76%

-- Flow 1:

Average throughput: 757.37 Mbit/s

95th percentile per-packet one-way delay: 242.566 ms

Loss rate: 3.87%

-- Flow 2:

Average throughput: 636.25 Mbit/s

95th percentile per-packet one-way delay: 211.677 ms

Loss rate: 6.14%

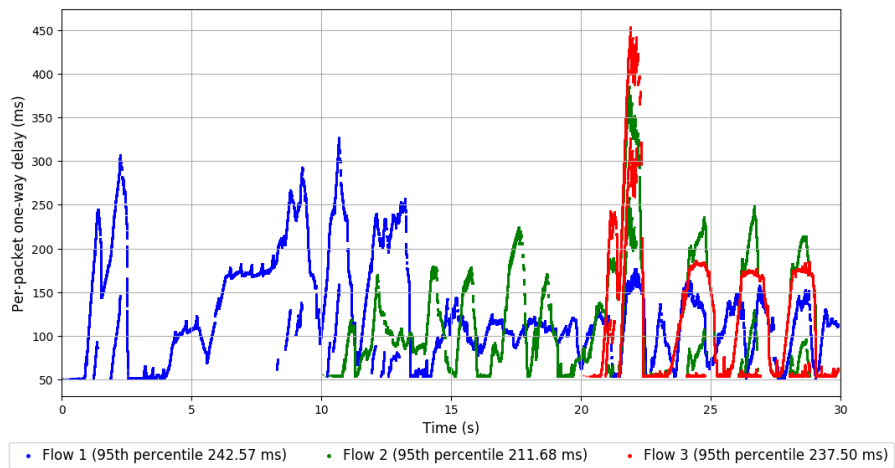
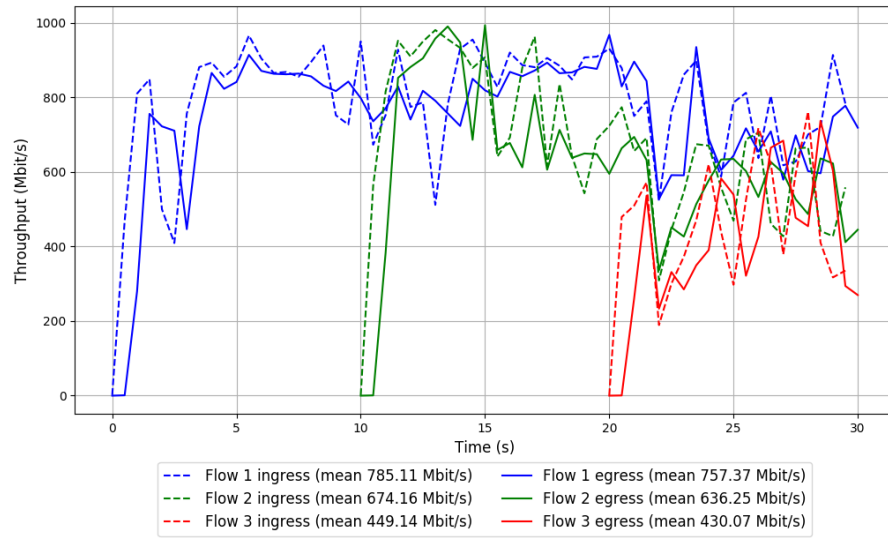
-- Flow 3:

Average throughput: 430.07 Mbit/s

95th percentile per-packet one-way delay: 237.497 ms

Loss rate: 5.29%

Run 8: Report of FillP — Data Link

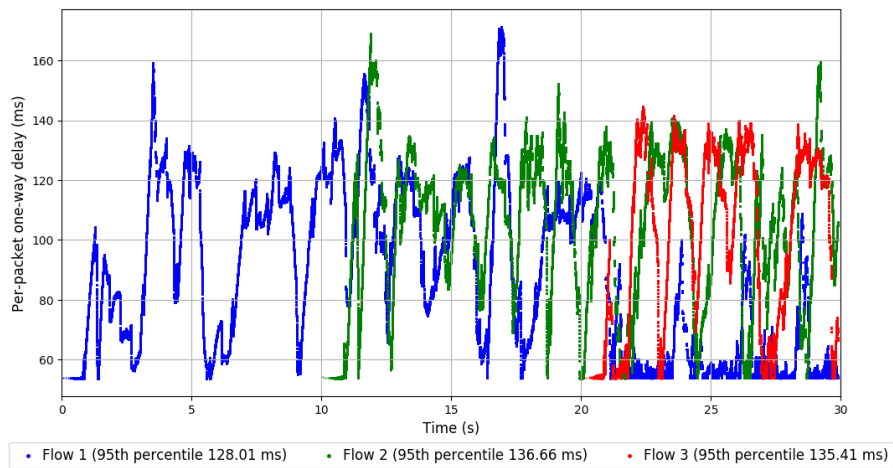
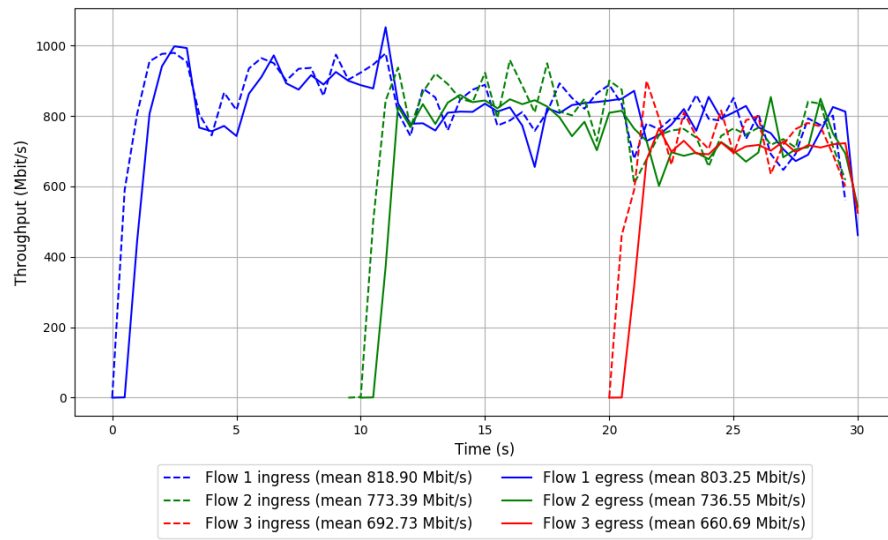


Run 9: Statistics of FillP

Start at: 2018-06-21 01:00:34
End at: 2018-06-21 01:01:04
Local clock offset: 0.192 ms
Remote clock offset: -0.143 ms

Below is generated by plot.py at 2018-06-21 03:16:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 1509.89 Mbit/s
95th percentile per-packet one-way delay: 134.038 ms
Loss rate: 3.76%
-- Flow 1:
Average throughput: 803.25 Mbit/s
95th percentile per-packet one-way delay: 128.006 ms
Loss rate: 2.26%
-- Flow 2:
Average throughput: 736.55 Mbit/s
95th percentile per-packet one-way delay: 136.662 ms
Loss rate: 5.28%
-- Flow 3:
Average throughput: 660.69 Mbit/s
95th percentile per-packet one-way delay: 135.412 ms
Loss rate: 5.67%

Run 9: Report of FillP — Data Link

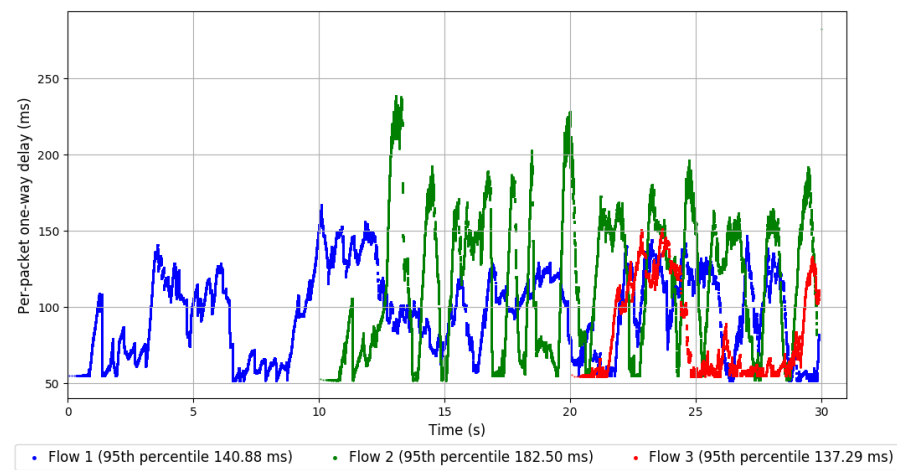
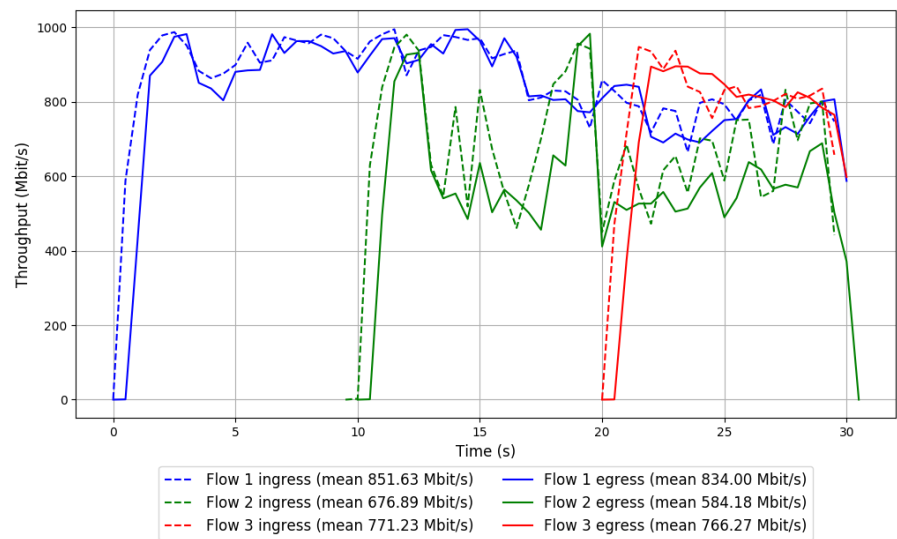


Run 10: Statistics of FillP

Start at: 2018-06-21 01:23:46
End at: 2018-06-21 01:24:16
Local clock offset: 0.069 ms
Remote clock offset: -1.327 ms

Below is generated by plot.py at 2018-06-21 03:16:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 1471.44 Mbit/s
95th percentile per-packet one-way delay: 154.896 ms
Loss rate: 5.54%
-- Flow 1:
Average throughput: 834.00 Mbit/s
95th percentile per-packet one-way delay: 140.880 ms
Loss rate: 2.41%
-- Flow 2:
Average throughput: 584.18 Mbit/s
95th percentile per-packet one-way delay: 182.499 ms
Loss rate: 13.65%
-- Flow 3:
Average throughput: 766.27 Mbit/s
95th percentile per-packet one-way delay: 137.286 ms
Loss rate: 1.68%

Run 10: Report of FillP — Data Link

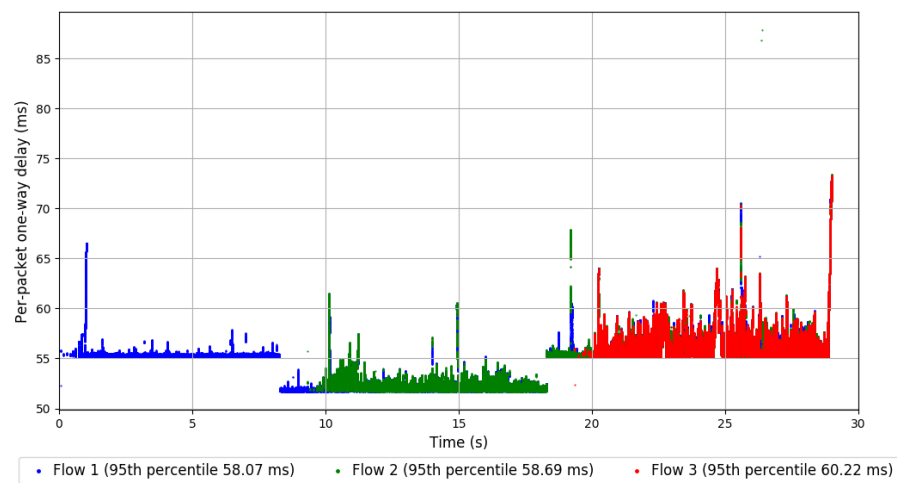
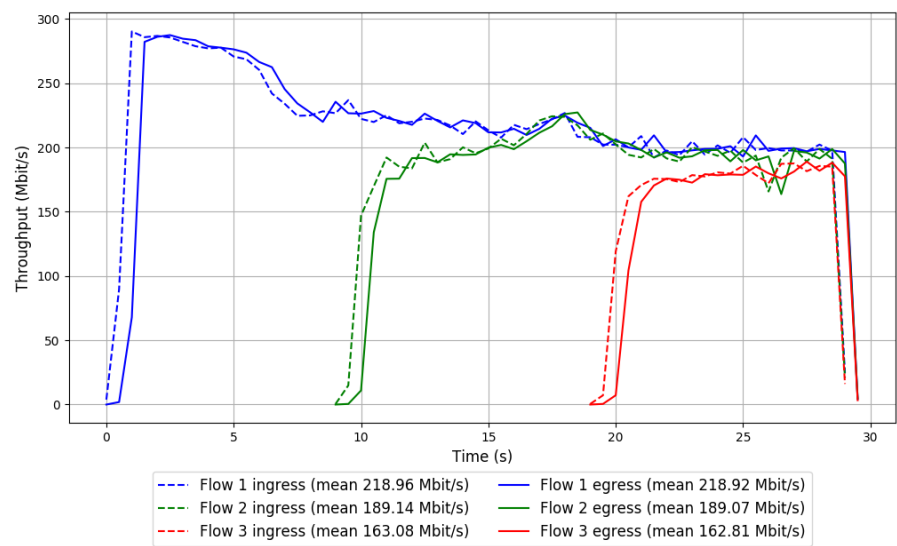


```
Run 1: Statistics of Indigo

Start at: 2018-06-20 22:11:43
End at: 2018-06-20 22:12:13
Local clock offset: -0.003 ms
Remote clock offset: -1.193 ms

# Below is generated by plot.py at 2018-06-21 03:16:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 401.77 Mbit/s
95th percentile per-packet one-way delay: 58.616 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 218.92 Mbit/s
95th percentile per-packet one-way delay: 58.069 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 189.07 Mbit/s
95th percentile per-packet one-way delay: 58.687 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 162.81 Mbit/s
95th percentile per-packet one-way delay: 60.221 ms
Loss rate: 1.22%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-20 22:34:36

End at: 2018-06-20 22:35:06

Local clock offset: 0.015 ms

Remote clock offset: 0.466 ms

Below is generated by plot.py at 2018-06-21 03:16:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 414.54 Mbit/s

95th percentile per-packet one-way delay: 55.970 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 226.69 Mbit/s

95th percentile per-packet one-way delay: 54.668 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 205.45 Mbit/s

95th percentile per-packet one-way delay: 56.686 ms

Loss rate: 0.54%

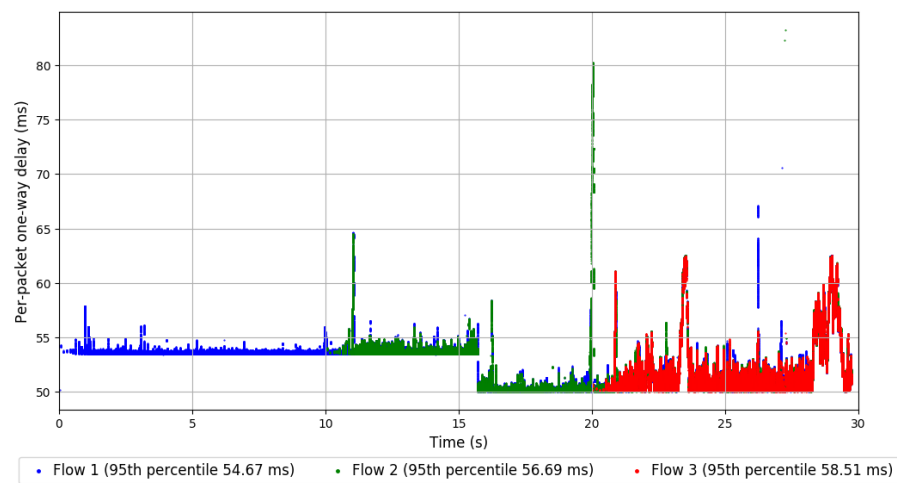
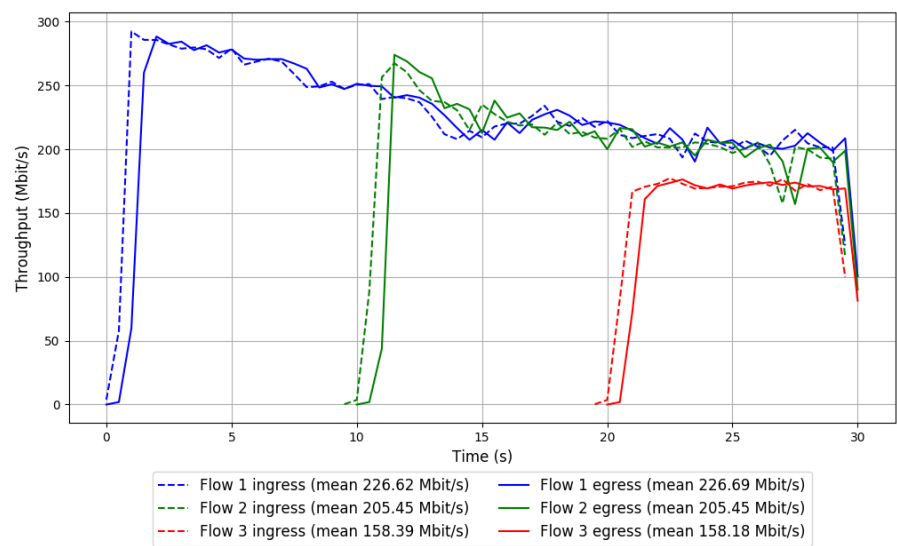
-- Flow 3:

Average throughput: 158.18 Mbit/s

95th percentile per-packet one-way delay: 58.514 ms

Loss rate: 1.19%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-06-20 22:57:27

End at: 2018-06-20 22:57:57

Local clock offset: 0.213 ms

Remote clock offset: 0.064 ms

Below is generated by plot.py at 2018-06-21 03:16:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 394.15 Mbit/s

95th percentile per-packet one-way delay: 57.493 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 205.46 Mbit/s

95th percentile per-packet one-way delay: 56.964 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 205.11 Mbit/s

95th percentile per-packet one-way delay: 57.527 ms

Loss rate: 0.50%

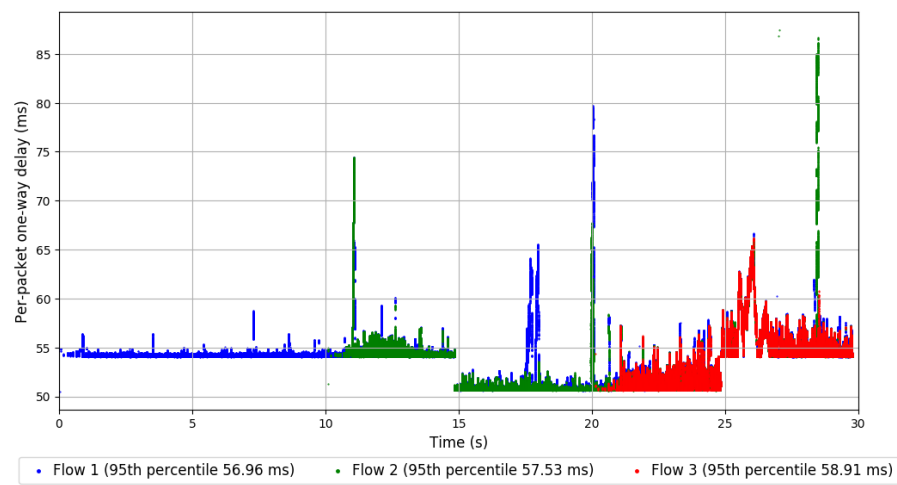
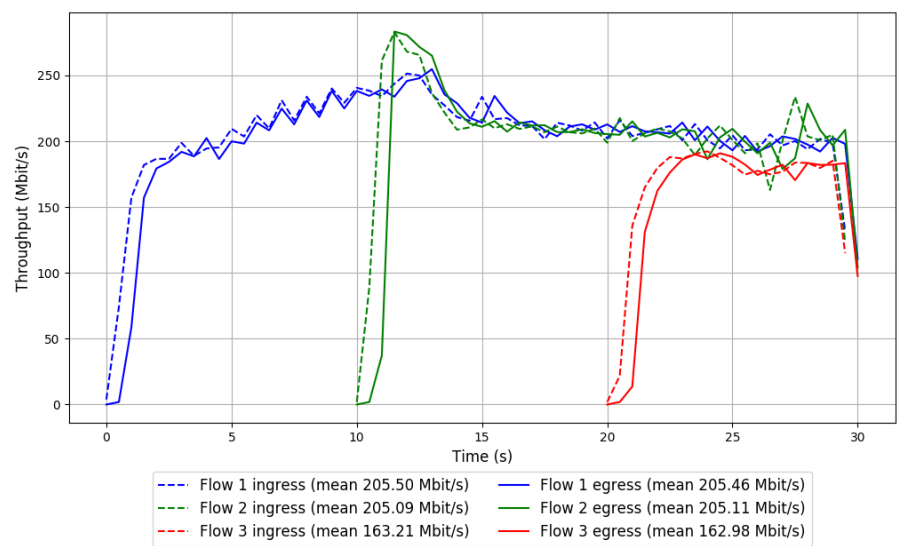
-- Flow 3:

Average throughput: 162.98 Mbit/s

95th percentile per-packet one-way delay: 58.905 ms

Loss rate: 1.20%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-06-20 23:20:20

End at: 2018-06-20 23:20:50

Local clock offset: 0.08 ms

Remote clock offset: 0.362 ms

Below is generated by plot.py at 2018-06-21 03:16:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 389.97 Mbit/s

95th percentile per-packet one-way delay: 77.049 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 200.40 Mbit/s

95th percentile per-packet one-way delay: 74.773 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 199.78 Mbit/s

95th percentile per-packet one-way delay: 76.777 ms

Loss rate: 0.50%

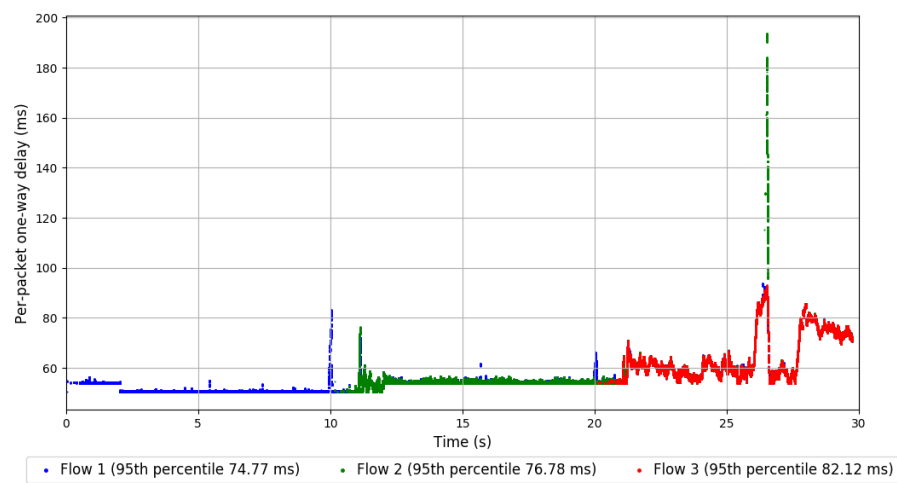
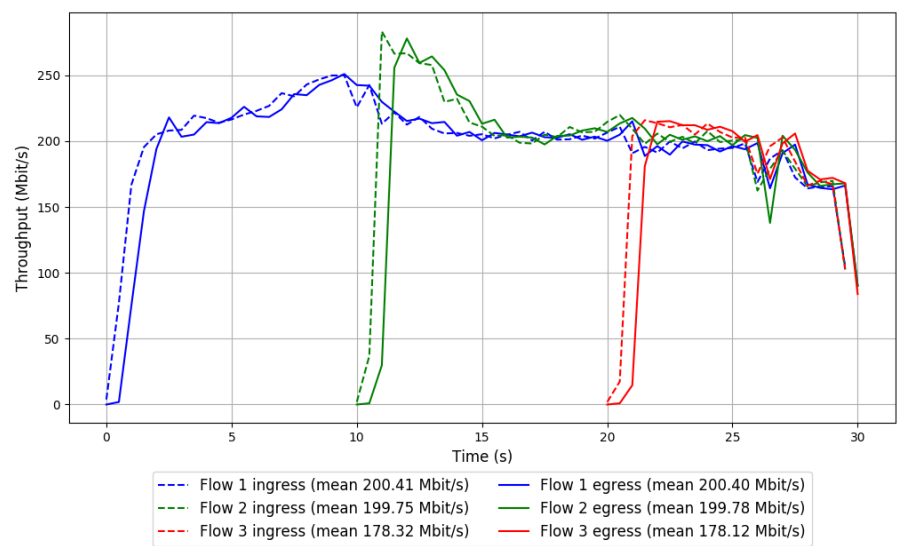
-- Flow 3:

Average throughput: 178.12 Mbit/s

95th percentile per-packet one-way delay: 82.119 ms

Loss rate: 1.20%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-06-20 23:43:07

End at: 2018-06-20 23:43:37

Local clock offset: -0.079 ms

Remote clock offset: 1.391 ms

Below is generated by plot.py at 2018-06-21 03:16:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 355.79 Mbit/s

95th percentile per-packet one-way delay: 66.972 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 177.59 Mbit/s

95th percentile per-packet one-way delay: 64.501 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 190.26 Mbit/s

95th percentile per-packet one-way delay: 67.455 ms

Loss rate: 0.55%

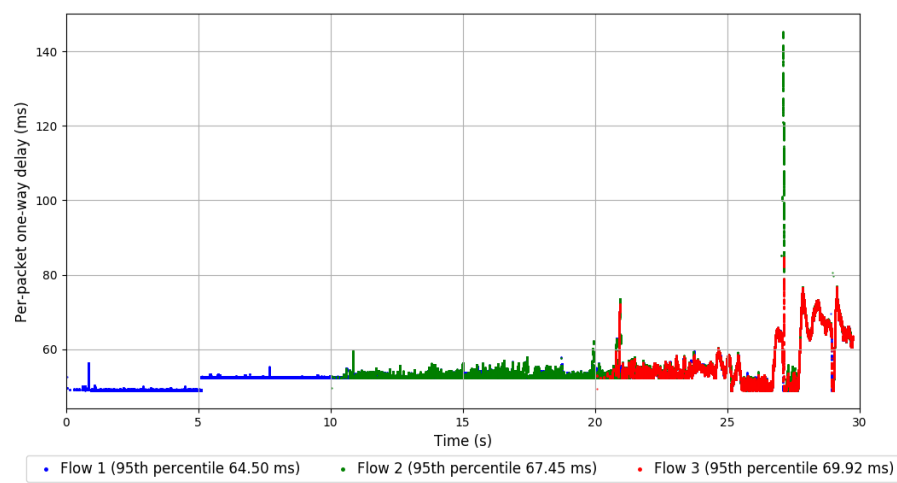
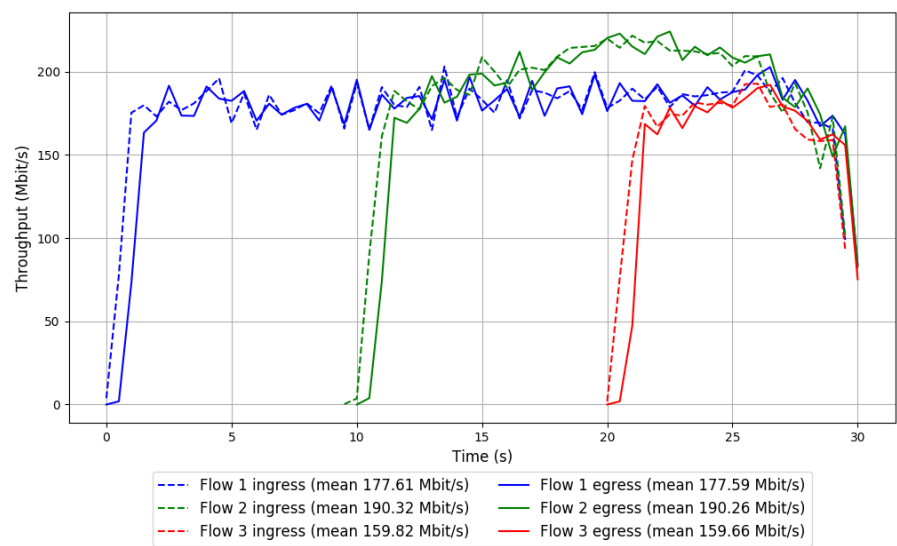
-- Flow 3:

Average throughput: 159.66 Mbit/s

95th percentile per-packet one-way delay: 69.917 ms

Loss rate: 1.15%

Run 5: Report of Indigo — Data Link

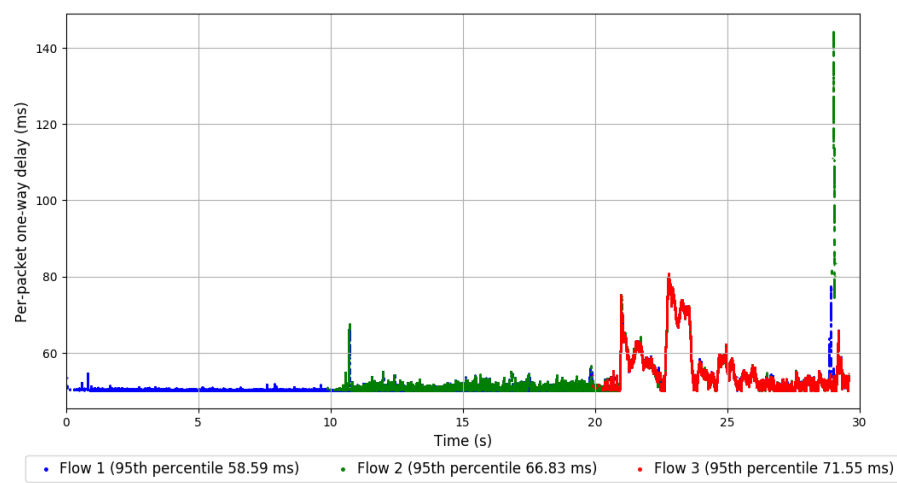
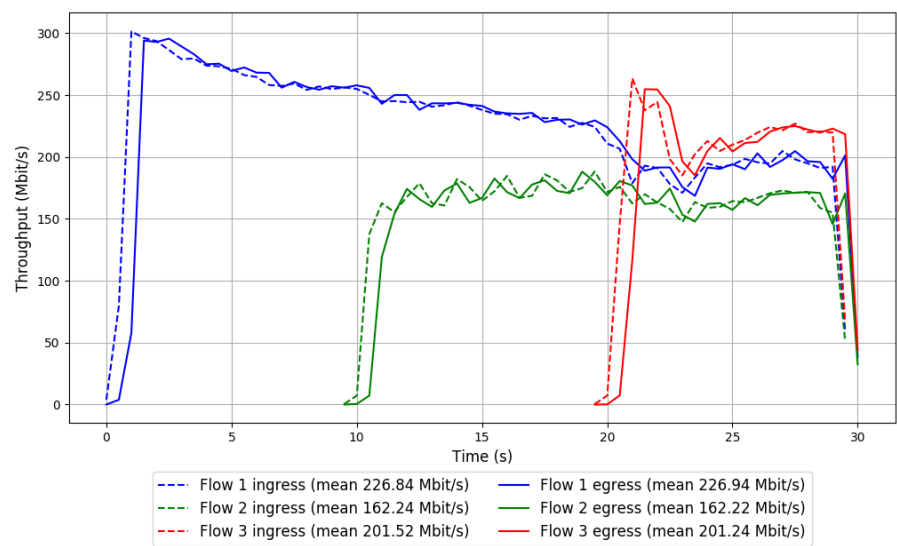


Run 6: Statistics of Indigo

Start at: 2018-06-21 00:06:10
End at: 2018-06-21 00:06:40
Local clock offset: -0.048 ms
Remote clock offset: -0.148 ms

Below is generated by plot.py at 2018-06-21 03:16:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 401.14 Mbit/s
95th percentile per-packet one-way delay: 63.795 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 226.94 Mbit/s
95th percentile per-packet one-way delay: 58.586 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 162.22 Mbit/s
95th percentile per-packet one-way delay: 66.826 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 201.24 Mbit/s
95th percentile per-packet one-way delay: 71.547 ms
Loss rate: 1.17%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-06-21 00:29:36

End at: 2018-06-21 00:30:06

Local clock offset: 0.05 ms

Remote clock offset: 0.86 ms

Below is generated by plot.py at 2018-06-21 03:16:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 424.30 Mbit/s

95th percentile per-packet one-way delay: 71.512 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 227.67 Mbit/s

95th percentile per-packet one-way delay: 56.035 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 215.10 Mbit/s

95th percentile per-packet one-way delay: 72.066 ms

Loss rate: 0.51%

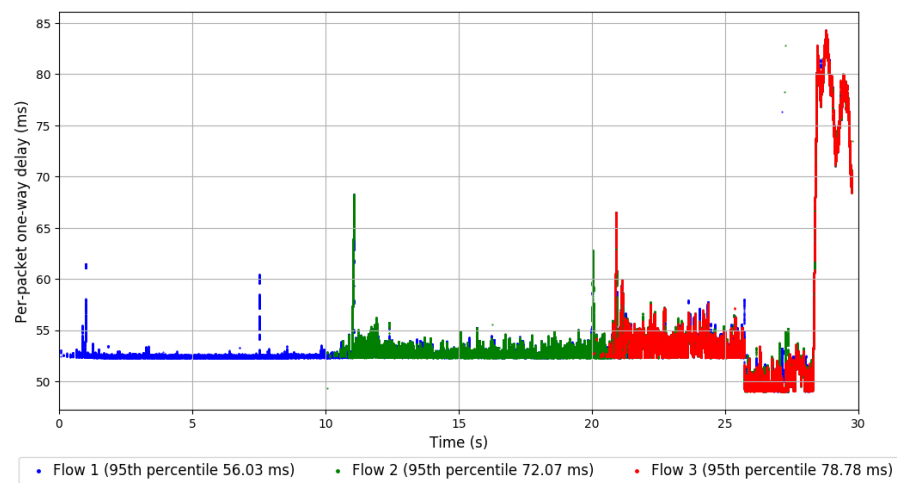
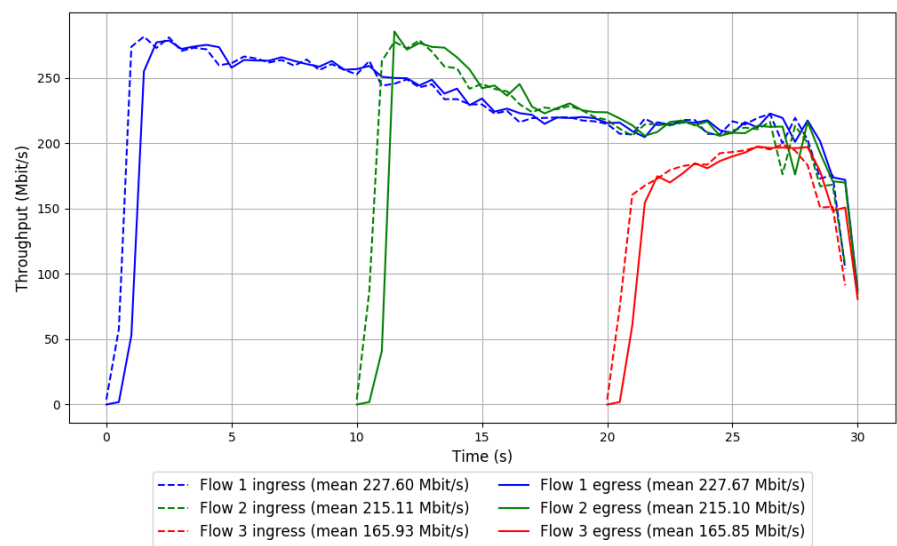
-- Flow 3:

Average throughput: 165.85 Mbit/s

95th percentile per-packet one-way delay: 78.778 ms

Loss rate: 1.13%

Run 7: Report of Indigo — Data Link

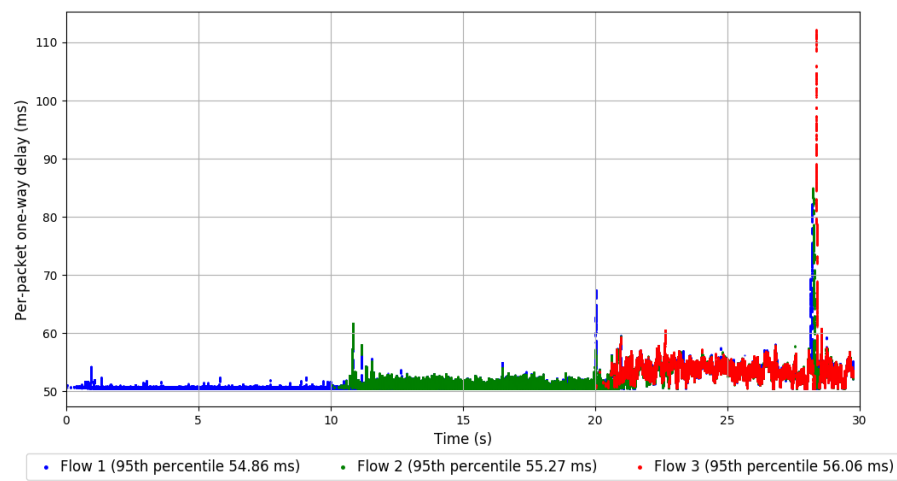
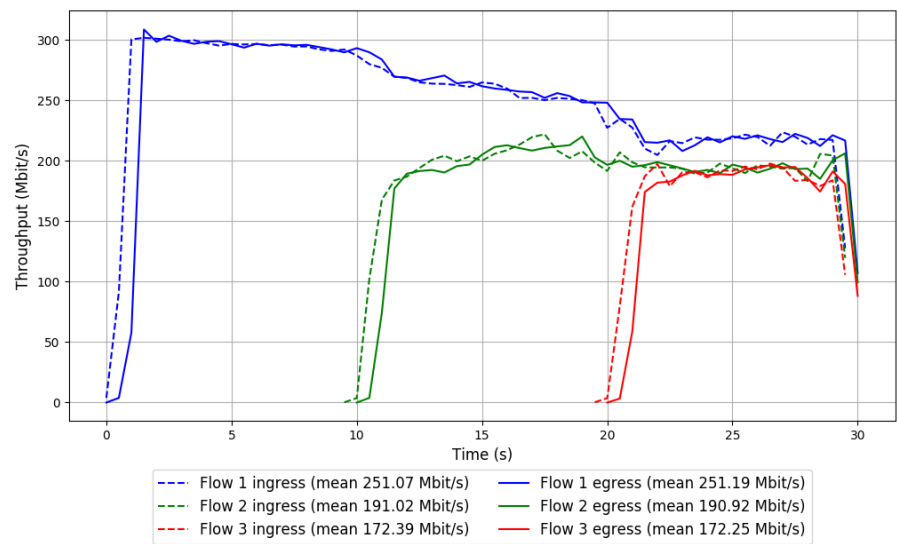


Run 8: Statistics of Indigo

Start at: 2018-06-21 00:52:32
End at: 2018-06-21 00:53:02
Local clock offset: 0.132 ms
Remote clock offset: -0.321 ms

Below is generated by plot.py at 2018-06-21 03:16:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 434.05 Mbit/s
95th percentile per-packet one-way delay: 55.276 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 251.19 Mbit/s
95th percentile per-packet one-way delay: 54.862 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 190.92 Mbit/s
95th percentile per-packet one-way delay: 55.269 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 172.25 Mbit/s
95th percentile per-packet one-way delay: 56.065 ms
Loss rate: 1.11%

Run 8: Report of Indigo — Data Link

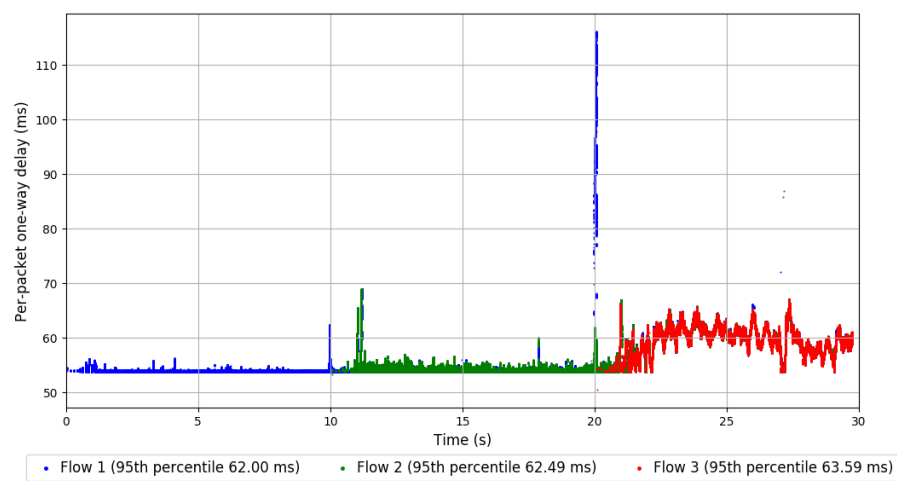
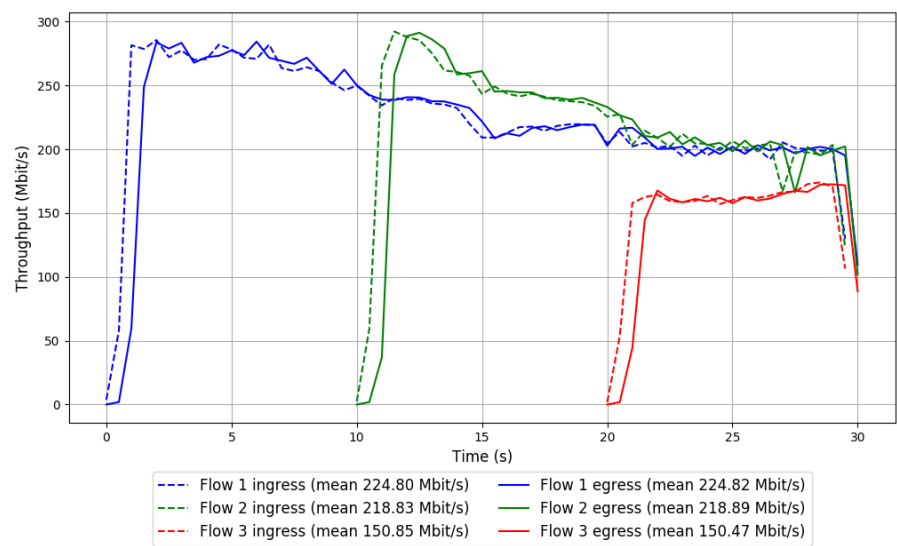


Run 9: Statistics of Indigo

Start at: 2018-06-21 01:15:46
End at: 2018-06-21 01:16:16
Local clock offset: -0.097 ms
Remote clock offset: -0.186 ms

Below is generated by plot.py at 2018-06-21 03:16:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 418.69 Mbit/s
95th percentile per-packet one-way delay: 62.462 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 224.82 Mbit/s
95th percentile per-packet one-way delay: 61.996 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 218.89 Mbit/s
95th percentile per-packet one-way delay: 62.489 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 150.47 Mbit/s
95th percentile per-packet one-way delay: 63.593 ms
Loss rate: 1.27%

Run 9: Report of Indigo — Data Link

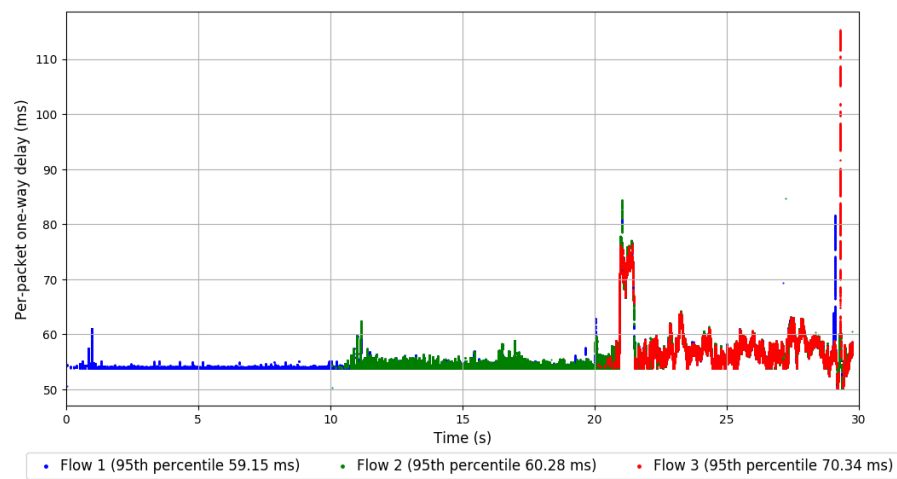
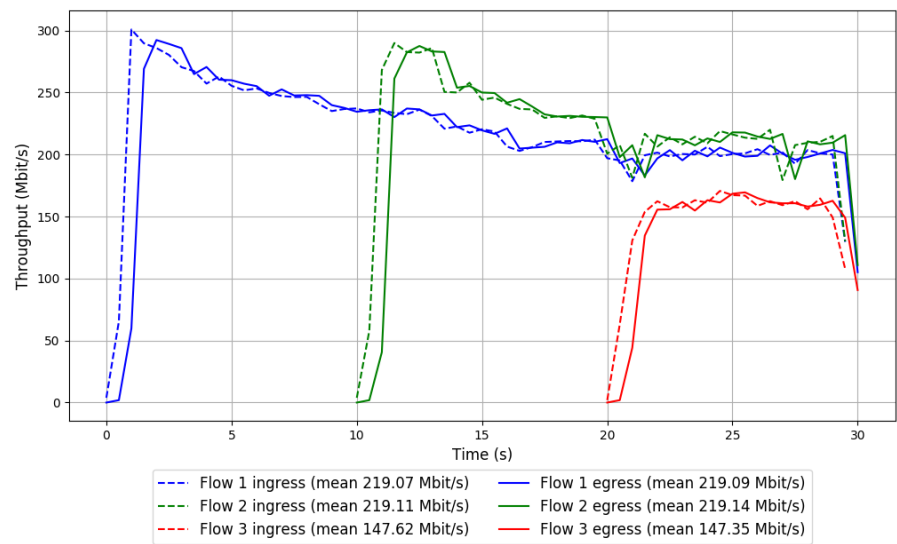


Run 10: Statistics of Indigo

Start at: 2018-06-21 01:38:53
End at: 2018-06-21 01:39:23
Local clock offset: -0.068 ms
Remote clock offset: -0.132 ms

Below is generated by plot.py at 2018-06-21 03:16:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 412.04 Mbit/s
95th percentile per-packet one-way delay: 60.174 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 219.09 Mbit/s
95th percentile per-packet one-way delay: 59.151 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 219.14 Mbit/s
95th percentile per-packet one-way delay: 60.284 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 147.35 Mbit/s
95th percentile per-packet one-way delay: 70.336 ms
Loss rate: 1.28%

Run 10: Report of Indigo — Data Link

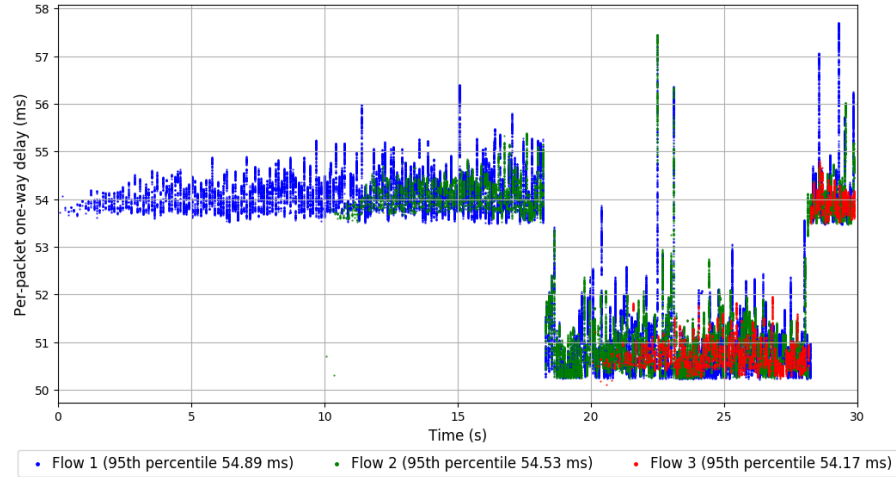
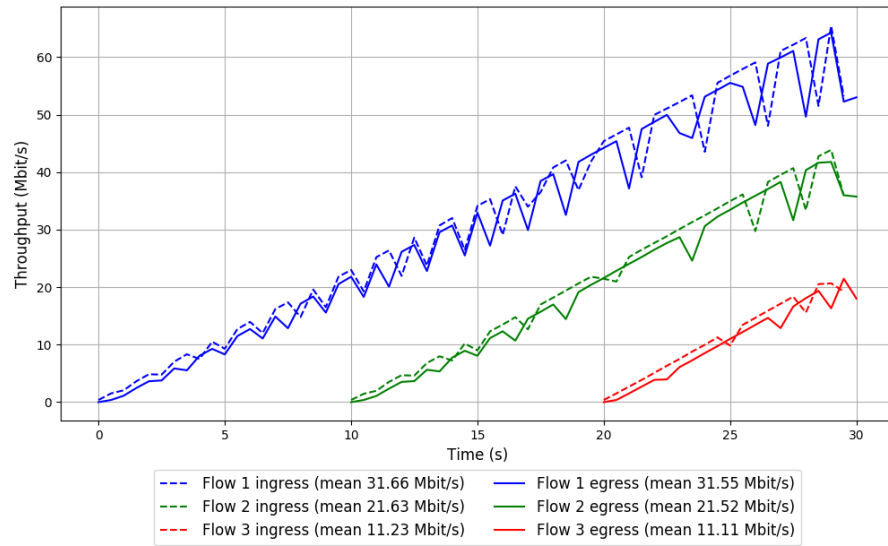


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-20 22:00:04
End at: 2018-06-20 22:00:34
Local clock offset: 0.099 ms
Remote clock offset: 0.405 ms

# Below is generated by plot.py at 2018-06-21 03:16:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.47 Mbit/s
95th percentile per-packet one-way delay: 54.766 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 31.55 Mbit/s
95th percentile per-packet one-way delay: 54.887 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 21.52 Mbit/s
95th percentile per-packet one-way delay: 54.535 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 11.11 Mbit/s
95th percentile per-packet one-way delay: 54.175 ms
Loss rate: 2.07%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-06-20 22:23:09

End at: 2018-06-20 22:23:39

Local clock offset: 0.215 ms

Remote clock offset: 0.097 ms

Below is generated by plot.py at 2018-06-21 03:16:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.91 Mbit/s

95th percentile per-packet one-way delay: 55.388 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 32.27 Mbit/s

95th percentile per-packet one-way delay: 55.498 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 20.99 Mbit/s

95th percentile per-packet one-way delay: 55.261 ms

Loss rate: 1.06%

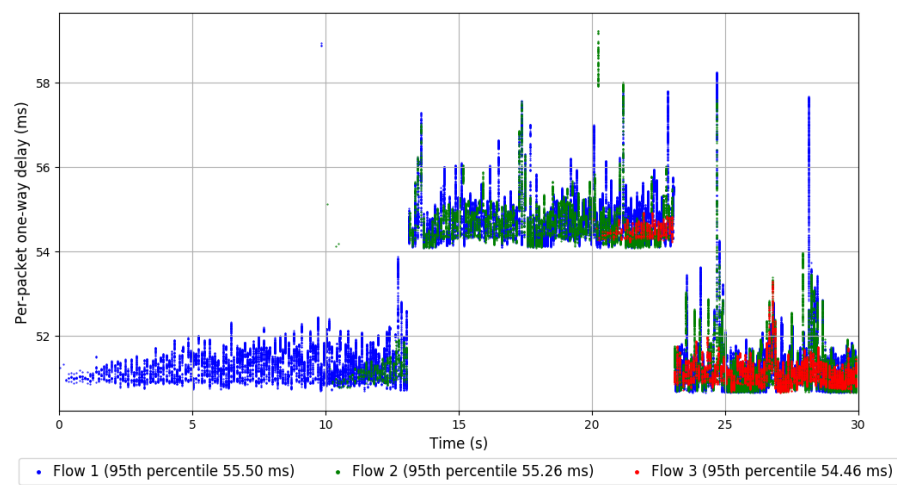
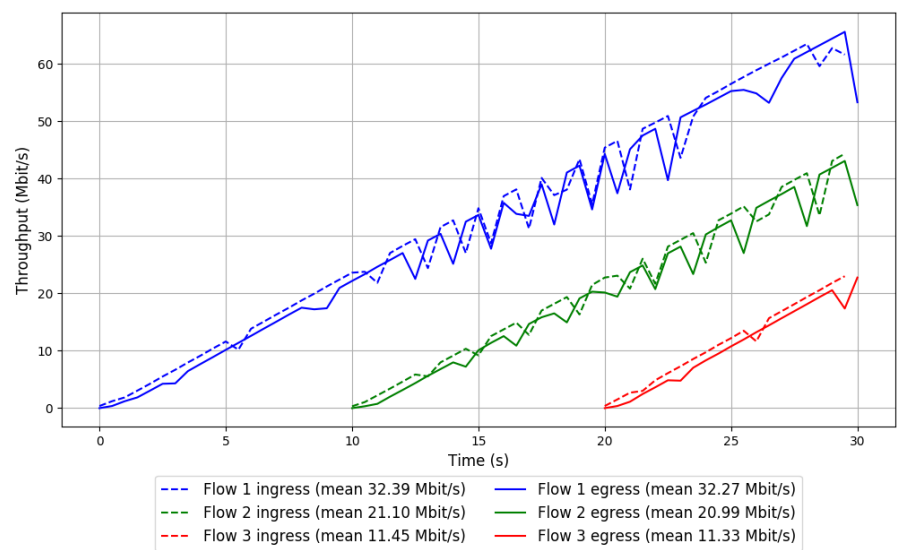
-- Flow 3:

Average throughput: 11.33 Mbit/s

95th percentile per-packet one-way delay: 54.460 ms

Loss rate: 2.06%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-06-20 22:46:10

End at: 2018-06-20 22:46:40

Local clock offset: 0.104 ms

Remote clock offset: 0.075 ms

Below is generated by plot.py at 2018-06-21 03:16:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.26 Mbit/s

95th percentile per-packet one-way delay: 55.238 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 31.50 Mbit/s

95th percentile per-packet one-way delay: 55.318 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 21.51 Mbit/s

95th percentile per-packet one-way delay: 55.227 ms

Loss rate: 1.05%

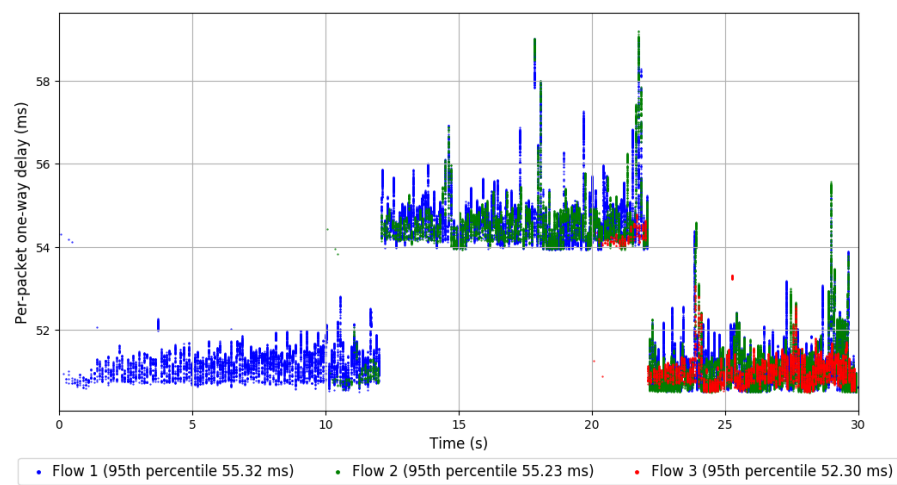
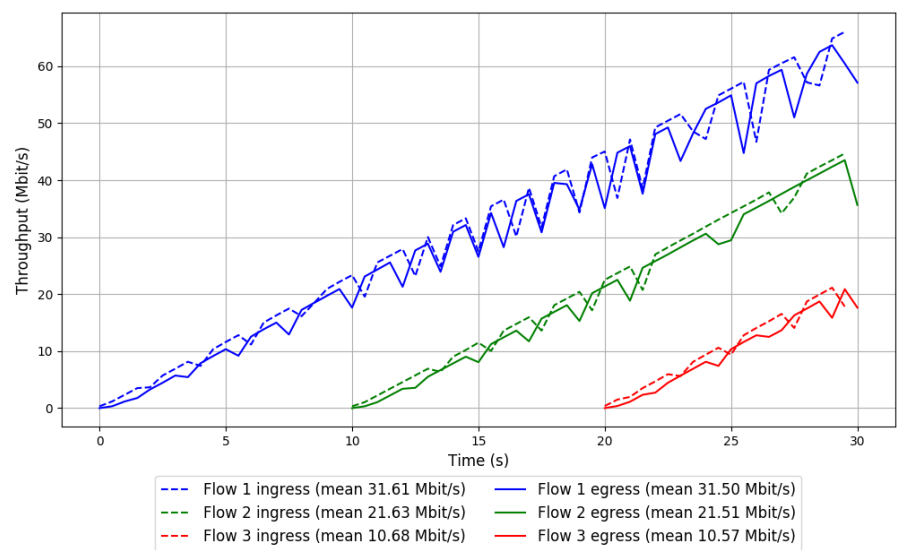
-- Flow 3:

Average throughput: 10.57 Mbit/s

95th percentile per-packet one-way delay: 52.298 ms

Loss rate: 2.14%

Run 3: Report of LEDBAT — Data Link

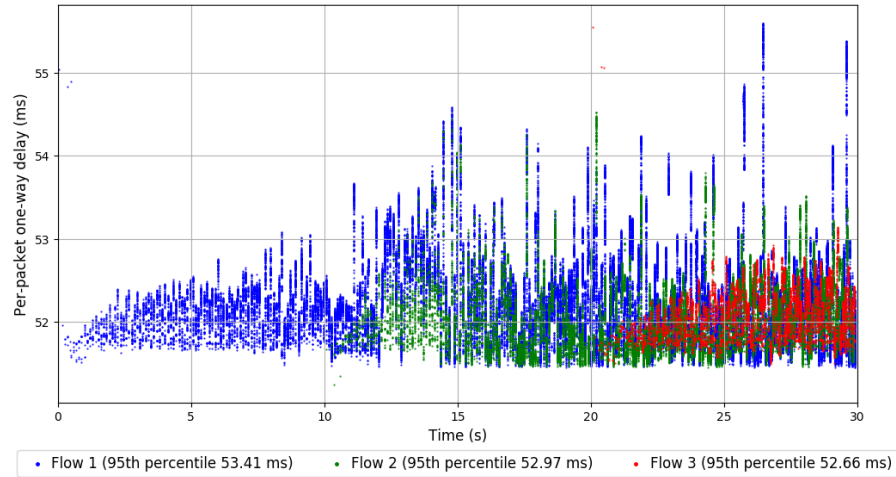
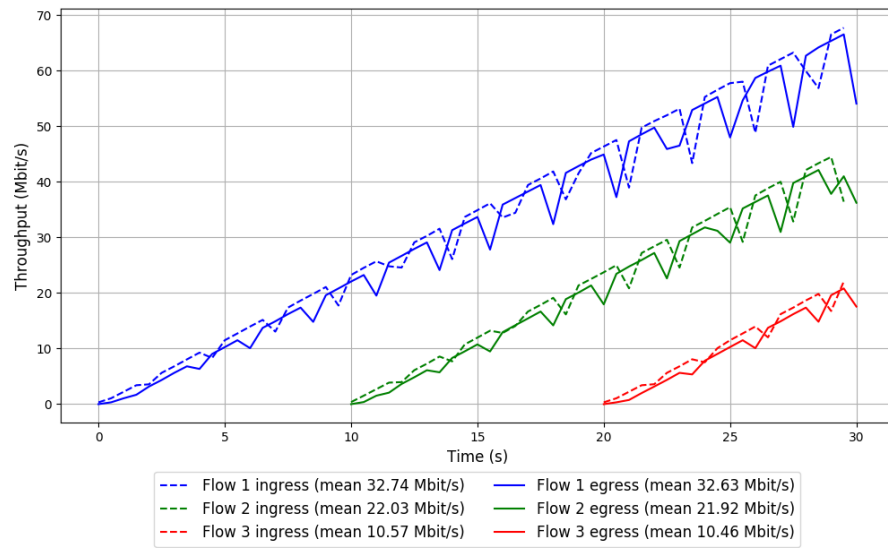


Run 4: Statistics of LEDBAT

Start at: 2018-06-20 23:08:53
End at: 2018-06-20 23:09:23
Local clock offset: -0.106 ms
Remote clock offset: -0.996 ms

Below is generated by plot.py at 2018-06-21 03:16:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.59 Mbit/s
95th percentile per-packet one-way delay: 53.250 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 32.63 Mbit/s
95th percentile per-packet one-way delay: 53.409 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 21.92 Mbit/s
95th percentile per-packet one-way delay: 52.970 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 10.46 Mbit/s
95th percentile per-packet one-way delay: 52.656 ms
Loss rate: 2.15%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-06-20 23:31:50

End at: 2018-06-20 23:32:20

Local clock offset: -0.03 ms

Remote clock offset: 1.776 ms

Below is generated by plot.py at 2018-06-21 03:16:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.74 Mbit/s

95th percentile per-packet one-way delay: 54.035 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 31.19 Mbit/s

95th percentile per-packet one-way delay: 53.918 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 21.08 Mbit/s

95th percentile per-packet one-way delay: 54.376 ms

Loss rate: 1.05%

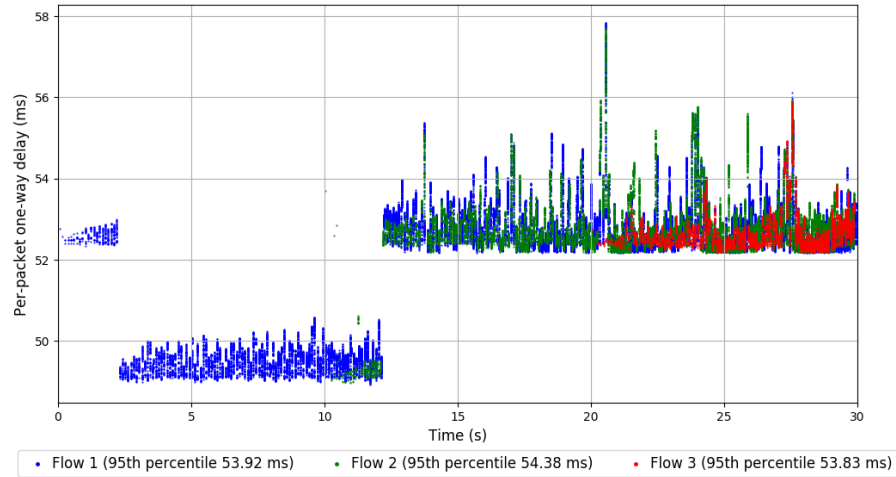
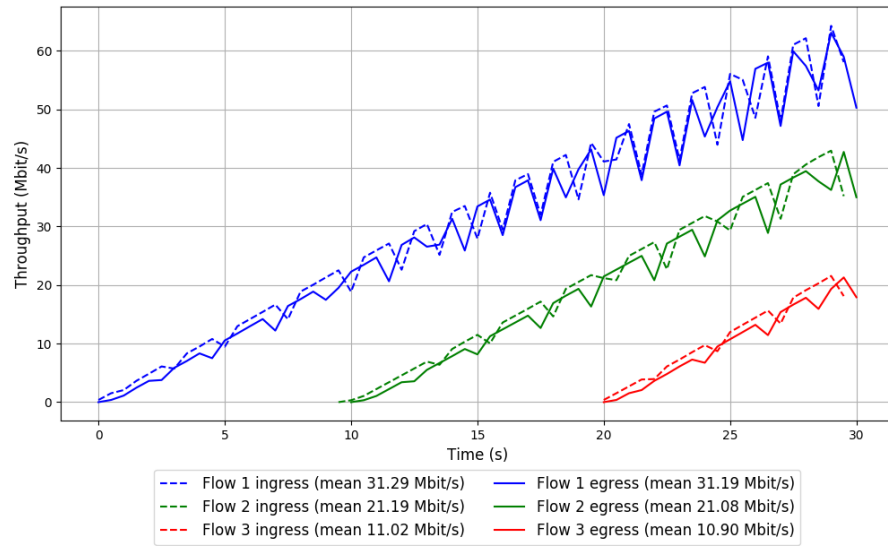
-- Flow 3:

Average throughput: 10.90 Mbit/s

95th percentile per-packet one-way delay: 53.827 ms

Loss rate: 2.11%

Run 5: Report of LEDBAT — Data Link

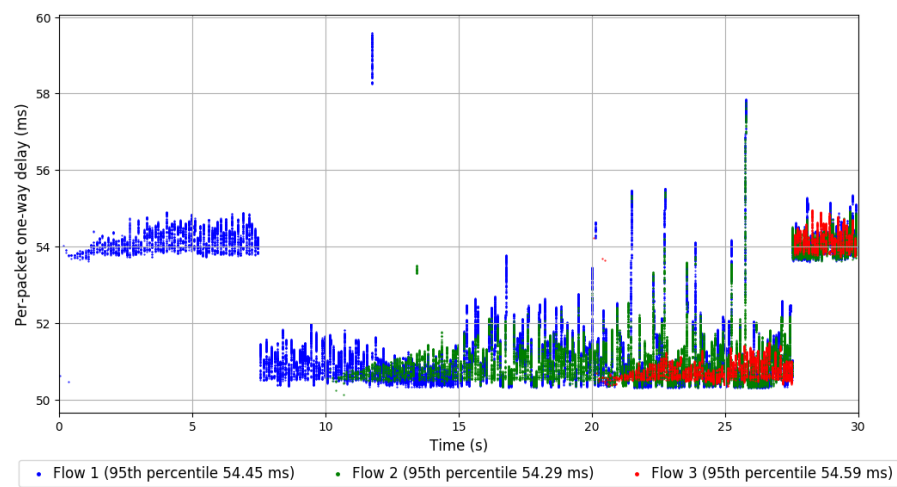
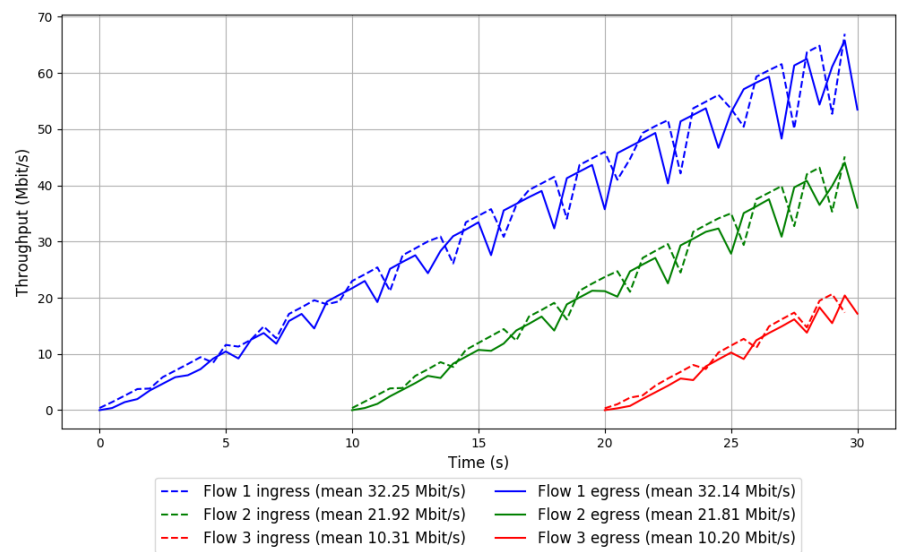


Run 6: Statistics of LEDBAT

Start at: 2018-06-20 23:54:35
End at: 2018-06-20 23:55:05
Local clock offset: -0.002 ms
Remote clock offset: -0.157 ms

Below is generated by plot.py at 2018-06-21 03:16:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.98 Mbit/s
95th percentile per-packet one-way delay: 54.431 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 32.14 Mbit/s
95th percentile per-packet one-way delay: 54.449 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 21.81 Mbit/s
95th percentile per-packet one-way delay: 54.292 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 10.20 Mbit/s
95th percentile per-packet one-way delay: 54.591 ms
Loss rate: 2.16%

Run 6: Report of LEDBAT — Data Link

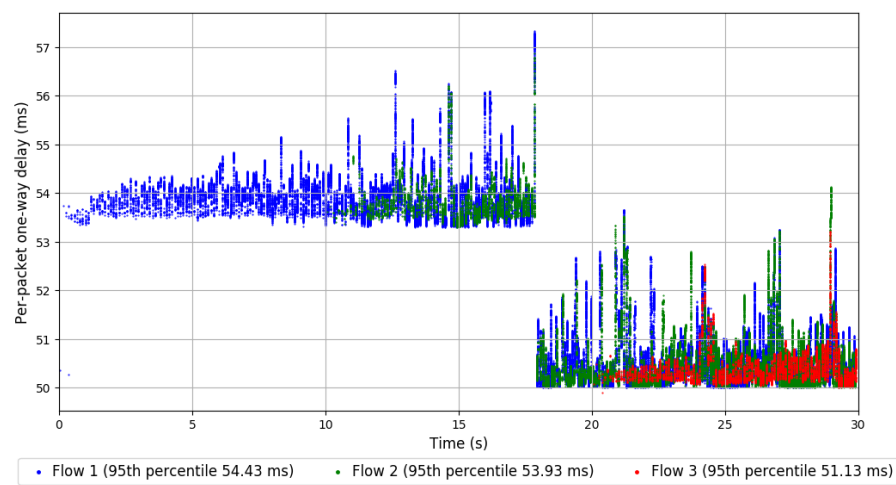
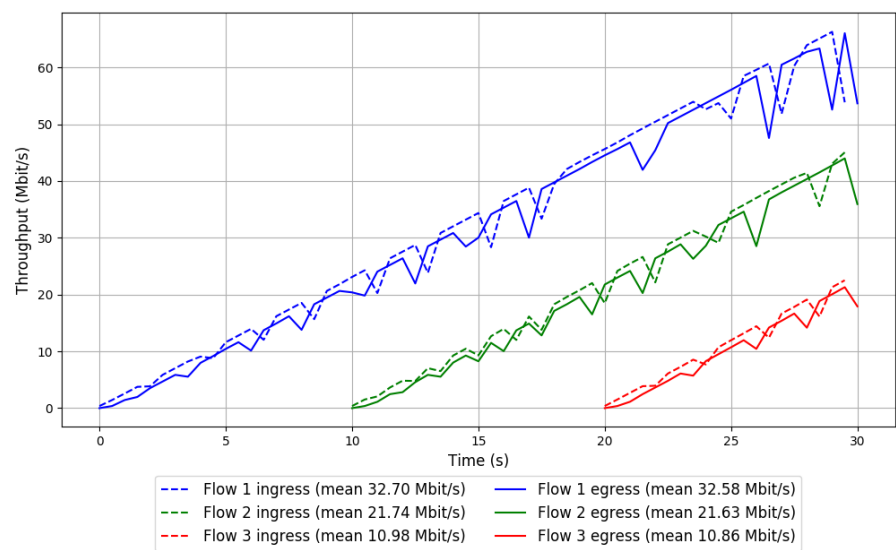


Run 7: Statistics of LEDBAT

Start at: 2018-06-21 00:17:44
End at: 2018-06-21 00:18:14
Local clock offset: -0.009 ms
Remote clock offset: -0.095 ms

Below is generated by plot.py at 2018-06-21 03:16:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.48 Mbit/s
95th percentile per-packet one-way delay: 54.265 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 32.58 Mbit/s
95th percentile per-packet one-way delay: 54.433 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 21.63 Mbit/s
95th percentile per-packet one-way delay: 53.926 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 10.86 Mbit/s
95th percentile per-packet one-way delay: 51.131 ms
Loss rate: 2.11%

Run 7: Report of LEDBAT — Data Link

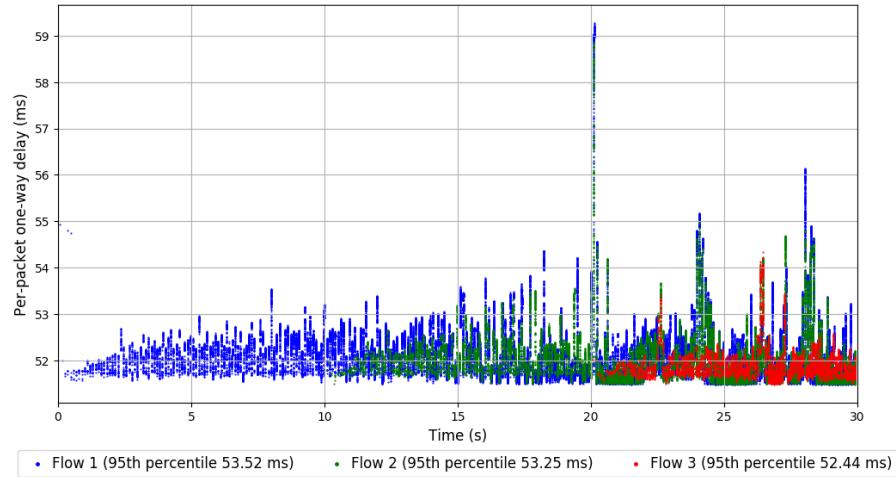
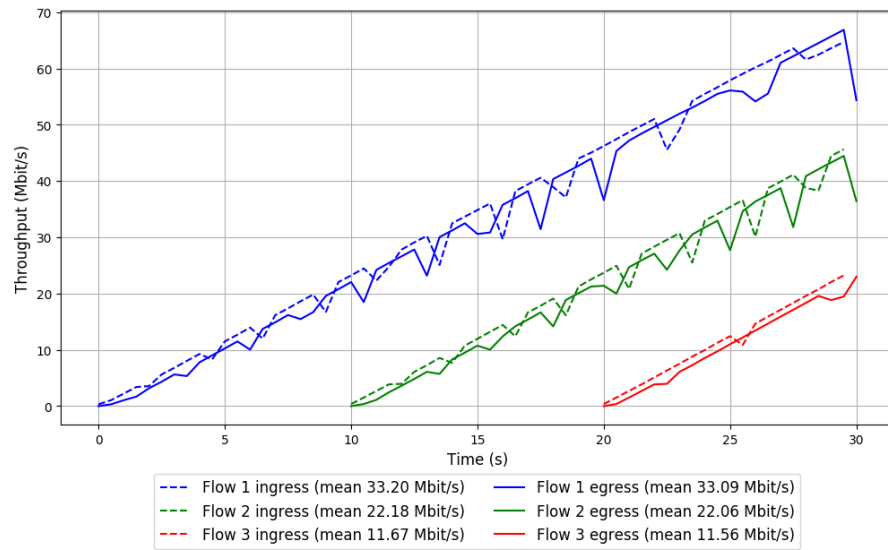


Run 8: Statistics of LEDBAT

Start at: 2018-06-21 00:41:01
End at: 2018-06-21 00:41:31
Local clock offset: 0.064 ms
Remote clock offset: -1.687 ms

Below is generated by plot.py at 2018-06-21 03:16:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 51.52 Mbit/s
95th percentile per-packet one-way delay: 53.391 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 33.09 Mbit/s
95th percentile per-packet one-way delay: 53.515 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 22.06 Mbit/s
95th percentile per-packet one-way delay: 53.253 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 11.56 Mbit/s
95th percentile per-packet one-way delay: 52.439 ms
Loss rate: 2.04%

Run 8: Report of LEDBAT — Data Link

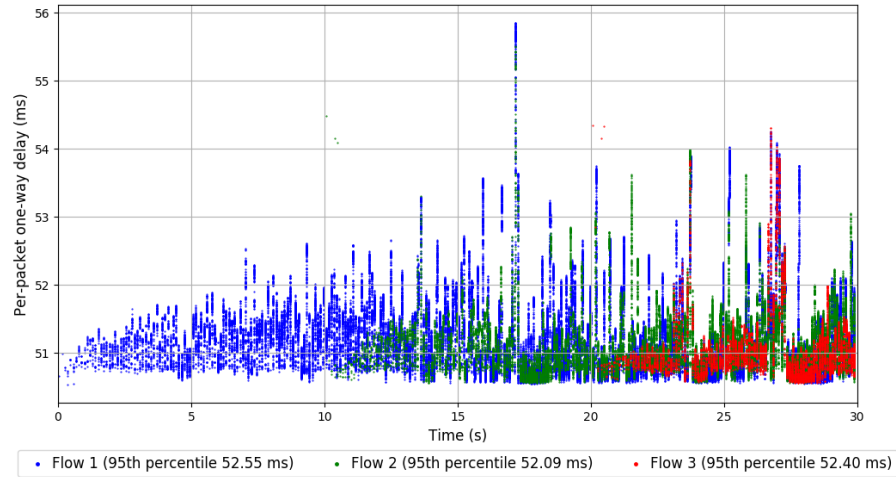
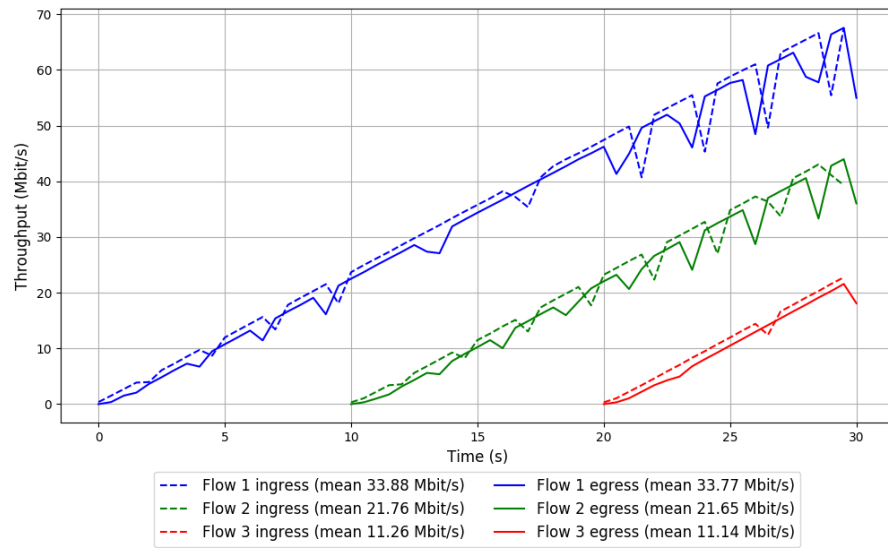


Run 9: Statistics of LEDBAT

Start at: 2018-06-21 01:04:10
End at: 2018-06-21 01:04:40
Local clock offset: 0.241 ms
Remote clock offset: -0.155 ms

Below is generated by plot.py at 2018-06-21 03:16:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 51.79 Mbit/s
95th percentile per-packet one-way delay: 52.439 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 33.77 Mbit/s
95th percentile per-packet one-way delay: 52.550 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 21.65 Mbit/s
95th percentile per-packet one-way delay: 52.094 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 11.14 Mbit/s
95th percentile per-packet one-way delay: 52.402 ms
Loss rate: 2.08%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-06-21 01:27:17

End at: 2018-06-21 01:27:47

Local clock offset: -0.263 ms

Remote clock offset: 0.063 ms

Below is generated by plot.py at 2018-06-21 03:16:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.81 Mbit/s

95th percentile per-packet one-way delay: 54.737 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 32.81 Mbit/s

95th percentile per-packet one-way delay: 54.903 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 20.60 Mbit/s

95th percentile per-packet one-way delay: 54.710 ms

Loss rate: 0.91%

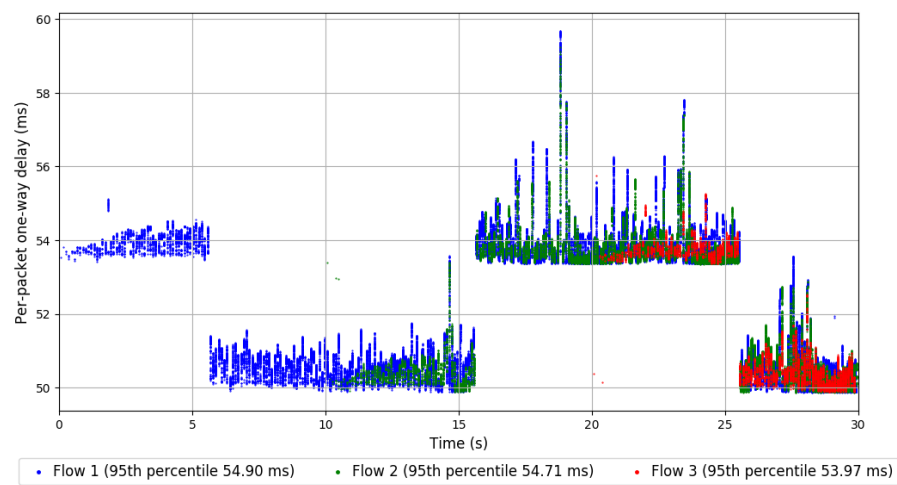
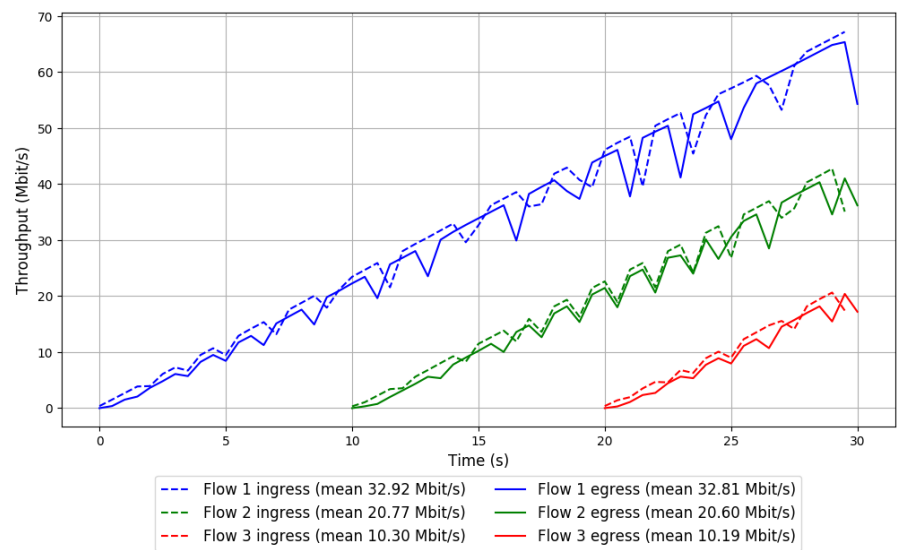
-- Flow 3:

Average throughput: 10.19 Mbit/s

95th percentile per-packet one-way delay: 53.968 ms

Loss rate: 2.18%

Run 10: Report of LEDBAT — Data Link

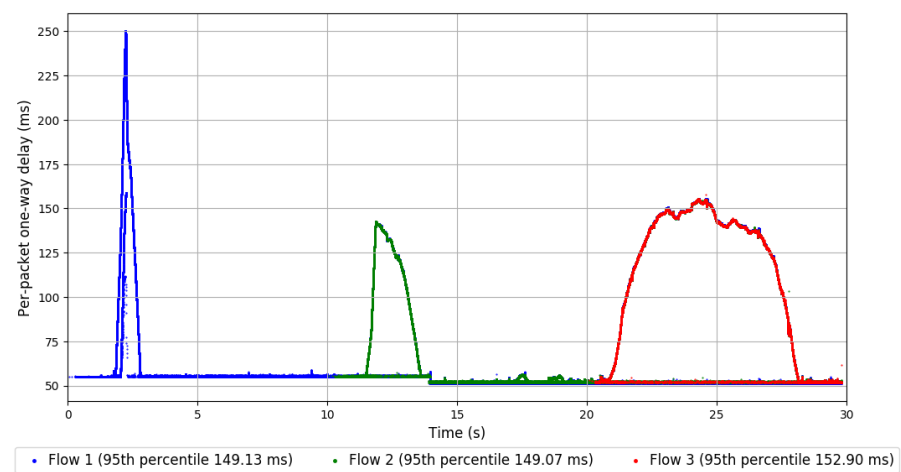
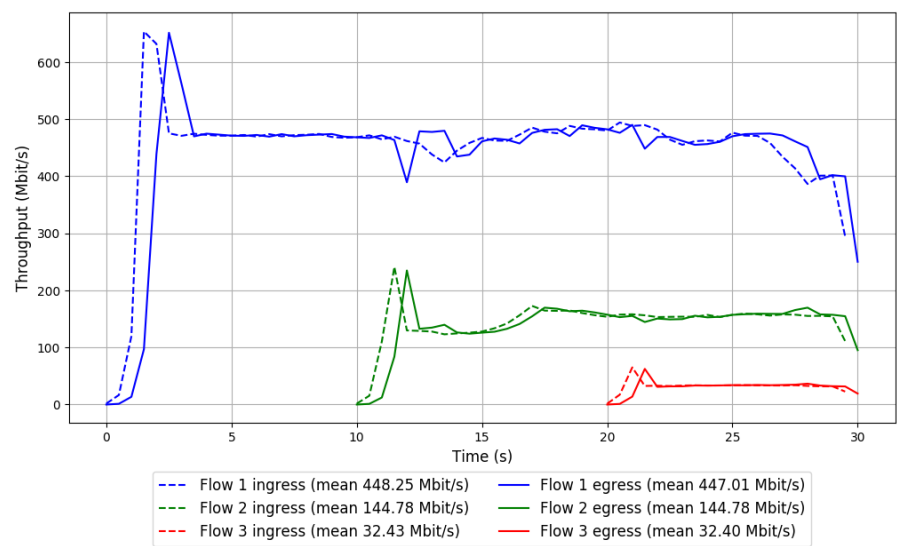


Run 1: Statistics of PCC-Allegro

Start at: 2018-06-20 21:55:08
End at: 2018-06-20 21:55:38
Local clock offset: 0.06 ms
Remote clock offset: -0.954 ms

Below is generated by plot.py at 2018-06-21 03:16:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 553.48 Mbit/s
95th percentile per-packet one-way delay: 149.158 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 447.01 Mbit/s
95th percentile per-packet one-way delay: 149.131 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 144.78 Mbit/s
95th percentile per-packet one-way delay: 149.072 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 32.40 Mbit/s
95th percentile per-packet one-way delay: 152.899 ms
Loss rate: 1.07%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-20 22:18:17

End at: 2018-06-20 22:18:47

Local clock offset: -0.105 ms

Remote clock offset: 0.219 ms

Below is generated by plot.py at 2018-06-21 03:16:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 557.22 Mbit/s

95th percentile per-packet one-way delay: 138.312 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 530.06 Mbit/s

95th percentile per-packet one-way delay: 138.124 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 36.63 Mbit/s

95th percentile per-packet one-way delay: 139.278 ms

Loss rate: 0.92%

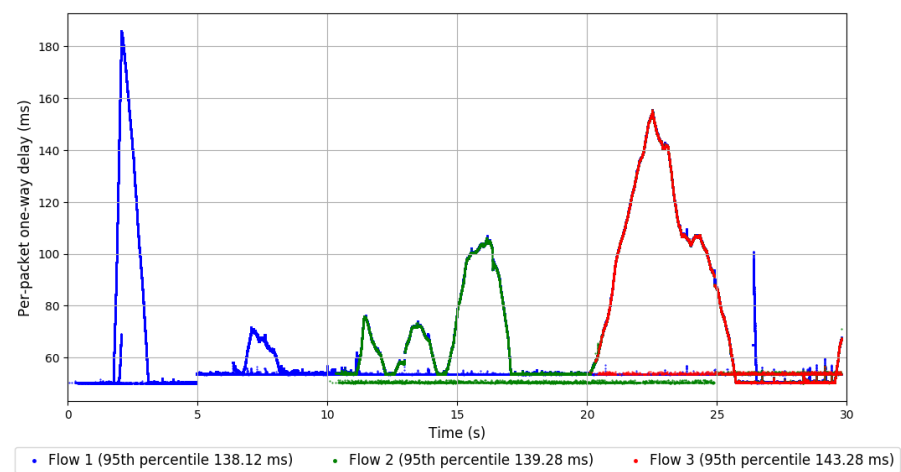
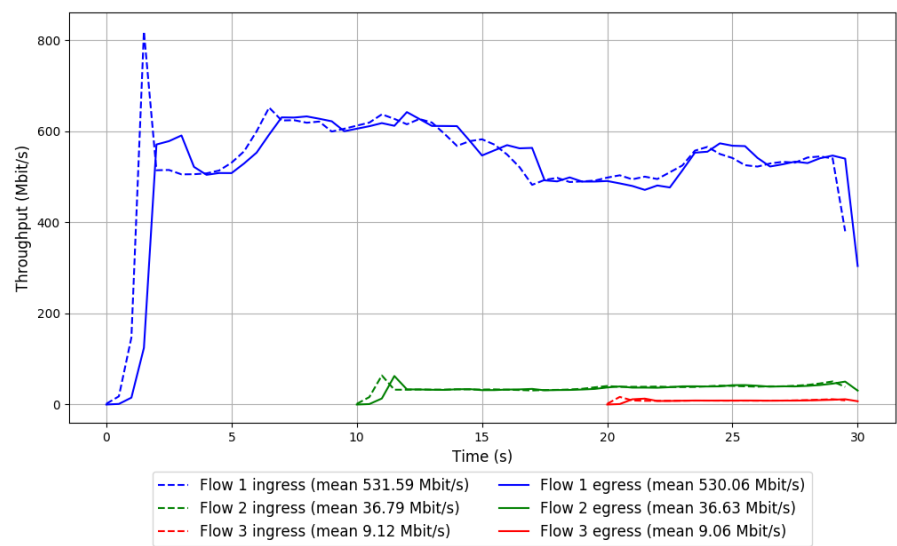
-- Flow 3:

Average throughput: 9.06 Mbit/s

95th percentile per-packet one-way delay: 143.281 ms

Loss rate: 1.75%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-20 22:41:11

End at: 2018-06-20 22:41:41

Local clock offset: 0.155 ms

Remote clock offset: 0.319 ms

Below is generated by plot.py at 2018-06-21 03:16:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 532.25 Mbit/s

95th percentile per-packet one-way delay: 177.906 ms

Loss rate: 5.45%

-- Flow 1:

Average throughput: 453.40 Mbit/s

95th percentile per-packet one-way delay: 177.850 ms

Loss rate: 5.38%

-- Flow 2:

Average throughput: 117.81 Mbit/s

95th percentile per-packet one-way delay: 178.085 ms

Loss rate: 5.88%

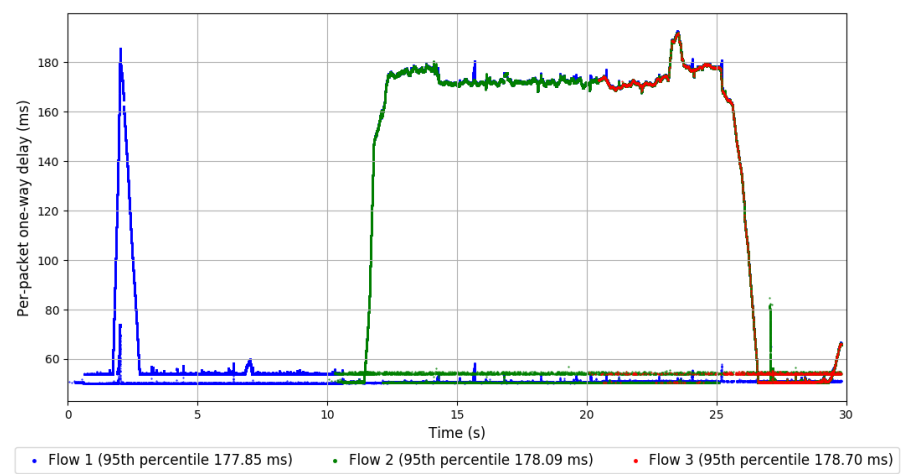
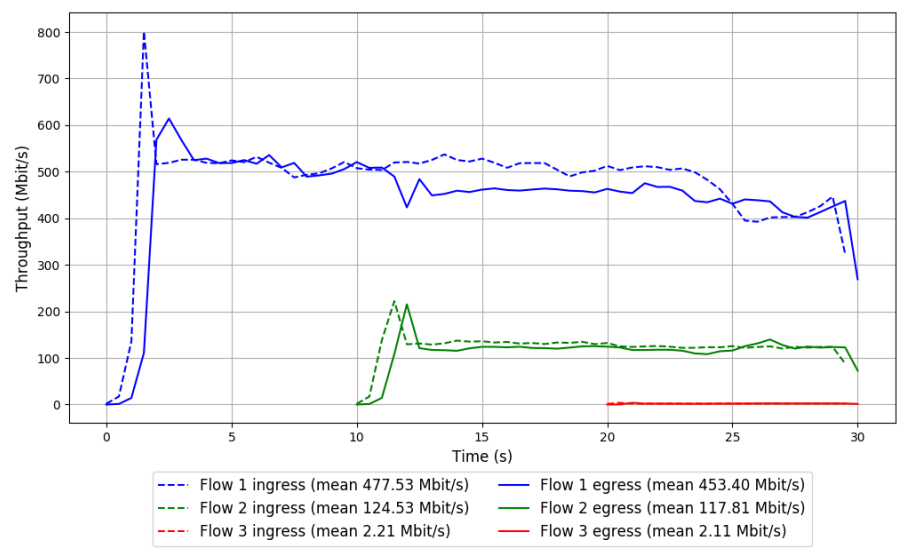
-- Flow 3:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 178.699 ms

Loss rate: 5.57%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-20 23:04:00

End at: 2018-06-20 23:04:30

Local clock offset: 0.097 ms

Remote clock offset: 1.714 ms

Below is generated by plot.py at 2018-06-21 03:16:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 526.42 Mbit/s

95th percentile per-packet one-way delay: 194.039 ms

Loss rate: 1.68%

-- Flow 1:

Average throughput: 500.63 Mbit/s

95th percentile per-packet one-way delay: 194.200 ms

Loss rate: 1.68%

-- Flow 2:

Average throughput: 5.62 Mbit/s

95th percentile per-packet one-way delay: 193.439 ms

Loss rate: 2.01%

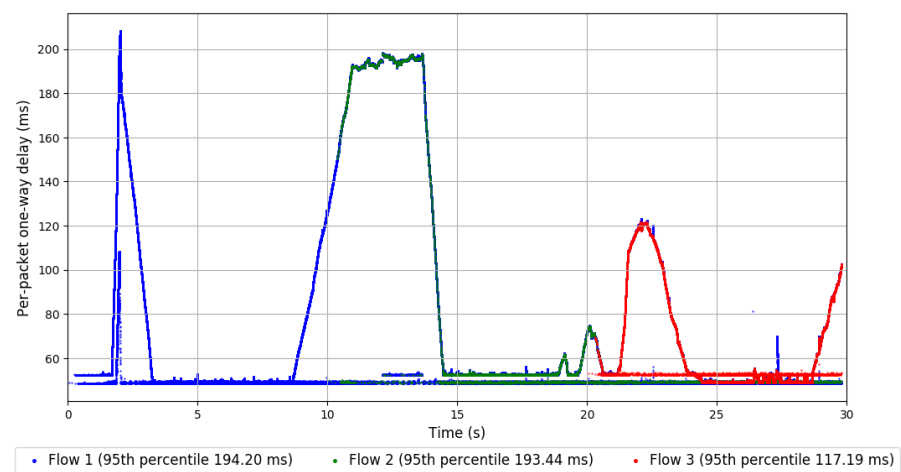
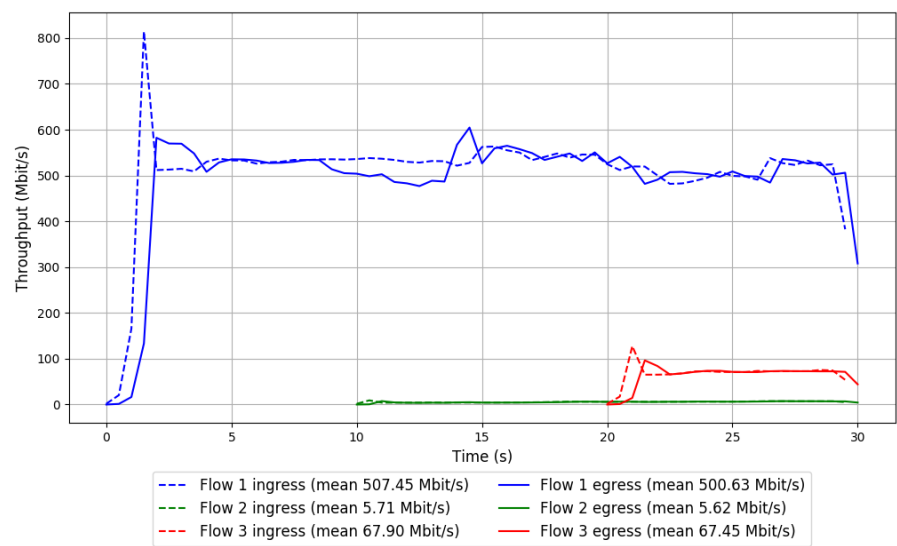
-- Flow 3:

Average throughput: 67.45 Mbit/s

95th percentile per-packet one-way delay: 117.189 ms

Loss rate: 1.72%

Run 4: Report of PCC-Allegro — Data Link

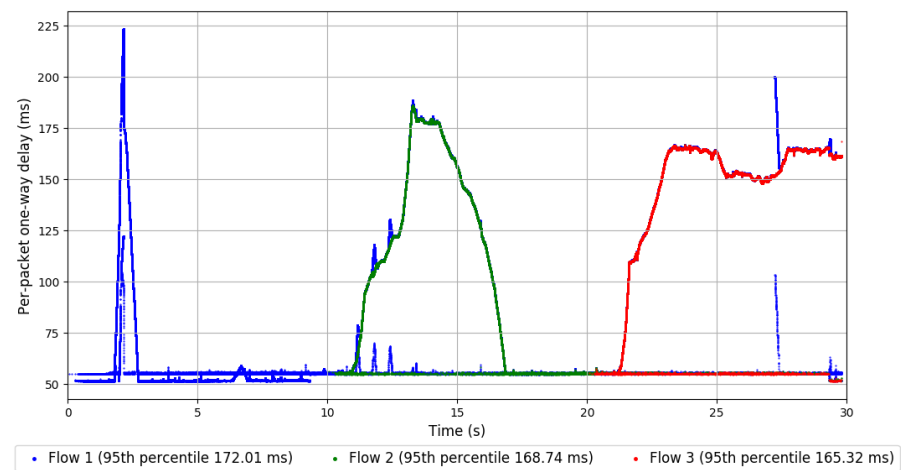
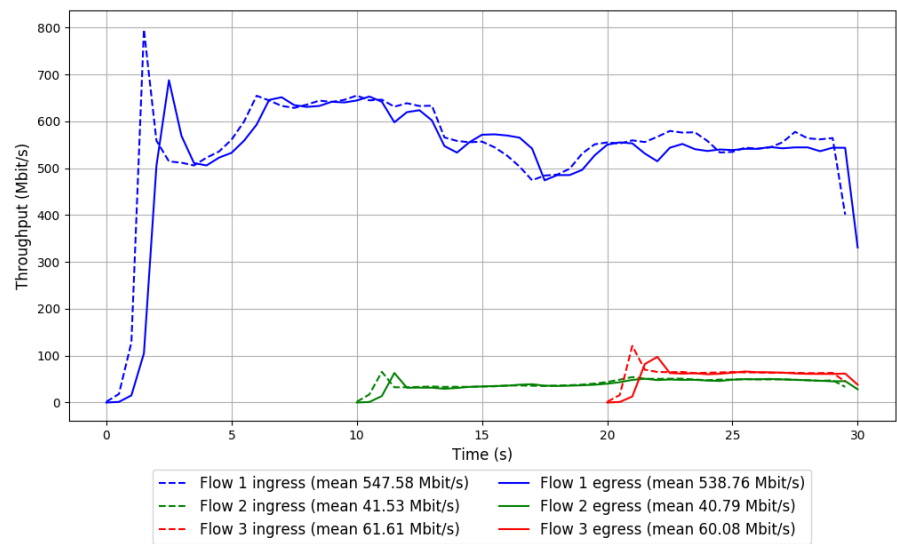


Run 5: Statistics of PCC-Allegro

Start at: 2018-06-20 23:26:53
End at: 2018-06-20 23:27:23
Local clock offset: -0.079 ms
Remote clock offset: -0.728 ms

Below is generated by plot.py at 2018-06-21 03:16:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 585.34 Mbit/s
95th percentile per-packet one-way delay: 170.928 ms
Loss rate: 2.03%
-- Flow 1:
Average throughput: 538.76 Mbit/s
95th percentile per-packet one-way delay: 172.009 ms
Loss rate: 1.96%
-- Flow 2:
Average throughput: 40.79 Mbit/s
95th percentile per-packet one-way delay: 168.738 ms
Loss rate: 2.32%
-- Flow 3:
Average throughput: 60.08 Mbit/s
95th percentile per-packet one-way delay: 165.324 ms
Loss rate: 3.45%

Run 5: Report of PCC-Allegro — Data Link

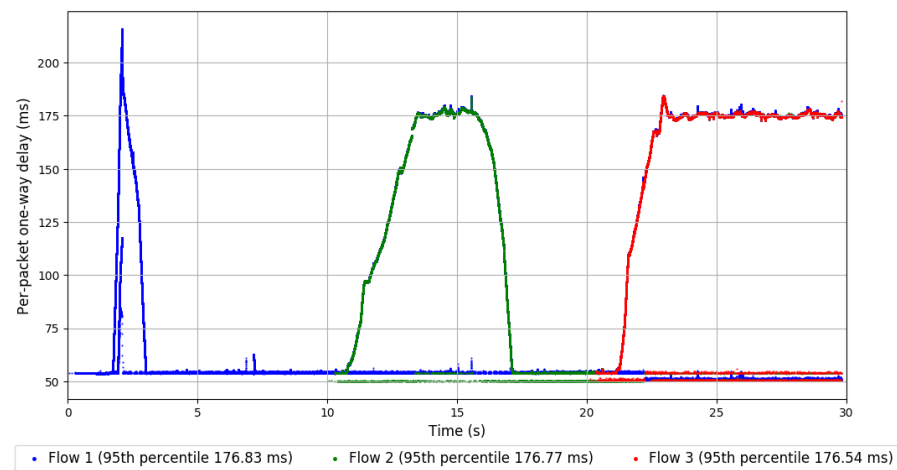
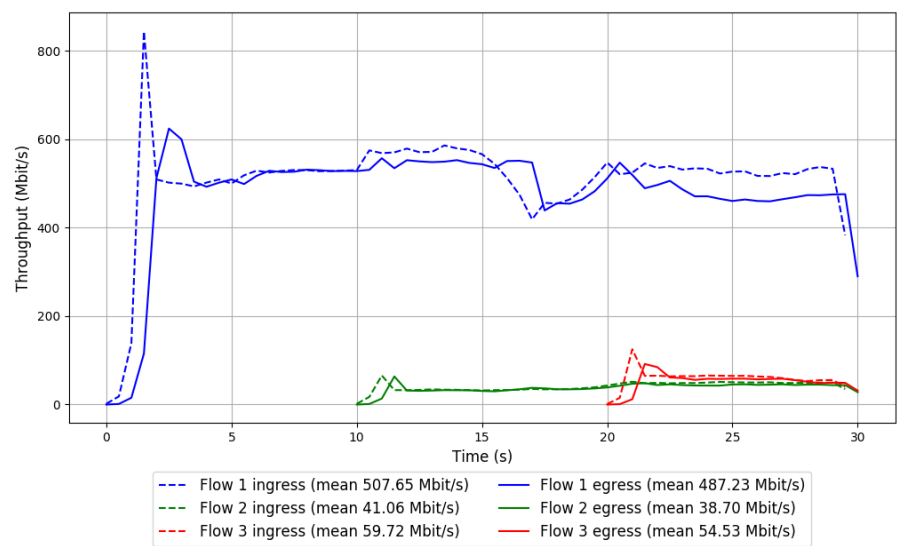


Run 6: Statistics of PCC-Allegro

Start at: 2018-06-20 23:49:40
End at: 2018-06-20 23:50:10
Local clock offset: 0.088 ms
Remote clock offset: -0.045 ms

Below is generated by plot.py at 2018-06-21 03:16:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 530.54 Mbit/s
95th percentile per-packet one-way delay: 176.812 ms
Loss rate: 4.63%
-- Flow 1:
Average throughput: 487.23 Mbit/s
95th percentile per-packet one-way delay: 176.826 ms
Loss rate: 4.36%
-- Flow 2:
Average throughput: 38.70 Mbit/s
95th percentile per-packet one-way delay: 176.771 ms
Loss rate: 6.24%
-- Flow 3:
Average throughput: 54.53 Mbit/s
95th percentile per-packet one-way delay: 176.545 ms
Loss rate: 9.56%

Run 6: Report of PCC-Allegro — Data Link

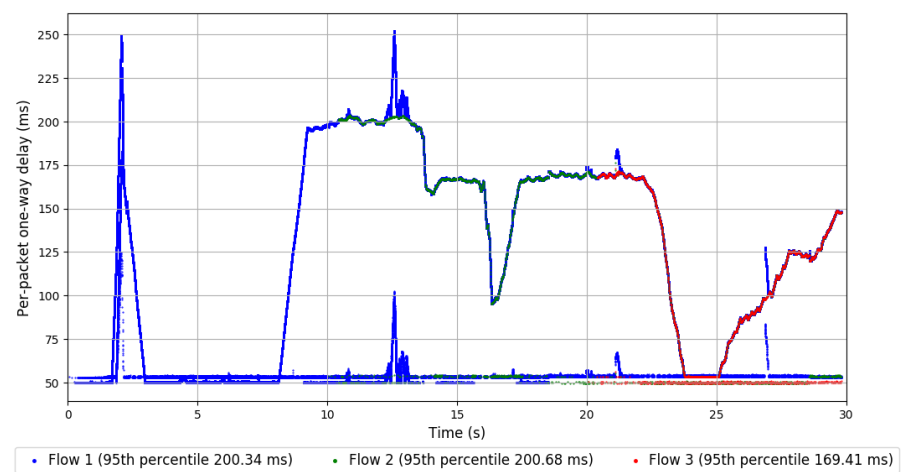
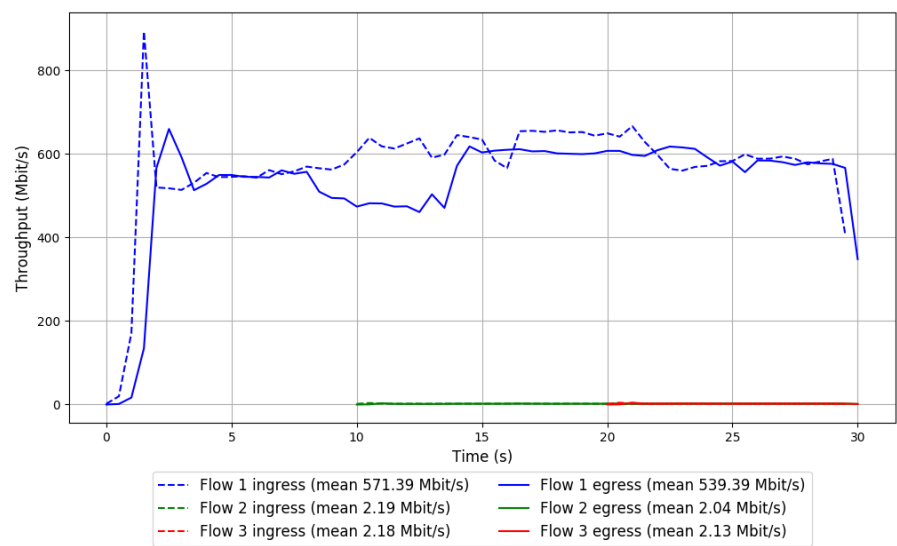


Run 7: Statistics of PCC-Allegro

Start at: 2018-06-21 00:12:44
End at: 2018-06-21 00:13:14
Local clock offset: -0.174 ms
Remote clock offset: -0.244 ms

Below is generated by plot.py at 2018-06-21 03:21:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 541.44 Mbit/s
95th percentile per-packet one-way delay: 200.341 ms
Loss rate: 5.94%
-- Flow 1:
Average throughput: 539.39 Mbit/s
95th percentile per-packet one-way delay: 200.345 ms
Loss rate: 5.94%
-- Flow 2:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 200.683 ms
Loss rate: 7.35%
-- Flow 3:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 169.414 ms
Loss rate: 3.20%

Run 7: Report of PCC-Allegro — Data Link

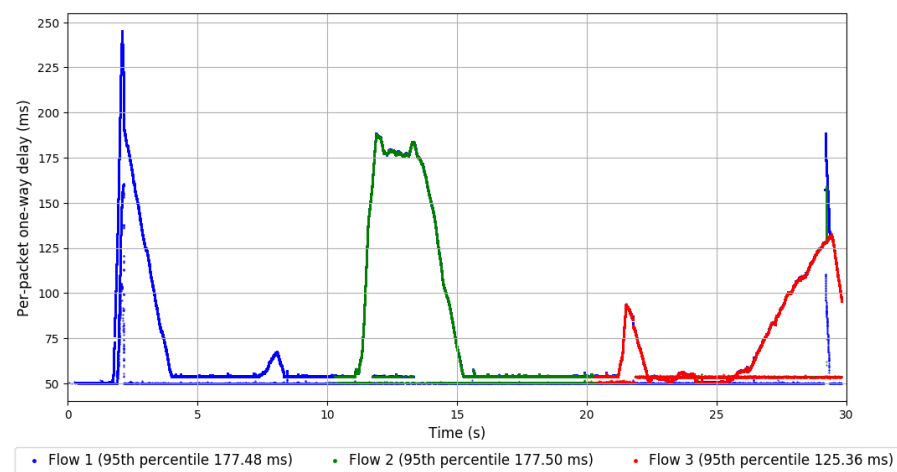
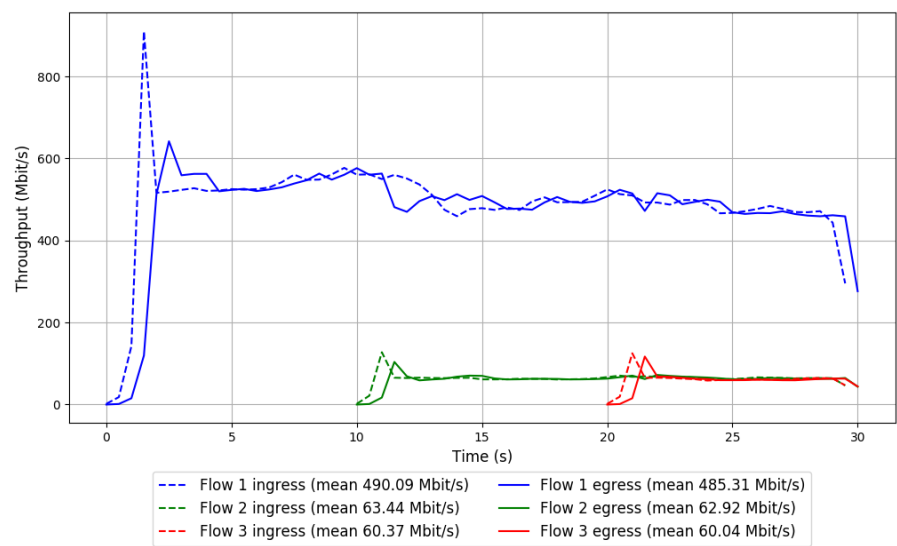


Run 8: Statistics of PCC-Allegro

Start at: 2018-06-21 00:36:10
End at: 2018-06-21 00:36:40
Local clock offset: 0.212 ms
Remote clock offset: -0.217 ms

Below is generated by plot.py at 2018-06-21 03:21:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 546.73 Mbit/s
95th percentile per-packet one-way delay: 177.392 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 485.31 Mbit/s
95th percentile per-packet one-way delay: 177.477 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 62.92 Mbit/s
95th percentile per-packet one-way delay: 177.500 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 60.04 Mbit/s
95th percentile per-packet one-way delay: 125.365 ms
Loss rate: 1.61%

Run 8: Report of PCC-Allegro — Data Link

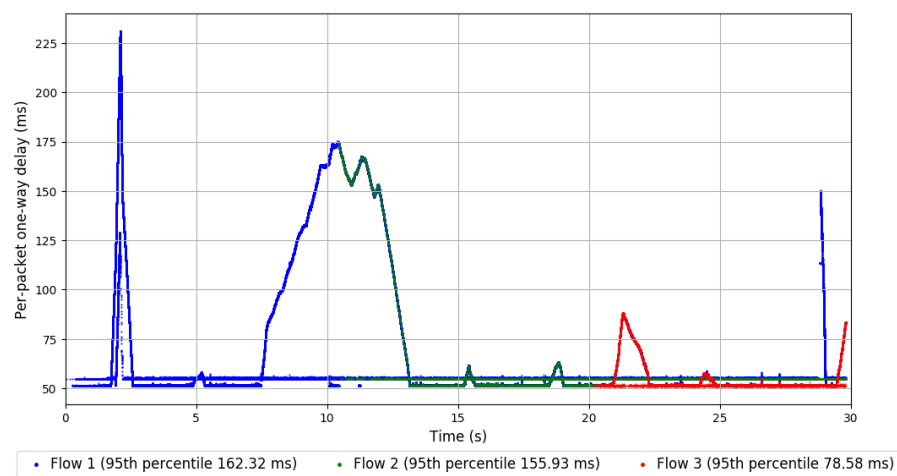
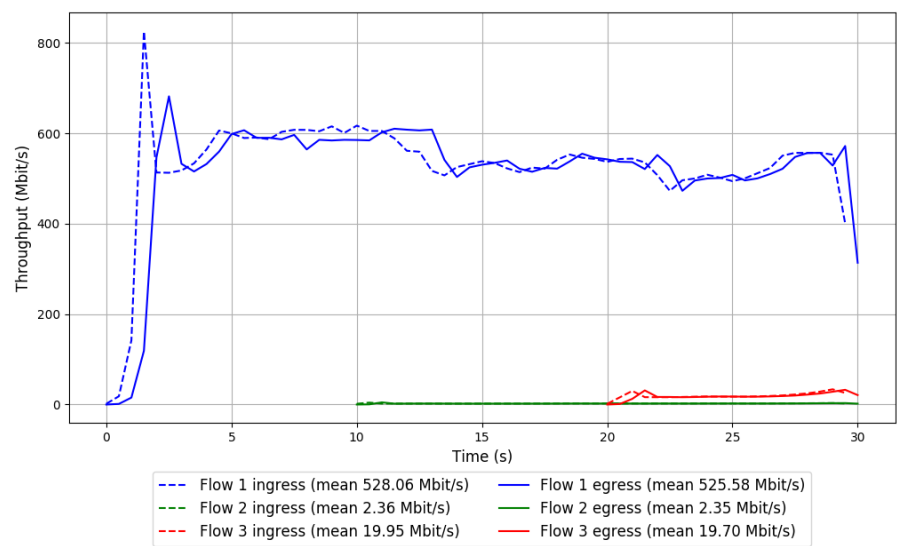


Run 9: Statistics of PCC-Allegro

Start at: 2018-06-21 00:59:07
End at: 2018-06-21 00:59:37
Local clock offset: -0.042 ms
Remote clock offset: -1.181 ms

Below is generated by plot.py at 2018-06-21 03:21:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 533.56 Mbit/s
95th percentile per-packet one-way delay: 162.254 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 525.58 Mbit/s
95th percentile per-packet one-way delay: 162.325 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 155.927 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 19.70 Mbit/s
95th percentile per-packet one-way delay: 78.585 ms
Loss rate: 2.29%

Run 9: Report of PCC-Allegro — Data Link

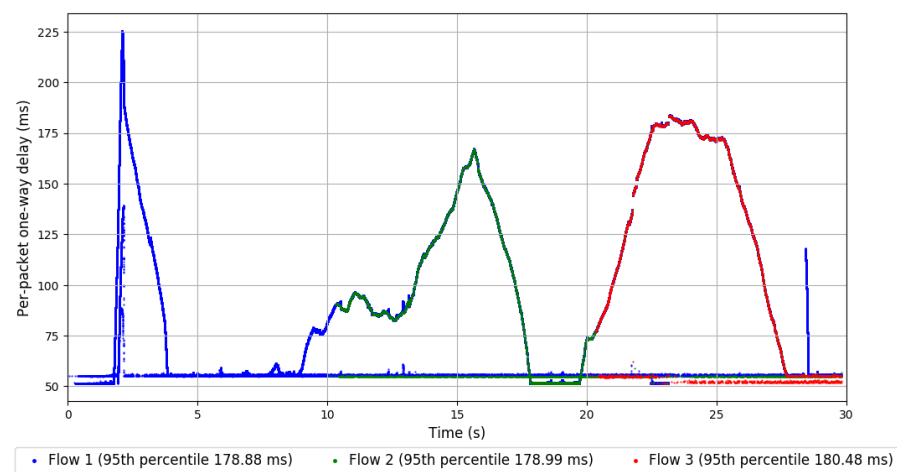
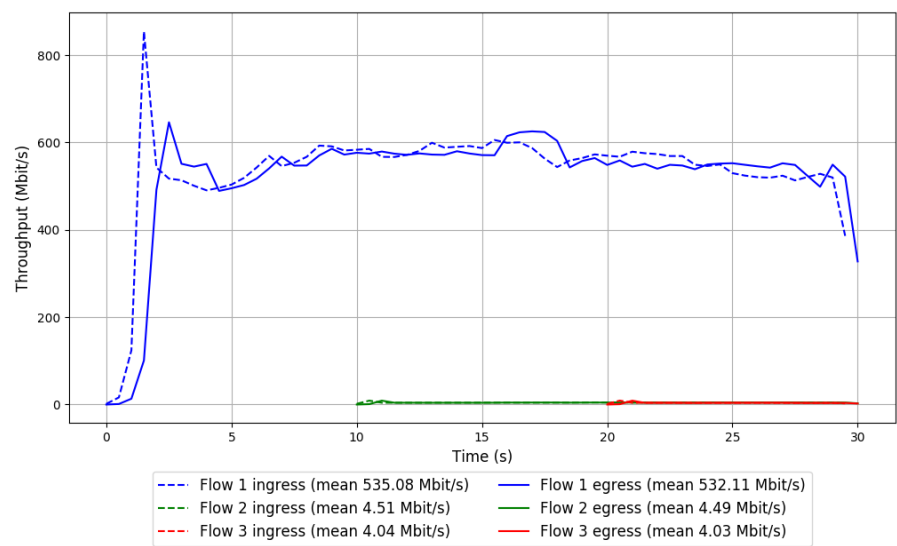


Run 10: Statistics of PCC-Allegro

Start at: 2018-06-21 01:22:19
End at: 2018-06-21 01:22:49
Local clock offset: -0.091 ms
Remote clock offset: -1.323 ms

Below is generated by plot.py at 2018-06-21 03:21:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 536.35 Mbit/s
95th percentile per-packet one-way delay: 178.891 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 532.11 Mbit/s
95th percentile per-packet one-way delay: 178.881 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 4.49 Mbit/s
95th percentile per-packet one-way delay: 178.989 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 4.03 Mbit/s
95th percentile per-packet one-way delay: 180.481 ms
Loss rate: 1.51%

Run 10: Report of PCC-Allegro — Data Link

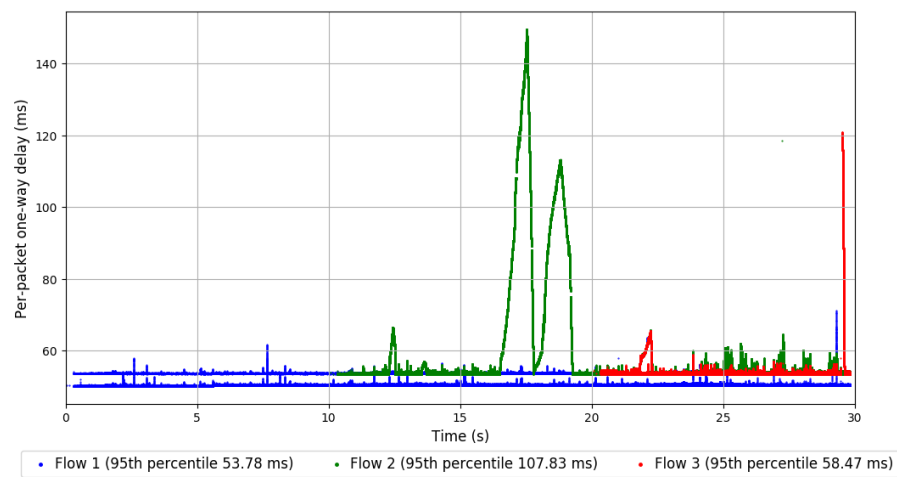
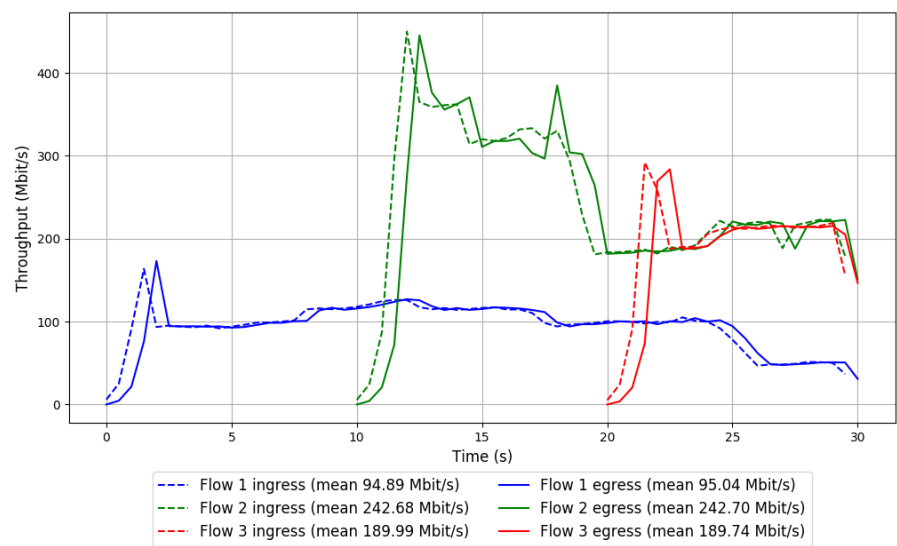


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-20 22:10:06
End at: 2018-06-20 22:10:36
Local clock offset: 0.026 ms
Remote clock offset: 0.455 ms

# Below is generated by plot.py at 2018-06-21 03:24:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 318.24 Mbit/s
95th percentile per-packet one-way delay: 89.823 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 95.04 Mbit/s
95th percentile per-packet one-way delay: 53.777 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 242.70 Mbit/s
95th percentile per-packet one-way delay: 107.825 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 189.74 Mbit/s
95th percentile per-packet one-way delay: 58.474 ms
Loss rate: 1.24%
```

Run 1: Report of PCC-Expr — Data Link

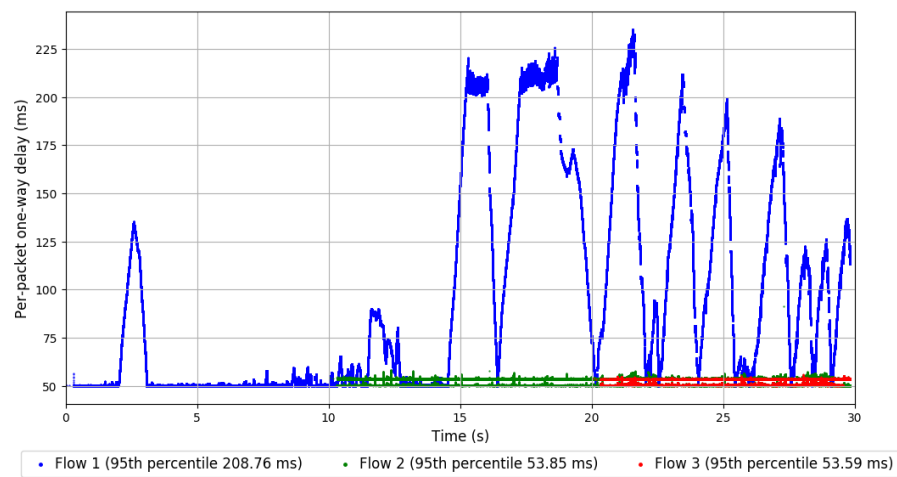
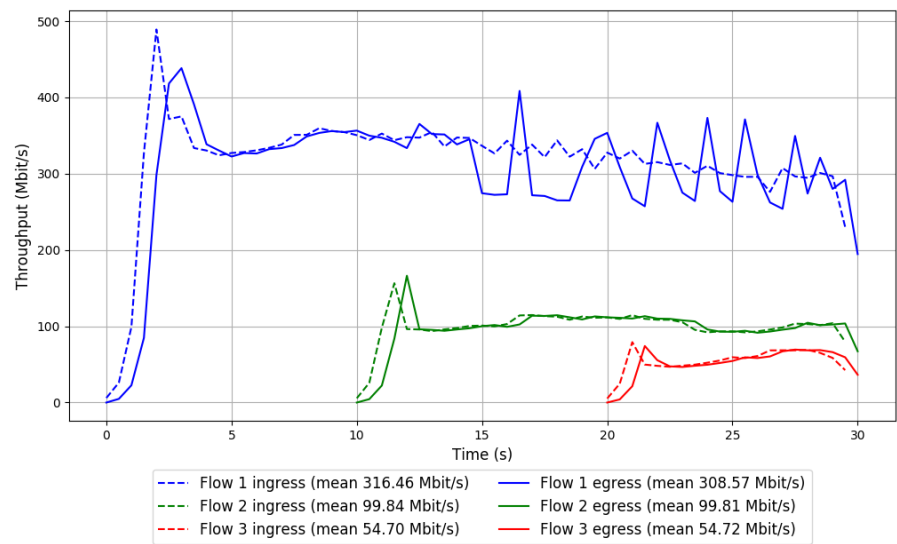


```
Run 2: Statistics of PCC-Expr

Start at: 2018-06-20 22:32:53
End at: 2018-06-20 22:33:23
Local clock offset: 0.004 ms
Remote clock offset: 0.474 ms

# Below is generated by plot.py at 2018-06-21 03:27:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 392.74 Mbit/s
95th percentile per-packet one-way delay: 206.948 ms
Loss rate: 2.38%
-- Flow 1:
Average throughput: 308.57 Mbit/s
95th percentile per-packet one-way delay: 208.759 ms
Loss rate: 2.84%
-- Flow 2:
Average throughput: 99.81 Mbit/s
95th percentile per-packet one-way delay: 53.848 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 54.72 Mbit/s
95th percentile per-packet one-way delay: 53.585 ms
Loss rate: 1.06%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-06-20 22:55:48

End at: 2018-06-20 22:56:18

Local clock offset: 0.12 ms

Remote clock offset: 0.426 ms

Below is generated by plot.py at 2018-06-21 03:30:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 410.69 Mbit/s

95th percentile per-packet one-way delay: 232.889 ms

Loss rate: 5.71%

-- Flow 1:

Average throughput: 302.41 Mbit/s

95th percentile per-packet one-way delay: 254.636 ms

Loss rate: 6.78%

-- Flow 2:

Average throughput: 147.81 Mbit/s

95th percentile per-packet one-way delay: 176.672 ms

Loss rate: 2.61%

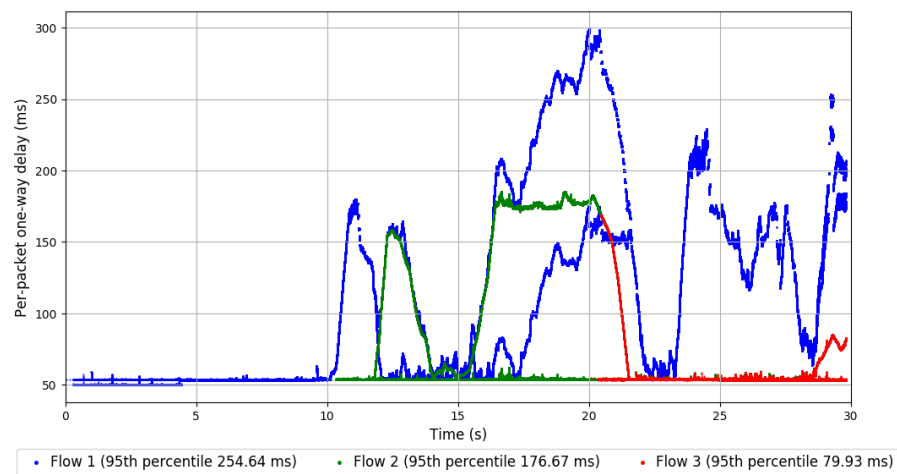
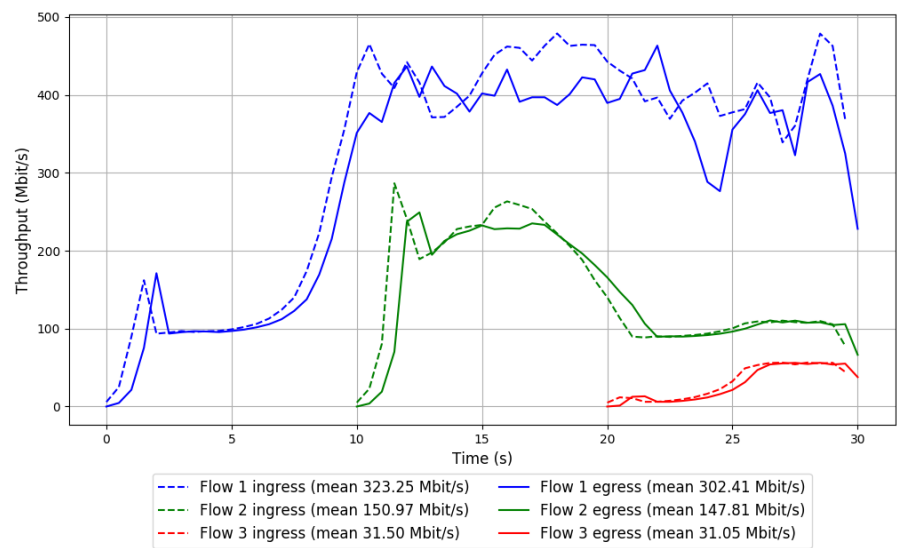
-- Flow 3:

Average throughput: 31.05 Mbit/s

95th percentile per-packet one-way delay: 79.929 ms

Loss rate: 2.50%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-06-20 23:18:36

End at: 2018-06-20 23:19:06

Local clock offset: -0.058 ms

Remote clock offset: 0.339 ms

Below is generated by plot.py at 2018-06-21 03:32:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 475.04 Mbit/s

95th percentile per-packet one-way delay: 206.771 ms

Loss rate: 3.62%

-- Flow 1:

Average throughput: 374.83 Mbit/s

95th percentile per-packet one-way delay: 223.282 ms

Loss rate: 4.25%

-- Flow 2:

Average throughput: 102.76 Mbit/s

95th percentile per-packet one-way delay: 146.587 ms

Loss rate: 0.77%

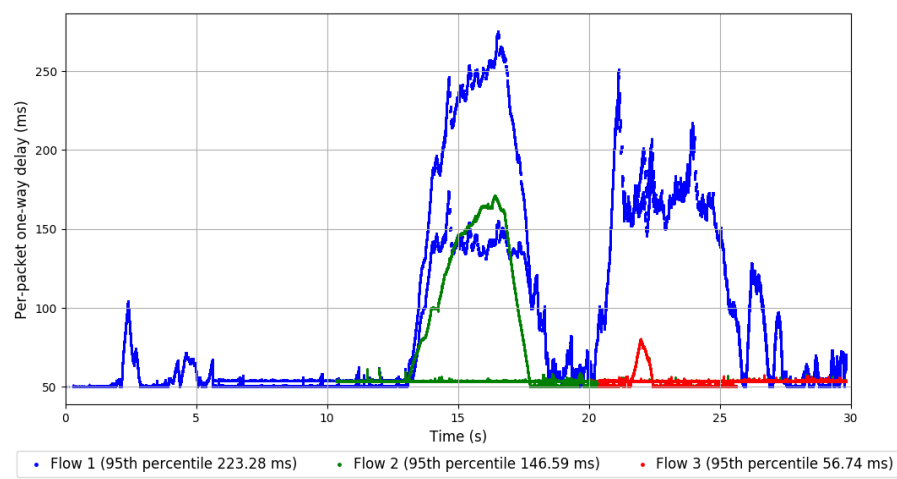
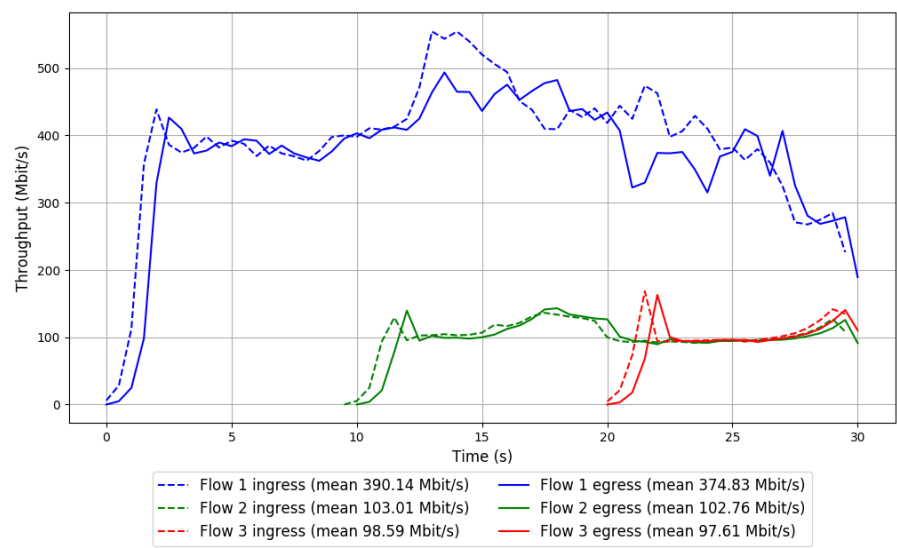
-- Flow 3:

Average throughput: 97.61 Mbit/s

95th percentile per-packet one-way delay: 56.736 ms

Loss rate: 2.05%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-06-20 23:41:35

End at: 2018-06-20 23:42:05

Local clock offset: -0.234 ms

Remote clock offset: 0.374 ms

Below is generated by plot.py at 2018-06-21 03:32:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 272.99 Mbit/s

95th percentile per-packet one-way delay: 86.498 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 138.13 Mbit/s

95th percentile per-packet one-way delay: 54.351 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 177.59 Mbit/s

95th percentile per-packet one-way delay: 127.730 ms

Loss rate: 1.26%

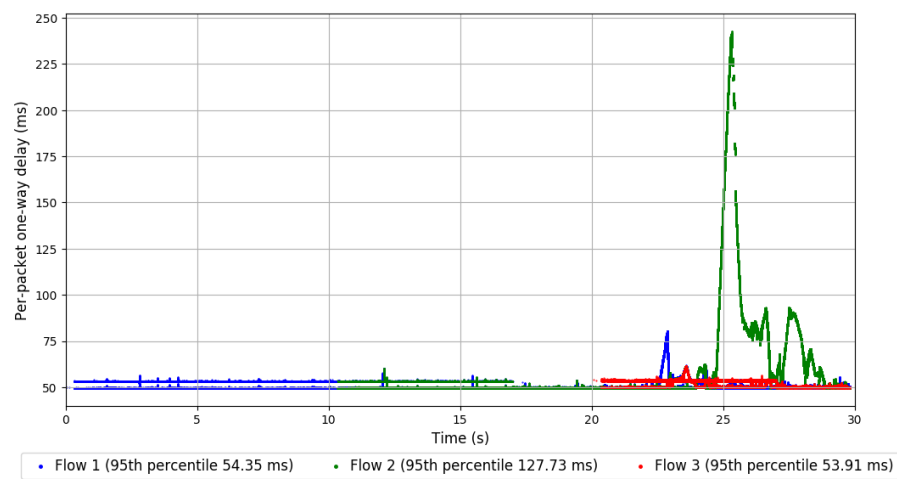
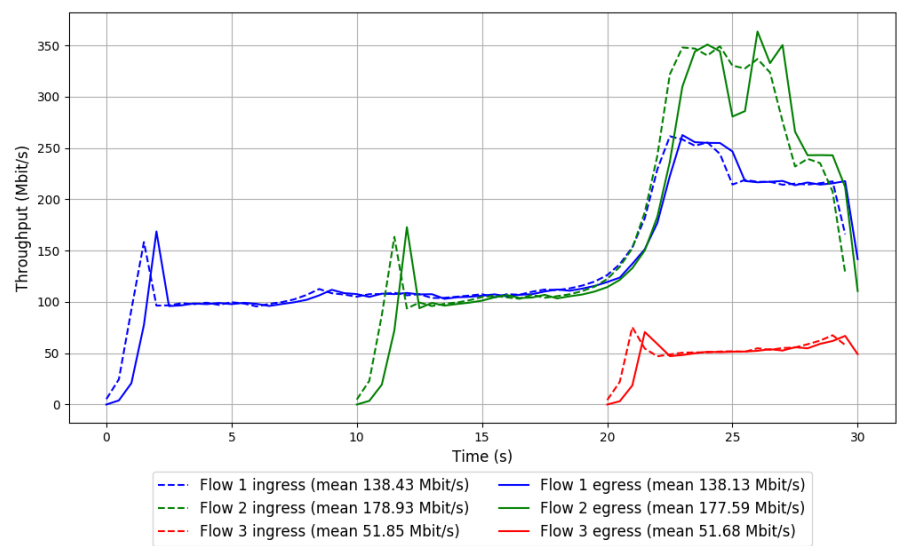
-- Flow 3:

Average throughput: 51.68 Mbit/s

95th percentile per-packet one-way delay: 53.914 ms

Loss rate: 1.55%

Run 5: Report of PCC-Expr — Data Link

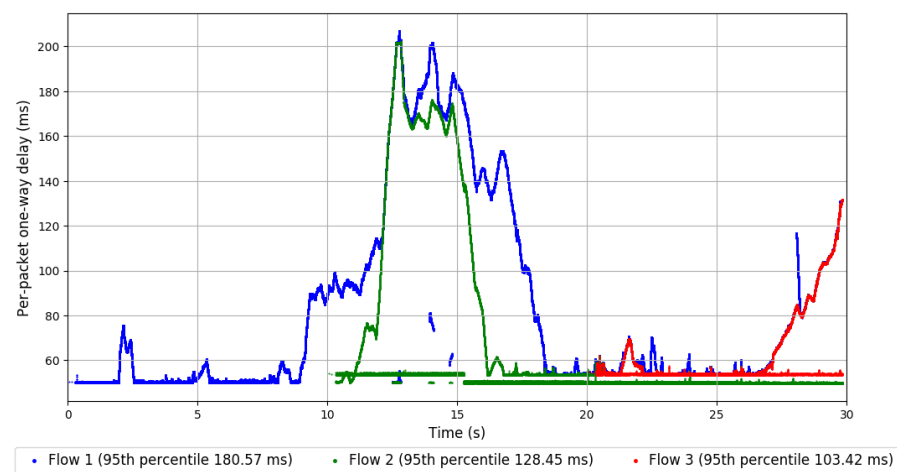
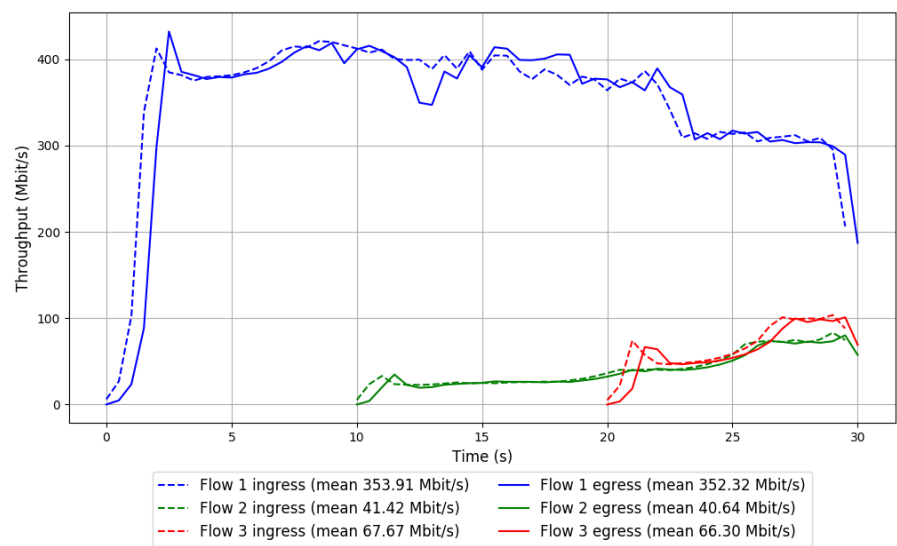


Run 6: Statistics of PCC-Expr

Start at: 2018-06-21 00:04:27
End at: 2018-06-21 00:04:57
Local clock offset: -0.077 ms
Remote clock offset: -0.099 ms

Below is generated by plot.py at 2018-06-21 03:34:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 401.00 Mbit/s
95th percentile per-packet one-way delay: 179.073 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 352.32 Mbit/s
95th percentile per-packet one-way delay: 180.569 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 40.64 Mbit/s
95th percentile per-packet one-way delay: 128.448 ms
Loss rate: 2.41%
-- Flow 3:
Average throughput: 66.30 Mbit/s
95th percentile per-packet one-way delay: 103.424 ms
Loss rate: 3.09%

Run 6: Report of PCC-Expr — Data Link

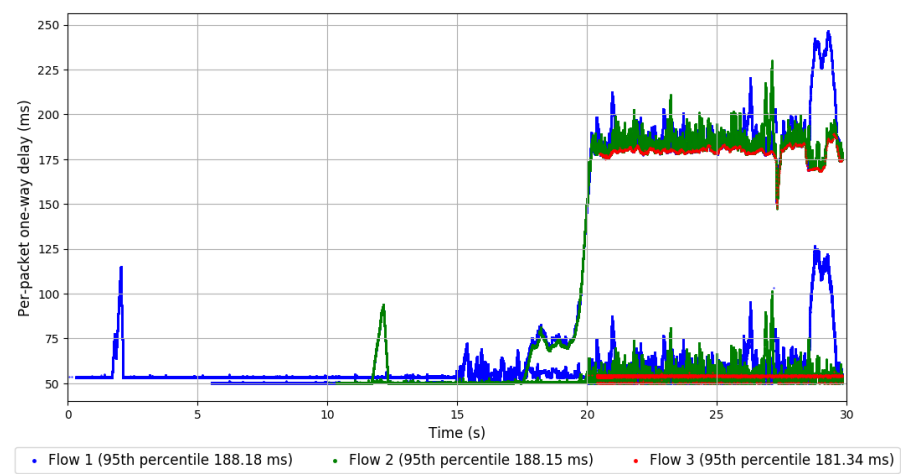
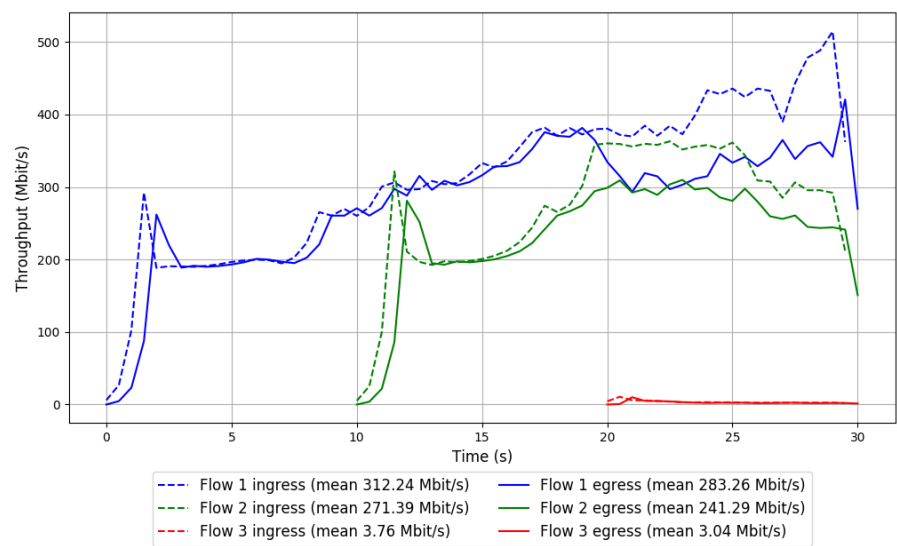


Run 7: Statistics of PCC-Expr

Start at: 2018-06-21 00:27:57
End at: 2018-06-21 00:28:27
Local clock offset: 0.036 ms
Remote clock offset: -0.101 ms

Below is generated by plot.py at 2018-06-21 03:37:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 444.45 Mbit/s
95th percentile per-packet one-way delay: 188.149 ms
Loss rate: 10.34%
-- Flow 1:
Average throughput: 283.26 Mbit/s
95th percentile per-packet one-way delay: 188.183 ms
Loss rate: 9.60%
-- Flow 2:
Average throughput: 241.29 Mbit/s
95th percentile per-packet one-way delay: 188.151 ms
Loss rate: 11.55%
-- Flow 3:
Average throughput: 3.04 Mbit/s
95th percentile per-packet one-way delay: 181.343 ms
Loss rate: 19.91%

Run 7: Report of PCC-Expr — Data Link

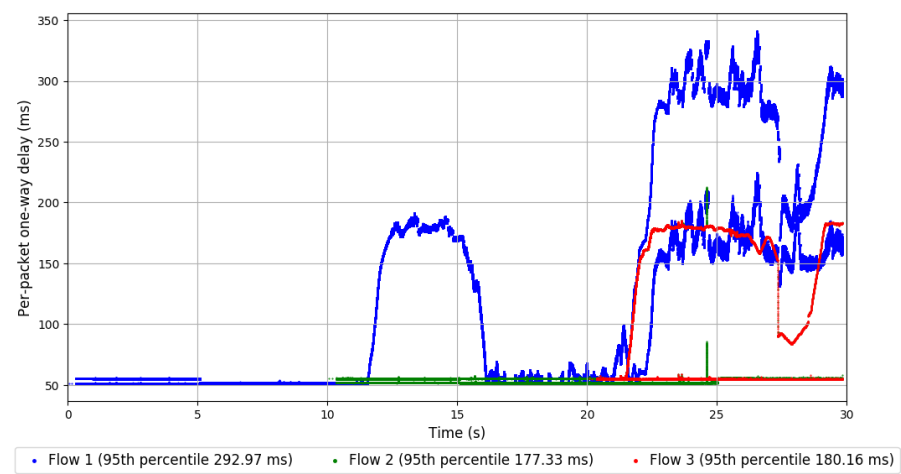
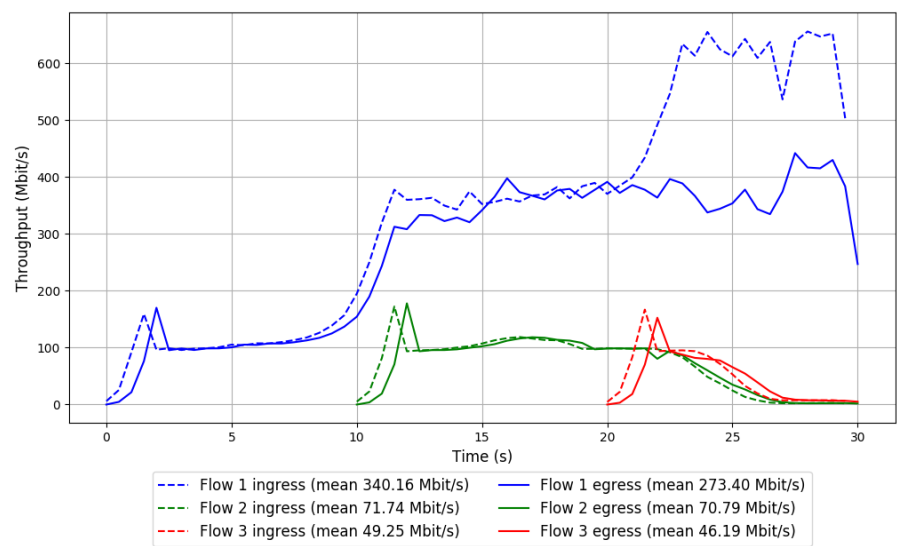


Run 8: Statistics of PCC-Expr

Start at: 2018-06-21 00:50:57
End at: 2018-06-21 00:51:27
Local clock offset: 0.29 ms
Remote clock offset: -1.257 ms

Below is generated by plot.py at 2018-06-21 03:37:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 335.50 Mbit/s
95th percentile per-packet one-way delay: 288.793 ms
Loss rate: 17.26%
-- Flow 1:
Average throughput: 273.40 Mbit/s
95th percentile per-packet one-way delay: 292.973 ms
Loss rate: 19.90%
-- Flow 2:
Average throughput: 70.79 Mbit/s
95th percentile per-packet one-way delay: 177.334 ms
Loss rate: 1.83%
-- Flow 3:
Average throughput: 46.19 Mbit/s
95th percentile per-packet one-way delay: 180.162 ms
Loss rate: 7.23%

Run 8: Report of PCC-Expr — Data Link

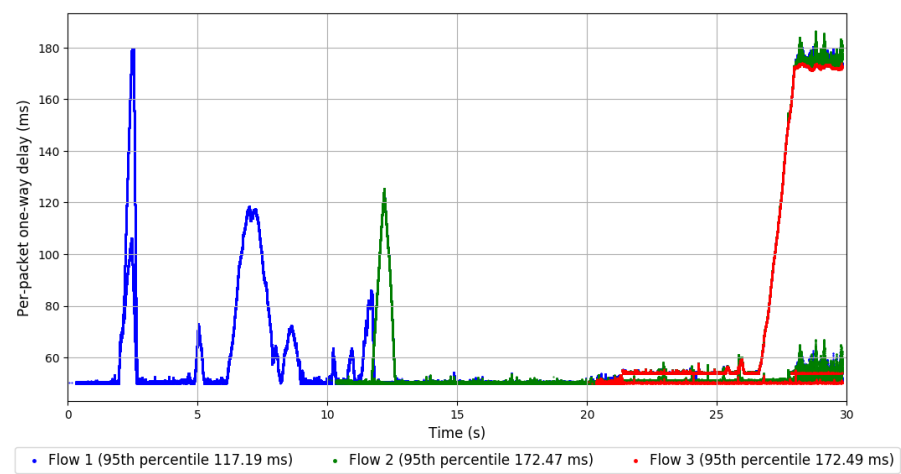
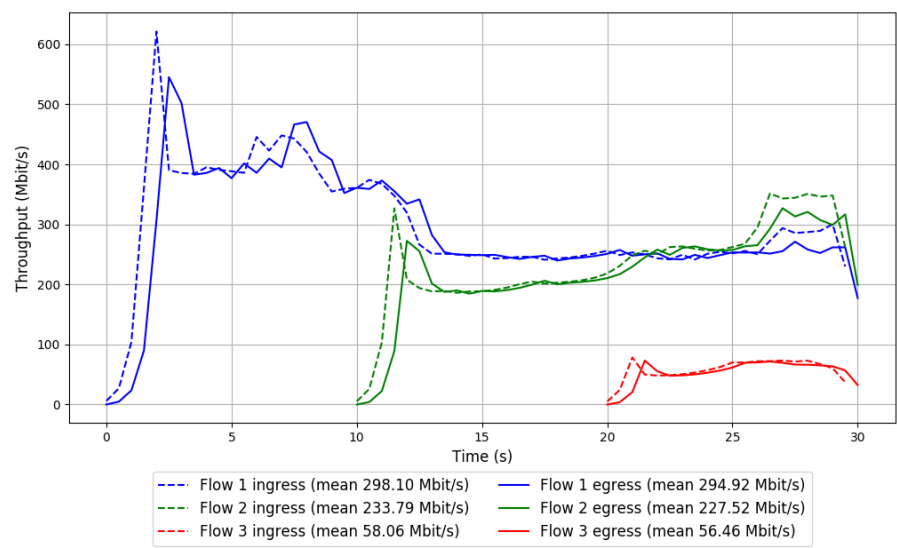


Run 9: Statistics of PCC-Expr

Start at: 2018-06-21 01:14:01
End at: 2018-06-21 01:14:31
Local clock offset: -0.096 ms
Remote clock offset: -0.361 ms

Below is generated by plot.py at 2018-06-21 03:40:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 464.53 Mbit/s
95th percentile per-packet one-way delay: 147.465 ms
Loss rate: 2.08%
-- Flow 1:
Average throughput: 294.92 Mbit/s
95th percentile per-packet one-way delay: 117.185 ms
Loss rate: 1.40%
-- Flow 2:
Average throughput: 227.52 Mbit/s
95th percentile per-packet one-way delay: 172.465 ms
Loss rate: 3.18%
-- Flow 3:
Average throughput: 56.46 Mbit/s
95th percentile per-packet one-way delay: 172.489 ms
Loss rate: 3.74%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-06-21 01:37:23

End at: 2018-06-21 01:37:53

Local clock offset: -0.102 ms

Remote clock offset: 1.309 ms

Below is generated by plot.py at 2018-06-21 03:40:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 243.94 Mbit/s

95th percentile per-packet one-way delay: 118.808 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 102.73 Mbit/s

95th percentile per-packet one-way delay: 52.551 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 165.72 Mbit/s

95th percentile per-packet one-way delay: 147.907 ms

Loss rate: 1.36%

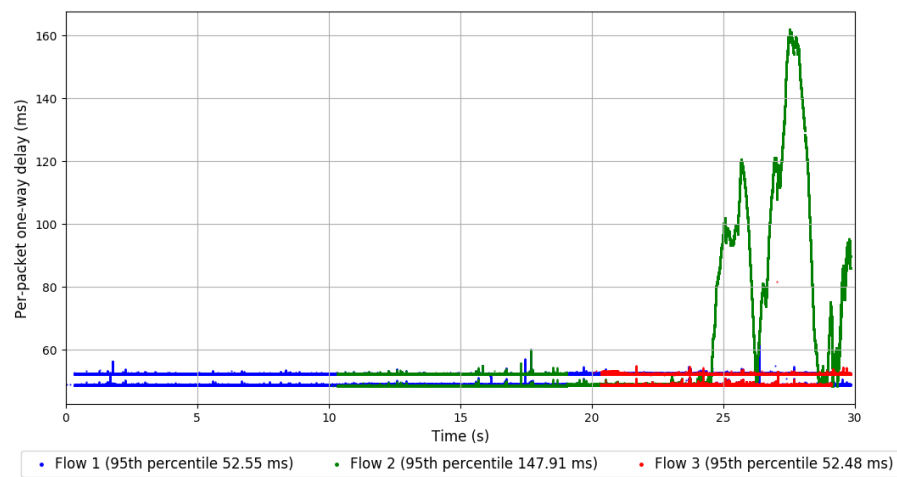
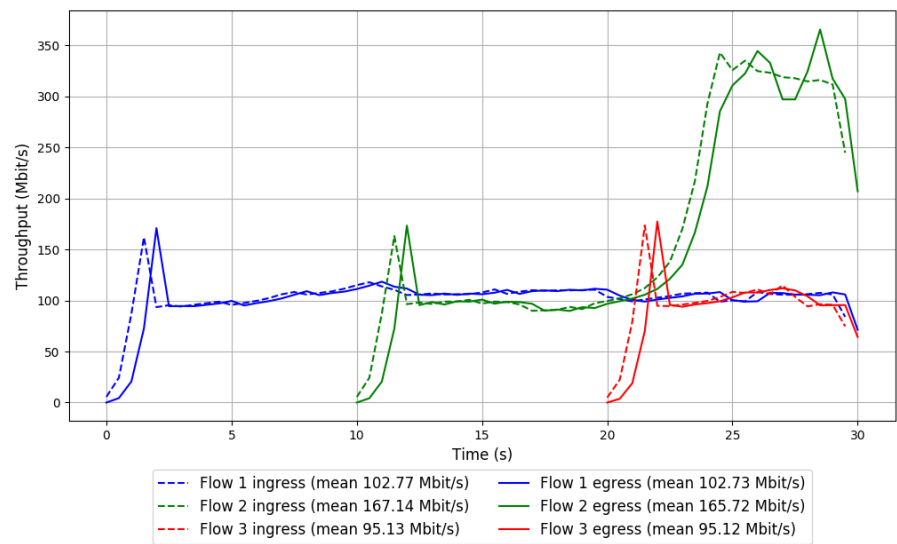
-- Flow 3:

Average throughput: 95.12 Mbit/s

95th percentile per-packet one-way delay: 52.485 ms

Loss rate: 1.09%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-06-20 21:53:54

End at: 2018-06-20 21:54:24

Local clock offset: -0.129 ms

Remote clock offset: 1.519 ms

Below is generated by plot.py at 2018-06-21 03:40:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.53 Mbit/s

95th percentile per-packet one-way delay: 52.245 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 73.70 Mbit/s

95th percentile per-packet one-way delay: 52.187 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 55.62 Mbit/s

95th percentile per-packet one-way delay: 52.277 ms

Loss rate: 0.53%

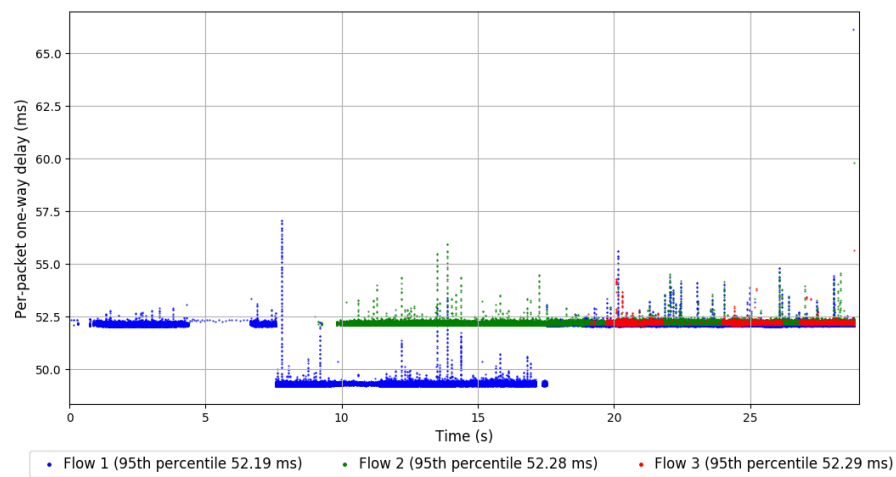
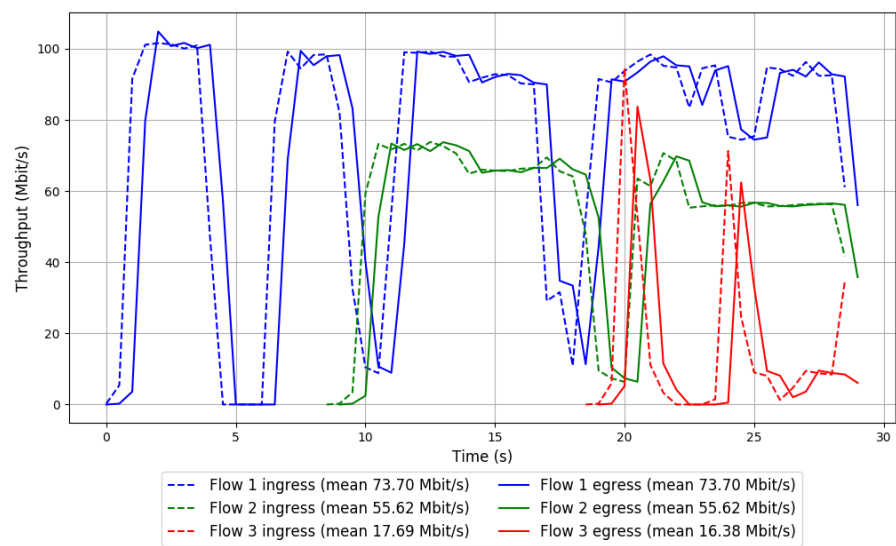
-- Flow 3:

Average throughput: 16.38 Mbit/s

95th percentile per-packet one-way delay: 52.289 ms

Loss rate: 8.38%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-06-20 22:17:03

End at: 2018-06-20 22:17:33

Local clock offset: 0.061 ms

Remote clock offset: 0.35 ms

Below is generated by plot.py at 2018-06-21 03:40:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.41 Mbit/s

95th percentile per-packet one-way delay: 53.812 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 65.36 Mbit/s

95th percentile per-packet one-way delay: 50.420 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 51.98 Mbit/s

95th percentile per-packet one-way delay: 50.302 ms

Loss rate: 0.71%

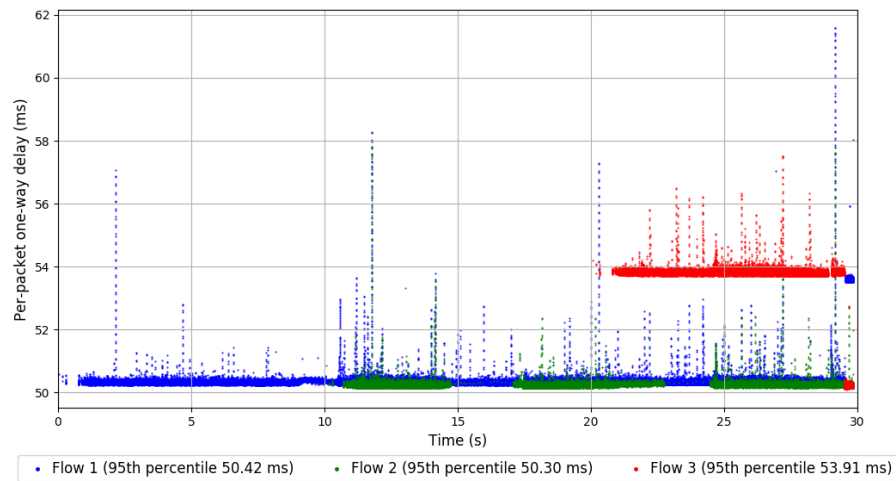
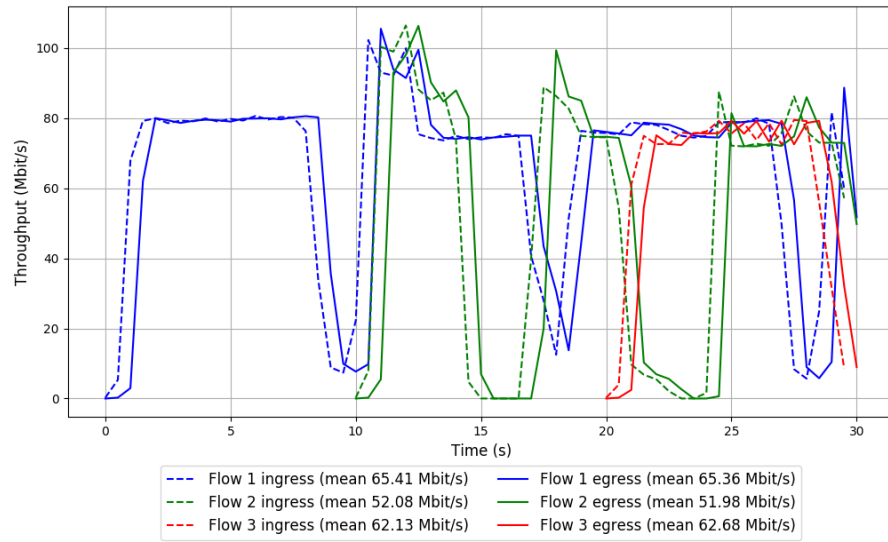
-- Flow 3:

Average throughput: 62.68 Mbit/s

95th percentile per-packet one-way delay: 53.913 ms

Loss rate: 0.15%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-20 22:39:57

End at: 2018-06-20 22:40:27

Local clock offset: 0.122 ms

Remote clock offset: 0.171 ms

Below is generated by plot.py at 2018-06-21 03:40:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 113.14 Mbit/s

95th percentile per-packet one-way delay: 53.943 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 68.99 Mbit/s

95th percentile per-packet one-way delay: 53.820 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 36.61 Mbit/s

95th percentile per-packet one-way delay: 54.009 ms

Loss rate: 1.30%

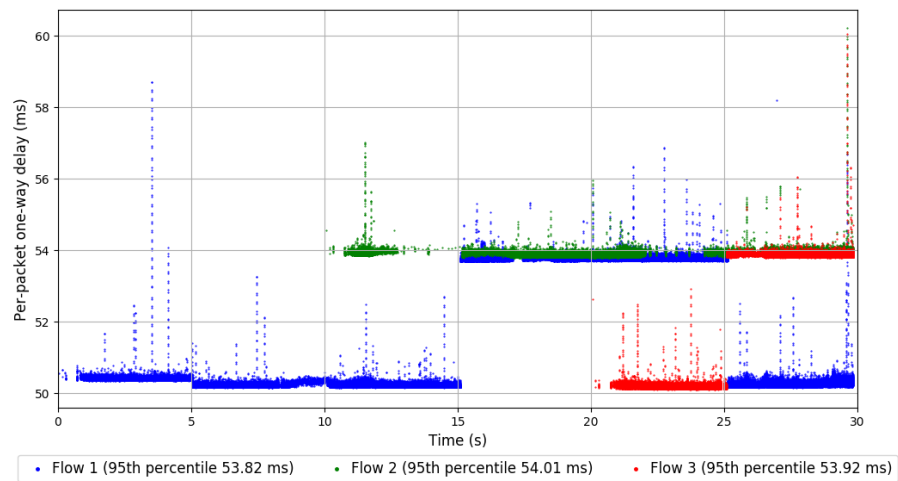
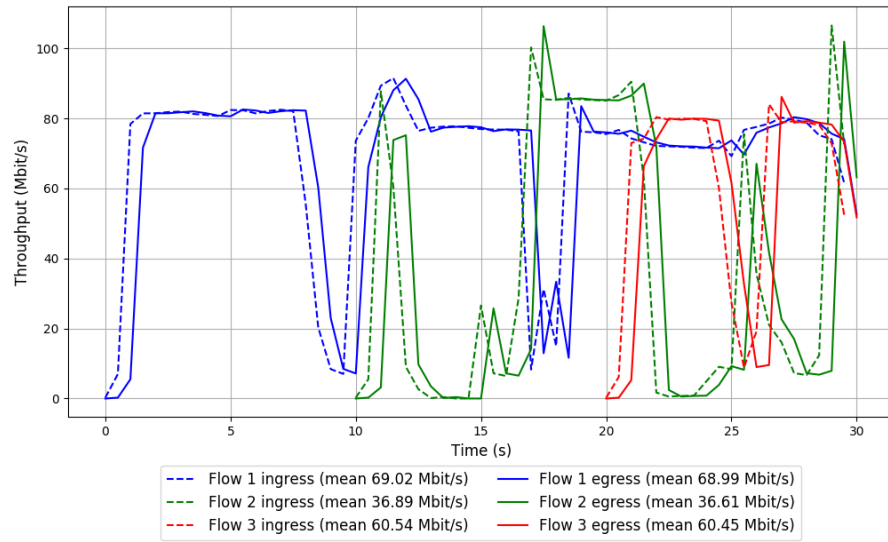
-- Flow 3:

Average throughput: 60.45 Mbit/s

95th percentile per-packet one-way delay: 53.922 ms

Loss rate: 0.72%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-20 23:02:47

End at: 2018-06-20 23:03:17

Local clock offset: -0.099 ms

Remote clock offset: 1.701 ms

Below is generated by plot.py at 2018-06-21 03:40:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.99 Mbit/s

95th percentile per-packet one-way delay: 52.323 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 50.35 Mbit/s

95th percentile per-packet one-way delay: 52.335 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 36.30 Mbit/s

95th percentile per-packet one-way delay: 52.322 ms

Loss rate: 1.33%

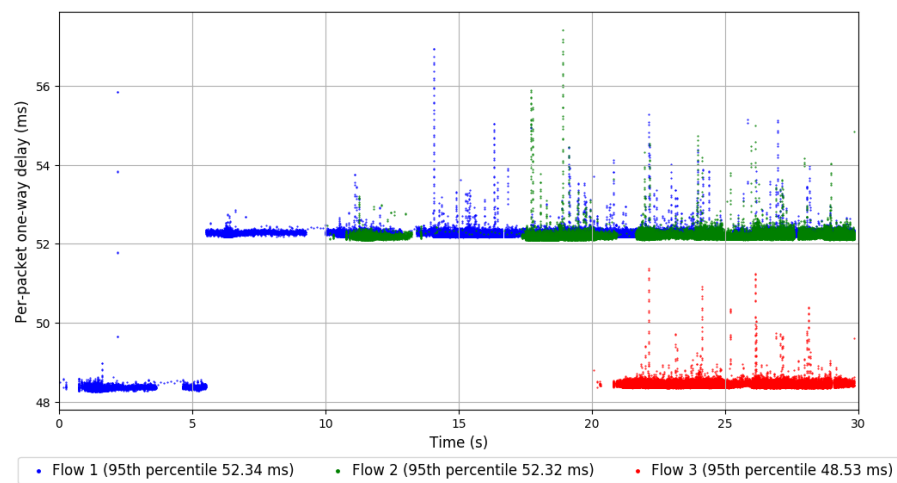
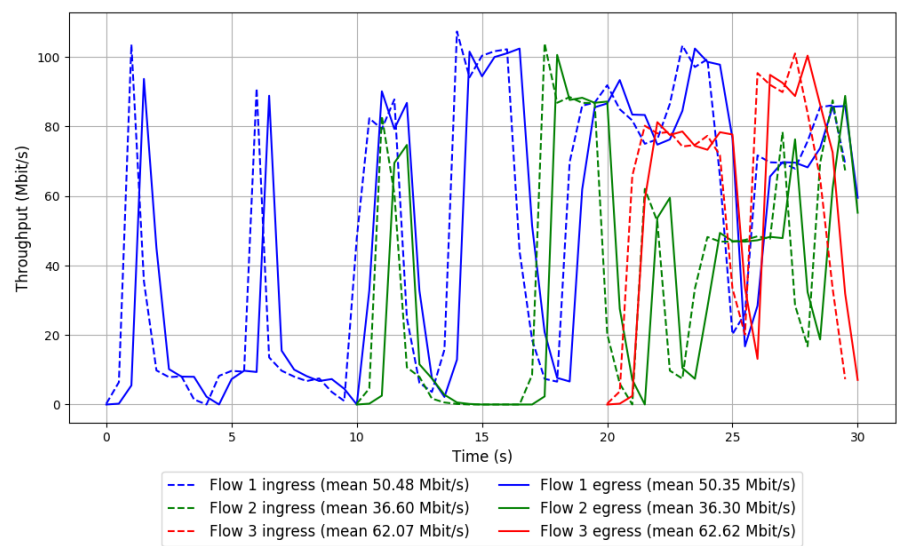
-- Flow 3:

Average throughput: 62.62 Mbit/s

95th percentile per-packet one-way delay: 48.531 ms

Loss rate: 0.14%

Run 4: Report of QUIC Cubic — Data Link

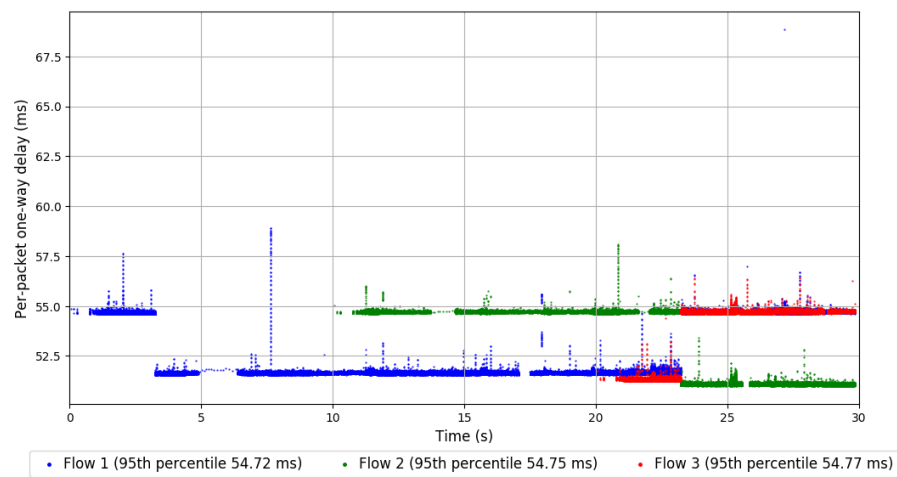
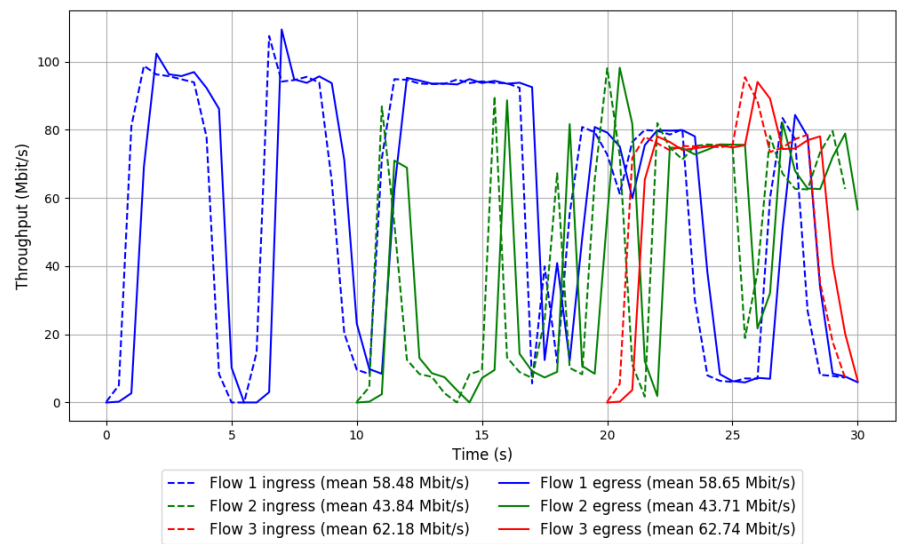


Run 5: Statistics of QUIC Cubic

Start at: 2018-06-20 23:25:39
End at: 2018-06-20 23:26:09
Local clock offset: -0.189 ms
Remote clock offset: -0.859 ms

Below is generated by plot.py at 2018-06-21 03:40:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 108.29 Mbit/s
95th percentile per-packet one-way delay: 54.744 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 58.65 Mbit/s
95th percentile per-packet one-way delay: 54.721 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 43.71 Mbit/s
95th percentile per-packet one-way delay: 54.749 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 62.74 Mbit/s
95th percentile per-packet one-way delay: 54.768 ms
Loss rate: 0.15%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-06-20 23:48:25

End at: 2018-06-20 23:48:55

Local clock offset: -0.175 ms

Remote clock offset: 1.047 ms

Below is generated by plot.py at 2018-06-21 03:40:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.33 Mbit/s

95th percentile per-packet one-way delay: 52.559 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 78.10 Mbit/s

95th percentile per-packet one-way delay: 52.574 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 45.83 Mbit/s

95th percentile per-packet one-way delay: 49.088 ms

Loss rate: 0.88%

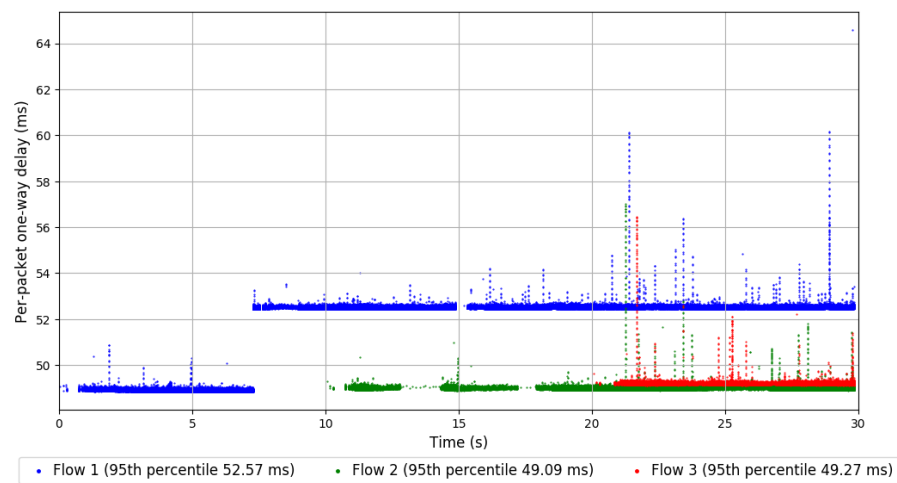
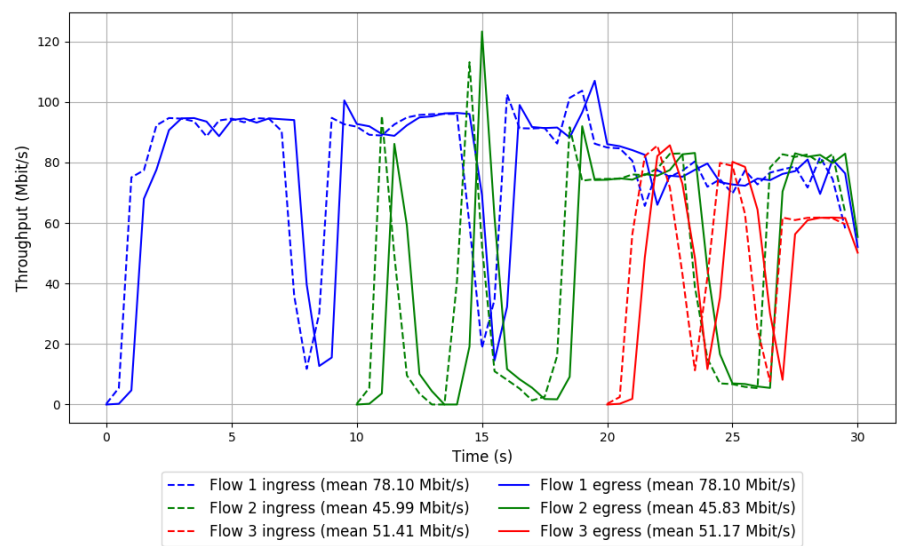
-- Flow 3:

Average throughput: 51.17 Mbit/s

95th percentile per-packet one-way delay: 49.274 ms

Loss rate: 1.52%

Run 6: Report of QUIC Cubic — Data Link

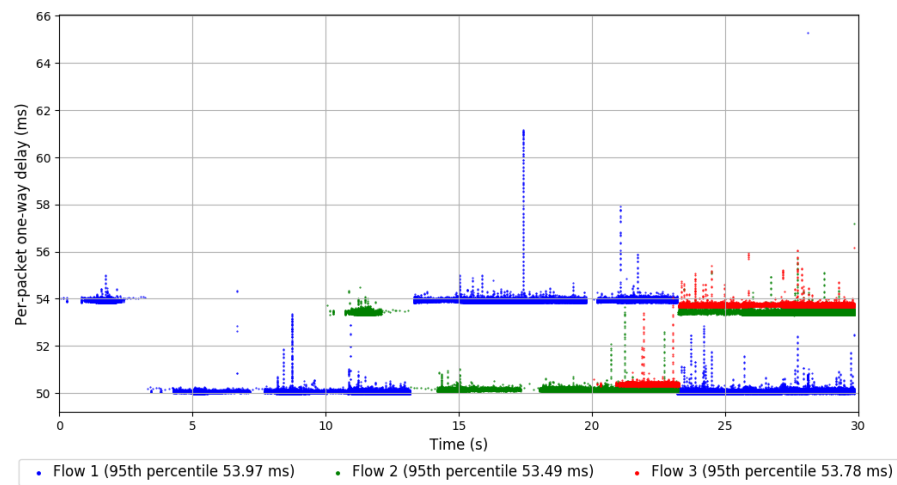
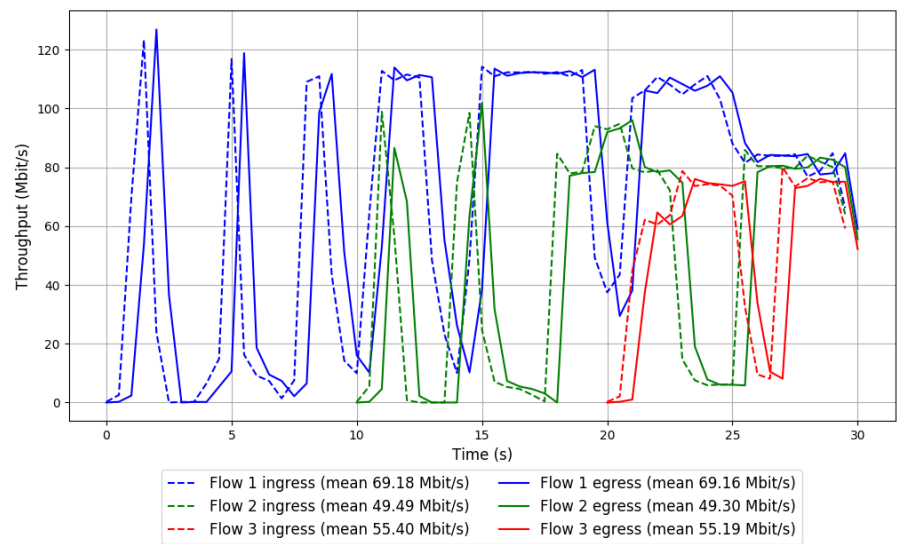


Run 7: Statistics of QUIC Cubic

Start at: 2018-06-21 00:11:29
End at: 2018-06-21 00:11:59
Local clock offset: 0.194 ms
Remote clock offset: -0.167 ms

Below is generated by plot.py at 2018-06-21 03:40:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 120.01 Mbit/s
95th percentile per-packet one-way delay: 53.953 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 69.16 Mbit/s
95th percentile per-packet one-way delay: 53.972 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 49.30 Mbit/s
95th percentile per-packet one-way delay: 53.487 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 55.19 Mbit/s
95th percentile per-packet one-way delay: 53.783 ms
Loss rate: 1.38%

Run 7: Report of QUIC Cubic — Data Link

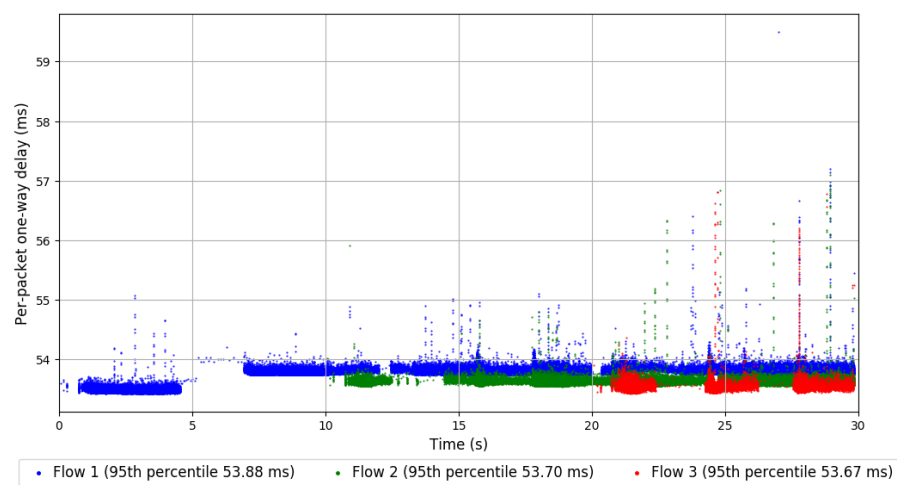
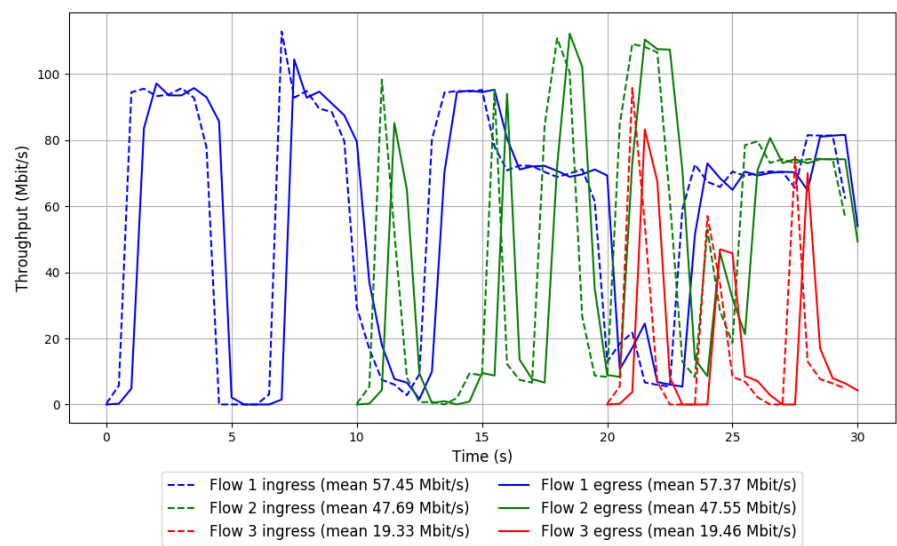


Run 8: Statistics of QUIC Cubic

Start at: 2018-06-21 00:34:57
End at: 2018-06-21 00:35:27
Local clock offset: 0.111 ms
Remote clock offset: -0.574 ms

Below is generated by plot.py at 2018-06-21 03:40:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.31 Mbit/s
95th percentile per-packet one-way delay: 53.862 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 57.37 Mbit/s
95th percentile per-packet one-way delay: 53.880 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 47.55 Mbit/s
95th percentile per-packet one-way delay: 53.704 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 19.46 Mbit/s
95th percentile per-packet one-way delay: 53.668 ms
Loss rate: 0.35%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-06-21 00:57:53

End at: 2018-06-21 00:58:23

Local clock offset: -0.011 ms

Remote clock offset: 0.136 ms

Below is generated by plot.py at 2018-06-21 03:40:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 106.60 Mbit/s

95th percentile per-packet one-way delay: 49.807 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 47.80 Mbit/s

95th percentile per-packet one-way delay: 49.811 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 58.32 Mbit/s

95th percentile per-packet one-way delay: 49.699 ms

Loss rate: 0.74%

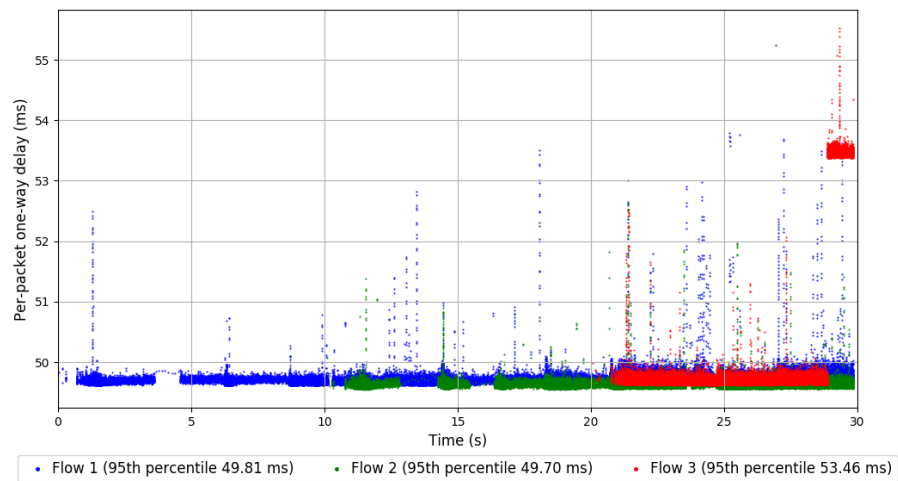
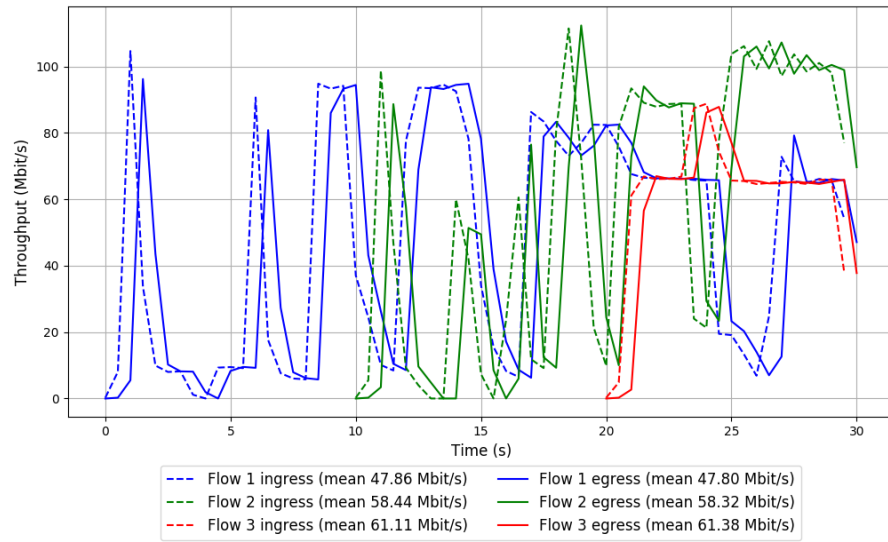
-- Flow 3:

Average throughput: 61.38 Mbit/s

95th percentile per-packet one-way delay: 53.459 ms

Loss rate: 0.61%

Run 9: Report of QUIC Cubic — Data Link

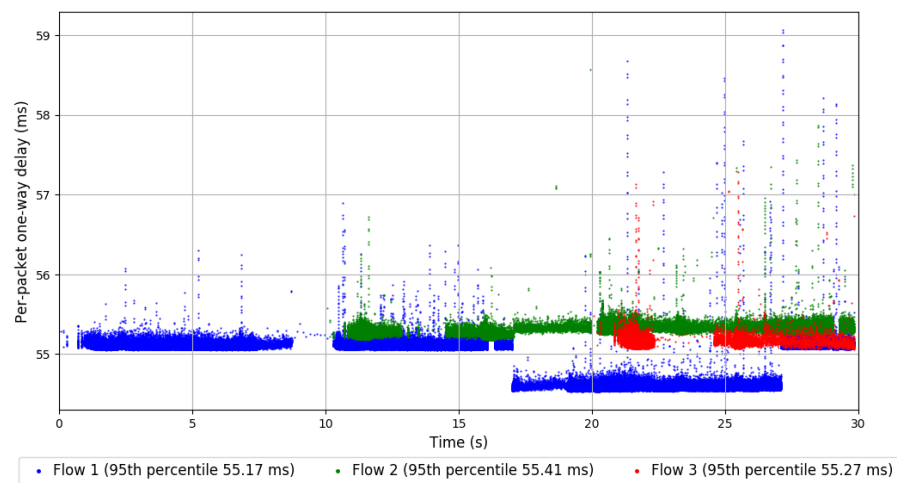
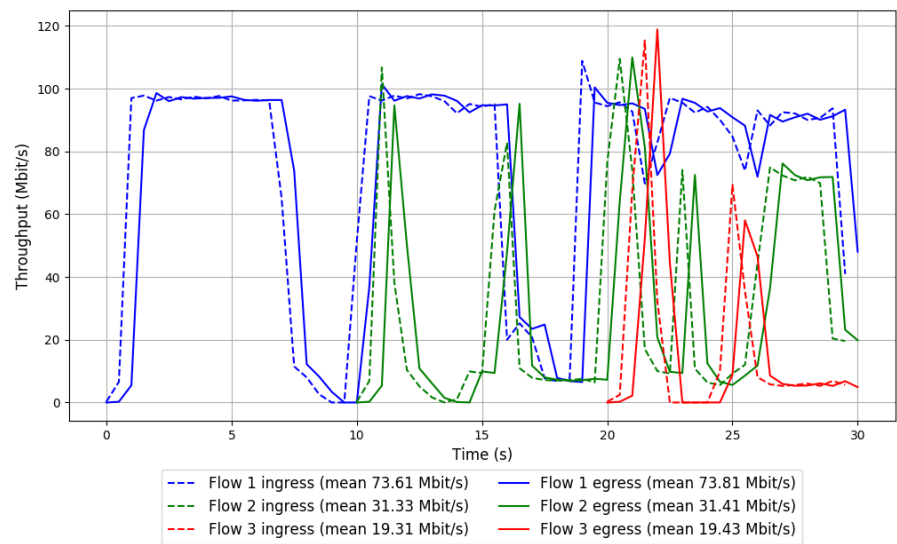


Run 10: Statistics of QUIC Cubic

Start at: 2018-06-21 01:21:05
End at: 2018-06-21 01:21:35
Local clock offset: 0.056 ms
Remote clock offset: -1.504 ms

Below is generated by plot.py at 2018-06-21 03:40:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 101.05 Mbit/s
95th percentile per-packet one-way delay: 55.355 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 73.81 Mbit/s
95th percentile per-packet one-way delay: 55.168 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 31.41 Mbit/s
95th percentile per-packet one-way delay: 55.414 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 19.43 Mbit/s
95th percentile per-packet one-way delay: 55.273 ms
Loss rate: 0.39%

Run 10: Report of QUIC Cubic — Data Link

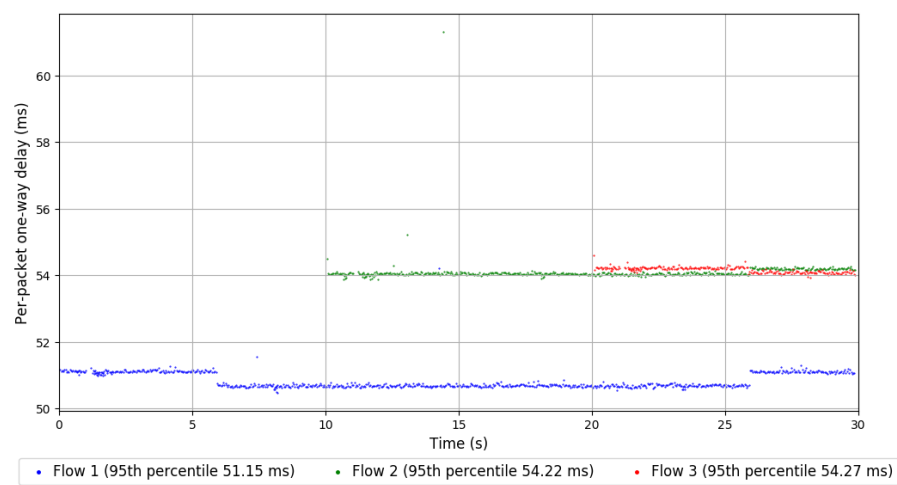
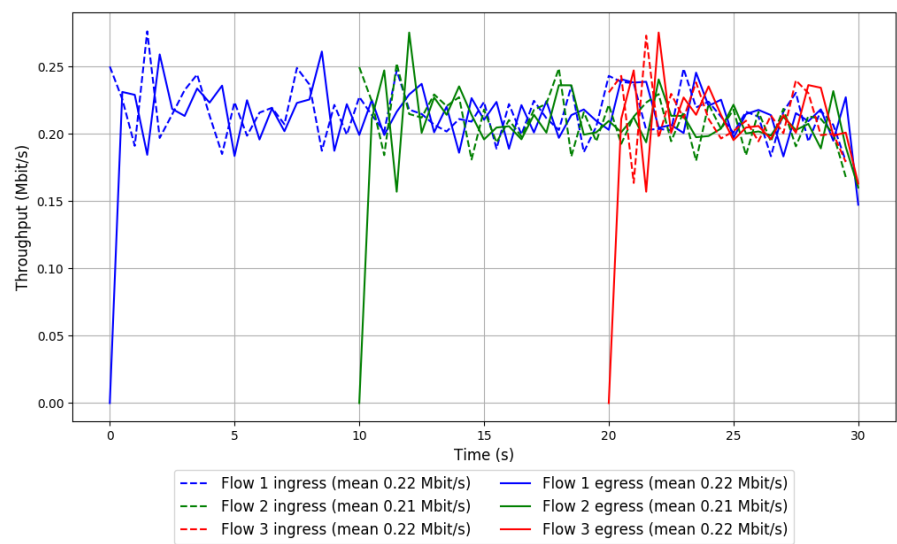


```
Run 1: Statistics of SReAM

Start at: 2018-06-20 22:02:46
End at: 2018-06-20 22:03:16
Local clock offset: 0.139 ms
Remote clock offset: 0.072 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 54.230 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.152 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.222 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.271 ms
Loss rate: 0.74%
```

Run 1: Report of SReAM — Data Link

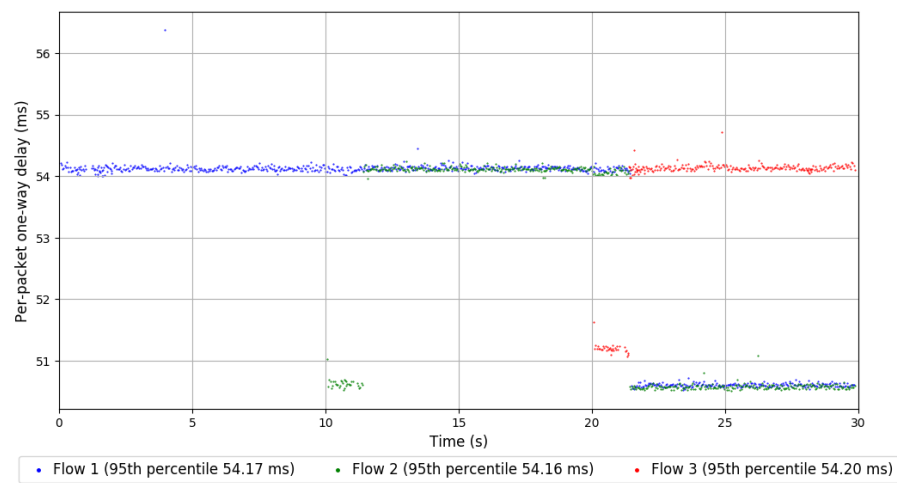
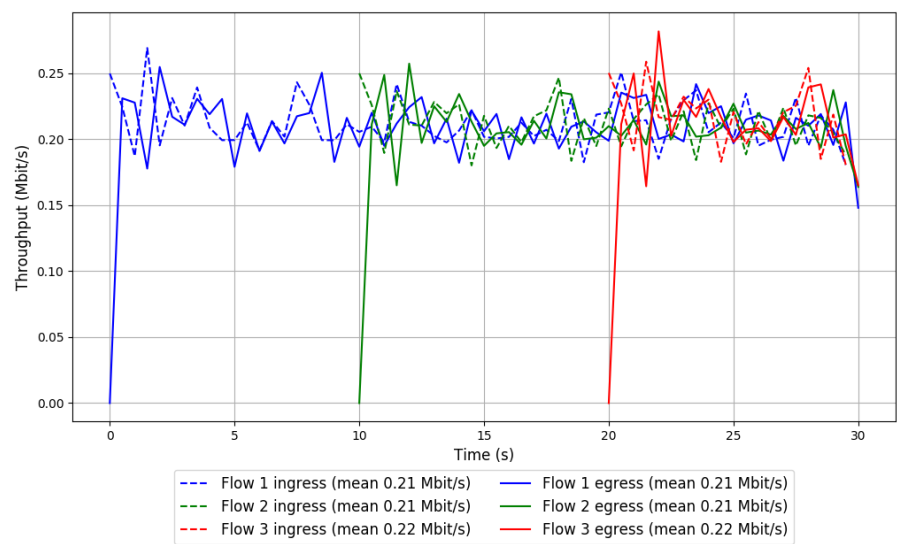


```
Run 2: Statistics of SCReAM

Start at: 2018-06-20 22:25:51
End at: 2018-06-20 22:26:21
Local clock offset: 0.032 ms
Remote clock offset: 0.11 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 54.177 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.175 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.155 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.198 ms
Loss rate: 1.08%
```

Run 2: Report of SReAM — Data Link

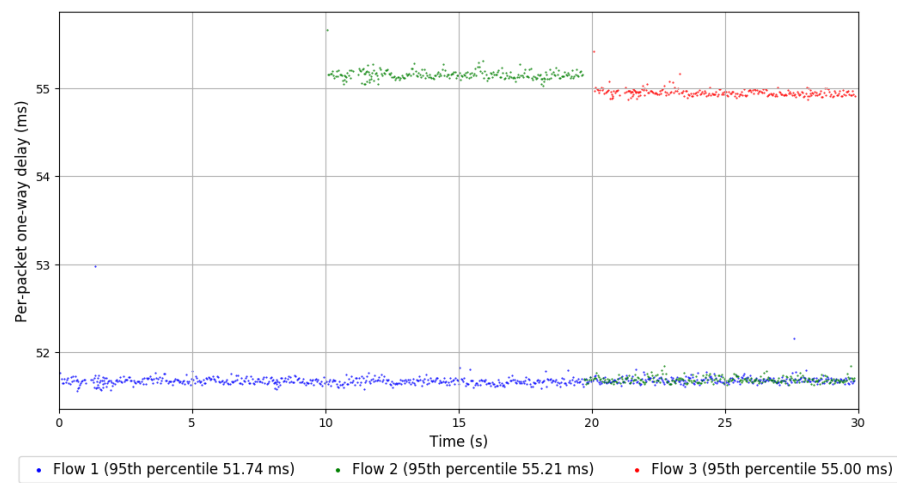
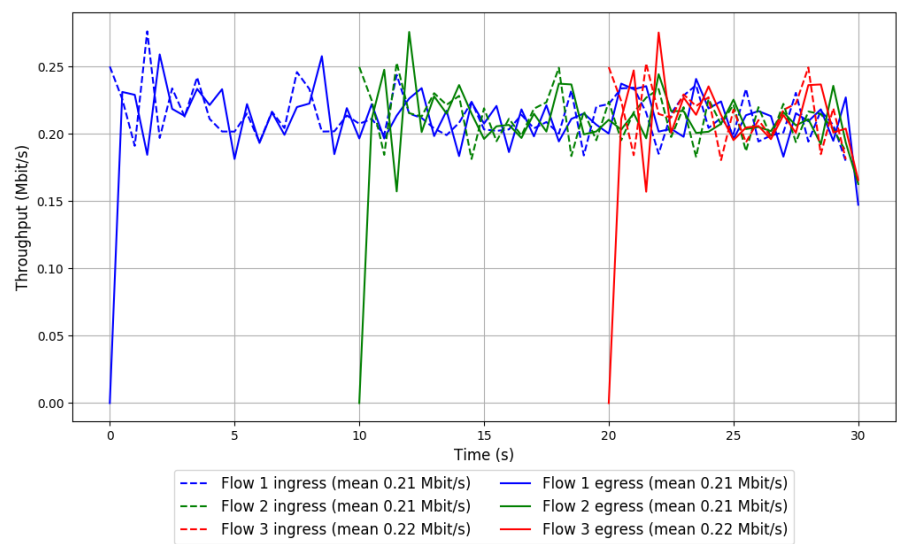


Run 3: Statistics of SCReAM

Start at: 2018-06-20 22:48:52
End at: 2018-06-20 22:49:22
Local clock offset: 0.092 ms
Remote clock offset: -0.965 ms

Below is generated by plot.py at 2018-06-21 03:40:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 55.169 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 51.739 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 55.208 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 55.004 ms
Loss rate: 1.10%

Run 3: Report of SReAM — Data Link

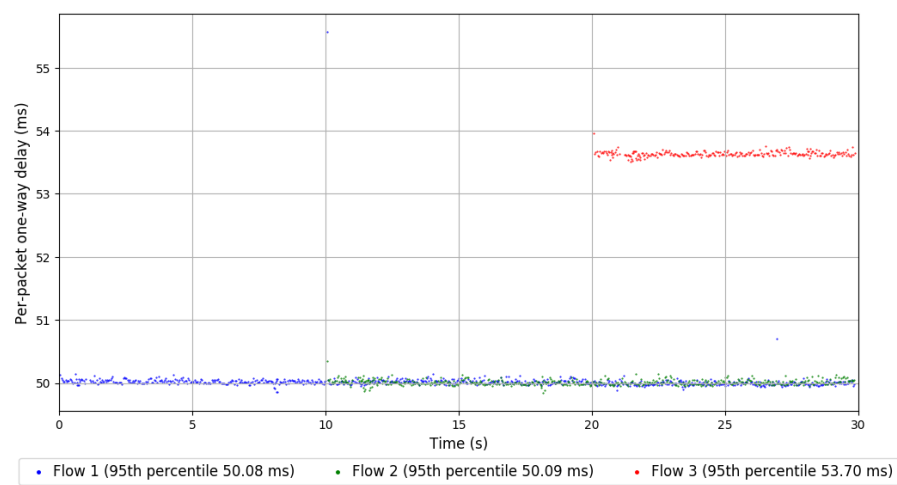
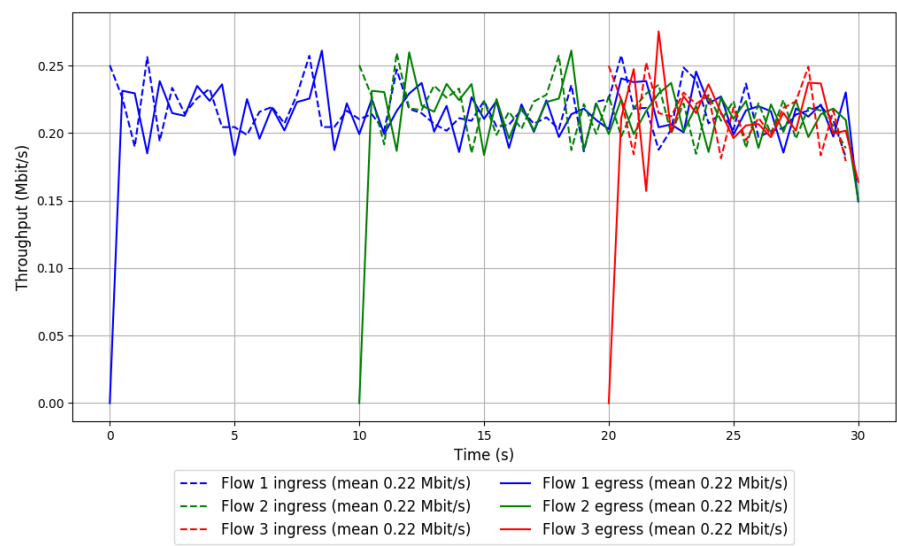


```
Run 4: Statistics of SReAM

Start at: 2018-06-20 23:11:38
End at: 2018-06-20 23:12:08
Local clock offset: -0.122 ms
Remote clock offset: 0.319 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.652 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.075 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.091 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.701 ms
Loss rate: 1.09%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-06-20 23:34:29

End at: 2018-06-20 23:34:59

Local clock offset: 0.176 ms

Remote clock offset: 1.703 ms

Below is generated by plot.py at 2018-06-21 03:40:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 52.748 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.044 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 52.698 ms

Loss rate: 0.62%

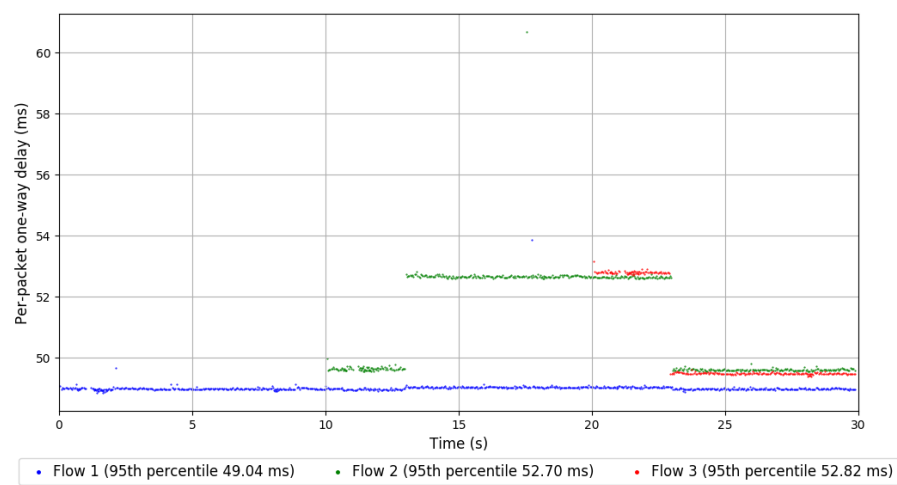
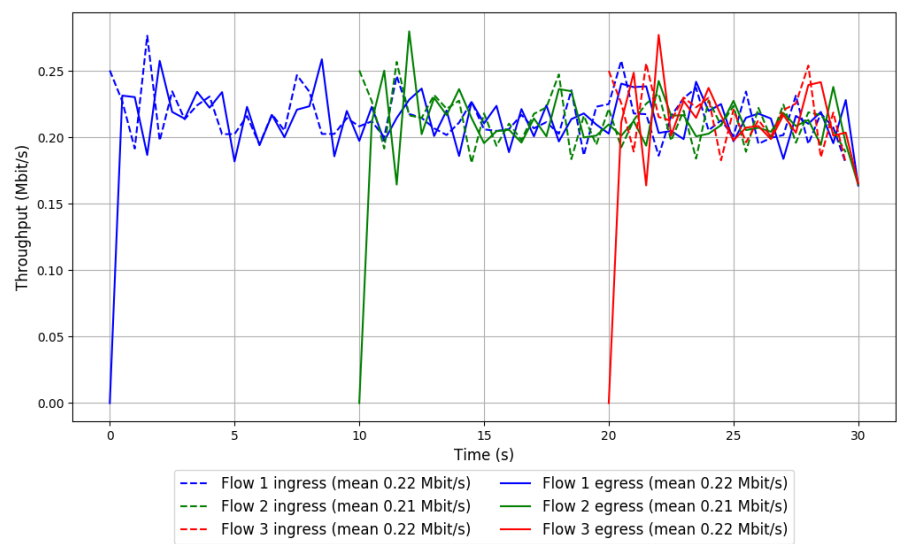
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 52.821 ms

Loss rate: 1.09%

Run 5: Report of SCReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-06-20 23:57:19

End at: 2018-06-20 23:57:49

Local clock offset: -0.047 ms

Remote clock offset: 0.028 ms

Below is generated by plot.py at 2018-06-21 03:40:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.703 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.651 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.733 ms

Loss rate: 0.61%

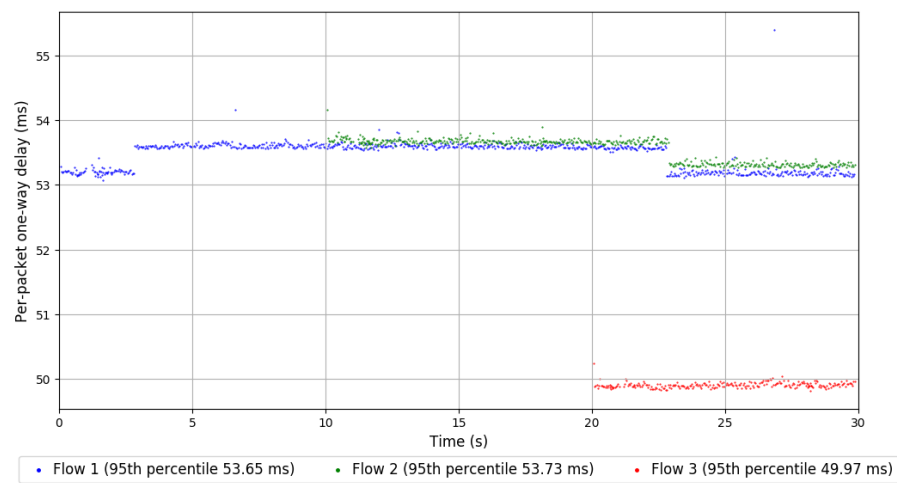
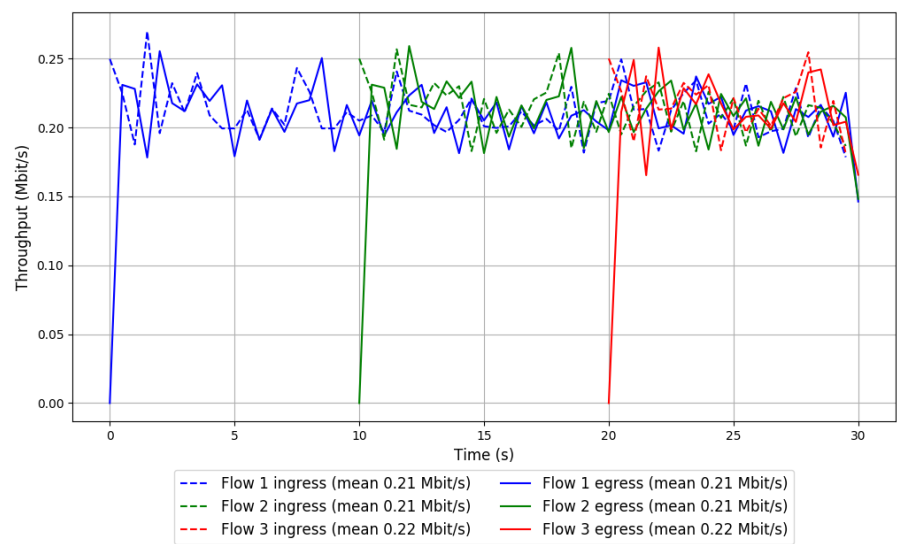
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.974 ms

Loss rate: 1.09%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-06-21 00:20:28

End at: 2018-06-21 00:20:58

Local clock offset: 0.141 ms

Remote clock offset: -0.25 ms

Below is generated by plot.py at 2018-06-21 03:40:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.911 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.239 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.937 ms

Loss rate: 0.61%

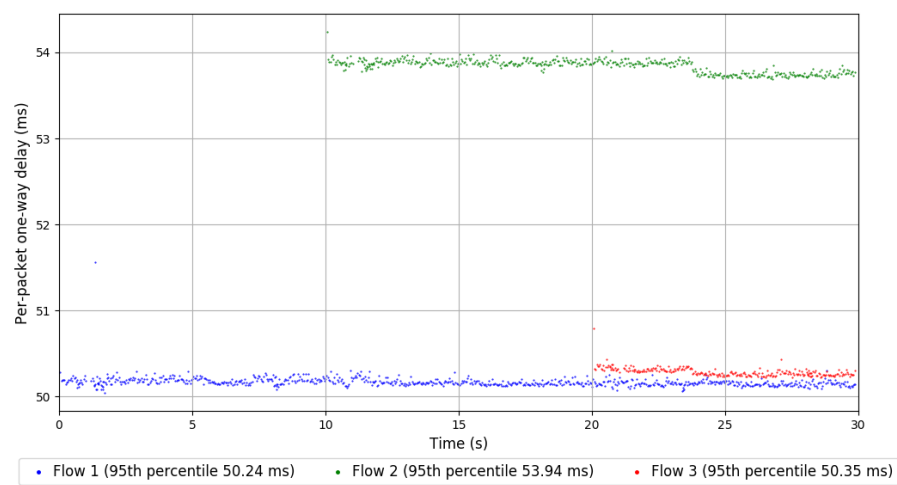
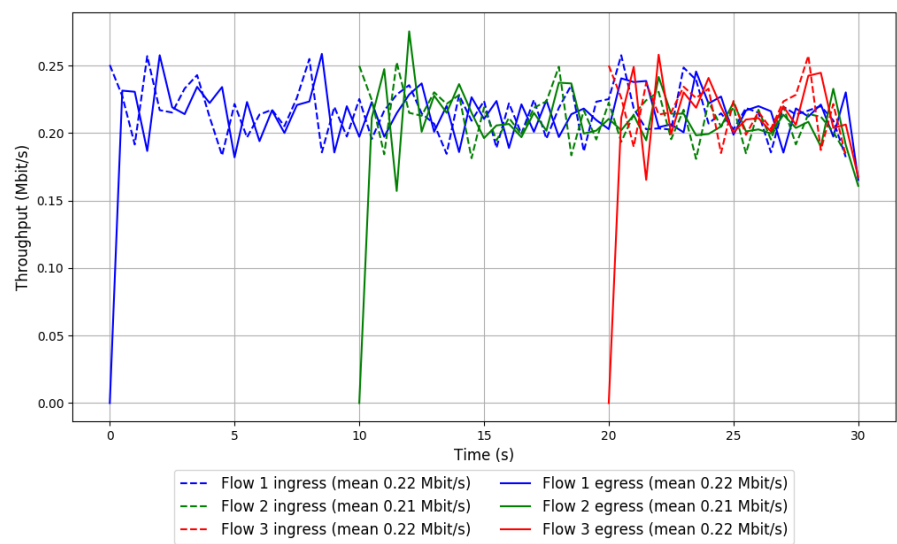
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.353 ms

Loss rate: 1.09%

Run 7: Report of SCReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-06-21 00:43:44

End at: 2018-06-21 00:44:14

Local clock offset: 0.131 ms

Remote clock offset: -0.58 ms

Below is generated by plot.py at 2018-06-21 03:40:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 54.064 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 54.085 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.888 ms

Loss rate: 0.61%

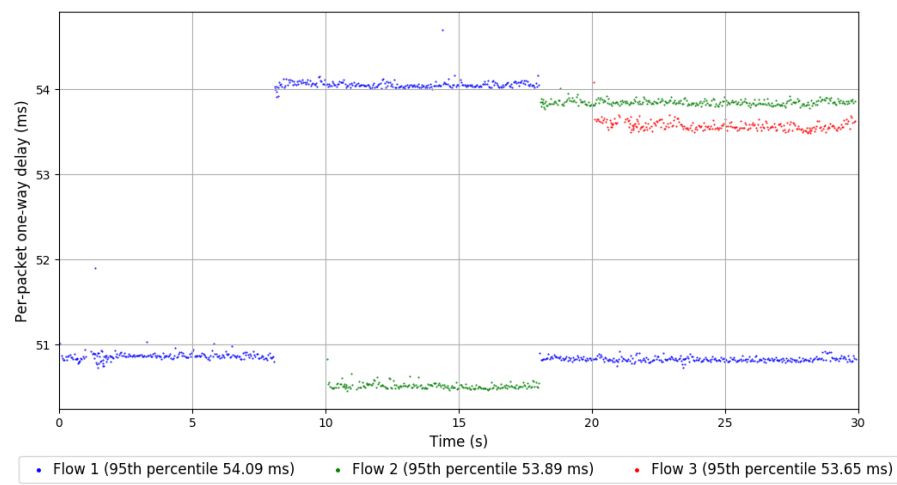
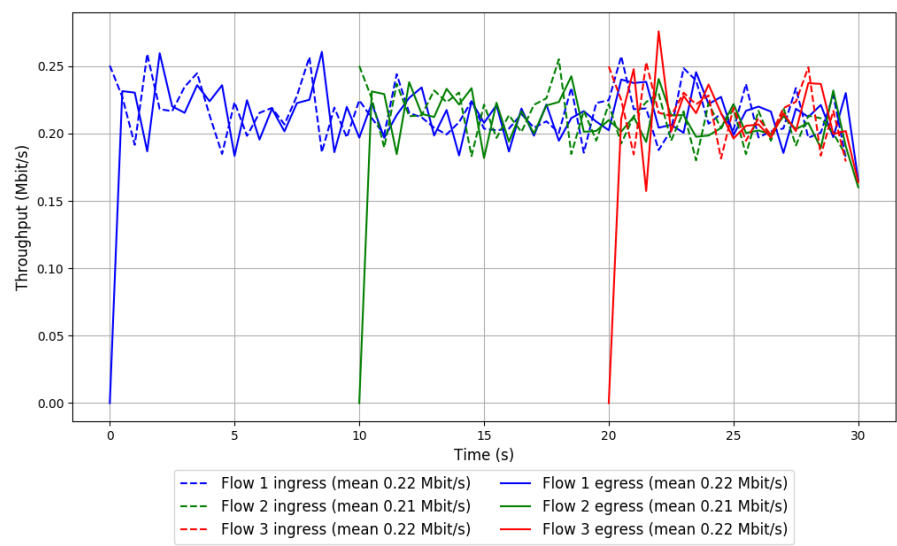
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.653 ms

Loss rate: 1.09%

Run 8: Report of SReAM — Data Link

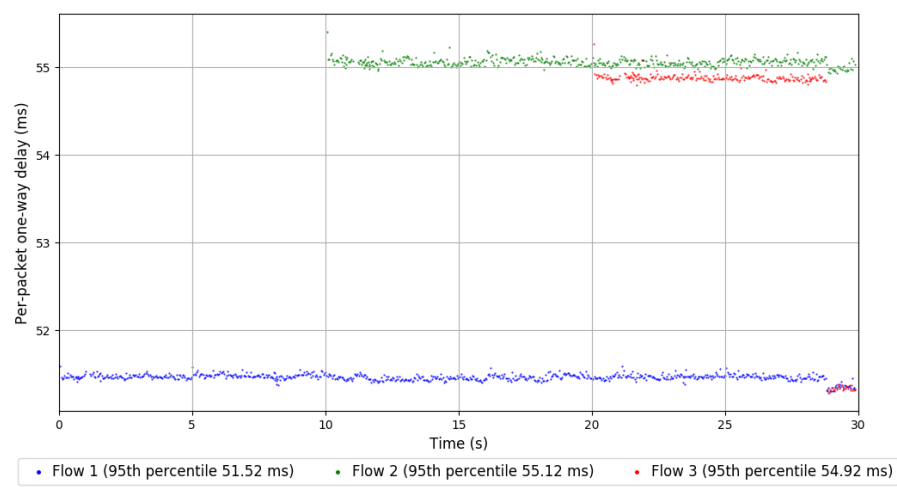
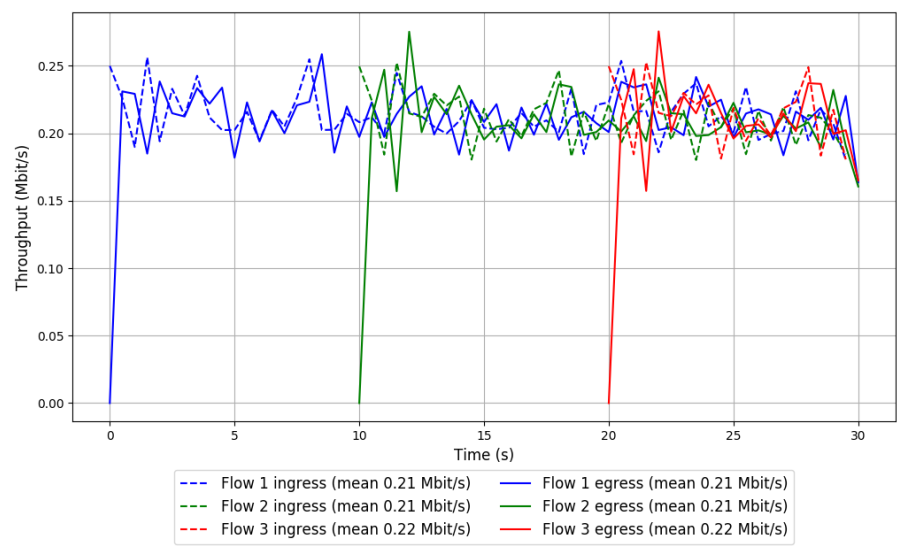


Run 9: Statistics of SReAM

Start at: 2018-06-21 01:06:53
End at: 2018-06-21 01:07:23
Local clock offset: -0.057 ms
Remote clock offset: -1.342 ms

Below is generated by plot.py at 2018-06-21 03:40:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 55.096 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 51.520 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 55.123 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.918 ms
Loss rate: 1.10%

Run 9: Report of SReAM — Data Link

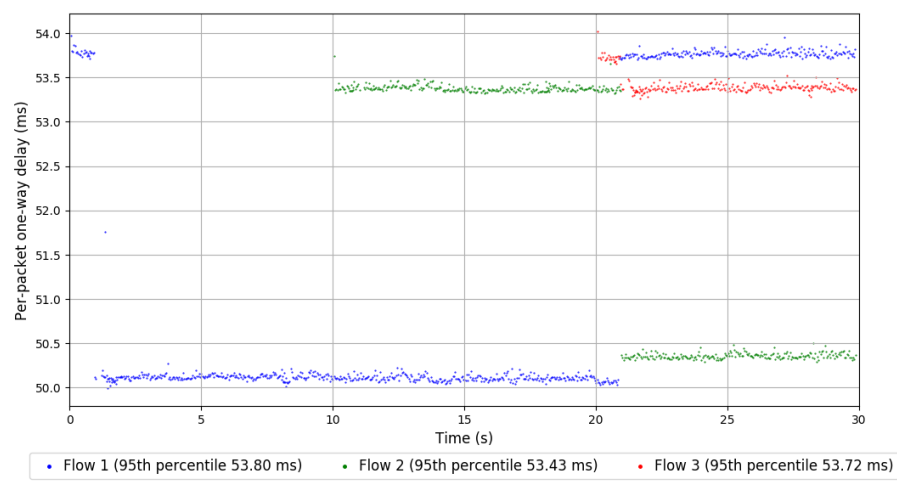
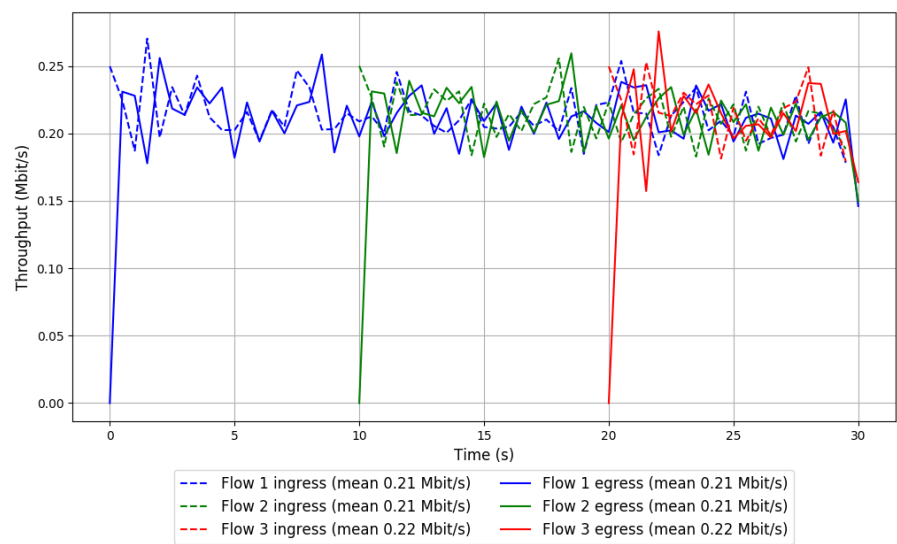


Run 10: Statistics of SReAM

Start at: 2018-06-21 01:30:01
End at: 2018-06-21 01:30:31
Local clock offset: -0.04 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2018-06-21 03:40:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.786 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.801 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.426 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.721 ms
Loss rate: 1.09%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-06-20 21:50:07

End at: 2018-06-20 21:50:37

Local clock offset: -0.004 ms

Remote clock offset: 0.198 ms

Below is generated by plot.py at 2018-06-21 03:40:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.28 Mbit/s

95th percentile per-packet one-way delay: 54.470 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 7.38 Mbit/s

95th percentile per-packet one-way delay: 54.521 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 7.10 Mbit/s

95th percentile per-packet one-way delay: 54.441 ms

Loss rate: 0.69%

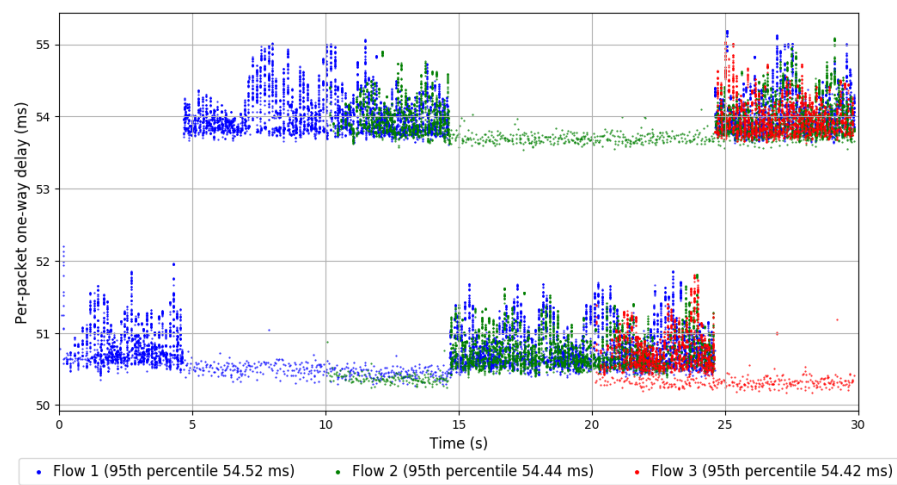
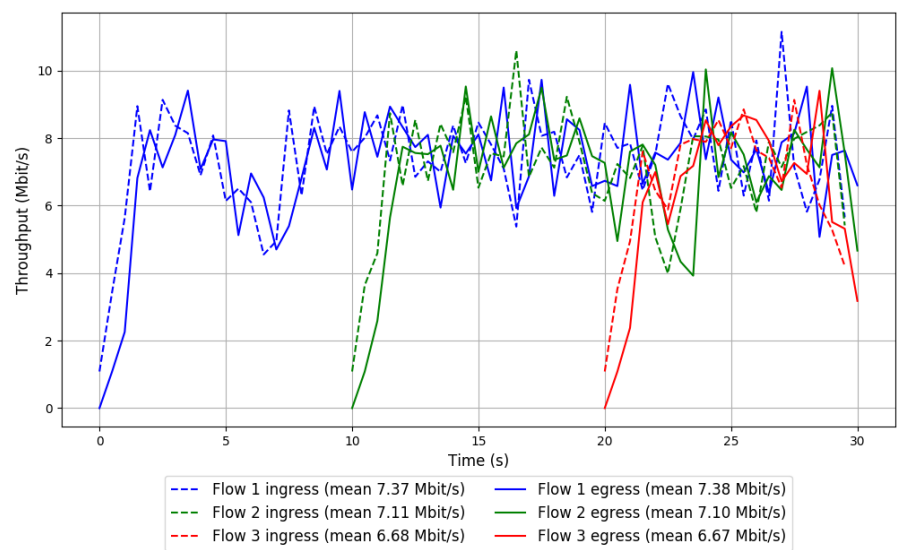
-- Flow 3:

Average throughput: 6.67 Mbit/s

95th percentile per-packet one-way delay: 54.421 ms

Loss rate: 1.15%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-06-20 22:13:17

End at: 2018-06-20 22:13:47

Local clock offset: -0.15 ms

Remote clock offset: 1.625 ms

Below is generated by plot.py at 2018-06-21 03:40:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.22 Mbit/s

95th percentile per-packet one-way delay: 53.264 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 6.75 Mbit/s

95th percentile per-packet one-way delay: 53.243 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 7.22 Mbit/s

95th percentile per-packet one-way delay: 53.387 ms

Loss rate: 0.37%

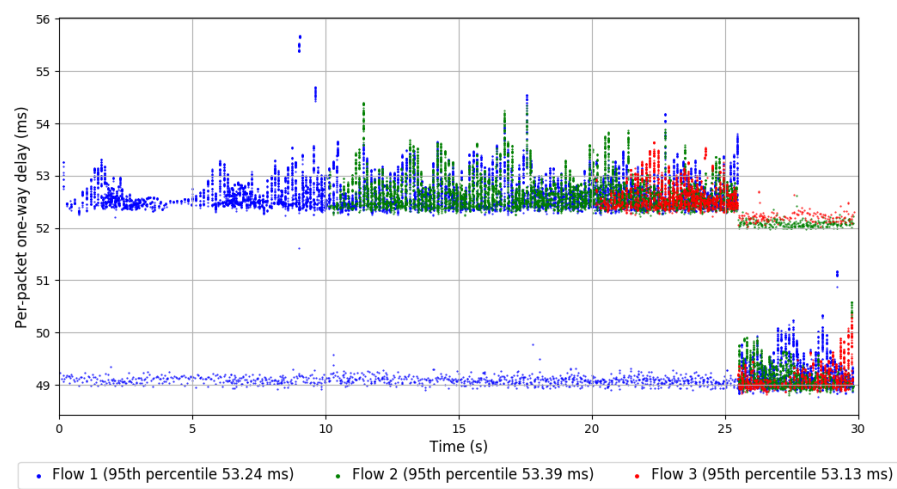
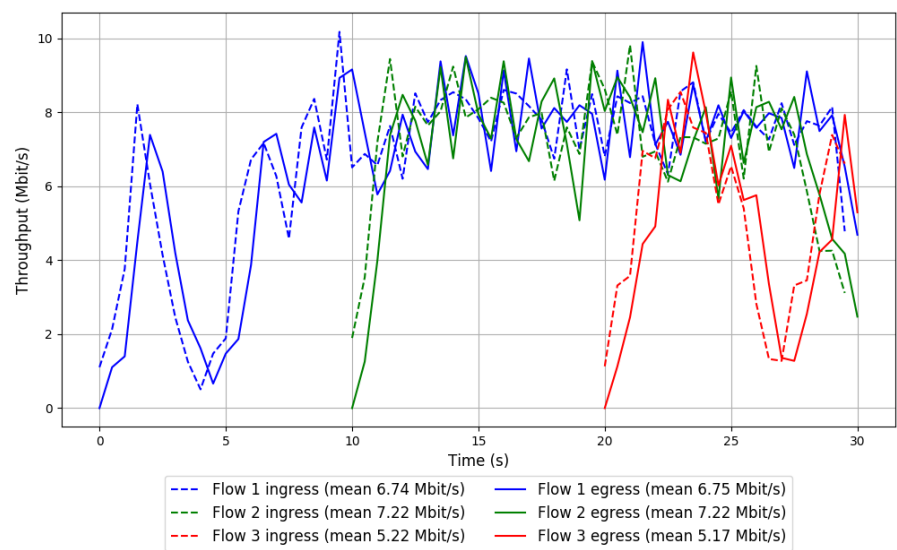
-- Flow 3:

Average throughput: 5.17 Mbit/s

95th percentile per-packet one-way delay: 53.132 ms

Loss rate: 1.95%

Run 2: Report of Sprout — Data Link

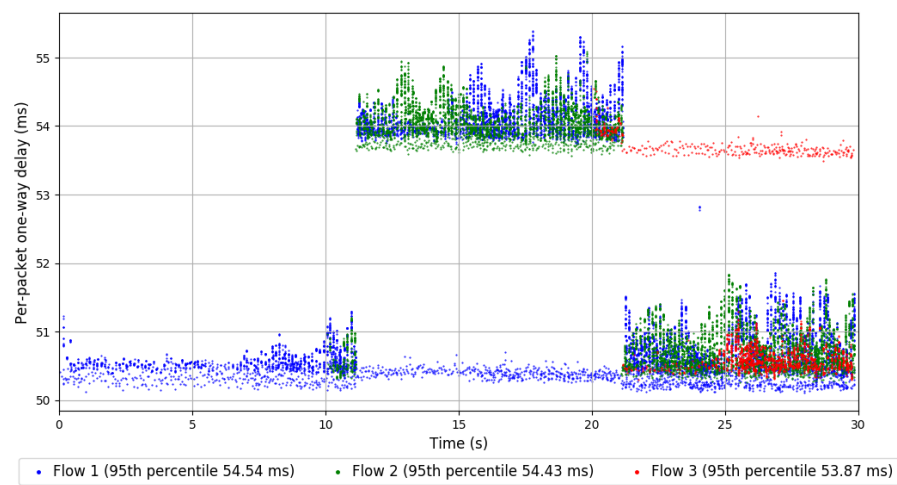
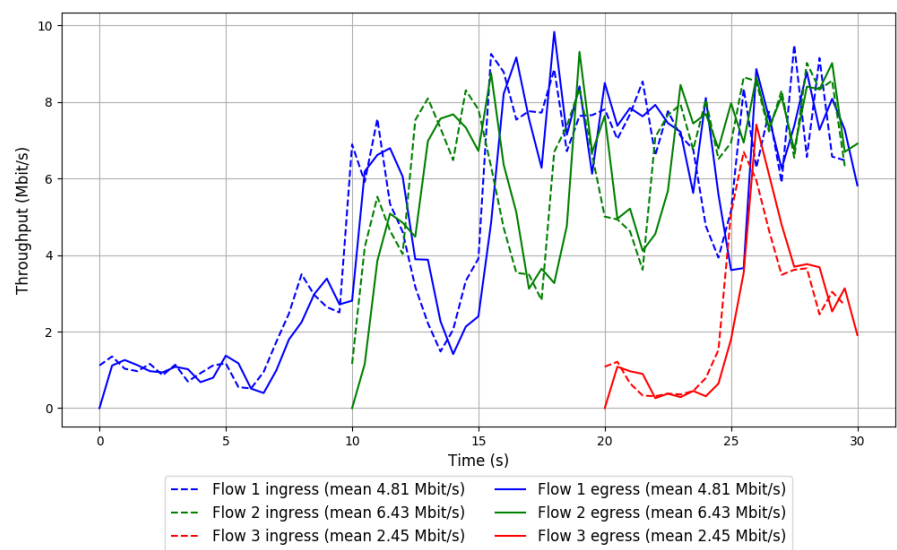


Run 3: Statistics of Sprout

Start at: 2018-06-20 22:36:11
End at: 2018-06-20 22:36:41
Local clock offset: 0.053 ms
Remote clock offset: 0.31 ms

```
# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.88 Mbit/s
95th percentile per-packet one-way delay: 54.465 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 4.81 Mbit/s
95th percentile per-packet one-way delay: 54.541 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 6.43 Mbit/s
95th percentile per-packet one-way delay: 54.427 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 2.45 Mbit/s
95th percentile per-packet one-way delay: 53.874 ms
Loss rate: 1.61%
```

Run 3: Report of Sprout — Data Link

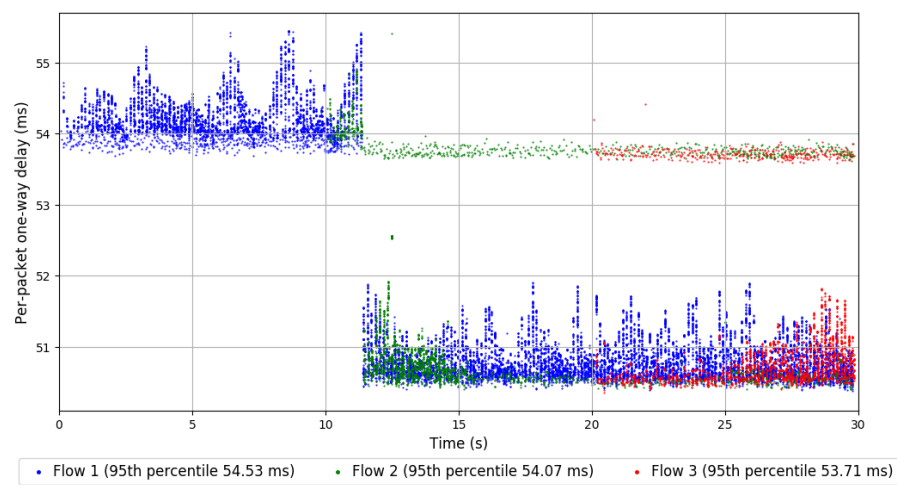
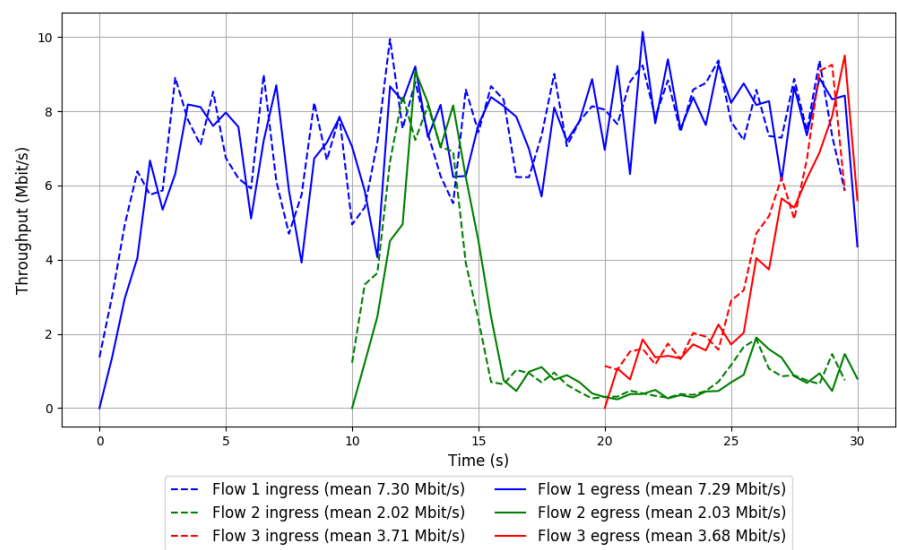


Run 4: Statistics of Sprout

Start at: 2018-06-20 22:59:01
End at: 2018-06-20 22:59:31
Local clock offset: 0.197 ms
Remote clock offset: 0.361 ms

```
# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.84 Mbit/s
95th percentile per-packet one-way delay: 54.448 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 7.29 Mbit/s
95th percentile per-packet one-way delay: 54.530 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 54.071 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 3.68 Mbit/s
95th percentile per-packet one-way delay: 53.709 ms
Loss rate: 1.71%
```

Run 4: Report of Sprout — Data Link

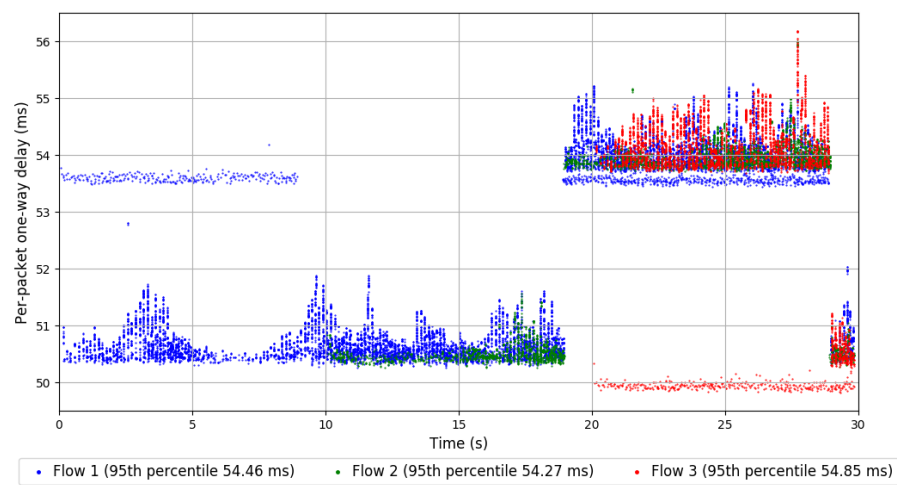
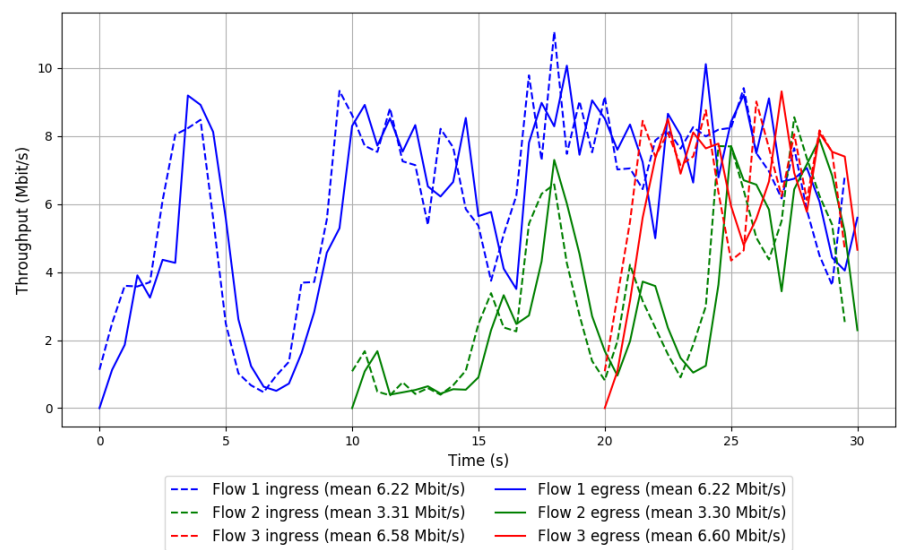


Run 5: Statistics of Sprout

Start at: 2018-06-20 23:21:53
End at: 2018-06-20 23:22:23
Local clock offset: -0.142 ms
Remote clock offset: 0.318 ms

Below is generated by plot.py at 2018-06-21 03:40:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 10.57 Mbit/s
95th percentile per-packet one-way delay: 54.593 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 6.22 Mbit/s
95th percentile per-packet one-way delay: 54.456 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 3.30 Mbit/s
95th percentile per-packet one-way delay: 54.275 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 6.60 Mbit/s
95th percentile per-packet one-way delay: 54.848 ms
Loss rate: 0.84%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-06-20 23:44:38

End at: 2018-06-20 23:45:08

Local clock offset: -0.14 ms

Remote clock offset: 0.33 ms

Below is generated by plot.py at 2018-06-21 03:40:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.67 Mbit/s

95th percentile per-packet one-way delay: 54.105 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 7.07 Mbit/s

95th percentile per-packet one-way delay: 54.024 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 6.78 Mbit/s

95th percentile per-packet one-way delay: 54.093 ms

Loss rate: 0.63%

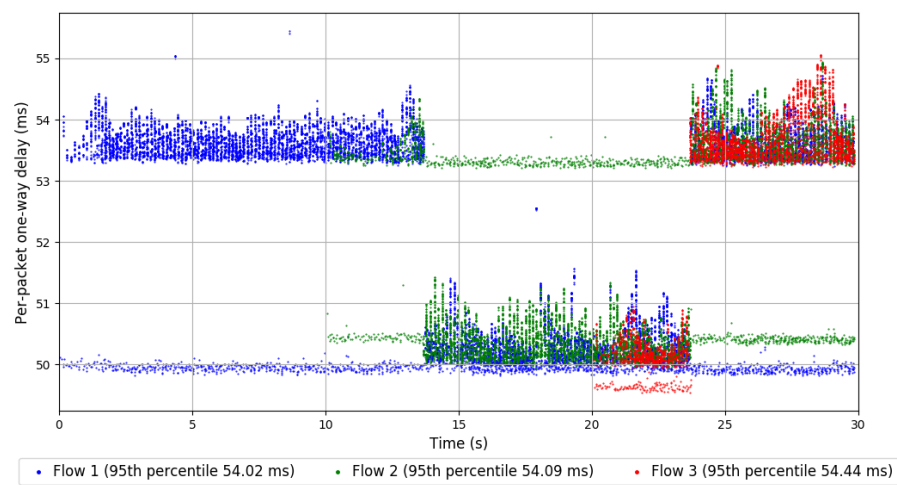
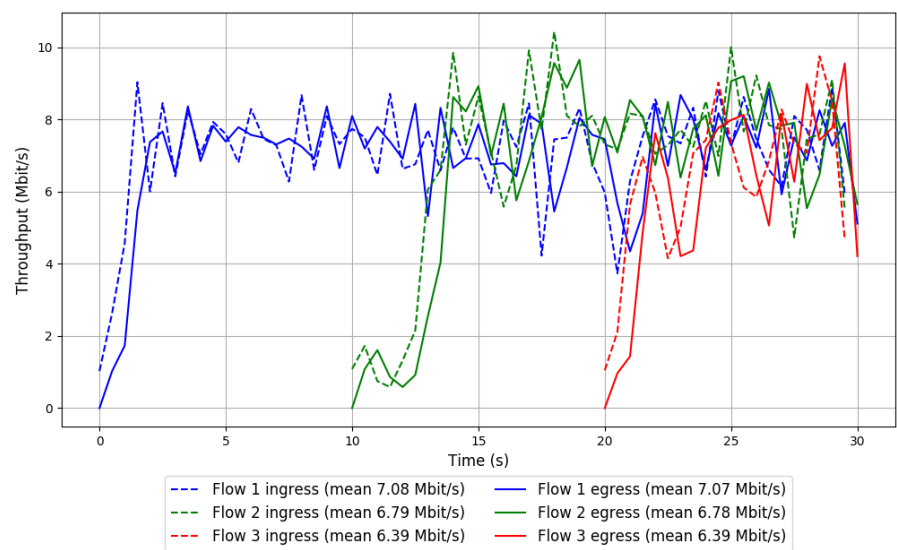
-- Flow 3:

Average throughput: 6.39 Mbit/s

95th percentile per-packet one-way delay: 54.436 ms

Loss rate: 1.11%

Run 6: Report of Sprout — Data Link

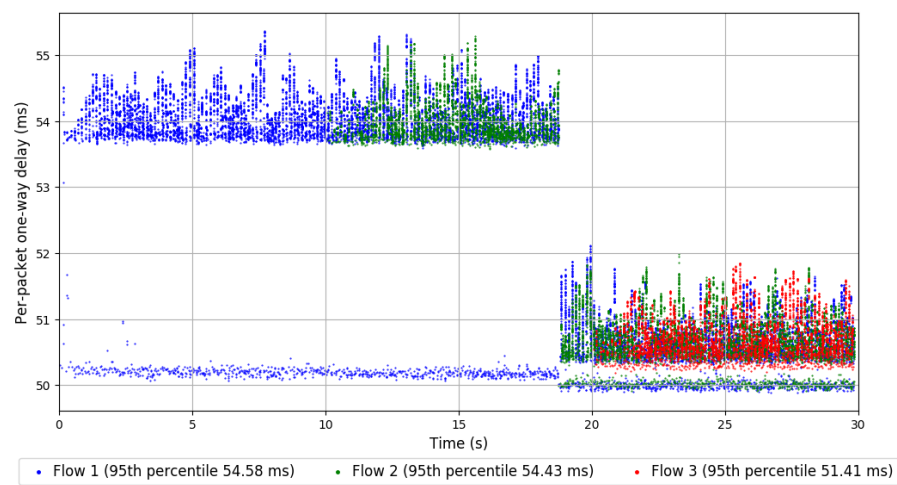
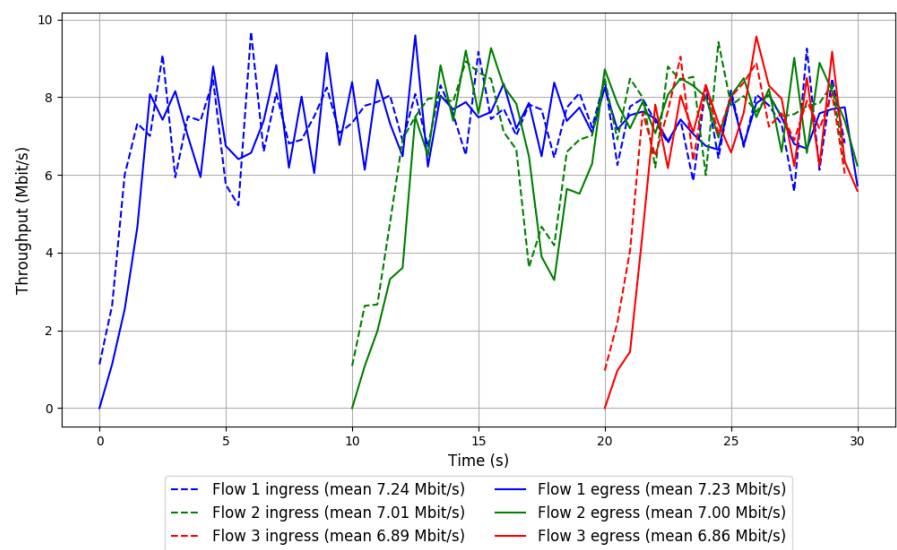


Run 7: Statistics of Sprout

Start at: 2018-06-21 00:07:43
End at: 2018-06-21 00:08:13
Local clock offset: -0.01 ms
Remote clock offset: -0.234 ms

Below is generated by plot.py at 2018-06-21 03:40:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.12 Mbit/s
95th percentile per-packet one-way delay: 54.491 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 7.23 Mbit/s
95th percentile per-packet one-way delay: 54.583 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 7.00 Mbit/s
95th percentile per-packet one-way delay: 54.426 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 6.86 Mbit/s
95th percentile per-packet one-way delay: 51.407 ms
Loss rate: 1.61%

Run 7: Report of Sprout — Data Link

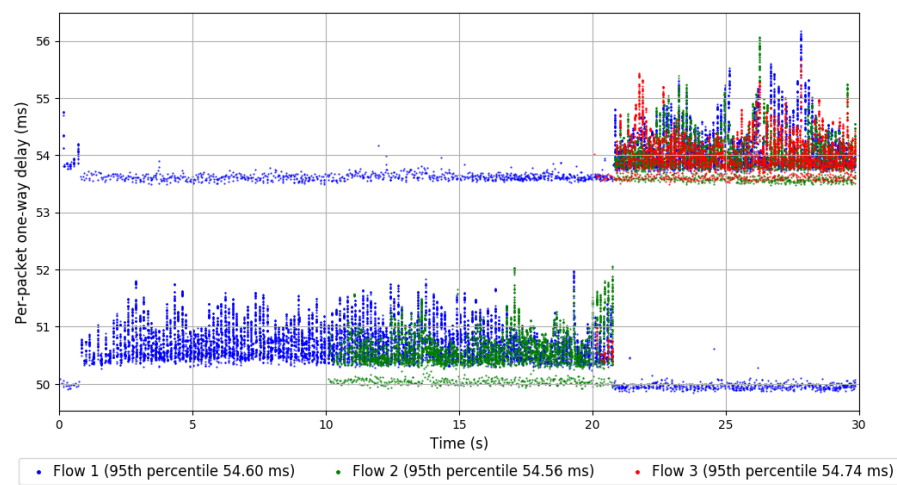
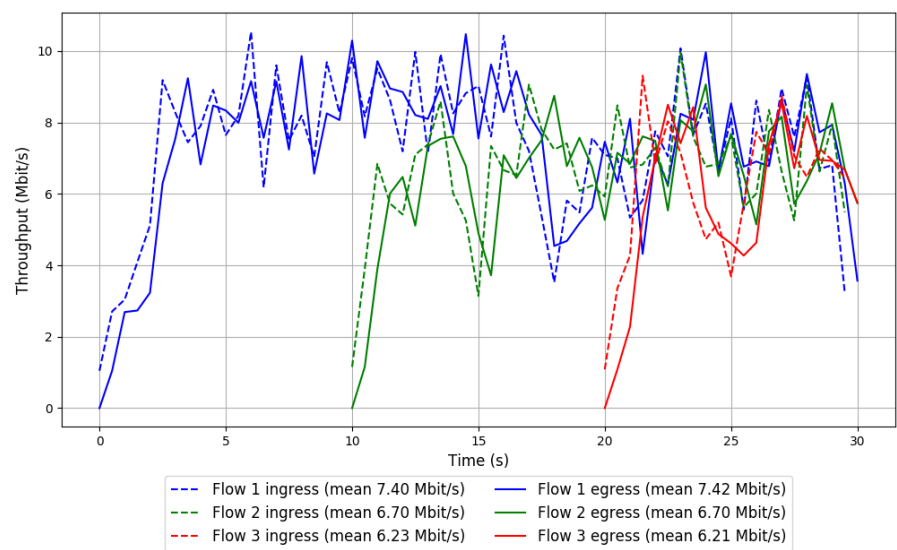


Run 8: Statistics of Sprout

Start at: 2018-06-21 00:31:11
End at: 2018-06-21 00:31:41
Local clock offset: 0.079 ms
Remote clock offset: -0.331 ms

Below is generated by plot.py at 2018-06-21 03:40:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.90 Mbit/s
95th percentile per-packet one-way delay: 54.614 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 7.42 Mbit/s
95th percentile per-packet one-way delay: 54.598 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 6.70 Mbit/s
95th percentile per-packet one-way delay: 54.558 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 6.21 Mbit/s
95th percentile per-packet one-way delay: 54.743 ms
Loss rate: 1.40%

Run 8: Report of Sprout — Data Link

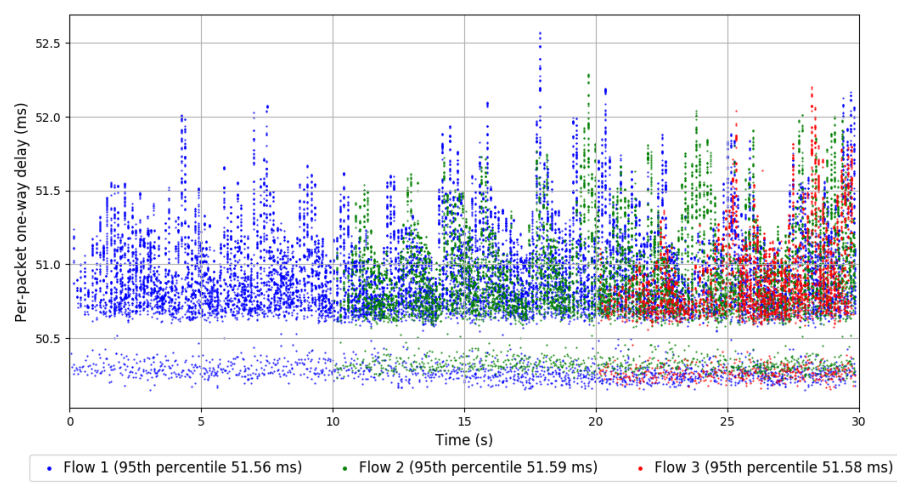
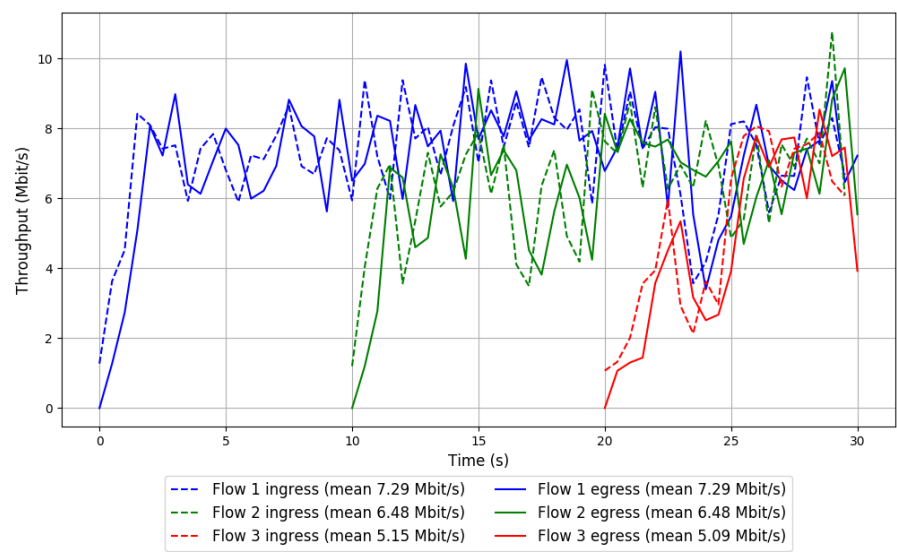


Run 9: Statistics of Sprout

Start at: 2018-06-21 00:54:08
End at: 2018-06-21 00:54:38
Local clock offset: 0.129 ms
Remote clock offset: -0.368 ms

Below is generated by plot.py at 2018-06-21 03:40:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.26 Mbit/s
95th percentile per-packet one-way delay: 51.573 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 7.29 Mbit/s
95th percentile per-packet one-way delay: 51.557 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 6.48 Mbit/s
95th percentile per-packet one-way delay: 51.591 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 5.09 Mbit/s
95th percentile per-packet one-way delay: 51.577 ms
Loss rate: 2.24%

Run 9: Report of Sprout — Data Link

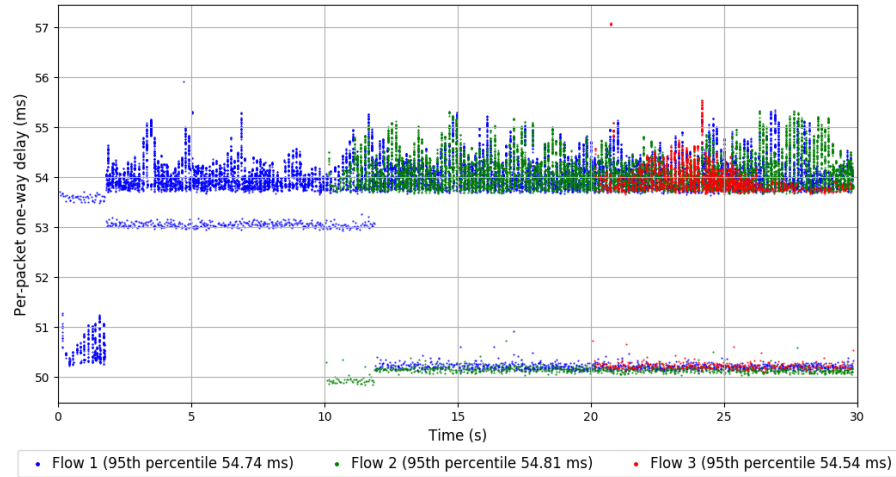
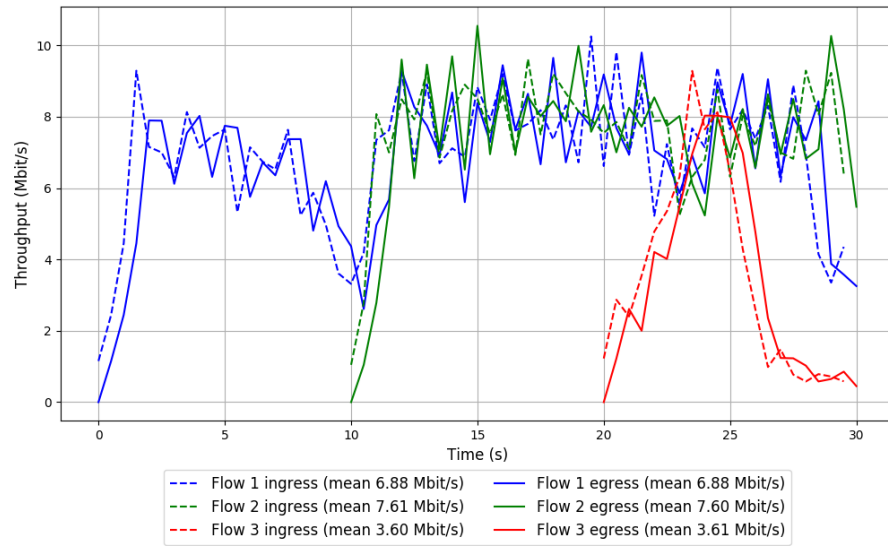


Run 10: Statistics of Sprout

Start at: 2018-06-21 01:17:20
End at: 2018-06-21 01:17:50
Local clock offset: -0.098 ms
Remote clock offset: -0.057 ms

Below is generated by plot.py at 2018-06-21 03:40:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.11 Mbit/s
95th percentile per-packet one-way delay: 54.766 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 6.88 Mbit/s
95th percentile per-packet one-way delay: 54.739 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 7.60 Mbit/s
95th percentile per-packet one-way delay: 54.813 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 3.61 Mbit/s
95th percentile per-packet one-way delay: 54.538 ms
Loss rate: 0.19%

Run 10: Report of Sprout — Data Link

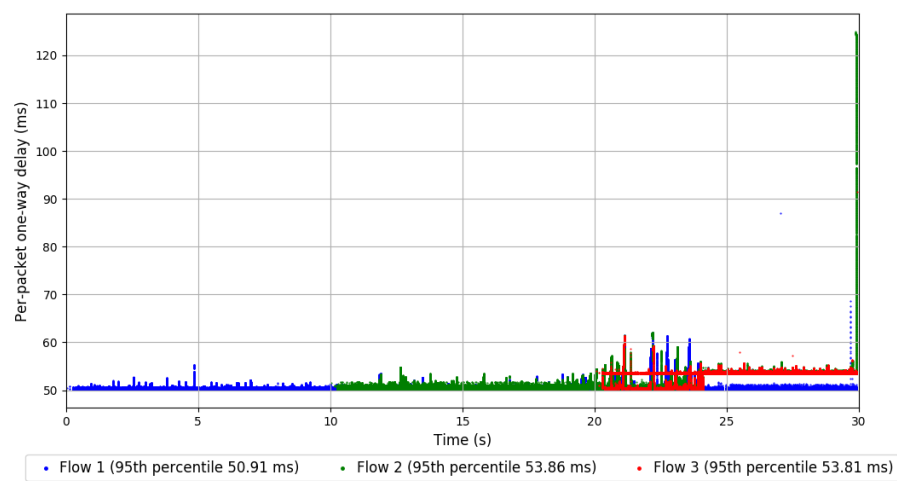
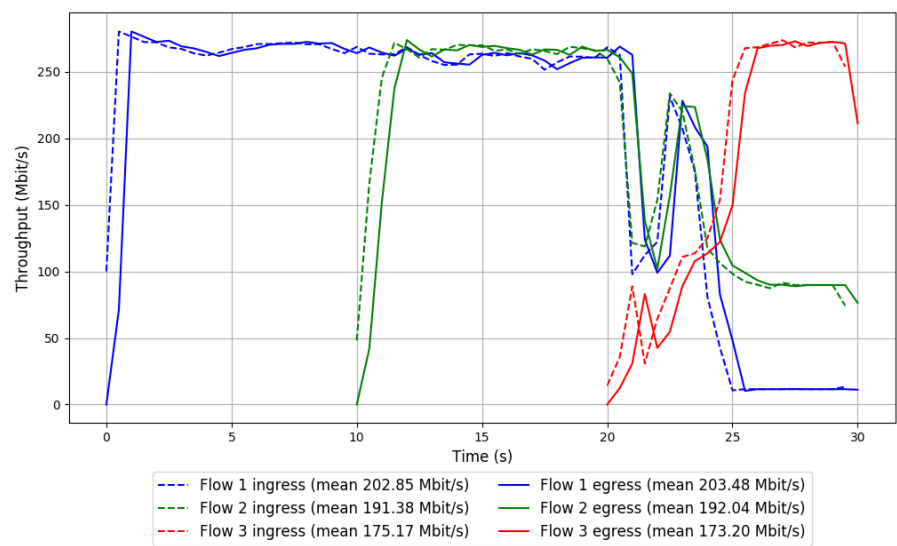


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-20 22:06:38
End at: 2018-06-20 22:07:08
Local clock offset: -0.008 ms
Remote clock offset: 0.293 ms

# Below is generated by plot.py at 2018-06-21 03:50:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 388.25 Mbit/s
95th percentile per-packet one-way delay: 53.777 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 203.48 Mbit/s
95th percentile per-packet one-way delay: 50.913 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 192.04 Mbit/s
95th percentile per-packet one-way delay: 53.856 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 173.20 Mbit/s
95th percentile per-packet one-way delay: 53.814 ms
Loss rate: 2.08%
```

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

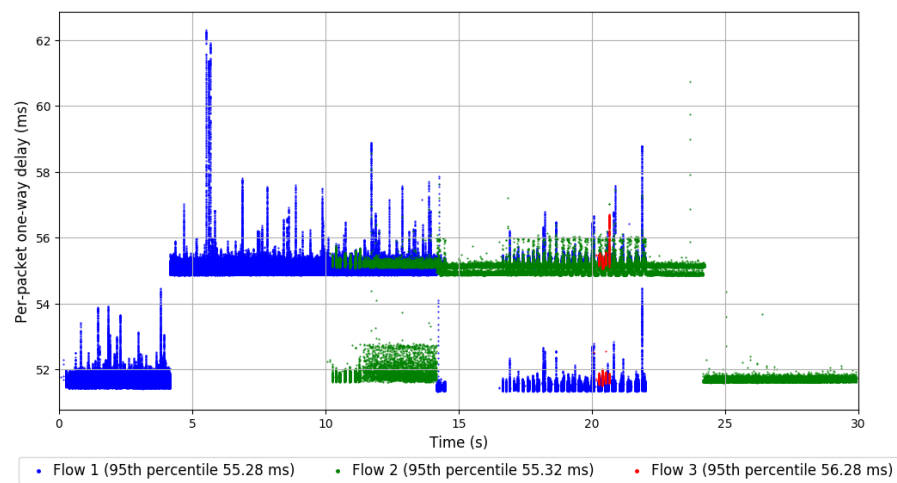
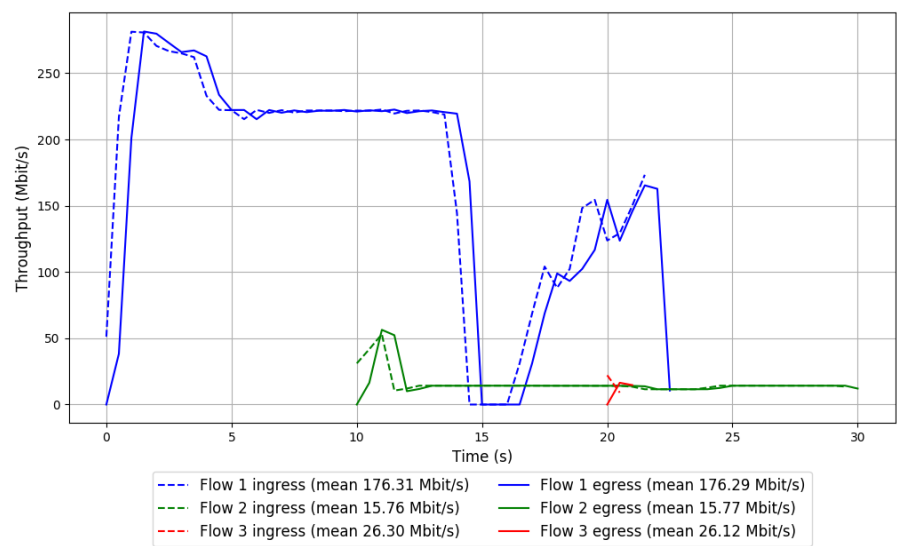


Run 2: Statistics of TaoVA-100x

Start at: 2018-06-20 22:29:48
End at: 2018-06-20 22:30:18
Local clock offset: 0.154 ms
Remote clock offset: -0.929 ms

Below is generated by plot.py at 2018-06-21 03:50:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 140.65 Mbit/s
95th percentile per-packet one-way delay: 55.284 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 176.29 Mbit/s
95th percentile per-packet one-way delay: 55.280 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 15.77 Mbit/s
95th percentile per-packet one-way delay: 55.317 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 26.12 Mbit/s
95th percentile per-packet one-way delay: 56.281 ms
Loss rate: 0.00%

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

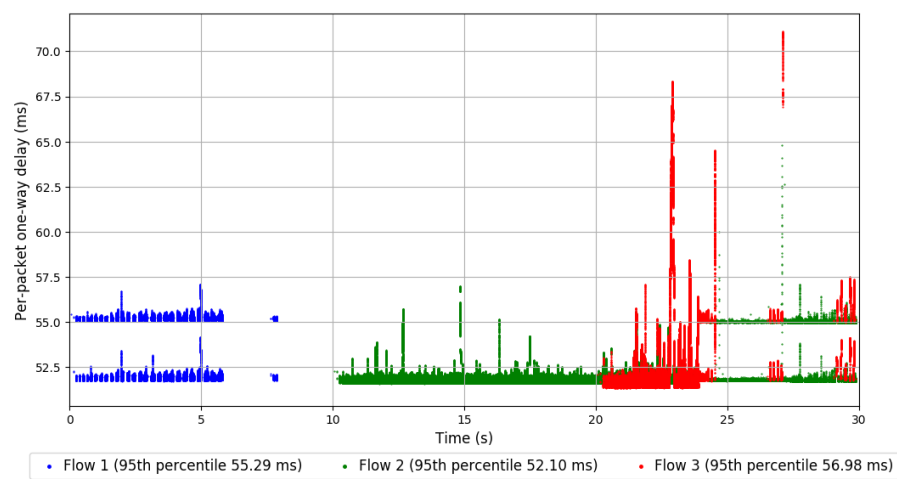
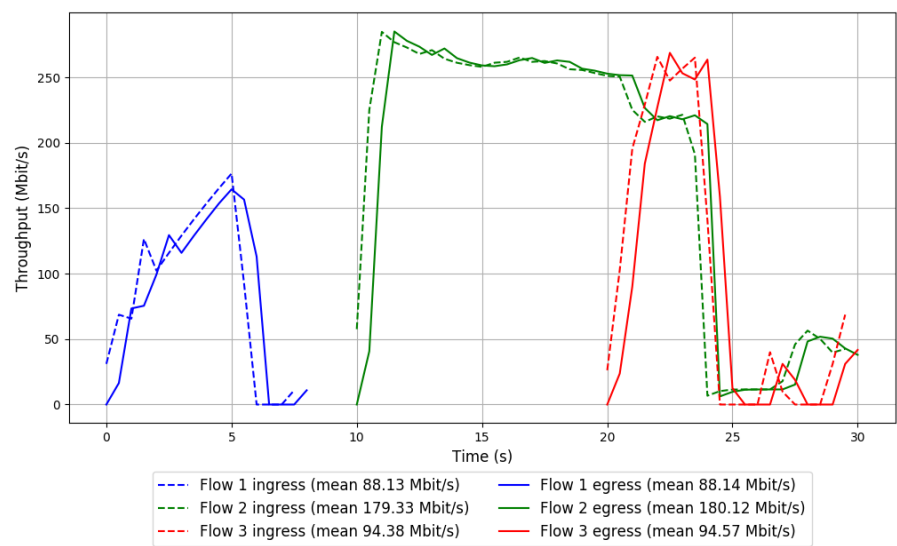


Run 3: Statistics of TaoVA-100x

Start at: 2018-06-20 22:52:38
End at: 2018-06-20 22:53:08
Local clock offset: 0.176 ms
Remote clock offset: -1.062 ms

Below is generated by plot.py at 2018-06-21 03:50:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 173.87 Mbit/s
95th percentile per-packet one-way delay: 55.195 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 88.14 Mbit/s
95th percentile per-packet one-way delay: 55.290 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 180.12 Mbit/s
95th percentile per-packet one-way delay: 52.099 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 94.57 Mbit/s
95th percentile per-packet one-way delay: 56.984 ms
Loss rate: 1.43%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-06-20 23:15:31

End at: 2018-06-20 23:16:01

Local clock offset: -0.092 ms

Remote clock offset: 1.676 ms

Below is generated by plot.py at 2018-06-21 03:50:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.17 Mbit/s

95th percentile per-packet one-way delay: 52.470 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 23.68 Mbit/s

95th percentile per-packet one-way delay: 52.521 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 77.12 Mbit/s

95th percentile per-packet one-way delay: 52.531 ms

Loss rate: 0.00%

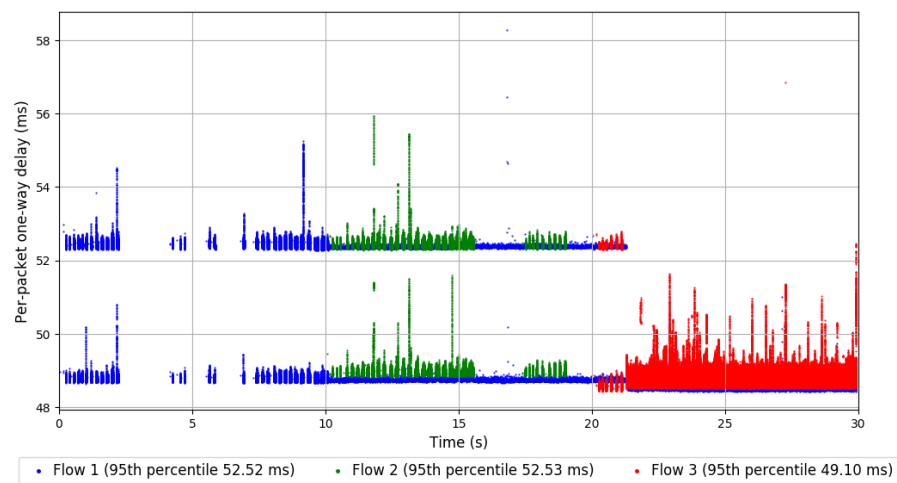
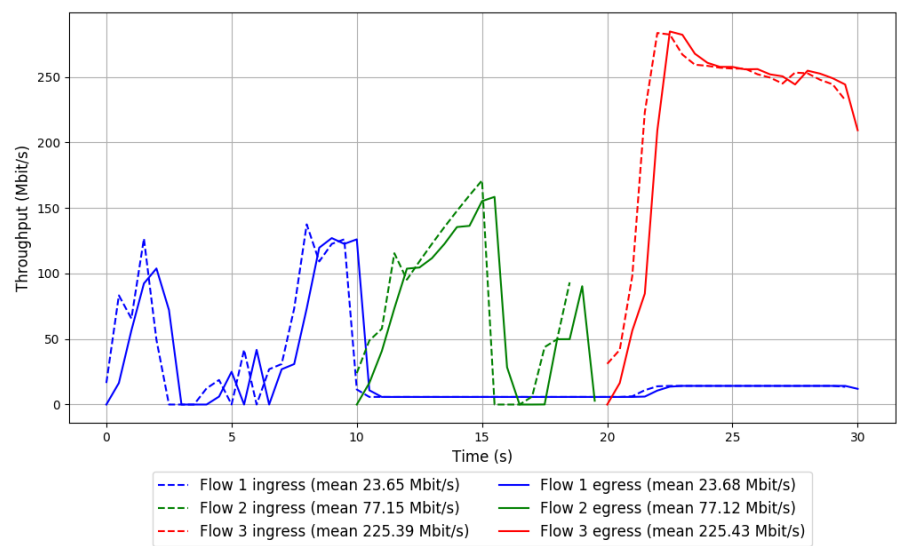
-- Flow 3:

Average throughput: 225.43 Mbit/s

95th percentile per-packet one-way delay: 49.096 ms

Loss rate: 1.03%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-06-20 23:38:23

End at: 2018-06-20 23:38:53

Local clock offset: -0.136 ms

Remote clock offset: 1.585 ms

Below is generated by plot.py at 2018-06-21 03:50:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 199.41 Mbit/s

95th percentile per-packet one-way delay: 52.277 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 15.13 Mbit/s

95th percentile per-packet one-way delay: 52.568 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 255.04 Mbit/s

95th percentile per-packet one-way delay: 49.109 ms

Loss rate: 0.54%

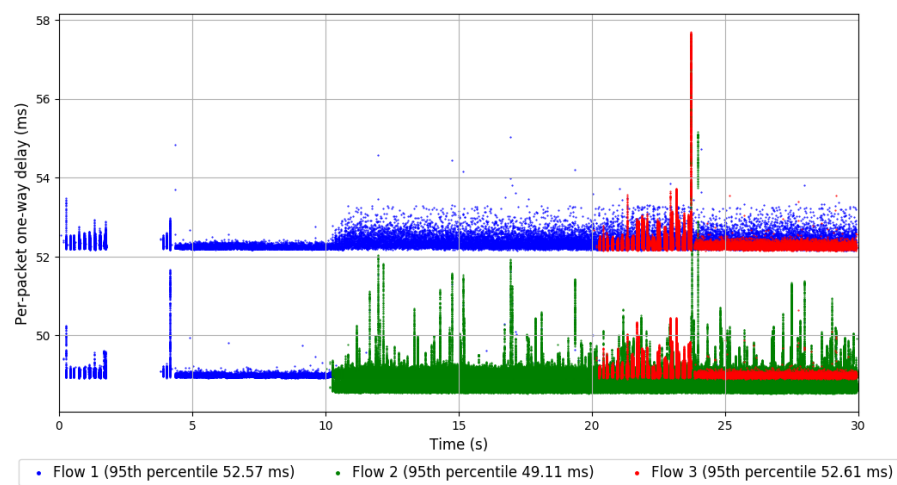
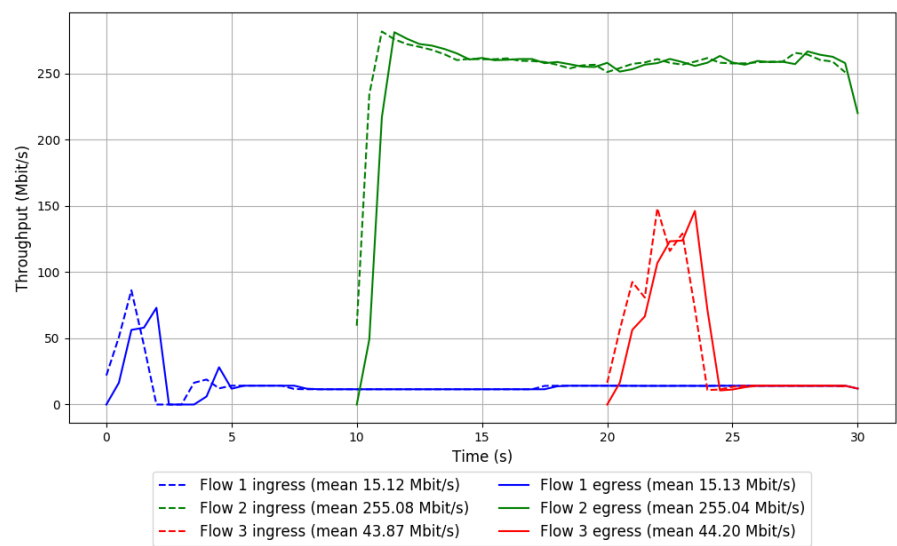
-- Flow 3:

Average throughput: 44.20 Mbit/s

95th percentile per-packet one-way delay: 52.606 ms

Loss rate: 0.34%

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

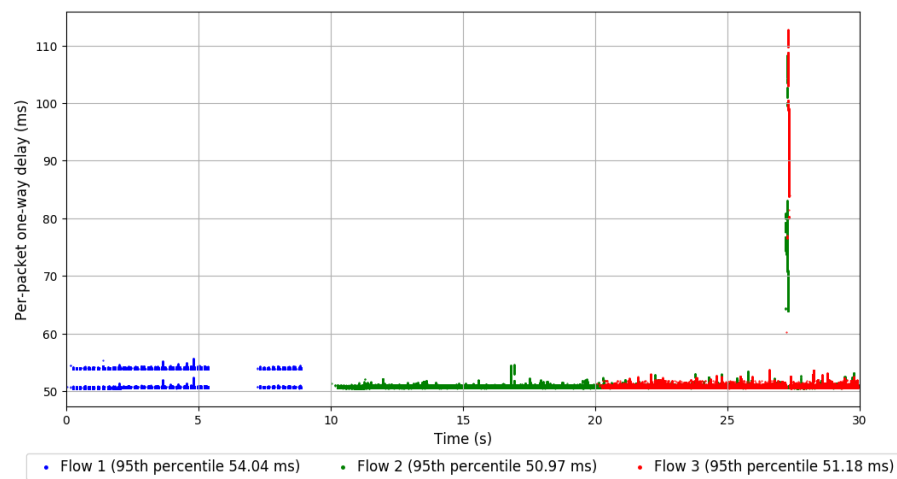
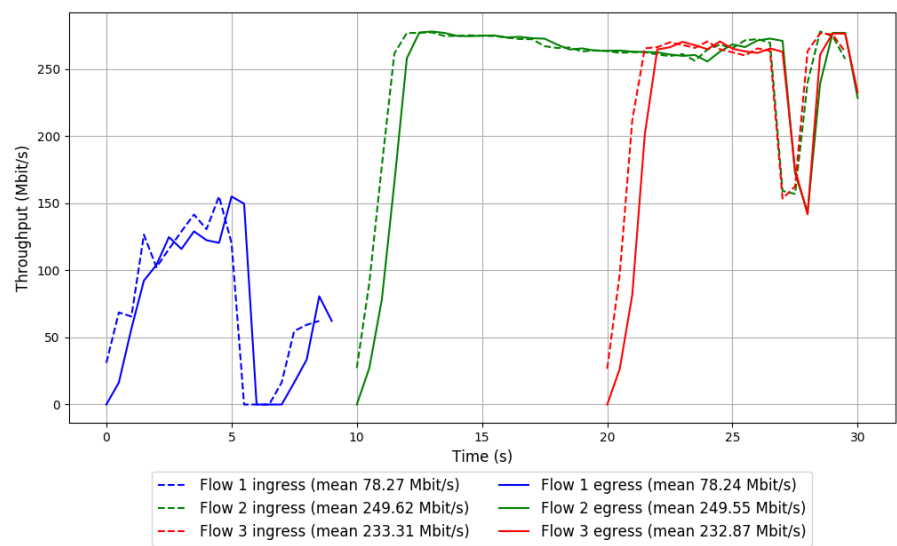


Run 6: Statistics of TaoVA-100x

Start at: 2018-06-21 00:01:10
End at: 2018-06-21 00:01:40
Local clock offset: 0.207 ms
Remote clock offset: -0.215 ms

Below is generated by plot.py at 2018-06-21 03:50:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 266.02 Mbit/s
95th percentile per-packet one-way delay: 53.263 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 78.24 Mbit/s
95th percentile per-packet one-way delay: 54.039 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 249.55 Mbit/s
95th percentile per-packet one-way delay: 50.972 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 232.87 Mbit/s
95th percentile per-packet one-way delay: 51.177 ms
Loss rate: 1.23%

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

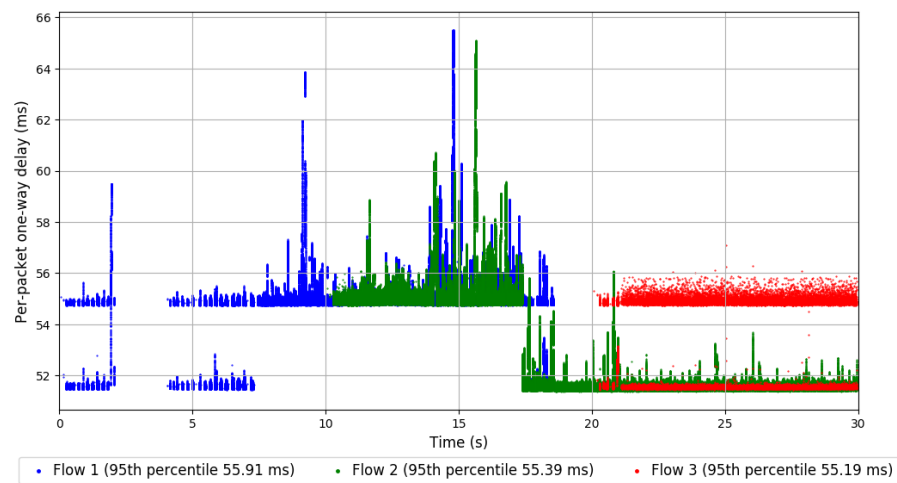
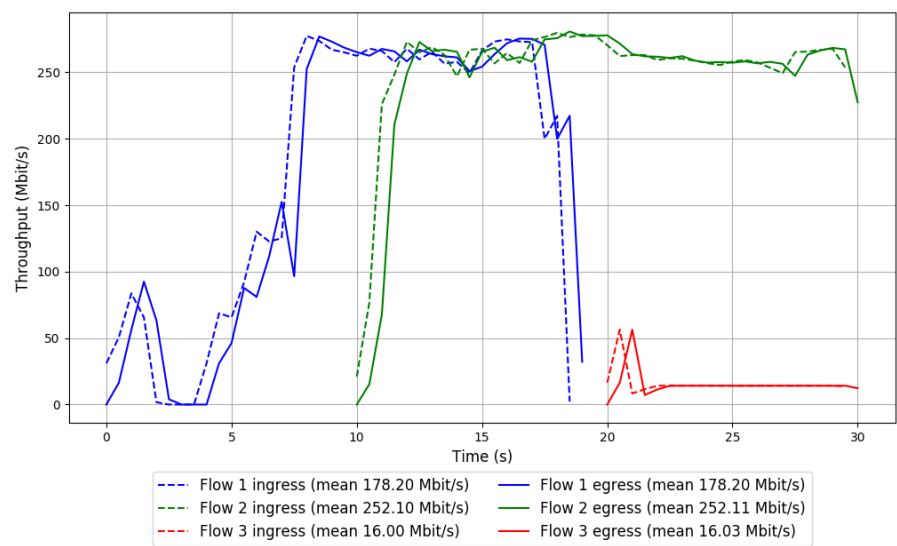


Run 7: Statistics of TaoVA-100x

Start at: 2018-06-21 00:24:35
End at: 2018-06-21 00:25:05
Local clock offset: 0.069 ms
Remote clock offset: -1.512 ms

Below is generated by plot.py at 2018-06-21 03:50:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 283.30 Mbit/s
95th percentile per-packet one-way delay: 55.575 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 178.20 Mbit/s
95th percentile per-packet one-way delay: 55.905 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 252.11 Mbit/s
95th percentile per-packet one-way delay: 55.387 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 16.03 Mbit/s
95th percentile per-packet one-way delay: 55.189 ms
Loss rate: 0.90%

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

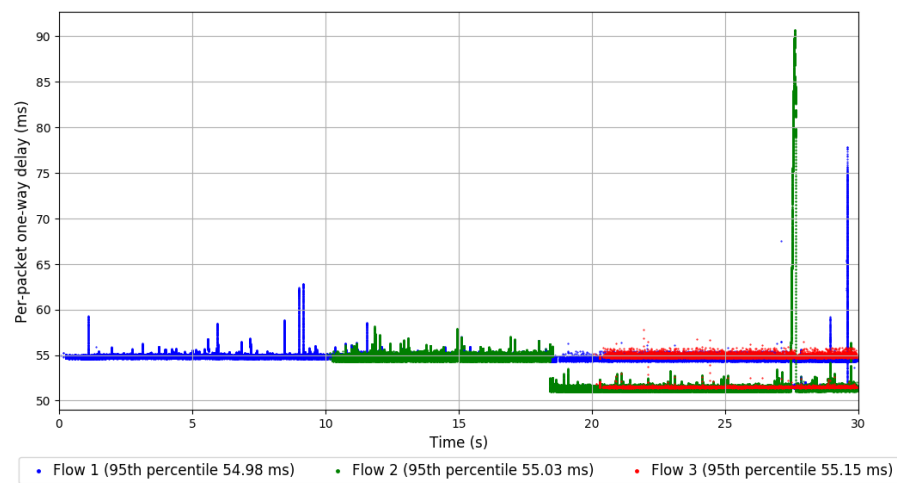
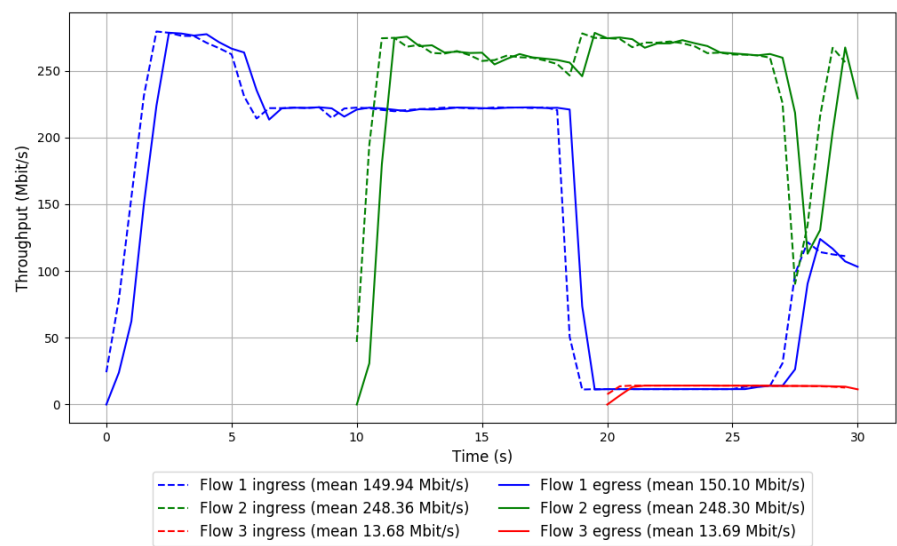


Run 8: Statistics of TaoVA-100x

Start at: 2018-06-21 00:47:34
End at: 2018-06-21 00:48:04
Local clock offset: -0.115 ms
Remote clock offset: -1.654 ms

Below is generated by plot.py at 2018-06-21 03:50:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 319.71 Mbit/s
95th percentile per-packet one-way delay: 55.005 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 150.10 Mbit/s
95th percentile per-packet one-way delay: 54.981 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 248.30 Mbit/s
95th percentile per-packet one-way delay: 55.032 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 13.69 Mbit/s
95th percentile per-packet one-way delay: 55.146 ms
Loss rate: 0.99%

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

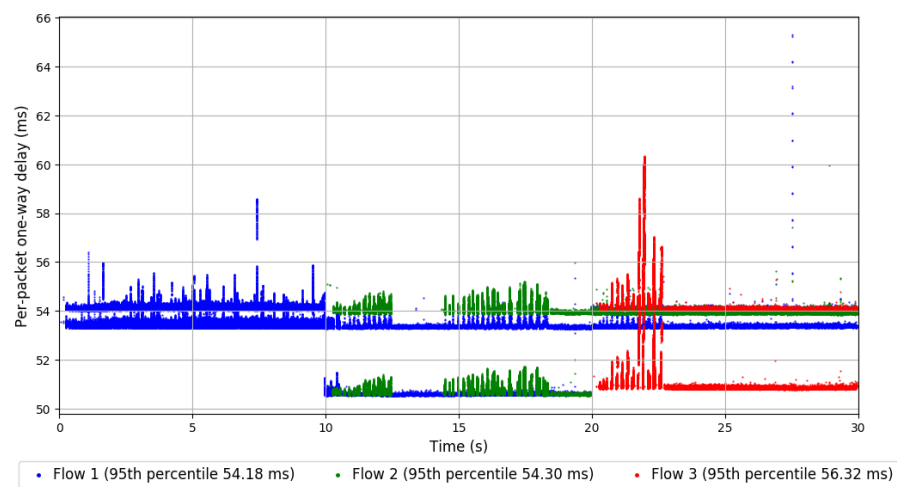
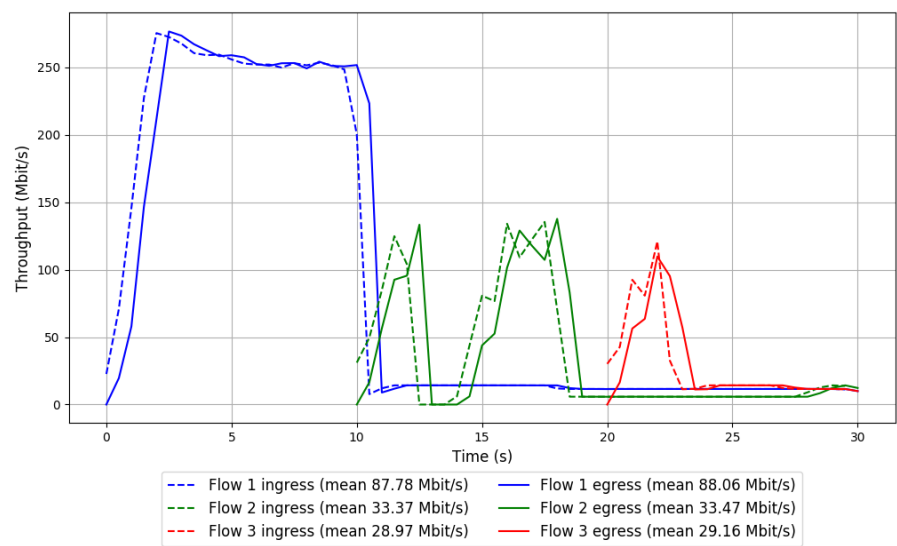


Run 9: Statistics of TaoVA-100x

Start at: 2018-06-21 01:10:52
End at: 2018-06-21 01:11:22
Local clock offset: 0.144 ms
Remote clock offset: -0.249 ms

Below is generated by plot.py at 2018-06-21 03:50:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 119.94 Mbit/s
95th percentile per-packet one-way delay: 54.223 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 88.06 Mbit/s
95th percentile per-packet one-way delay: 54.181 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 33.47 Mbit/s
95th percentile per-packet one-way delay: 54.297 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 29.16 Mbit/s
95th percentile per-packet one-way delay: 56.322 ms
Loss rate: 0.43%

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

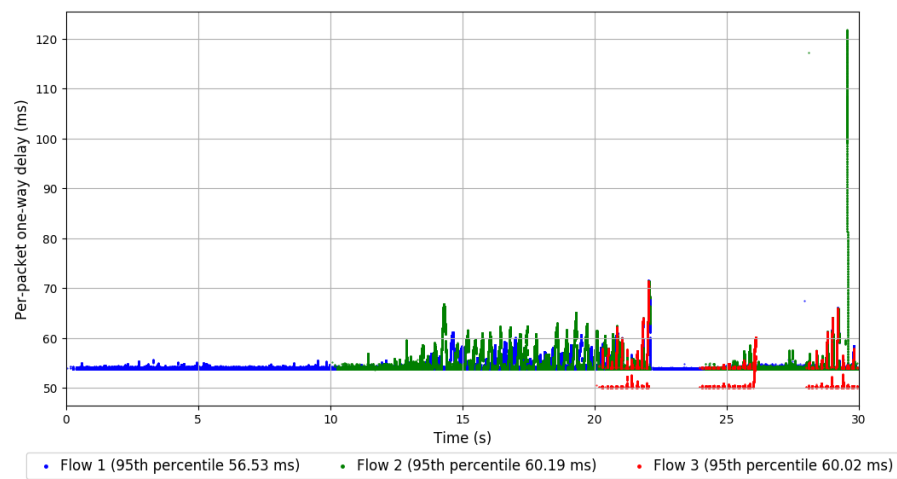
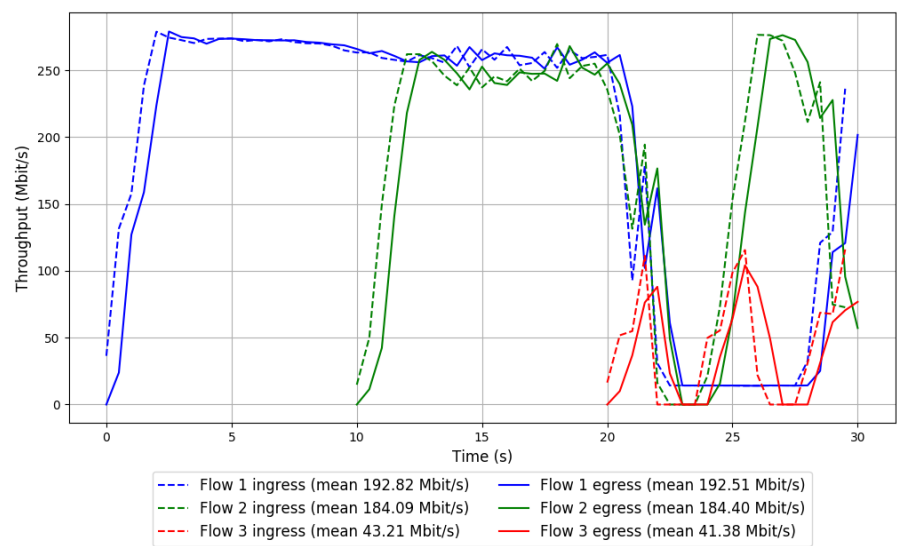


Run 10: Statistics of TaoVA-100x

Start at: 2018-06-21 01:33:57
End at: 2018-06-21 01:34:27
Local clock offset: -0.013 ms
Remote clock offset: -0.197 ms

Below is generated by plot.py at 2018-06-21 03:52:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 328.78 Mbit/s
95th percentile per-packet one-way delay: 58.365 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 192.51 Mbit/s
95th percentile per-packet one-way delay: 56.530 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 184.40 Mbit/s
95th percentile per-packet one-way delay: 60.193 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 41.38 Mbit/s
95th percentile per-packet one-way delay: 60.021 ms
Loss rate: 5.06%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-06-20 22:03:54

End at: 2018-06-20 22:04:24

Local clock offset: -0.04 ms

Remote clock offset: 0.302 ms

Below is generated by plot.py at 2018-06-21 03:52:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 212.87 Mbit/s

95th percentile per-packet one-way delay: 55.302 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 156.54 Mbit/s

95th percentile per-packet one-way delay: 55.229 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 76.47 Mbit/s

95th percentile per-packet one-way delay: 55.592 ms

Loss rate: 0.60%

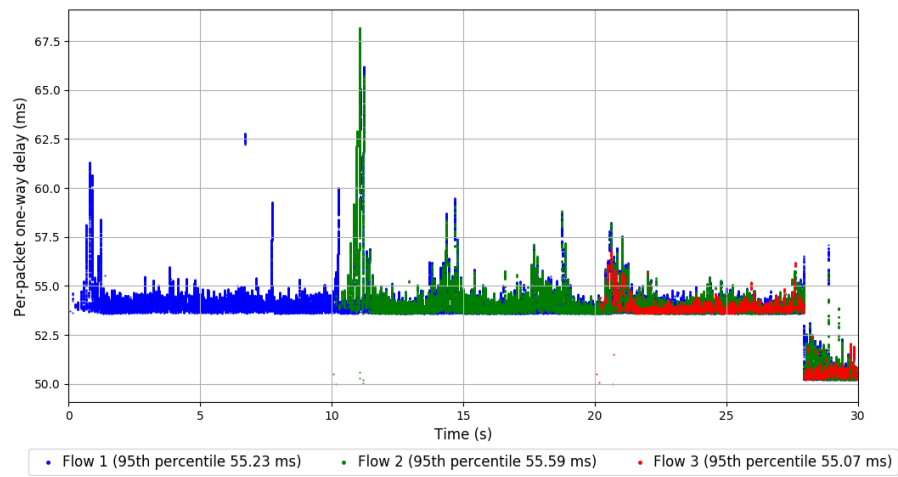
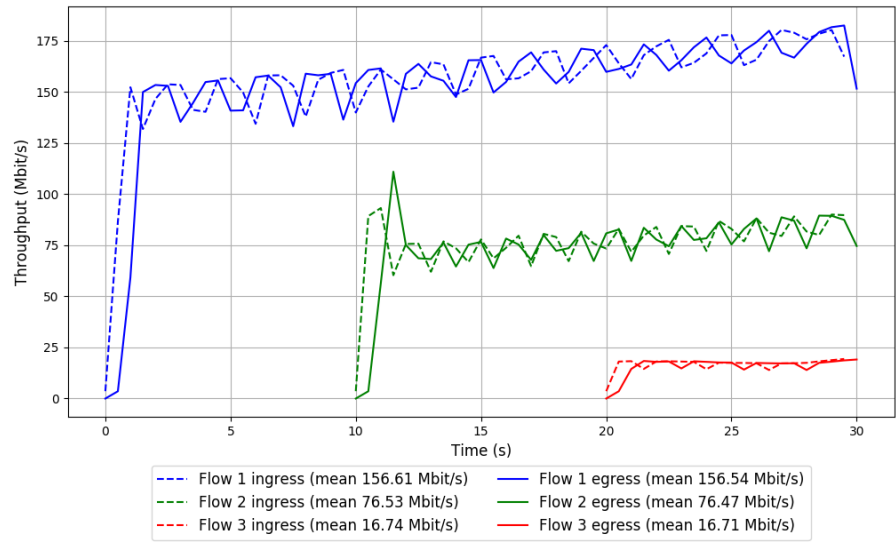
-- Flow 3:

Average throughput: 16.71 Mbit/s

95th percentile per-packet one-way delay: 55.074 ms

Loss rate: 1.18%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-06-20 22:26:59

End at: 2018-06-20 22:27:29

Local clock offset: -0.136 ms

Remote clock offset: 0.208 ms

Below is generated by plot.py at 2018-06-21 03:52:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 160.15 Mbit/s

95th percentile per-packet one-way delay: 59.305 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 130.68 Mbit/s

95th percentile per-packet one-way delay: 59.448 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 9.78 Mbit/s

95th percentile per-packet one-way delay: 54.476 ms

Loss rate: 0.83%

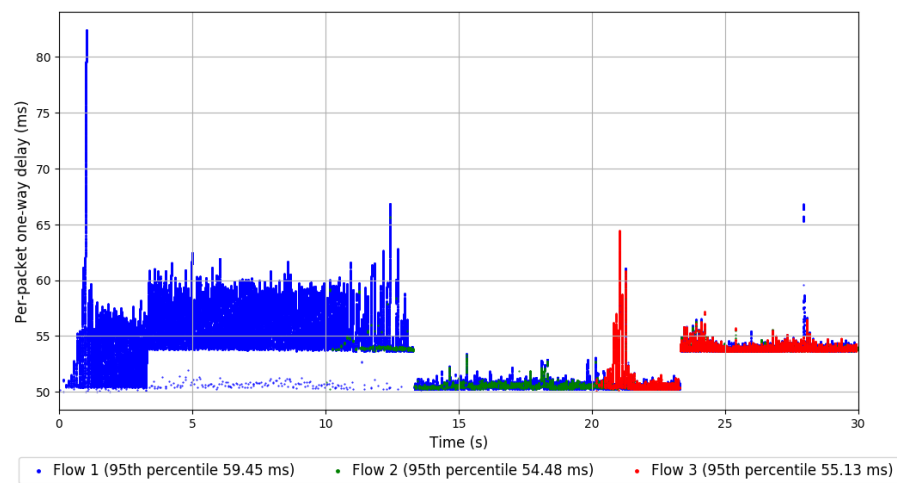
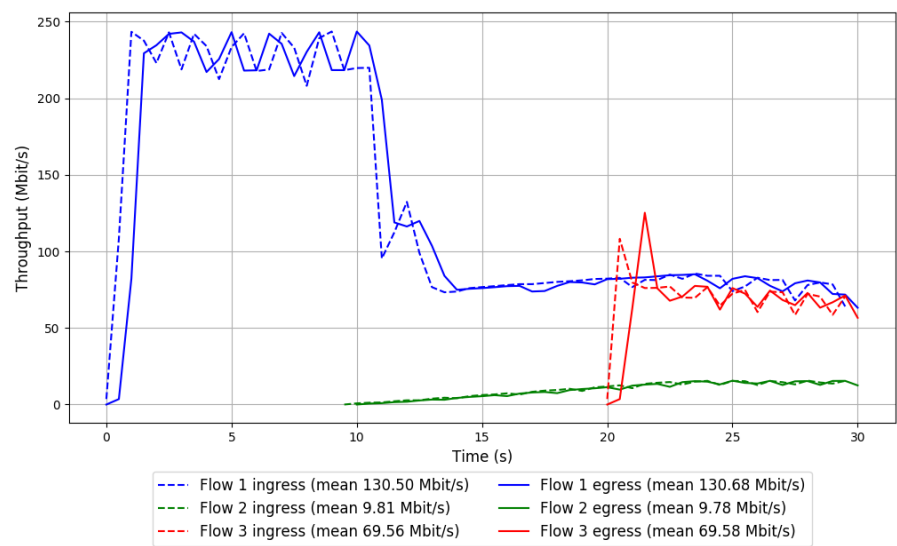
-- Flow 3:

Average throughput: 69.58 Mbit/s

95th percentile per-packet one-way delay: 55.134 ms

Loss rate: 1.02%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-06-20 22:50:00

End at: 2018-06-20 22:50:30

Local clock offset: 0.211 ms

Remote clock offset: 1.412 ms

Below is generated by plot.py at 2018-06-21 03:52:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 159.39 Mbit/s

95th percentile per-packet one-way delay: 54.225 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 120.18 Mbit/s

95th percentile per-packet one-way delay: 53.963 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 56.13 Mbit/s

95th percentile per-packet one-way delay: 55.318 ms

Loss rate: 0.47%

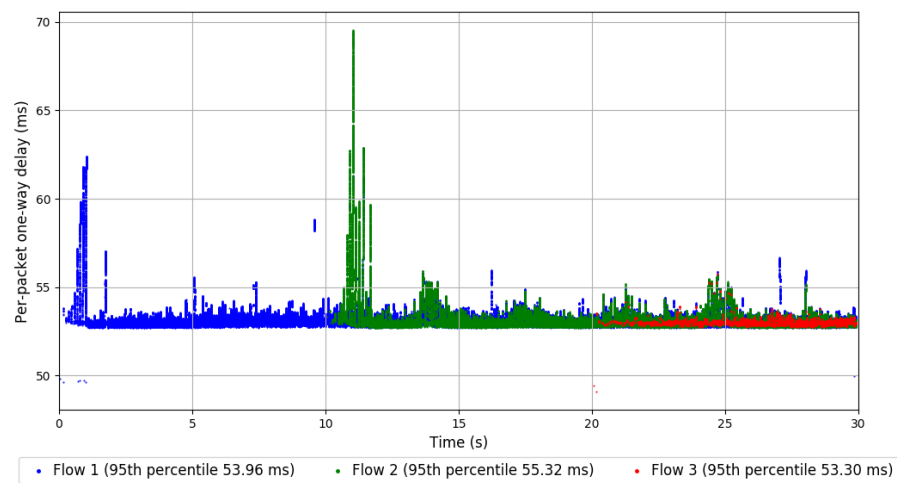
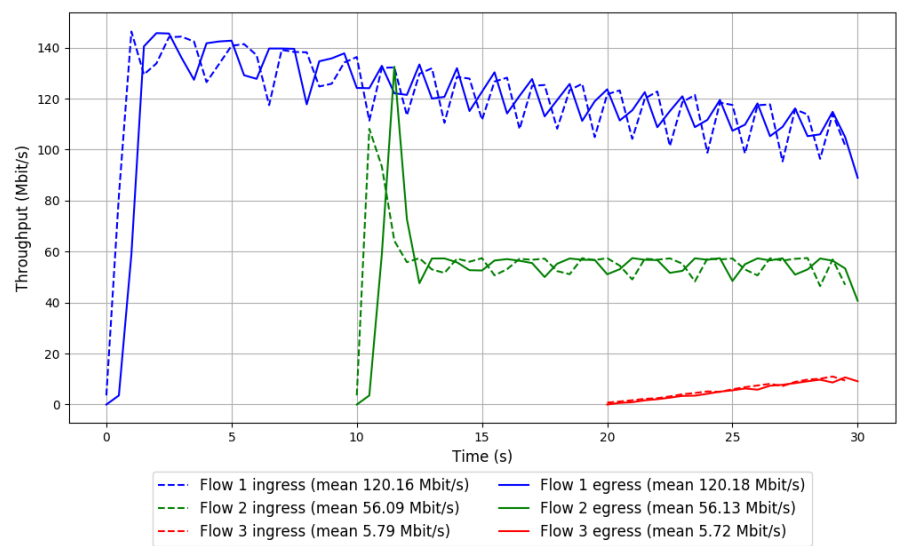
-- Flow 3:

Average throughput: 5.72 Mbit/s

95th percentile per-packet one-way delay: 53.298 ms

Loss rate: 2.13%

Run 3: Report of TCP Vegas — Data Link

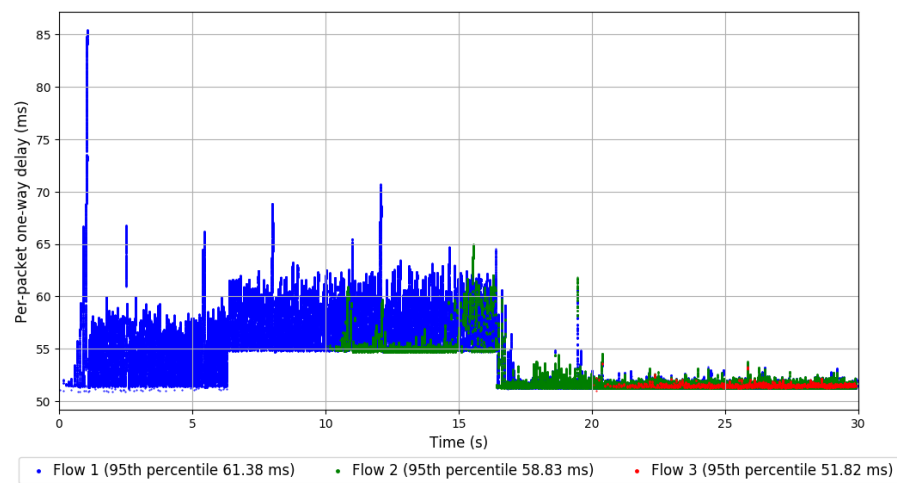
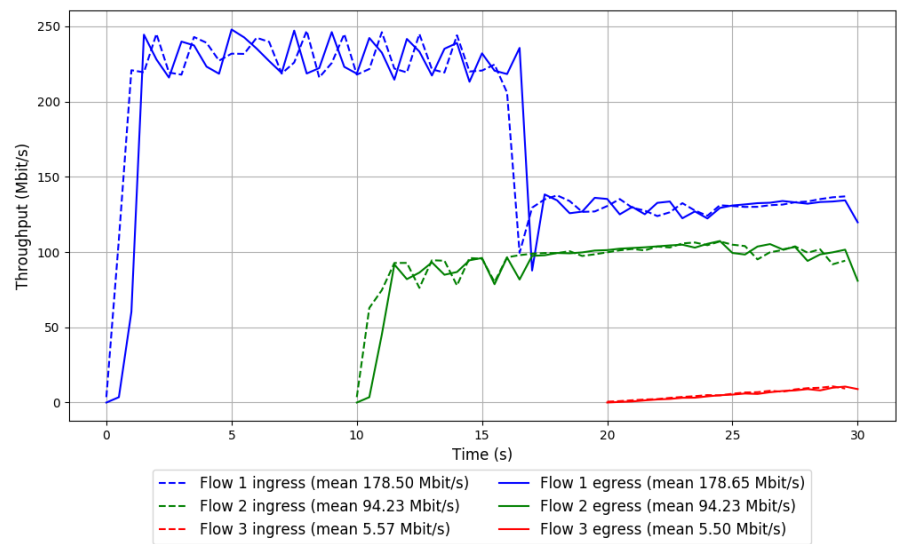


Run 4: Statistics of TCP Vegas

Start at: 2018-06-20 23:12:46
End at: 2018-06-20 23:13:16
Local clock offset: -0.178 ms
Remote clock offset: -0.817 ms

Below is generated by plot.py at 2018-06-21 03:52:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 243.06 Mbit/s
95th percentile per-packet one-way delay: 61.082 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 178.65 Mbit/s
95th percentile per-packet one-way delay: 61.381 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 94.23 Mbit/s
95th percentile per-packet one-way delay: 58.825 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 5.50 Mbit/s
95th percentile per-packet one-way delay: 51.824 ms
Loss rate: 2.25%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-06-20 23:35:37

End at: 2018-06-20 23:36:07

Local clock offset: 0.199 ms

Remote clock offset: 0.318 ms

Below is generated by plot.py at 2018-06-21 03:52:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 212.54 Mbit/s

95th percentile per-packet one-way delay: 61.092 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 18.14 Mbit/s

95th percentile per-packet one-way delay: 60.492 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 217.81 Mbit/s

95th percentile per-packet one-way delay: 61.310 ms

Loss rate: 0.56%

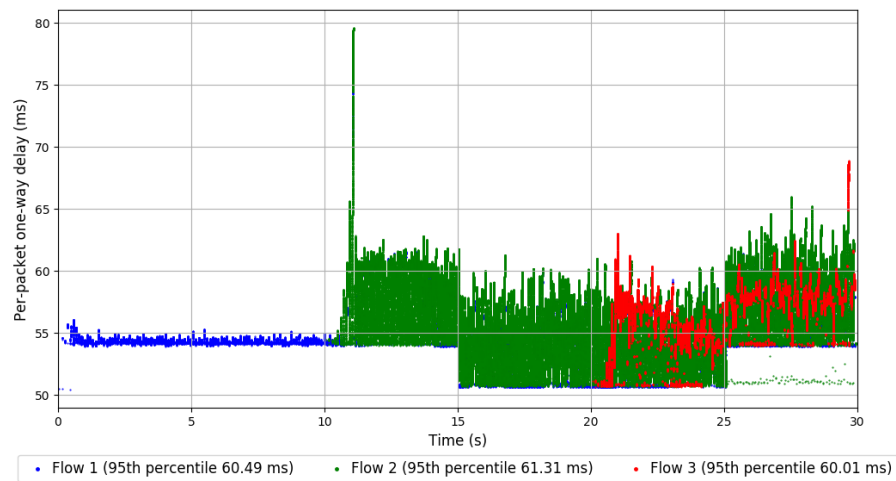
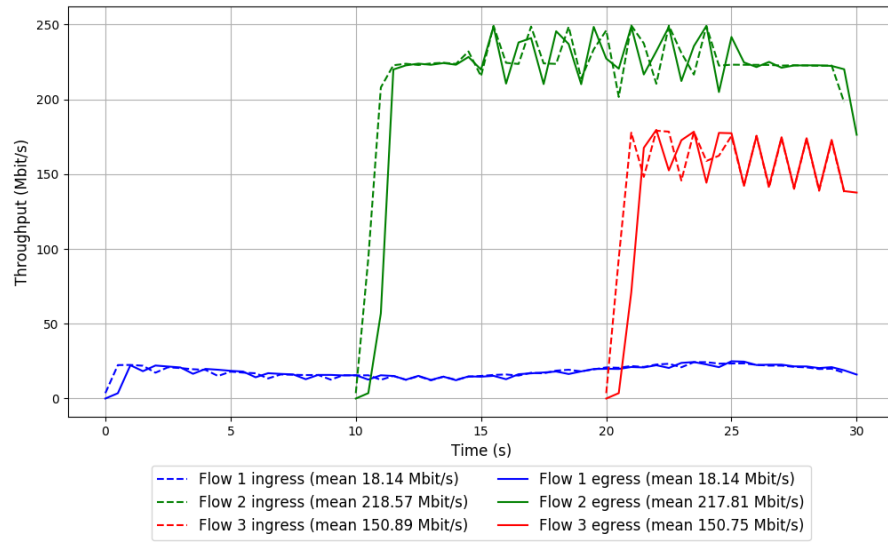
-- Flow 3:

Average throughput: 150.75 Mbit/s

95th percentile per-packet one-way delay: 60.014 ms

Loss rate: 1.14%

Run 5: Report of TCP Vegas — Data Link

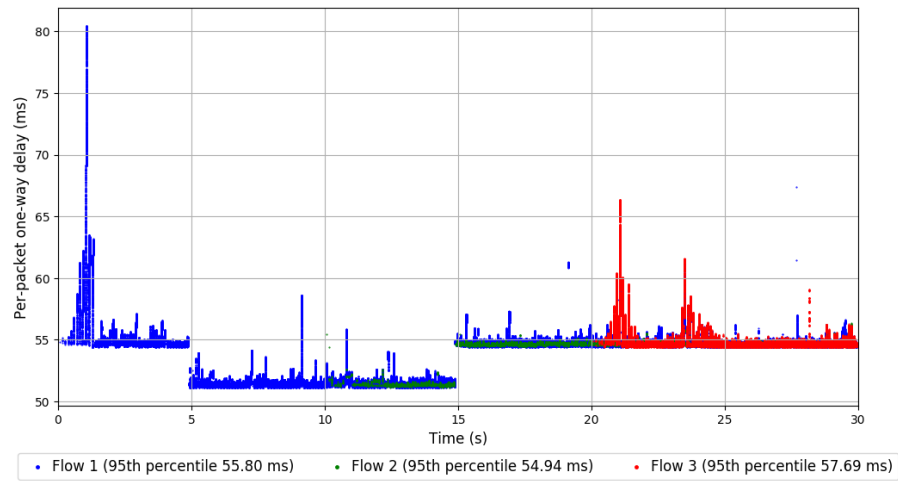
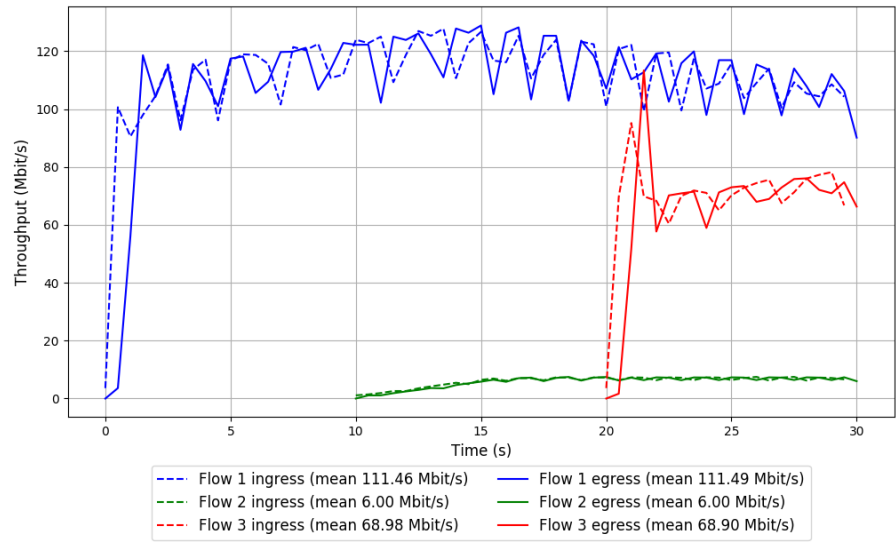


Run 6: Statistics of TCP Vegas

Start at: 2018-06-20 23:58:27
End at: 2018-06-20 23:58:57
Local clock offset: -0.138 ms
Remote clock offset: -1.124 ms

Below is generated by plot.py at 2018-06-21 03:52:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 138.20 Mbit/s
95th percentile per-packet one-way delay: 56.048 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 111.49 Mbit/s
95th percentile per-packet one-way delay: 55.802 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 6.00 Mbit/s
95th percentile per-packet one-way delay: 54.942 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 68.90 Mbit/s
95th percentile per-packet one-way delay: 57.689 ms
Loss rate: 1.14%

Run 6: Report of TCP Vegas — Data Link

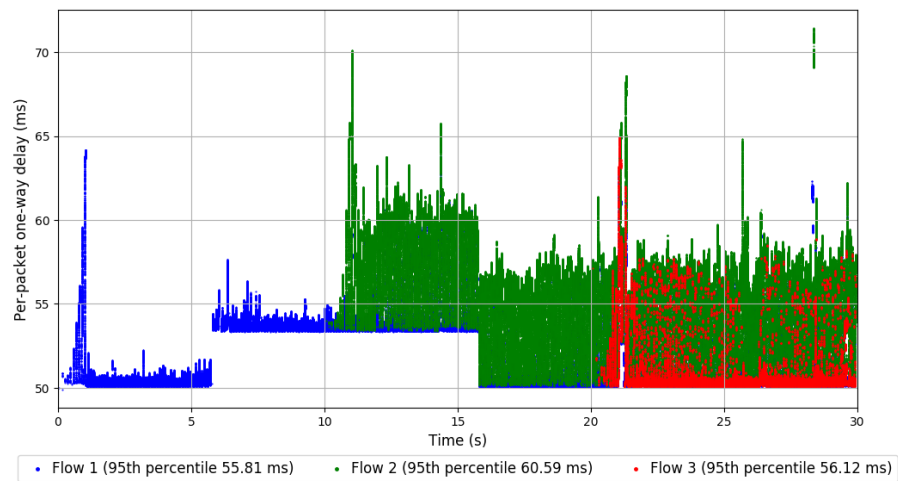
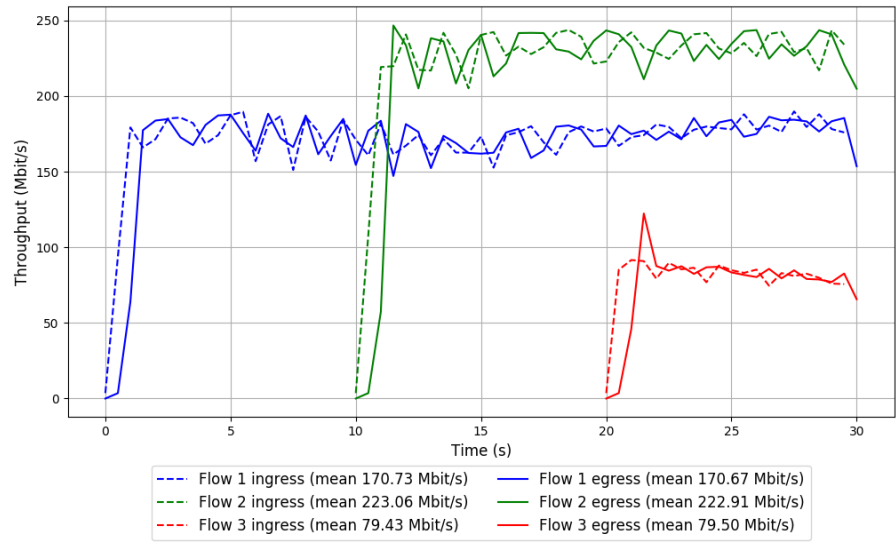


Run 7: Statistics of TCP Vegas

Start at: 2018-06-21 00:21:36
End at: 2018-06-21 00:22:06
Local clock offset: -0.025 ms
Remote clock offset: -0.194 ms

Below is generated by plot.py at 2018-06-21 03:53:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 345.05 Mbit/s
95th percentile per-packet one-way delay: 59.623 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 170.67 Mbit/s
95th percentile per-packet one-way delay: 55.814 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 222.91 Mbit/s
95th percentile per-packet one-way delay: 60.595 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 79.50 Mbit/s
95th percentile per-packet one-way delay: 56.125 ms
Loss rate: 1.03%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-06-21 00:44:52

End at: 2018-06-21 00:45:22

Local clock offset: 0.231 ms

Remote clock offset: -0.48 ms

Below is generated by plot.py at 2018-06-21 03:53:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.59 Mbit/s

95th percentile per-packet one-way delay: 57.607 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 223.45 Mbit/s

95th percentile per-packet one-way delay: 57.650 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 91.09 Mbit/s

95th percentile per-packet one-way delay: 56.682 ms

Loss rate: 0.50%

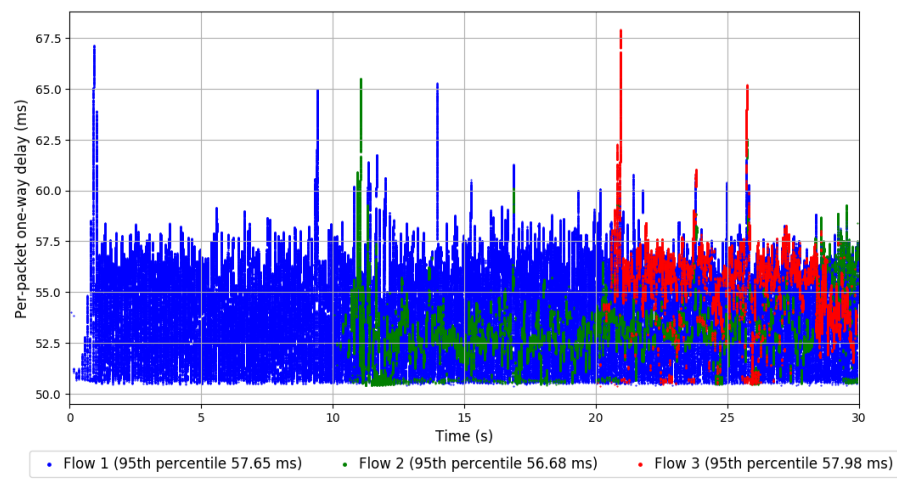
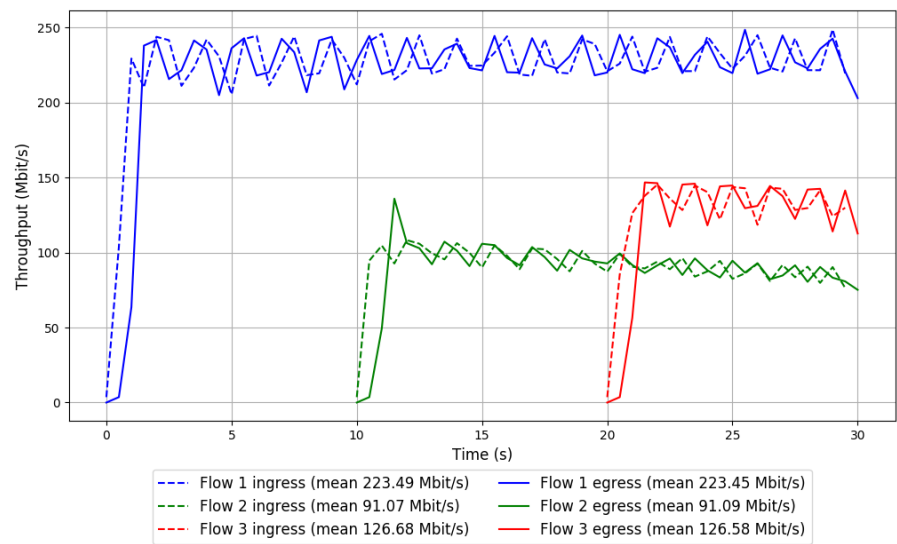
-- Flow 3:

Average throughput: 126.58 Mbit/s

95th percentile per-packet one-way delay: 57.976 ms

Loss rate: 1.12%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-06-21 01:08:01

End at: 2018-06-21 01:08:31

Local clock offset: -0.189 ms

Remote clock offset: -0.19 ms

Below is generated by plot.py at 2018-06-21 03:54:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 308.29 Mbit/s

95th percentile per-packet one-way delay: 62.036 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 221.35 Mbit/s

95th percentile per-packet one-way delay: 61.901 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 125.18 Mbit/s

95th percentile per-packet one-way delay: 62.240 ms

Loss rate: 0.55%

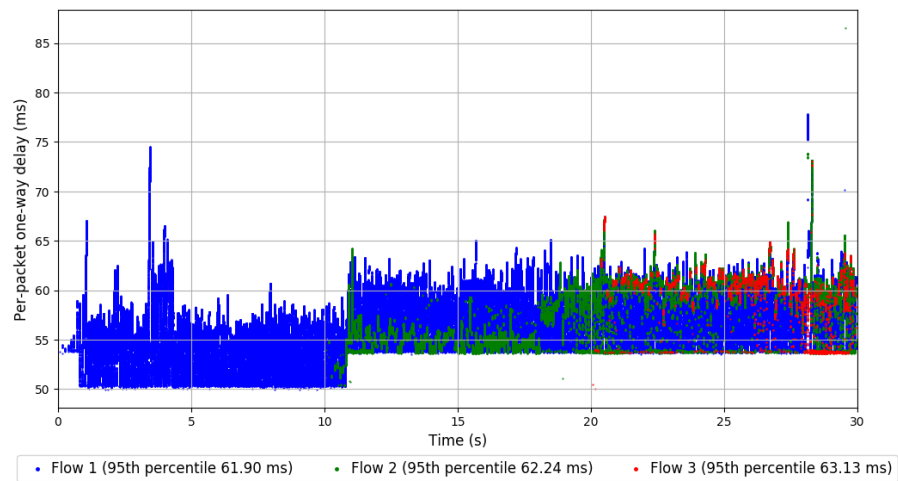
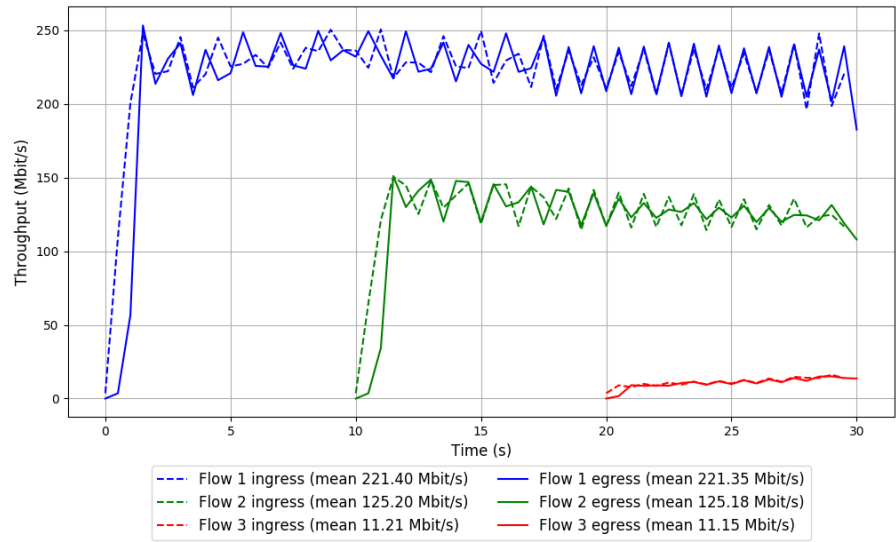
-- Flow 3:

Average throughput: 11.15 Mbit/s

95th percentile per-packet one-way delay: 63.127 ms

Loss rate: 1.54%

Run 9: Report of TCP Vegas — Data Link

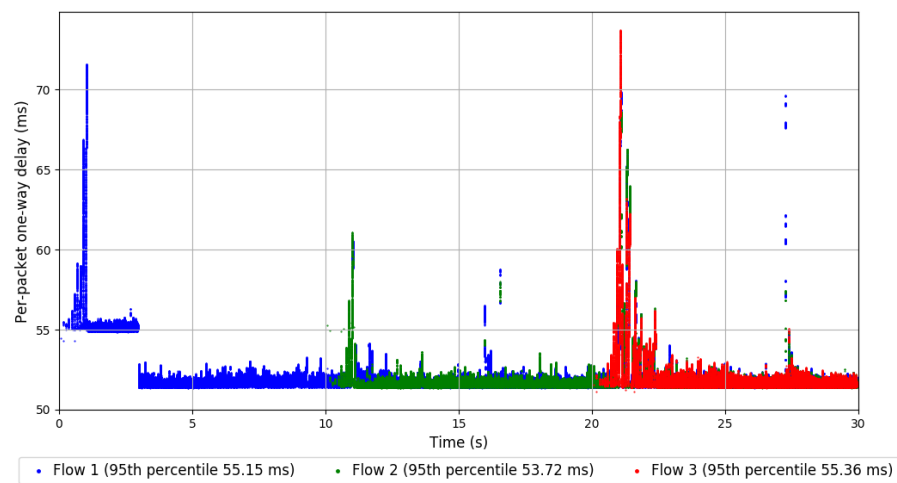
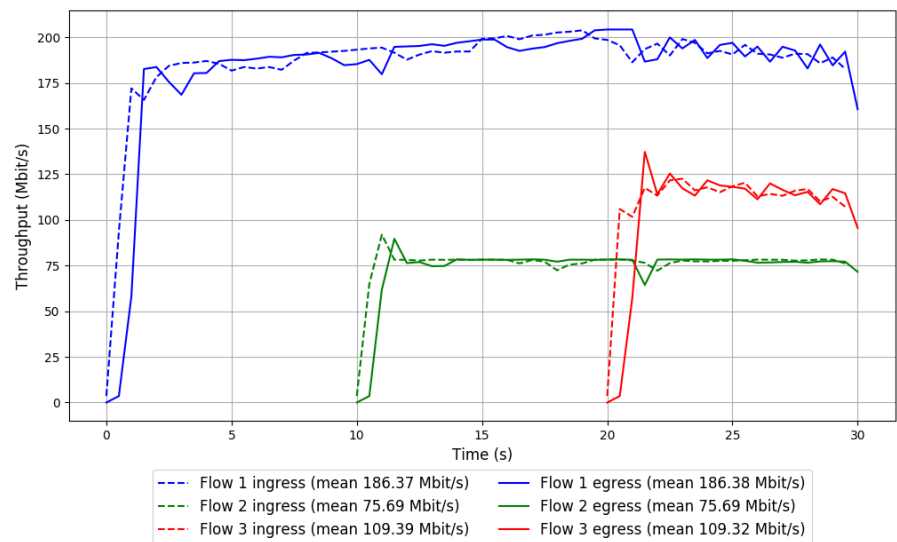


Run 10: Statistics of TCP Vegas

Start at: 2018-06-21 01:31:09
End at: 2018-06-21 01:31:39
Local clock offset: 0.034 ms
Remote clock offset: -1.099 ms

Below is generated by plot.py at 2018-06-21 03:54:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 272.76 Mbit/s
95th percentile per-packet one-way delay: 55.127 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 186.38 Mbit/s
95th percentile per-packet one-way delay: 55.145 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 75.69 Mbit/s
95th percentile per-packet one-way delay: 53.720 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 109.32 Mbit/s
95th percentile per-packet one-way delay: 55.364 ms
Loss rate: 0.99%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-06-20 22:01:15

End at: 2018-06-20 22:01:45

Local clock offset: -0.024 ms

Remote clock offset: 0.195 ms

Below is generated by plot.py at 2018-06-21 03:56:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 348.41 Mbit/s

95th percentile per-packet one-way delay: 226.690 ms

Loss rate: 1.80%

-- Flow 1:

Average throughput: 268.97 Mbit/s

95th percentile per-packet one-way delay: 231.987 ms

Loss rate: 1.71%

-- Flow 2:

Average throughput: 88.13 Mbit/s

95th percentile per-packet one-way delay: 162.369 ms

Loss rate: 1.38%

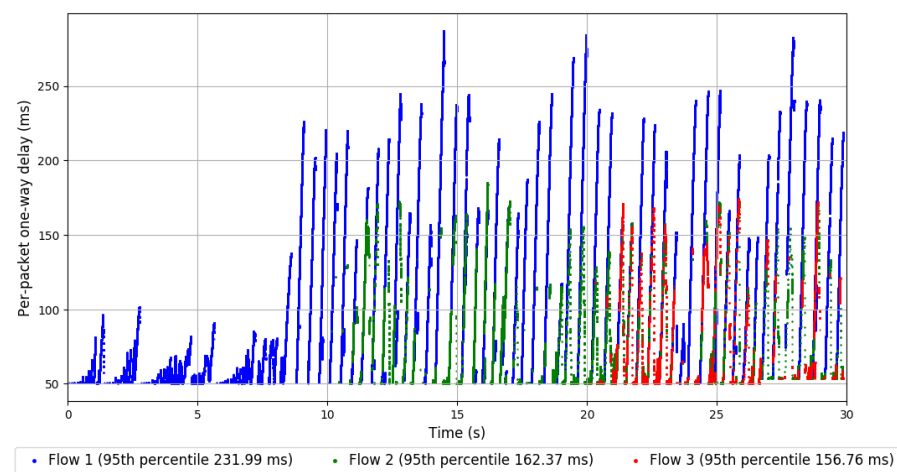
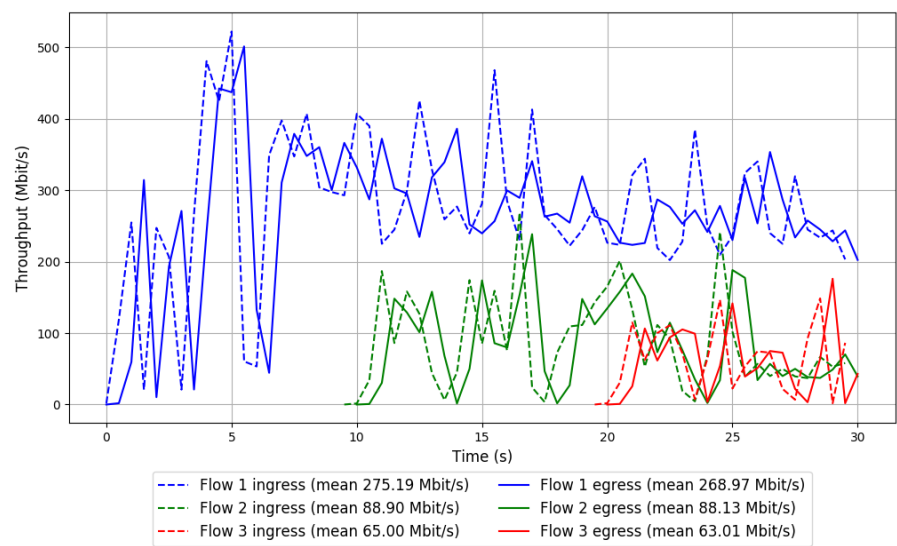
-- Flow 3:

Average throughput: 63.01 Mbit/s

95th percentile per-packet one-way delay: 156.757 ms

Loss rate: 4.06%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-06-20 22:24:21

End at: 2018-06-20 22:24:51

Local clock offset: 0.104 ms

Remote clock offset: 1.61 ms

Below is generated by plot.py at 2018-06-21 03:56:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 335.02 Mbit/s

95th percentile per-packet one-way delay: 111.202 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 160.12 Mbit/s

95th percentile per-packet one-way delay: 87.914 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 197.37 Mbit/s

95th percentile per-packet one-way delay: 126.761 ms

Loss rate: 2.07%

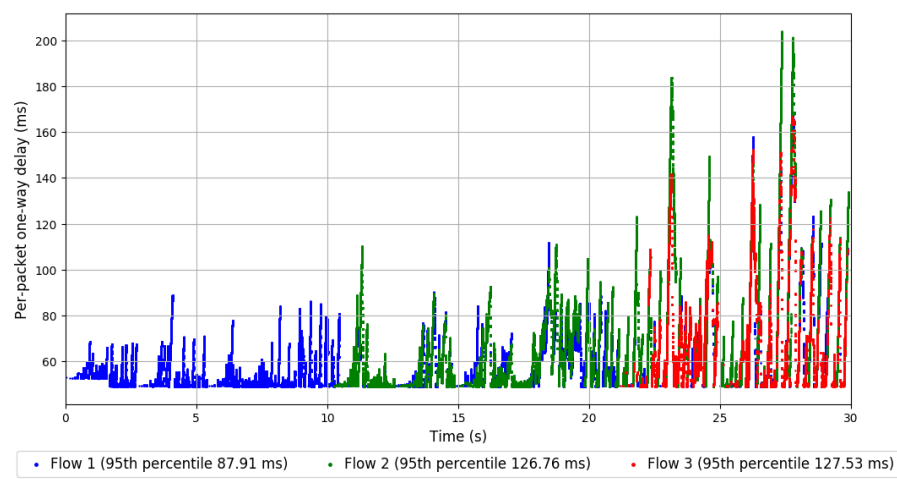
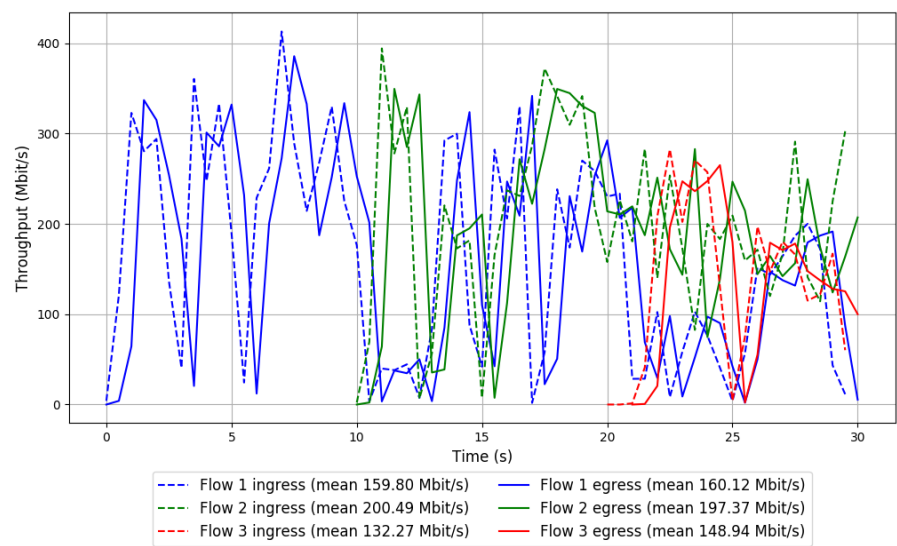
-- Flow 3:

Average throughput: 148.94 Mbit/s

95th percentile per-packet one-way delay: 127.528 ms

Loss rate: 0.40%

Run 2: Report of Verus — Data Link

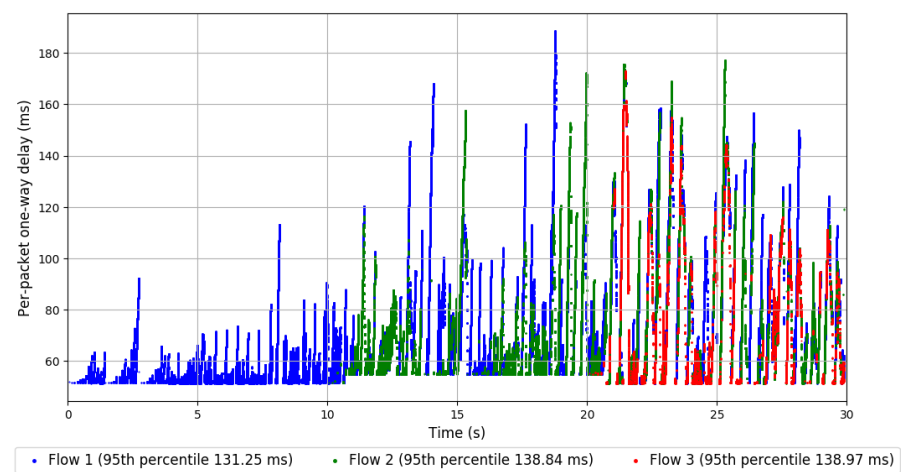
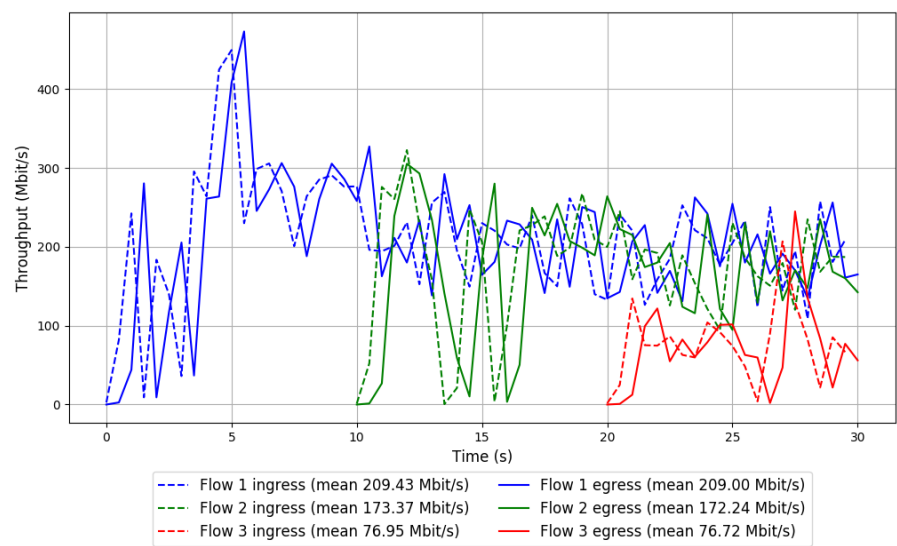


Run 3: Statistics of Verus

Start at: 2018-06-20 22:47:22
End at: 2018-06-20 22:47:52
Local clock offset: 0.113 ms
Remote clock offset: -0.756 ms

Below is generated by plot.py at 2018-06-21 03:57:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 348.62 Mbit/s
95th percentile per-packet one-way delay: 136.014 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 209.00 Mbit/s
95th percentile per-packet one-way delay: 131.255 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 172.24 Mbit/s
95th percentile per-packet one-way delay: 138.838 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 76.72 Mbit/s
95th percentile per-packet one-way delay: 138.971 ms
Loss rate: 1.36%

Run 3: Report of Verus — Data Link

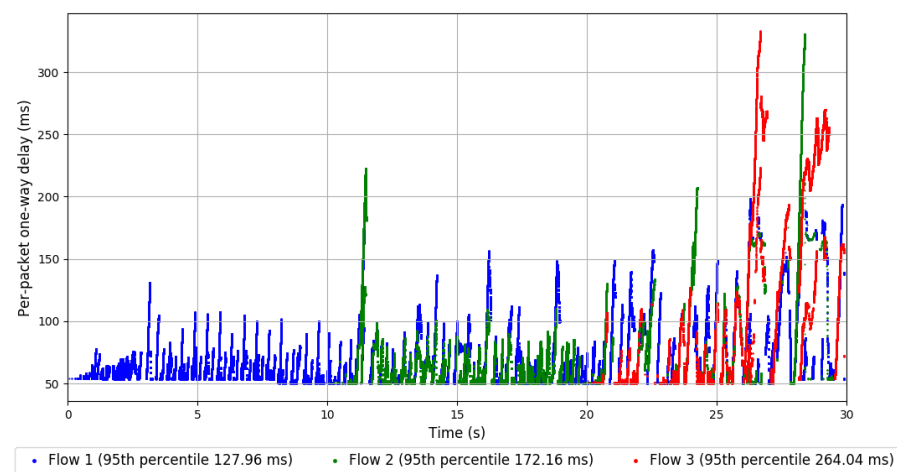
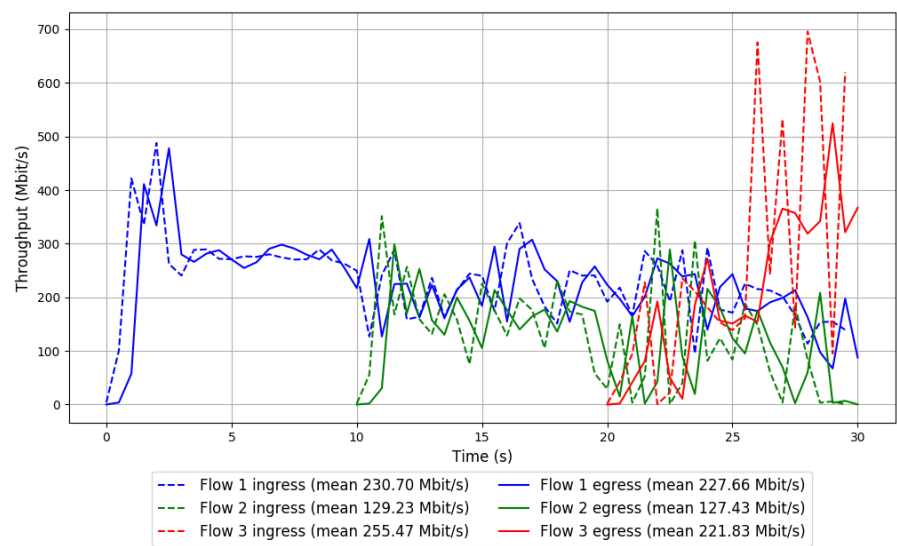


Run 4: Statistics of Verus

Start at: 2018-06-20 23:10:04
End at: 2018-06-20 23:10:34
Local clock offset: -0.253 ms
Remote clock offset: 0.375 ms

Below is generated by plot.py at 2018-06-21 03:59:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 384.84 Mbit/s
95th percentile per-packet one-way delay: 218.996 ms
Loss rate: 4.26%
-- Flow 1:
Average throughput: 227.66 Mbit/s
95th percentile per-packet one-way delay: 127.962 ms
Loss rate: 1.51%
-- Flow 2:
Average throughput: 127.43 Mbit/s
95th percentile per-packet one-way delay: 172.160 ms
Loss rate: 1.92%
-- Flow 3:
Average throughput: 221.83 Mbit/s
95th percentile per-packet one-way delay: 264.036 ms
Loss rate: 14.09%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-06-20 23:33:01

End at: 2018-06-20 23:33:31

Local clock offset: -0.19 ms

Remote clock offset: 0.389 ms

Below is generated by plot.py at 2018-06-21 03:59:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 301.29 Mbit/s

95th percentile per-packet one-way delay: 128.410 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 205.08 Mbit/s

95th percentile per-packet one-way delay: 125.208 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 105.97 Mbit/s

95th percentile per-packet one-way delay: 127.518 ms

Loss rate: 1.21%

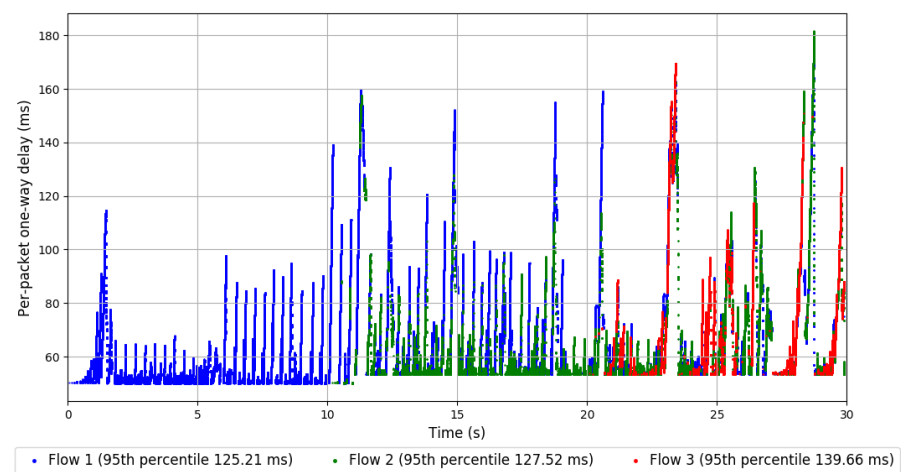
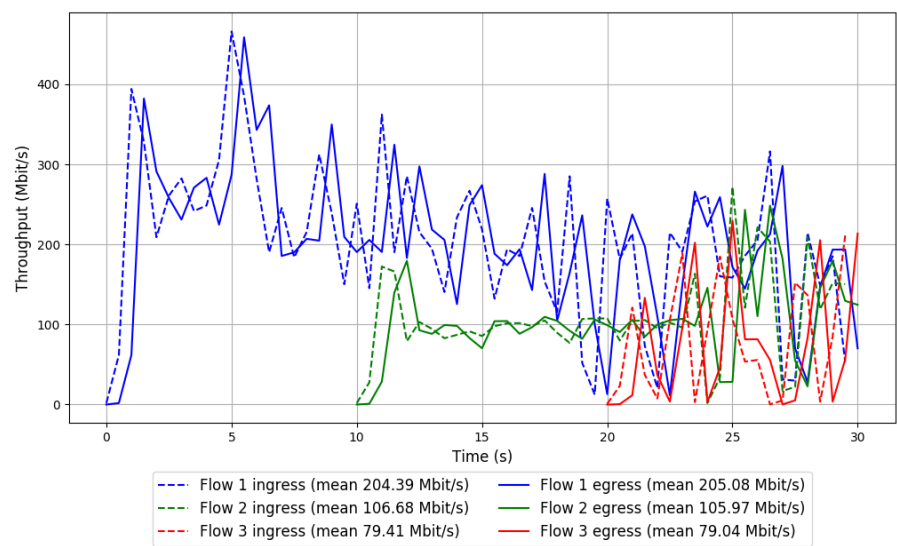
-- Flow 3:

Average throughput: 79.04 Mbit/s

95th percentile per-packet one-way delay: 139.661 ms

Loss rate: 1.68%

Run 5: Report of Verus — Data Link

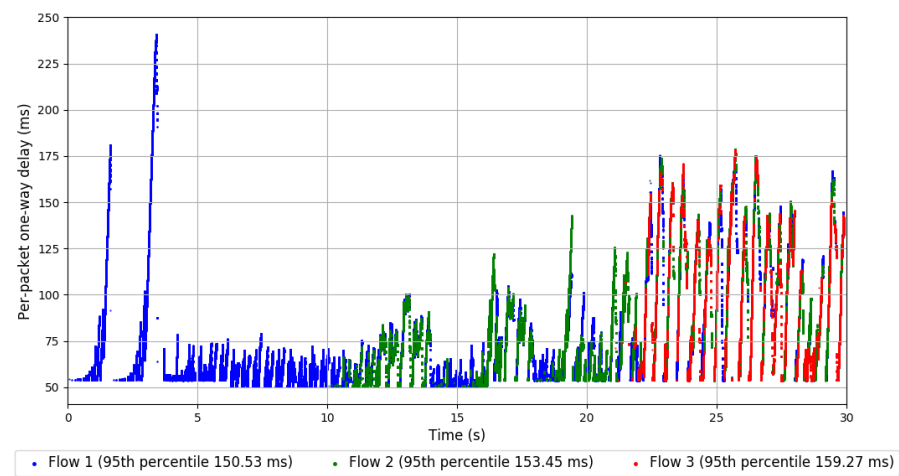
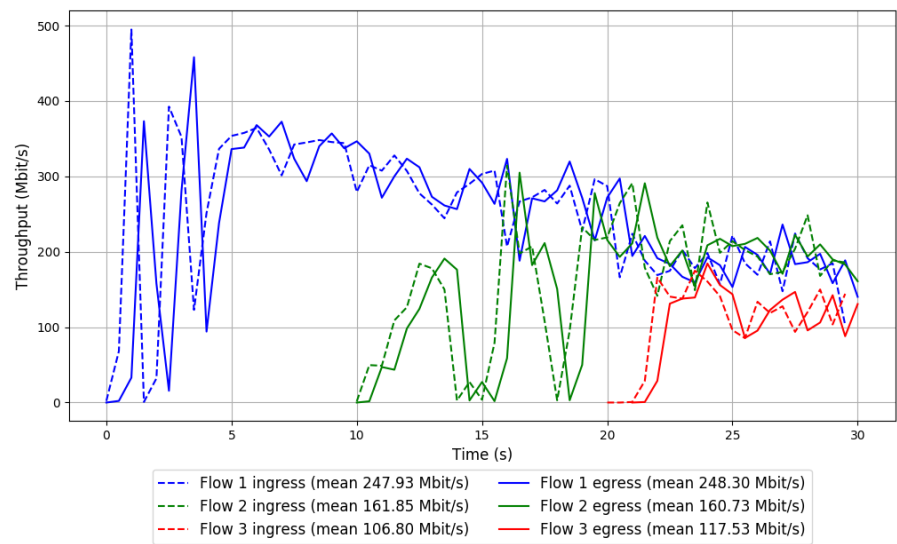


Run 6: Statistics of Verus

Start at: 2018-06-20 23:55:46
End at: 2018-06-20 23:56:16
Local clock offset: 0.072 ms
Remote clock offset: -0.125 ms

Below is generated by plot.py at 2018-06-21 04:00:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 389.83 Mbit/s
95th percentile per-packet one-way delay: 152.748 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 248.30 Mbit/s
95th percentile per-packet one-way delay: 150.532 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 160.73 Mbit/s
95th percentile per-packet one-way delay: 153.452 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 117.53 Mbit/s
95th percentile per-packet one-way delay: 159.273 ms
Loss rate: 2.43%

Run 6: Report of Verus — Data Link

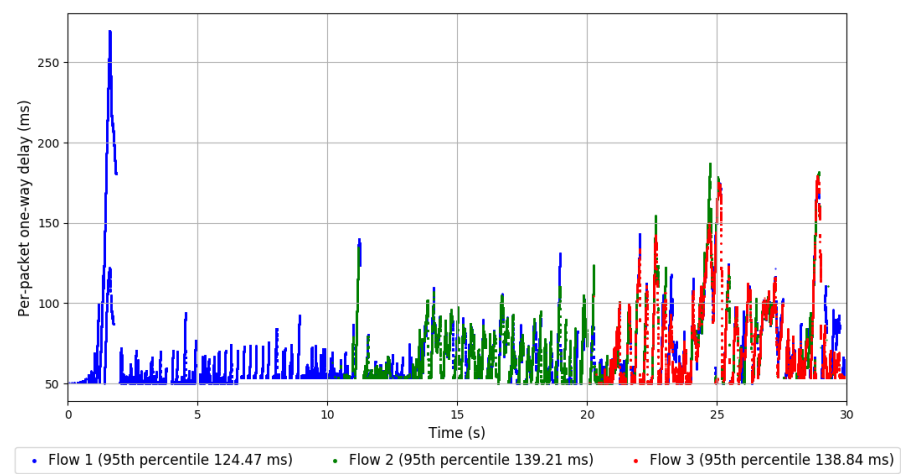
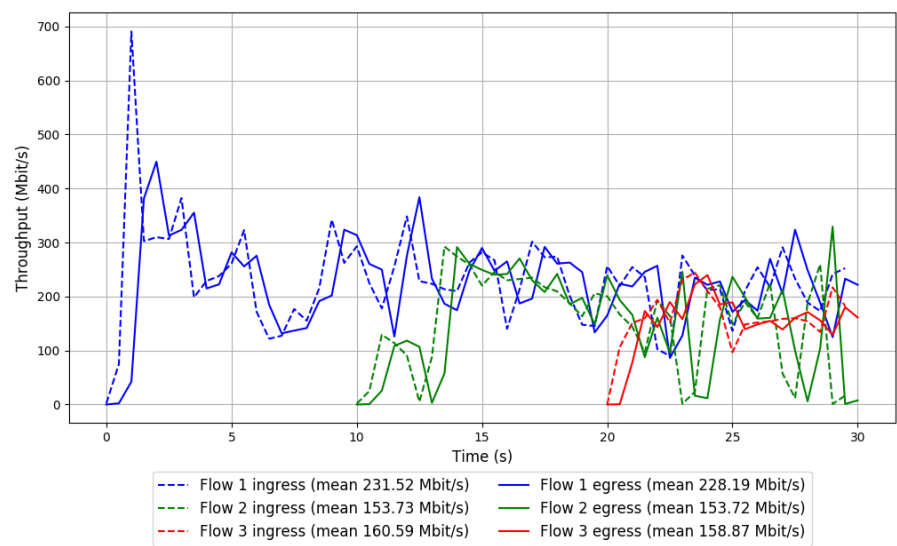


Run 7: Statistics of Verus

Start at: 2018-06-21 00:18:56
End at: 2018-06-21 00:19:26
Local clock offset: -0.077 ms
Remote clock offset: -0.404 ms

Below is generated by plot.py at 2018-06-21 04:01:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 382.16 Mbit/s
95th percentile per-packet one-way delay: 134.927 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 228.19 Mbit/s
95th percentile per-packet one-way delay: 124.473 ms
Loss rate: 1.78%
-- Flow 2:
Average throughput: 153.72 Mbit/s
95th percentile per-packet one-way delay: 139.213 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 158.87 Mbit/s
95th percentile per-packet one-way delay: 138.845 ms
Loss rate: 2.08%

Run 7: Report of Verus — Data Link

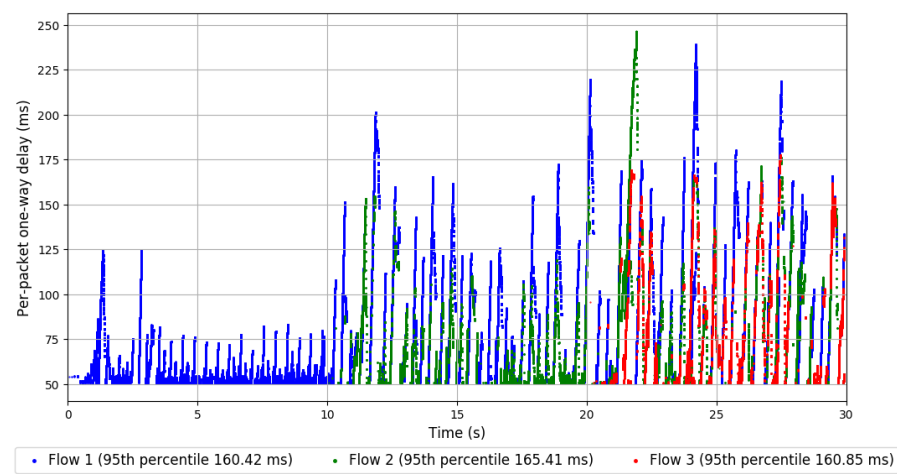
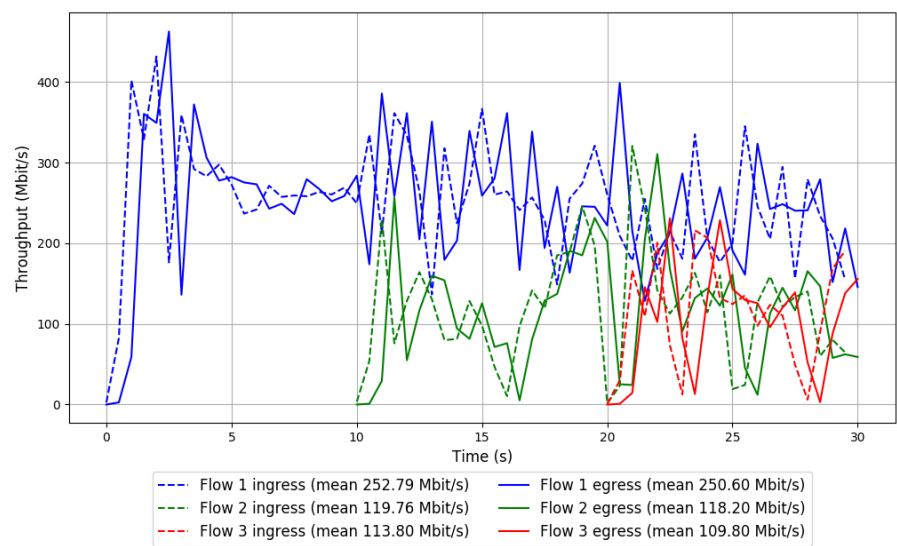


Run 8: Statistics of Verus

Start at: 2018-06-21 00:42:12
End at: 2018-06-21 00:42:42
Local clock offset: 0.149 ms
Remote clock offset: -0.593 ms

Below is generated by plot.py at 2018-06-21 04:01:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 365.04 Mbit/s
95th percentile per-packet one-way delay: 161.054 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 250.60 Mbit/s
95th percentile per-packet one-way delay: 160.420 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 118.20 Mbit/s
95th percentile per-packet one-way delay: 165.406 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 109.80 Mbit/s
95th percentile per-packet one-way delay: 160.848 ms
Loss rate: 4.48%

Run 8: Report of Verus — Data Link

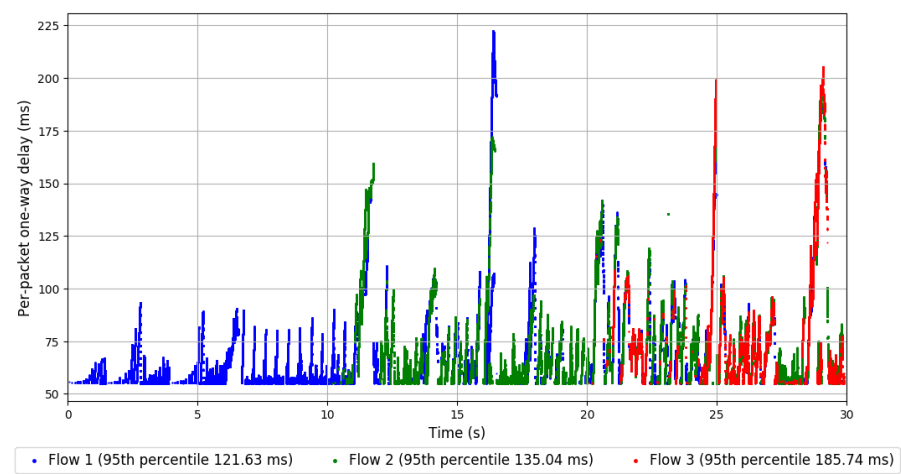
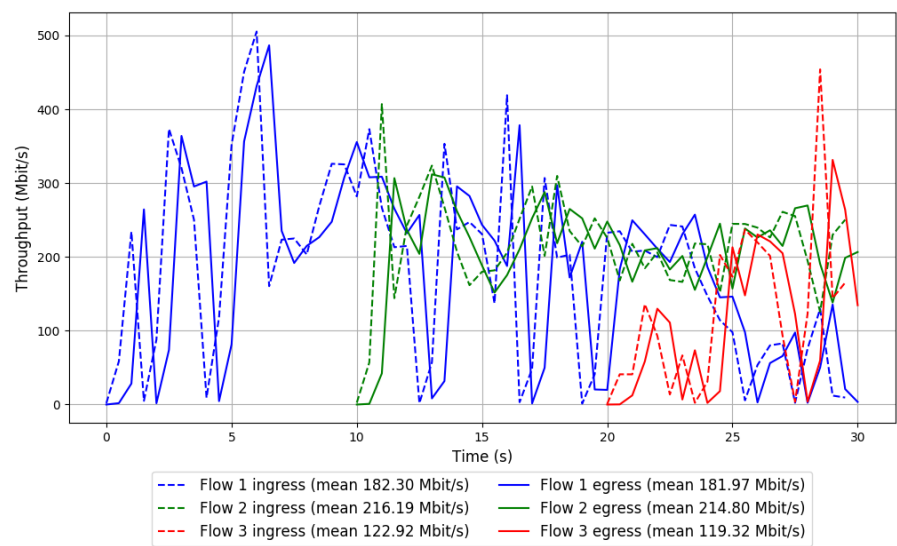


Run 9: Statistics of Verus

Start at: 2018-06-21 01:05:22
End at: 2018-06-21 01:05:52
Local clock offset: 0.038 ms
Remote clock offset: -1.415 ms

Below is generated by plot.py at 2018-06-21 04:02:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 363.14 Mbit/s
95th percentile per-packet one-way delay: 136.352 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 181.97 Mbit/s
95th percentile per-packet one-way delay: 121.632 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 214.80 Mbit/s
95th percentile per-packet one-way delay: 135.040 ms
Loss rate: 1.50%
-- Flow 3:
Average throughput: 119.32 Mbit/s
95th percentile per-packet one-way delay: 185.740 ms
Loss rate: 3.97%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-06-21 01:28:28

End at: 2018-06-21 01:28:58

Local clock offset: -0.031 ms

Remote clock offset: 0.067 ms

Below is generated by plot.py at 2018-06-21 04:03:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 385.06 Mbit/s

95th percentile per-packet one-way delay: 167.126 ms

Loss rate: 2.47%

-- Flow 1:

Average throughput: 240.93 Mbit/s

95th percentile per-packet one-way delay: 129.521 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 146.93 Mbit/s

95th percentile per-packet one-way delay: 228.372 ms

Loss rate: 5.93%

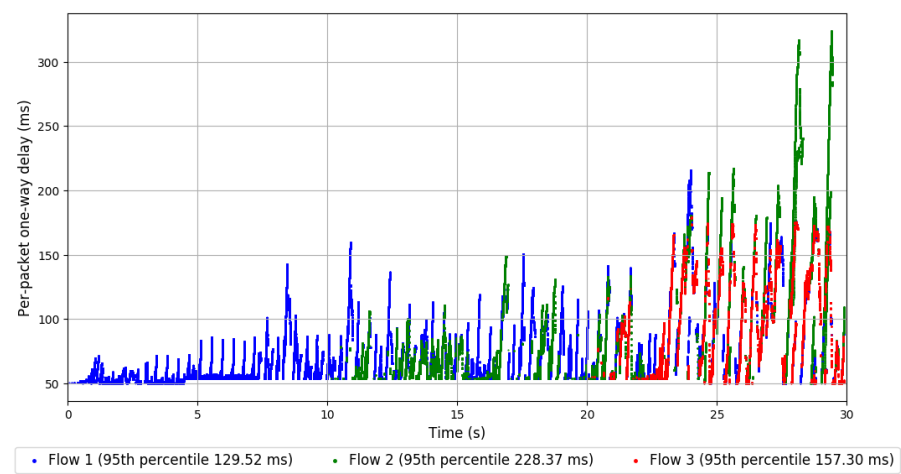
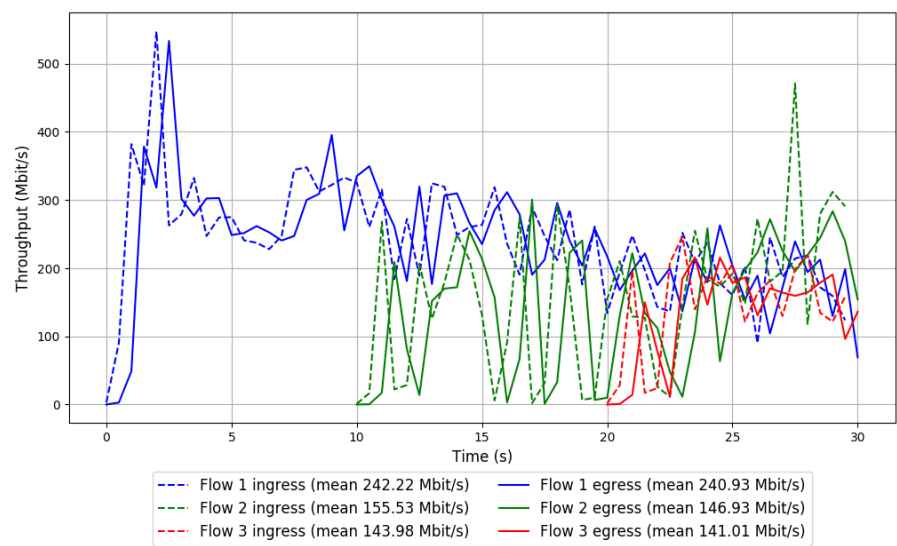
-- Flow 3:

Average throughput: 141.01 Mbit/s

95th percentile per-packet one-way delay: 157.301 ms

Loss rate: 3.11%

Run 10: Report of Verus — Data Link

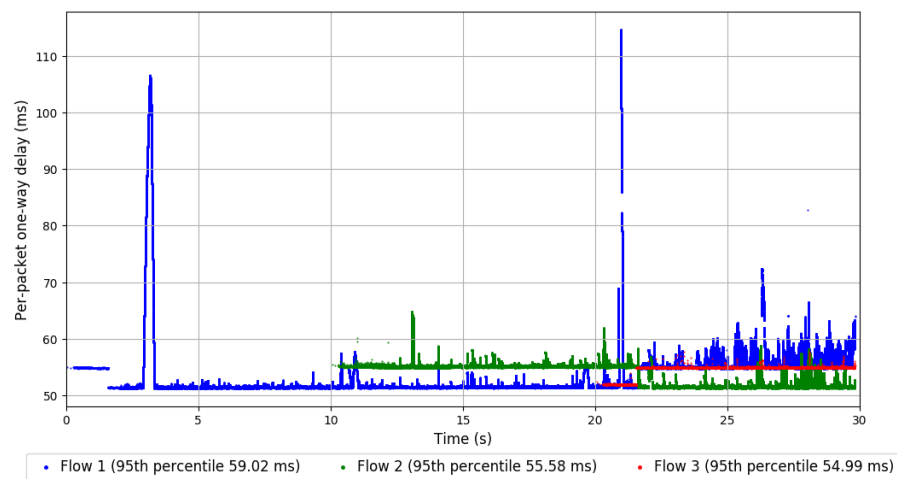
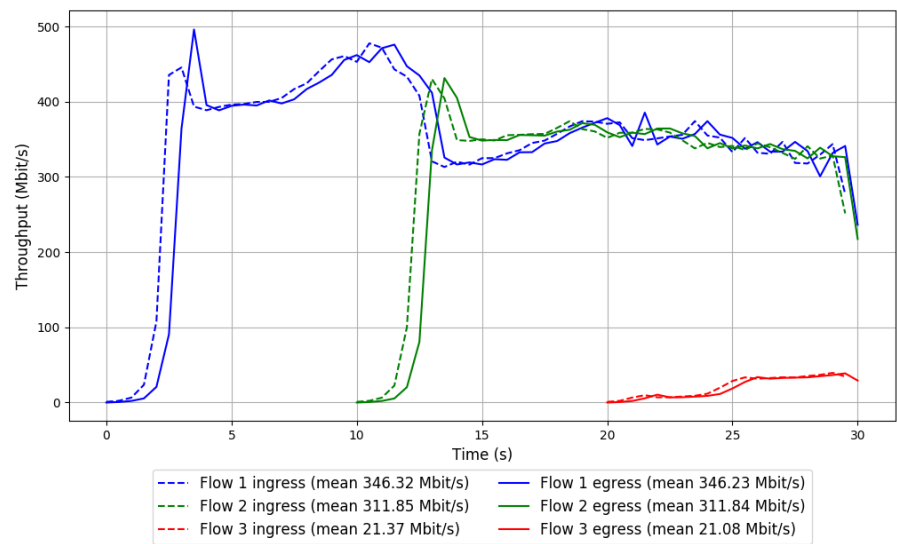


Run 1: Statistics of PCC-Vivace

Start at: 2018-06-20 22:08:20
End at: 2018-06-20 22:08:50
Local clock offset: -0.099 ms
Remote clock offset: -1.015 ms

Below is generated by plot.py at 2018-06-21 04:07:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 560.15 Mbit/s
95th percentile per-packet one-way delay: 57.763 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 346.23 Mbit/s
95th percentile per-packet one-way delay: 59.023 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 311.84 Mbit/s
95th percentile per-packet one-way delay: 55.578 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 21.08 Mbit/s
95th percentile per-packet one-way delay: 54.993 ms
Loss rate: 2.42%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-20 22:31:08

End at: 2018-06-20 22:31:38

Local clock offset: 0.166 ms

Remote clock offset: 0.2 ms

Below is generated by plot.py at 2018-06-21 04:08:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 542.08 Mbit/s

95th percentile per-packet one-way delay: 58.110 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 351.37 Mbit/s

95th percentile per-packet one-way delay: 58.709 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 279.82 Mbit/s

95th percentile per-packet one-way delay: 57.139 ms

Loss rate: 0.46%

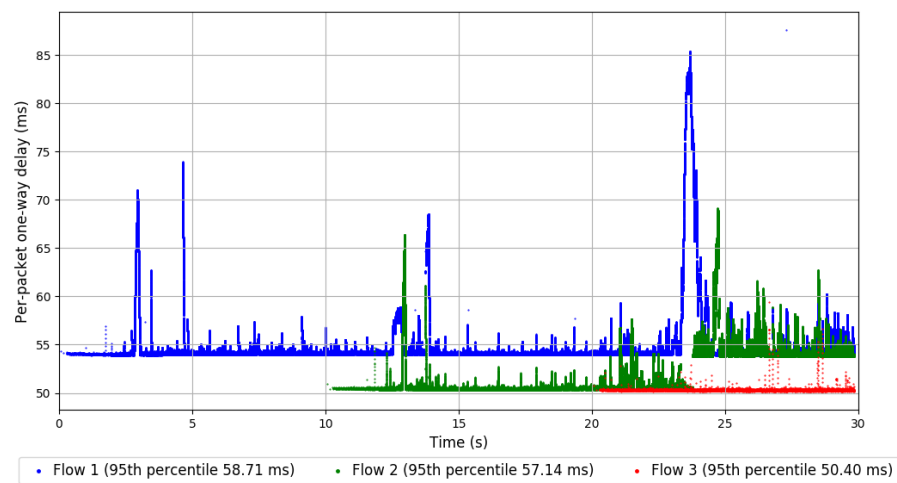
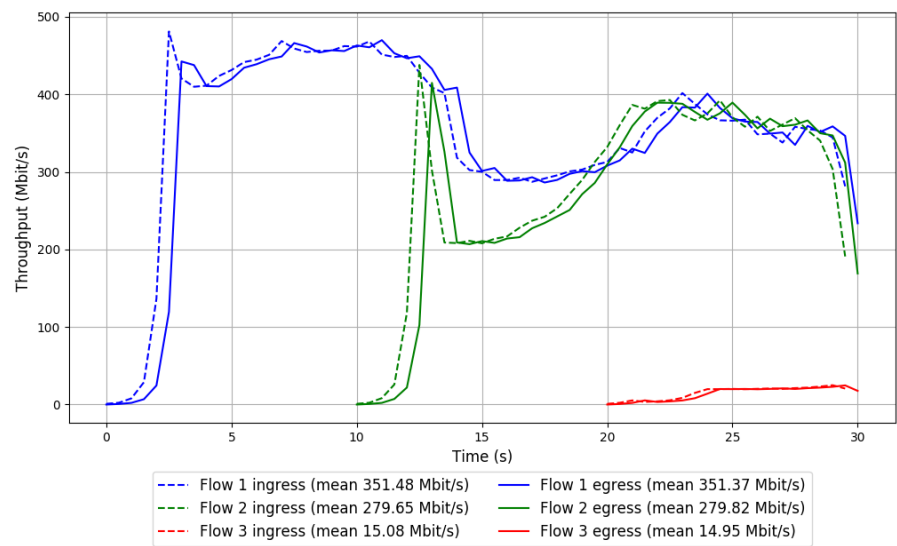
-- Flow 3:

Average throughput: 14.95 Mbit/s

95th percentile per-packet one-way delay: 50.400 ms

Loss rate: 1.91%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-20 22:54:01

End at: 2018-06-20 22:54:31

Local clock offset: 0.108 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2018-06-21 04:09:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 574.78 Mbit/s

95th percentile per-packet one-way delay: 57.979 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 349.65 Mbit/s

95th percentile per-packet one-way delay: 57.689 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 311.83 Mbit/s

95th percentile per-packet one-way delay: 68.869 ms

Loss rate: 0.93%

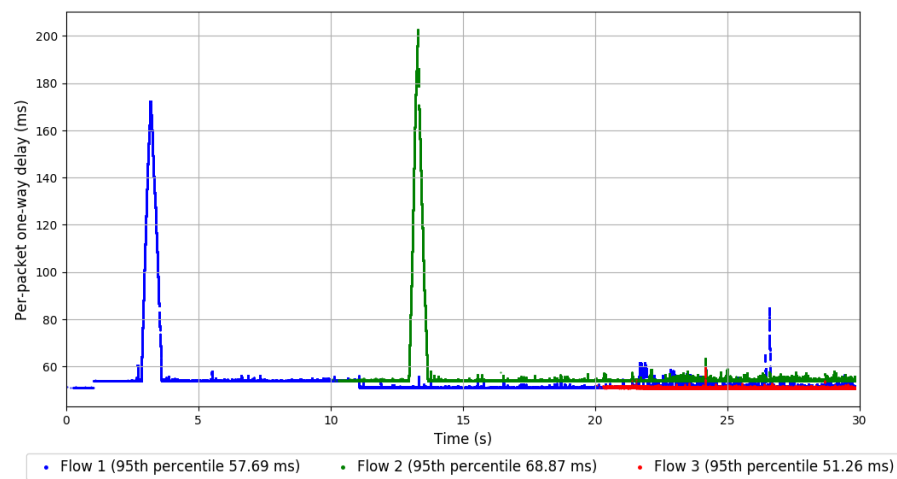
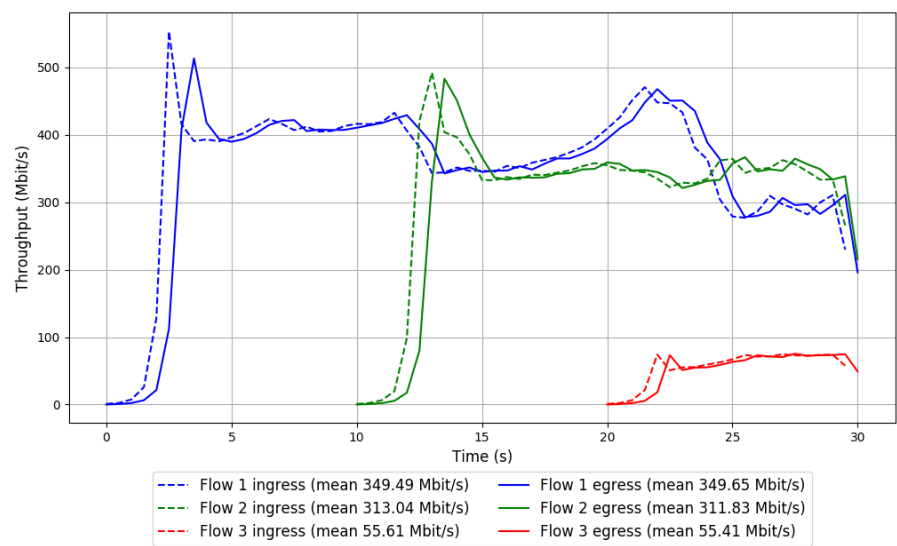
-- Flow 3:

Average throughput: 55.41 Mbit/s

95th percentile per-packet one-way delay: 51.260 ms

Loss rate: 1.43%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-20 23:16:49

End at: 2018-06-20 23:17:19

Local clock offset: -0.04 ms

Remote clock offset: 0.106 ms

Below is generated by plot.py at 2018-06-21 04:11:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 583.35 Mbit/s

95th percentile per-packet one-way delay: 54.504 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 354.52 Mbit/s

95th percentile per-packet one-way delay: 54.381 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 320.13 Mbit/s

95th percentile per-packet one-way delay: 54.555 ms

Loss rate: 1.02%

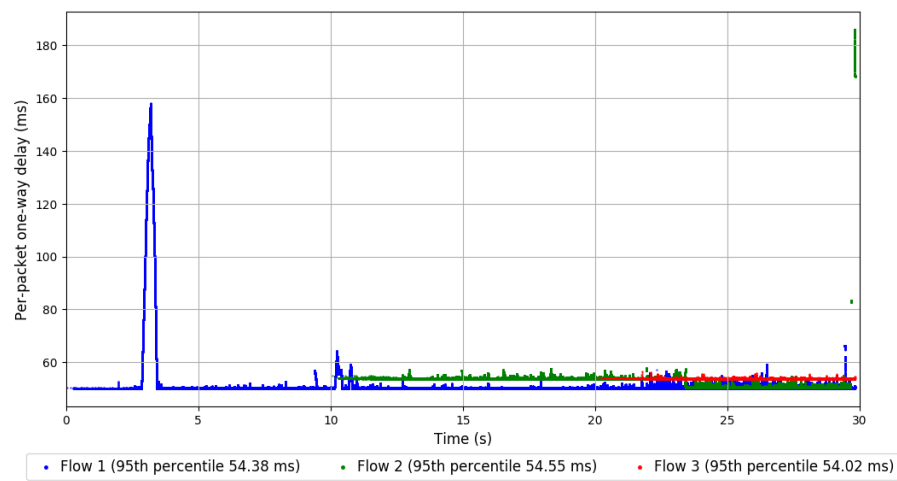
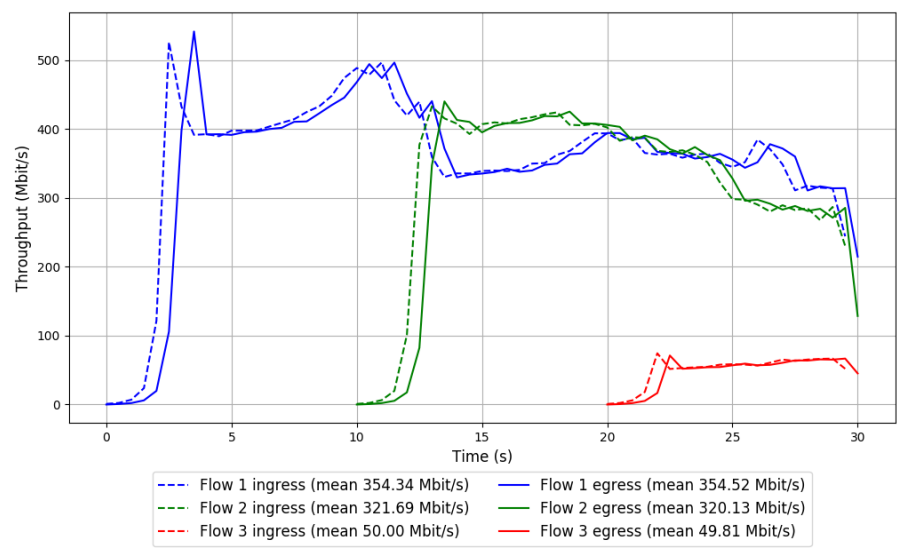
-- Flow 3:

Average throughput: 49.81 Mbit/s

95th percentile per-packet one-way delay: 54.023 ms

Loss rate: 1.45%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-06-20 23:39:48

End at: 2018-06-20 23:40:18

Local clock offset: -0.067 ms

Remote clock offset: 1.512 ms

Below is generated by plot.py at 2018-06-21 04:12:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 577.85 Mbit/s

95th percentile per-packet one-way delay: 54.869 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 336.72 Mbit/s

95th percentile per-packet one-way delay: 58.478 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 350.94 Mbit/s

95th percentile per-packet one-way delay: 53.373 ms

Loss rate: 0.52%

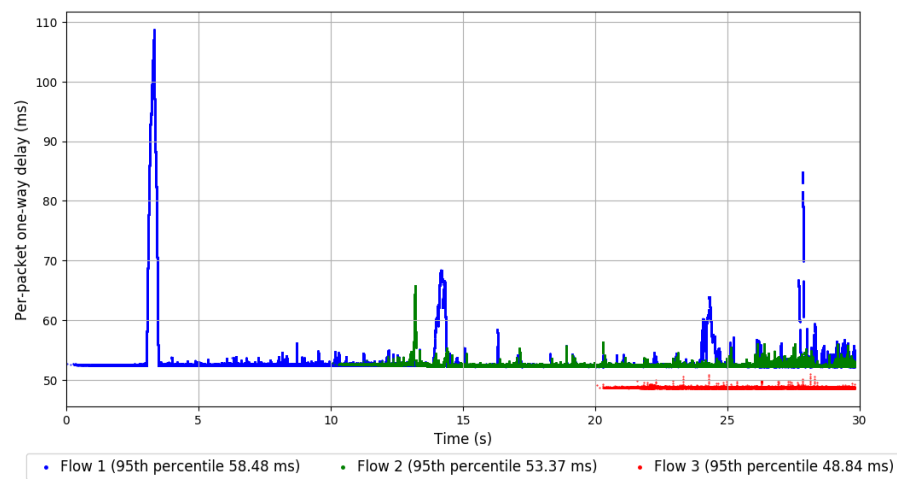
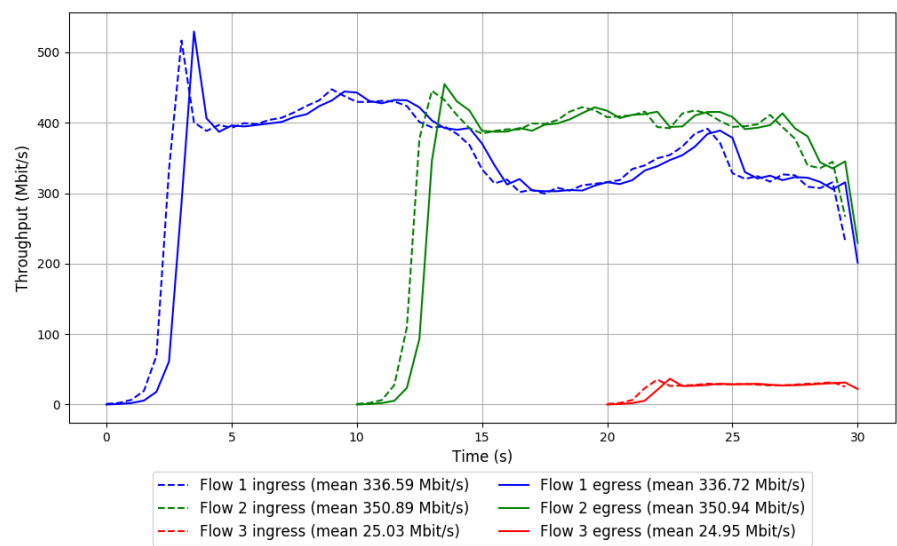
-- Flow 3:

Average throughput: 24.95 Mbit/s

95th percentile per-packet one-way delay: 48.843 ms

Loss rate: 1.33%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-06-21 00:02:41

End at: 2018-06-21 00:03:11

Local clock offset: -0.055 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-06-21 04:12:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 573.37 Mbit/s

95th percentile per-packet one-way delay: 66.597 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 374.92 Mbit/s

95th percentile per-packet one-way delay: 62.420 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 283.24 Mbit/s

95th percentile per-packet one-way delay: 159.960 ms

Loss rate: 1.19%

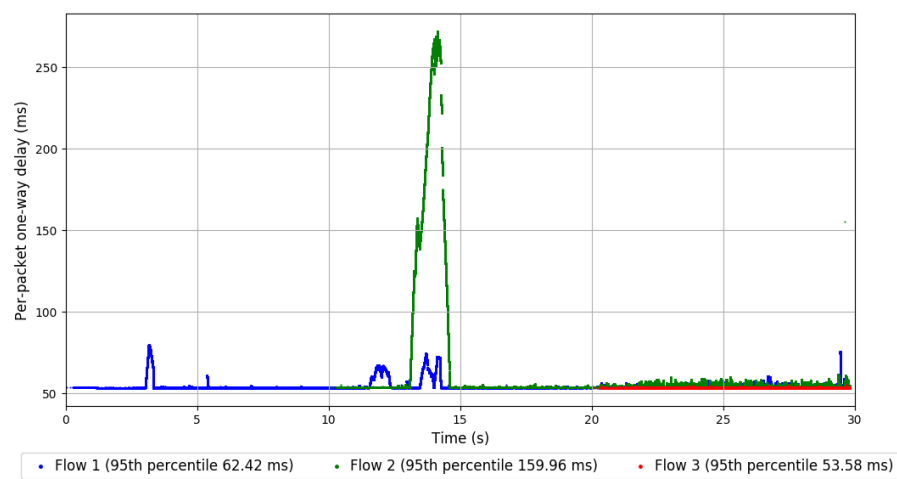
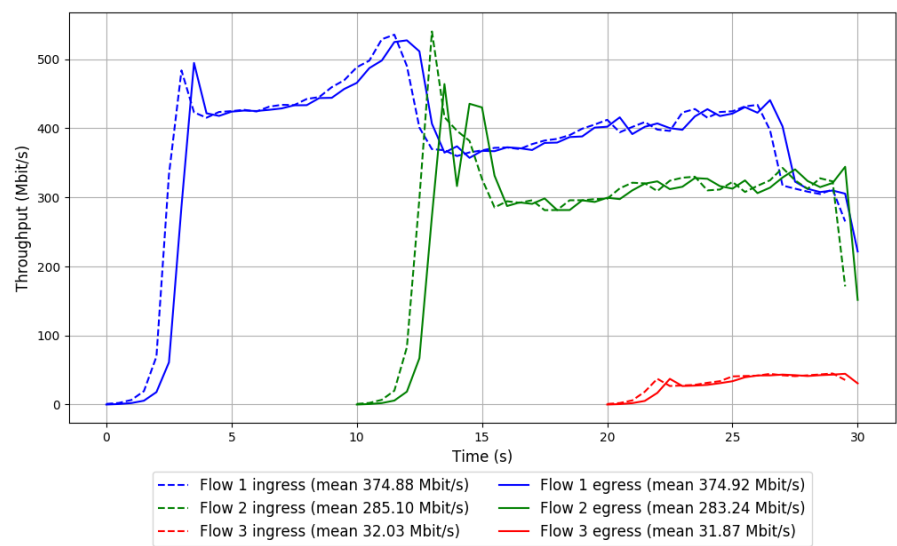
-- Flow 3:

Average throughput: 31.87 Mbit/s

95th percentile per-packet one-way delay: 53.581 ms

Loss rate: 1.58%

Run 6: Report of PCC-Vivace — Data Link

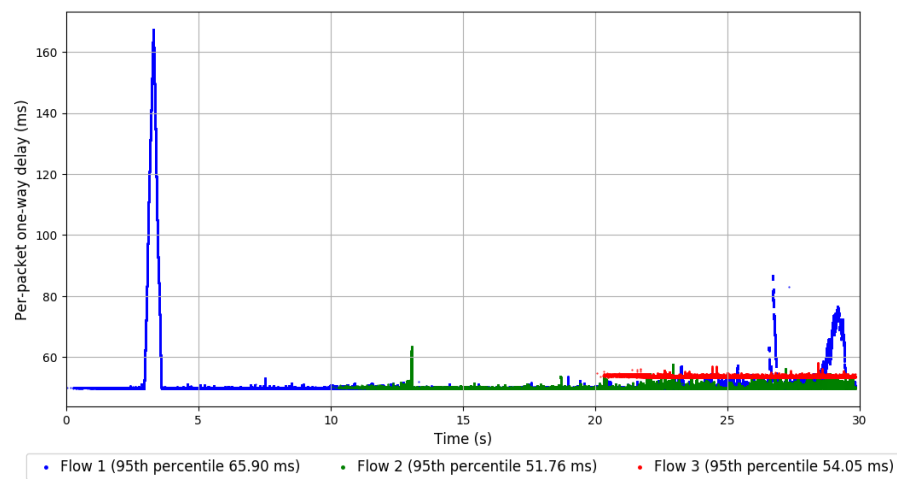
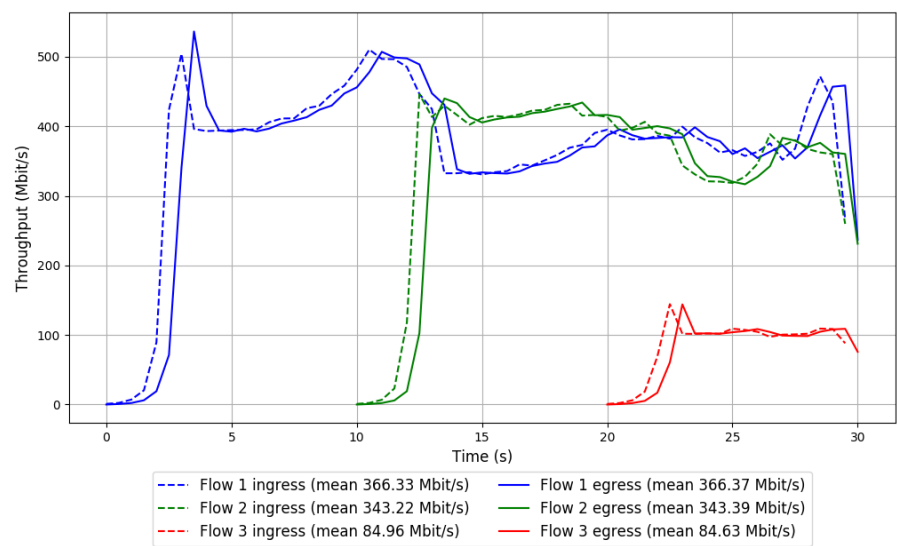


Run 7: Statistics of PCC-Vivace

Start at: 2018-06-21 00:26:07
End at: 2018-06-21 00:26:37
Local clock offset: -0.094 ms
Remote clock offset: -0.384 ms

Below is generated by plot.py at 2018-06-21 04:12:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 622.06 Mbit/s
95th percentile per-packet one-way delay: 54.231 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 366.37 Mbit/s
95th percentile per-packet one-way delay: 65.902 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 343.39 Mbit/s
95th percentile per-packet one-way delay: 51.760 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 84.63 Mbit/s
95th percentile per-packet one-way delay: 54.047 ms
Loss rate: 1.44%

Run 7: Report of PCC-Vivace — Data Link

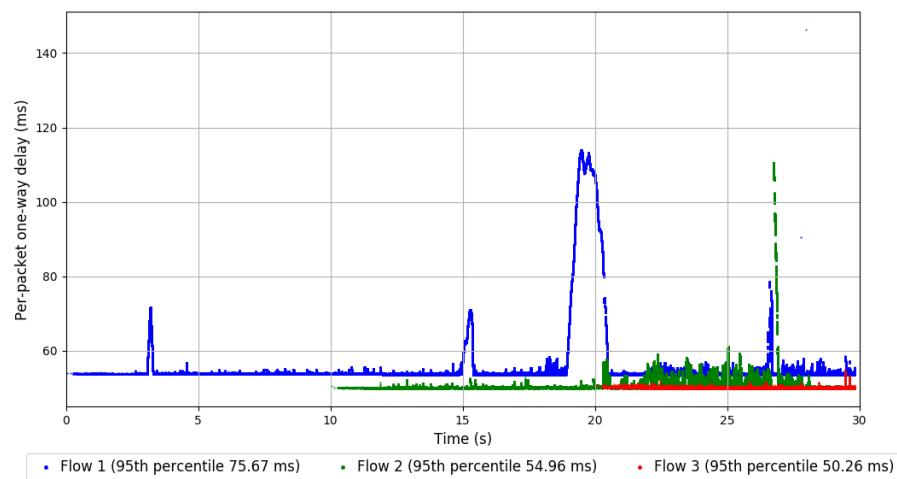
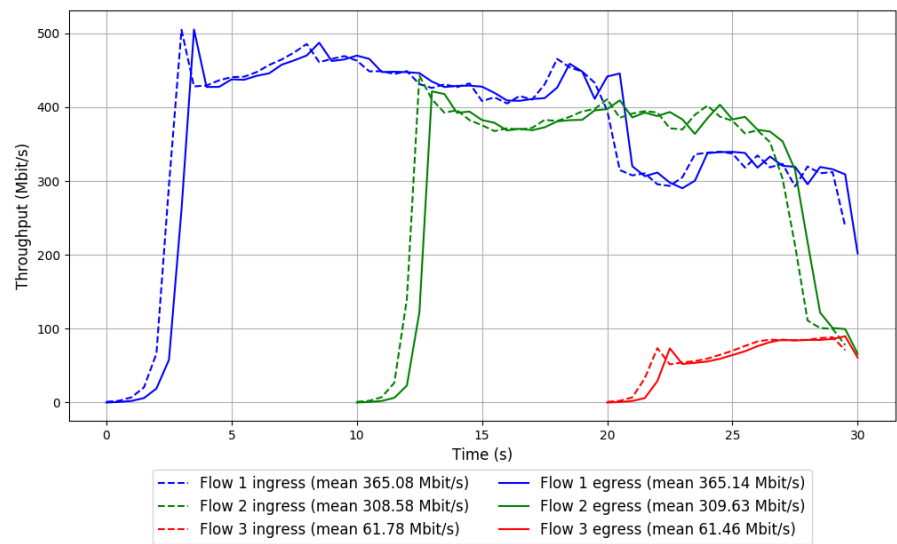


Run 8: Statistics of PCC-Vivace

Start at: 2018-06-21 00:49:10
End at: 2018-06-21 00:49:40
Local clock offset: 0.029 ms
Remote clock offset: -0.316 ms

Below is generated by plot.py at 2018-06-21 04:13:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 590.86 Mbit/s
95th percentile per-packet one-way delay: 62.944 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 365.14 Mbit/s
95th percentile per-packet one-way delay: 75.671 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 309.63 Mbit/s
95th percentile per-packet one-way delay: 54.964 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 61.46 Mbit/s
95th percentile per-packet one-way delay: 50.262 ms
Loss rate: 1.55%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-21 01:12:11

End at: 2018-06-21 01:12:41

Local clock offset: -0.216 ms

Remote clock offset: 1.269 ms

Below is generated by plot.py at 2018-06-21 04:14:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 630.70 Mbit/s

95th percentile per-packet one-way delay: 53.410 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 387.77 Mbit/s

95th percentile per-packet one-way delay: 53.928 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 344.29 Mbit/s

95th percentile per-packet one-way delay: 52.847 ms

Loss rate: 0.58%

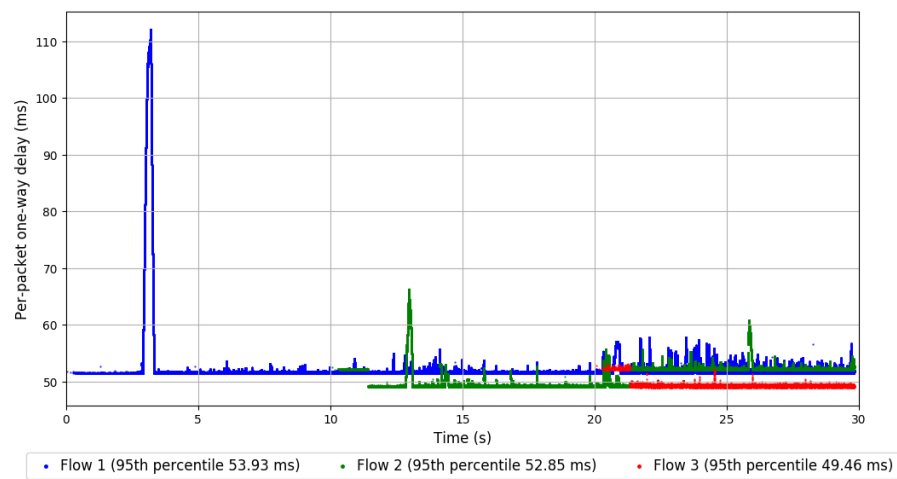
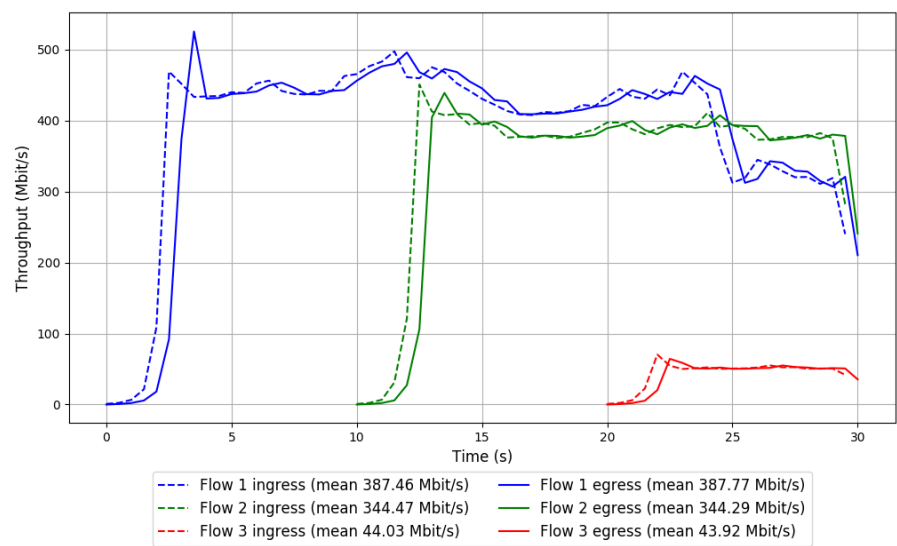
-- Flow 3:

Average throughput: 43.92 Mbit/s

95th percentile per-packet one-way delay: 49.457 ms

Loss rate: 1.32%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-06-21 01:35:34

End at: 2018-06-21 01:36:04

Local clock offset: 0.024 ms

Remote clock offset: 1.358 ms

Below is generated by plot.py at 2018-06-21 04:14:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 624.42 Mbit/s

95th percentile per-packet one-way delay: 53.600 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 387.44 Mbit/s

95th percentile per-packet one-way delay: 51.837 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 339.40 Mbit/s

95th percentile per-packet one-way delay: 54.595 ms

Loss rate: 0.35%

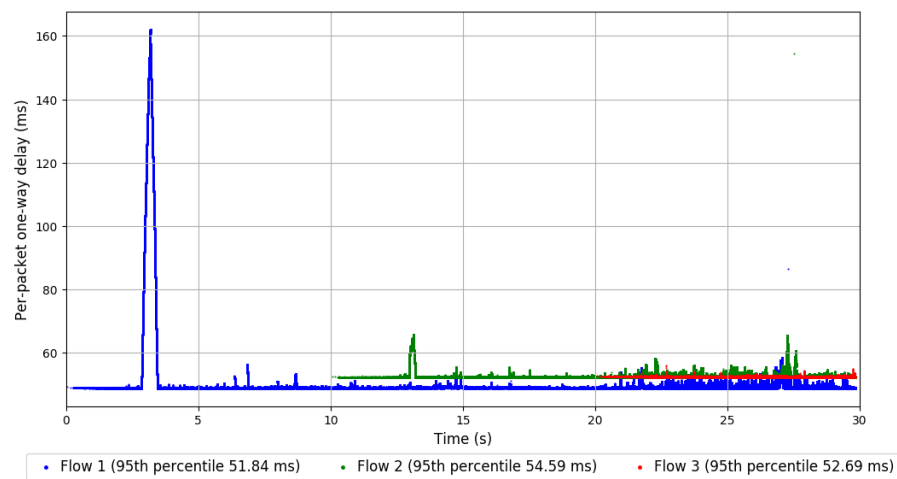
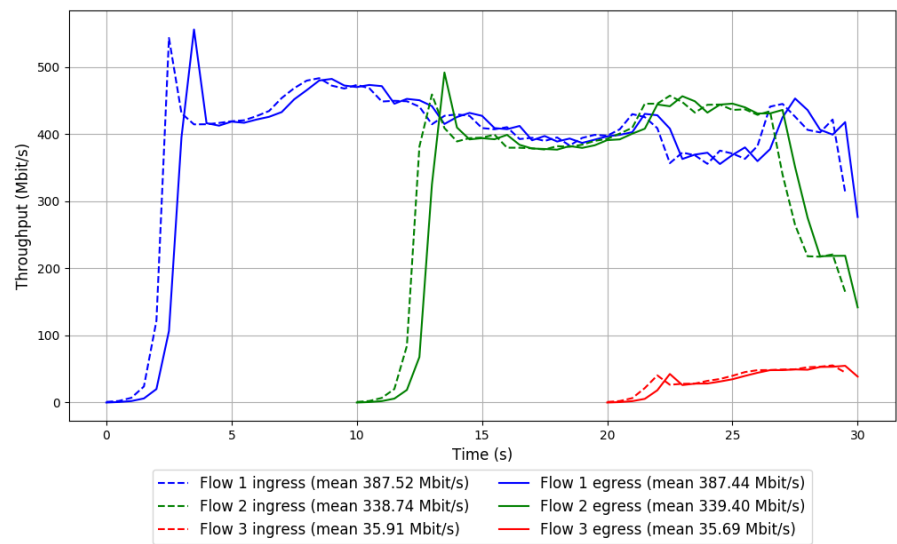
-- Flow 3:

Average throughput: 35.69 Mbit/s

95th percentile per-packet one-way delay: 52.686 ms

Loss rate: 1.73%

Run 10: Report of PCC-Vivace — Data Link

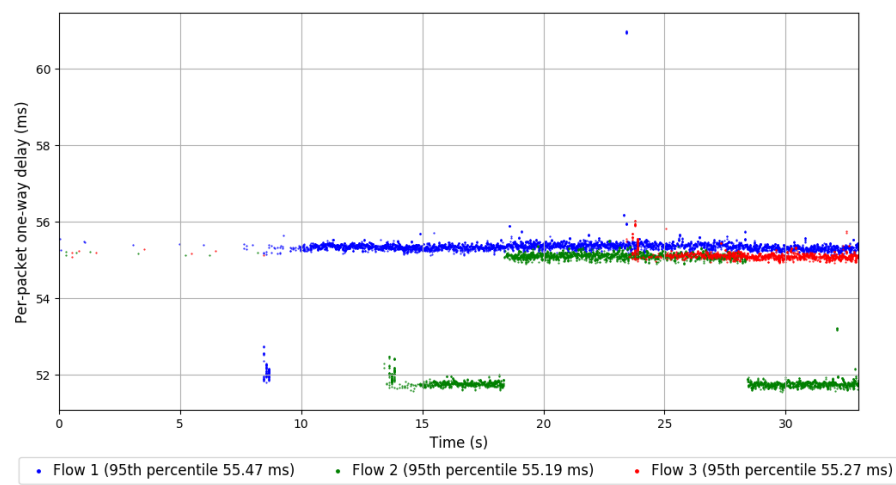
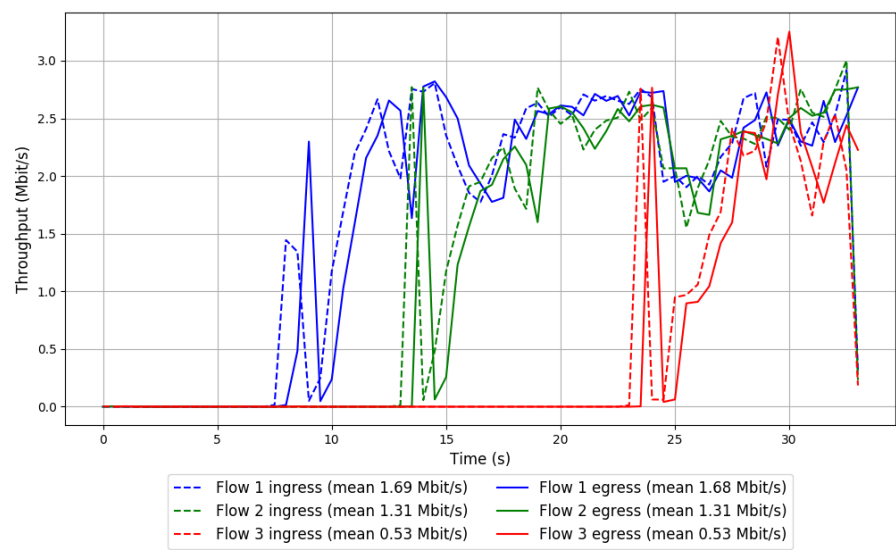


```
Run 1: Statistics of WebRTC media

Start at: 2018-06-20 21:51:17
End at: 2018-06-20 21:51:47
Local clock offset: -0.106 ms
Remote clock offset: -1.281 ms

# Below is generated by plot.py at 2018-06-21 04:14:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.50 Mbit/s
95th percentile per-packet one-way delay: 55.444 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 1.68 Mbit/s
95th percentile per-packet one-way delay: 55.474 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 55.194 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 55.273 ms
Loss rate: 1.18%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-06-20 22:14:26

End at: 2018-06-20 22:14:56

Local clock offset: -0.139 ms

Remote clock offset: 0.168 ms

Below is generated by plot.py at 2018-06-21 04:14:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: 53.764 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 53.808 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 50.766 ms

Loss rate: 0.48%

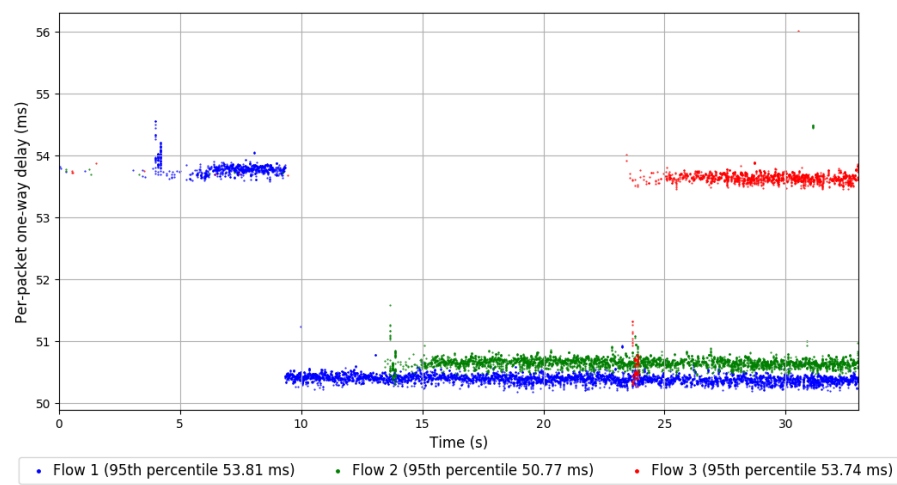
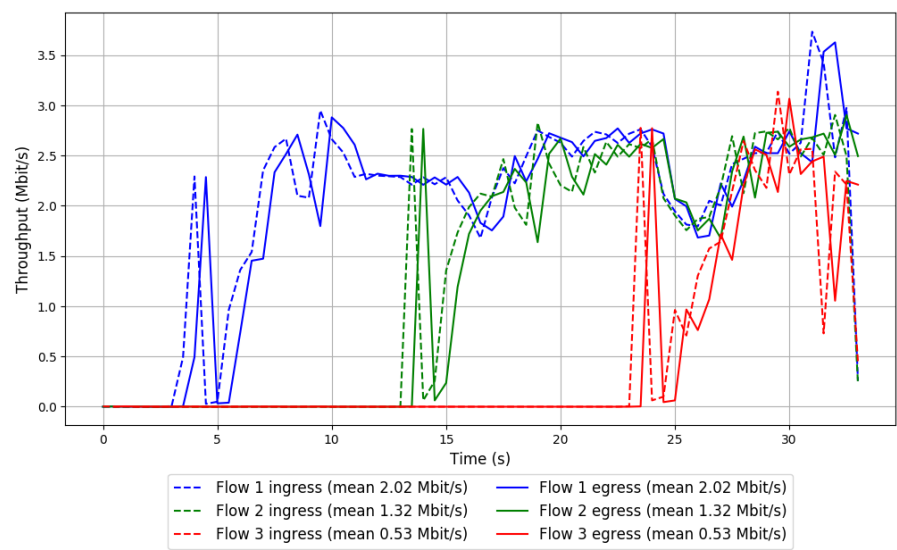
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 53.743 ms

Loss rate: 1.92%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-06-20 22:37:20

End at: 2018-06-20 22:37:50

Local clock offset: -0.073 ms

Remote clock offset: 0.54 ms

Below is generated by plot.py at 2018-06-21 04:14:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 53.403 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 50.343 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 53.463 ms

Loss rate: 0.74%

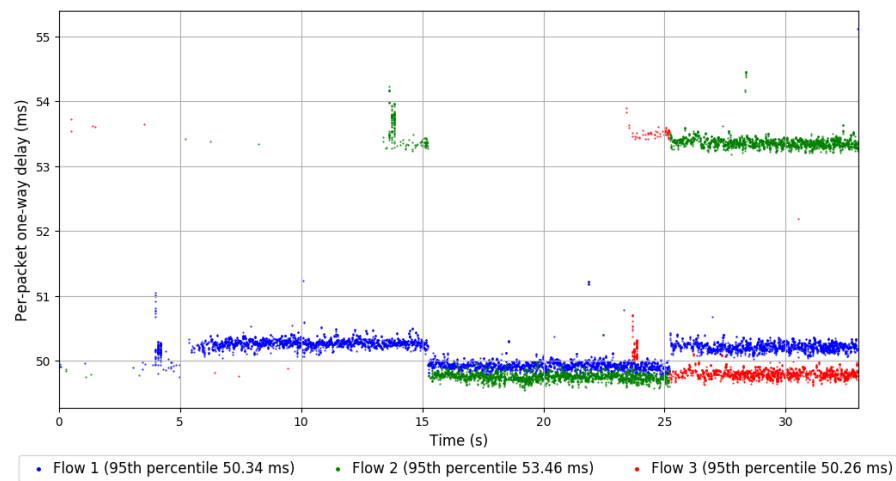
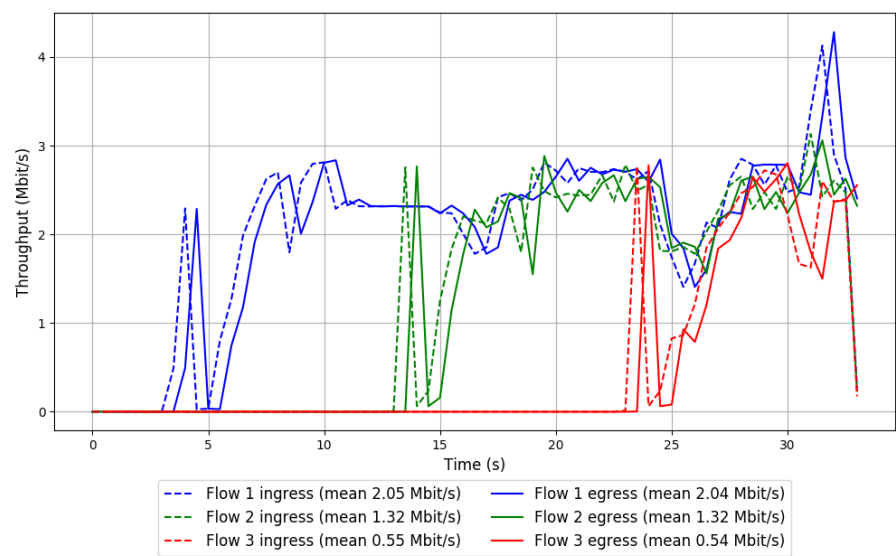
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 50.255 ms

Loss rate: 1.11%

Run 3: Report of WebRTC media — Data Link

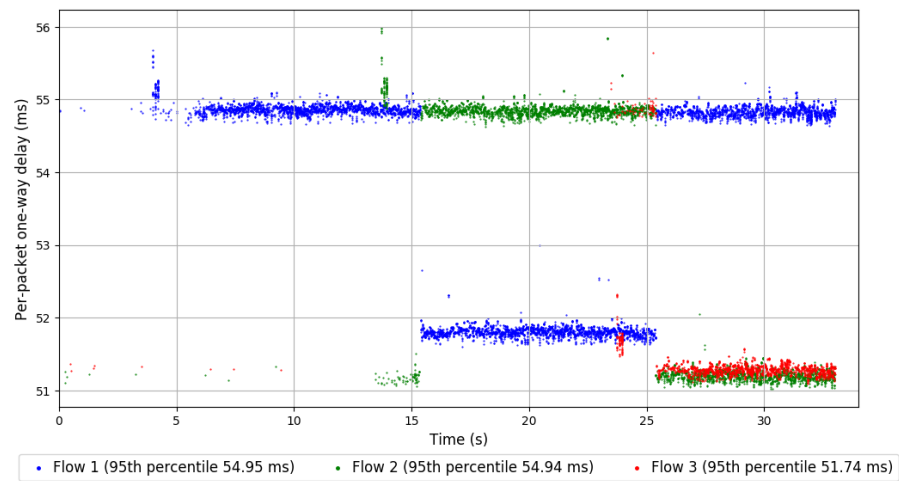
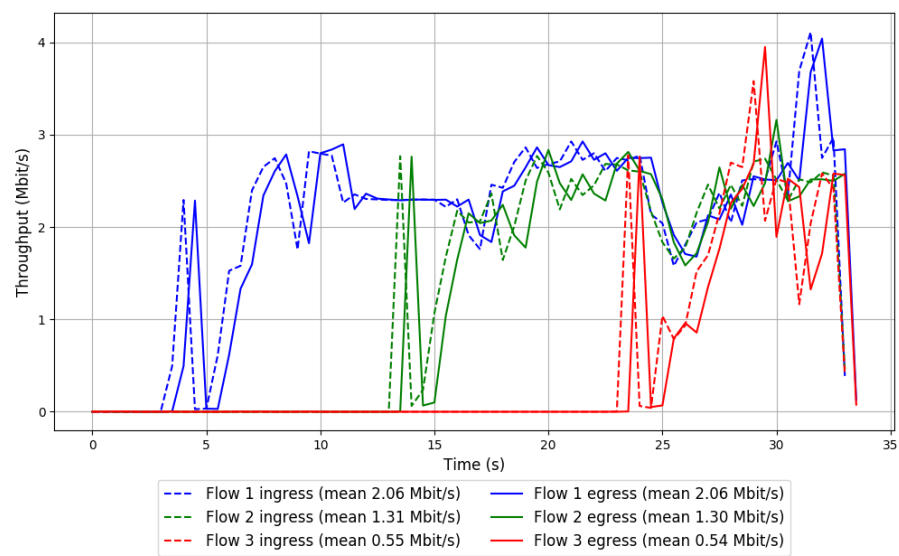


Run 4: Statistics of WebRTC media

Start at: 2018-06-20 23:00:10
End at: 2018-06-20 23:00:40
Local clock offset: 0.143 ms
Remote clock offset: -0.781 ms

Below is generated by plot.py at 2018-06-21 04:14:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 54.937 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 54.945 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 54.940 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 51.739 ms
Loss rate: 1.63%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-06-20 23:23:02

End at: 2018-06-20 23:23:32

Local clock offset: 0.16 ms

Remote clock offset: 0.217 ms

Below is generated by plot.py at 2018-06-21 04:14:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.88 Mbit/s

95th percentile per-packet one-way delay: 54.256 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 54.147 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 54.300 ms

Loss rate: 0.48%

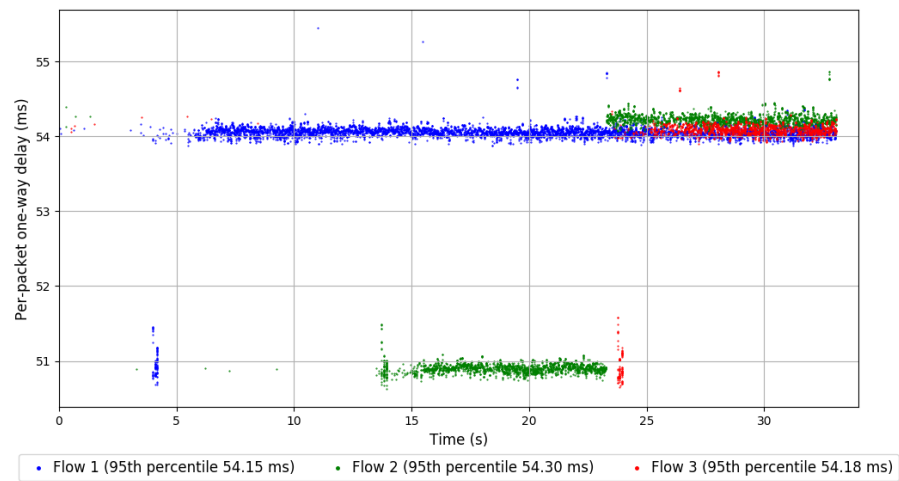
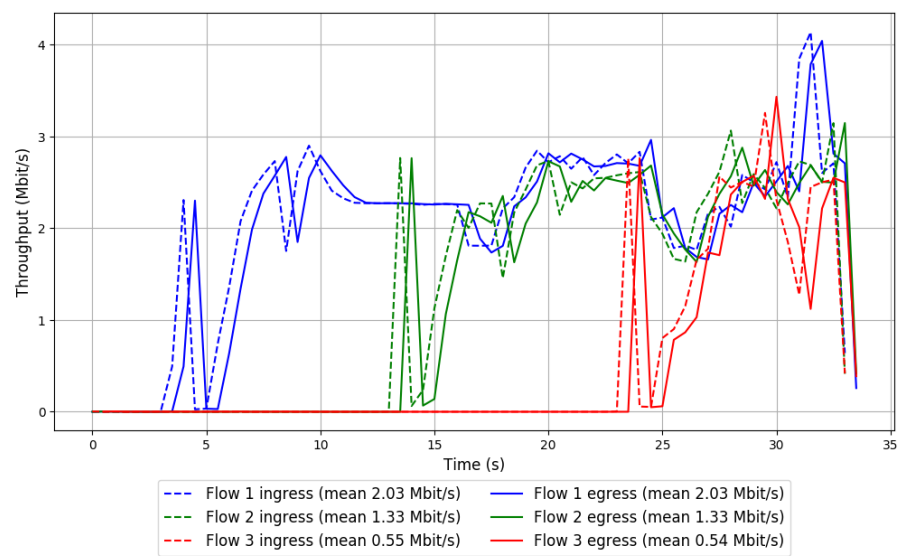
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 54.182 ms

Loss rate: 1.17%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-06-20 23:45:48

End at: 2018-06-20 23:46:18

Local clock offset: -0.001 ms

Remote clock offset: 0.318 ms

Below is generated by plot.py at 2018-06-21 04:14:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.88 Mbit/s

95th percentile per-packet one-way delay: 53.652 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 53.679 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 53.526 ms

Loss rate: 0.67%

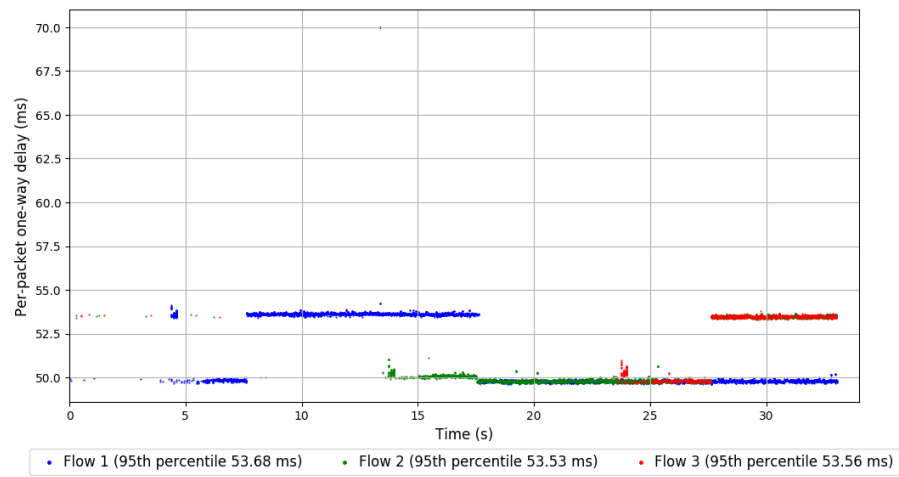
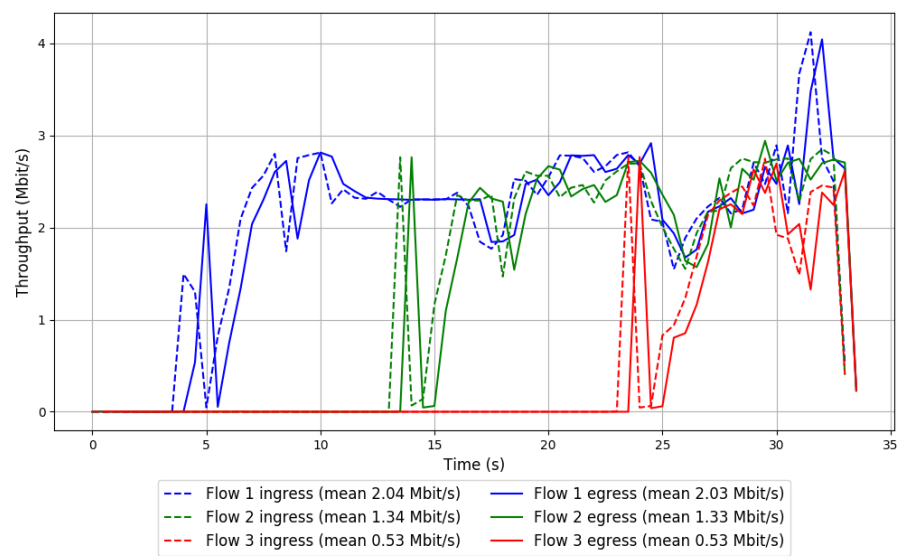
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 53.557 ms

Loss rate: 1.16%

Run 6: Report of WebRTC media — Data Link

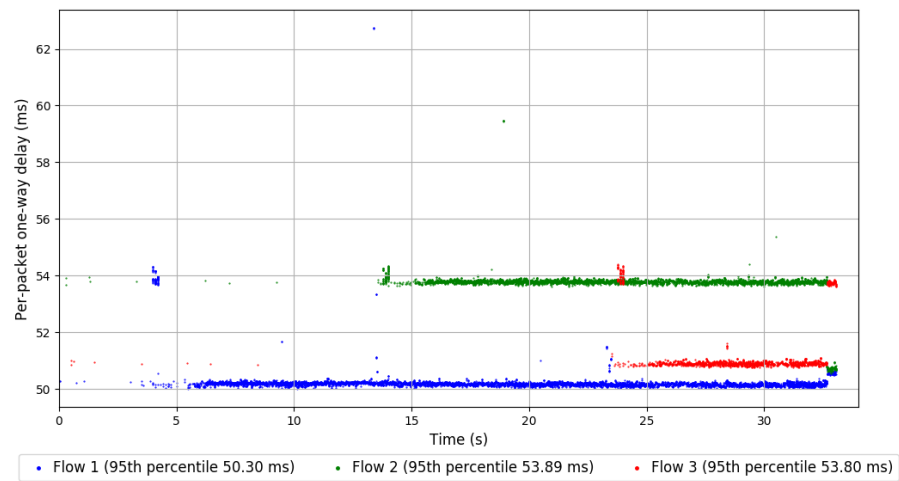
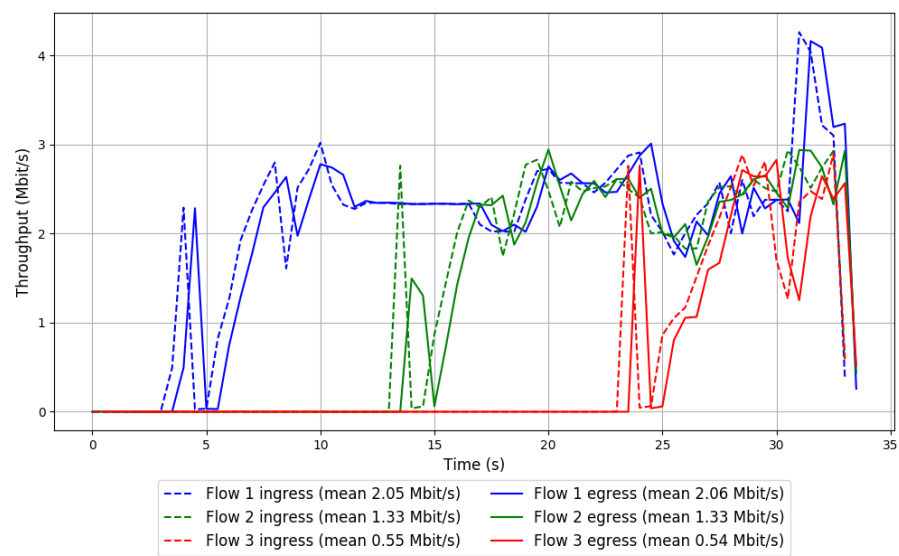


Run 7: Statistics of WebRTC media

Start at: 2018-06-21 00:08:53
End at: 2018-06-21 00:09:23
Local clock offset: 0.081 ms
Remote clock offset: -0.196 ms

Below is generated by plot.py at 2018-06-21 04:14:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 53.848 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 50.304 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 53.886 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 53.804 ms
Loss rate: 1.58%

Run 7: Report of WebRTC media — Data Link

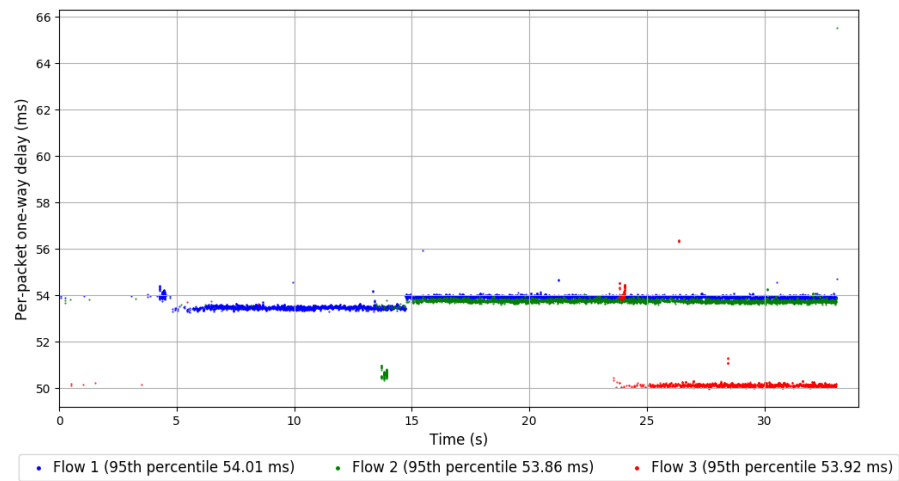
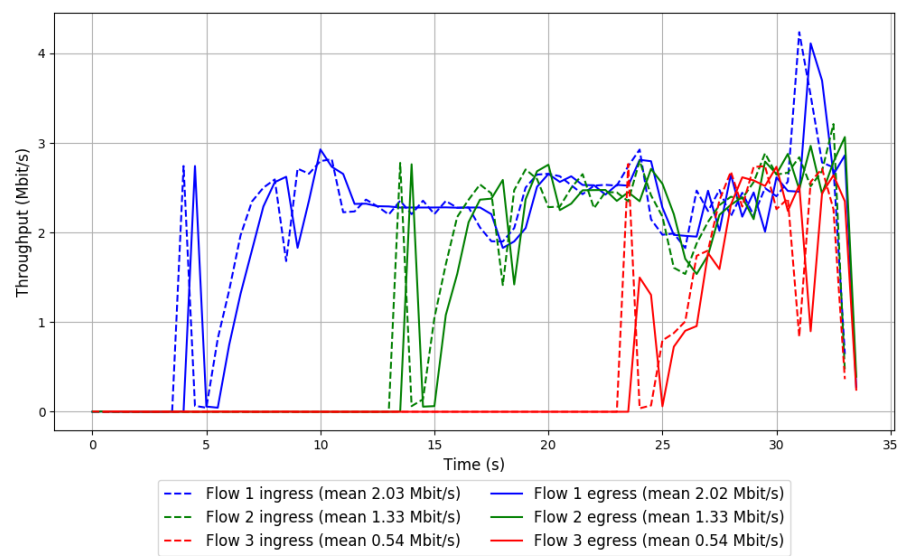


Run 8: Statistics of WebRTC media

Start at: 2018-06-21 00:32:21
End at: 2018-06-21 00:32:51
Local clock offset: 0.007 ms
Remote clock offset: -0.491 ms

Below is generated by plot.py at 2018-06-21 04:14:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 53.990 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 54.006 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 53.858 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 53.925 ms
Loss rate: 1.03%

Run 8: Report of WebRTC media — Data Link

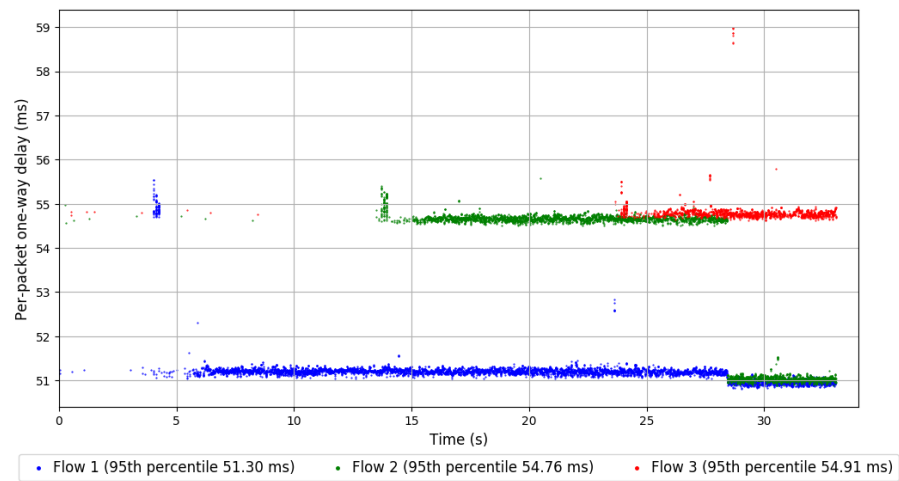
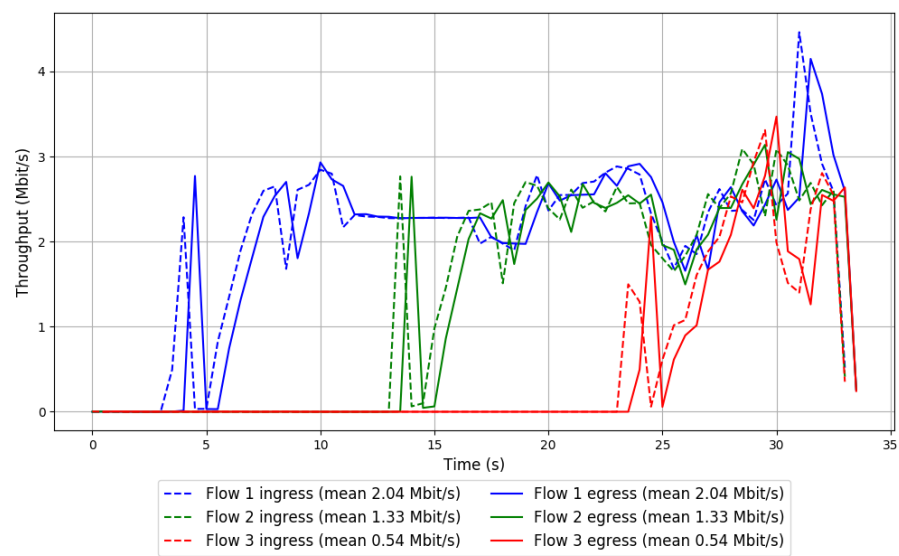


Run 9: Statistics of WebRTC media

Start at: 2018-06-21 00:55:17
End at: 2018-06-21 00:55:47
Local clock offset: -0.089 ms
Remote clock offset: -1.227 ms

Below is generated by plot.py at 2018-06-21 04:14:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.89 Mbit/s
95th percentile per-packet one-way delay: 54.817 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 51.296 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 54.755 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 54.910 ms
Loss rate: 1.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-21 01:18:30
End at: 2018-06-21 01:19:00
Local clock offset: -0.052 ms
Remote clock offset: -1.356 ms

Below is generated by plot.py at 2018-06-21 04:14:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.93 Mbit/s
95th percentile per-packet one-way delay: 55.037 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 51.457 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 55.078 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 54.520 ms
Loss rate: 1.62%

Run 10: Report of WebRTC media — Data Link

