

## Pantheon Report

Generated at 2019-01-03 11:43:15 (UTC).

Data path: Brazil on **p4p1** (*remote*) → AWS Brazil 1 on **ens5** (*local*).

Repeated the test of 19 congestion control schemes 5 times.

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

NTP offsets were measured against **gps.ntp.br** and have been applied to correct the timestamps in logs.

### System info:

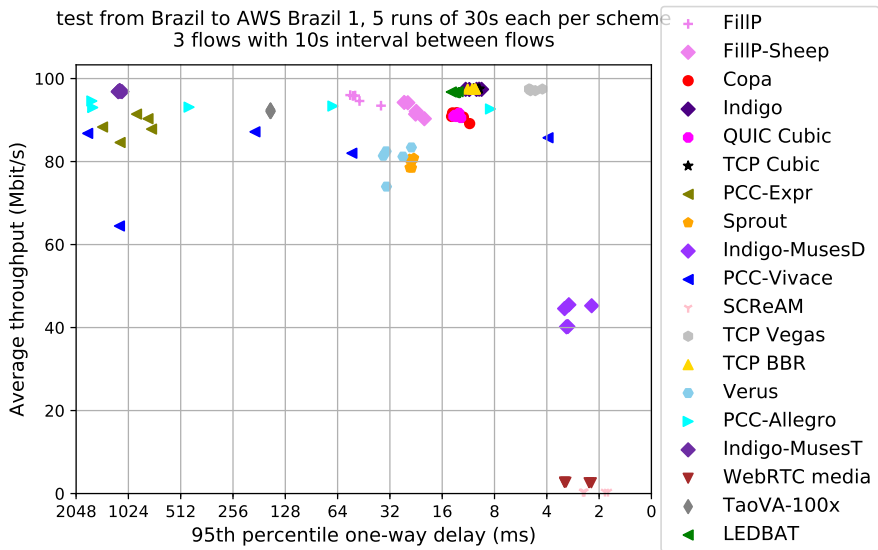
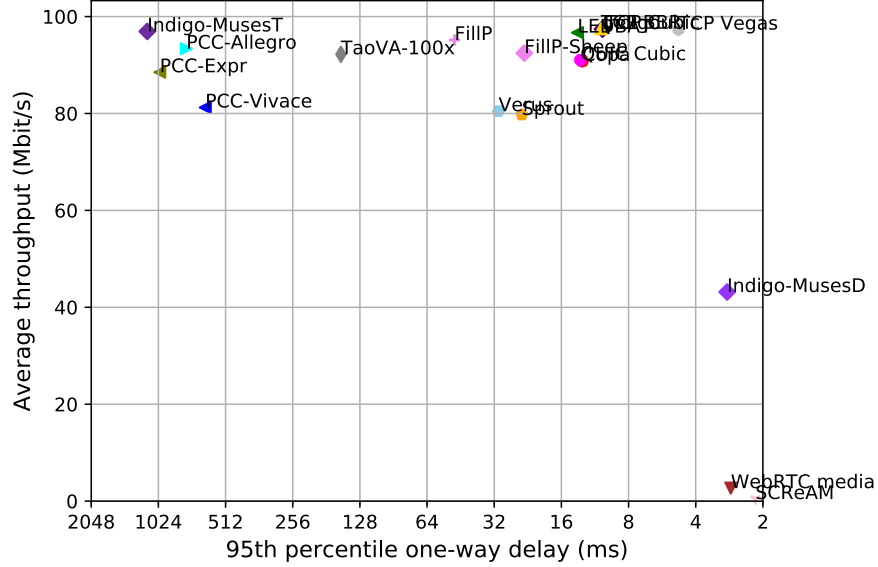
```
Linux 4.15.0-1029-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ c654af0b7d59d4ef4b914cfac404e1fc2e96dc68
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 65ac1b19bbefed0c6349ae986009b4fa8643c40a
third_party/muses-refactored @ 31f8f0ba8ef8b1da76c2bc0cd0a7850c33ff64fb
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
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-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
```

```
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from Brazil to AWS Brazil 1, 5 runs of 30s each per scheme  
 3 flows with 10s interval between flows (mean of all runs by scheme)



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	5	59.28	40.92	32.97	10.23	10.79	12.05	0.30	0.59	1.21
Copa	5	54.31	39.42	30.93	12.17	12.84	15.13	0.05	0.09	0.16
TCP Cubic	5	59.61	40.64	32.49	10.14	10.05	10.26	0.09	0.15	0.24
FillP	5	57.41	41.17	31.16	33.86	54.76	41.47	0.19	2.95	1.02
FillP-Sheep	5	56.76	39.73	27.91	20.42	24.75	36.46	0.03	0.04	0.10
Indigo	5	59.68	40.67	32.46	9.49	10.88	9.08	0.04	1.00	0.28
Indigo-MusesD	5	22.20	20.29	22.51	2.78	2.90	3.16	0.01	0.01	0.03
Indigo-MusesT	5	60.37	41.12	32.38	1125.52	1156.10	1261.61	26.64	41.03	41.74
LEDBAT	5	58.94	40.51	32.46	13.19	13.94	13.49	0.13	0.24	0.37
PCC-Allegro	5	67.98	29.06	18.44	908.64	474.81	10.91	6.08	4.46	0.09
PCC-Expr	5	57.12	36.09	22.38	801.69	444.02	140.94	20.04	5.03	1.77
QUIC Cubic	5	53.88	40.39	31.06	12.87	13.27	13.48	0.18	0.33	0.49
SCReAM	5	0.22	0.22	0.22	2.16	2.16	2.16	0.00	0.08	0.07
Sprout	5	43.22	38.88	32.18	22.86	23.95	25.44	0.09	0.11	0.31
TaoVA-100x	5	55.66	38.97	31.84	154.72	156.07	156.11	0.52	1.12	2.60
TCP Vegas	5	52.59	49.26	35.80	3.61	4.59	5.22	0.01	0.02	0.05
Verus	5	45.74	37.75	28.94	25.91	30.29	135.70	0.03	0.08	0.24
PCC-Vivace	5	48.79	35.97	25.82	7.29	701.96	48.98	0.11	1.78	0.36
WebRTC media	5	1.49	0.84	0.36	2.75	2.74	2.89	0.00	0.00	0.00



Run 1: Statistics of TCP BBR

Start at: 2019-01-03 09:57:55

End at: 2019-01-03 09:58:25

Local clock offset: -6.725 ms

Remote clock offset: 0.096 ms

# Below is generated by plot.py at 2019-01-03 11:30:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 11.423 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 59.24 Mbit/s

95th percentile per-packet one-way delay: 11.442 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 40.94 Mbit/s

95th percentile per-packet one-way delay: 10.860 ms

Loss rate: 0.53%

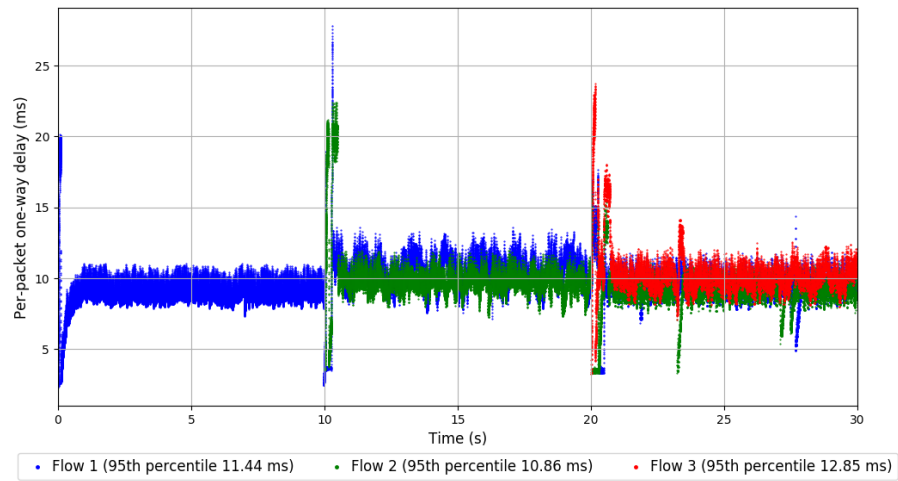
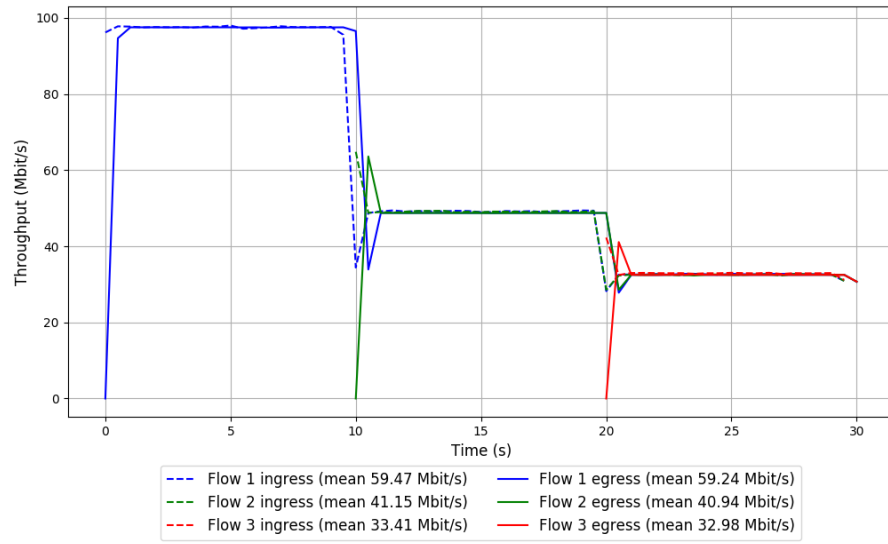
-- Flow 3:

Average throughput: 32.98 Mbit/s

95th percentile per-packet one-way delay: 12.847 ms

Loss rate: 1.34%

## Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-01-03 10:19:52

End at: 2019-01-03 10:20:23

Local clock offset: -7.416 ms

Remote clock offset: 0.462 ms

# Below is generated by plot.py at 2019-01-03 11:30:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.50 Mbit/s

95th percentile per-packet one-way delay: 10.748 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 59.32 Mbit/s

95th percentile per-packet one-way delay: 9.681 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 40.89 Mbit/s

95th percentile per-packet one-way delay: 11.186 ms

Loss rate: 0.61%

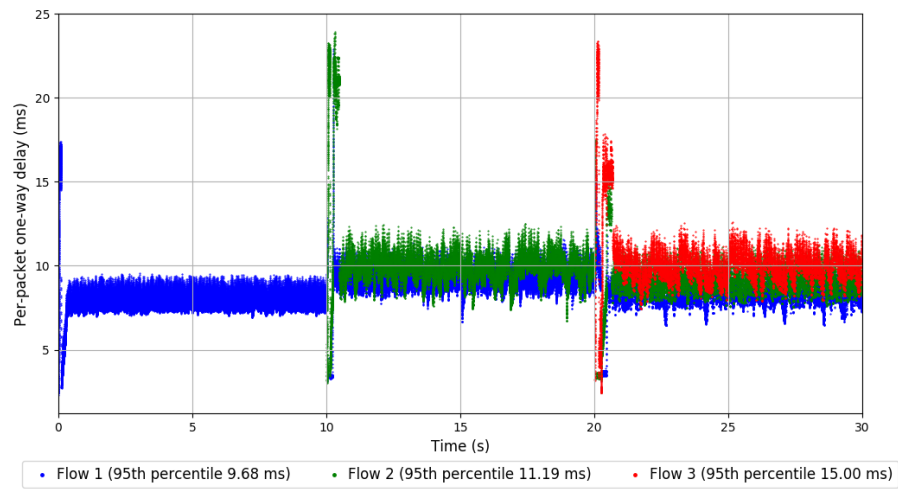
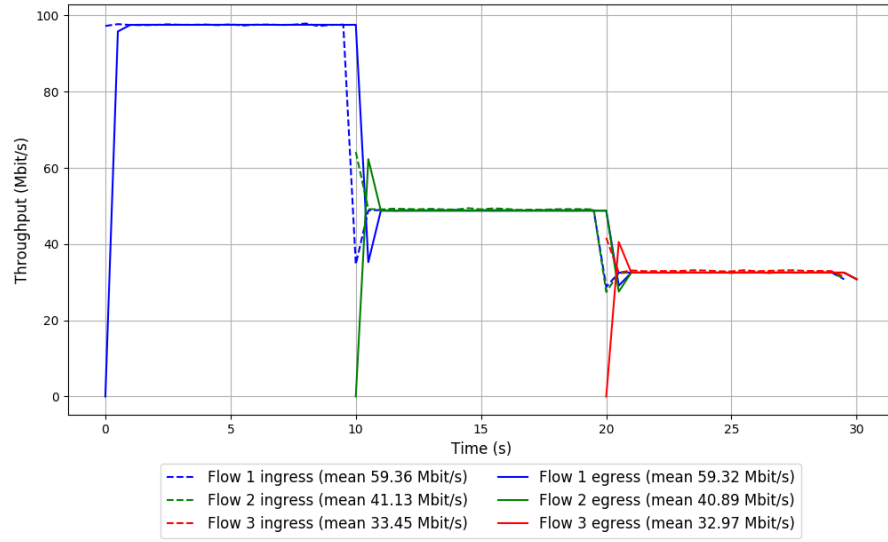
-- Flow 3:

Average throughput: 32.97 Mbit/s

95th percentile per-packet one-way delay: 14.996 ms

Loss rate: 1.47%

## Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-01-03 10:41:51

End at: 2019-01-03 10:42:21

Local clock offset: -7.05 ms

Remote clock offset: 0.768 ms

# Below is generated by plot.py at 2019-01-03 11:30:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.50 Mbit/s

95th percentile per-packet one-way delay: 10.300 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 59.30 Mbit/s

95th percentile per-packet one-way delay: 9.935 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 40.92 Mbit/s

95th percentile per-packet one-way delay: 10.328 ms

Loss rate: 0.33%

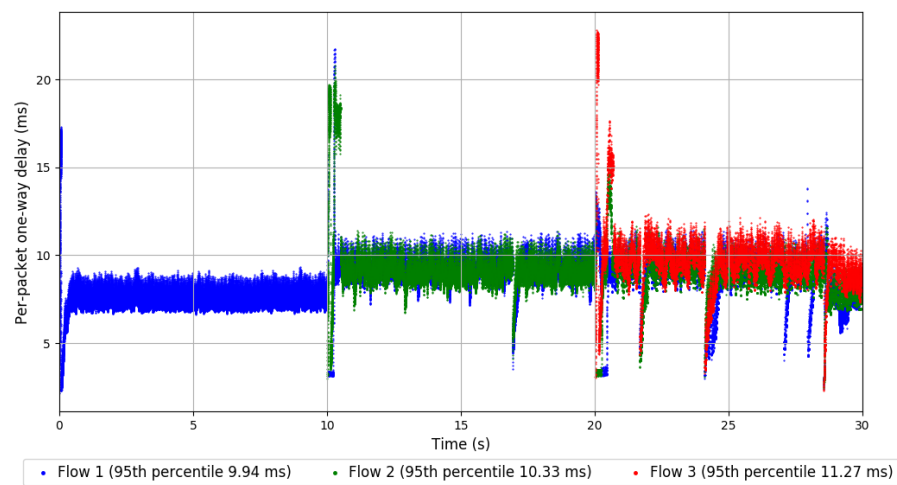
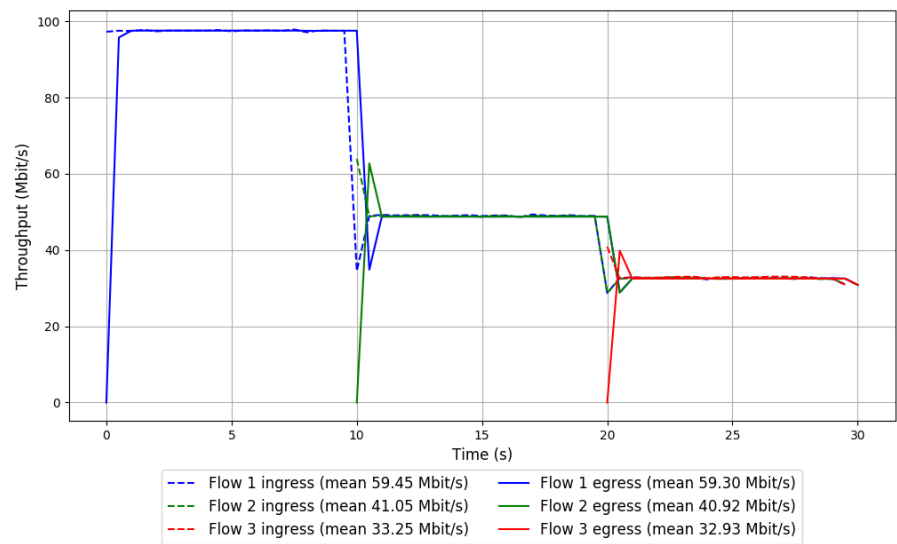
-- Flow 3:

Average throughput: 32.93 Mbit/s

95th percentile per-packet one-way delay: 11.272 ms

Loss rate: 1.02%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-01-03 11:03:50

End at: 2019-01-03 11:04:20

Local clock offset: -7.746 ms

Remote clock offset: 0.76 ms

# Below is generated by plot.py at 2019-01-03 11:30:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.49 Mbit/s

95th percentile per-packet one-way delay: 10.443 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 59.25 Mbit/s

95th percentile per-packet one-way delay: 10.140 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 40.94 Mbit/s

95th percentile per-packet one-way delay: 11.066 ms

Loss rate: 0.98%

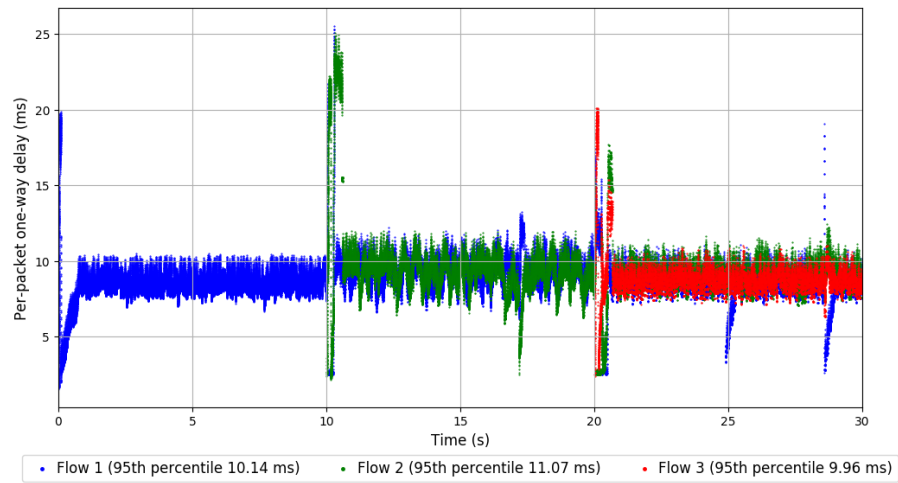
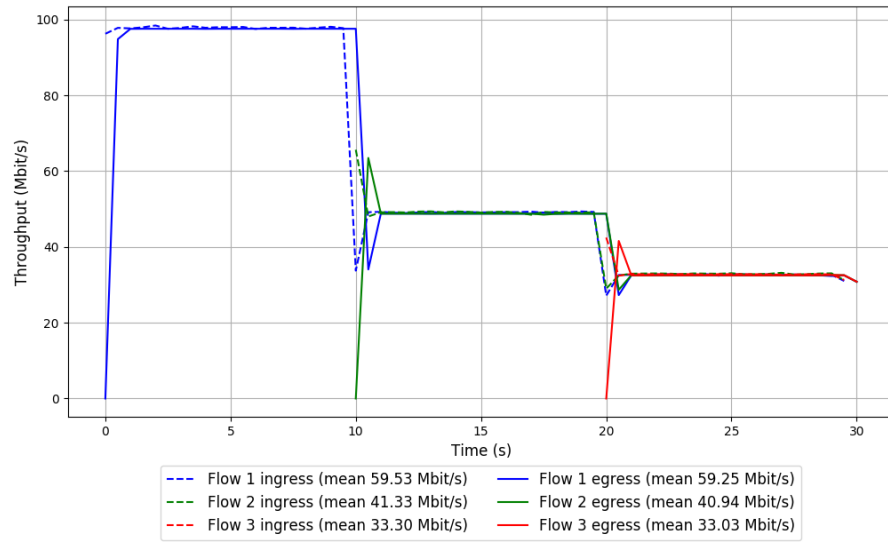
-- Flow 3:

Average throughput: 33.03 Mbit/s

95th percentile per-packet one-way delay: 9.960 ms

Loss rate: 0.86%

#### Run 4: Report of TCP BBR — Data Link





Run 5: Statistics of TCP BBR

Start at: 2019-01-03 11:25:48

End at: 2019-01-03 11:26:18

Local clock offset: -7.087 ms

Remote clock offset: 0.884 ms

# Below is generated by plot.py at 2019-01-03 11:30:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.50 Mbit/s

95th percentile per-packet one-way delay: 10.321 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 59.31 Mbit/s

95th percentile per-packet one-way delay: 9.961 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 40.93 Mbit/s

95th percentile per-packet one-way delay: 10.491 ms

Loss rate: 0.49%

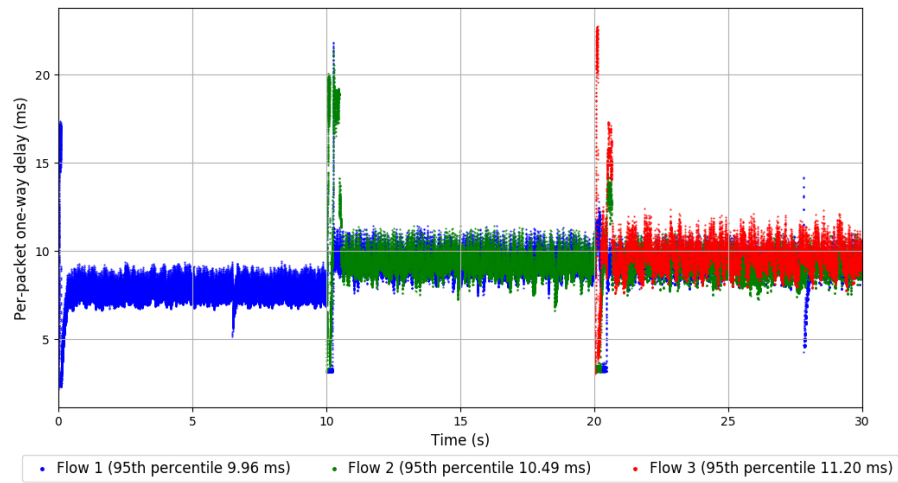
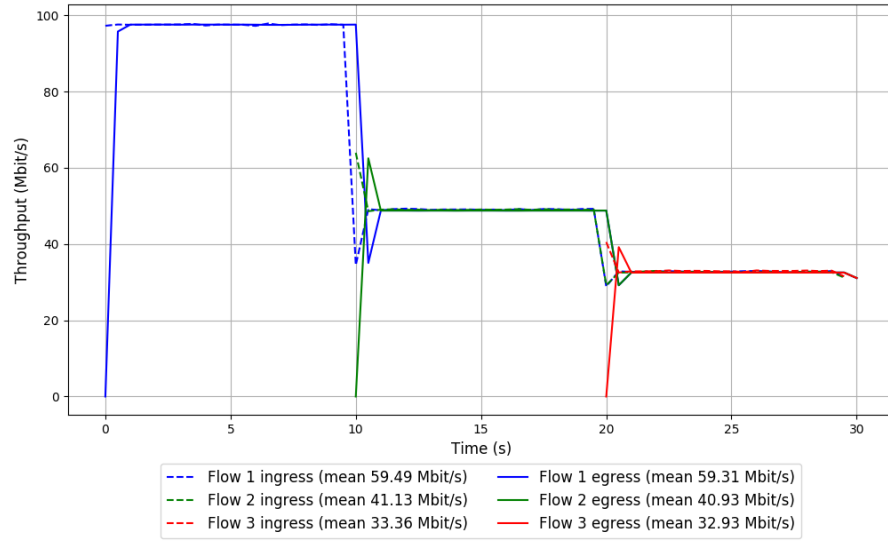
-- Flow 3:

Average throughput: 32.93 Mbit/s

95th percentile per-packet one-way delay: 11.197 ms

Loss rate: 1.34%

## Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-01-03 09:47:31

End at: 2019-01-03 09:48:01

Local clock offset: -6.95 ms

Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2019-01-03 11:31:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.15 Mbit/s

95th percentile per-packet one-way delay: 11.123 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 53.45 Mbit/s

95th percentile per-packet one-way delay: 10.759 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 38.67 Mbit/s

95th percentile per-packet one-way delay: 11.129 ms

Loss rate: 0.10%

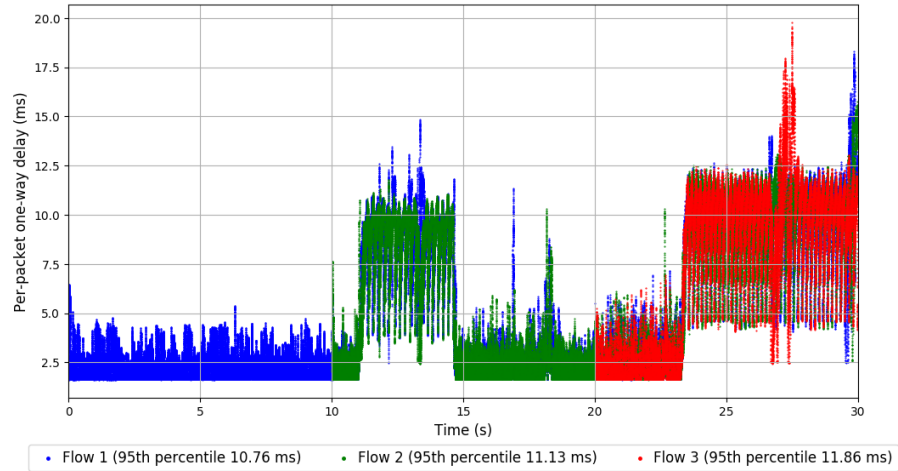
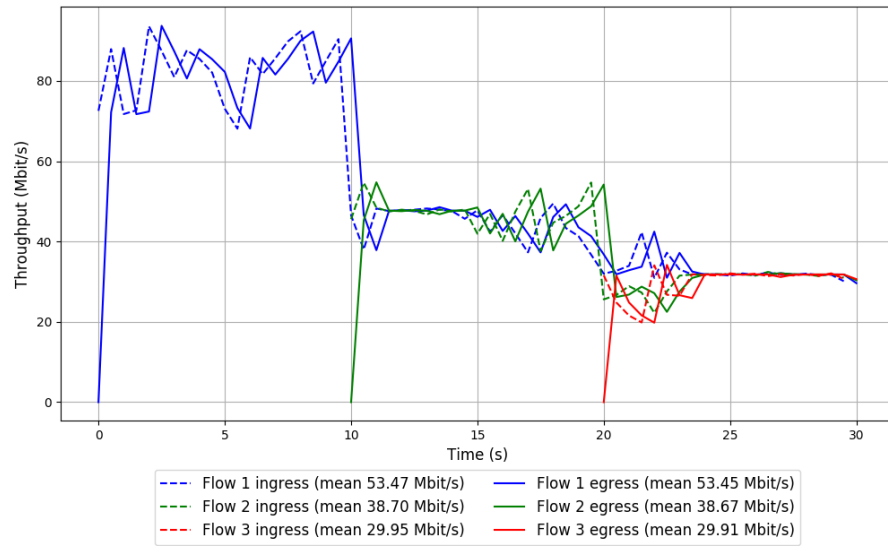
-- Flow 3:

Average throughput: 29.91 Mbit/s

95th percentile per-packet one-way delay: 11.856 ms

Loss rate: 0.17%

## Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-01-03 10:09:29

End at: 2019-01-03 10:09:59

Local clock offset: -7.842 ms

Remote clock offset: 0.323 ms

# Below is generated by plot.py at 2019-01-03 11:31:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.72 Mbit/s

95th percentile per-packet one-way delay: 12.082 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 53.72 Mbit/s

95th percentile per-packet one-way delay: 12.184 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 39.92 Mbit/s

95th percentile per-packet one-way delay: 12.053 ms

Loss rate: 0.11%

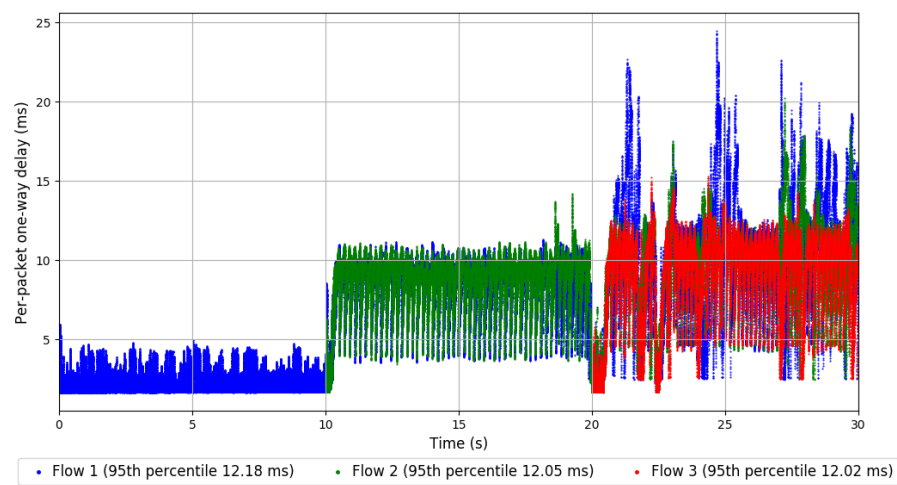
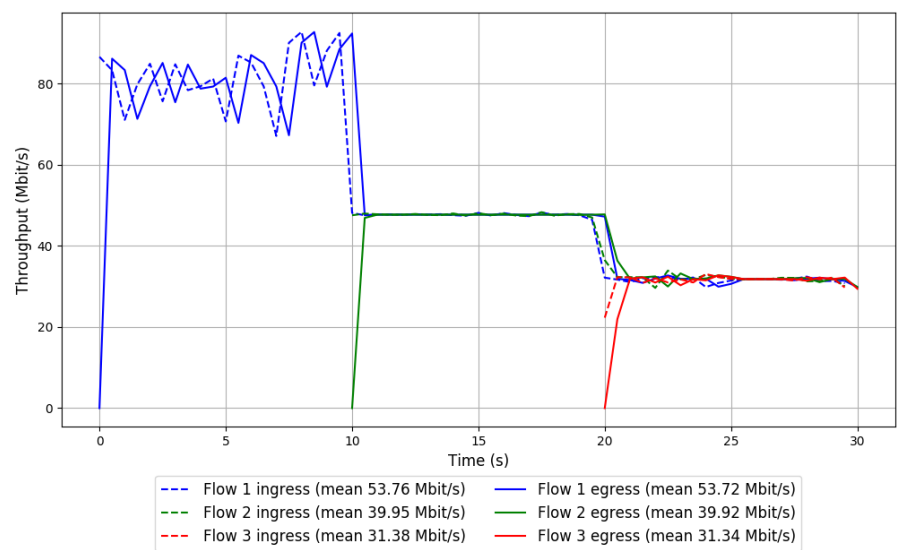
-- Flow 3:

Average throughput: 31.34 Mbit/s

95th percentile per-packet one-way delay: 12.021 ms

Loss rate: 0.17%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-01-03 10:31:27

End at: 2019-01-03 10:31:57

Local clock offset: -7.133 ms

Remote clock offset: 0.685 ms

# Below is generated by plot.py at 2019-01-03 11:31:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.88 Mbit/s

95th percentile per-packet one-way delay: 14.131 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 53.84 Mbit/s

95th percentile per-packet one-way delay: 13.065 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 39.35 Mbit/s

95th percentile per-packet one-way delay: 13.162 ms

Loss rate: 0.09%

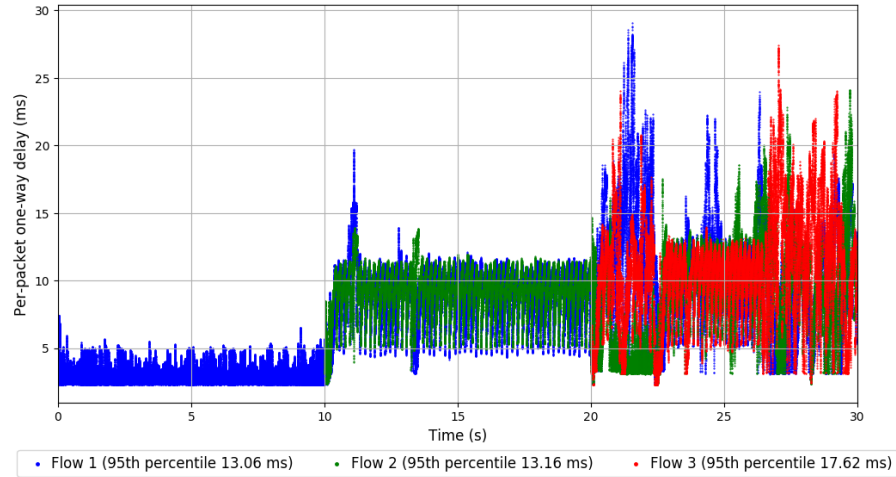
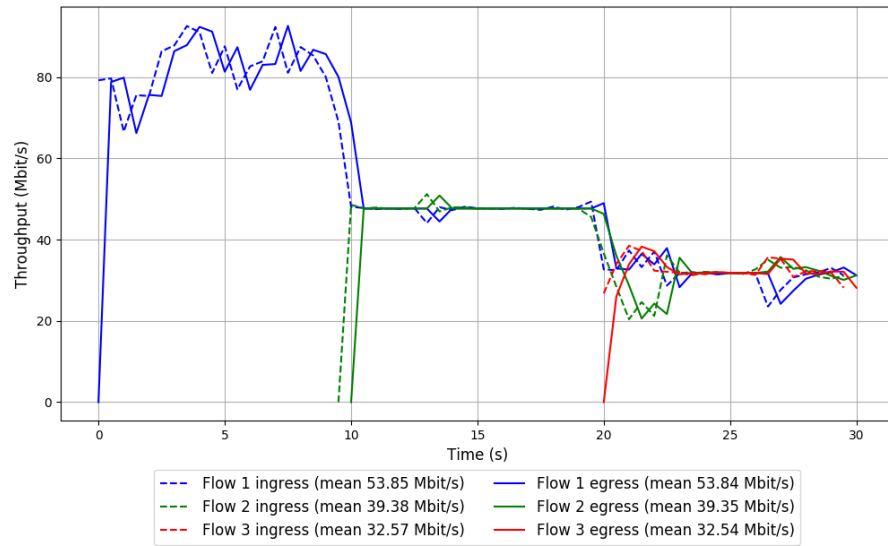
-- Flow 3:

Average throughput: 32.54 Mbit/s

95th percentile per-packet one-way delay: 17.625 ms

Loss rate: 0.13%

### Run 3: Report of Copa — Data Link





Run 4: Statistics of Copa

Start at: 2019-01-03 10:53:26

End at: 2019-01-03 10:53:56

Local clock offset: -7.094 ms

Remote clock offset: 0.697 ms

# Below is generated by plot.py at 2019-01-03 11:32:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.77 Mbit/s

95th percentile per-packet one-way delay: 13.200 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 55.21 Mbit/s

95th percentile per-packet one-way delay: 12.470 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 39.60 Mbit/s

95th percentile per-packet one-way delay: 13.033 ms

Loss rate: 0.07%

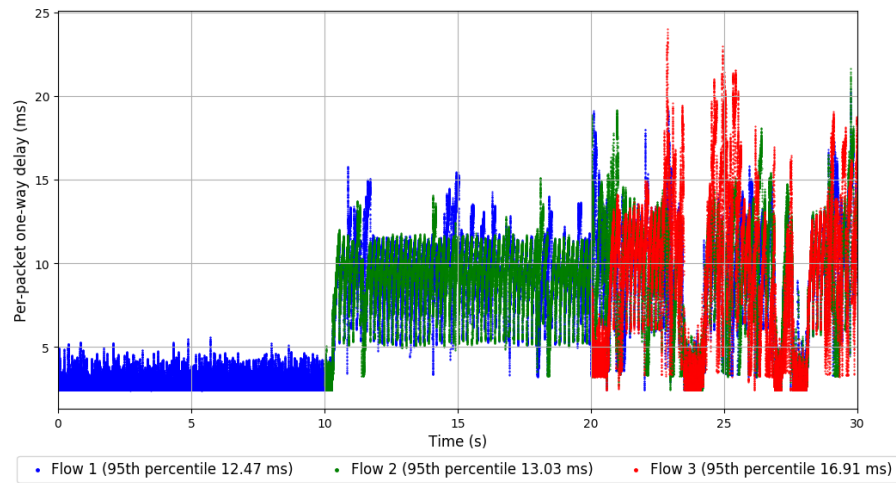
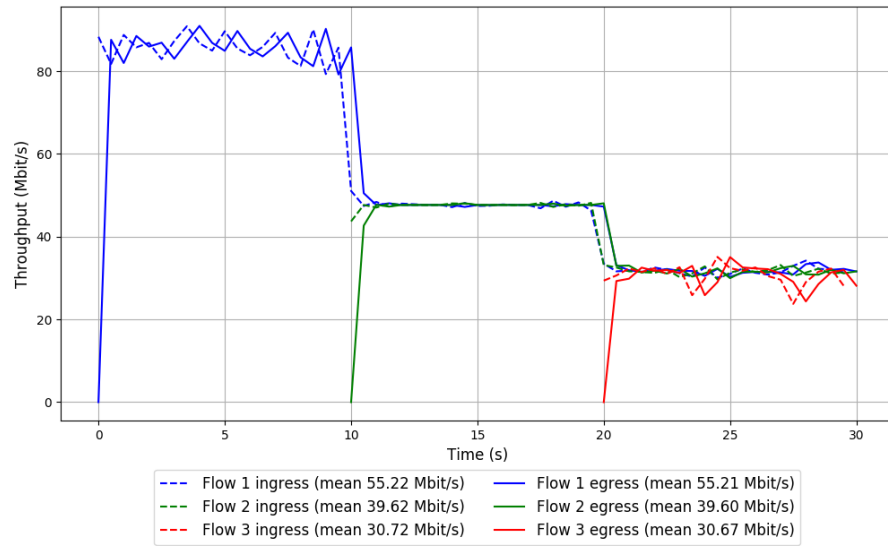
-- Flow 3:

Average throughput: 30.67 Mbit/s

95th percentile per-packet one-way delay: 16.911 ms

Loss rate: 0.18%

#### Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-01-03 11:15:25

End at: 2019-01-03 11:15:55

Local clock offset: -7.04 ms

Remote clock offset: 0.813 ms

# Below is generated by plot.py at 2019-01-03 11:32:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.73 Mbit/s

95th percentile per-packet one-way delay: 13.947 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 55.35 Mbit/s

95th percentile per-packet one-way delay: 12.367 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 39.56 Mbit/s

95th percentile per-packet one-way delay: 14.836 ms

Loss rate: 0.07%

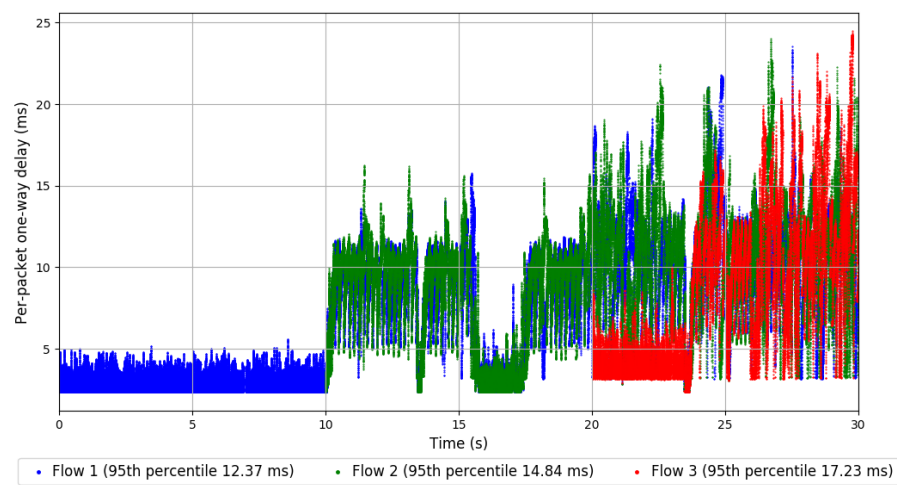
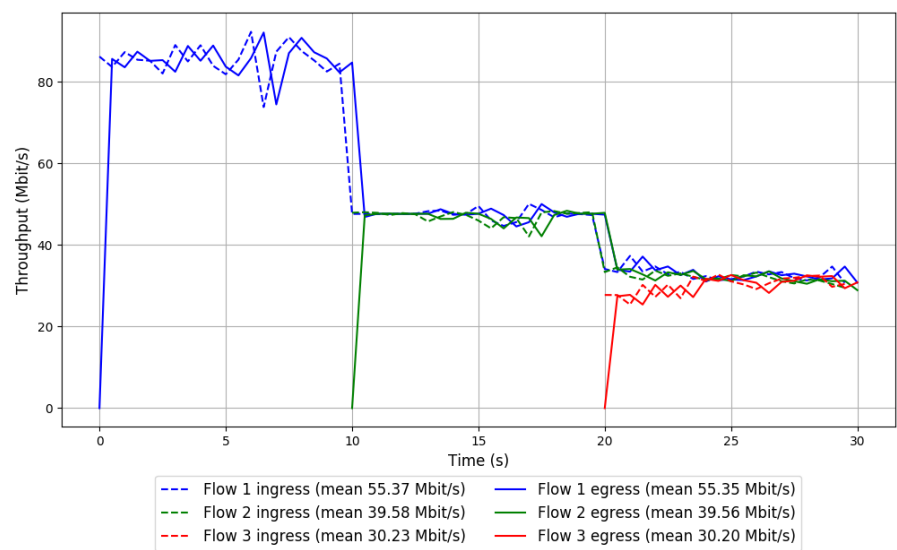
-- Flow 3:

Average throughput: 30.20 Mbit/s

95th percentile per-packet one-way delay: 17.235 ms

Loss rate: 0.15%

Run 5: Report of Copa — Data Link

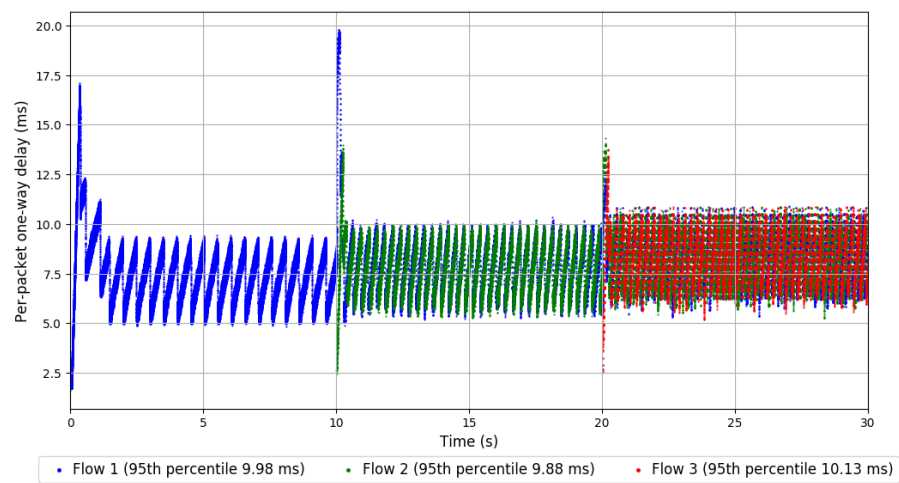
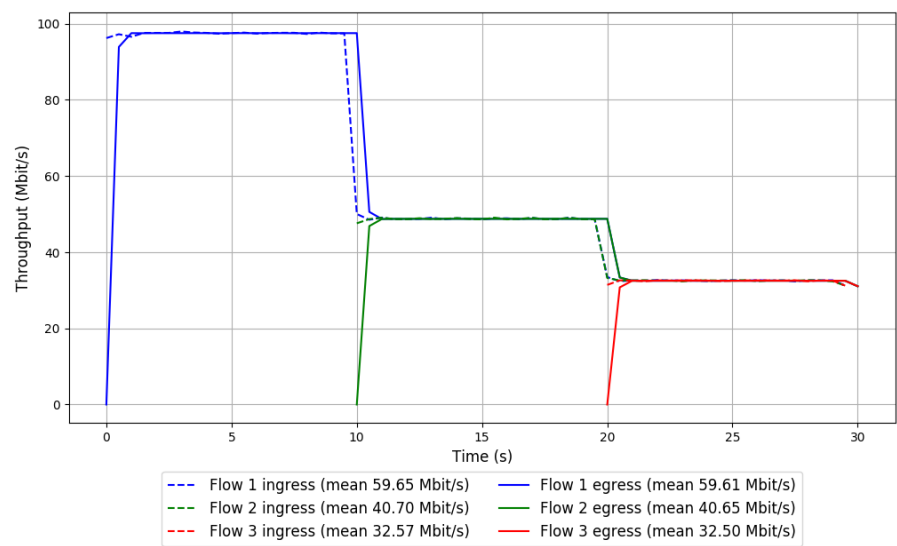


Run 1: Statistics of TCP Cubic

Start at: 2019-01-03 09:39:28  
End at: 2019-01-03 09:39:58  
Local clock offset: -6.376 ms  
Remote clock offset: -0.199 ms

# Below is generated by plot.py at 2019-01-03 11:32:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.47 Mbit/s  
95th percentile per-packet one-way delay: 10.000 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 59.61 Mbit/s  
95th percentile per-packet one-way delay: 9.977 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 40.65 Mbit/s  
95th percentile per-packet one-way delay: 9.881 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 32.50 Mbit/s  
95th percentile per-packet one-way delay: 10.127 ms  
Loss rate: 0.24%

Run 1: Report of TCP Cubic — Data Link

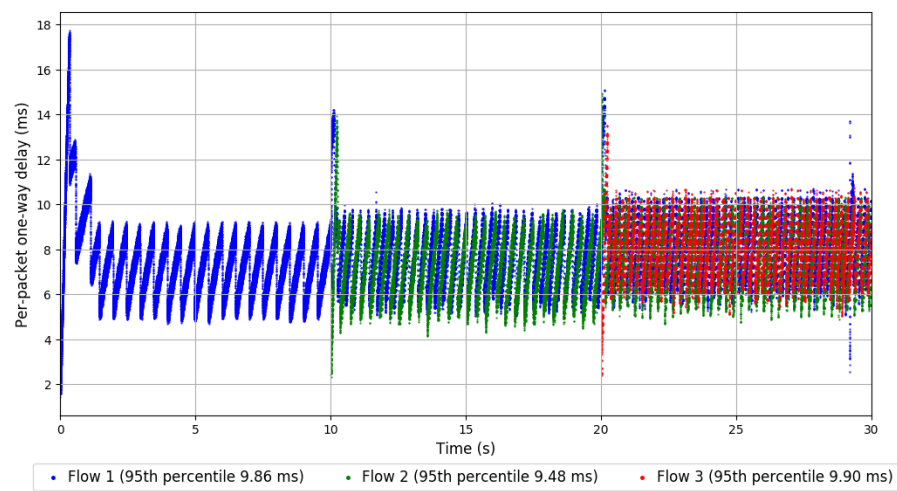
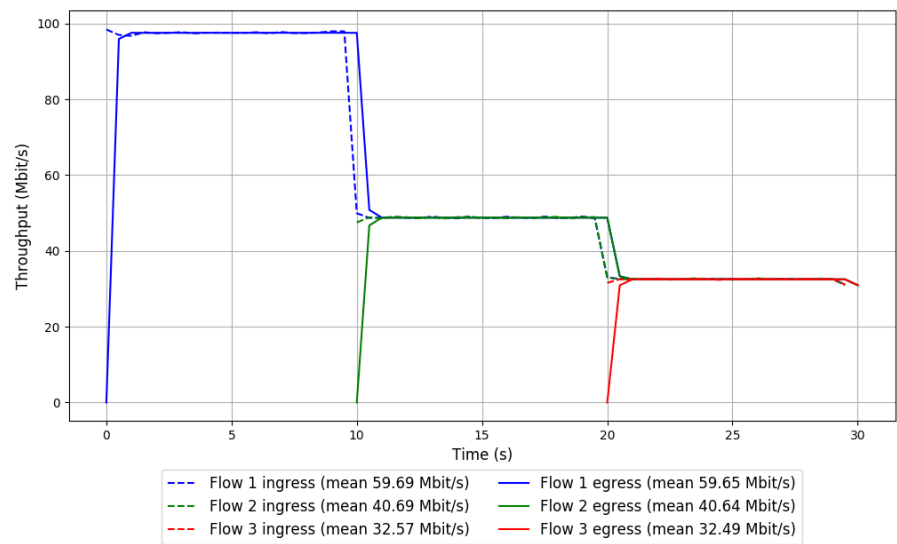


Run 2: Statistics of TCP Cubic

Start at: 2019-01-03 10:01:23  
End at: 2019-01-03 10:01:53  
Local clock offset: -7.627 ms  
Remote clock offset: 0.216 ms

# Below is generated by plot.py at 2019-01-03 11:32:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.51 Mbit/s  
95th percentile per-packet one-way delay: 9.772 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 59.65 Mbit/s  
95th percentile per-packet one-way delay: 9.858 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 40.64 Mbit/s  
95th percentile per-packet one-way delay: 9.482 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 32.49 Mbit/s  
95th percentile per-packet one-way delay: 9.905 ms  
Loss rate: 0.26%

Run 2: Report of TCP Cubic — Data Link





Run 3: Statistics of TCP Cubic

Start at: 2019-01-03 10:23:22

End at: 2019-01-03 10:23:52

Local clock offset: -8.273 ms

Remote clock offset: 0.516 ms

# Below is generated by plot.py at 2019-01-03 11:32:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 9.883 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 59.59 Mbit/s

95th percentile per-packet one-way delay: 9.657 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 40.64 Mbit/s

95th percentile per-packet one-way delay: 9.857 ms

Loss rate: 0.16%

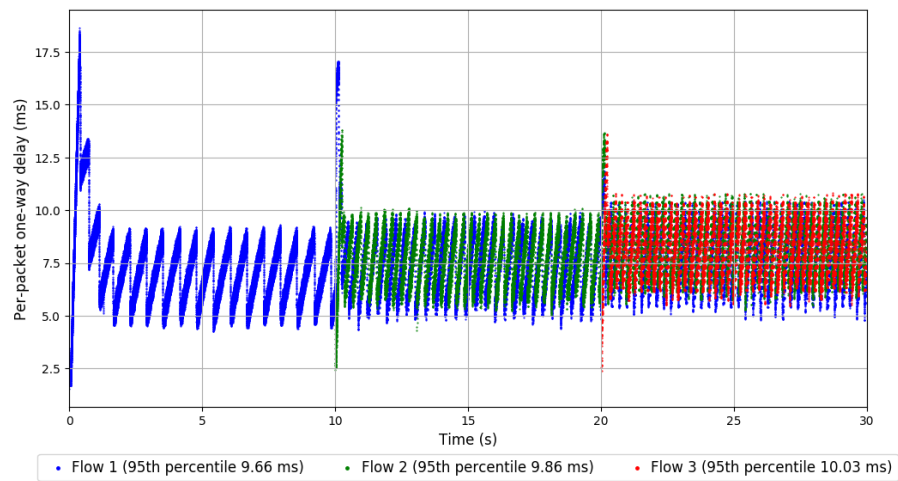
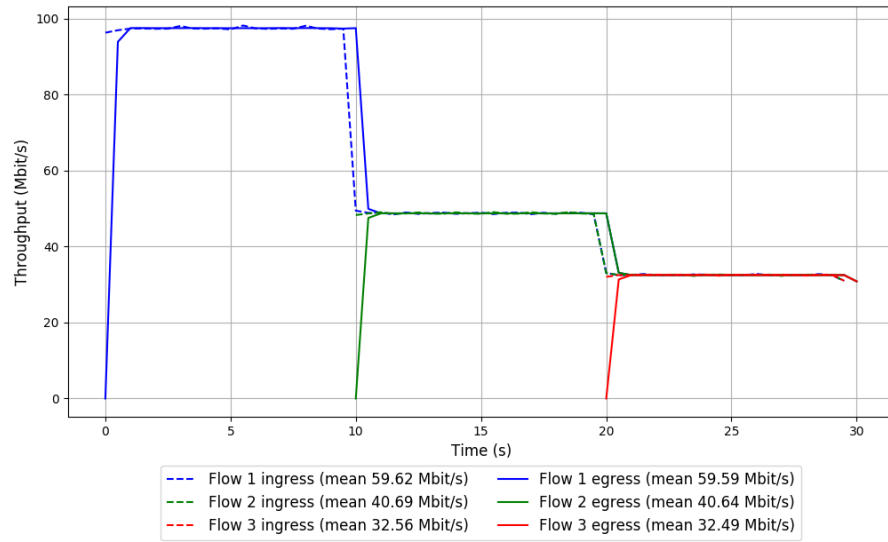
-- Flow 3:

Average throughput: 32.49 Mbit/s

95th percentile per-packet one-way delay: 10.031 ms

Loss rate: 0.26%

### Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-01-03 10:45:19

End at: 2019-01-03 10:45:49

Local clock offset: -7.057 ms

Remote clock offset: 0.699 ms

# Below is generated by plot.py at 2019-01-03 11:32:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 10.559 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 59.59 Mbit/s

95th percentile per-packet one-way delay: 10.664 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 40.64 Mbit/s

95th percentile per-packet one-way delay: 10.512 ms

Loss rate: 0.16%

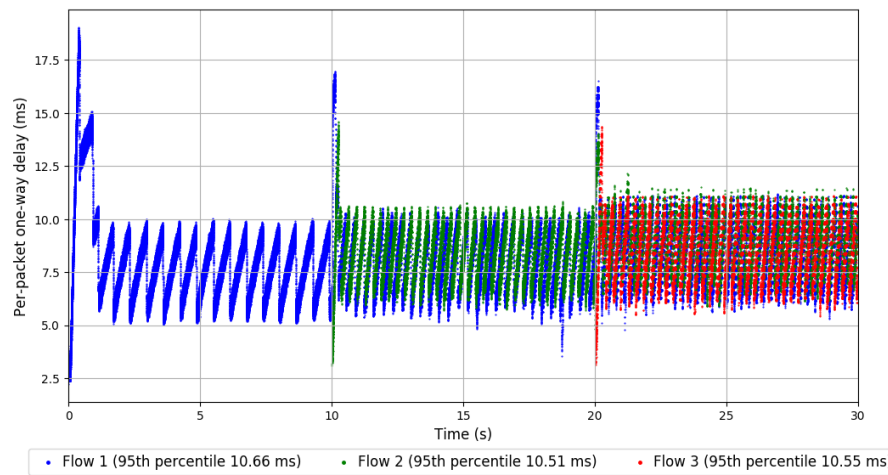
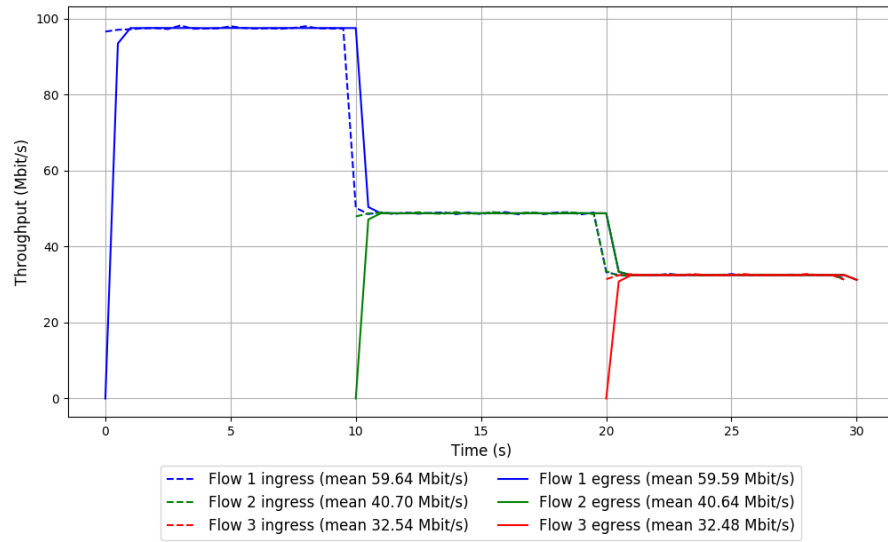
-- Flow 3:

Average throughput: 32.48 Mbit/s

95th percentile per-packet one-way delay: 10.554 ms

Loss rate: 0.21%

#### Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-01-03 11:07:19

End at: 2019-01-03 11:07:49

Local clock offset: -7.052 ms

Remote clock offset: 0.762 ms

# Below is generated by plot.py at 2019-01-03 11:32:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.50 Mbit/s

95th percentile per-packet one-way delay: 10.570 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 59.63 Mbit/s

95th percentile per-packet one-way delay: 10.550 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 40.65 Mbit/s

95th percentile per-packet one-way delay: 10.495 ms

Loss rate: 0.16%

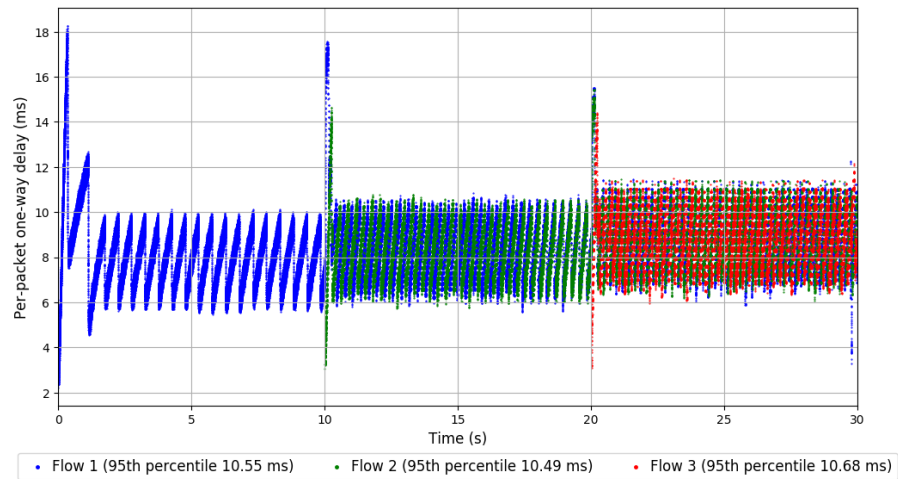
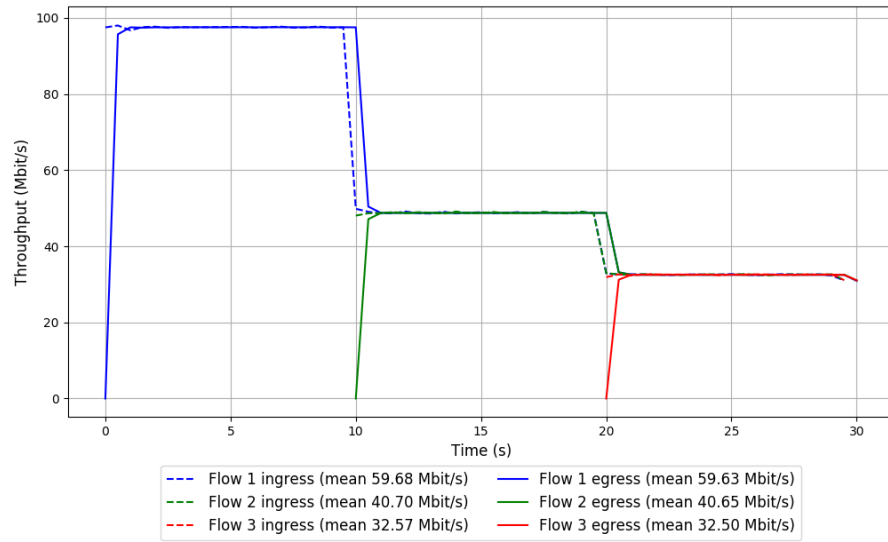
-- Flow 3:

Average throughput: 32.50 Mbit/s

95th percentile per-packet one-way delay: 10.680 ms

Loss rate: 0.25%

## Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-01-03 09:41:48

End at: 2019-01-03 09:42:18

Local clock offset: -6.579 ms

Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2019-01-03 11:33:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.60 Mbit/s

95th percentile per-packet one-way delay: 47.875 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 53.74 Mbit/s

95th percentile per-packet one-way delay: 32.551 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 46.16 Mbit/s

95th percentile per-packet one-way delay: 58.300 ms

Loss rate: 3.19%

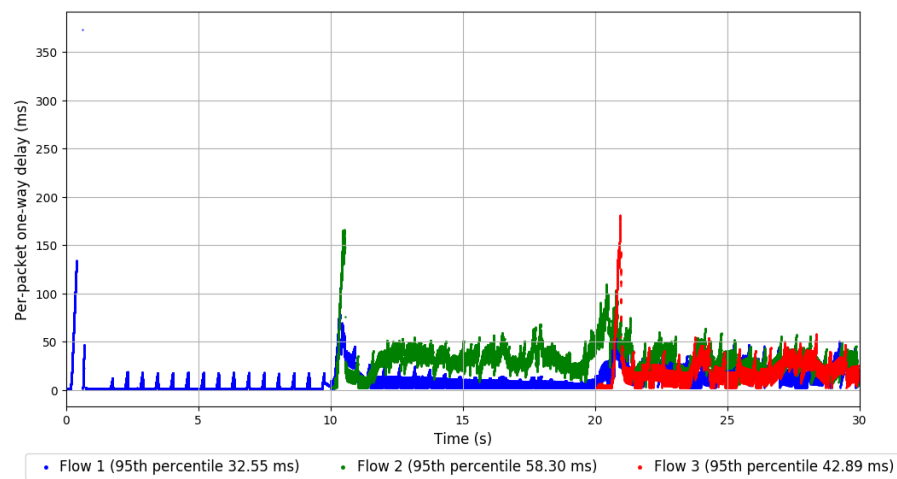
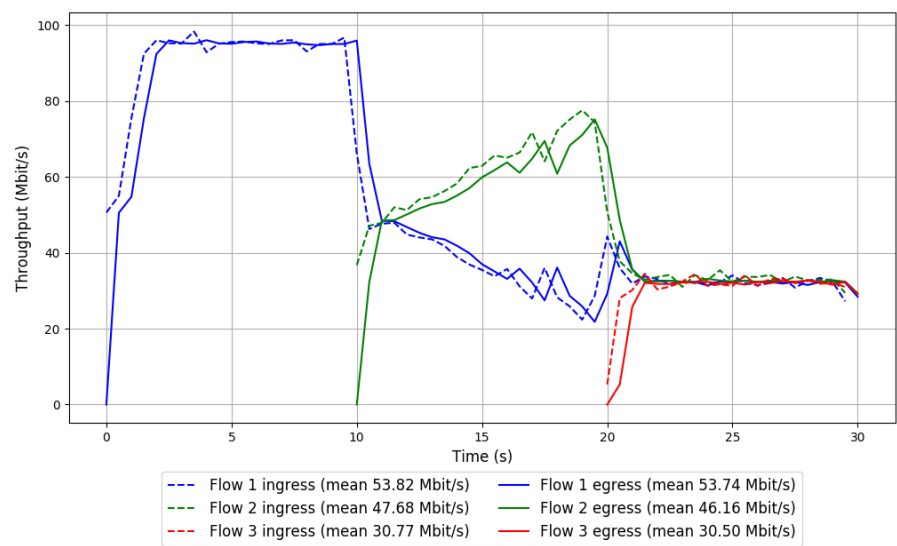
-- Flow 3:

Average throughput: 30.50 Mbit/s

95th percentile per-packet one-way delay: 42.893 ms

Loss rate: 0.87%

Run 1: Report of FillP — Data Link



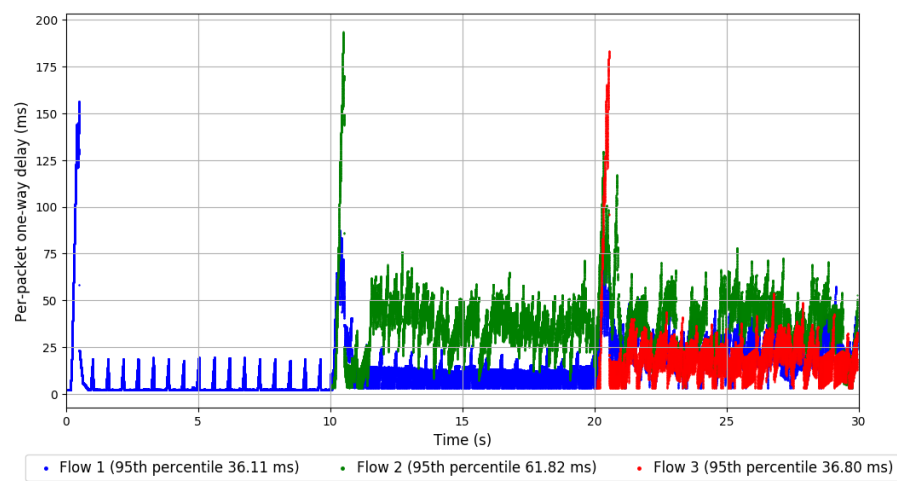
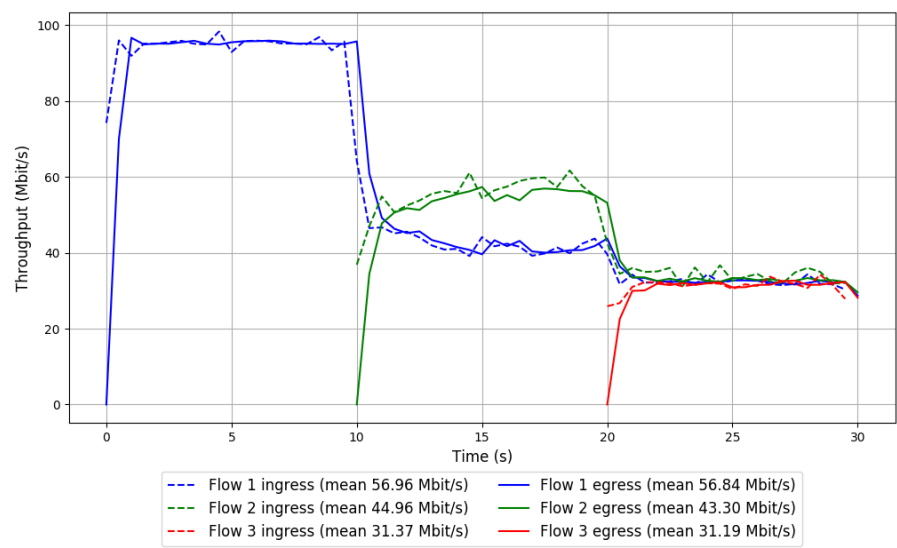


Run 2: Statistics of FillP

Start at: 2019-01-03 10:03:43  
End at: 2019-01-03 10:04:13  
Local clock offset: -6.939 ms  
Remote clock offset: 0.298 ms

# Below is generated by plot.py at 2019-01-03 11:33:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.02 Mbit/s  
95th percentile per-packet one-way delay: 54.177 ms  
Loss rate: 1.32%  
-- Flow 1:  
Average throughput: 56.84 Mbit/s  
95th percentile per-packet one-way delay: 36.106 ms  
Loss rate: 0.22%  
-- Flow 2:  
Average throughput: 43.30 Mbit/s  
95th percentile per-packet one-way delay: 61.818 ms  
Loss rate: 3.70%  
-- Flow 3:  
Average throughput: 31.19 Mbit/s  
95th percentile per-packet one-way delay: 36.795 ms  
Loss rate: 0.48%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-01-03 10:25:42

End at: 2019-01-03 10:26:12

Local clock offset: -7.514 ms

Remote clock offset: 0.595 ms

# Below is generated by plot.py at 2019-01-03 11:33:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.46 Mbit/s

95th percentile per-packet one-way delay: 36.009 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 62.56 Mbit/s

95th percentile per-packet one-way delay: 35.811 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 30.58 Mbit/s

95th percentile per-packet one-way delay: 34.514 ms

Loss rate: 0.25%

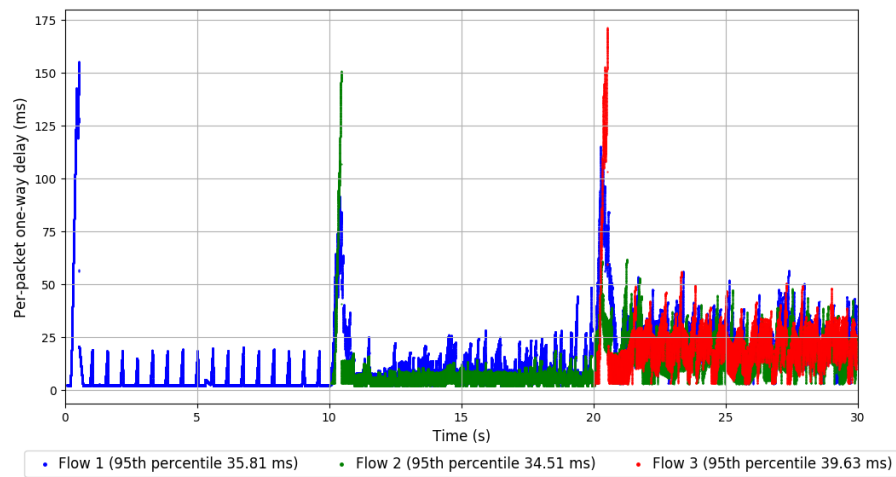
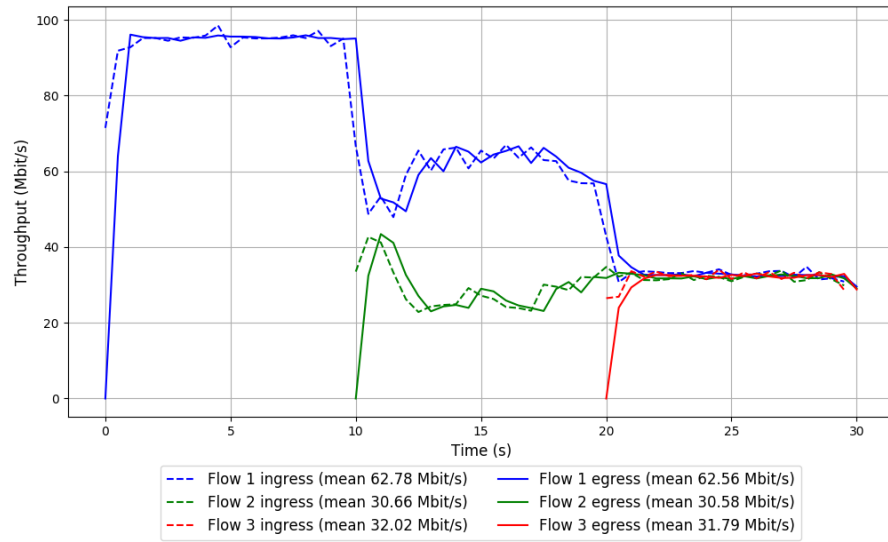
-- Flow 3:

Average throughput: 31.79 Mbit/s

95th percentile per-packet one-way delay: 39.626 ms

Loss rate: 0.76%

### Run 3: Report of FillP — Data Link

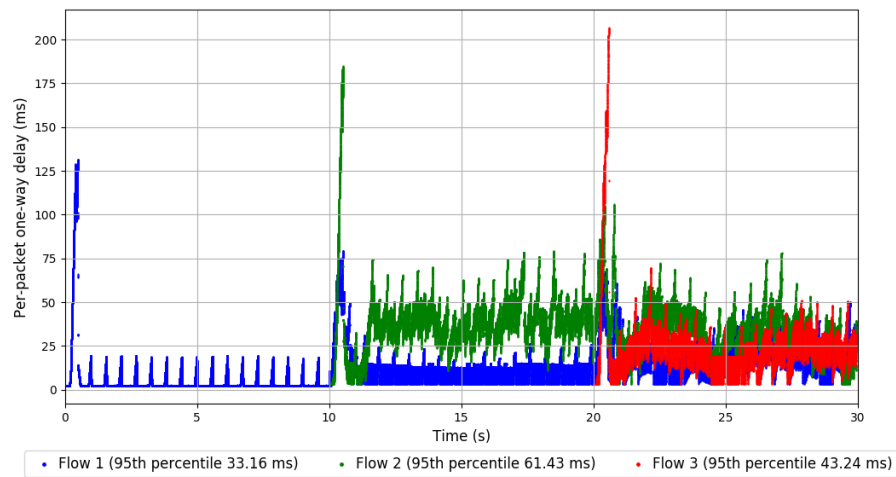
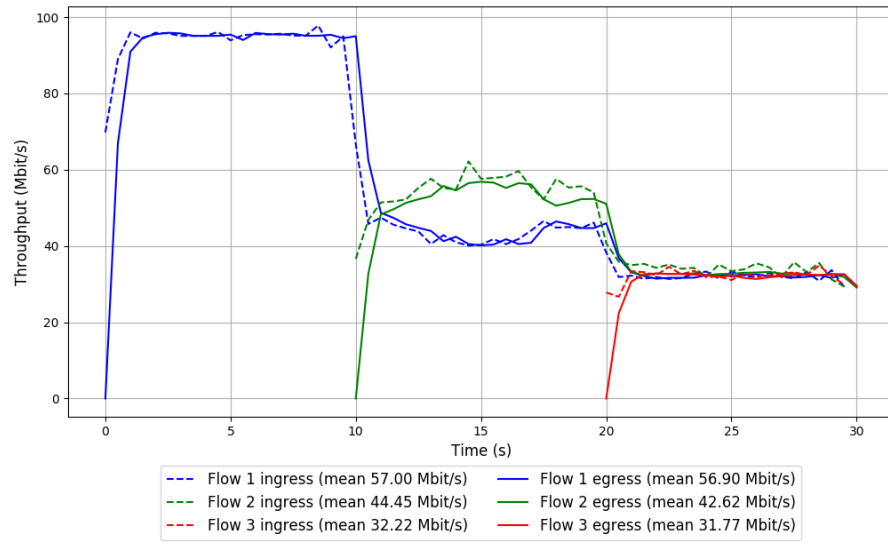


Run 4: Statistics of FillP

Start at: 2019-01-03 10:47:39  
End at: 2019-01-03 10:48:09  
Local clock offset: -7.014 ms  
Remote clock offset: 0.781 ms

# Below is generated by plot.py at 2019-01-03 11:33:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.82 Mbit/s  
95th percentile per-packet one-way delay: 52.257 ms  
Loss rate: 1.48%  
-- Flow 1:  
Average throughput: 56.90 Mbit/s  
95th percentile per-packet one-way delay: 33.162 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 42.62 Mbit/s  
95th percentile per-packet one-way delay: 61.434 ms  
Loss rate: 4.09%  
-- Flow 3:  
Average throughput: 31.77 Mbit/s  
95th percentile per-packet one-way delay: 43.242 ms  
Loss rate: 1.45%

# Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-01-03 11:09:39

End at: 2019-01-03 11:10:09

Local clock offset: -6.996 ms

Remote clock offset: 0.671 ms

# Below is generated by plot.py at 2019-01-03 11:34:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.90 Mbit/s

95th percentile per-packet one-way delay: 50.706 ms

Loss rate: 1.32%

-- Flow 1:

Average throughput: 57.00 Mbit/s

95th percentile per-packet one-way delay: 31.662 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 43.21 Mbit/s

95th percentile per-packet one-way delay: 57.749 ms

Loss rate: 3.51%

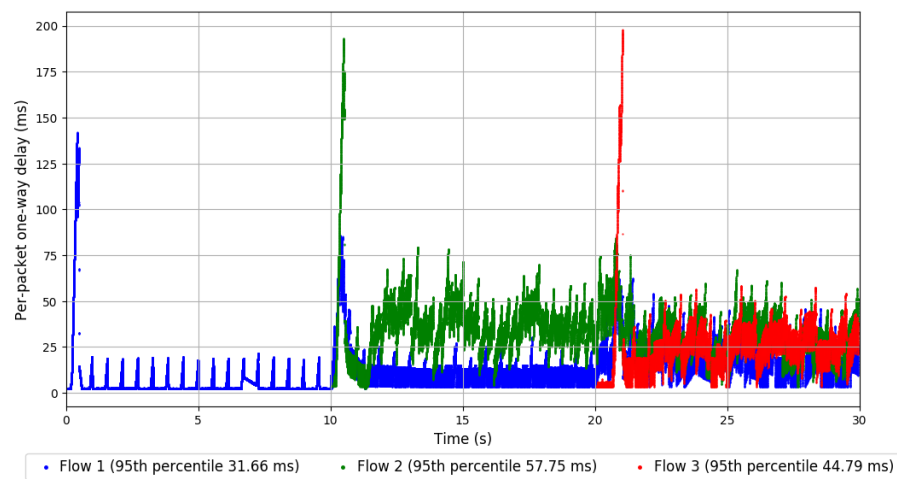
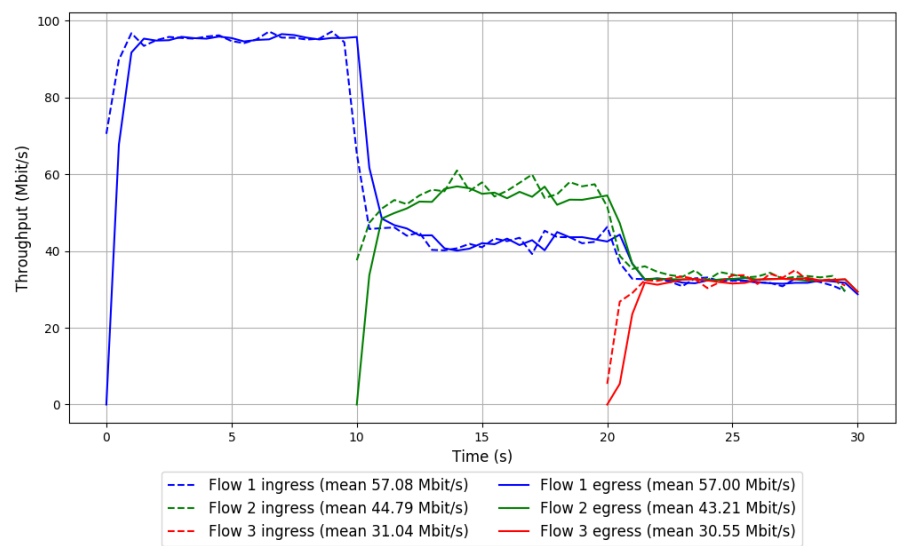
-- Flow 3:

Average throughput: 30.55 Mbit/s

95th percentile per-packet one-way delay: 44.788 ms

Loss rate: 1.54%

Run 5: Report of FillP — Data Link



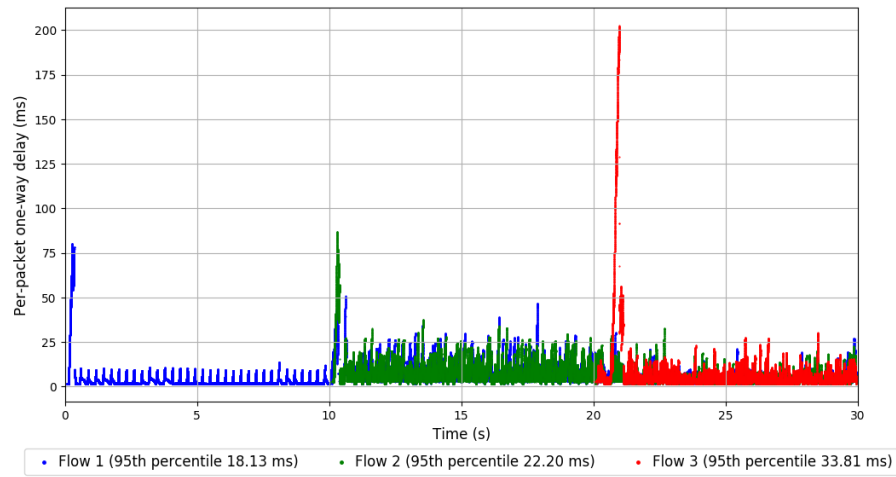
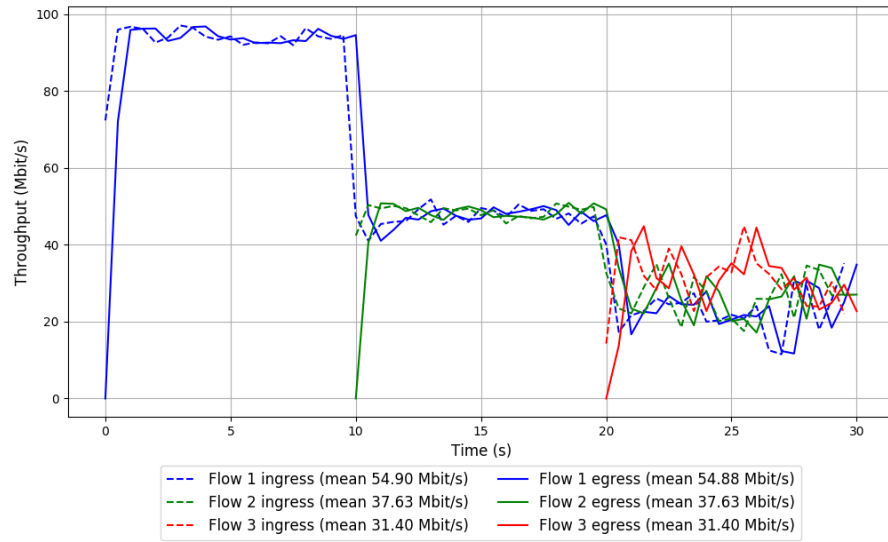


Run 1: Statistics of FillP-Sheep

Start at: 2019-01-03 09:38:19  
End at: 2019-01-03 09:38:49  
Local clock offset: -6.263 ms  
Remote clock offset: -0.203 ms

# Below is generated by plot.py at 2019-01-03 11:34:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.32 Mbit/s  
95th percentile per-packet one-way delay: 20.271 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 54.88 Mbit/s  
95th percentile per-packet one-way delay: 18.129 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 37.63 Mbit/s  
95th percentile per-packet one-way delay: 22.203 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 31.40 Mbit/s  
95th percentile per-packet one-way delay: 33.807 ms  
Loss rate: 0.02%

# Run 1: Report of FillP-Sheep — Data Link

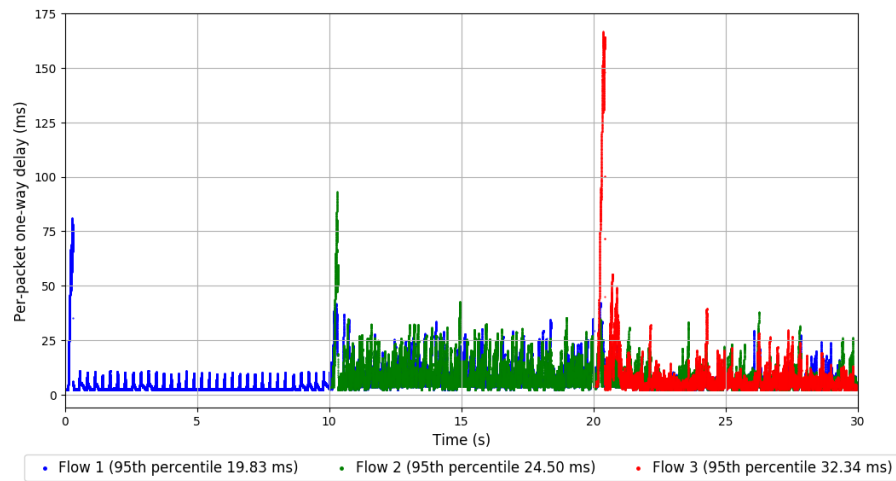
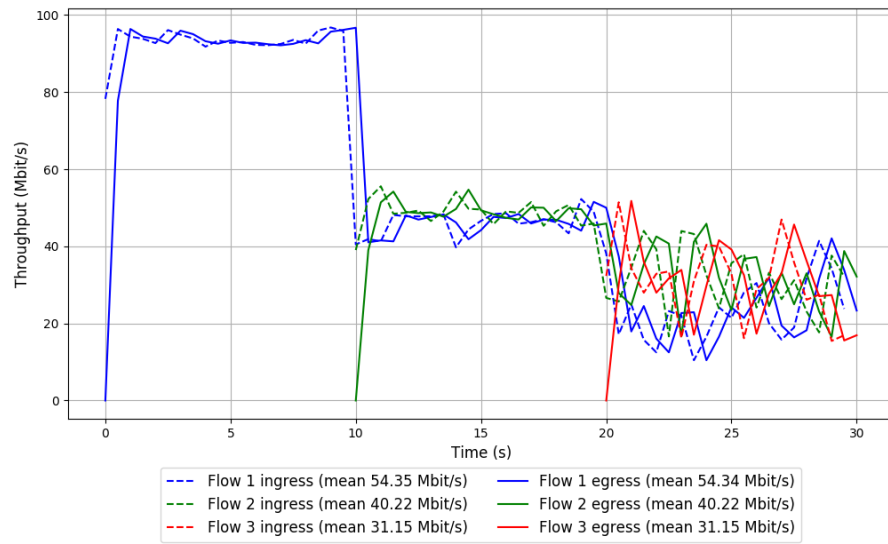


Run 2: Statistics of FillP-Sheep

Start at: 2019-01-03 10:00:15  
End at: 2019-01-03 10:00:45  
Local clock offset: -6.757 ms  
Remote clock offset: 0.194 ms

# Below is generated by plot.py at 2019-01-03 11:34:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.44 Mbit/s  
95th percentile per-packet one-way delay: 22.775 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 54.34 Mbit/s  
95th percentile per-packet one-way delay: 19.827 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 40.22 Mbit/s  
95th percentile per-packet one-way delay: 24.498 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 31.15 Mbit/s  
95th percentile per-packet one-way delay: 32.343 ms  
Loss rate: 0.01%

## Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-01-03 10:22:13

End at: 2019-01-03 10:22:43

Local clock offset: -7.545 ms

Remote clock offset: 0.575 ms

# Below is generated by plot.py at 2019-01-03 11:34:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.09 Mbit/s

95th percentile per-packet one-way delay: 22.572 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 57.29 Mbit/s

95th percentile per-packet one-way delay: 19.704 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 37.57 Mbit/s

95th percentile per-packet one-way delay: 24.039 ms

Loss rate: 0.10%

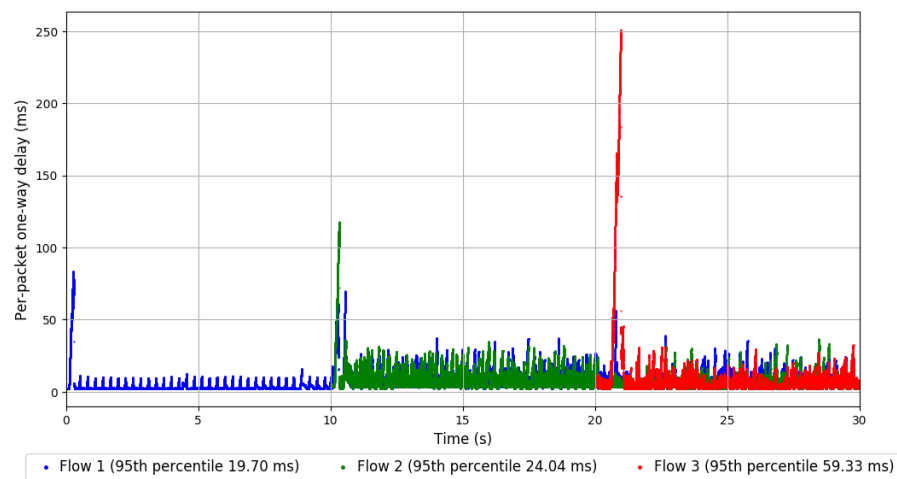
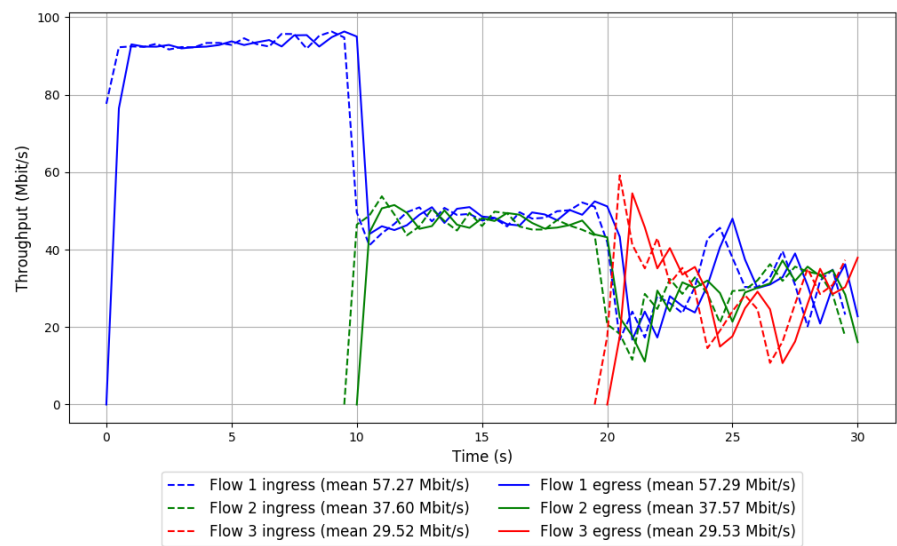
-- Flow 3:

Average throughput: 29.53 Mbit/s

95th percentile per-packet one-way delay: 59.328 ms

Loss rate: 0.03%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-01-03 10:44:11

End at: 2019-01-03 10:44:41

Local clock offset: -7.052 ms

Remote clock offset: 0.704 ms

# Below is generated by plot.py at 2019-01-03 11:34:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.25 Mbit/s

95th percentile per-packet one-way delay: 26.482 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 54.83 Mbit/s

95th percentile per-packet one-way delay: 18.480 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.60 Mbit/s

95th percentile per-packet one-way delay: 31.544 ms

Loss rate: 0.07%

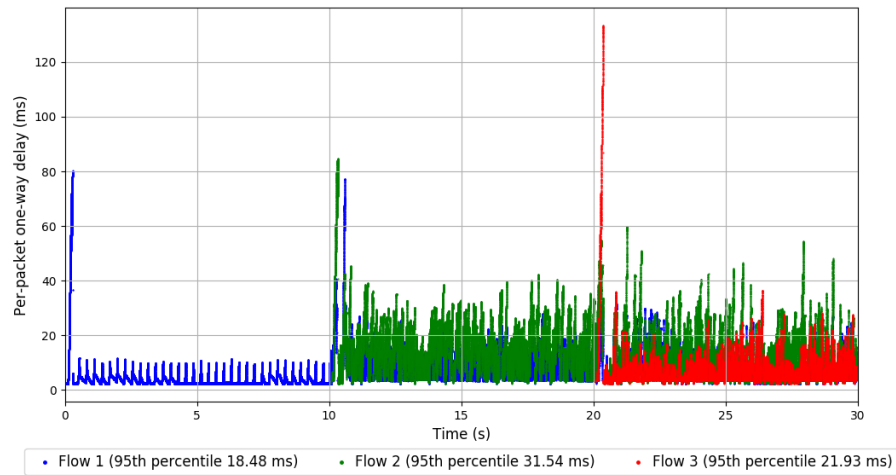
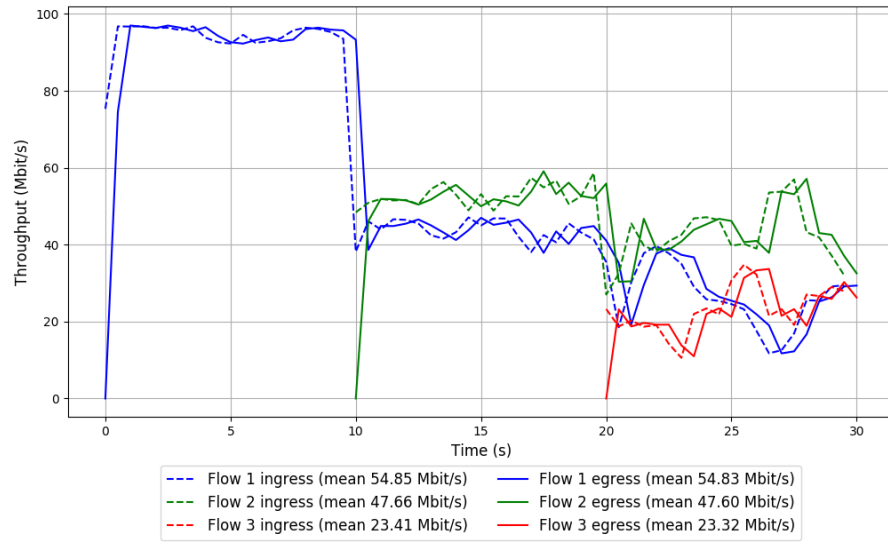
-- Flow 3:

Average throughput: 23.32 Mbit/s

95th percentile per-packet one-way delay: 21.932 ms

Loss rate: 0.39%

#### Run 4: Report of FillP-Sheep — Data Link





Run 5: Statistics of FillP-Sheep

Start at: 2019-01-03 11:06:10

End at: 2019-01-03 11:06:40

Local clock offset: -7.756 ms

Remote clock offset: 0.829 ms

# Below is generated by plot.py at 2019-01-03 11:34:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 25.238 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 62.46 Mbit/s

95th percentile per-packet one-way delay: 25.941 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 35.61 Mbit/s

95th percentile per-packet one-way delay: 21.472 ms

Loss rate: 0.04%

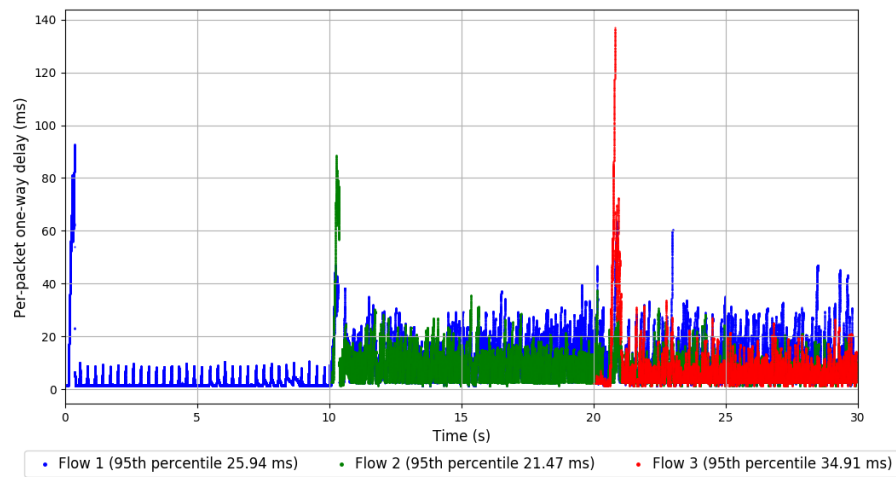
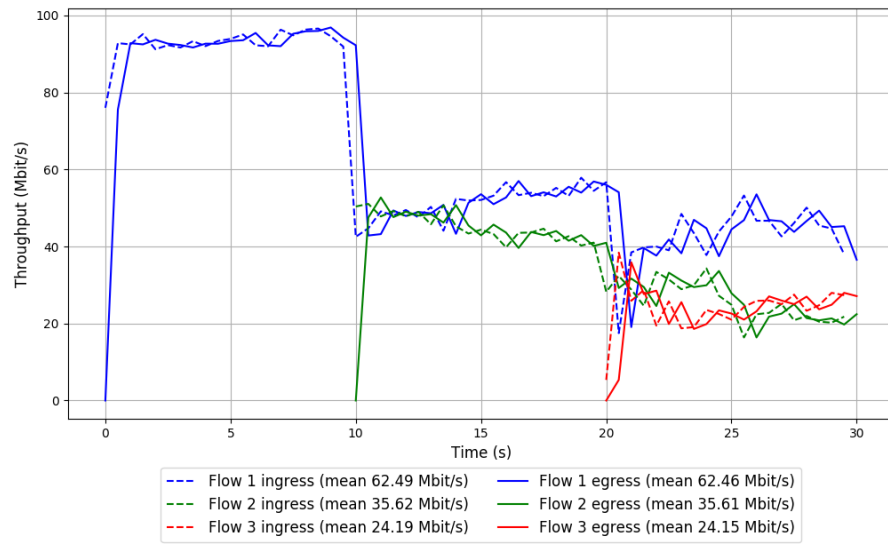
-- Flow 3:

Average throughput: 24.15 Mbit/s

95th percentile per-packet one-way delay: 34.909 ms

Loss rate: 0.07%

## Run 5: Report of FillP-Sheep — Data Link

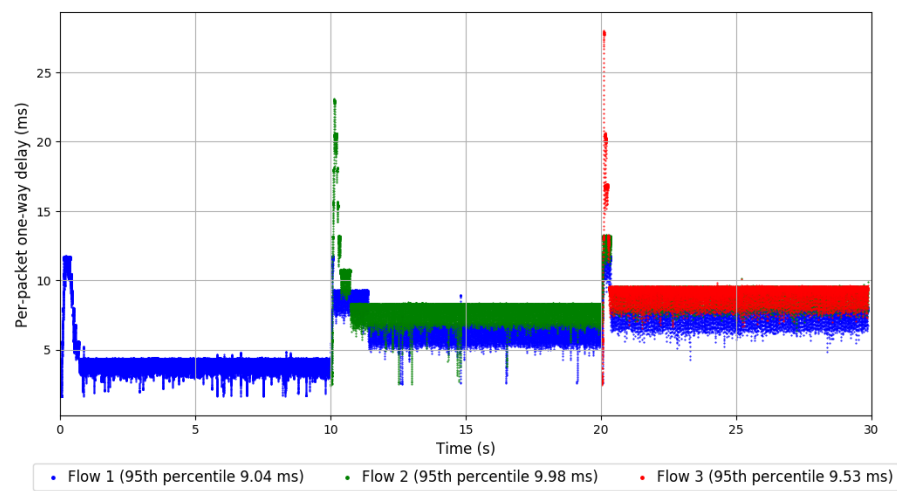
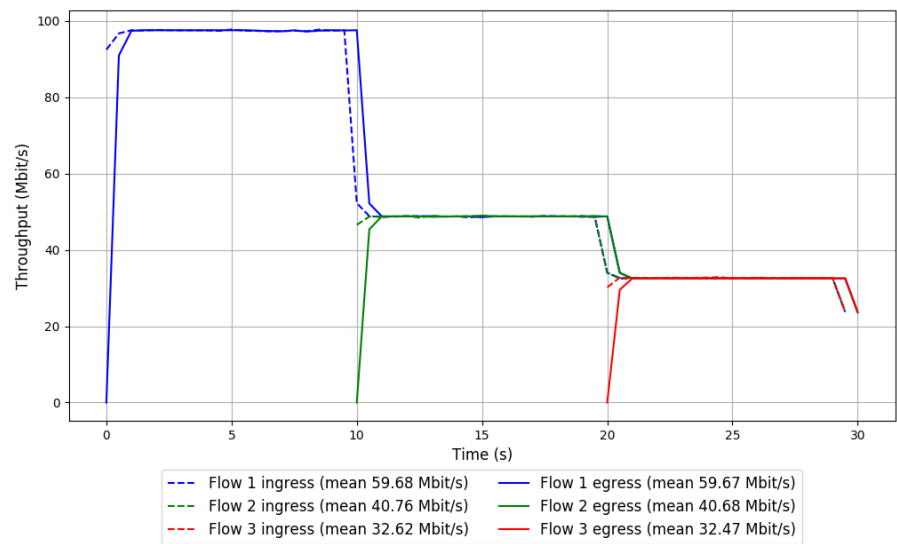


Run 1: Statistics of Indigo

Start at: 2019-01-03 09:40:37  
End at: 2019-01-03 09:41:07  
Local clock offset: -6.489 ms  
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2019-01-03 11:34:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.40 Mbit/s  
95th percentile per-packet one-way delay: 9.497 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 59.67 Mbit/s  
95th percentile per-packet one-way delay: 9.040 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 40.68 Mbit/s  
95th percentile per-packet one-way delay: 9.984 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 32.47 Mbit/s  
95th percentile per-packet one-way delay: 9.534 ms  
Loss rate: 0.48%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-01-03 10:02:32

End at: 2019-01-03 10:03:02

Local clock offset: -6.855 ms

Remote clock offset: 0.266 ms

# Below is generated by plot.py at 2019-01-03 11:34:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.40 Mbit/s

95th percentile per-packet one-way delay: 10.155 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 59.66 Mbit/s

95th percentile per-packet one-way delay: 9.647 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 40.68 Mbit/s

95th percentile per-packet one-way delay: 10.633 ms

Loss rate: 0.17%

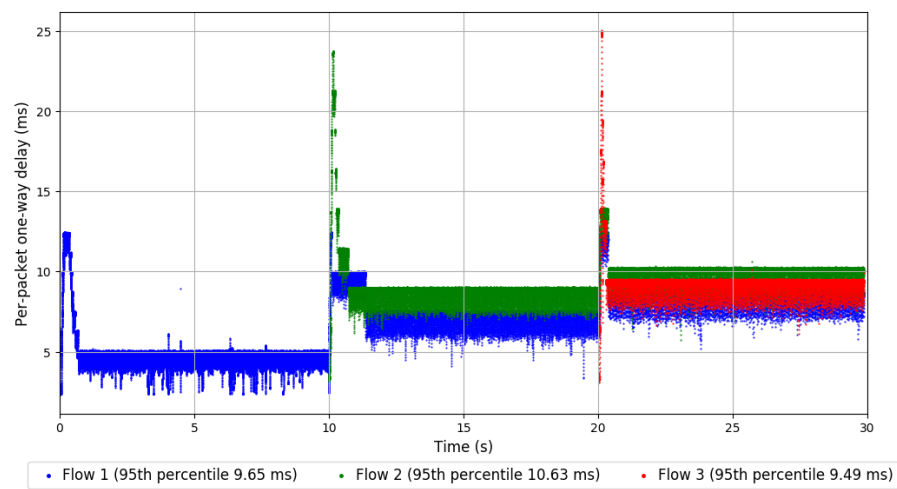
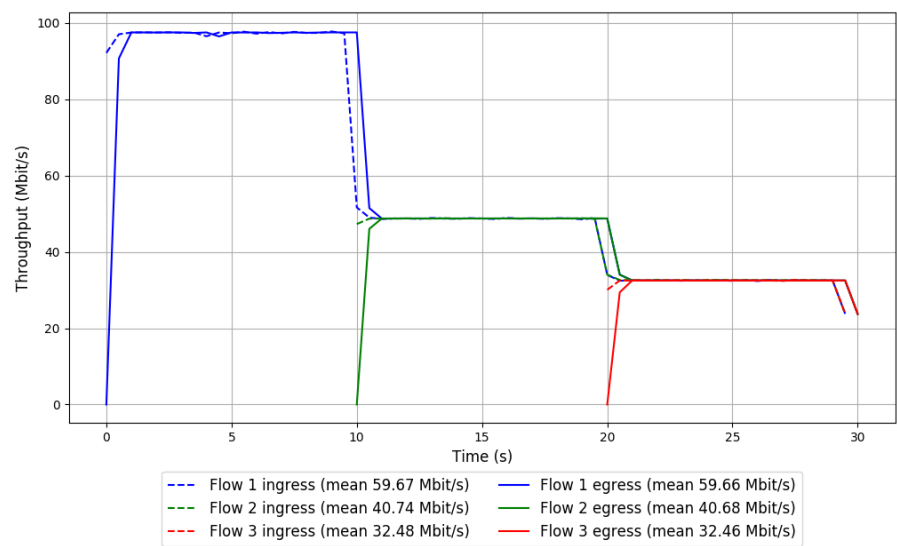
-- Flow 3:

Average throughput: 32.46 Mbit/s

95th percentile per-packet one-way delay: 9.489 ms

Loss rate: 0.10%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-01-03 10:24:31

End at: 2019-01-03 10:25:01

Local clock offset: -8.313 ms

Remote clock offset: 0.47 ms

# Below is generated by plot.py at 2019-01-03 11:35:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.37 Mbit/s

95th percentile per-packet one-way delay: 11.178 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 59.66 Mbit/s

95th percentile per-packet one-way delay: 9.028 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 40.68 Mbit/s

95th percentile per-packet one-way delay: 11.513 ms

Loss rate: 1.63%

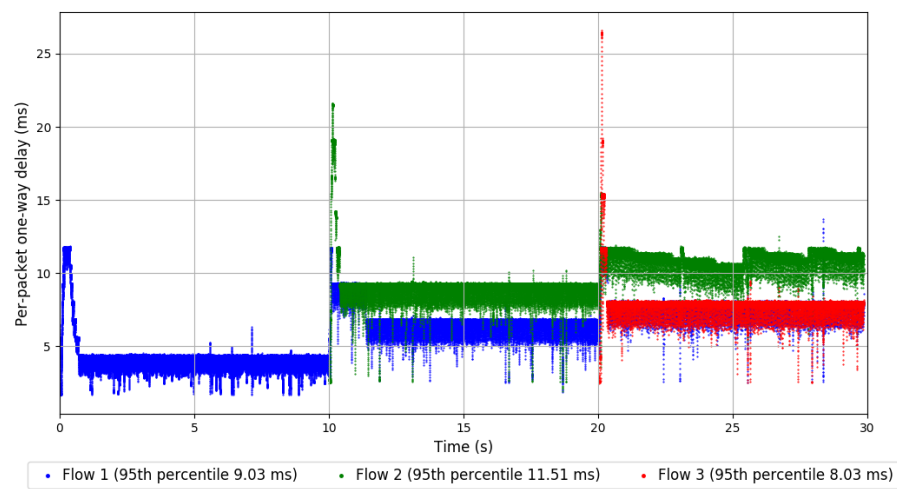
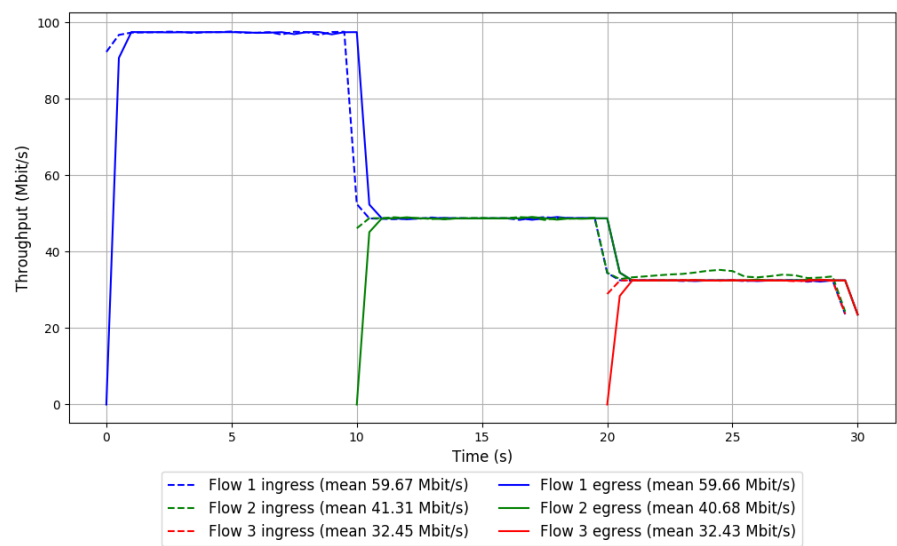
-- Flow 3:

Average throughput: 32.43 Mbit/s

95th percentile per-packet one-way delay: 8.030 ms

Loss rate: 0.10%

Run 3: Report of Indigo — Data Link





Run 4: Statistics of Indigo

Start at: 2019-01-03 10:46:29

End at: 2019-01-03 10:46:59

Local clock offset: -7.757 ms

Remote clock offset: 0.737 ms

# Below is generated by plot.py at 2019-01-03 11:35:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.44 Mbit/s

95th percentile per-packet one-way delay: 9.808 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 59.71 Mbit/s

95th percentile per-packet one-way delay: 9.459 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 40.69 Mbit/s

95th percentile per-packet one-way delay: 10.182 ms

Loss rate: 0.20%

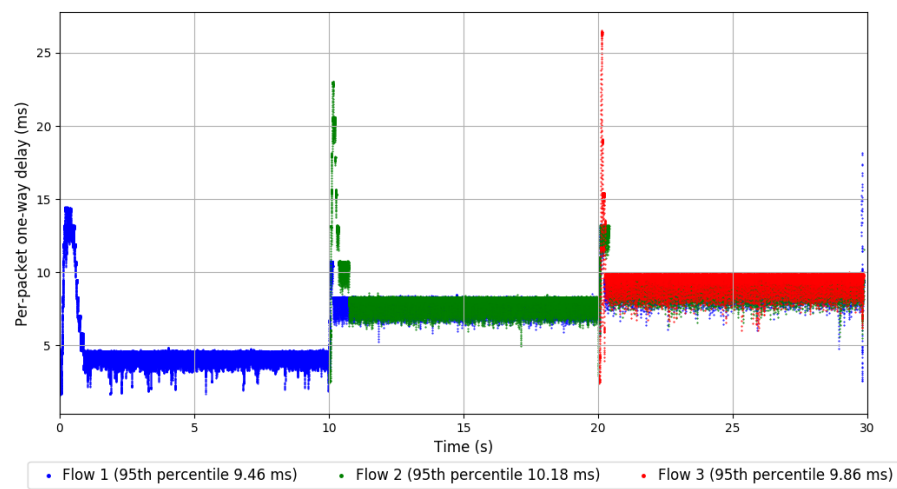
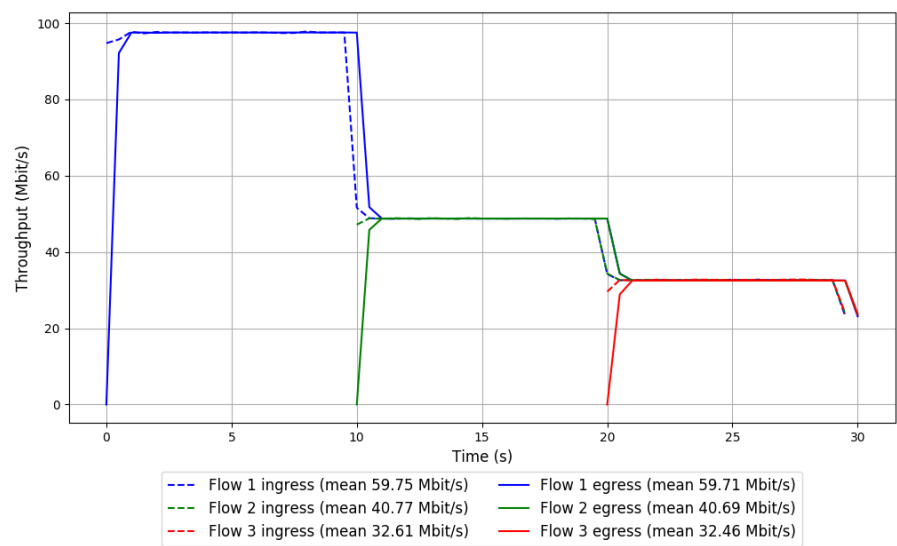
-- Flow 3:

Average throughput: 32.46 Mbit/s

95th percentile per-packet one-way delay: 9.859 ms

Loss rate: 0.61%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-01-03 11:08:28

End at: 2019-01-03 11:08:58

Local clock offset: -7.011 ms

Remote clock offset: 0.701 ms

# Below is generated by plot.py at 2019-01-03 11:35:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.41 Mbit/s

95th percentile per-packet one-way delay: 11.727 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 59.71 Mbit/s

95th percentile per-packet one-way delay: 10.271 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 40.64 Mbit/s

95th percentile per-packet one-way delay: 12.112 ms

Loss rate: 2.79%

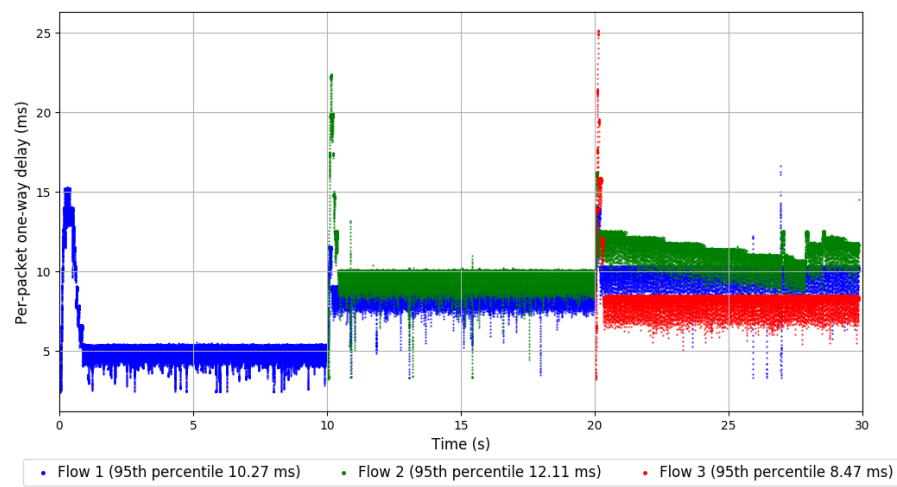
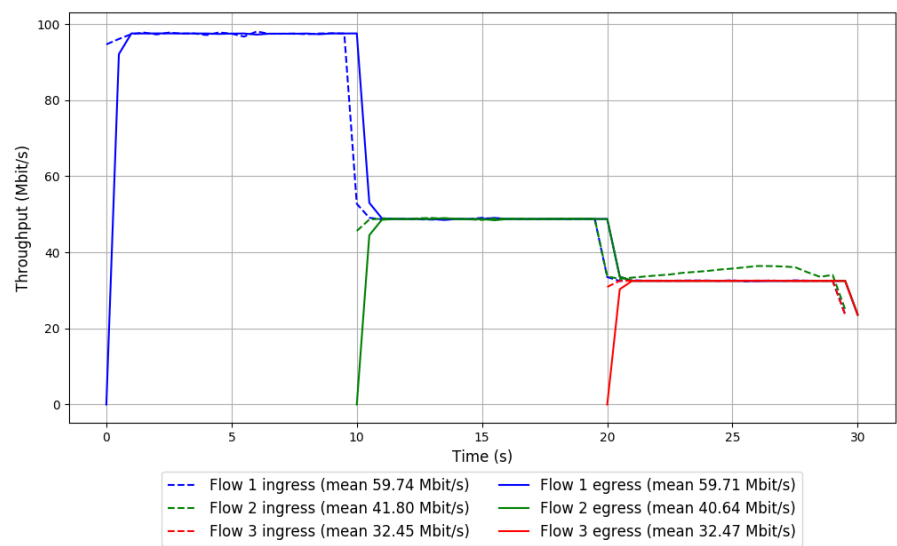
-- Flow 3:

Average throughput: 32.47 Mbit/s

95th percentile per-packet one-way delay: 8.471 ms

Loss rate: 0.11%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-01-03 09:54:28

End at: 2019-01-03 09:54:58

Local clock offset: -6.543 ms

Remote clock offset: 0.044 ms

# Below is generated by plot.py at 2019-01-03 11:35:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 40.18 Mbit/s

95th percentile per-packet one-way delay: 3.084 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 19.39 Mbit/s

95th percentile per-packet one-way delay: 2.947 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 18.90 Mbit/s

95th percentile per-packet one-way delay: 3.060 ms

Loss rate: 0.00%

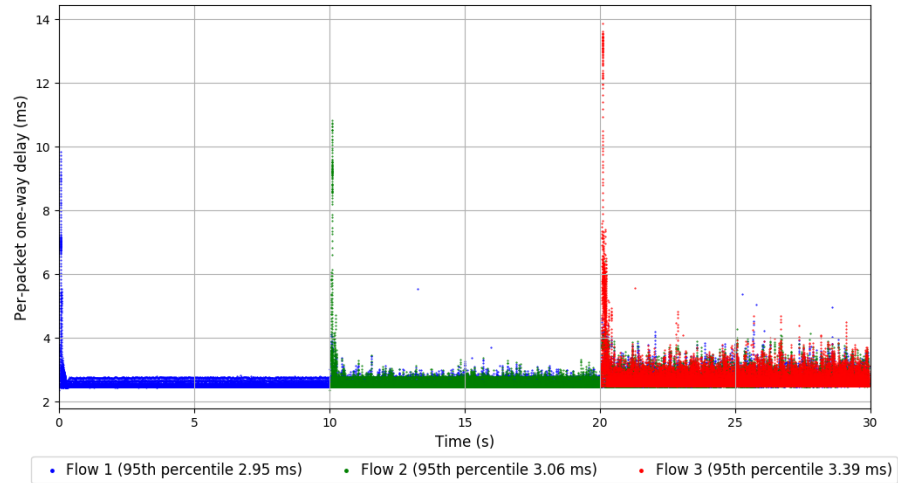
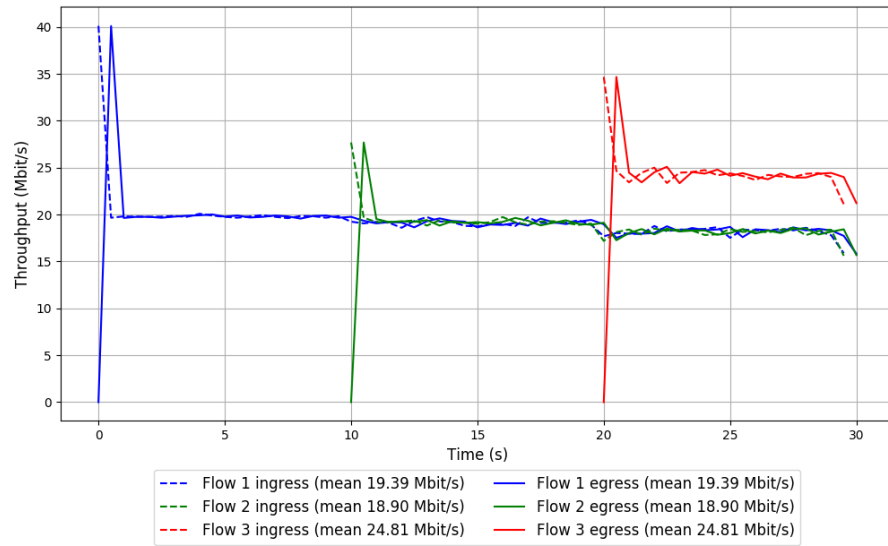
-- Flow 3:

Average throughput: 24.81 Mbit/s

95th percentile per-packet one-way delay: 3.392 ms

Loss rate: 0.00%

## Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-01-03 10:16:25

End at: 2019-01-03 10:16:55

Local clock offset: -7.308 ms

Remote clock offset: 0.409 ms

# Below is generated by plot.py at 2019-01-03 11:35:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 44.57 Mbit/s

95th percentile per-packet one-way delay: 3.161 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 19.10 Mbit/s

95th percentile per-packet one-way delay: 3.019 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 25.86 Mbit/s

95th percentile per-packet one-way delay: 3.171 ms

Loss rate: 0.02%

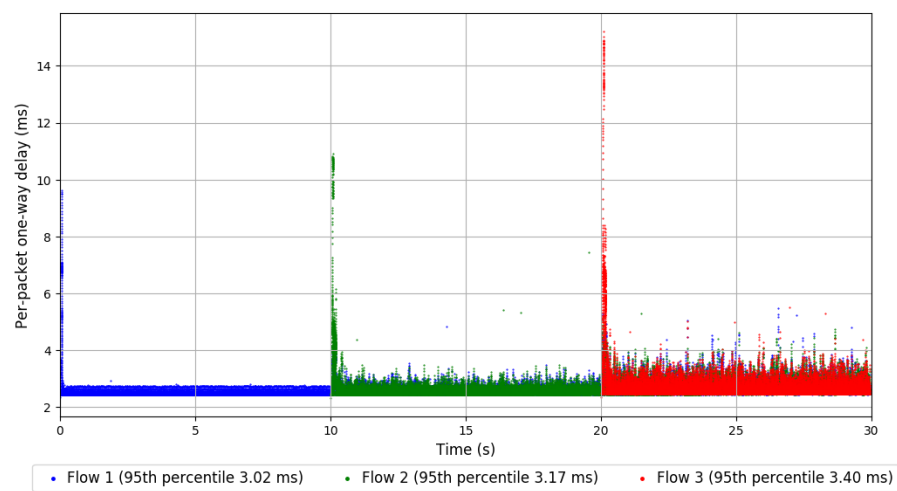
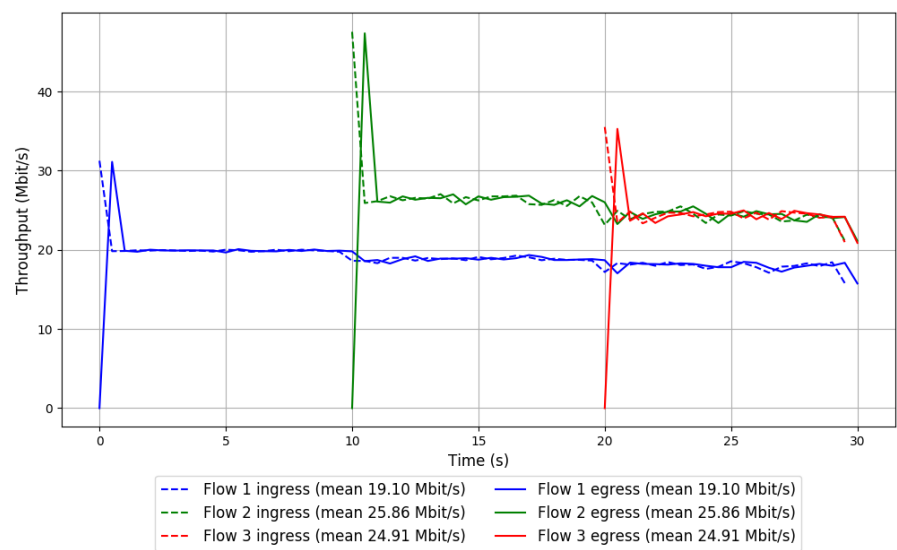
-- Flow 3:

Average throughput: 24.91 Mbit/s

95th percentile per-packet one-way delay: 3.405 ms

Loss rate: 0.04%

Run 2: Report of Indigo-MusesD — Data Link





Run 3: Statistics of Indigo-MusesD

Start at: 2019-01-03 10:38:24

End at: 2019-01-03 10:38:54

Local clock offset: -7.766 ms

Remote clock offset: 0.731 ms

# Below is generated by plot.py at 2019-01-03 11:35:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 45.26 Mbit/s

95th percentile per-packet one-way delay: 2.208 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 26.62 Mbit/s

95th percentile per-packet one-way delay: 2.133 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 18.71 Mbit/s

95th percentile per-packet one-way delay: 2.204 ms

Loss rate: 0.01%

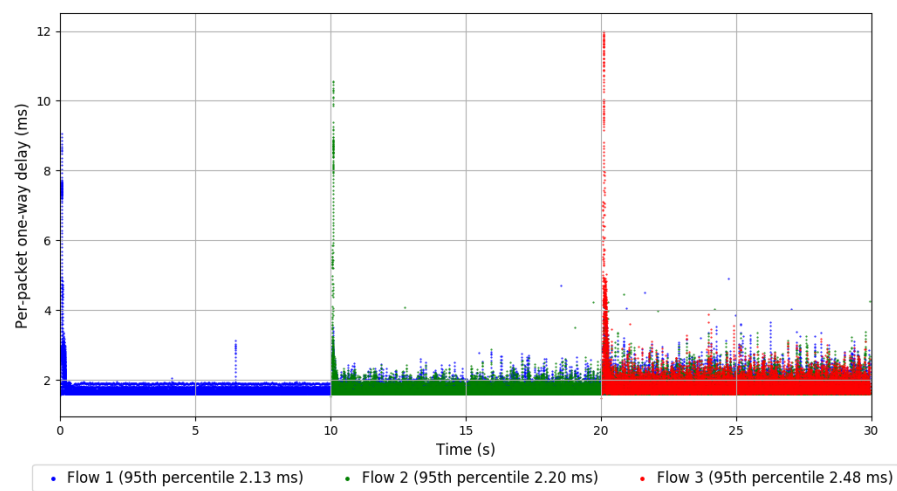
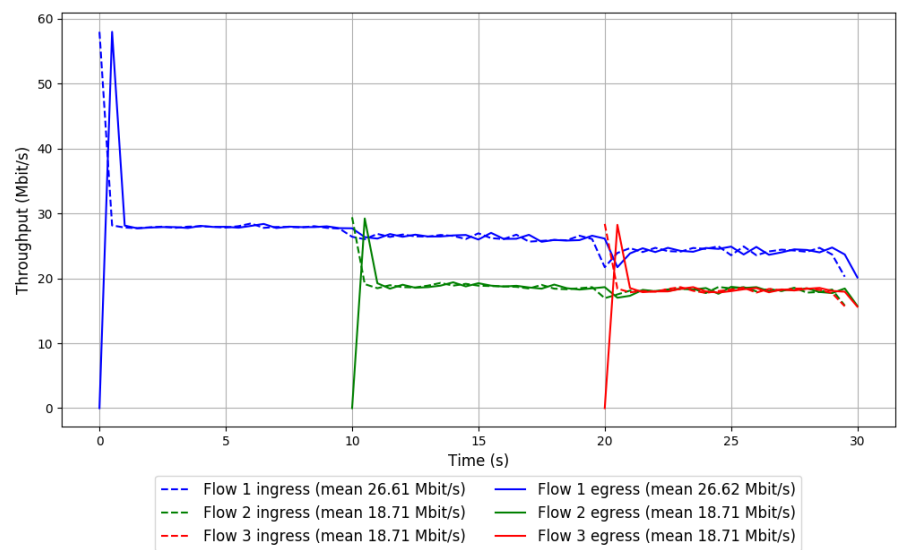
-- Flow 3:

Average throughput: 18.71 Mbit/s

95th percentile per-packet one-way delay: 2.476 ms

Loss rate: 0.02%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-01-03 11:00:23

End at: 2019-01-03 11:00:53

Local clock offset: -7.007 ms

Remote clock offset: 0.73 ms

# Below is generated by plot.py at 2019-01-03 11:35:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 40.25 Mbit/s

95th percentile per-packet one-way delay: 3.026 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 19.16 Mbit/s

95th percentile per-packet one-way delay: 2.896 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 19.15 Mbit/s

95th percentile per-packet one-way delay: 3.040 ms

Loss rate: 0.02%

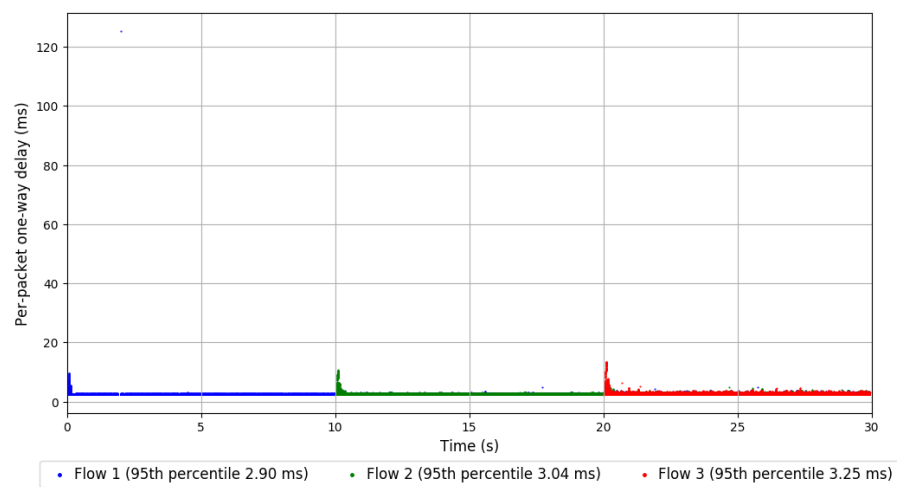
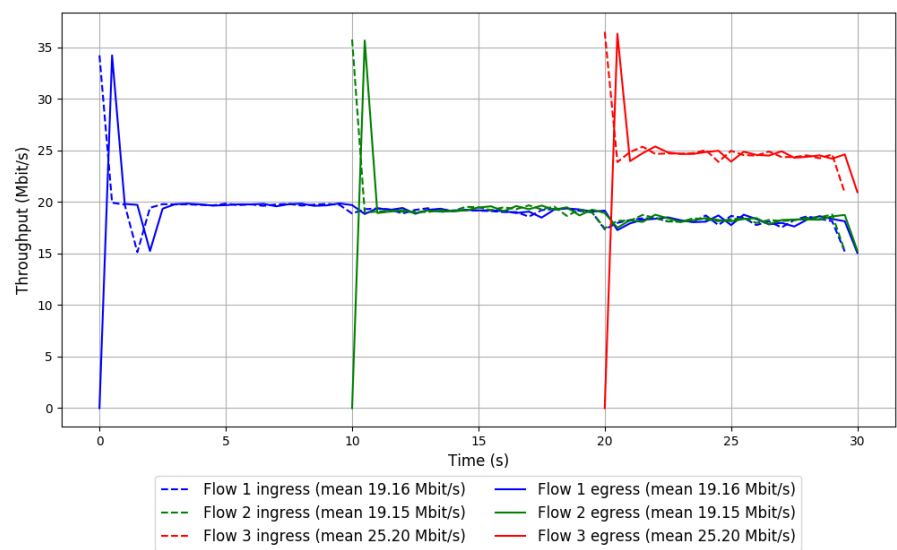
-- Flow 3:

Average throughput: 25.20 Mbit/s

95th percentile per-packet one-way delay: 3.245 ms

Loss rate: 0.02%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-01-03 11:22:21

End at: 2019-01-03 11:22:51

Local clock offset: -7.118 ms

Remote clock offset: 0.851 ms

# Below is generated by plot.py at 2019-01-03 11:35:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 45.50 Mbit/s

95th percentile per-packet one-way delay: 2.987 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 26.71 Mbit/s

95th percentile per-packet one-way delay: 2.888 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 18.83 Mbit/s

95th percentile per-packet one-way delay: 3.015 ms

Loss rate: 0.01%

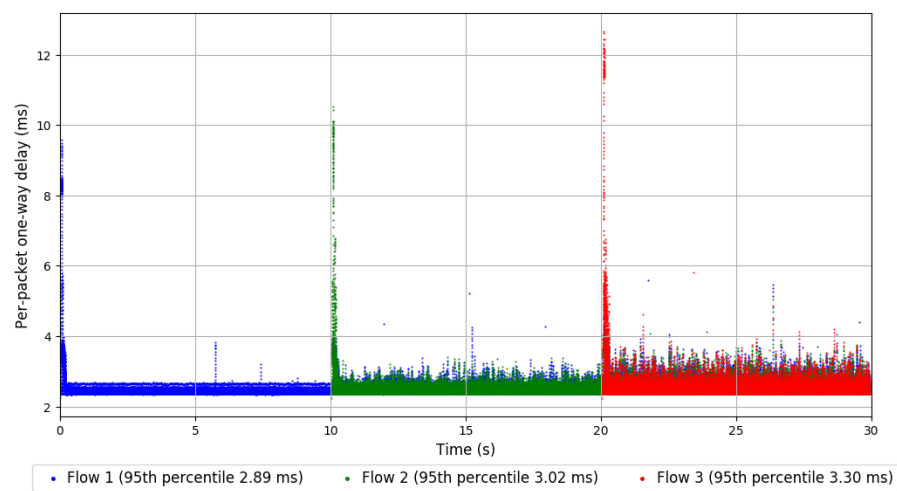
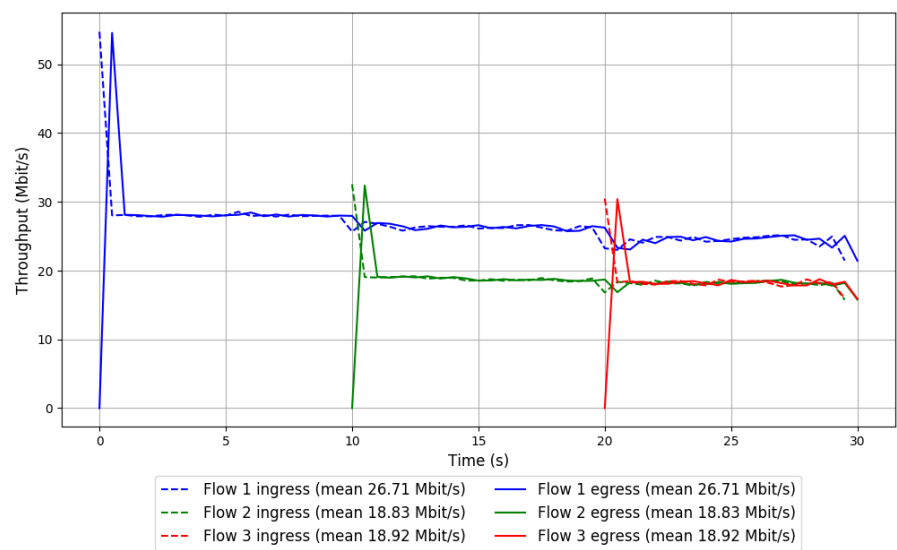
-- Flow 3:

Average throughput: 18.92 Mbit/s

95th percentile per-packet one-way delay: 3.303 ms

Loss rate: 0.05%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-01-03 09:59:04

End at: 2019-01-03 09:59:34

Local clock offset: -7.455 ms

Remote clock offset: 0.13 ms

# Below is generated by plot.py at 2019-01-03 11:35:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.84 Mbit/s

95th percentile per-packet one-way delay: 1172.491 ms

Loss rate: 28.36%

-- Flow 1:

Average throughput: 60.27 Mbit/s

95th percentile per-packet one-way delay: 1164.921 ms

Loss rate: 25.06%

-- Flow 2:

Average throughput: 41.14 Mbit/s

95th percentile per-packet one-way delay: 1171.118 ms

Loss rate: 30.85%

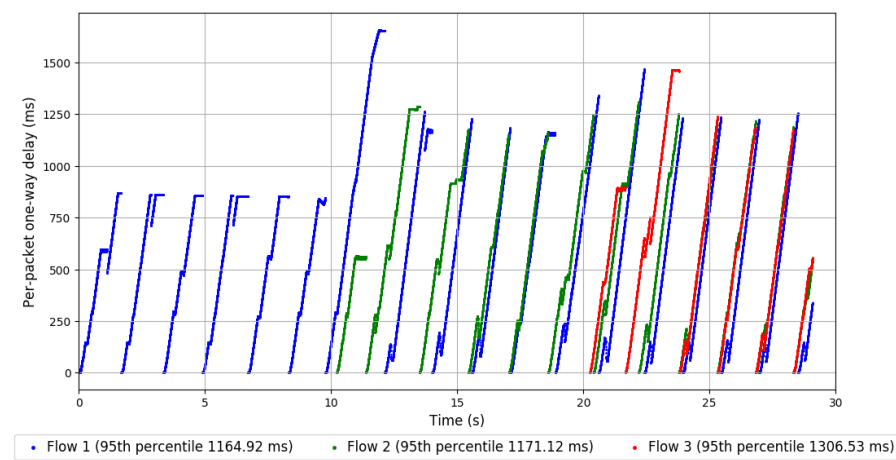
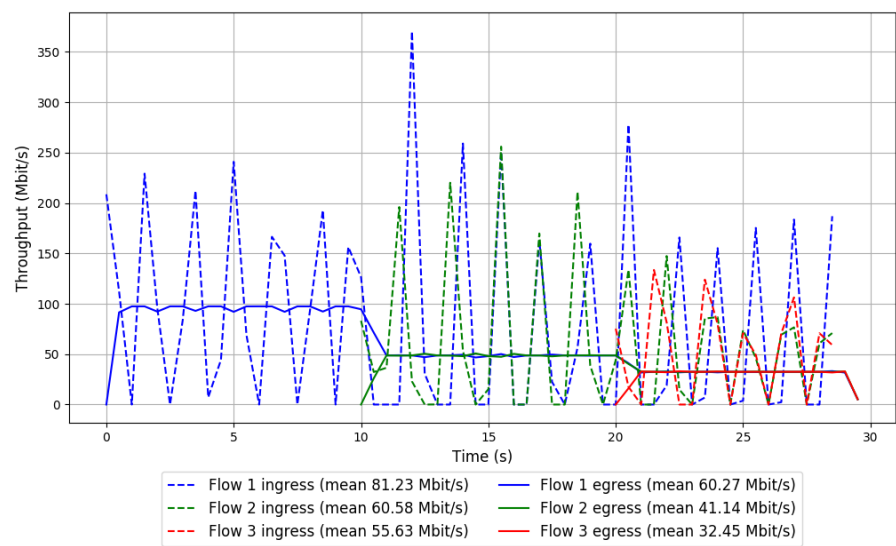
-- Flow 3:

Average throughput: 32.45 Mbit/s

95th percentile per-packet one-way delay: 1306.532 ms

Loss rate: 38.86%

Run 1: Report of Indigo-MusesT — Data Link





Run 2: Statistics of Indigo-MusesT

Start at: 2019-01-03 10:21:02

End at: 2019-01-03 10:21:32

Local clock offset: -7.466 ms

Remote clock offset: 0.551 ms

# Below is generated by plot.py at 2019-01-03 11:36:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.92 Mbit/s

95th percentile per-packet one-way delay: 1142.226 ms

Loss rate: 39.19%

-- Flow 1:

Average throughput: 60.35 Mbit/s

95th percentile per-packet one-way delay: 1085.332 ms

Loss rate: 27.47%

-- Flow 2:

Average throughput: 41.11 Mbit/s

95th percentile per-packet one-way delay: 1185.368 ms

Loss rate: 53.90%

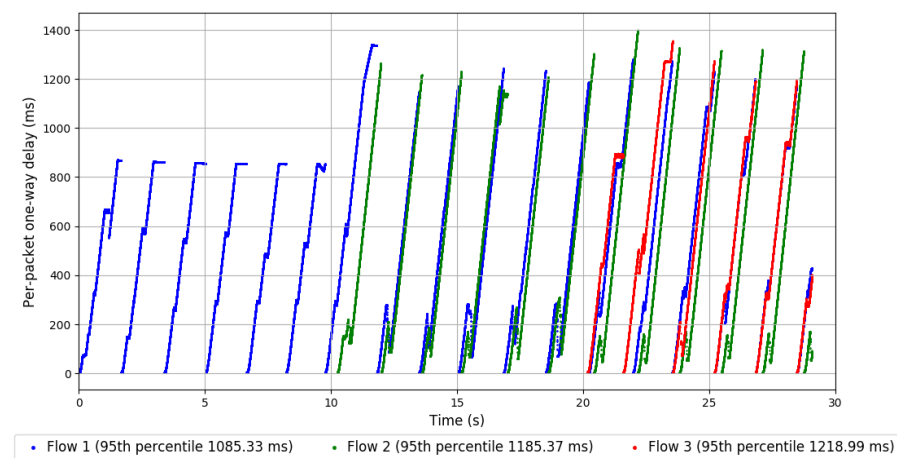
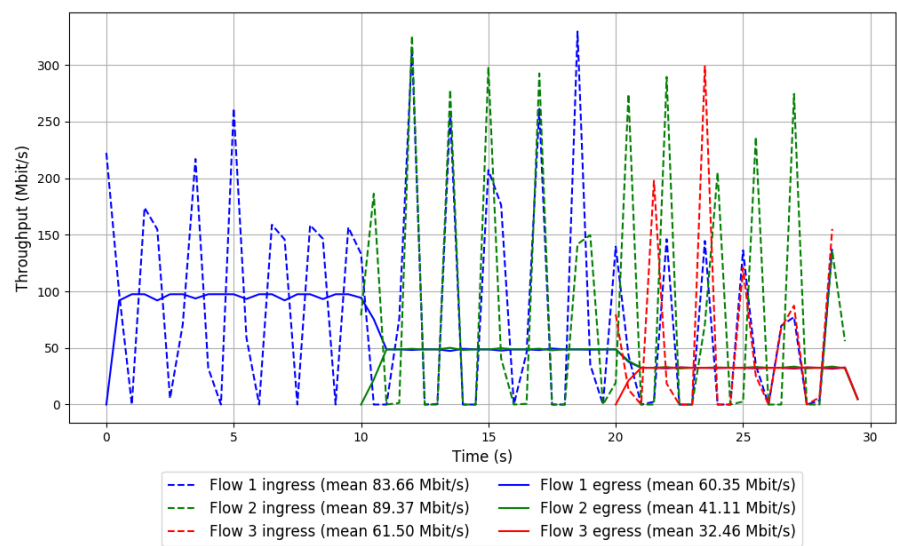
-- Flow 3:

Average throughput: 32.46 Mbit/s

95th percentile per-packet one-way delay: 1218.988 ms

Loss rate: 46.00%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-01-03 10:43:01

End at: 2019-01-03 10:43:31

Local clock offset: -7.733 ms

Remote clock offset: 0.745 ms

# Below is generated by plot.py at 2019-01-03 11:36:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.86 Mbit/s

95th percentile per-packet one-way delay: 1115.426 ms

Loss rate: 31.17%

-- Flow 1:

Average throughput: 60.27 Mbit/s

95th percentile per-packet one-way delay: 1089.201 ms

Loss rate: 23.35%

-- Flow 2:

Average throughput: 41.13 Mbit/s

95th percentile per-packet one-way delay: 1118.326 ms

Loss rate: 39.92%

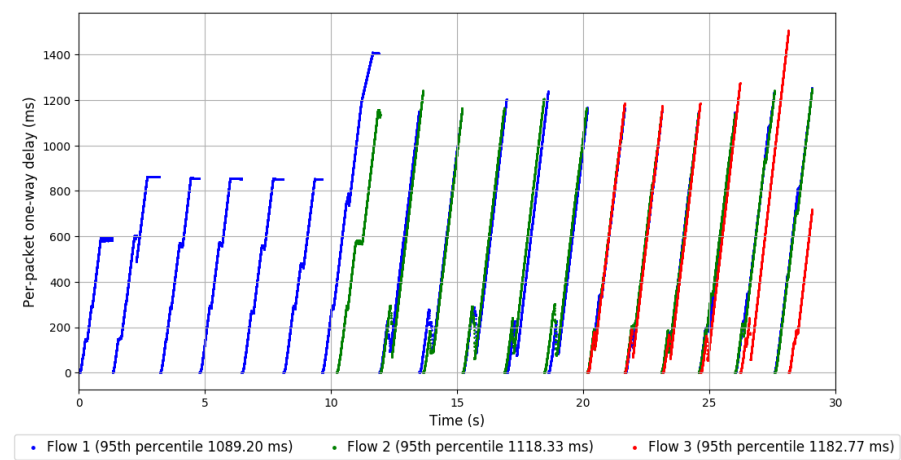
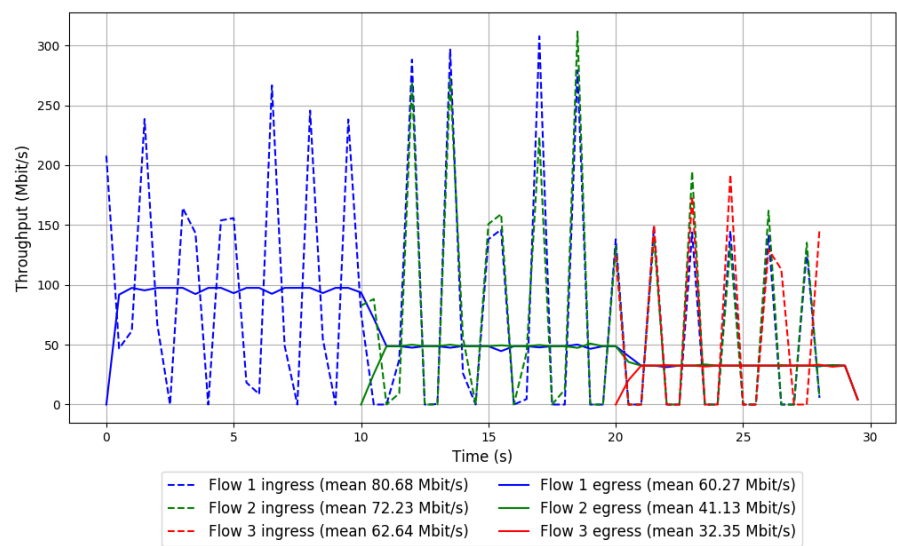
-- Flow 3:

Average throughput: 32.35 Mbit/s

95th percentile per-packet one-way delay: 1182.772 ms

Loss rate: 43.99%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-01-03 11:05:00

End at: 2019-01-03 11:05:30

Local clock offset: -6.985 ms

Remote clock offset: 0.685 ms

# Below is generated by plot.py at 2019-01-03 11:36:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.94 Mbit/s

95th percentile per-packet one-way delay: 1164.982 ms

Loss rate: 32.58%

-- Flow 1:

Average throughput: 60.37 Mbit/s

95th percentile per-packet one-way delay: 1148.171 ms

Loss rate: 28.20%

-- Flow 2:

Average throughput: 41.14 Mbit/s

95th percentile per-packet one-way delay: 1160.810 ms

Loss rate: 38.27%

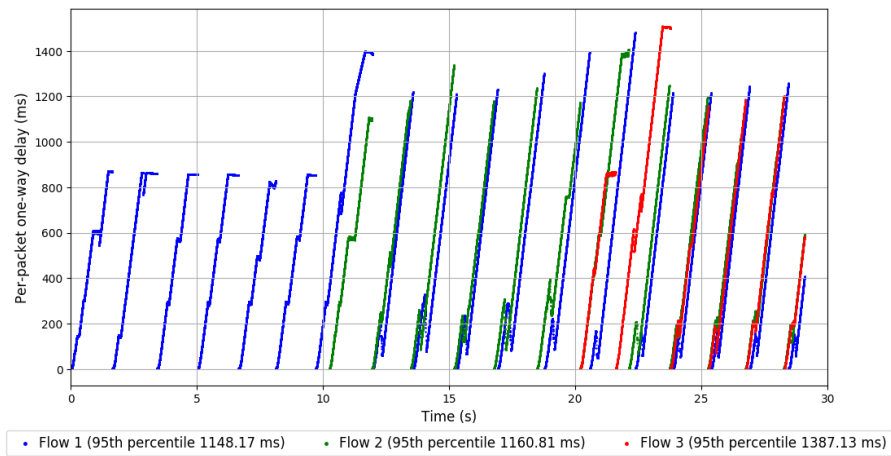
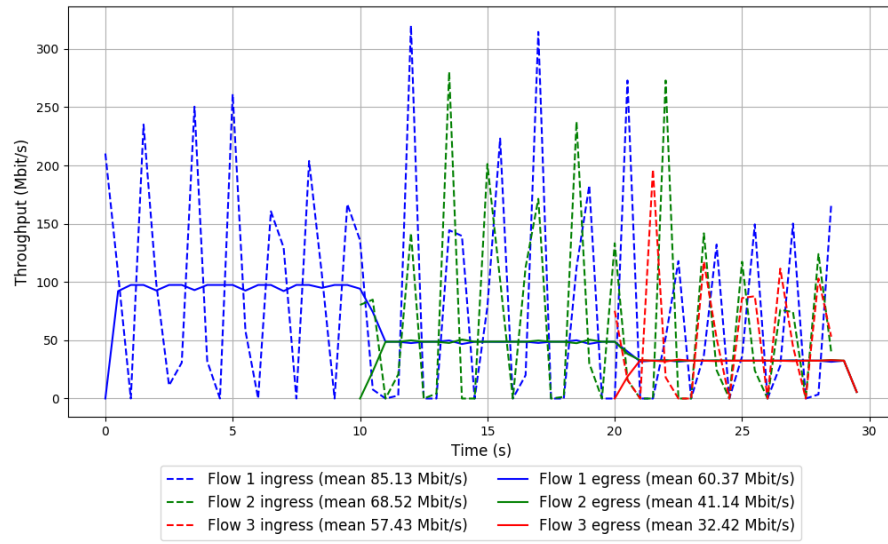
-- Flow 3:

Average throughput: 32.42 Mbit/s

95th percentile per-packet one-way delay: 1387.127 ms

Loss rate: 40.00%

# Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-01-03 11:26:58

End at: 2019-01-03 11:27:28

Local clock offset: -7.866 ms

Remote clock offset: 0.8 ms

# Below is generated by plot.py at 2019-01-03 11:36:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.12 Mbit/s

95th percentile per-packet one-way delay: 1148.551 ms

Loss rate: 34.38%

-- Flow 1:

Average throughput: 60.59 Mbit/s

95th percentile per-packet one-way delay: 1139.995 ms

Loss rate: 29.10%

-- Flow 2:

Average throughput: 41.06 Mbit/s

95th percentile per-packet one-way delay: 1144.892 ms

Loss rate: 42.20%

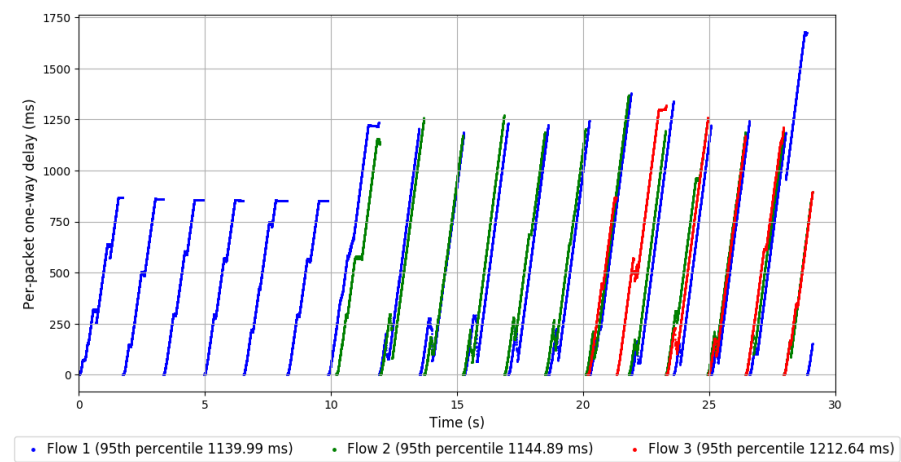
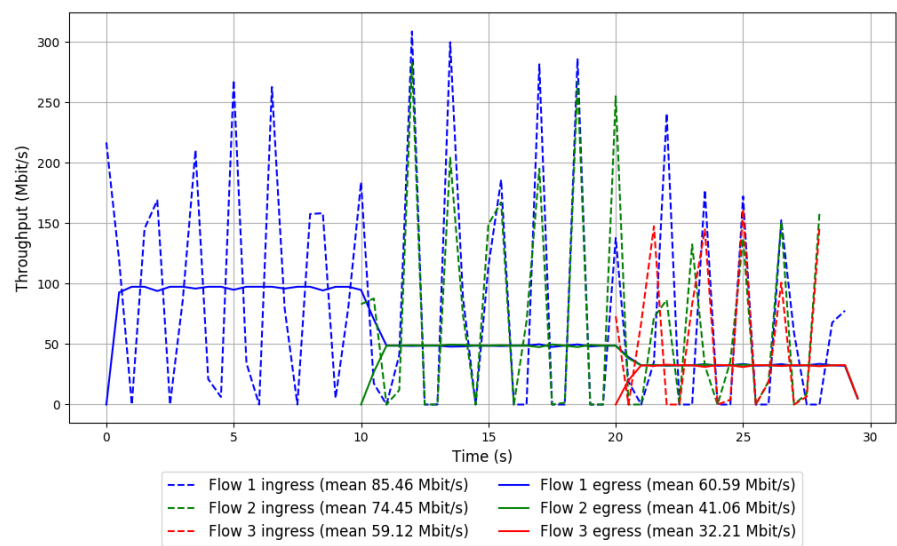
-- Flow 3:

Average throughput: 32.21 Mbit/s

95th percentile per-packet one-way delay: 1212.639 ms

Loss rate: 39.84%

Run 5: Report of Indigo-MusesT — Data Link



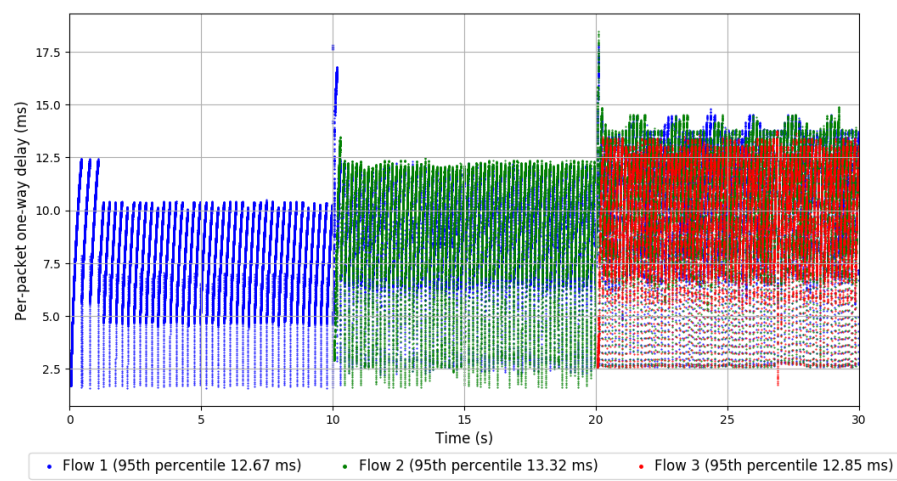
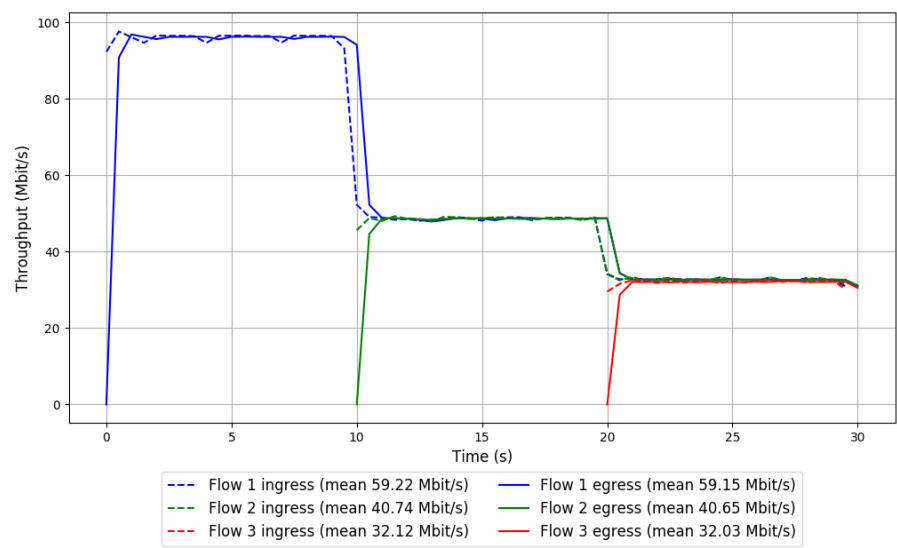


```
Run 1: Statistics of LEDBAT

Start at: 2019-01-03 09:52:07
End at: 2019-01-03 09:52:37
Local clock offset: -7.191 ms
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2019-01-03 11:36:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.84 Mbit/s
95th percentile per-packet one-way delay: 12.960 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 59.15 Mbit/s
95th percentile per-packet one-way delay: 12.669 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 40.65 Mbit/s
95th percentile per-packet one-way delay: 13.316 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 32.03 Mbit/s
95th percentile per-packet one-way delay: 12.849 ms
Loss rate: 0.32%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-01-03 10:14:05

End at: 2019-01-03 10:14:35

Local clock offset: -7.983 ms

Remote clock offset: 0.446 ms

# Below is generated by plot.py at 2019-01-03 11:36:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.63 Mbit/s

95th percentile per-packet one-way delay: 13.404 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 58.91 Mbit/s

95th percentile per-packet one-way delay: 13.176 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 40.52 Mbit/s

95th percentile per-packet one-way delay: 13.965 ms

Loss rate: 0.22%

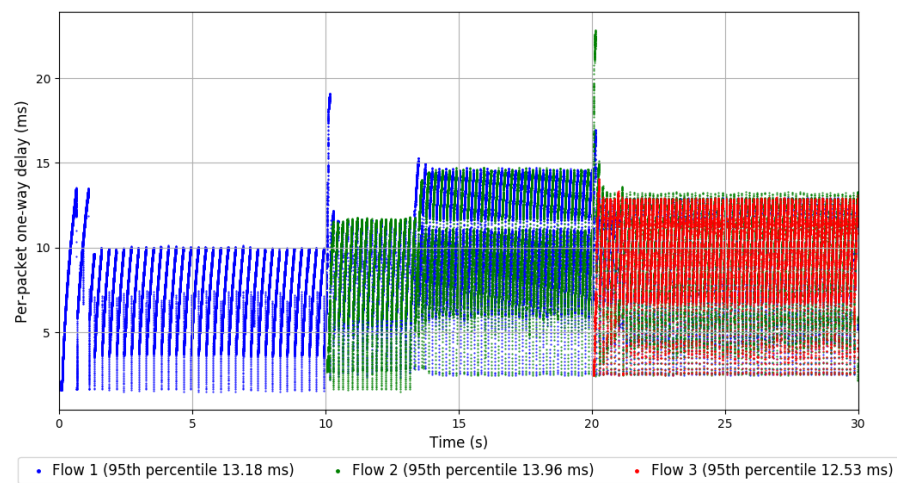
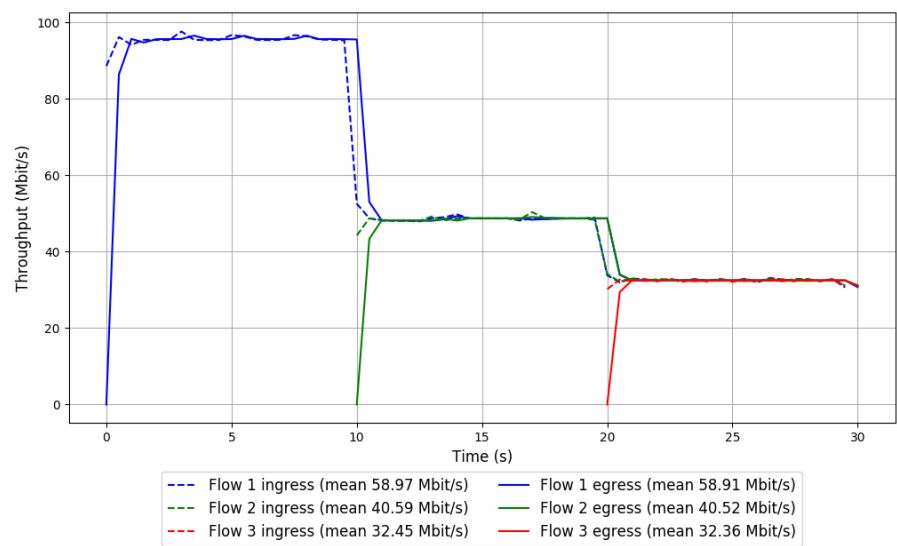
-- Flow 3:

Average throughput: 32.36 Mbit/s

95th percentile per-packet one-way delay: 12.525 ms

Loss rate: 0.34%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-01-03 10:36:03

End at: 2019-01-03 10:36:33

Local clock offset: -7.848 ms

Remote clock offset: 0.759 ms

# Below is generated by plot.py at 2019-01-03 11:36:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.60 Mbit/s

95th percentile per-packet one-way delay: 13.627 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 58.71 Mbit/s

95th percentile per-packet one-way delay: 13.086 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 40.62 Mbit/s

95th percentile per-packet one-way delay: 14.061 ms

Loss rate: 0.25%

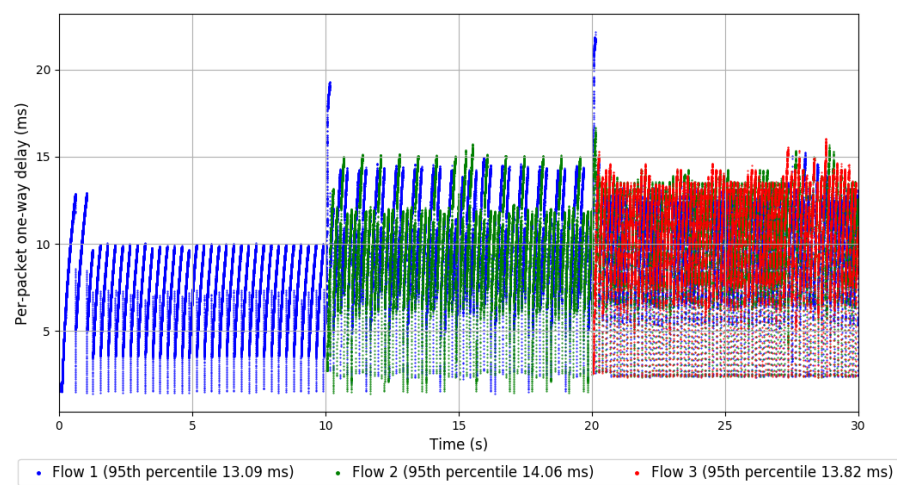
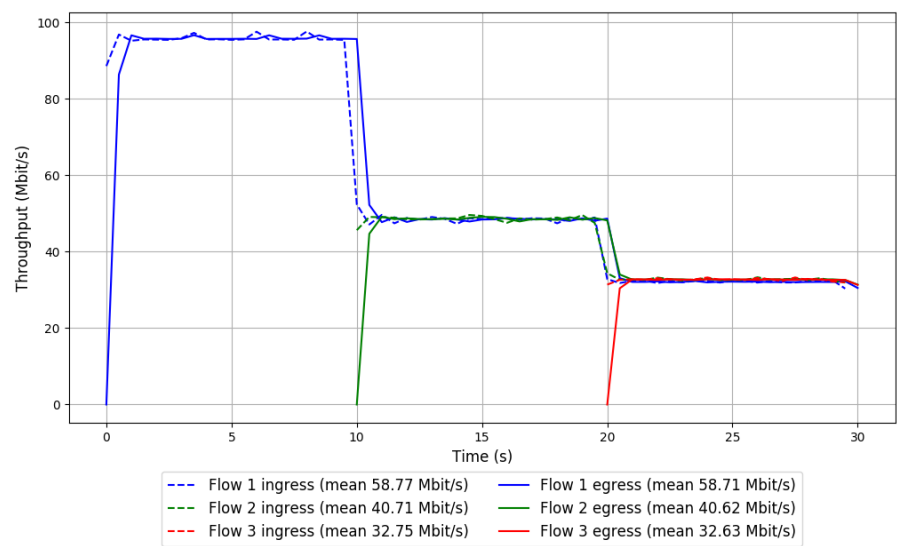
-- Flow 3:

Average throughput: 32.63 Mbit/s

95th percentile per-packet one-way delay: 13.821 ms

Loss rate: 0.39%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-01-03 10:58:02

End at: 2019-01-03 10:58:32

Local clock offset: -7.796 ms

Remote clock offset: 0.81 ms

# Below is generated by plot.py at 2019-01-03 11:37:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.61 Mbit/s

95th percentile per-packet one-way delay: 13.595 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 58.74 Mbit/s

95th percentile per-packet one-way delay: 13.114 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 40.58 Mbit/s

95th percentile per-packet one-way delay: 14.023 ms

Loss rate: 0.24%

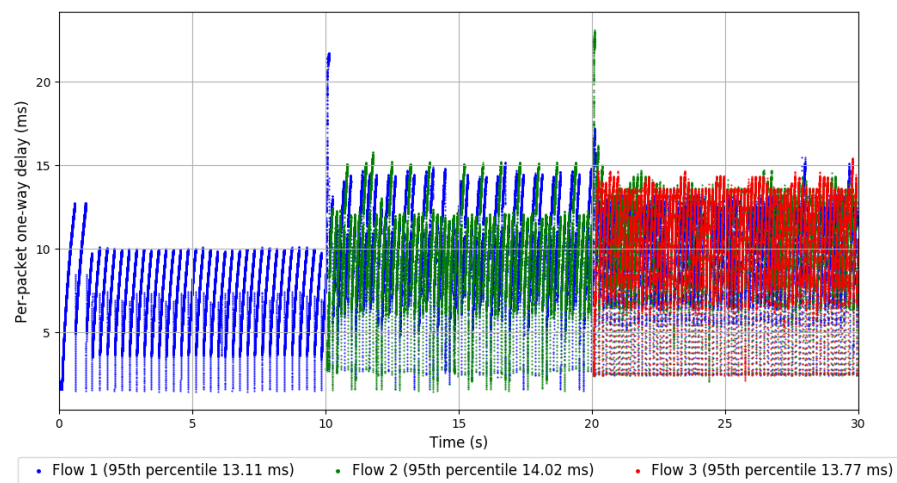
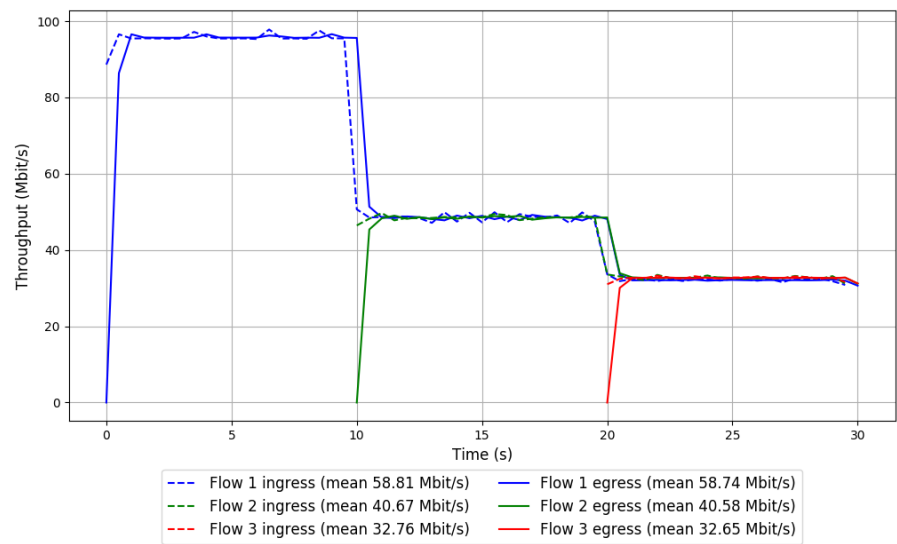
-- Flow 3:

Average throughput: 32.65 Mbit/s

95th percentile per-packet one-way delay: 13.766 ms

Loss rate: 0.39%

Run 4: Report of LEDBAT — Data Link





Run 5: Statistics of LEDBAT

Start at: 2019-01-03 11:20:01

End at: 2019-01-03 11:20:31

Local clock offset: -7.156 ms

Remote clock offset: 0.852 ms

# Below is generated by plot.py at 2019-01-03 11:37:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.77 Mbit/s

95th percentile per-packet one-way delay: 14.186 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 59.17 Mbit/s

95th percentile per-packet one-way delay: 13.894 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 40.16 Mbit/s

95th percentile per-packet one-way delay: 14.360 ms

Loss rate: 0.22%

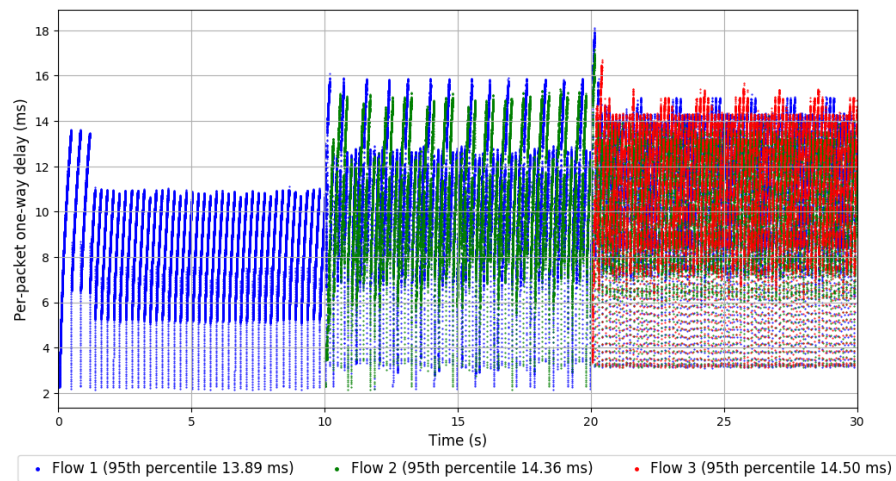
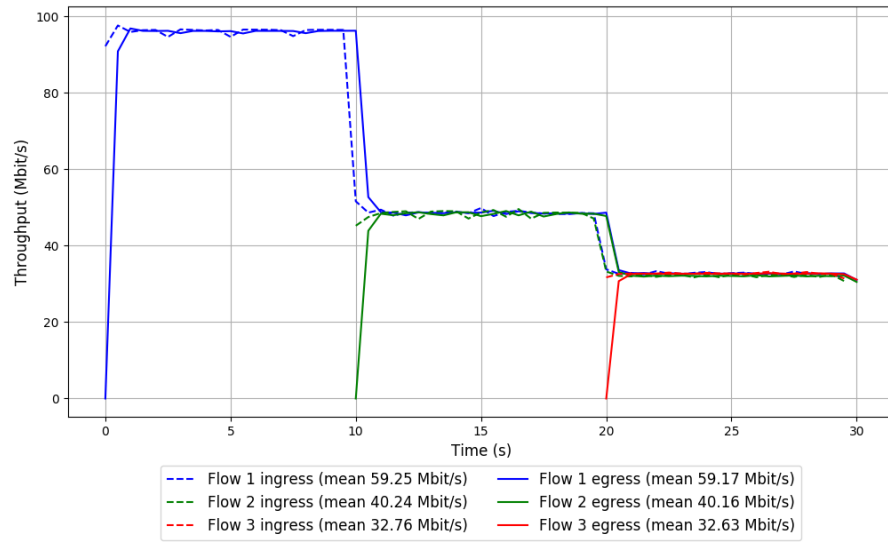
-- Flow 3:

Average throughput: 32.63 Mbit/s

95th percentile per-packet one-way delay: 14.496 ms

Loss rate: 0.42%

## Run 5: Report of LEDBAT — Data Link

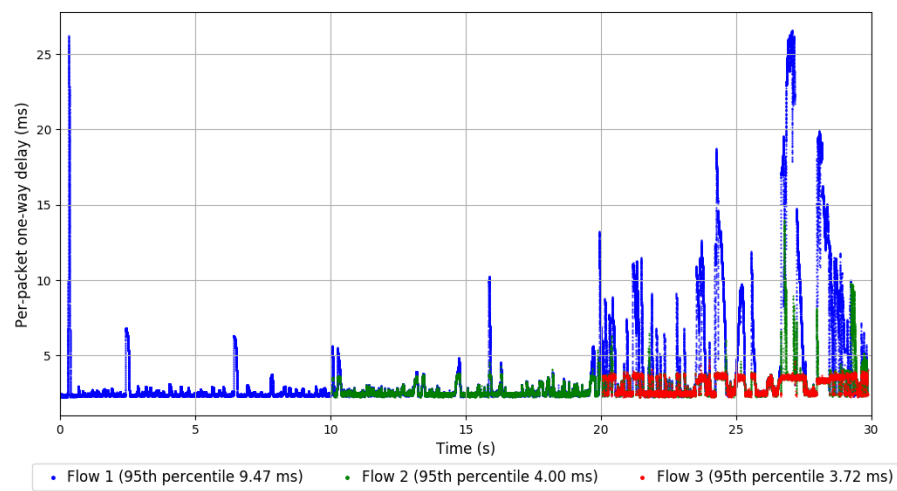
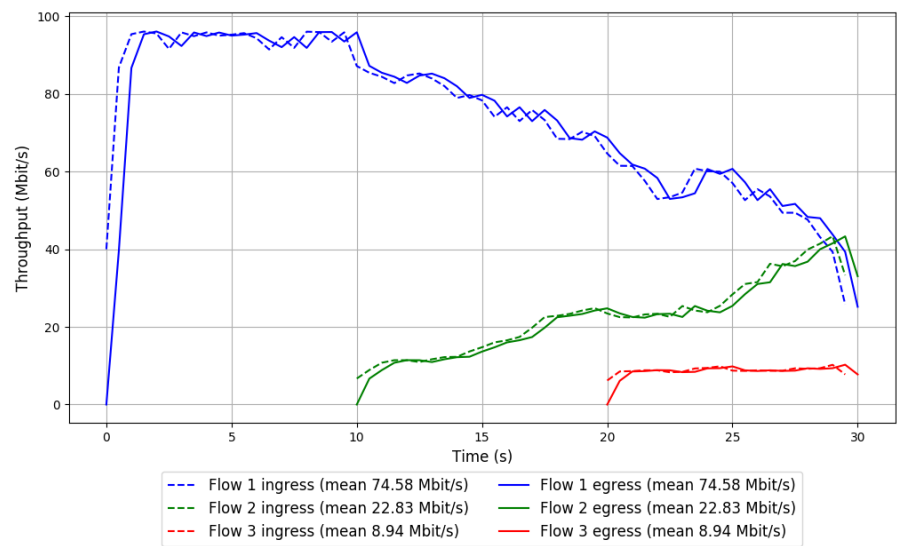


Run 1: Statistics of PCC-Allegro

Start at: 2019-01-03 09:42:56  
End at: 2019-01-03 09:43:26  
Local clock offset: -5.905 ms  
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2019-01-03 11:37:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.67 Mbit/s  
95th percentile per-packet one-way delay: 8.438 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 74.58 Mbit/s  
95th percentile per-packet one-way delay: 9.469 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 22.83 Mbit/s  
95th percentile per-packet one-way delay: 4.002 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 8.94 Mbit/s  
95th percentile per-packet one-way delay: 3.721 ms  
Loss rate: 0.03%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-01-03 10:04:51

End at: 2019-01-03 10:05:21

Local clock offset: -6.91 ms

Remote clock offset: 0.309 ms

# Below is generated by plot.py at 2019-01-03 11:37:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.60 Mbit/s

95th percentile per-packet one-way delay: 1661.861 ms

Loss rate: 14.34%

-- Flow 1:

Average throughput: 61.91 Mbit/s

95th percentile per-packet one-way delay: 1938.977 ms

Loss rate: 16.68%

-- Flow 2:

Average throughput: 34.81 Mbit/s

95th percentile per-packet one-way delay: 1375.356 ms

Loss rate: 12.85%

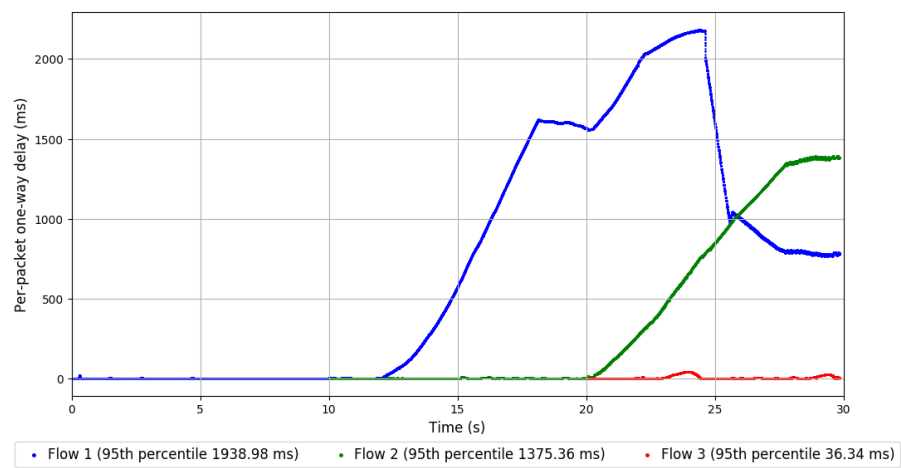
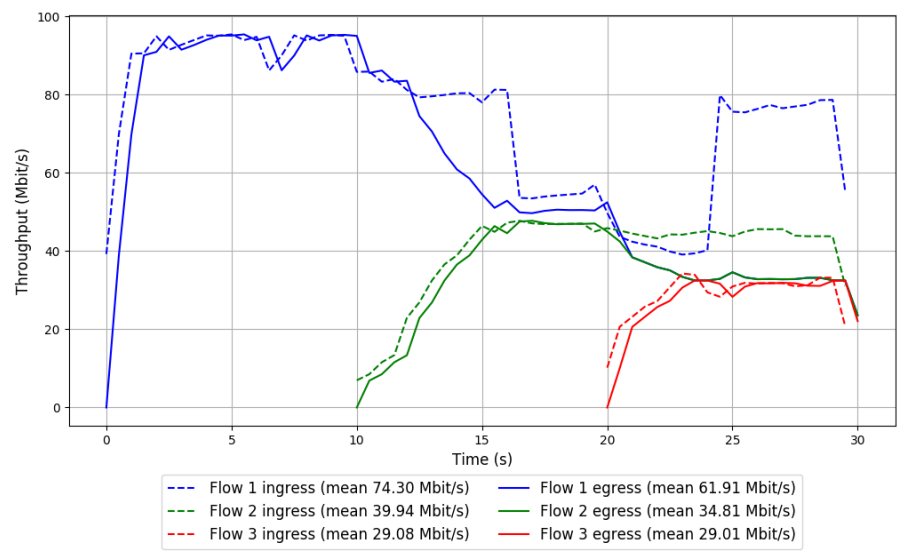
-- Flow 3:

Average throughput: 29.01 Mbit/s

95th percentile per-packet one-way delay: 36.345 ms

Loss rate: 0.28%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-01-03 10:26:50

End at: 2019-01-03 10:27:20

Local clock offset: -8.124 ms

Remote clock offset: 0.557 ms

# Below is generated by plot.py at 2019-01-03 11:37:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.37 Mbit/s

95th percentile per-packet one-way delay: 68.108 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 73.49 Mbit/s

95th percentile per-packet one-way delay: 89.156 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 27.60 Mbit/s

95th percentile per-packet one-way delay: 7.146 ms

Loss rate: 0.03%

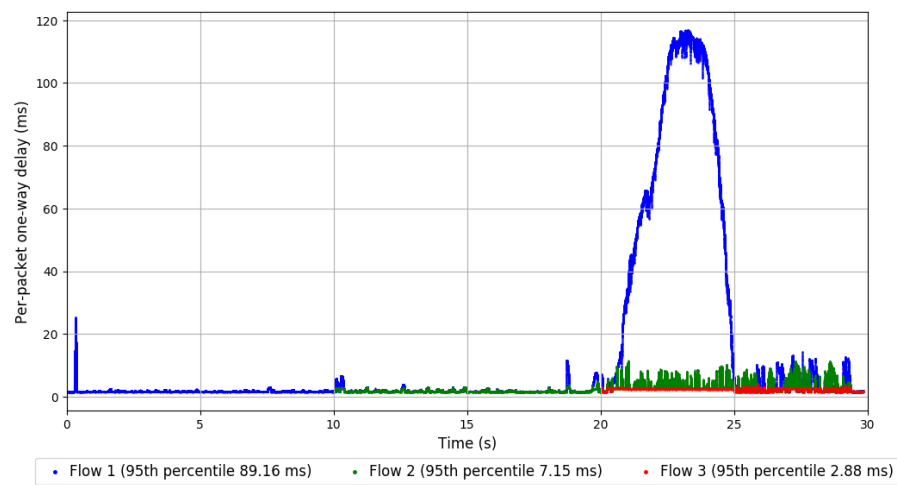
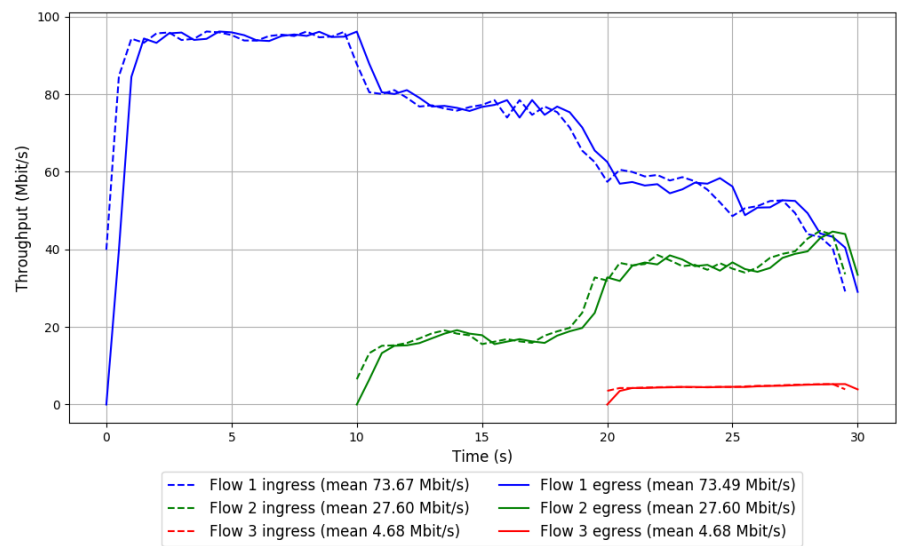
-- Flow 3:

Average throughput: 4.68 Mbit/s

95th percentile per-packet one-way delay: 2.883 ms

Loss rate: 0.05%

Run 3: Report of PCC-Allegro — Data Link





Run 4: Statistics of PCC-Allegro

Start at: 2019-01-03 10:48:48

End at: 2019-01-03 10:49:18

Local clock offset: -7.771 ms

Remote clock offset: 0.721 ms

# Below is generated by plot.py at 2019-01-03 11:37:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.03 Mbit/s

95th percentile per-packet one-way delay: 1642.296 ms

Loss rate: 9.22%

-- Flow 1:

Average throughput: 60.59 Mbit/s

95th percentile per-packet one-way delay: 1931.450 ms

Loss rate: 10.39%

-- Flow 2:

Average throughput: 35.38 Mbit/s

95th percentile per-packet one-way delay: 978.261 ms

Loss rate: 9.32%

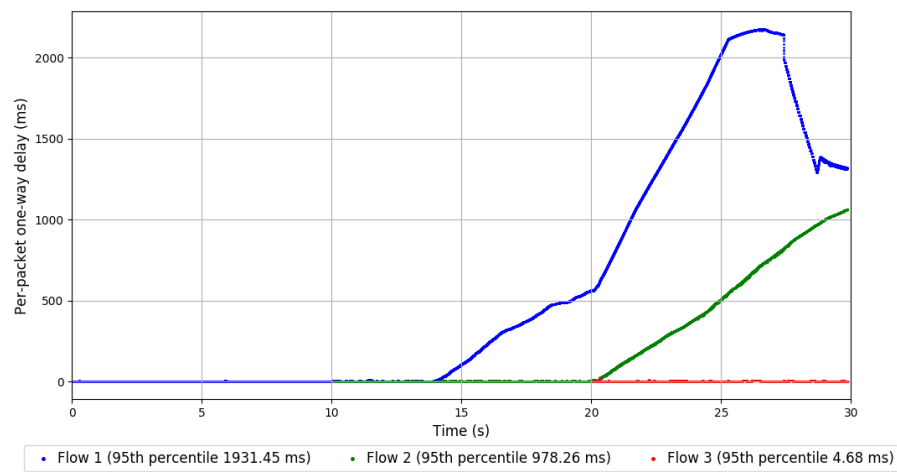
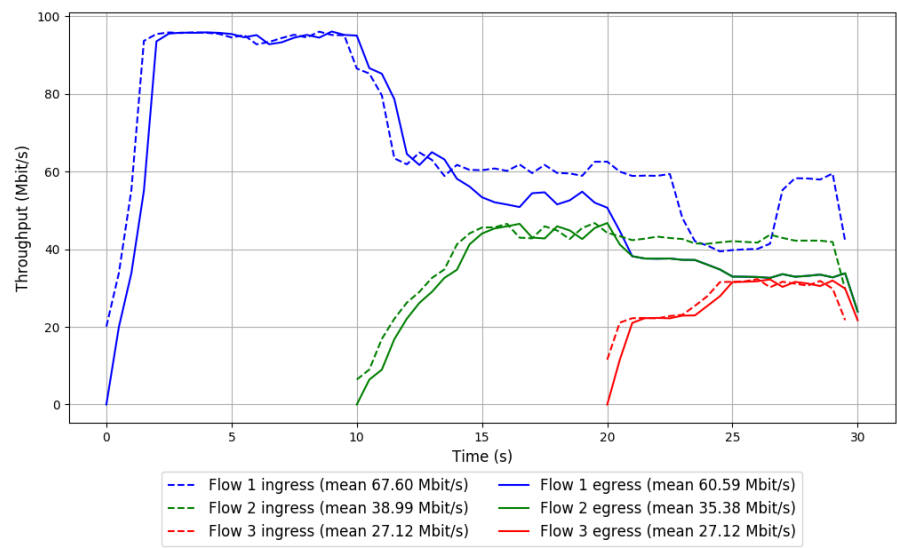
-- Flow 3:

Average throughput: 27.12 Mbit/s

95th percentile per-packet one-way delay: 4.685 ms

Loss rate: 0.04%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-01-03 11:10:47

End at: 2019-01-03 11:11:17

Local clock offset: -7.011 ms

Remote clock offset: 0.726 ms

# Below is generated by plot.py at 2019-01-03 11:37:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.12 Mbit/s

95th percentile per-packet one-way delay: 458.222 ms

Loss rate: 2.31%

-- Flow 1:

Average throughput: 69.33 Mbit/s

95th percentile per-packet one-way delay: 574.156 ms

Loss rate: 3.07%

-- Flow 2:

Average throughput: 24.68 Mbit/s

95th percentile per-packet one-way delay: 9.291 ms

Loss rate: 0.03%

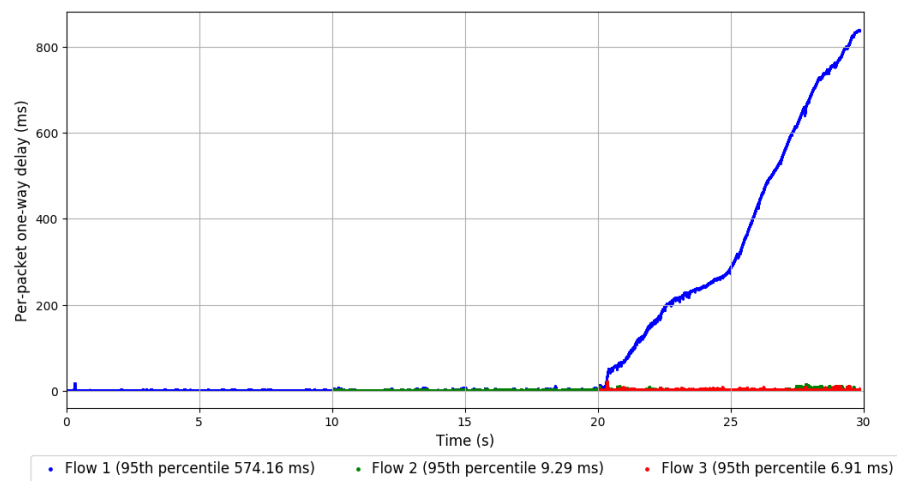
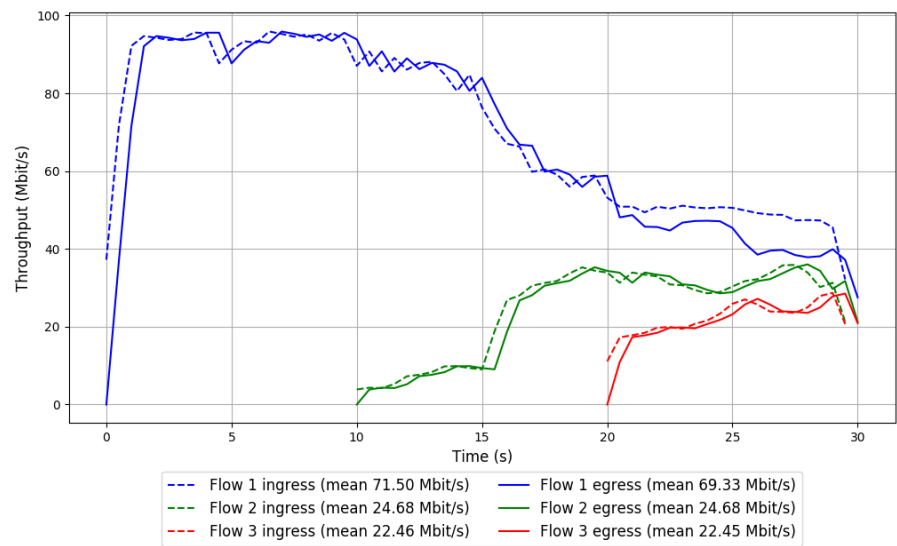
-- Flow 3:

Average throughput: 22.45 Mbit/s

95th percentile per-packet one-way delay: 6.908 ms

Loss rate: 0.04%

Run 5: Report of PCC-Allegro — Data Link

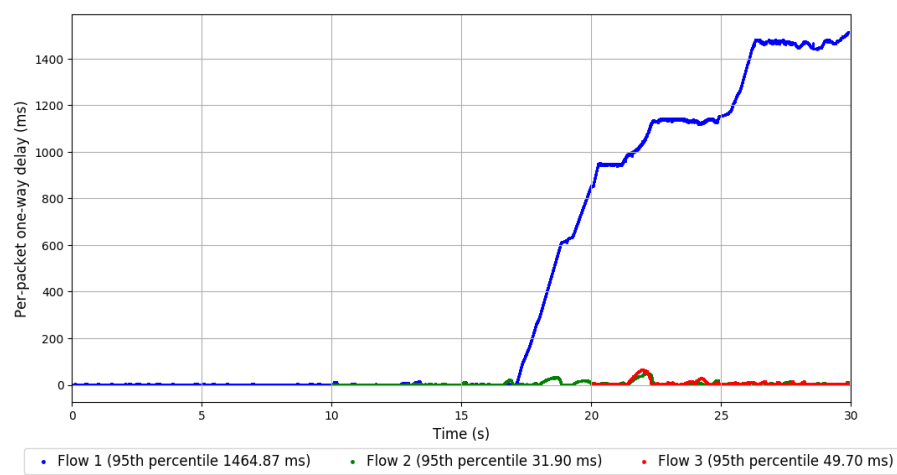
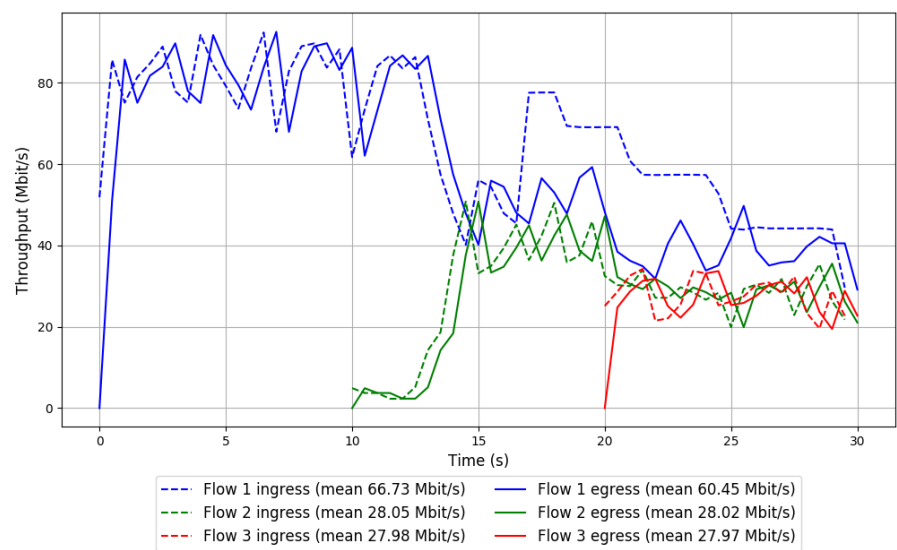


Run 1: Statistics of PCC-Expr

Start at: 2019-01-03 09:44:04  
End at: 2019-01-03 09:44:34  
Local clock offset: -5.989 ms  
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2019-01-03 11:38:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.32 Mbit/s  
95th percentile per-packet one-way delay: 1442.291 ms  
Loss rate: 6.67%  
-- Flow 1:  
Average throughput: 60.45 Mbit/s  
95th percentile per-packet one-way delay: 1464.870 ms  
Loss rate: 9.41%  
-- Flow 2:  
Average throughput: 28.02 Mbit/s  
95th percentile per-packet one-way delay: 31.897 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 27.97 Mbit/s  
95th percentile per-packet one-way delay: 49.700 ms  
Loss rate: 0.07%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-01-03 10:06:01

End at: 2019-01-03 10:06:31

Local clock offset: -7.715 ms

Remote clock offset: 0.147 ms

# Below is generated by plot.py at 2019-01-03 11:39:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.60 Mbit/s

95th percentile per-packet one-way delay: 1143.202 ms

Loss rate: 7.28%

-- Flow 1:

Average throughput: 51.22 Mbit/s

95th percentile per-packet one-way delay: 28.452 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 35.35 Mbit/s

95th percentile per-packet one-way delay: 1195.786 ms

Loss rate: 19.49%

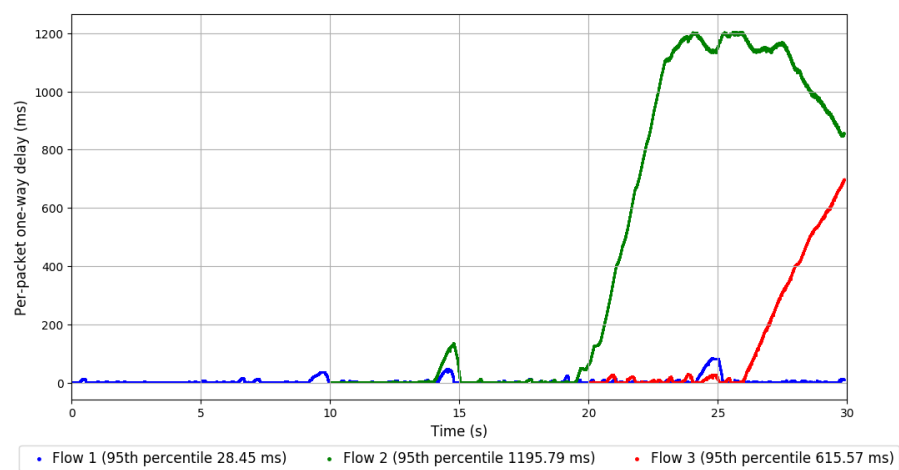
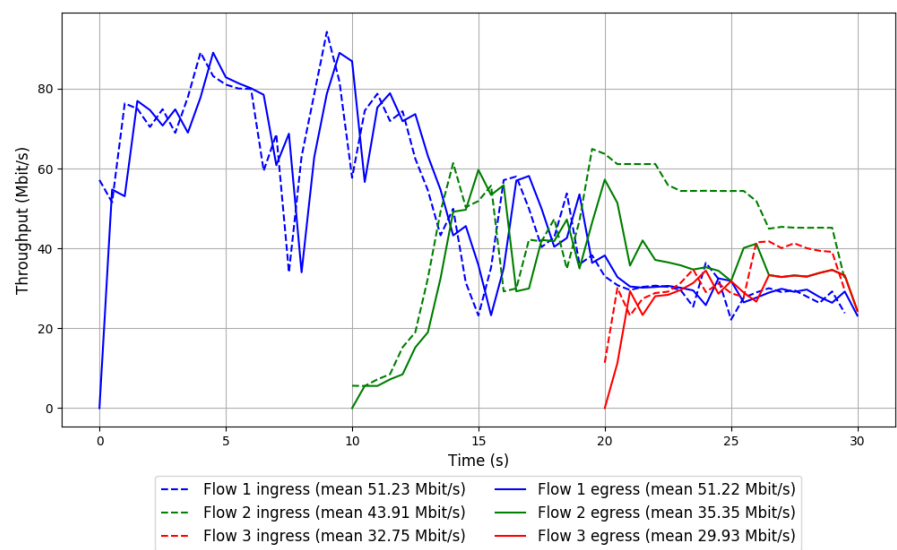
-- Flow 3:

Average throughput: 29.93 Mbit/s

95th percentile per-packet one-way delay: 615.567 ms

Loss rate: 8.62%

Run 2: Report of PCC-Expr — Data Link





Run 3: Statistics of PCC-Expr

Start at: 2019-01-03 10:27:58

End at: 2019-01-03 10:28:28

Local clock offset: -8.111 ms

Remote clock offset: 0.643 ms

# Below is generated by plot.py at 2019-01-03 11:39:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.83 Mbit/s

95th percentile per-packet one-way delay: 753.650 ms

Loss rate: 27.55%

-- Flow 1:

Average throughput: 54.21 Mbit/s

95th percentile per-packet one-way delay: 762.930 ms

Loss rate: 37.90%

-- Flow 2:

Average throughput: 37.03 Mbit/s

95th percentile per-packet one-way delay: 212.500 ms

Loss rate: 1.21%

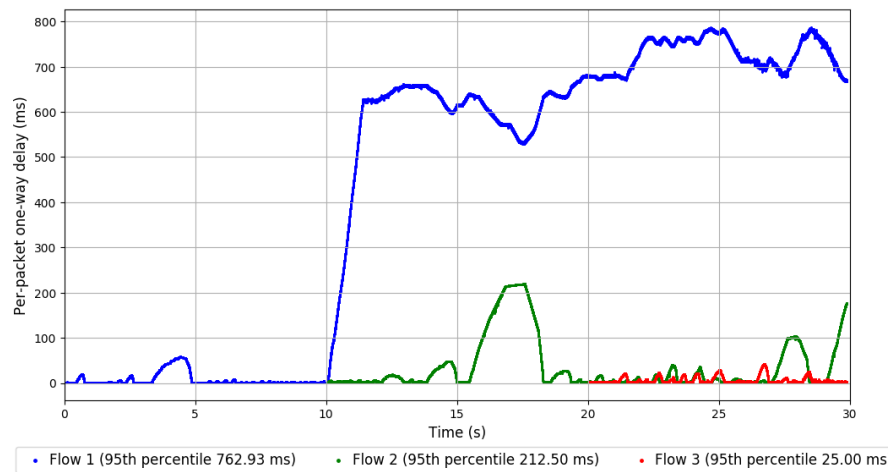
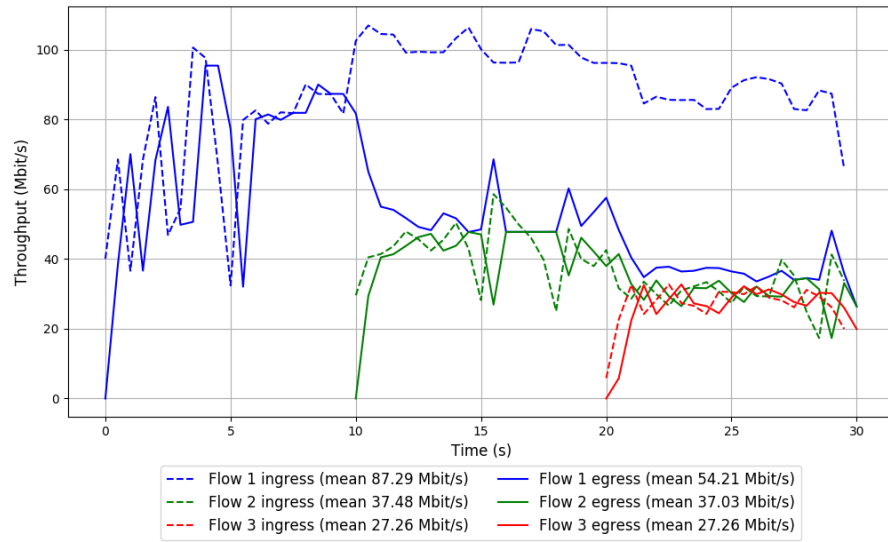
-- Flow 3:

Average throughput: 27.26 Mbit/s

95th percentile per-packet one-way delay: 25.004 ms

Loss rate: 0.05%

### Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-01-03 10:49:57

End at: 2019-01-03 10:50:27

Local clock offset: -7.04 ms

Remote clock offset: 0.695 ms

# Below is generated by plot.py at 2019-01-03 11:39:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.43 Mbit/s

95th percentile per-packet one-way delay: 919.412 ms

Loss rate: 17.61%

-- Flow 1:

Average throughput: 63.53 Mbit/s

95th percentile per-packet one-way delay: 939.840 ms

Loss rate: 23.49%

-- Flow 2:

Average throughput: 40.67 Mbit/s

95th percentile per-packet one-way delay: 86.559 ms

Loss rate: 0.16%

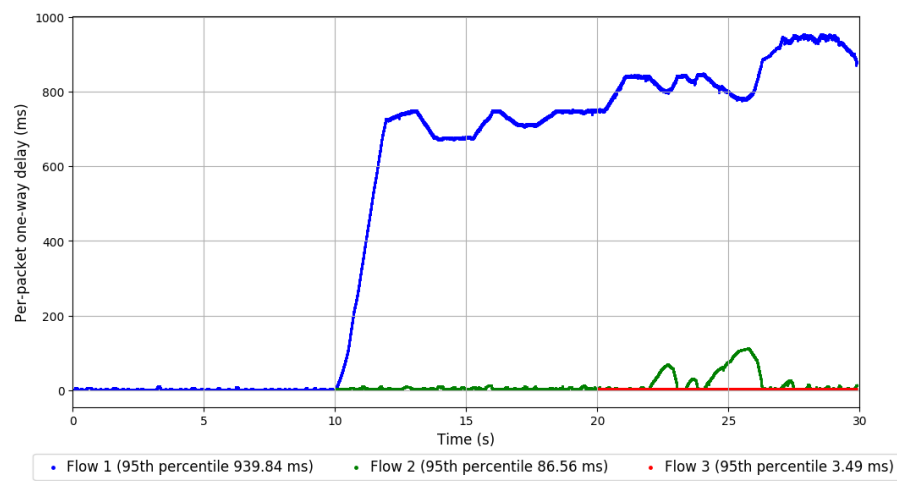
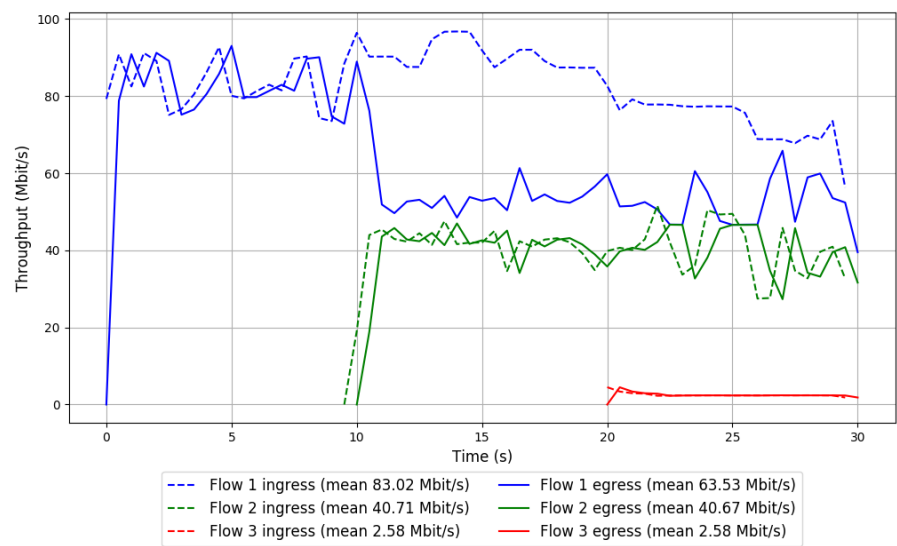
-- Flow 3:

Average throughput: 2.58 Mbit/s

95th percentile per-packet one-way delay: 3.488 ms

Loss rate: 0.05%

Run 4: Report of PCC-Expr — Data Link

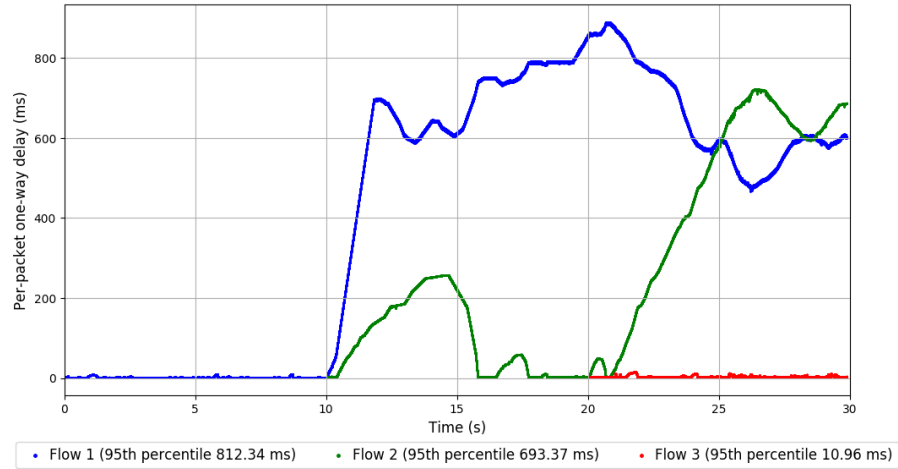
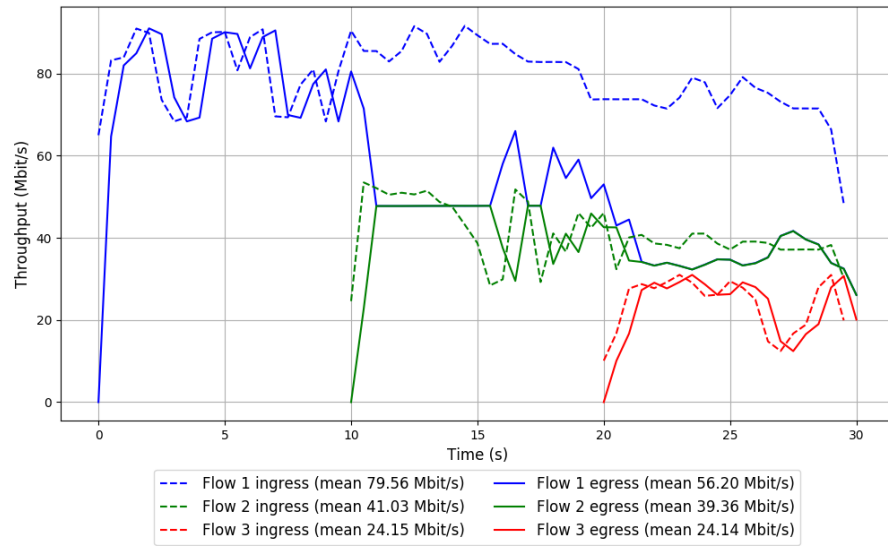


```
Run 5: Statistics of PCC-Expr

Start at: 2019-01-03 11:11:56
End at: 2019-01-03 11:12:26
Local clock offset: -7.838 ms
Remote clock offset: 0.725 ms

# Below is generated by plot.py at 2019-01-03 11:39:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.33 Mbit/s
95th percentile per-packet one-way delay: 789.974 ms
Loss rate: 21.34%
-- Flow 1:
Average throughput: 56.20 Mbit/s
95th percentile per-packet one-way delay: 812.342 ms
Loss rate: 29.38%
-- Flow 2:
Average throughput: 39.36 Mbit/s
95th percentile per-packet one-way delay: 693.373 ms
Loss rate: 4.14%
-- Flow 3:
Average throughput: 24.14 Mbit/s
95th percentile per-packet one-way delay: 10.961 ms
Loss rate: 0.05%
```

# Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-01-03 09:48:43

End at: 2019-01-03 09:49:13

Local clock offset: -6.277 ms

Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2019-01-03 11:39:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.20 Mbit/s

95th percentile per-packet one-way delay: 13.517 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 54.22 Mbit/s

95th percentile per-packet one-way delay: 13.622 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 40.18 Mbit/s

95th percentile per-packet one-way delay: 13.445 ms

Loss rate: 0.35%

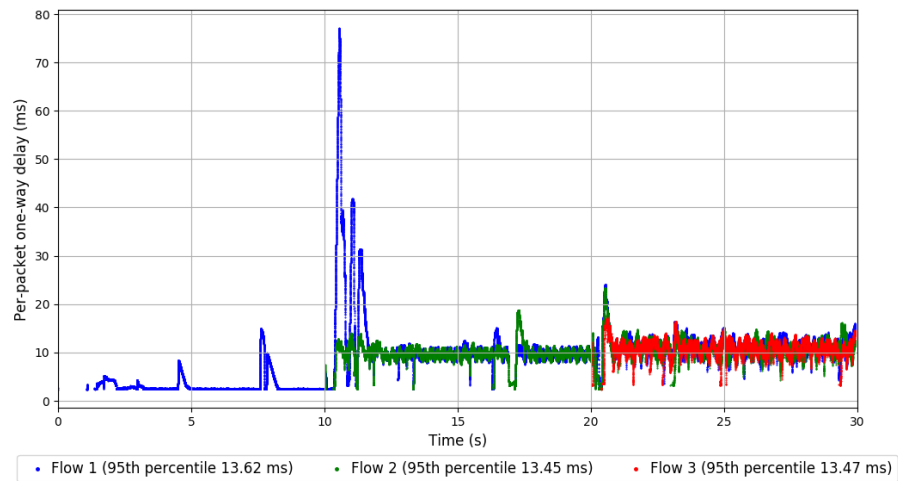
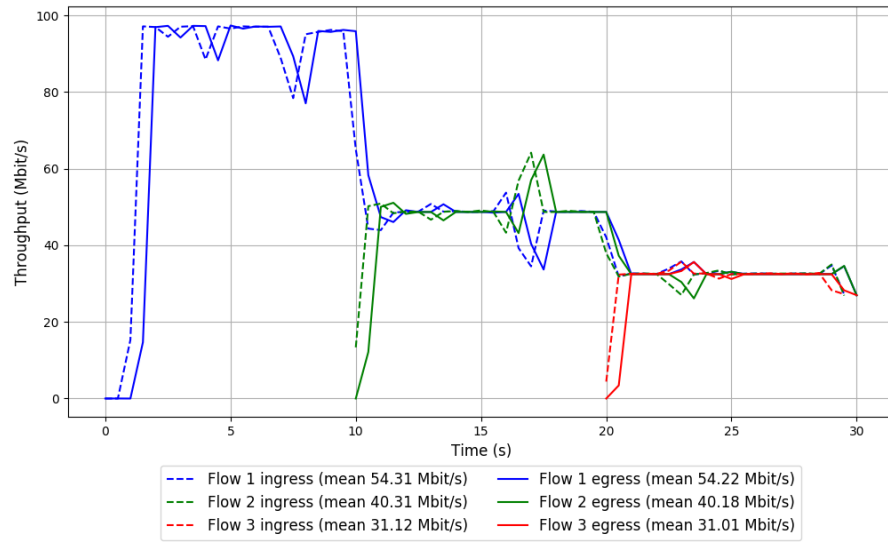
-- Flow 3:

Average throughput: 31.01 Mbit/s

95th percentile per-packet one-way delay: 13.471 ms

Loss rate: 0.47%

## Run 1: Report of QUIC Cubic — Data Link





Run 2: Statistics of QUIC Cubic

Start at: 2019-01-03 10:10:41

End at: 2019-01-03 10:11:11

Local clock offset: -7.951 ms

Remote clock offset: 0.344 ms

# Below is generated by plot.py at 2019-01-03 11:39:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.54 Mbit/s

95th percentile per-packet one-way delay: 12.470 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 53.54 Mbit/s

95th percentile per-packet one-way delay: 12.084 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 40.15 Mbit/s

95th percentile per-packet one-way delay: 12.620 ms

Loss rate: 0.34%

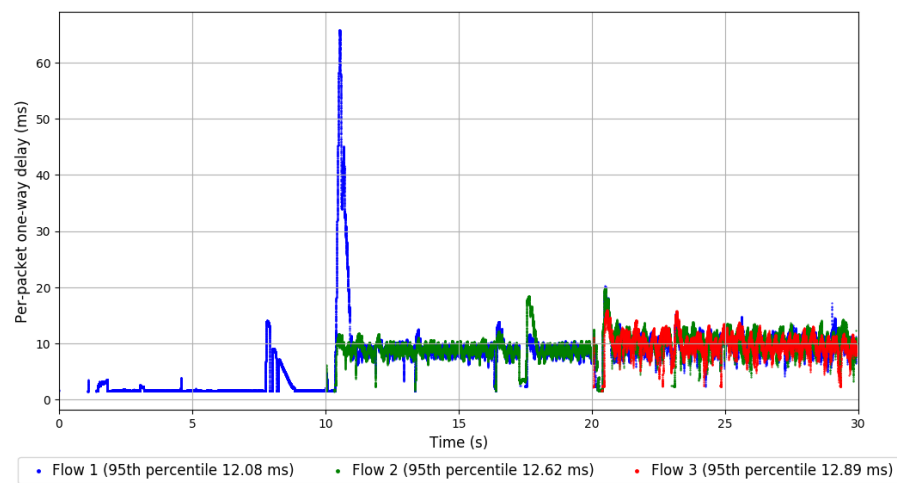
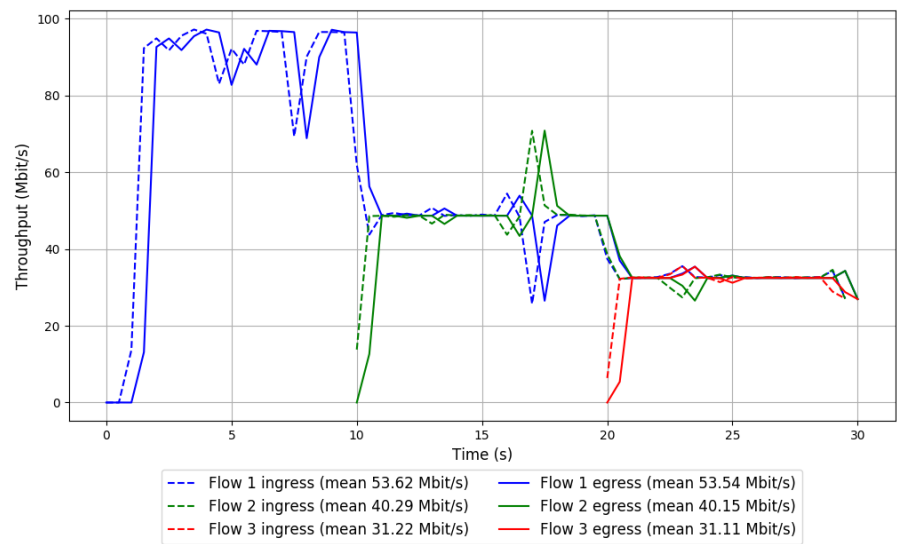
-- Flow 3:

Average throughput: 31.11 Mbit/s

95th percentile per-packet one-way delay: 12.889 ms

Loss rate: 0.46%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-01-03 10:32:40

End at: 2019-01-03 10:33:10

Local clock offset: -7.845 ms

Remote clock offset: 0.669 ms

# Below is generated by plot.py at 2019-01-03 11:39:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.69 Mbit/s

95th percentile per-packet one-way delay: 12.803 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 54.72 Mbit/s

95th percentile per-packet one-way delay: 12.479 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 40.16 Mbit/s

95th percentile per-packet one-way delay: 12.492 ms

Loss rate: 0.30%

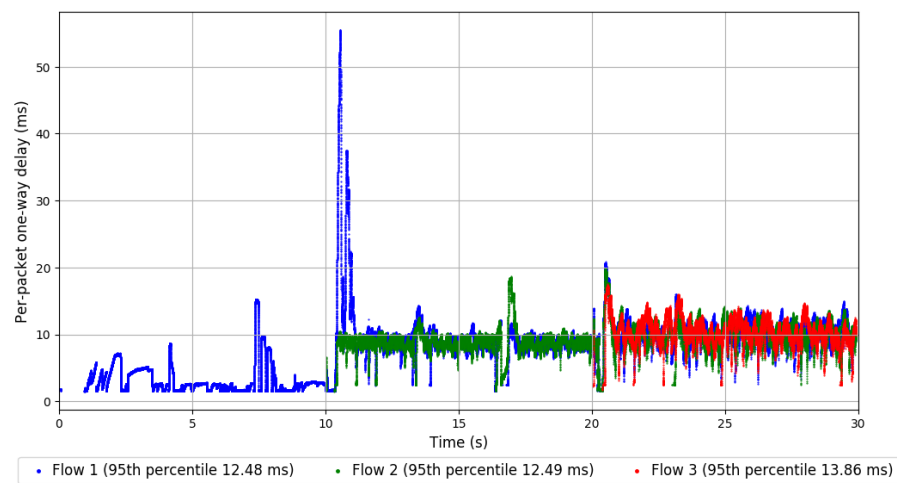
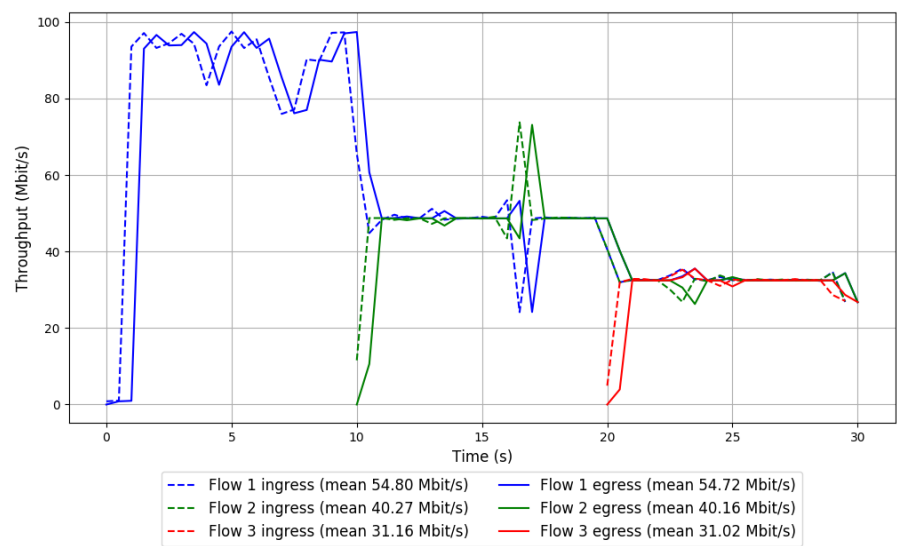
-- Flow 3:

Average throughput: 31.02 Mbit/s

95th percentile per-packet one-way delay: 13.864 ms

Loss rate: 0.50%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-01-03 10:54:38

End at: 2019-01-03 10:55:08

Local clock offset: -7.083 ms

Remote clock offset: 0.724 ms

# Below is generated by plot.py at 2019-01-03 11:39:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.89 Mbit/s

95th percentile per-packet one-way delay: 13.763 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 53.40 Mbit/s

95th percentile per-packet one-way delay: 13.153 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 40.94 Mbit/s

95th percentile per-packet one-way delay: 14.528 ms

Loss rate: 0.31%

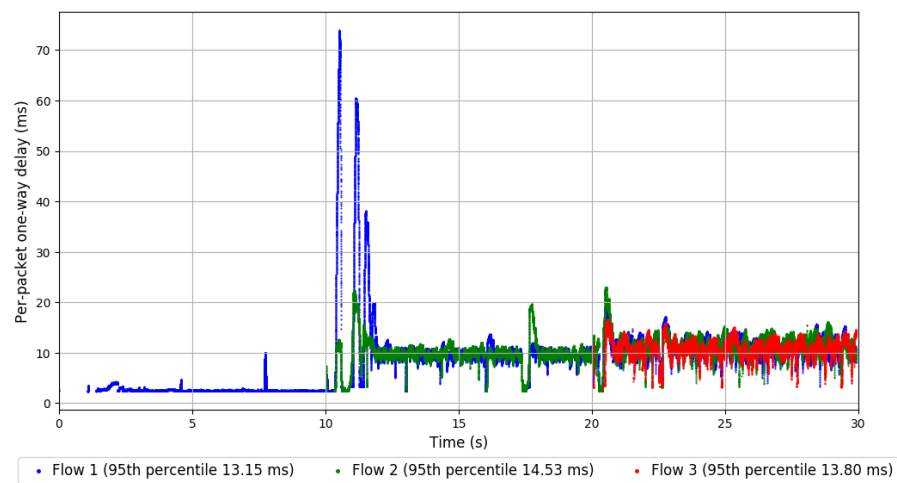
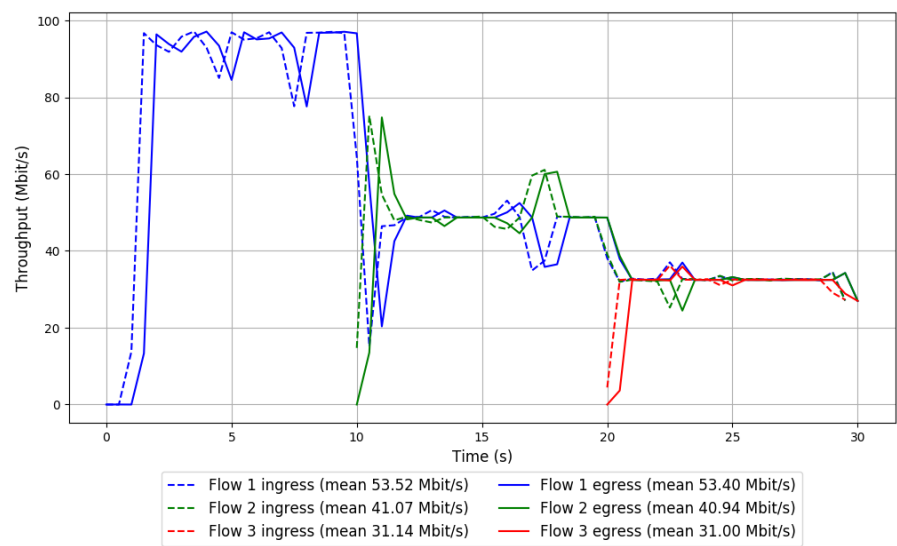
-- Flow 3:

Average throughput: 31.00 Mbit/s

95th percentile per-packet one-way delay: 13.803 ms

Loss rate: 0.50%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-01-03 11:16:37

End at: 2019-01-03 11:17:07

Local clock offset: -7.827 ms

Remote clock offset: 0.799 ms

# Below is generated by plot.py at 2019-01-03 11:39:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.79 Mbit/s

95th percentile per-packet one-way delay: 13.186 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 53.54 Mbit/s

95th percentile per-packet one-way delay: 13.036 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 40.51 Mbit/s

95th percentile per-packet one-way delay: 13.284 ms

Loss rate: 0.33%

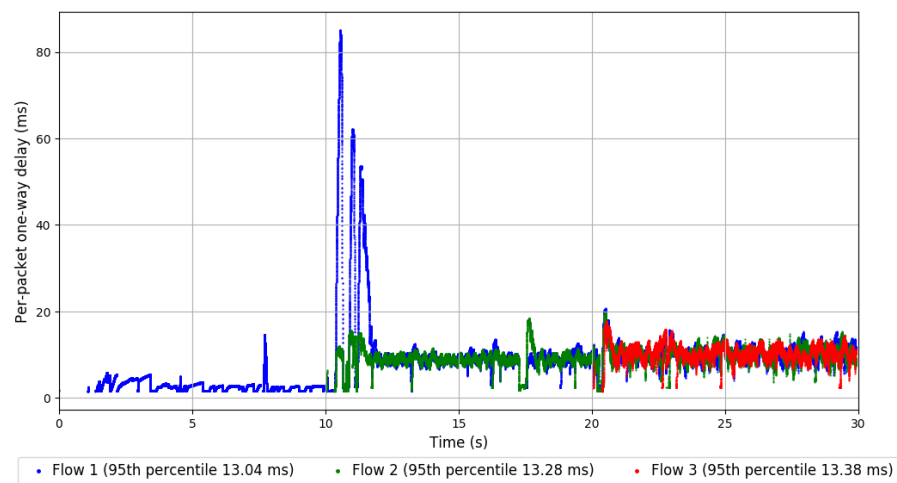
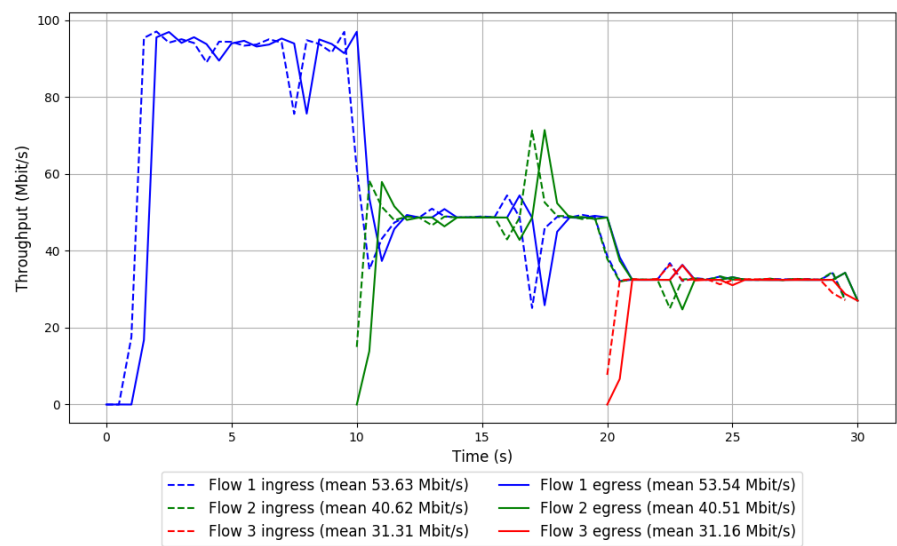
-- Flow 3:

Average throughput: 31.16 Mbit/s

95th percentile per-packet one-way delay: 13.380 ms

Loss rate: 0.52%

Run 5: Report of QUIC Cubic — Data Link



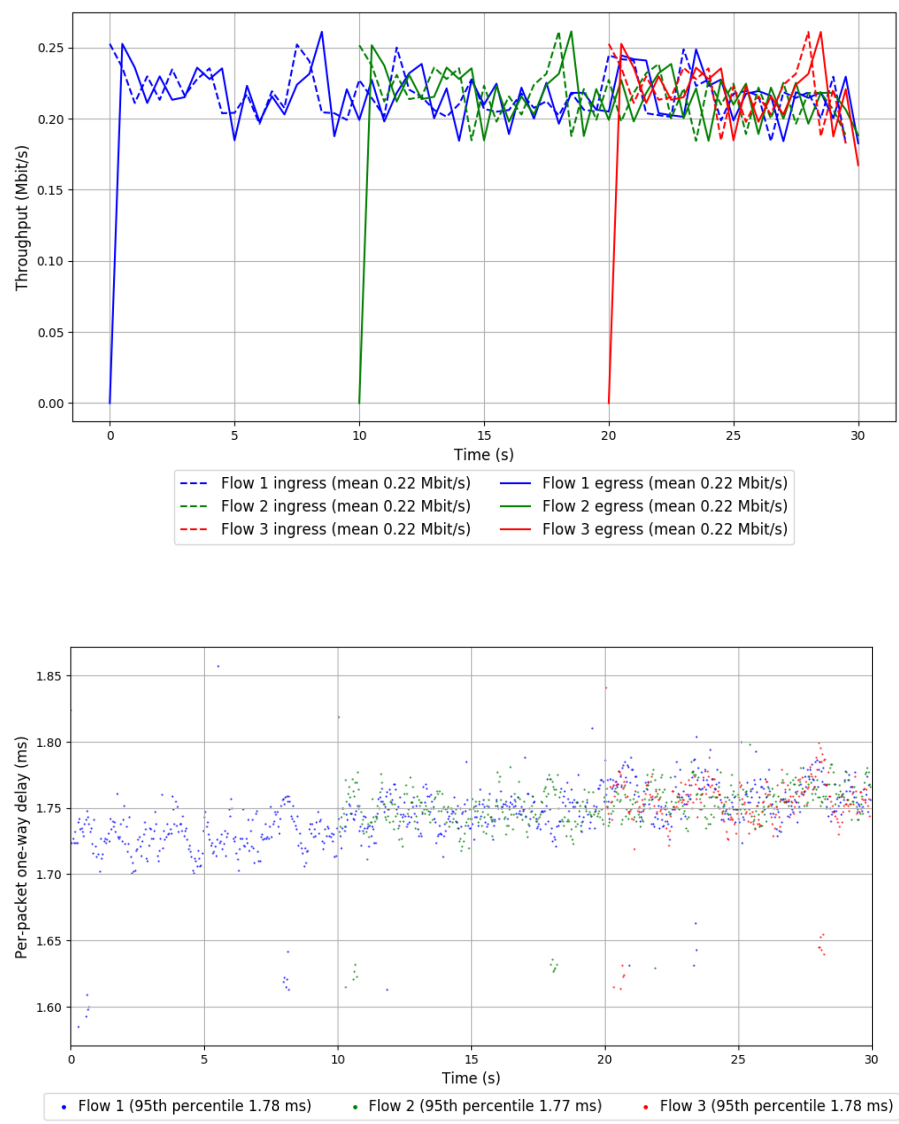


```
Run 1: Statistics of SReAM

Start at: 2019-01-03 09:46:26
End at: 2019-01-03 09:46:56
Local clock offset: -6.893 ms
Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2019-01-03 11:39:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.777 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.778 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.775 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.778 ms
Loss rate: 0.35%
```

Run 1: Report of SReAM — Data Link

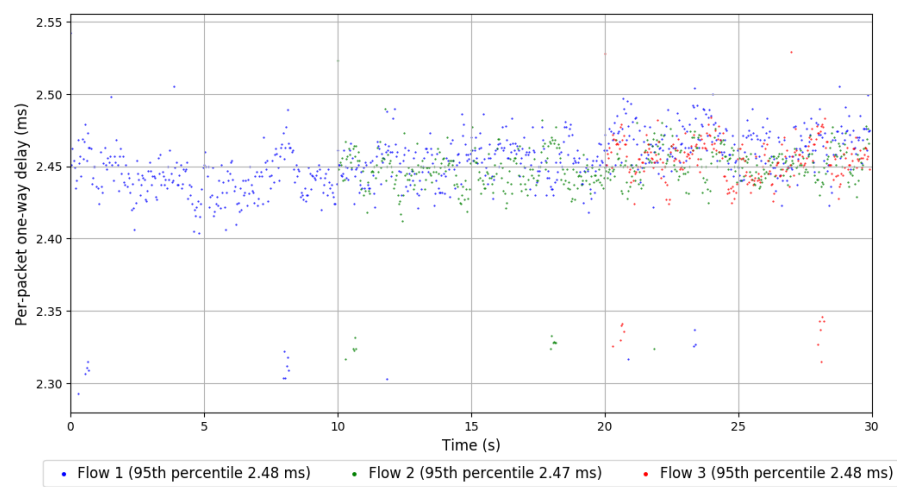
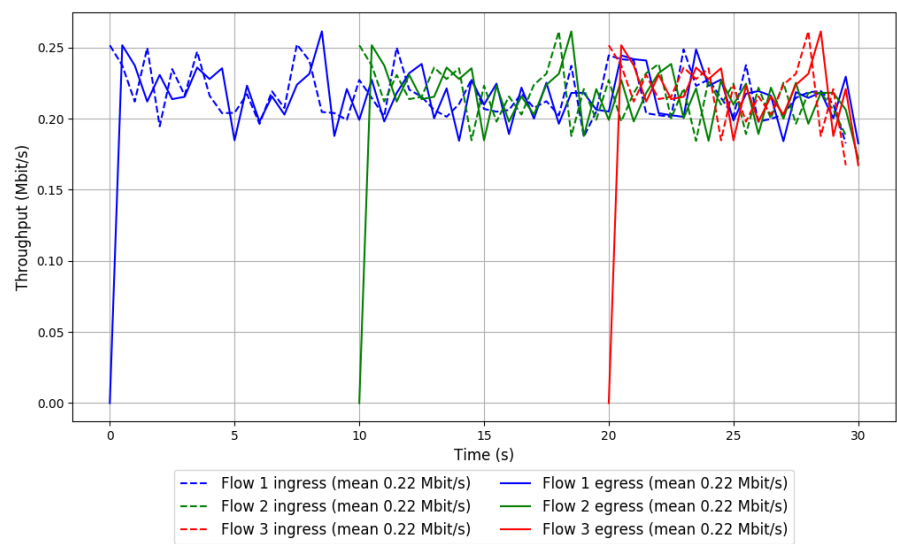


Run 2: Statistics of SReAM

Start at: 2019-01-03 10:08:23  
End at: 2019-01-03 10:08:53  
Local clock offset: -7.033 ms  
Remote clock offset: 0.29 ms

# Below is generated by plot.py at 2019-01-03 11:39:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 2.478 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.483 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.470 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.476 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

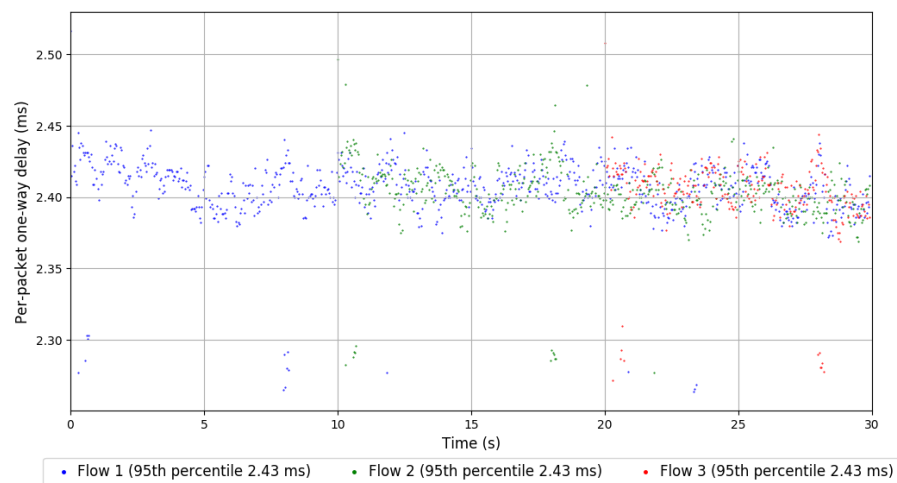
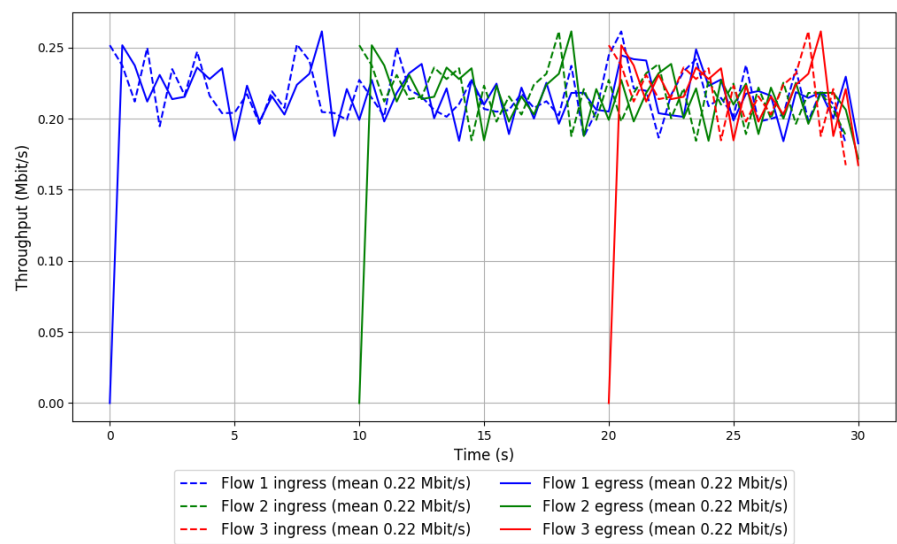


Run 3: Statistics of SReAM

Start at: 2019-01-03 10:30:22  
End at: 2019-01-03 10:30:52  
Local clock offset: -7.167 ms  
Remote clock offset: 0.59 ms

# Below is generated by plot.py at 2019-01-03 11:39:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 2.430 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.431 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.431 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.427 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2019-01-03 10:52:21

End at: 2019-01-03 10:52:51

Local clock offset: -7.065 ms

Remote clock offset: 0.731 ms

# Below is generated by plot.py at 2019-01-03 11:39:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.456 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.456 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.456 ms

Loss rate: 0.00%

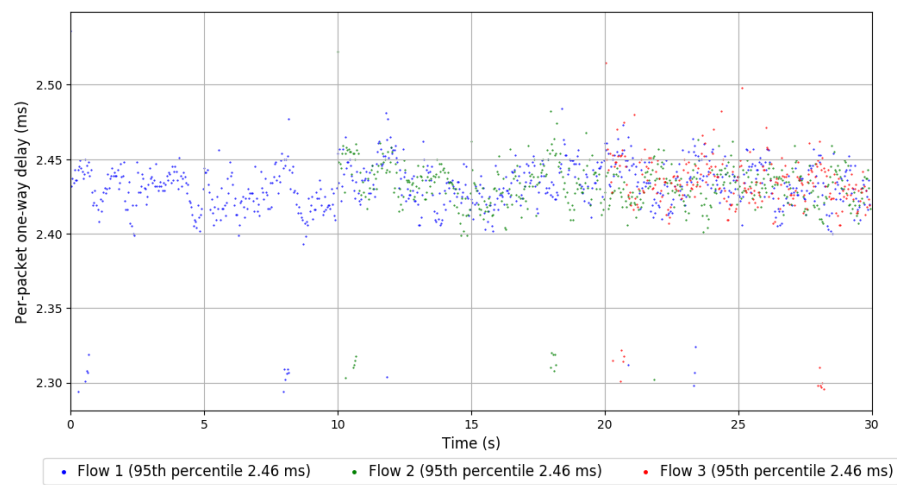
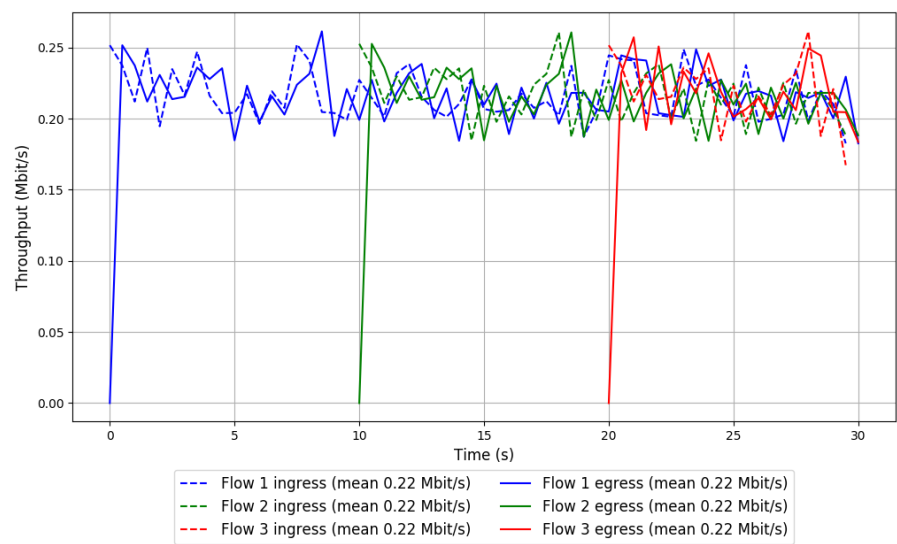
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.457 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



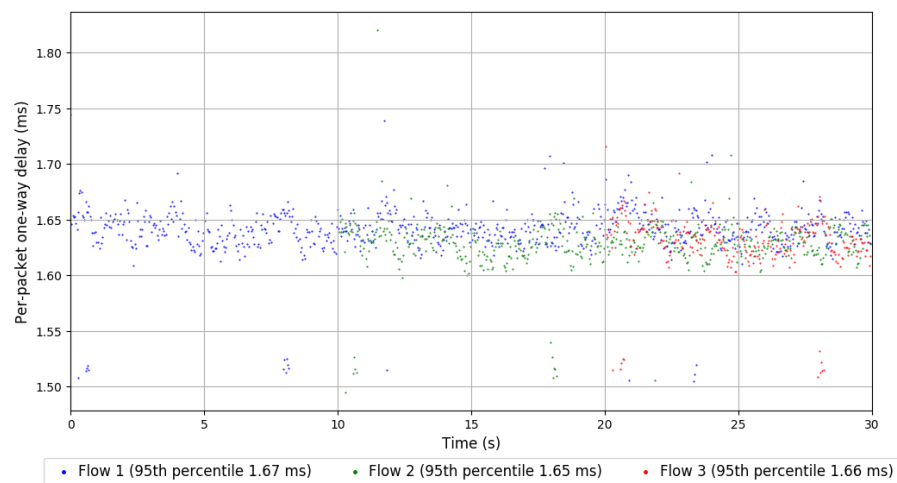
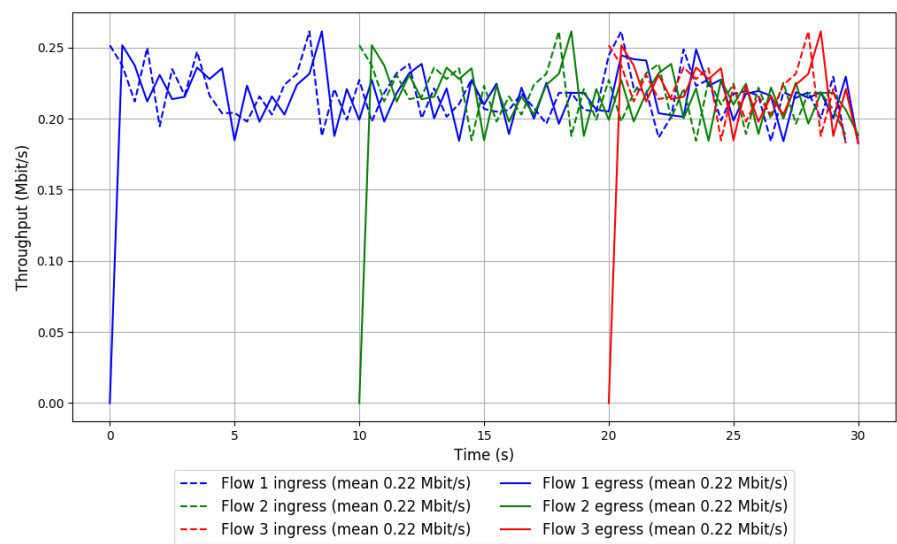


Run 5: Statistics of SReAM

Start at: 2019-01-03 11:14:20  
End at: 2019-01-03 11:14:50  
Local clock offset: -7.793 ms  
Remote clock offset: 0.788 ms

# Below is generated by plot.py at 2019-01-03 11:39:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 1.661 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.665 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.650 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.659 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-01-03 09:55:35

End at: 2019-01-03 09:56:05

Local clock offset: -6.574 ms

Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2019-01-03 11:39:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.59 Mbit/s

95th percentile per-packet one-way delay: 24.664 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 43.71 Mbit/s

95th percentile per-packet one-way delay: 23.539 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 39.46 Mbit/s

95th percentile per-packet one-way delay: 25.334 ms

Loss rate: 0.26%

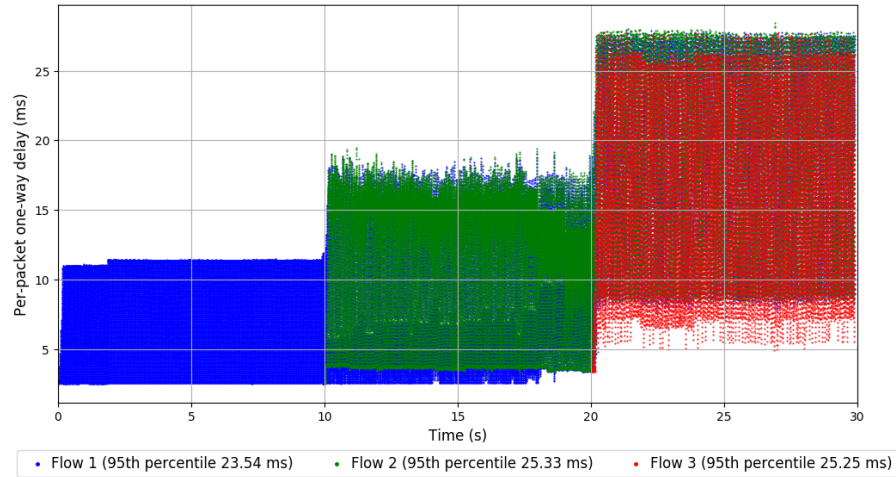
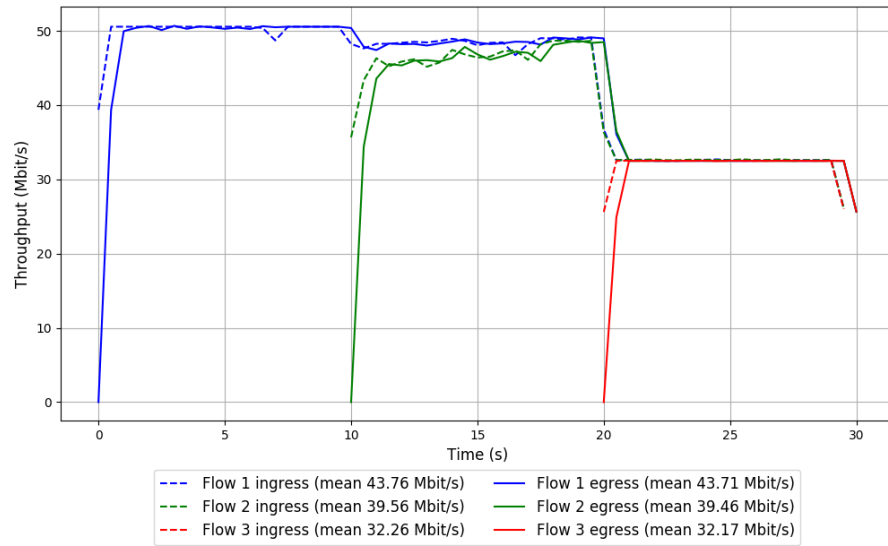
-- Flow 3:

Average throughput: 32.17 Mbit/s

95th percentile per-packet one-way delay: 25.246 ms

Loss rate: 0.16%

# Run 1: Report of Sprout — Data Link

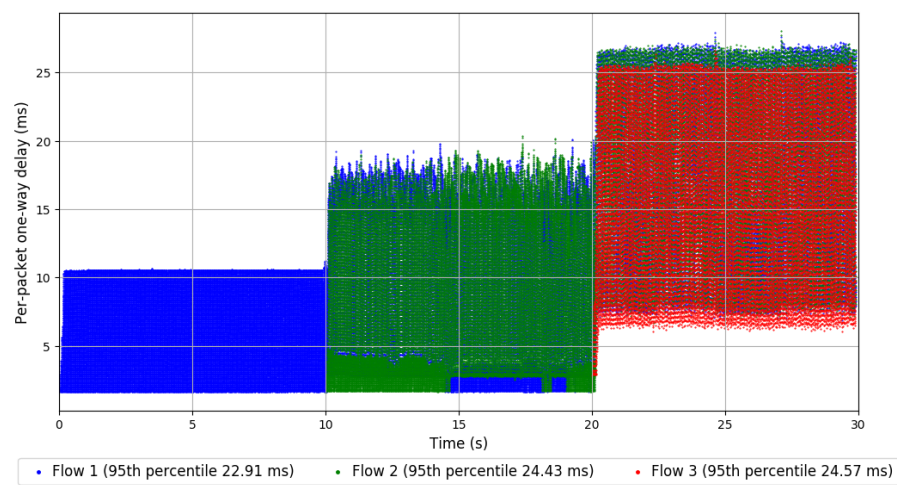
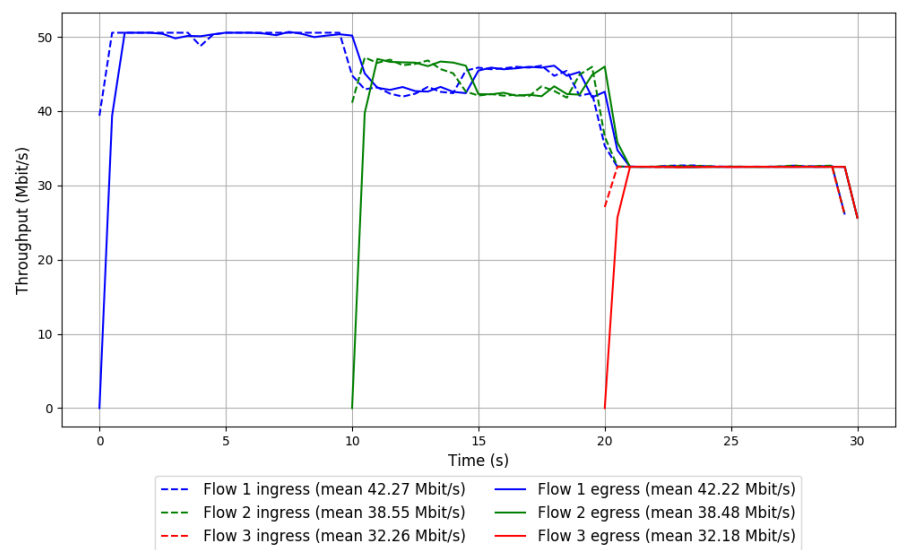


Run 2: Statistics of Sprout

Start at: 2019-01-03 10:17:33  
End at: 2019-01-03 10:18:03  
Local clock offset: -8.115 ms  
Remote clock offset: 0.454 ms

# Below is generated by plot.py at 2019-01-03 11:39:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.45 Mbit/s  
95th percentile per-packet one-way delay: 23.971 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 42.22 Mbit/s  
95th percentile per-packet one-way delay: 22.913 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 38.48 Mbit/s  
95th percentile per-packet one-way delay: 24.428 ms  
Loss rate: 0.16%  
-- Flow 3:  
Average throughput: 32.18 Mbit/s  
95th percentile per-packet one-way delay: 24.565 ms  
Loss rate: 0.28%

Run 2: Report of Sprout — Data Link

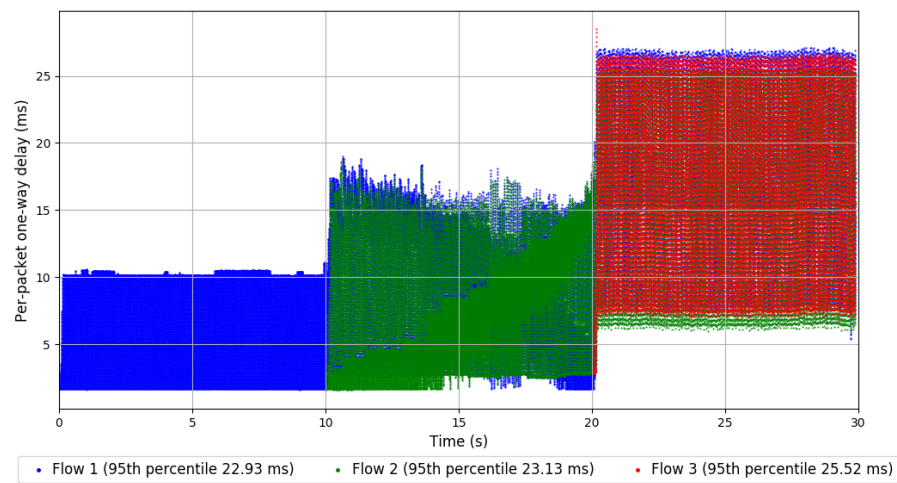
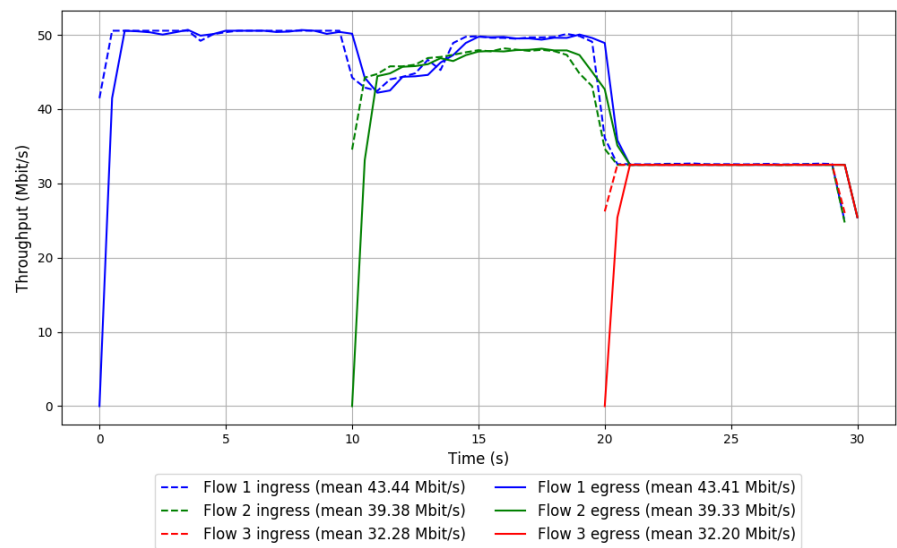


### Run 3: Statistics of Sprout

Start at: 2019-01-03 10:39:31  
End at: 2019-01-03 10:40:01  
Local clock offset: -7.752 ms  
Remote clock offset: 0.705 ms

```
# Below is generated by plot.py at 2019-01-03 11:40:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.20 Mbit/s
95th percentile per-packet one-way delay: 23.865 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 43.41 Mbit/s
95th percentile per-packet one-way delay: 22.933 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 39.33 Mbit/s
95th percentile per-packet one-way delay: 23.130 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 32.20 Mbit/s
95th percentile per-packet one-way delay: 25.515 ms
Loss rate: 0.22%
```

Run 3: Report of Sprout — Data Link



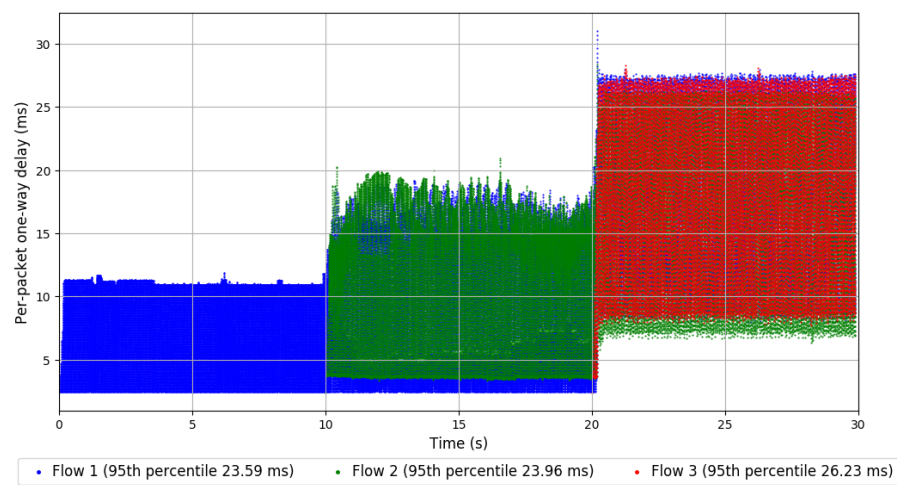
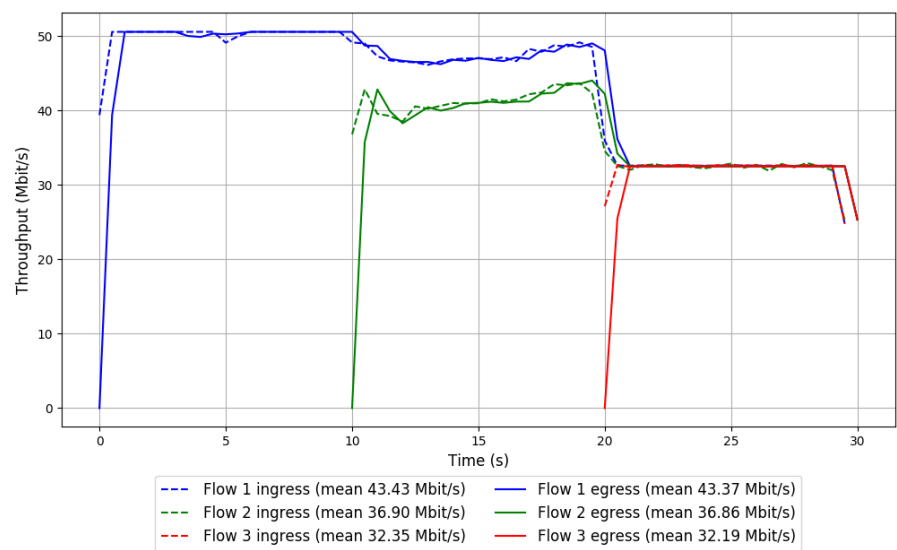


#### Run 4: Statistics of Sprout

Start at: 2019-01-03 11:01:30  
End at: 2019-01-03 11:02:00  
Local clock offset: -7.009 ms  
Remote clock offset: 0.694 ms

```
# Below is generated by plot.py at 2019-01-03 11:40:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.53 Mbit/s
95th percentile per-packet one-way delay: 24.583 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 43.37 Mbit/s
95th percentile per-packet one-way delay: 23.595 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 36.86 Mbit/s
95th percentile per-packet one-way delay: 23.958 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 32.19 Mbit/s
95th percentile per-packet one-way delay: 26.226 ms
Loss rate: 0.41%
```

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-01-03 11:23:28

End at: 2019-01-03 11:23:58

Local clock offset: -7.945 ms

Remote clock offset: 0.854 ms

# Below is generated by plot.py at 2019-01-03 11:40:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.83 Mbit/s

95th percentile per-packet one-way delay: 23.294 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 43.38 Mbit/s

95th percentile per-packet one-way delay: 21.344 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 40.26 Mbit/s

95th percentile per-packet one-way delay: 22.895 ms

Loss rate: 0.04%

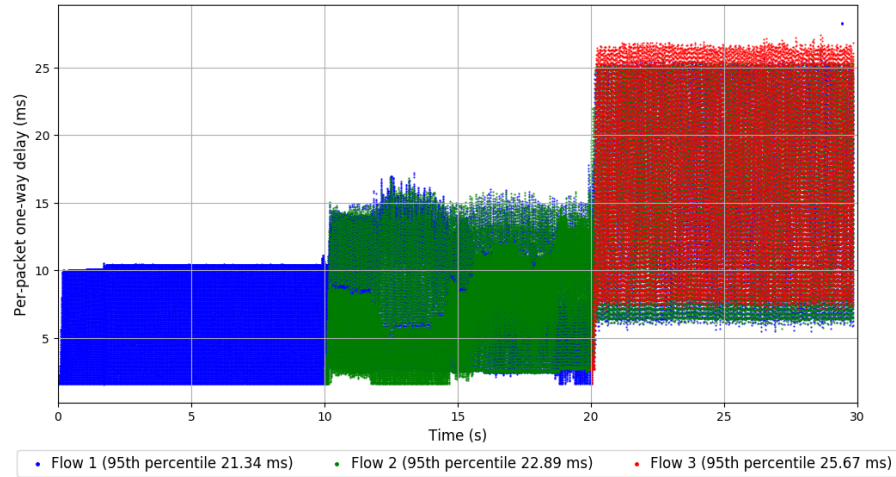
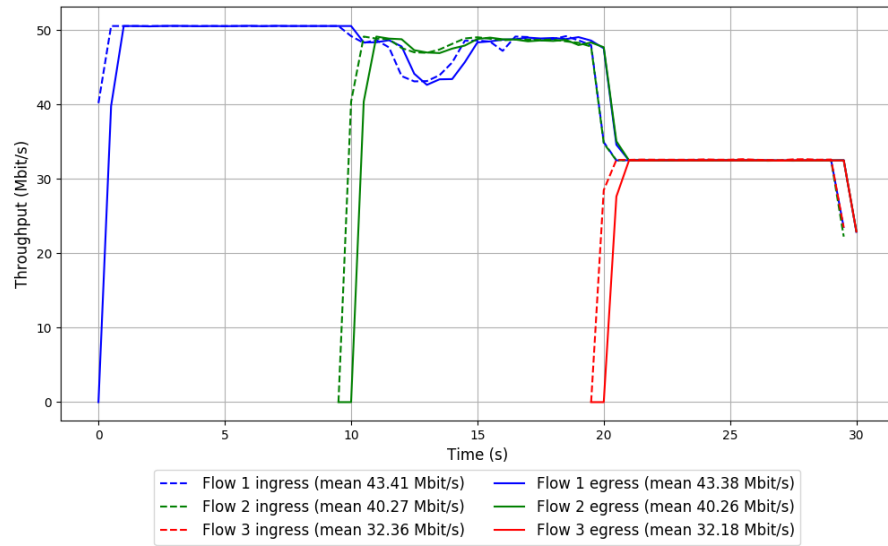
-- Flow 3:

Average throughput: 32.18 Mbit/s

95th percentile per-packet one-way delay: 25.667 ms

Loss rate: 0.50%

## Run 5: Report of Sprout — Data Link

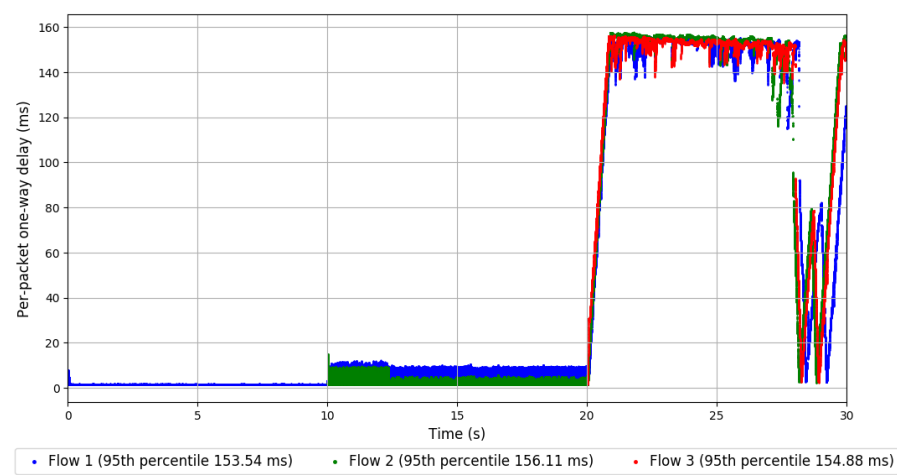
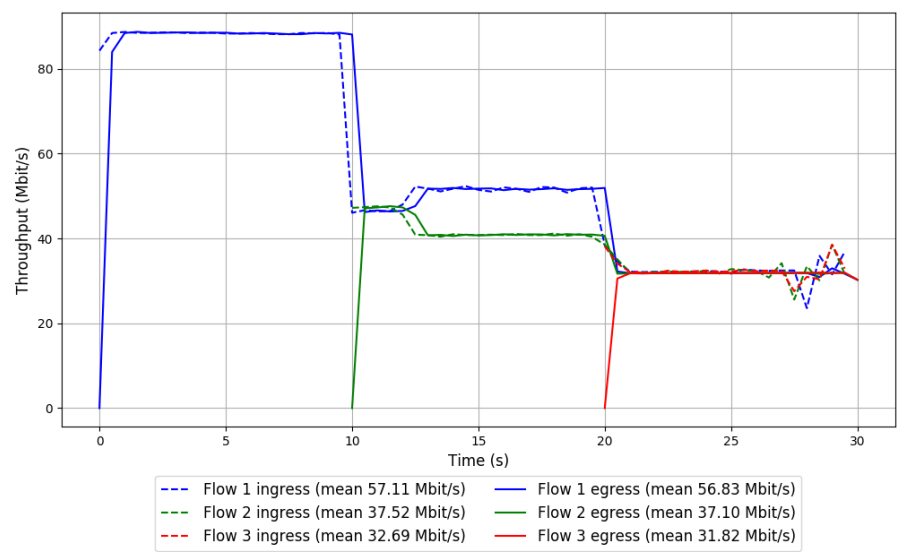


```
Run 1: Statistics of TaoVA-100x

Start at: 2019-01-03 09:56:42
End at: 2019-01-03 09:57:12
Local clock offset: -7.456 ms
Remote clock offset: 0.117 ms

# Below is generated by plot.py at 2019-01-03 11:41:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.12 Mbit/s
95th percentile per-packet one-way delay: 154.937 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 56.83 Mbit/s
95th percentile per-packet one-way delay: 153.543 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 37.10 Mbit/s
95th percentile per-packet one-way delay: 156.108 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 31.82 Mbit/s
95th percentile per-packet one-way delay: 154.883 ms
Loss rate: 2.72%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-01-03 10:18:40

End at: 2019-01-03 10:19:10

Local clock offset: -7.375 ms

Remote clock offset: 0.467 ms

# Below is generated by plot.py at 2019-01-03 11:41:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.07 Mbit/s

95th percentile per-packet one-way delay: 156.095 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 55.19 Mbit/s

95th percentile per-packet one-way delay: 156.280 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 39.46 Mbit/s

95th percentile per-packet one-way delay: 155.906 ms

Loss rate: 1.08%

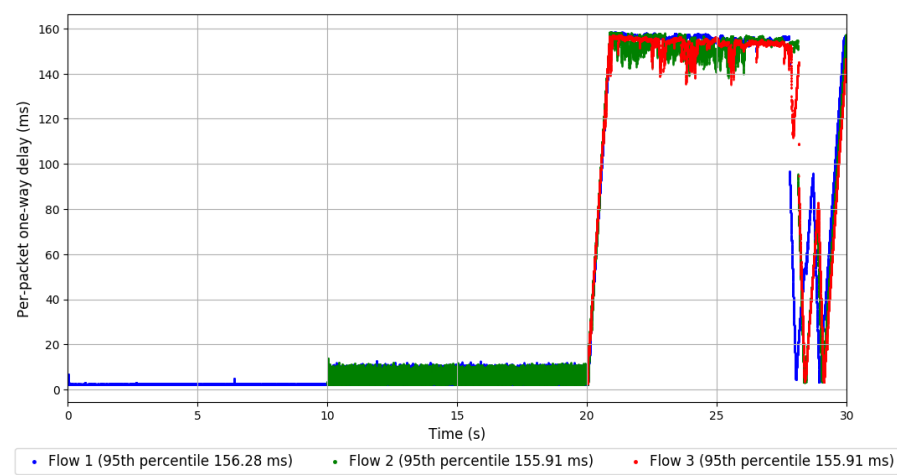
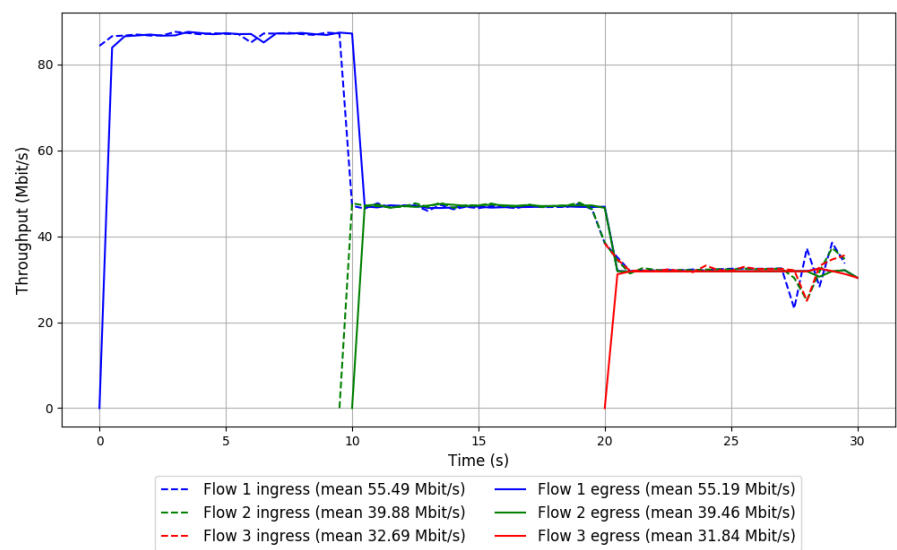
-- Flow 3:

Average throughput: 31.84 Mbit/s

95th percentile per-packet one-way delay: 155.910 ms

Loss rate: 2.71%

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





Run 3: Statistics of TaoVA-100x

Start at: 2019-01-03 10:40:39

End at: 2019-01-03 10:41:09

Local clock offset: -6.993 ms

Remote clock offset: 0.755 ms

# Below is generated by plot.py at 2019-01-03 11:41:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.04 Mbit/s

95th percentile per-packet one-way delay: 155.838 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 55.37 Mbit/s

95th percentile per-packet one-way delay: 155.954 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 39.17 Mbit/s

95th percentile per-packet one-way delay: 155.452 ms

Loss rate: 1.12%

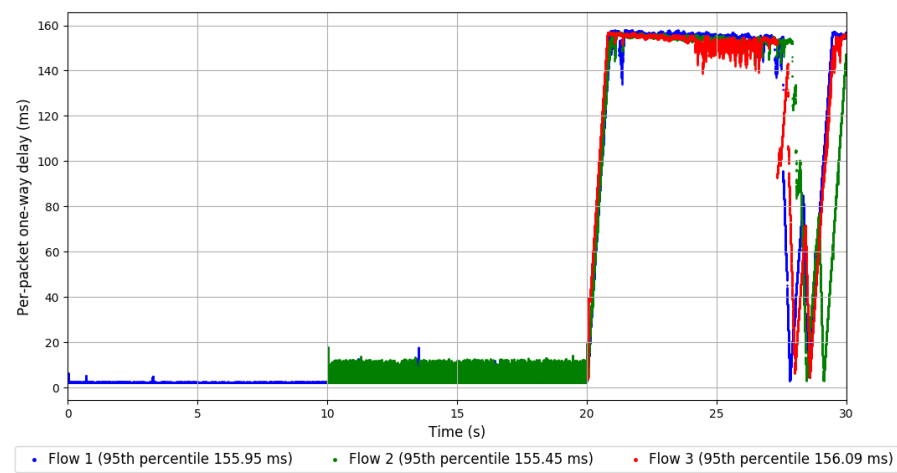
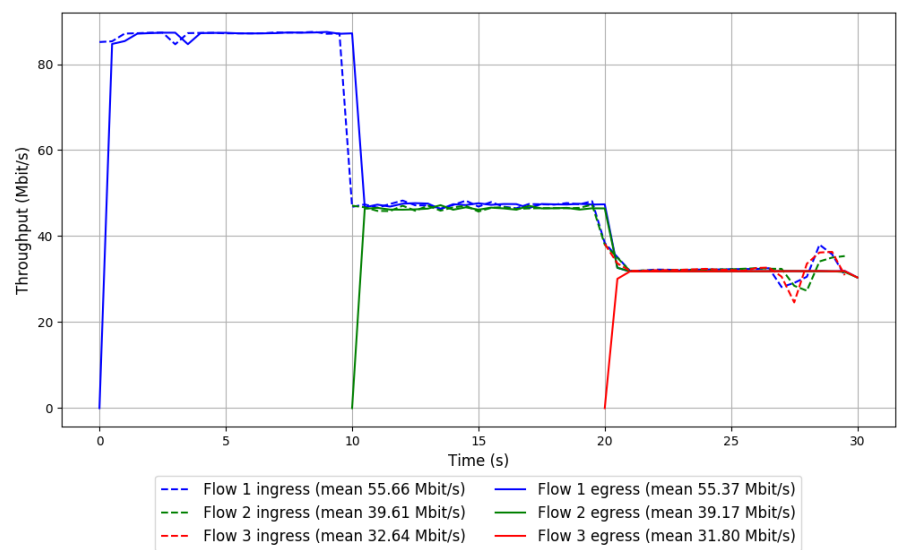
-- Flow 3:

Average throughput: 31.80 Mbit/s

95th percentile per-packet one-way delay: 156.092 ms

Loss rate: 2.62%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-01-03 11:02:37

End at: 2019-01-03 11:03:07

Local clock offset: -6.997 ms

Remote clock offset: 0.817 ms

# Below is generated by plot.py at 2019-01-03 11:41:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.39 Mbit/s

95th percentile per-packet one-way delay: 156.060 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 55.44 Mbit/s

95th percentile per-packet one-way delay: 154.656 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 39.57 Mbit/s

95th percentile per-packet one-way delay: 156.732 ms

Loss rate: 1.14%

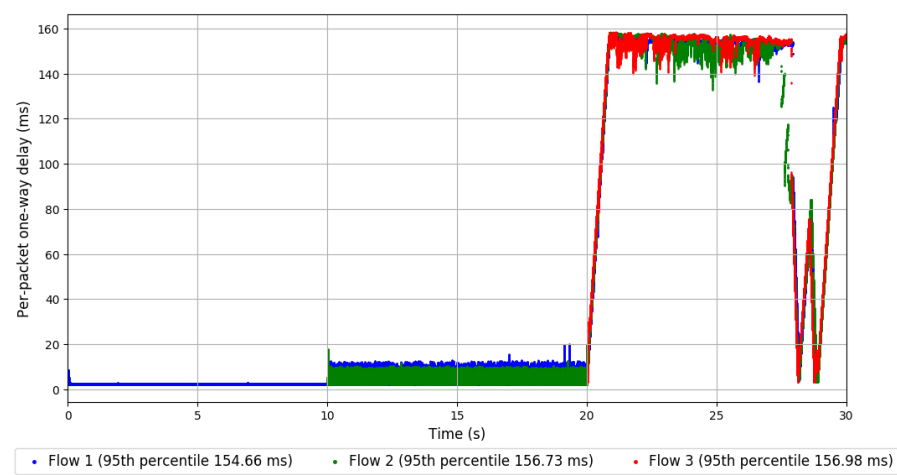
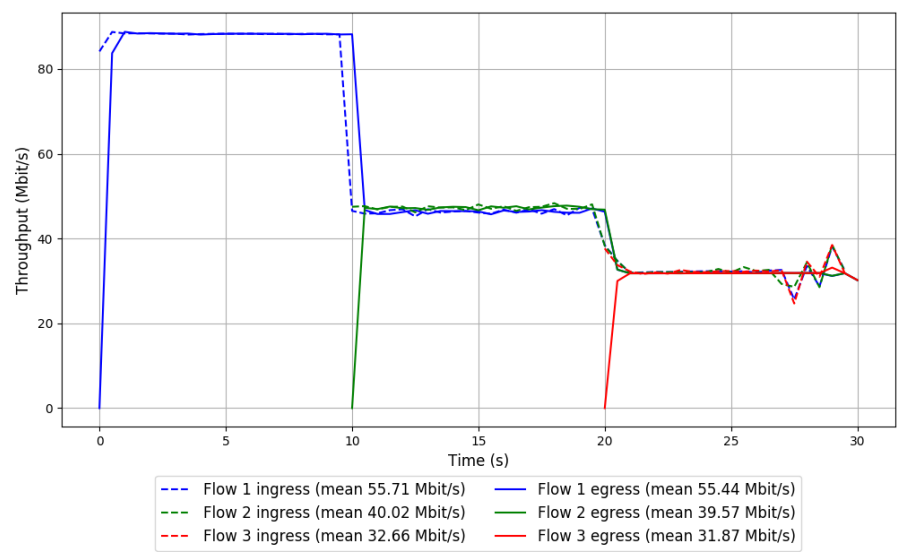
-- Flow 3:

Average throughput: 31.87 Mbit/s

95th percentile per-packet one-way delay: 156.976 ms

Loss rate: 2.46%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-01-03 11:24:36

End at: 2019-01-03 11:25:06

Local clock offset: -7.931 ms

Remote clock offset: 0.755 ms

# Below is generated by plot.py at 2019-01-03 11:41:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.44 Mbit/s

95th percentile per-packet one-way delay: 155.643 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 55.49 Mbit/s

95th percentile per-packet one-way delay: 153.167 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 39.57 Mbit/s

95th percentile per-packet one-way delay: 156.135 ms

Loss rate: 1.15%

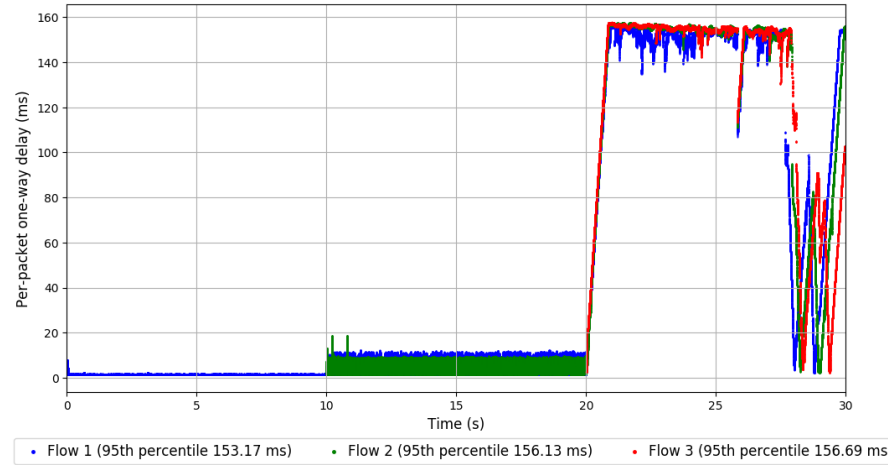
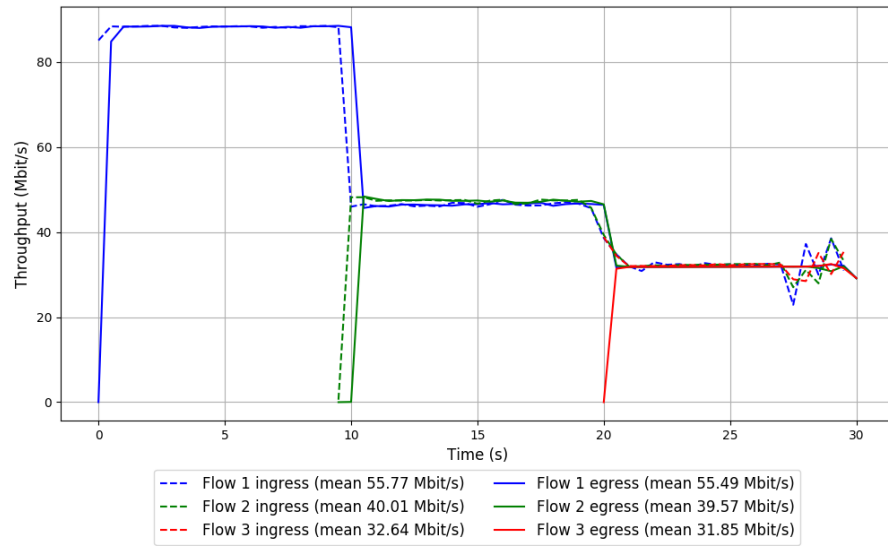
-- Flow 3:

Average throughput: 31.85 Mbit/s

95th percentile per-packet one-way delay: 156.687 ms

Loss rate: 2.47%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-01-03 09:50:58

End at: 2019-01-03 09:51:28

Local clock offset: -6.377 ms

Remote clock offset: 0.064 ms

# Below is generated by plot.py at 2019-01-03 11:41:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.49 Mbit/s

95th percentile per-packet one-way delay: 5.065 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 55.66 Mbit/s

95th percentile per-packet one-way delay: 4.138 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 46.18 Mbit/s

95th percentile per-packet one-way delay: 4.926 ms

Loss rate: 0.02%

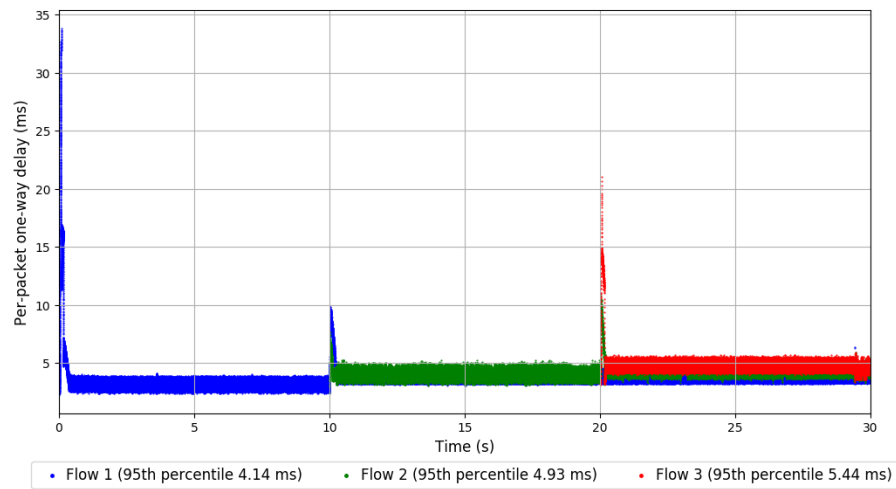
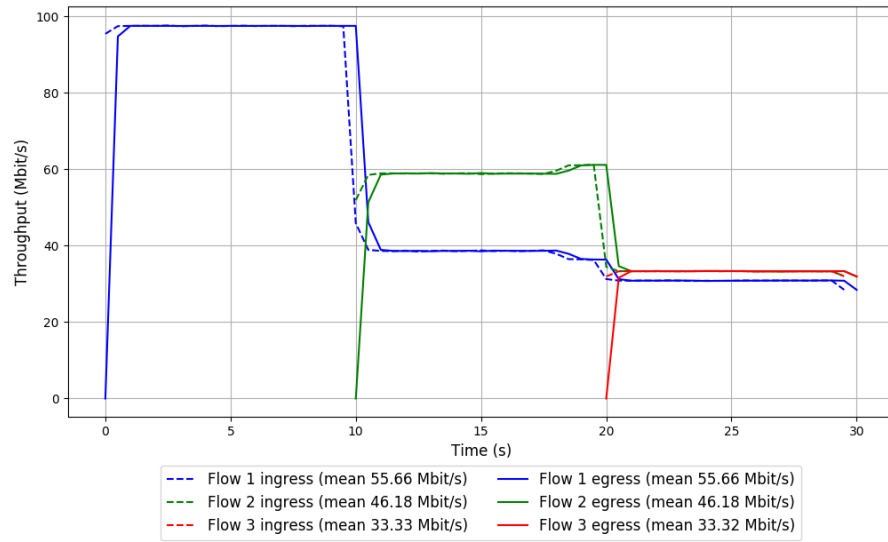
-- Flow 3:

Average throughput: 33.32 Mbit/s

95th percentile per-packet one-way delay: 5.438 ms

Loss rate: 0.06%

## Run 1: Report of TCP Vegas — Data Link





Run 2: Statistics of TCP Vegas

Start at: 2019-01-03 10:12:56

End at: 2019-01-03 10:13:26

Local clock offset: -7.186 ms

Remote clock offset: 0.43 ms

# Below is generated by plot.py at 2019-01-03 11:41:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.09 Mbit/s

95th percentile per-packet one-way delay: 4.661 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 52.14 Mbit/s

95th percentile per-packet one-way delay: 3.600 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 47.00 Mbit/s

95th percentile per-packet one-way delay: 4.531 ms

Loss rate: 0.02%

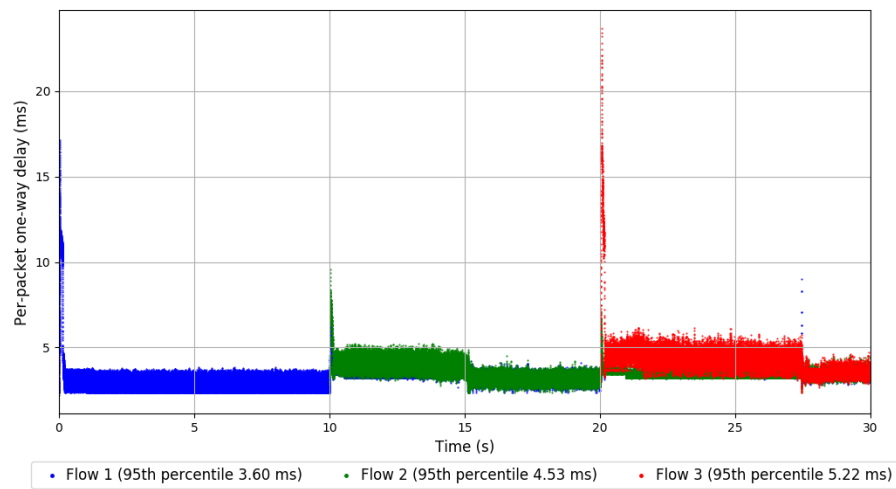
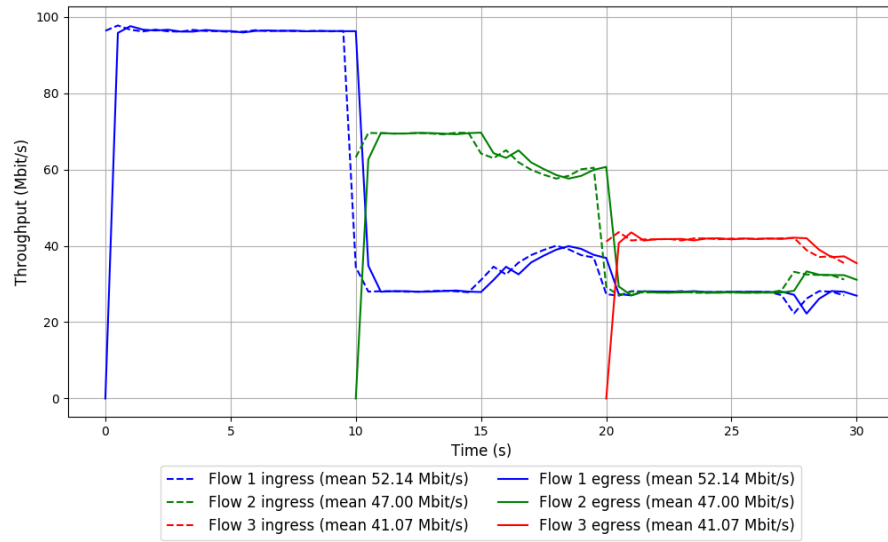
-- Flow 3:

Average throughput: 41.07 Mbit/s

95th percentile per-packet one-way delay: 5.221 ms

Loss rate: 0.04%

## Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-01-03 10:34:54

End at: 2019-01-03 10:35:24

Local clock offset: -7.796 ms

Remote clock offset: 0.745 ms

# Below is generated by plot.py at 2019-01-03 11:41:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 4.243 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 52.61 Mbit/s

95th percentile per-packet one-way delay: 2.970 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 49.90 Mbit/s

95th percentile per-packet one-way delay: 3.707 ms

Loss rate: 0.02%

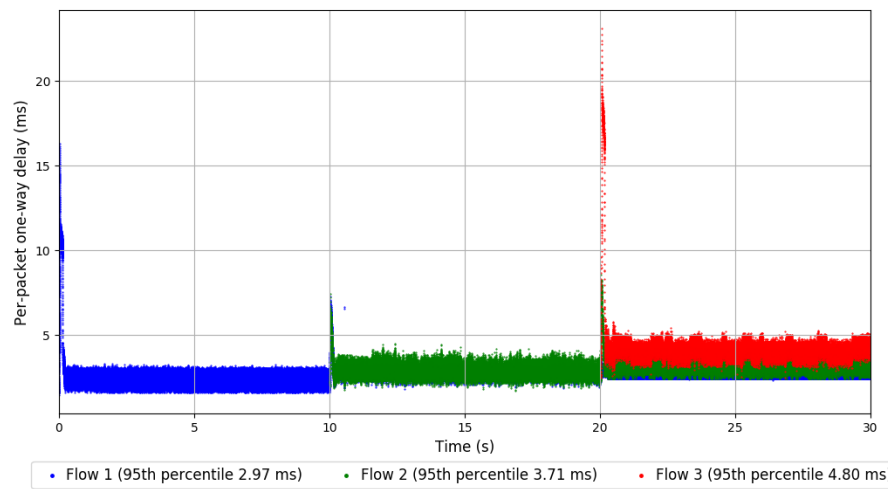
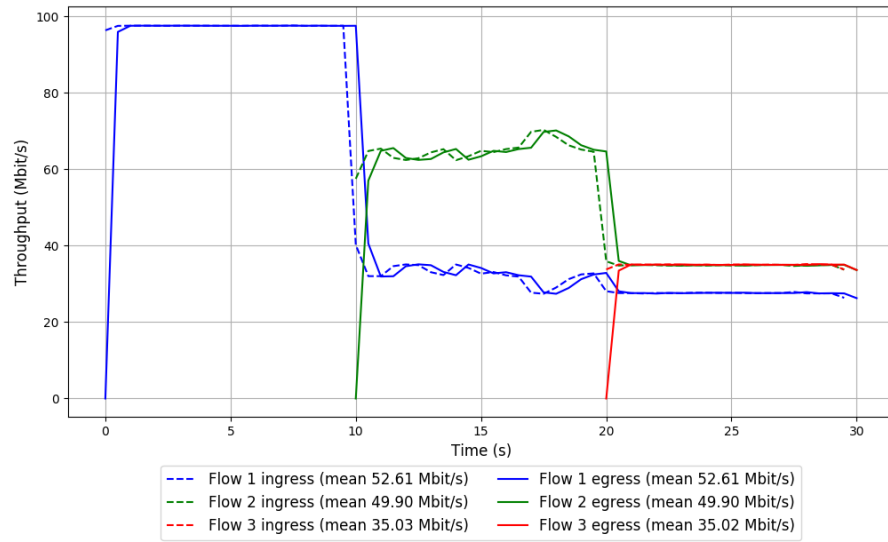
-- Flow 3:

Average throughput: 35.02 Mbit/s

95th percentile per-packet one-way delay: 4.799 ms

Loss rate: 0.06%

### Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-01-03 10:56:53

End at: 2019-01-03 10:57:23

Local clock offset: -7.048 ms

Remote clock offset: 0.72 ms

# Below is generated by plot.py at 2019-01-03 11:42:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.40 Mbit/s

95th percentile per-packet one-way delay: 4.980 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 51.86 Mbit/s

95th percentile per-packet one-way delay: 3.798 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 51.21 Mbit/s

95th percentile per-packet one-way delay: 5.060 ms

Loss rate: 0.02%

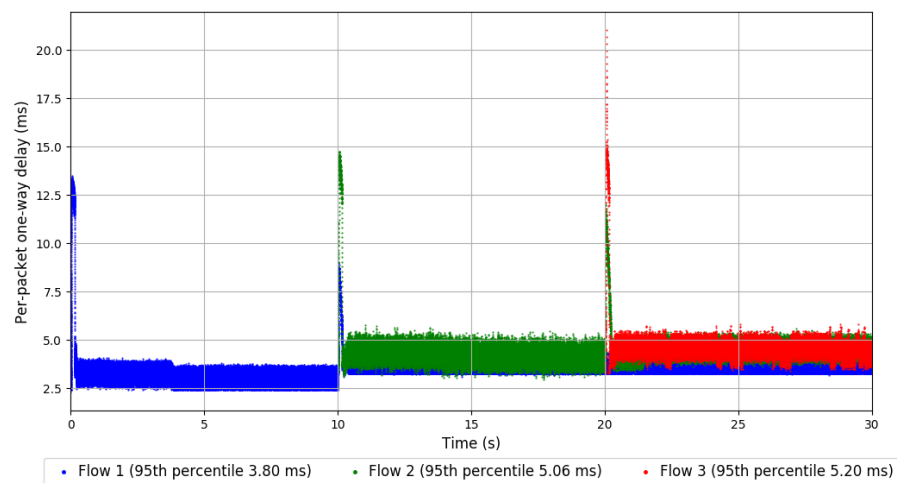
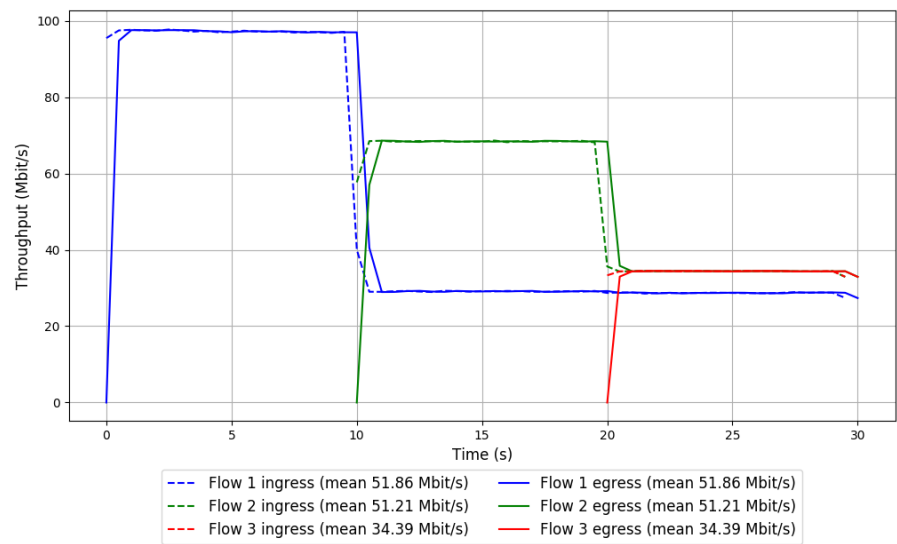
-- Flow 3:

Average throughput: 34.39 Mbit/s

95th percentile per-packet one-way delay: 5.203 ms

Loss rate: 0.05%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-01-03 11:18:52

End at: 2019-01-03 11:19:22

Local clock offset: -7.165 ms

Remote clock offset: 0.79 ms

# Below is generated by plot.py at 2019-01-03 11:42:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.08 Mbit/s

95th percentile per-packet one-way delay: 4.966 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 50.67 Mbit/s

95th percentile per-packet one-way delay: 3.531 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 52.00 Mbit/s

95th percentile per-packet one-way delay: 4.708 ms

Loss rate: 0.02%

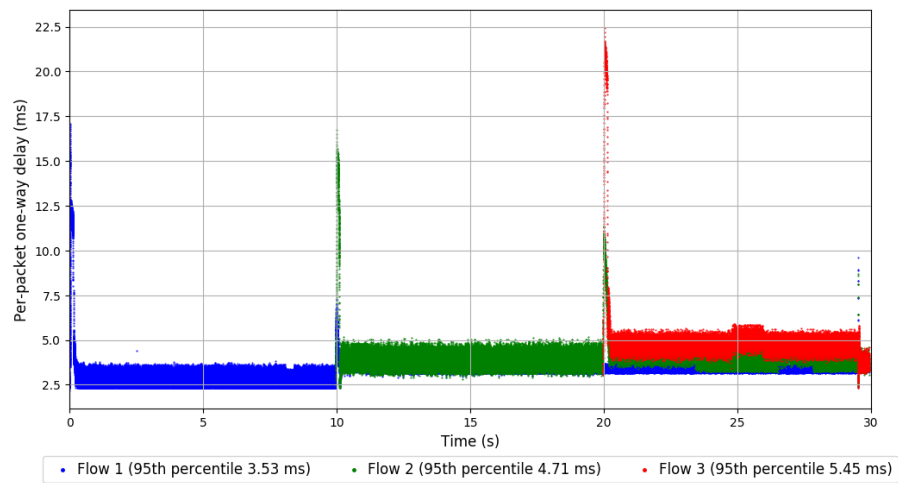
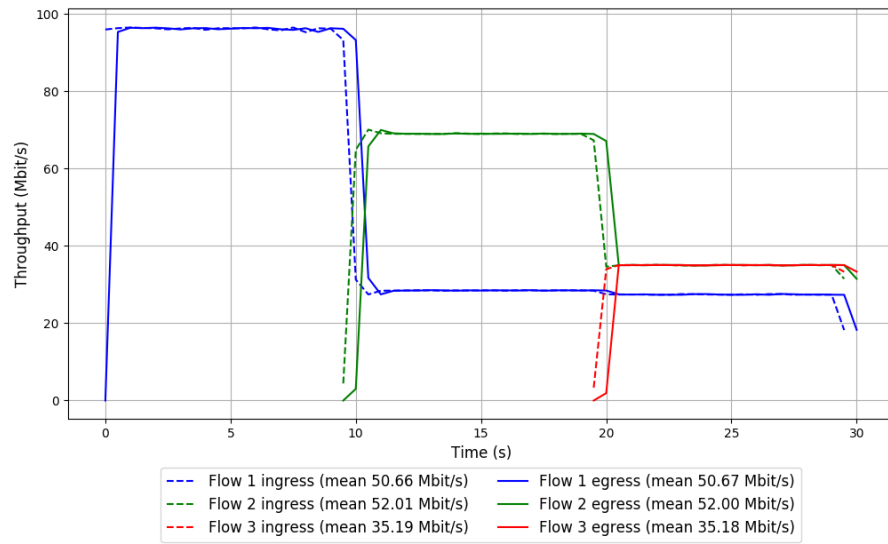
-- Flow 3:

Average throughput: 35.18 Mbit/s

95th percentile per-packet one-way delay: 5.448 ms

Loss rate: 0.05%

# Run 5: Report of TCP Vegas — Data Link





Run 1: Statistics of Verus

Start at: 2019-01-03 09:53:18

End at: 2019-01-03 09:53:48

Local clock offset: -7.245 ms

Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2019-01-03 11:42:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 82.47 Mbit/s

95th percentile per-packet one-way delay: 33.646 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 50.41 Mbit/s

95th percentile per-packet one-way delay: 27.776 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 33.17 Mbit/s

95th percentile per-packet one-way delay: 43.982 ms

Loss rate: 0.02%

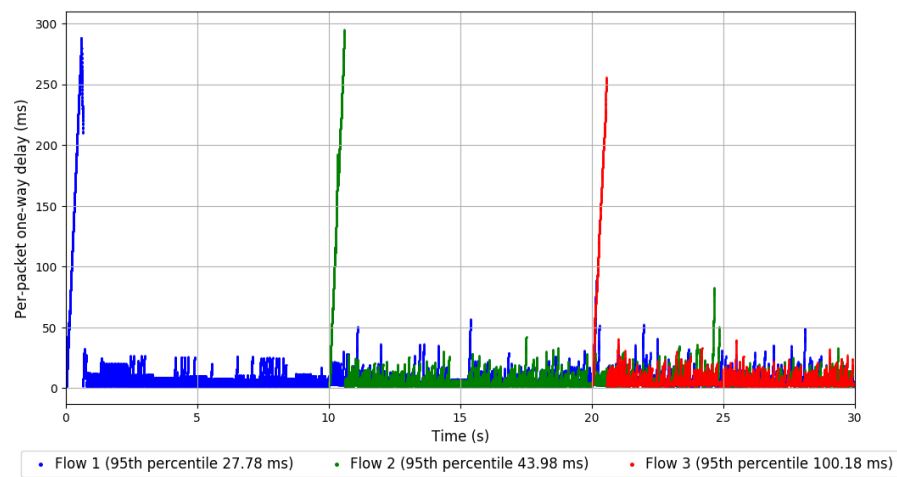
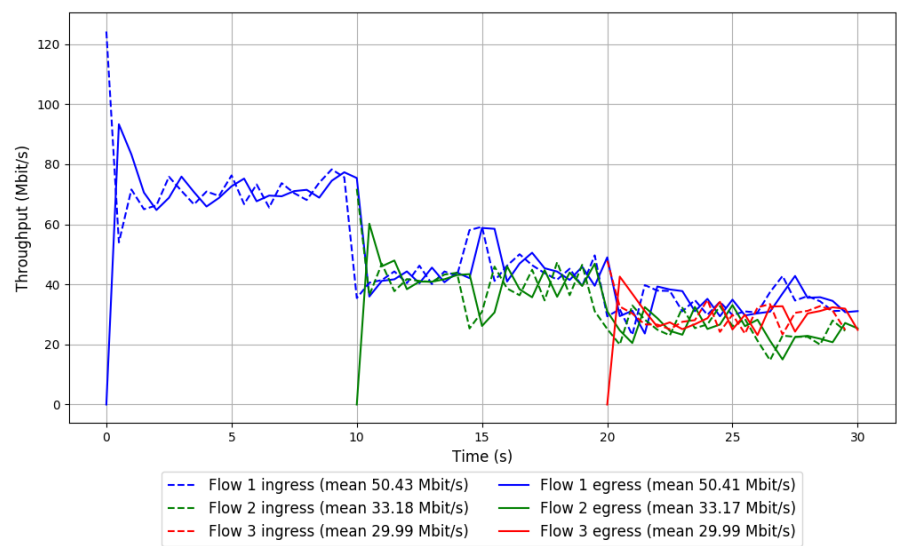
-- Flow 3:

Average throughput: 29.99 Mbit/s

95th percentile per-packet one-way delay: 100.178 ms

Loss rate: 0.04%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-01-03 10:15:16

End at: 2019-01-03 10:15:46

Local clock offset: -7.285 ms

Remote clock offset: 0.374 ms

# Below is generated by plot.py at 2019-01-03 11:42:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.20 Mbit/s

95th percentile per-packet one-way delay: 26.925 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 45.94 Mbit/s

95th percentile per-packet one-way delay: 25.345 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 37.58 Mbit/s

95th percentile per-packet one-way delay: 21.211 ms

Loss rate: 0.06%

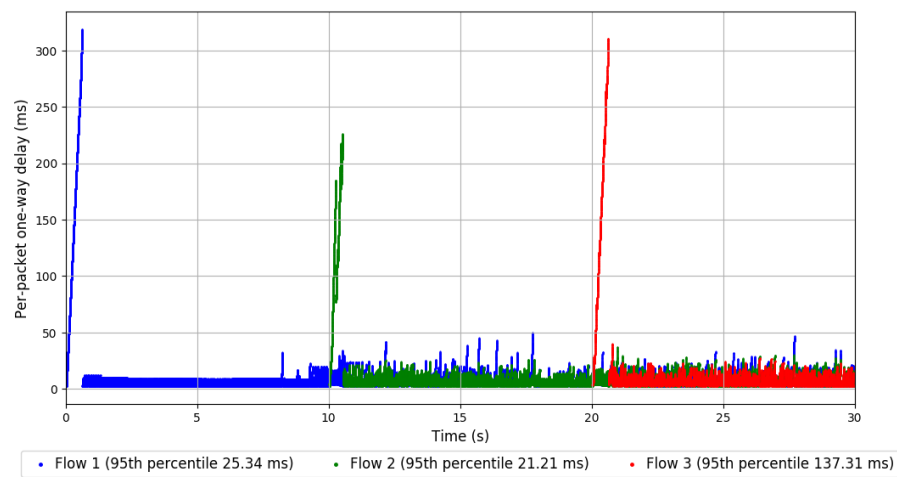
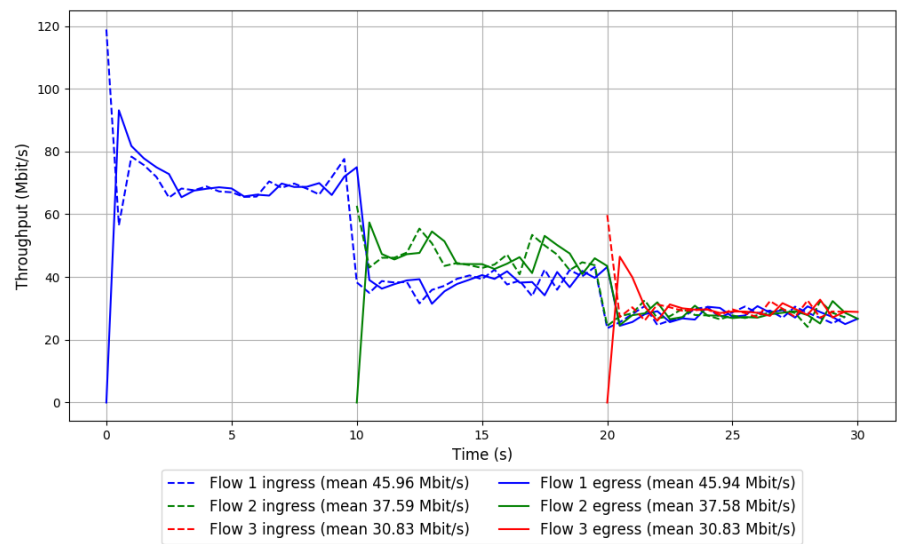
-- Flow 3:

Average throughput: 30.83 Mbit/s

95th percentile per-packet one-way delay: 137.308 ms

Loss rate: 0.04%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-01-03 10:37:14

End at: 2019-01-03 10:37:44

Local clock offset: -7.01 ms

Remote clock offset: 0.661 ms

# Below is generated by plot.py at 2019-01-03 11:42:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 83.41 Mbit/s

95th percentile per-packet one-way delay: 24.070 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 47.23 Mbit/s

95th percentile per-packet one-way delay: 24.251 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 38.94 Mbit/s

95th percentile per-packet one-way delay: 18.916 ms

Loss rate: 0.06%

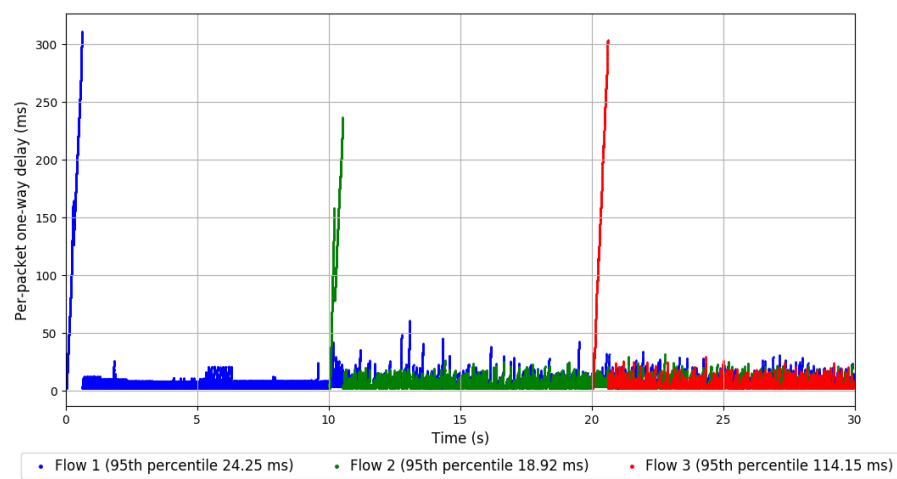
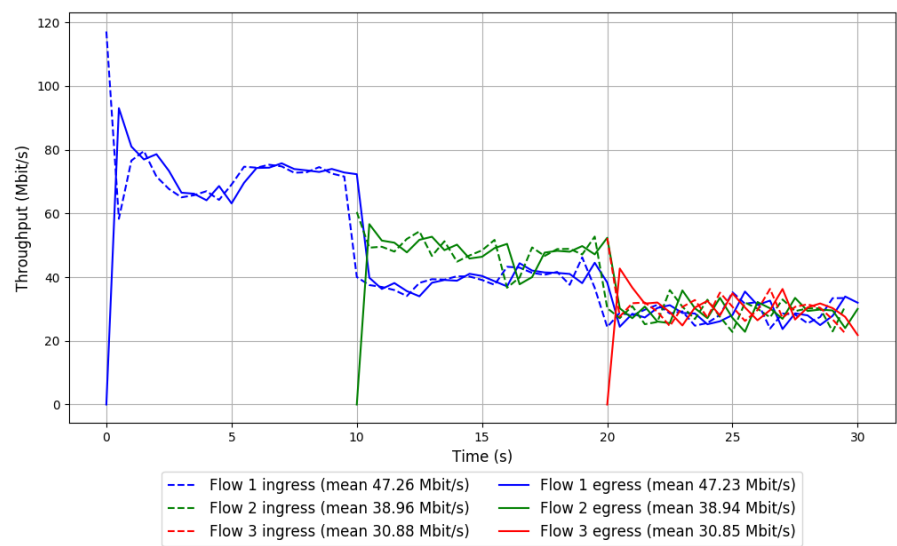
-- Flow 3:

Average throughput: 30.85 Mbit/s

95th percentile per-packet one-way delay: 114.149 ms

Loss rate: 0.14%

Run 3: Report of Verus — Data Link

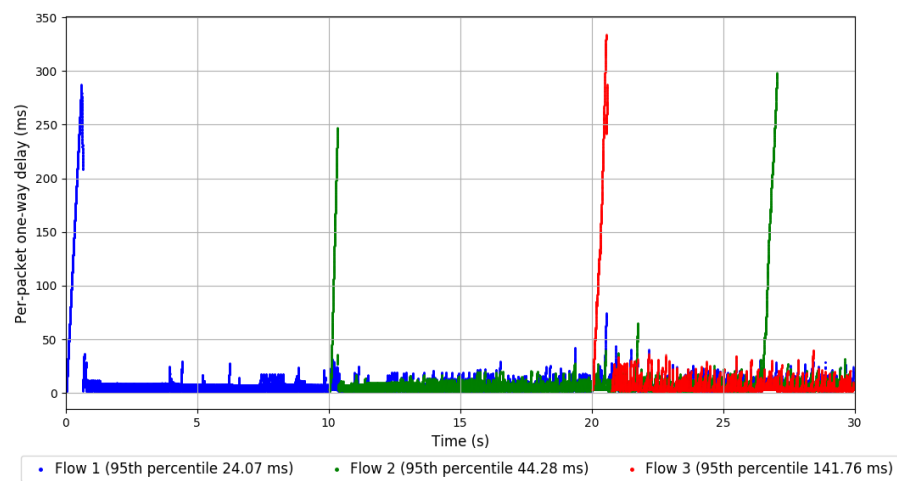
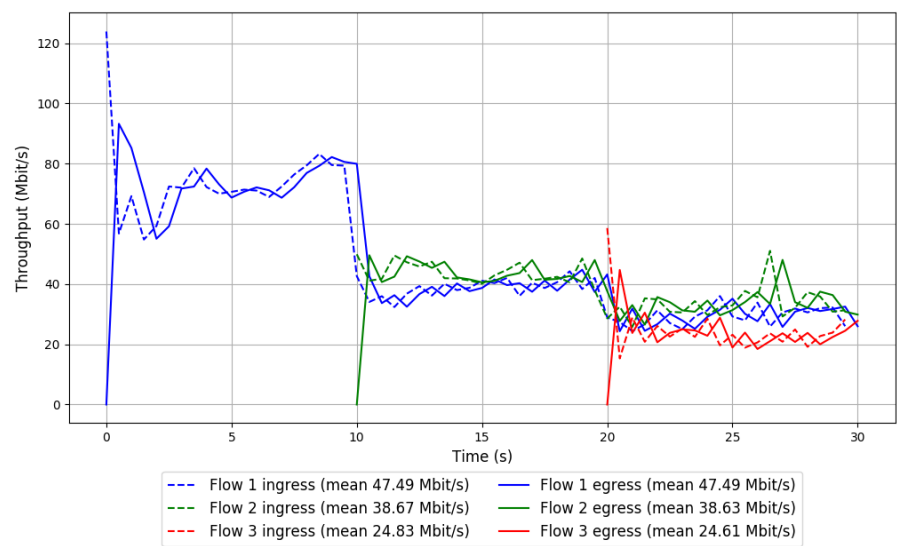


Run 4: Statistics of Verus

Start at: 2019-01-03 10:59:13  
End at: 2019-01-03 10:59:43  
Local clock offset: -7.773 ms  
Remote clock offset: 0.807 ms

# Below is generated by plot.py at 2019-01-03 11:42:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.39 Mbit/s  
95th percentile per-packet one-way delay: 34.913 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 47.49 Mbit/s  
95th percentile per-packet one-way delay: 24.071 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 38.63 Mbit/s  
95th percentile per-packet one-way delay: 44.283 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 24.61 Mbit/s  
95th percentile per-packet one-way delay: 141.758 ms  
Loss rate: 0.87%

Run 4: Report of Verus — Data Link



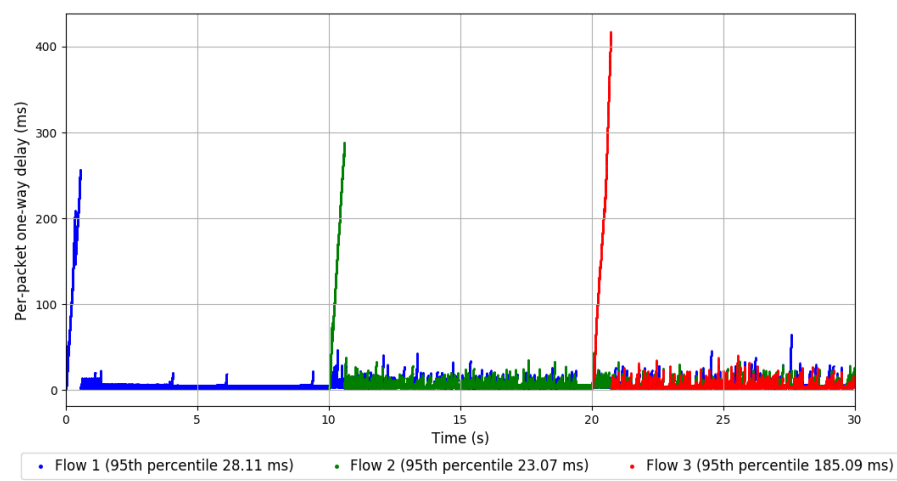
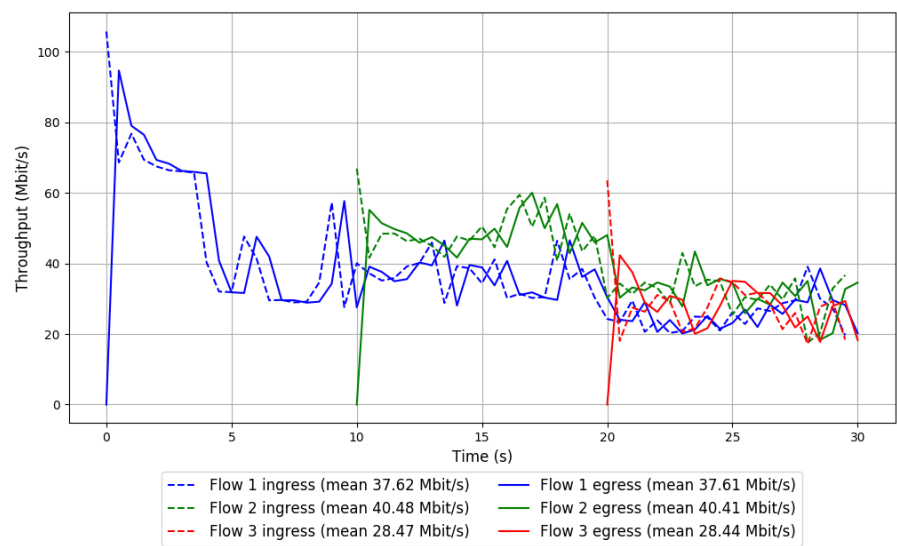


Run 5: Statistics of Verus

Start at: 2019-01-03 11:21:12  
End at: 2019-01-03 11:21:42  
Local clock offset: -7.112 ms  
Remote clock offset: 0.864 ms

# Below is generated by plot.py at 2019-01-03 11:42:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 73.97 Mbit/s  
95th percentile per-packet one-way delay: 33.489 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 37.61 Mbit/s  
95th percentile per-packet one-way delay: 28.107 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 40.41 Mbit/s  
95th percentile per-packet one-way delay: 23.068 ms  
Loss rate: 0.17%  
-- Flow 3:  
Average throughput: 28.44 Mbit/s  
95th percentile per-packet one-way delay: 185.089 ms  
Loss rate: 0.12%

Run 5: Report of Verus — Data Link

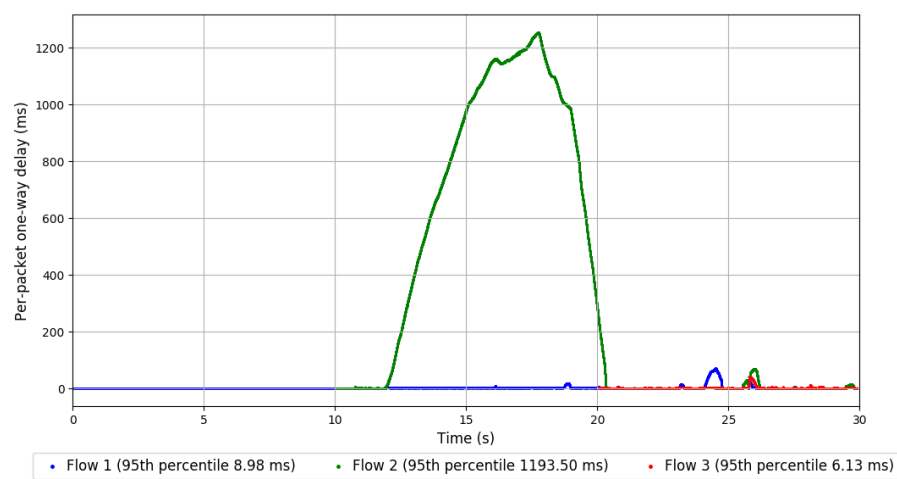
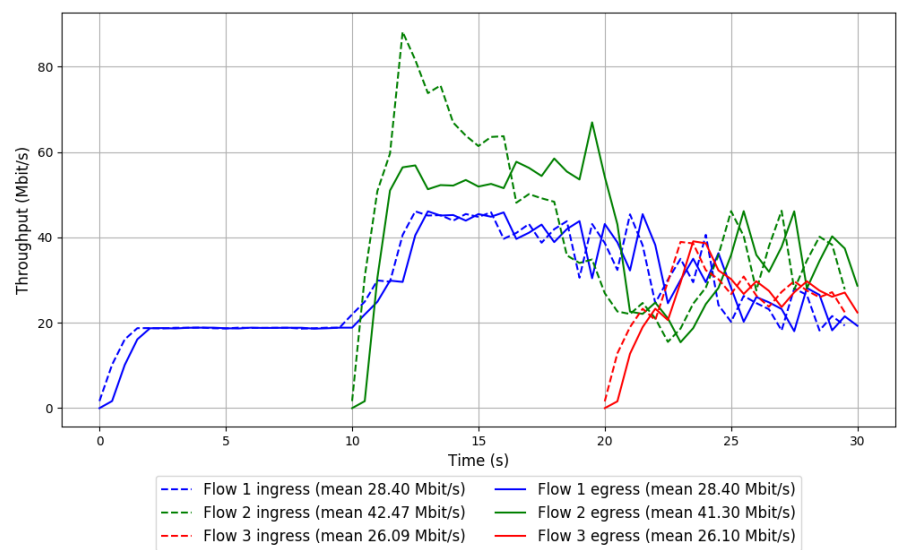


Run 1: Statistics of PCC-Vivace

Start at: 2019-01-03 09:45:17  
End at: 2019-01-03 09:45:47  
Local clock offset: -6.826 ms  
Remote clock offset: -0.169 ms

# Below is generated by plot.py at 2019-01-03 11:42:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 64.48 Mbit/s  
95th percentile per-packet one-way delay: 1153.134 ms  
Loss rate: 1.24%  
-- Flow 1:  
Average throughput: 28.40 Mbit/s  
95th percentile per-packet one-way delay: 8.983 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 41.30 Mbit/s  
95th percentile per-packet one-way delay: 1193.499 ms  
Loss rate: 2.81%  
-- Flow 3:  
Average throughput: 26.10 Mbit/s  
95th percentile per-packet one-way delay: 6.131 ms  
Loss rate: 0.07%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-01-03 10:07:13

End at: 2019-01-03 10:07:43

Local clock offset: -7.072 ms

Remote clock offset: 0.316 ms

# Below is generated by plot.py at 2019-01-03 11:43:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 82.01 Mbit/s

95th percentile per-packet one-way delay: 52.985 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 52.29 Mbit/s

95th percentile per-packet one-way delay: 14.697 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 29.69 Mbit/s

95th percentile per-packet one-way delay: 7.690 ms

Loss rate: 0.03%

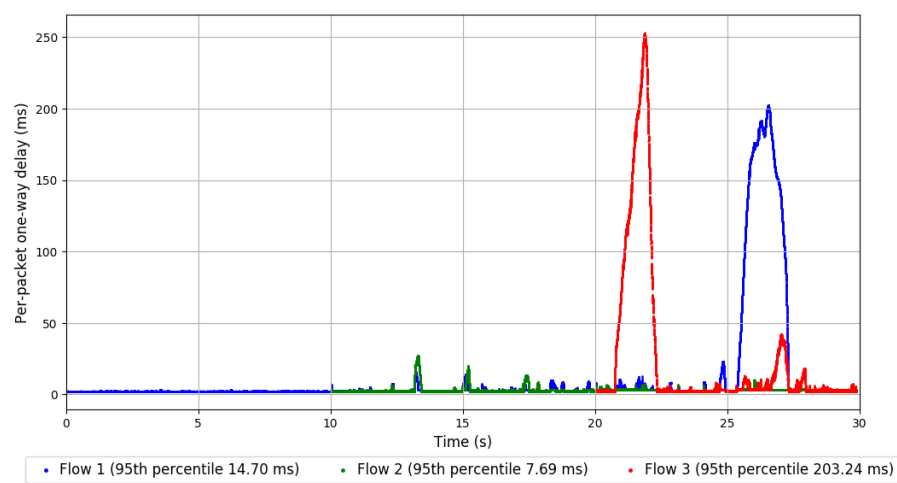
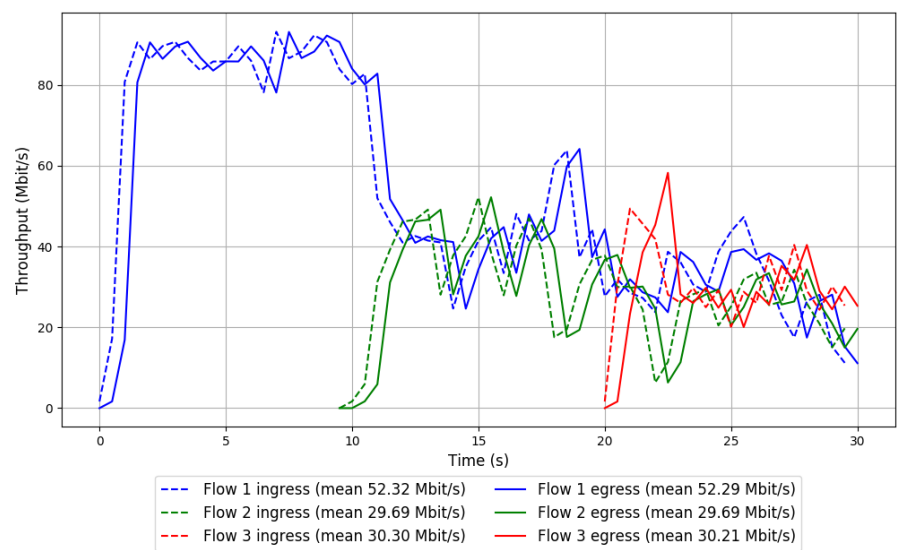
-- Flow 3:

Average throughput: 30.21 Mbit/s

95th percentile per-packet one-way delay: 203.239 ms

Loss rate: 0.34%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-01-03 10:29:12

End at: 2019-01-03 10:29:42

Local clock offset: -7.202 ms

Remote clock offset: 0.581 ms

# Below is generated by plot.py at 2019-01-03 11:43:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.79 Mbit/s

95th percentile per-packet one-way delay: 1756.272 ms

Loss rate: 1.29%

-- Flow 1:

Average throughput: 50.41 Mbit/s

95th percentile per-packet one-way delay: 4.855 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 42.02 Mbit/s

95th percentile per-packet one-way delay: 1892.707 ms

Loss rate: 2.87%

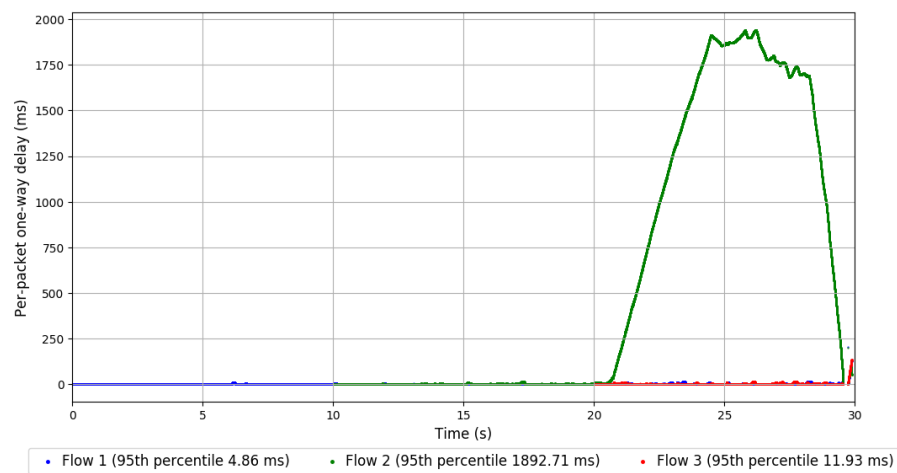
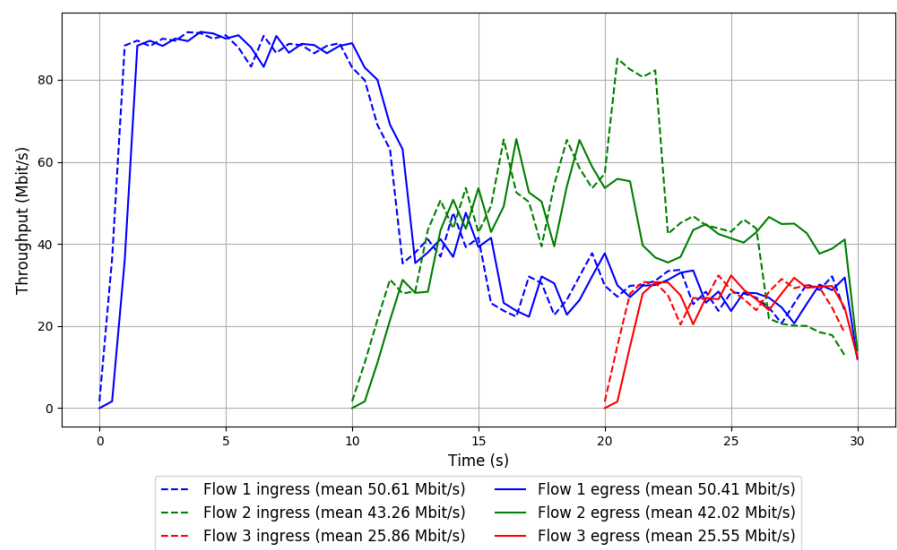
-- Flow 3:

Average throughput: 25.55 Mbit/s

95th percentile per-packet one-way delay: 11.927 ms

Loss rate: 1.23%

Run 3: Report of PCC-Vivace — Data Link





Run 4: Statistics of PCC-Vivace

Start at: 2019-01-03 10:51:10

End at: 2019-01-03 10:51:40

Local clock offset: -7.037 ms

Remote clock offset: 0.712 ms

# Below is generated by plot.py at 2019-01-03 11:43:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.74 Mbit/s

95th percentile per-packet one-way delay: 3.937 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 54.65 Mbit/s

95th percentile per-packet one-way delay: 4.334 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 34.90 Mbit/s

95th percentile per-packet one-way delay: 3.578 ms

Loss rate: 0.01%

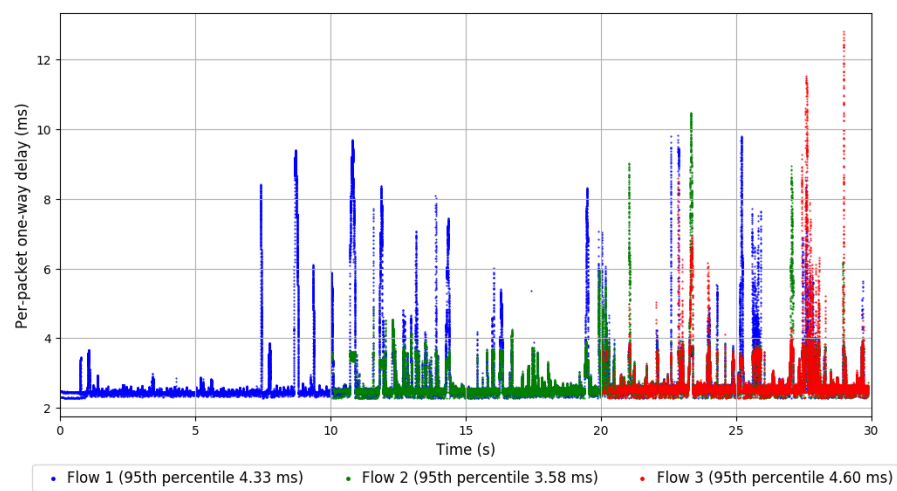
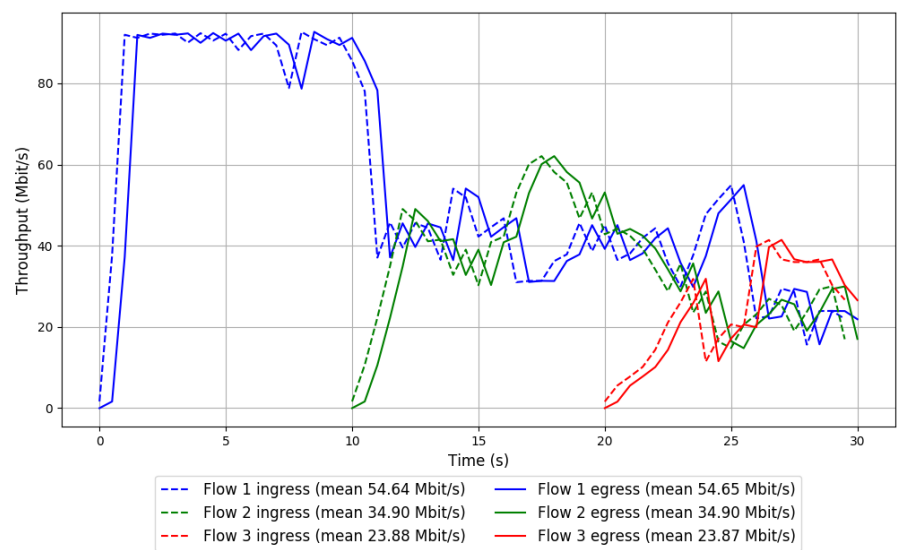
-- Flow 3:

Average throughput: 23.87 Mbit/s

95th percentile per-packet one-way delay: 4.603 ms

Loss rate: 0.06%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-01-03 11:13:09

End at: 2019-01-03 11:13:39

Local clock offset: -7.031 ms

Remote clock offset: 0.706 ms

# Below is generated by plot.py at 2019-01-03 11:43:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.17 Mbit/s

95th percentile per-packet one-way delay: 191.395 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 58.20 Mbit/s

95th percentile per-packet one-way delay: 3.575 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 31.96 Mbit/s

95th percentile per-packet one-way delay: 412.334 ms

Loss rate: 3.18%

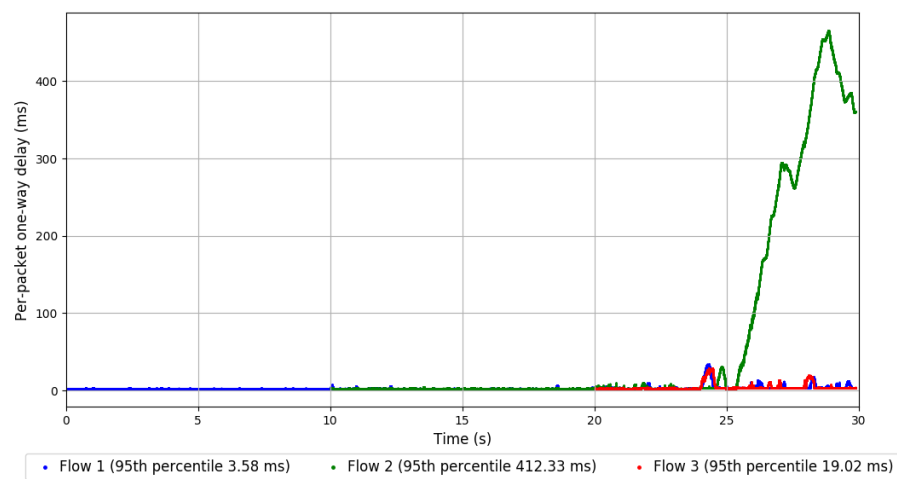
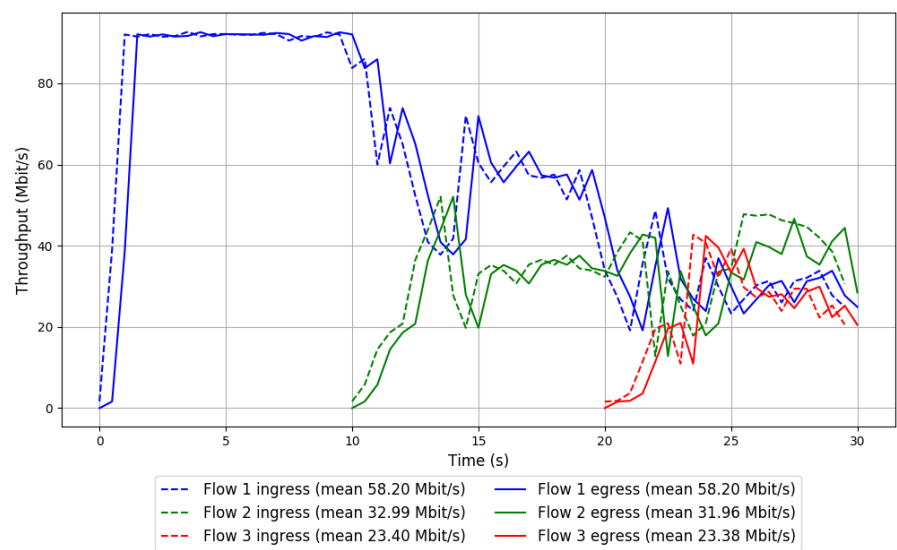
-- Flow 3:

Average throughput: 23.38 Mbit/s

95th percentile per-packet one-way delay: 19.015 ms

Loss rate: 0.11%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-01-03 09:49:53

End at: 2019-01-03 09:50:23

Local clock offset: -7.159 ms

Remote clock offset: 0.032 ms

# Below is generated by plot.py at 2019-01-03 11:43:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.60 Mbit/s

95th percentile per-packet one-way delay: 2.217 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 2.270 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.72 Mbit/s

95th percentile per-packet one-way delay: 2.011 ms

Loss rate: 0.00%

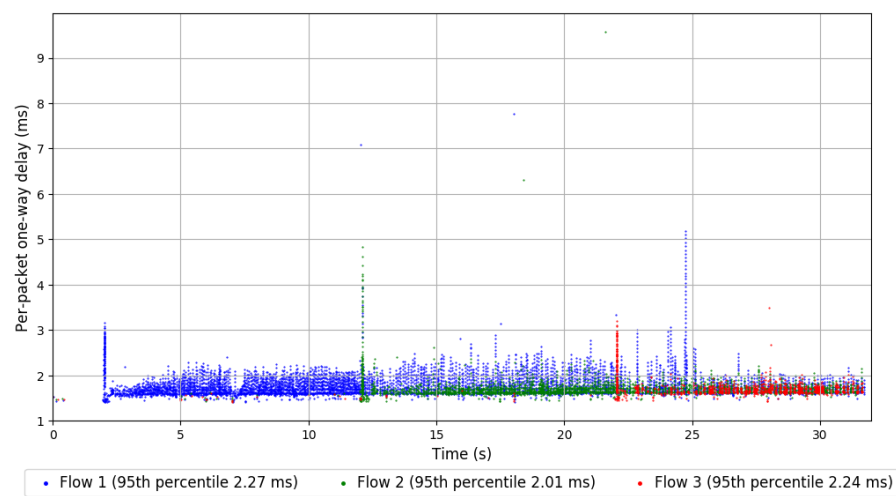
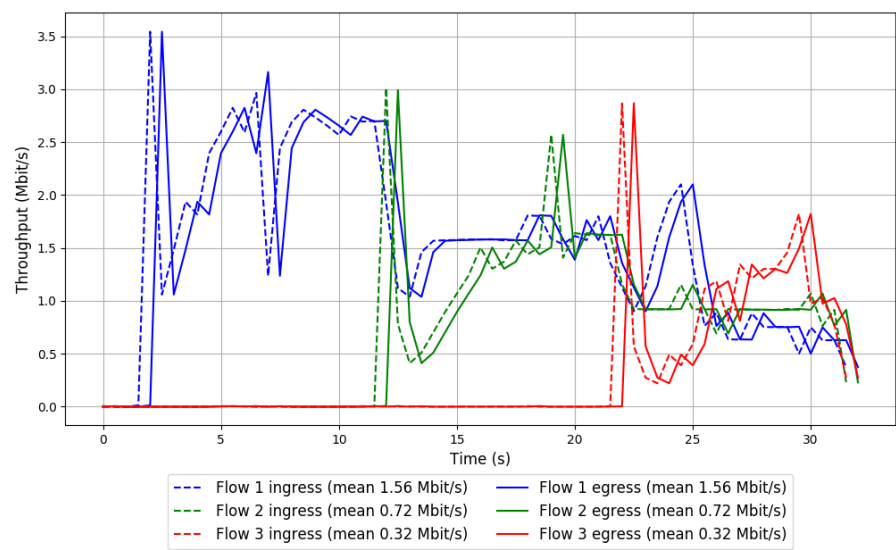
-- Flow 3:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 2.240 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-01-03 10:11:50

End at: 2019-01-03 10:12:20

Local clock offset: -7.168 ms

Remote clock offset: 0.335 ms

# Below is generated by plot.py at 2019-01-03 11:43:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.69 Mbit/s

95th percentile per-packet one-way delay: 3.160 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 3.075 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 0.89 Mbit/s

95th percentile per-packet one-way delay: 3.300 ms

Loss rate: 0.00%

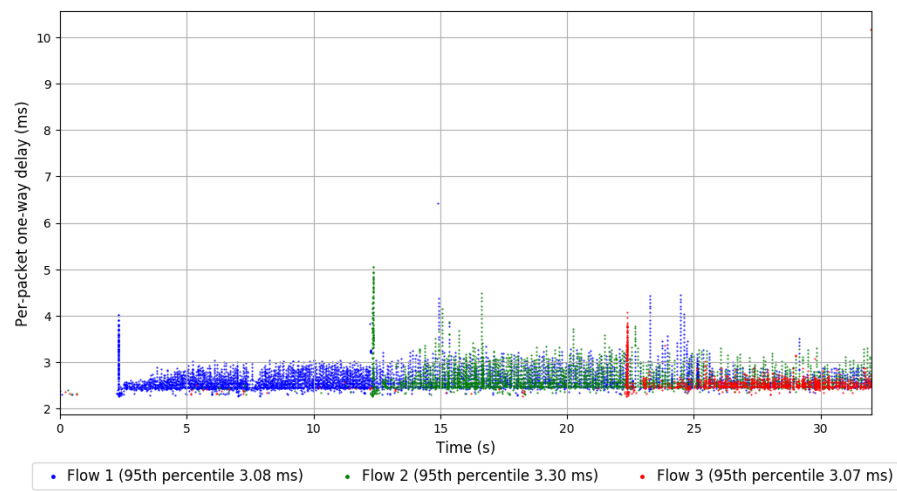
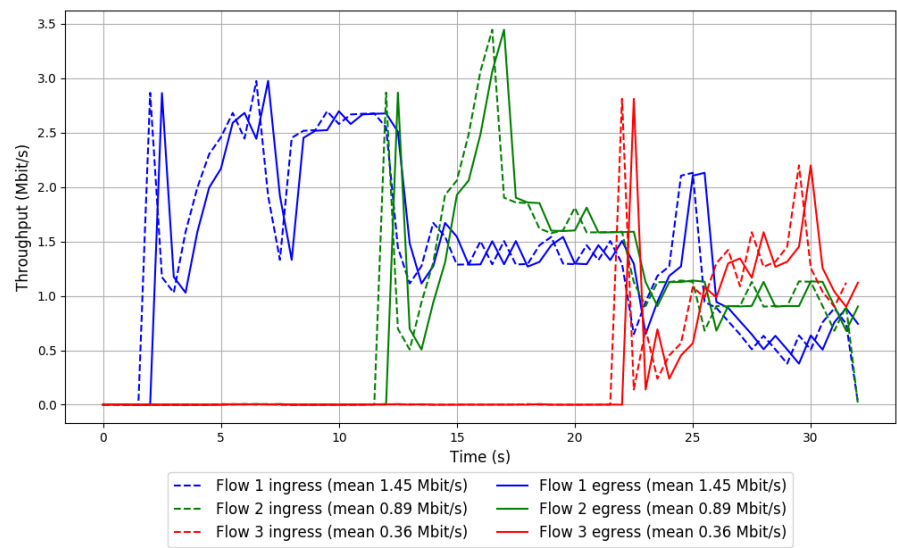
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 3.072 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link





Run 3: Statistics of WebRTC media

Start at: 2019-01-03 10:33:49

End at: 2019-01-03 10:34:19

Local clock offset: -7.067 ms

Remote clock offset: 0.64 ms

# Below is generated by plot.py at 2019-01-03 11:43:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.74 Mbit/s

95th percentile per-packet one-way delay: 3.105 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 3.098 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.86 Mbit/s

95th percentile per-packet one-way delay: 3.112 ms

Loss rate: 0.00%

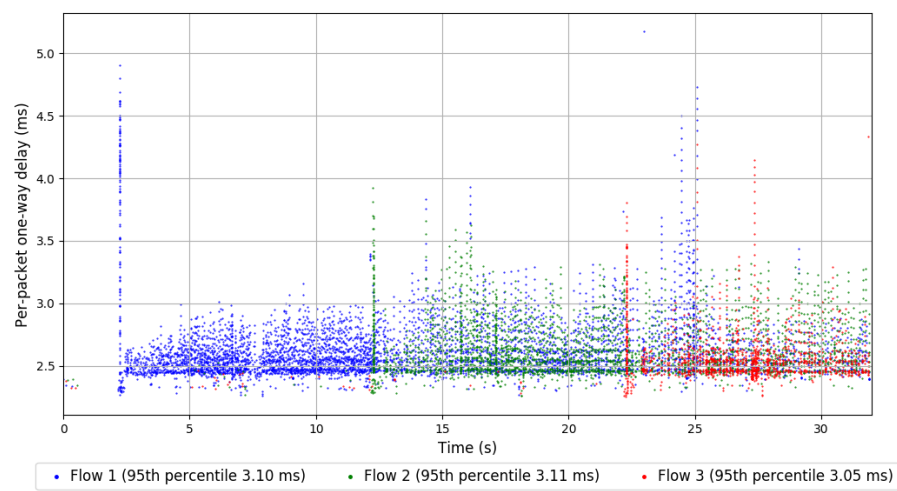
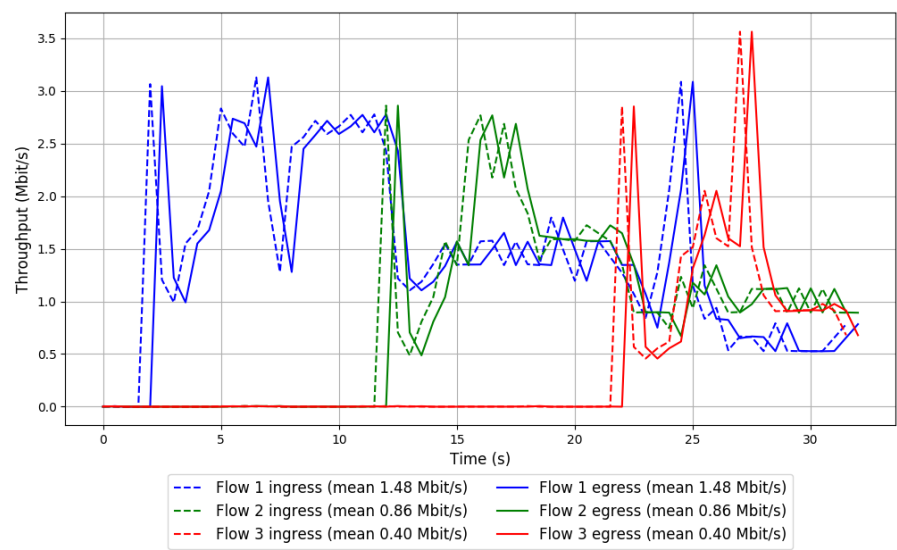
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 3.051 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-01-03 10:55:48

End at: 2019-01-03 10:56:18

Local clock offset: -7.908 ms

Remote clock offset: 0.727 ms

# Below is generated by plot.py at 2019-01-03 11:43:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.60 Mbit/s

95th percentile per-packet one-way delay: 2.284 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 2.220 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.88 Mbit/s

95th percentile per-packet one-way delay: 2.314 ms

Loss rate: 0.00%

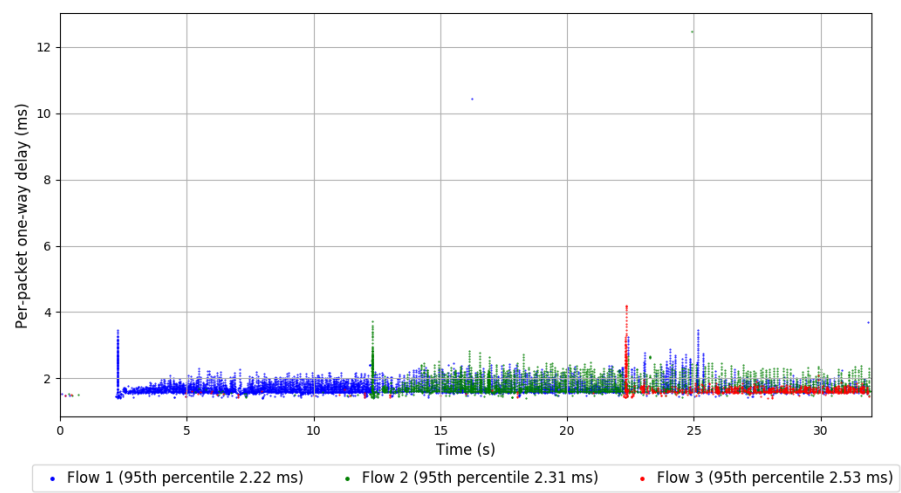
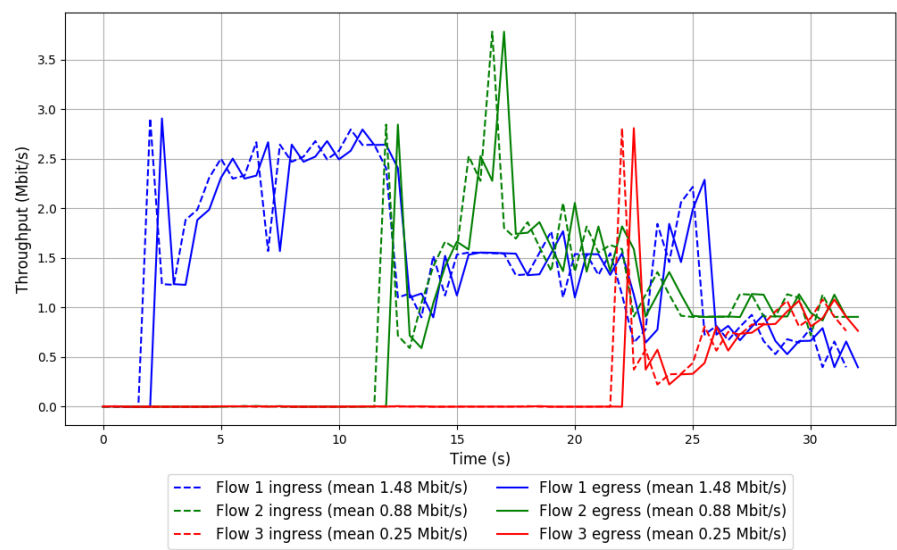
-- Flow 3:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 2.533 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-01-03 11:17:47

End at: 2019-01-03 11:18:17

Local clock offset: -7.076 ms

Remote clock offset: 0.832 ms

# Below is generated by plot.py at 2019-01-03 11:43:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.77 Mbit/s

95th percentile per-packet one-way delay: 3.163 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.47 Mbit/s

95th percentile per-packet one-way delay: 3.076 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.86 Mbit/s

95th percentile per-packet one-way delay: 2.981 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 3.558 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

