

## Pantheon Report

Generated at 2018-12-01 10:21:05 (UTC).

Data path: GCE Tokyo on `ens4` (*remote*) → GCE Sydney on `ens4` (*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 `time.google.com` and have been applied to correct the timestamps in logs.

### System info:

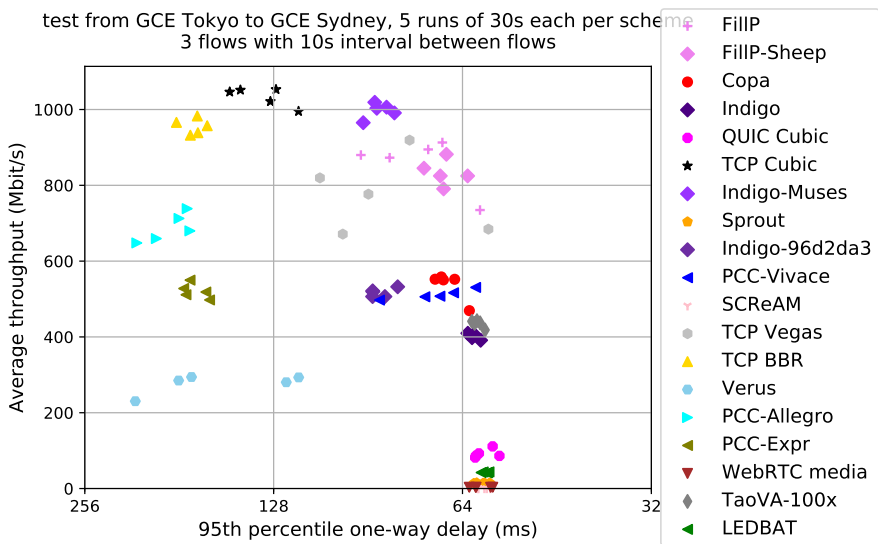
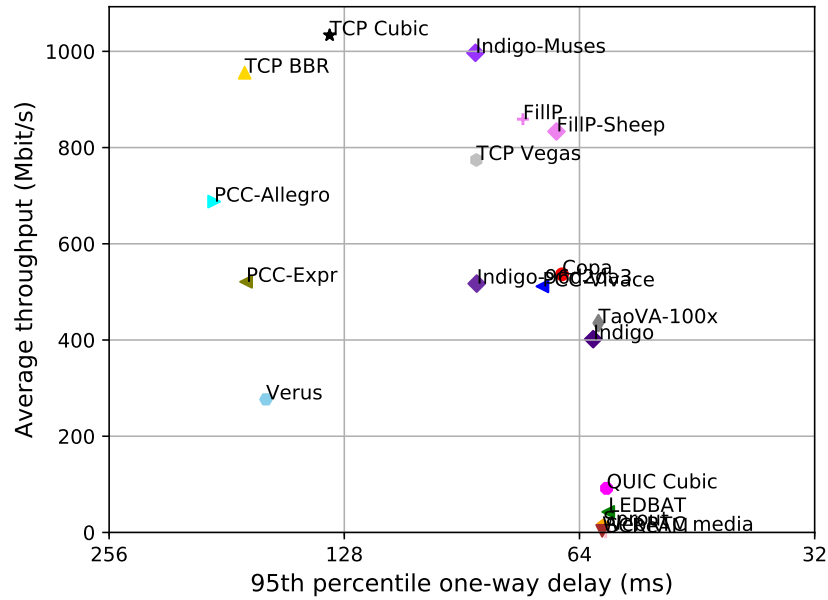
```
Linux 4.15.0-1024-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ 7b6dad87cde3ab65f7c4052140eb54098aa58e9d
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-96d2da3 @ 8413272d46f8aa0bcb967ed7048b6a8f994abb95
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 65ac1b19bbefed0c6349ae986009b4fa8643c40a
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 GCE Tokyo to GCE Sydney, 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	490.57	478.69	444.89	170.16	170.17	171.24	1.45	1.52	2.61
Copa	5	275.79	269.51	247.42	64.04	68.61	76.28	0.38	0.55	1.32
TCP Cubic	5	545.16	513.09	446.26	119.30	122.02	136.51	0.40	0.76	1.52
FillP	5	516.99	383.52	266.00	82.37	63.64	61.19	0.31	0.47	1.20
FillP-Sheep	5	531.91	330.58	249.99	72.01	62.71	61.17	0.21	0.50	1.27
Indigo	5	214.04	199.25	167.35	60.15	61.46	63.70	0.38	0.58	1.23
Indigo-96d2da3	5	278.79	253.38	216.74	89.99	82.60	80.40	0.41	0.61	1.57
LEDBAT	5	27.39	18.64	8.99	58.29	58.09	58.55	0.77	1.16	2.36
Indigo-Muses	5	547.35	489.91	381.20	90.94	82.81	80.93	0.38	0.64	1.69
PCC-Allegro	5	390.72	321.82	255.86	191.76	120.33	161.65	4.37	1.78	2.30
PCC-Expr	5	307.25	249.69	146.54	173.68	164.81	81.32	4.77	2.61	1.67
QUIC Cubic	5	55.66	41.03	25.75	58.40	59.09	56.96	0.58	0.83	1.41
SCReAM	5	0.22	0.22	0.22	58.60	57.88	57.25	0.38	0.61	1.01
Sprout	5	7.45	7.21	6.49	58.31	58.62	59.36	0.43	0.69	1.57
TaoVA-100x	5	221.44	215.71	213.17	59.40	60.38	59.86	0.39	0.62	1.26
TCP Vegas	5	415.79	339.69	402.16	76.68	89.83	94.63	0.28	0.49	1.24
Verus	5	157.74	119.13	122.96	134.20	112.38	154.63	0.77	1.08	3.22
PCC-Vivace	5	325.56	240.54	80.39	84.93	71.89	58.26	0.56	0.59	1.56
WebRTC media	5	1.78	1.14	0.44	58.48	59.16	59.18	0.54	0.61	1.27



Run 1: Statistics of TCP BBR

Start at: 2018-12-01 04:52:26

End at: 2018-12-01 04:52:56

Local clock offset: 0.127 ms

Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2018-12-01 07:55:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 957.25 Mbit/s

95th percentile per-packet one-way delay: 163.342 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 461.22 Mbit/s

95th percentile per-packet one-way delay: 167.717 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 520.94 Mbit/s

95th percentile per-packet one-way delay: 149.960 ms

Loss rate: 1.31%

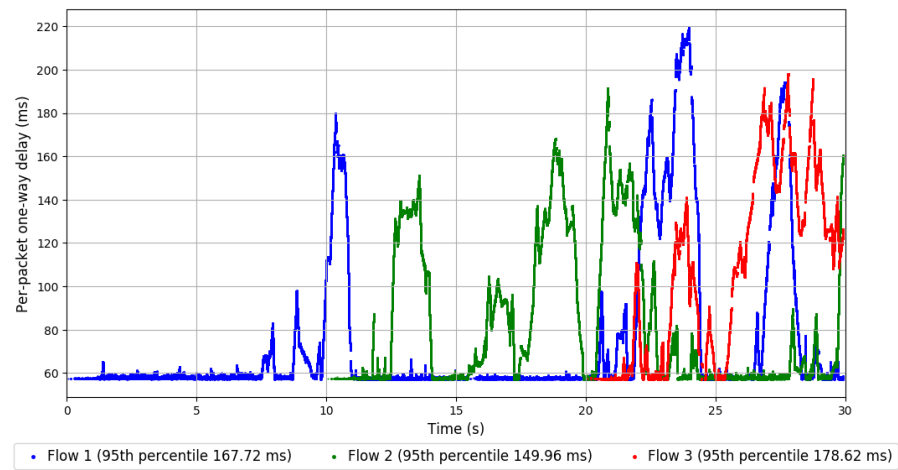
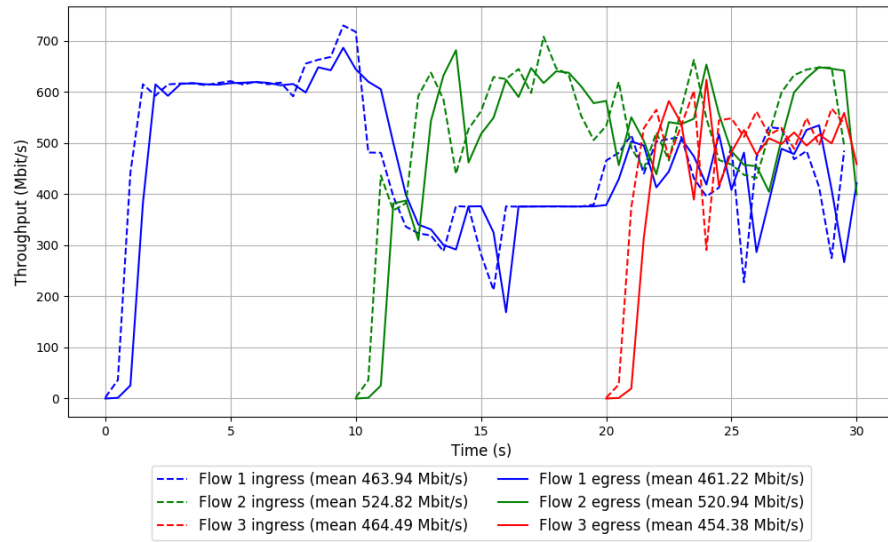
-- Flow 3:

Average throughput: 454.38 Mbit/s

95th percentile per-packet one-way delay: 178.622 ms

Loss rate: 3.34%

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



Run 2: Statistics of TCP BBR

Start at: 2018-12-01 05:28:17

End at: 2018-12-01 05:28:47

Local clock offset: -0.037 ms

Remote clock offset: -0.86 ms

# Below is generated by plot.py at 2018-12-01 07:55:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 938.79 Mbit/s

95th percentile per-packet one-way delay: 169.033 ms

Loss rate: 1.50%

-- Flow 1:

Average throughput: 498.46 Mbit/s

95th percentile per-packet one-way delay: 171.284 ms

Loss rate: 1.69%

-- Flow 2:

Average throughput: 456.59 Mbit/s

95th percentile per-packet one-way delay: 161.482 ms

Loss rate: 0.94%

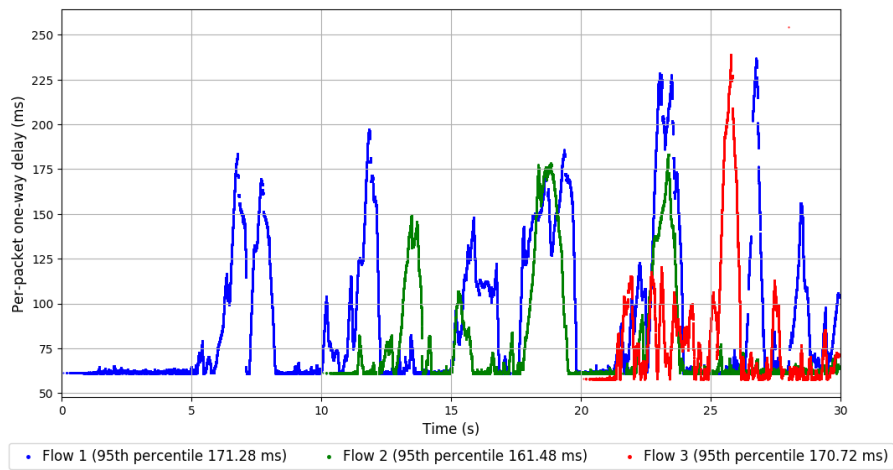
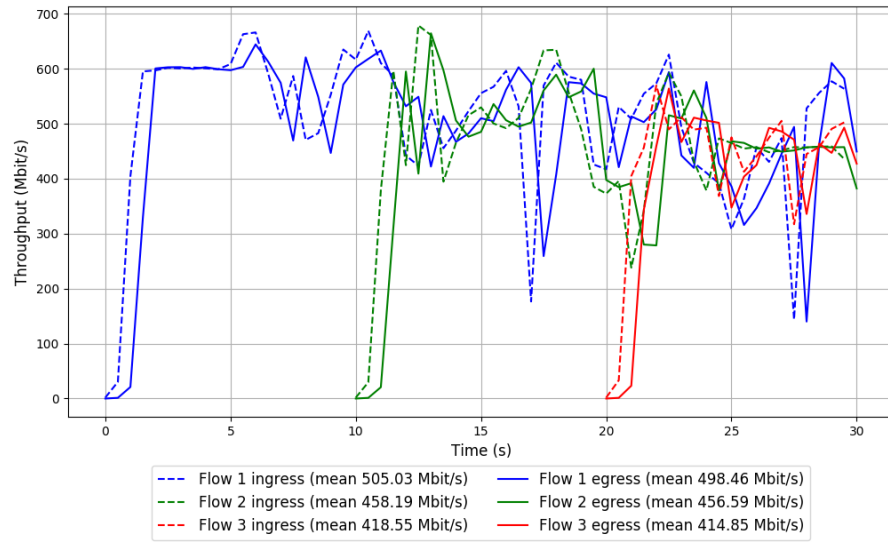
-- Flow 3:

Average throughput: 414.85 Mbit/s

95th percentile per-packet one-way delay: 170.723 ms

Loss rate: 2.04%

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



Run 3: Statistics of TCP BBR

Start at: 2018-12-01 06:04:18

End at: 2018-12-01 06:04:48

Local clock offset: -0.535 ms

Remote clock offset: 0.454 ms

# Below is generated by plot.py at 2018-12-01 07:56:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 982.96 Mbit/s

95th percentile per-packet one-way delay: 169.394 ms

Loss rate: 1.33%

-- Flow 1:

Average throughput: 506.16 Mbit/s

95th percentile per-packet one-way delay: 163.251 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 497.39 Mbit/s

95th percentile per-packet one-way delay: 173.679 ms

Loss rate: 1.68%

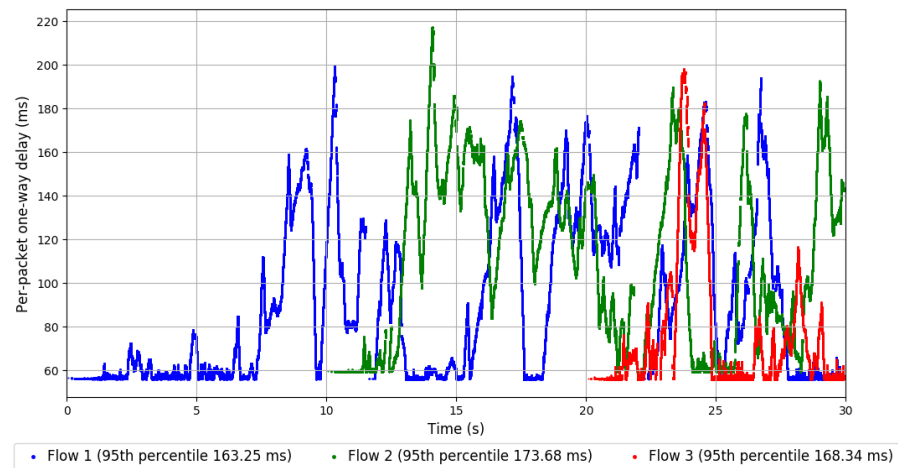
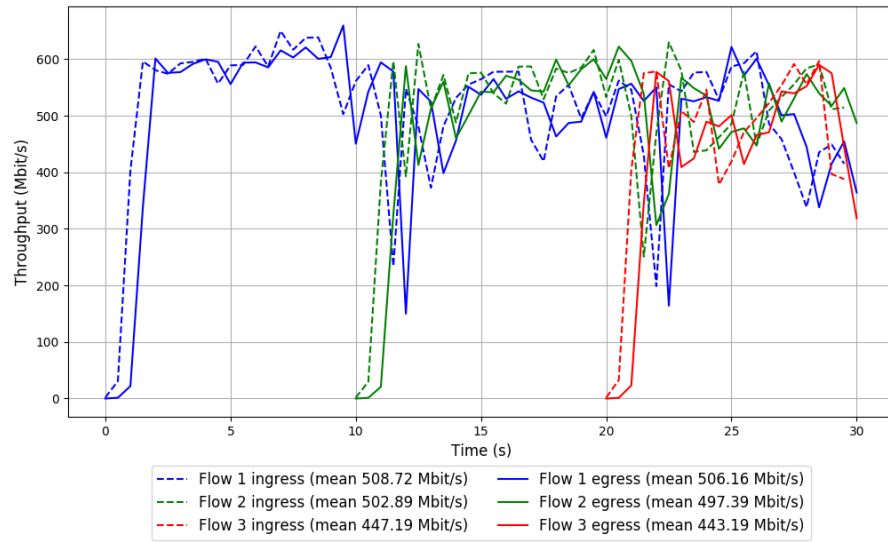
-- Flow 3:

Average throughput: 443.19 Mbit/s

95th percentile per-packet one-way delay: 168.338 ms

Loss rate: 2.05%

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

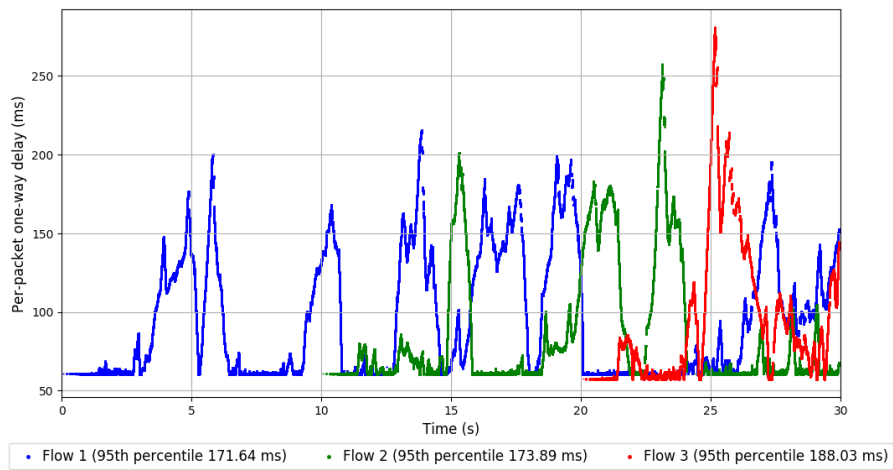
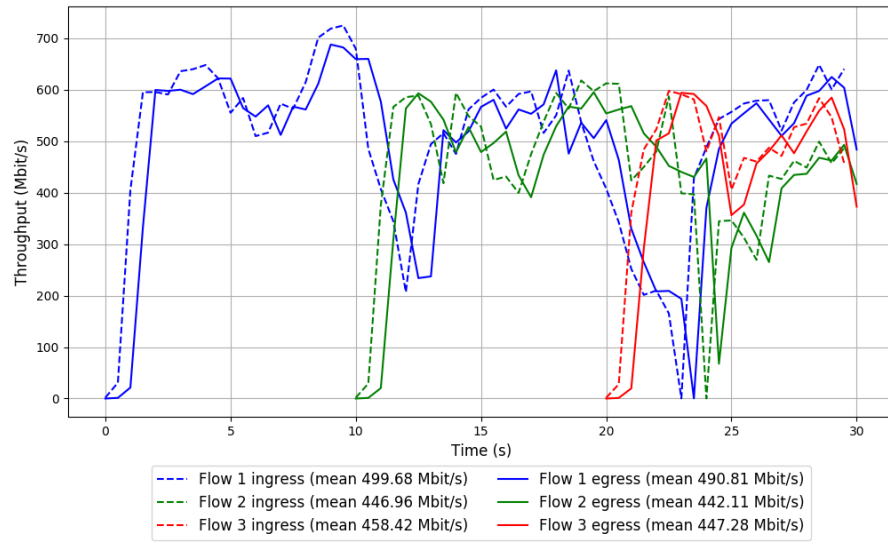


Run 4: Statistics of TCP BBR

Start at: 2018-12-01 06:40:52  
End at: 2018-12-01 06:41:22  
Local clock offset: -0.389 ms  
Remote clock offset: -0.709 ms

# Below is generated by plot.py at 2018-12-01 07:56:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 932.25 Mbit/s  
95th percentile per-packet one-way delay: 173.775 ms  
Loss rate: 2.23%  
-- Flow 1:  
Average throughput: 490.81 Mbit/s  
95th percentile per-packet one-way delay: 171.640 ms  
Loss rate: 2.16%  
-- Flow 2:  
Average throughput: 442.11 Mbit/s  
95th percentile per-packet one-way delay: 173.886 ms  
Loss rate: 1.67%  
-- Flow 3:  
Average throughput: 447.28 Mbit/s  
95th percentile per-packet one-way delay: 188.032 ms  
Loss rate: 3.56%

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



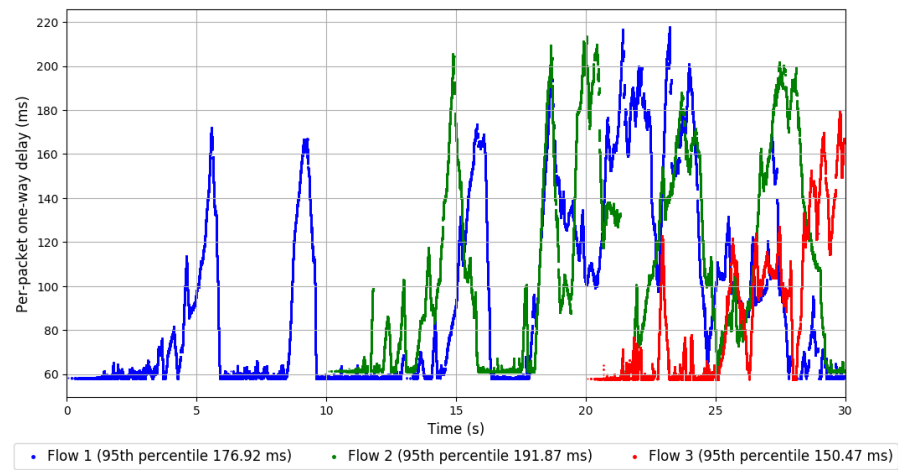
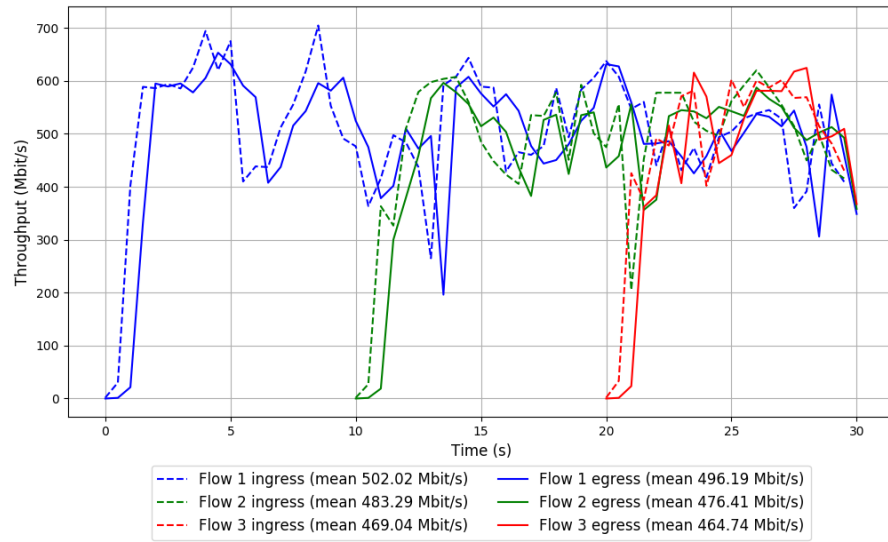


Run 5: Statistics of TCP BBR

Start at: 2018-12-01 07:17:24  
End at: 2018-12-01 07:17:54  
Local clock offset: -0.109 ms  
Remote clock offset: -0.807 ms

# Below is generated by plot.py at 2018-12-01 07:56:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 966.06 Mbit/s  
95th percentile per-packet one-way delay: 182.877 ms  
Loss rate: 1.78%  
-- Flow 1:  
Average throughput: 496.19 Mbit/s  
95th percentile per-packet one-way delay: 176.923 ms  
Loss rate: 1.54%  
-- Flow 2:  
Average throughput: 476.41 Mbit/s  
95th percentile per-packet one-way delay: 191.866 ms  
Loss rate: 2.01%  
-- Flow 3:  
Average throughput: 464.74 Mbit/s  
95th percentile per-packet one-way delay: 150.470 ms  
Loss rate: 2.07%

# Run 5: Report of TCP BBR — Data Link

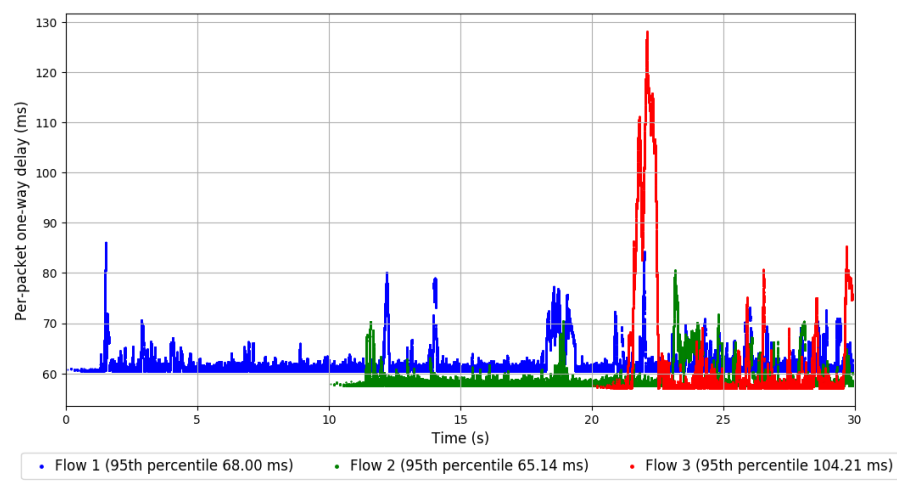
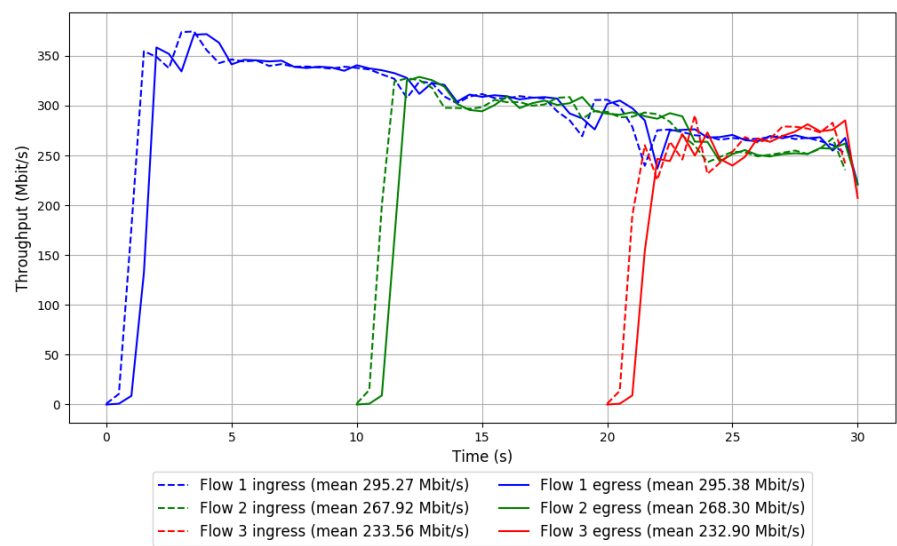


Run 1: Statistics of Copa

Start at: 2018-12-01 04:35:47  
End at: 2018-12-01 04:36:17  
Local clock offset: 0.191 ms  
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2018-12-01 07:56:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 550.48 Mbit/s  
95th percentile per-packet one-way delay: 68.646 ms  
Loss rate: 0.54%  
-- Flow 1:  
Average throughput: 295.38 Mbit/s  
95th percentile per-packet one-way delay: 68.002 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 268.30 Mbit/s  
95th percentile per-packet one-way delay: 65.141 ms  
Loss rate: 0.45%  
-- Flow 3:  
Average throughput: 232.90 Mbit/s  
95th percentile per-packet one-way delay: 104.207 ms  
Loss rate: 1.43%

Run 1: Report of Copa — Data Link

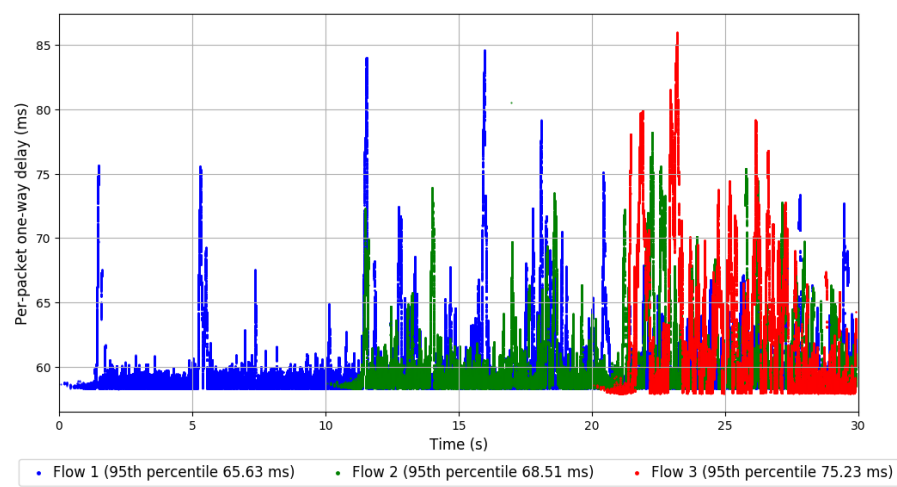
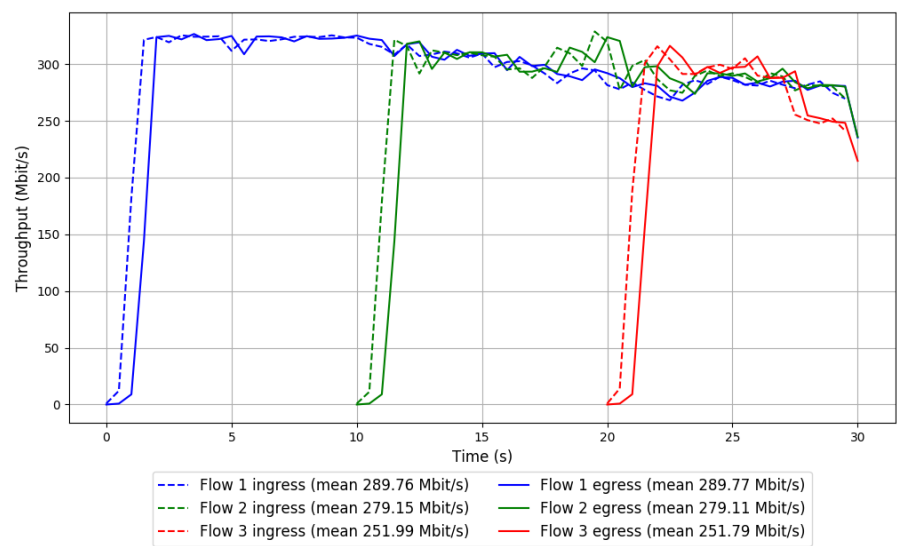


Run 2: Statistics of Copa

Start at: 2018-12-01 05:11:41  
End at: 2018-12-01 05:12:11  
Local clock offset: 0.231 ms  
Remote clock offset: -0.952 ms

# Below is generated by plot.py at 2018-12-01 07:57:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 558.30 Mbit/s  
95th percentile per-packet one-way delay: 69.164 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 289.77 Mbit/s  
95th percentile per-packet one-way delay: 65.634 ms  
Loss rate: 0.39%  
-- Flow 2:  
Average throughput: 279.11 Mbit/s  
95th percentile per-packet one-way delay: 68.514 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 251.79 Mbit/s  
95th percentile per-packet one-way delay: 75.235 ms  
Loss rate: 1.21%

Run 2: Report of Copa — Data Link

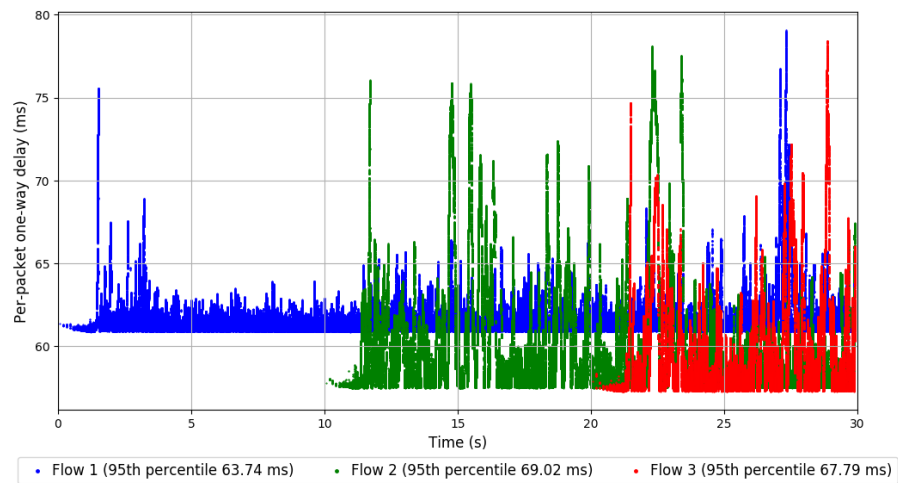
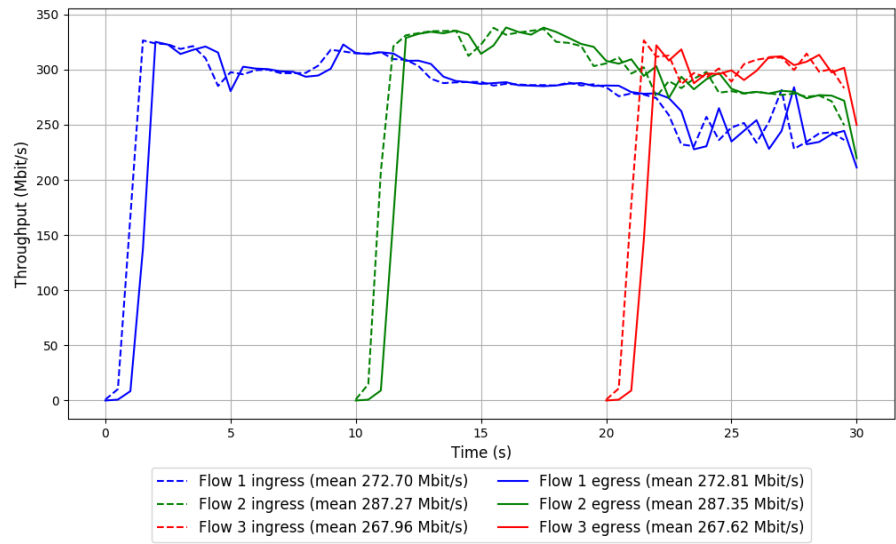


Run 3: Statistics of Copa

Start at: 2018-12-01 05:47:42  
End at: 2018-12-01 05:48:12  
Local clock offset: 0.116 ms  
Remote clock offset: -0.203 ms

# Below is generated by plot.py at 2018-12-01 07:57:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 552.09 Mbit/s  
95th percentile per-packet one-way delay: 65.866 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 272.81 Mbit/s  
95th percentile per-packet one-way delay: 63.743 ms  
Loss rate: 0.36%  
-- Flow 2:  
Average throughput: 287.35 Mbit/s  
95th percentile per-packet one-way delay: 69.017 ms  
Loss rate: 0.54%  
-- Flow 3:  
Average throughput: 267.62 Mbit/s  
95th percentile per-packet one-way delay: 67.793 ms  
Loss rate: 1.28%

### Run 3: Report of Copa — Data Link



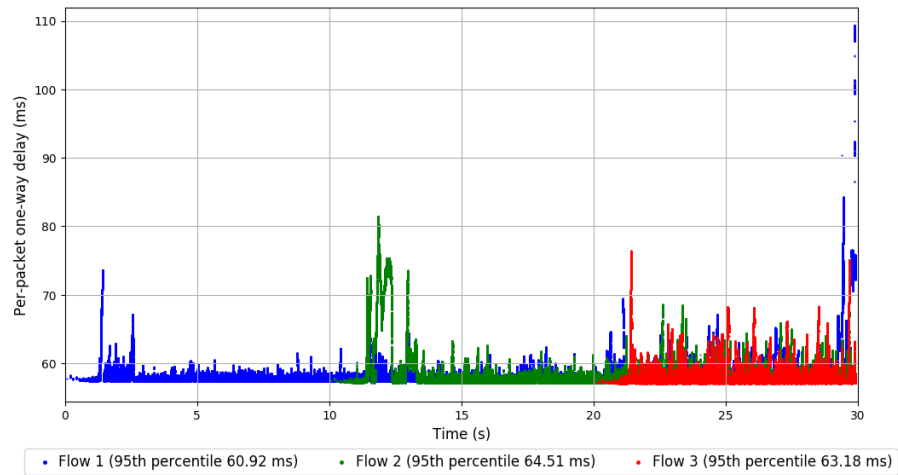
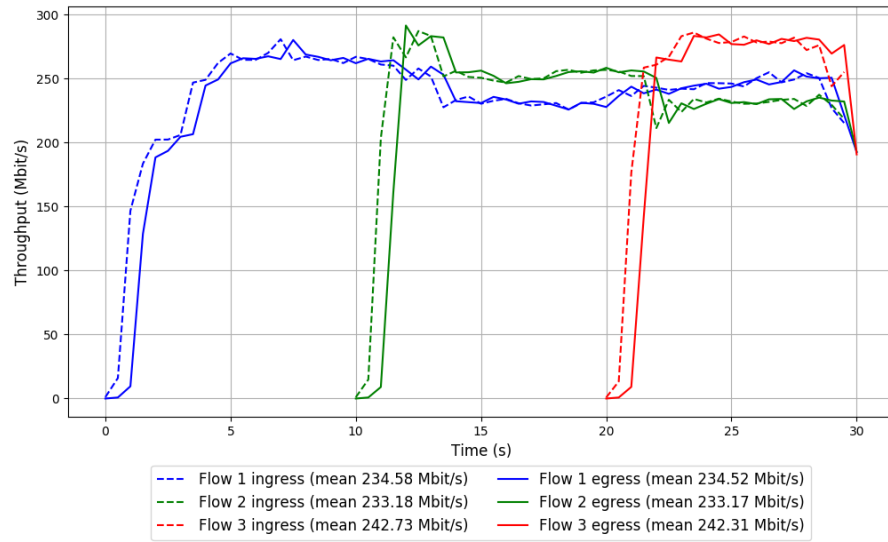


Run 4: Statistics of Copa

Start at: 2018-12-01 06:23:56  
End at: 2018-12-01 06:24:26  
Local clock offset: -0.034 ms  
Remote clock offset: -0.366 ms

# Below is generated by plot.py at 2018-12-01 08:12:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 469.36 Mbit/s  
95th percentile per-packet one-way delay: 62.407 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 234.52 Mbit/s  
95th percentile per-packet one-way delay: 60.916 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 233.17 Mbit/s  
95th percentile per-packet one-way delay: 64.511 ms  
Loss rate: 0.57%  
-- Flow 3:  
Average throughput: 242.31 Mbit/s  
95th percentile per-packet one-way delay: 63.178 ms  
Loss rate: 1.33%

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



Run 5: Statistics of Copa

Start at: 2018-12-01 07:00:41

End at: 2018-12-01 07:01:11

Local clock offset: 0.241 ms

Remote clock offset: 0.619 ms

# Below is generated by plot.py at 2018-12-01 08:16:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 552.25 Mbit/s

95th percentile per-packet one-way delay: 70.768 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 286.49 Mbit/s

95th percentile per-packet one-way delay: 61.897 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 279.60 Mbit/s

95th percentile per-packet one-way delay: 75.868 ms

Loss rate: 0.57%

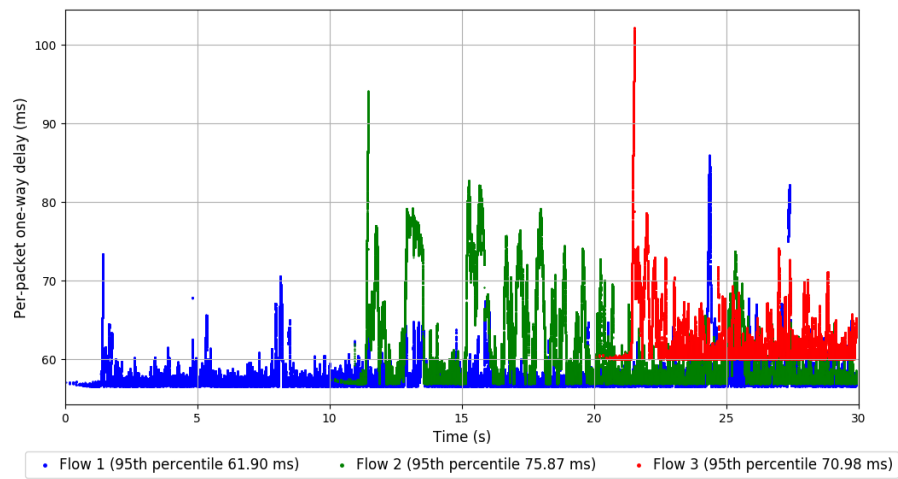
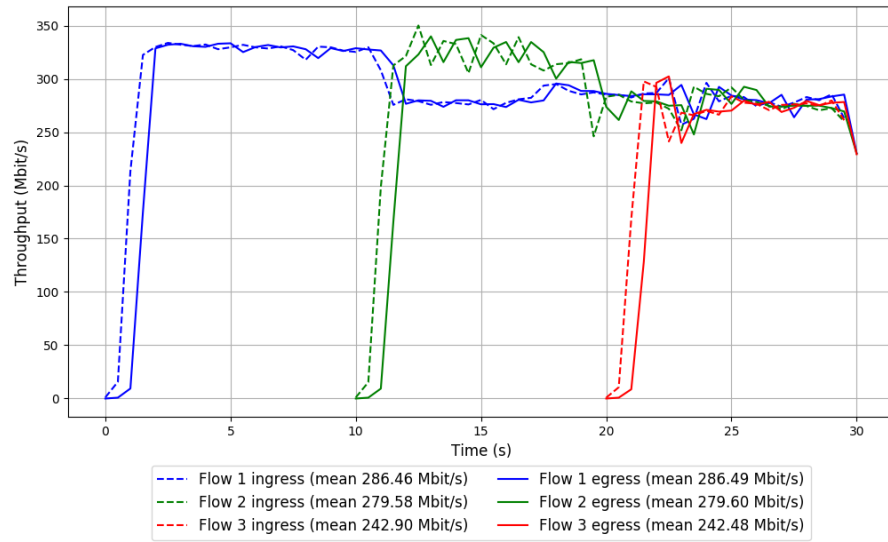
-- Flow 3:

Average throughput: 242.48 Mbit/s

95th percentile per-packet one-way delay: 70.978 ms

Loss rate: 1.36%

## Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-12-01 04:40:15

End at: 2018-12-01 04:40:45

Local clock offset: -0.217 ms

Remote clock offset: -0.66 ms

# Below is generated by plot.py at 2018-12-01 08:16:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 995.19 Mbit/s

95th percentile per-packet one-way delay: 116.829 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 531.20 Mbit/s

95th percentile per-packet one-way delay: 96.668 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 491.69 Mbit/s

95th percentile per-packet one-way delay: 118.748 ms

Loss rate: 0.59%

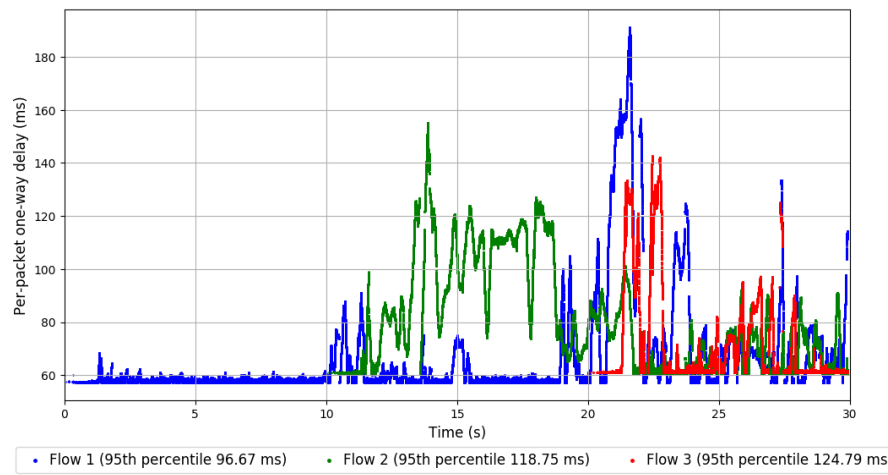
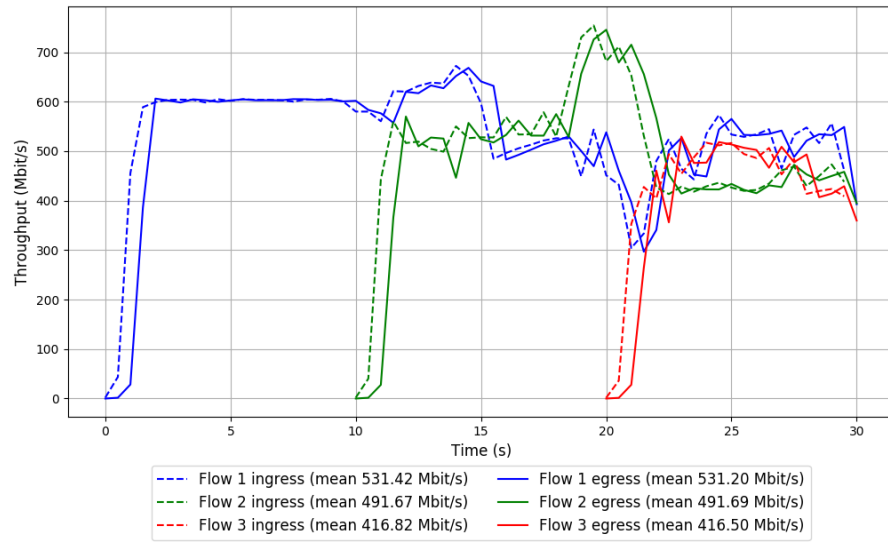
-- Flow 3:

Average throughput: 416.50 Mbit/s

95th percentile per-packet one-way delay: 124.788 ms

Loss rate: 1.25%

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

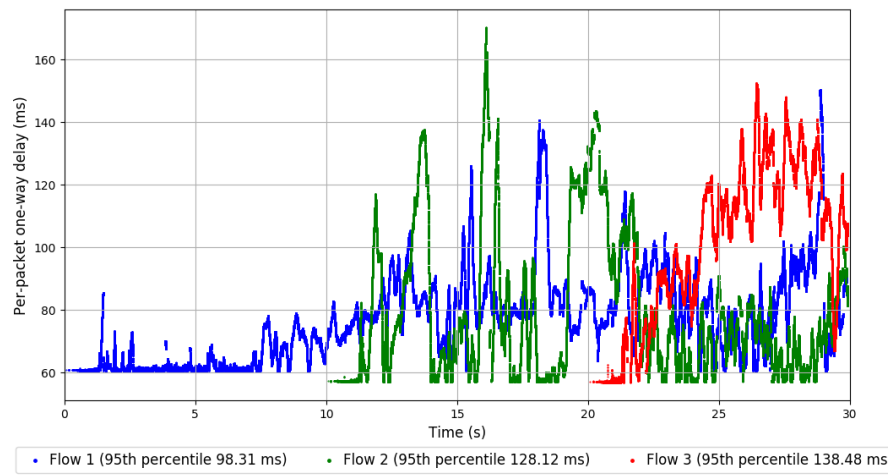
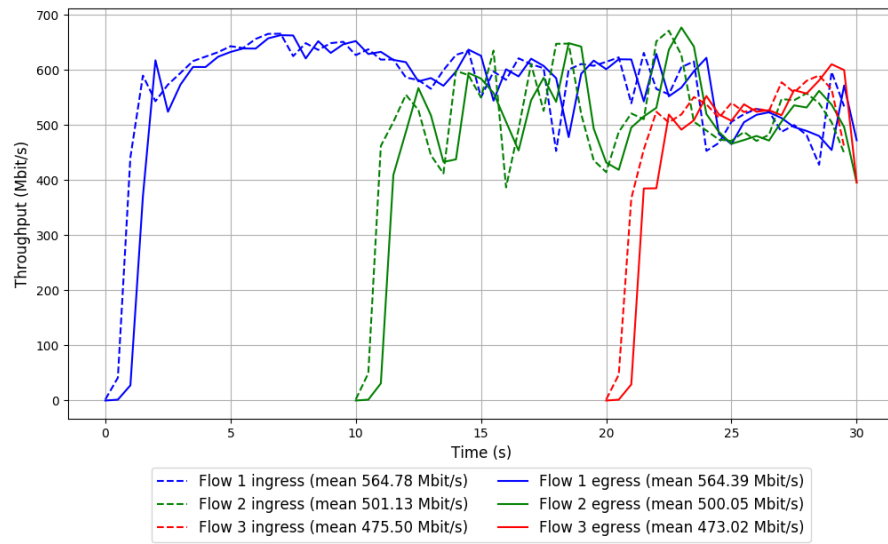


Run 2: Statistics of TCP Cubic

Start at: 2018-12-01 05:16:18  
End at: 2018-12-01 05:16:48  
Local clock offset: -0.007 ms  
Remote clock offset: -0.235 ms

# Below is generated by plot.py at 2018-12-01 08:16:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1052.90 Mbit/s  
95th percentile per-packet one-way delay: 126.902 ms  
Loss rate: 0.74%  
-- Flow 1:  
Average throughput: 564.39 Mbit/s  
95th percentile per-packet one-way delay: 98.314 ms  
Loss rate: 0.46%  
-- Flow 2:  
Average throughput: 500.05 Mbit/s  
95th percentile per-packet one-way delay: 128.118 ms  
Loss rate: 0.79%  
-- Flow 3:  
Average throughput: 473.02 Mbit/s  
95th percentile per-packet one-way delay: 138.481 ms  
Loss rate: 1.68%

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



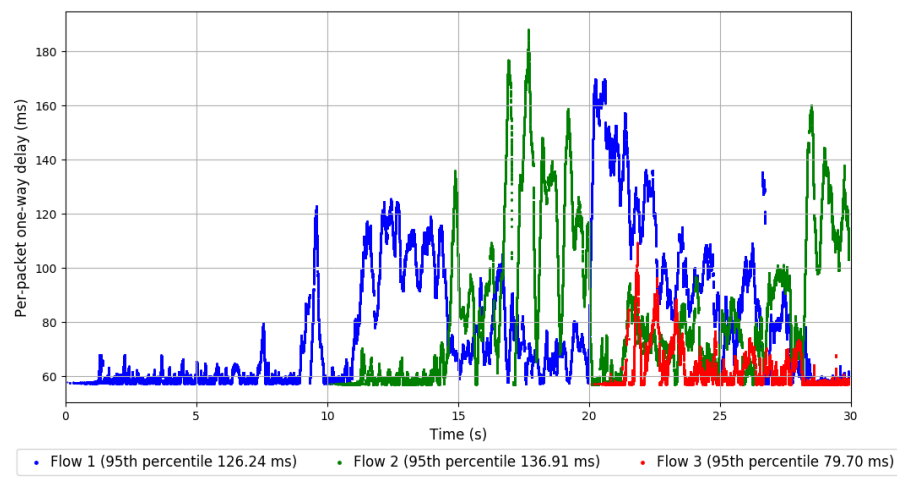
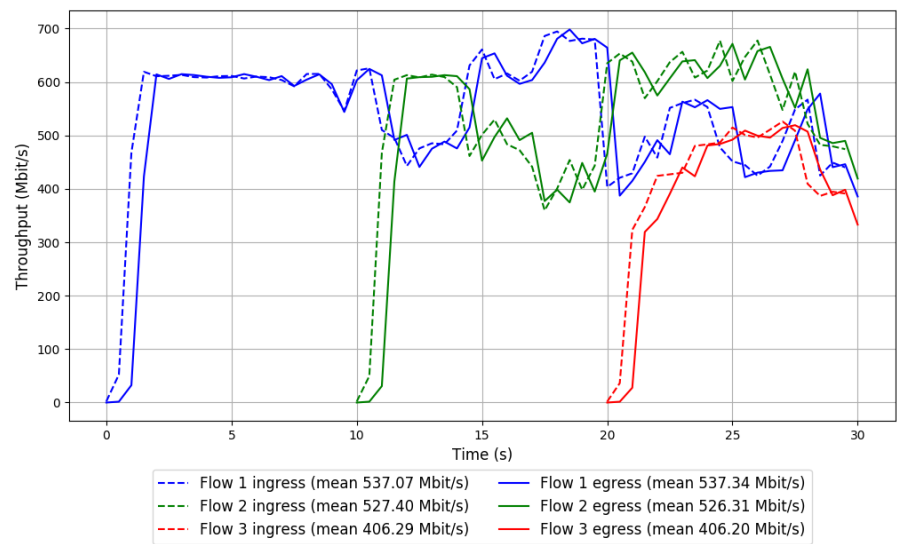


Run 3: Statistics of TCP Cubic

Start at: 2018-12-01 05:52:30  
End at: 2018-12-01 05:53:01  
Local clock offset: -0.13 ms  
Remote clock offset: -0.108 ms

# Below is generated by plot.py at 2018-12-01 08:16:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1021.28 Mbit/s  
95th percentile per-packet one-way delay: 129.528 ms  
Loss rate: 0.60%  
-- Flow 1:  
Average throughput: 537.34 Mbit/s  
95th percentile per-packet one-way delay: 126.244 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 526.31 Mbit/s  
95th percentile per-packet one-way delay: 136.915 ms  
Loss rate: 0.78%  
-- Flow 3:  
Average throughput: 406.20 Mbit/s  
95th percentile per-packet one-way delay: 79.696 ms  
Loss rate: 1.17%

Run 3: Report of TCP Cubic — Data Link

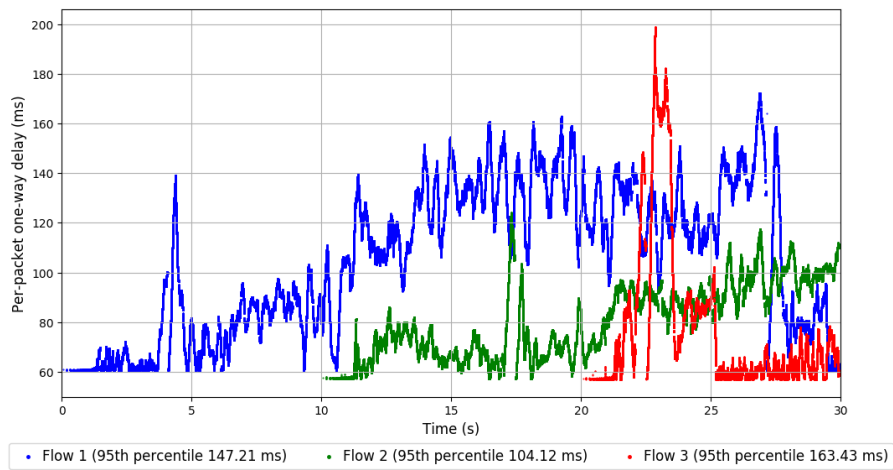
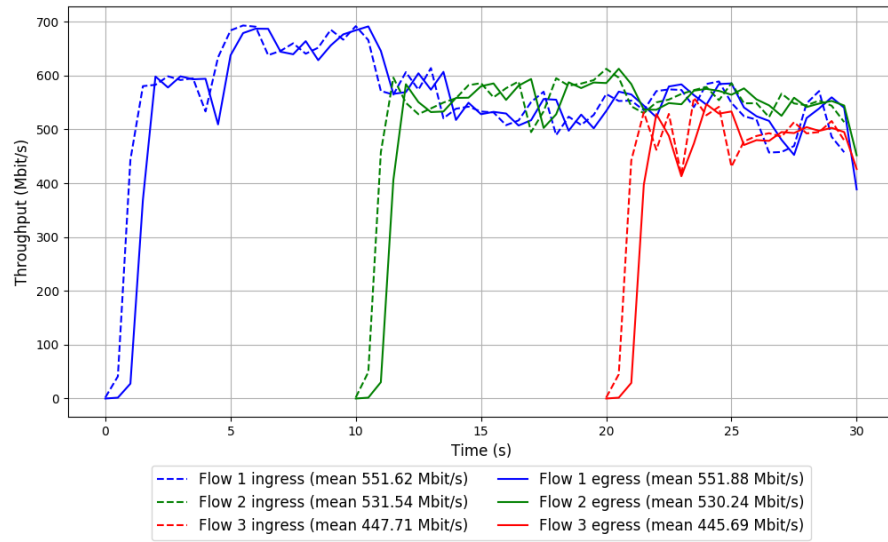


Run 4: Statistics of TCP Cubic

Start at: 2018-12-01 06:28:22  
End at: 2018-12-01 06:28:52  
Local clock offset: -0.072 ms  
Remote clock offset: -0.294 ms

# Below is generated by plot.py at 2018-12-01 08:18:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1051.50 Mbit/s  
95th percentile per-packet one-way delay: 144.605 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 551.88 Mbit/s  
95th percentile per-packet one-way delay: 147.211 ms  
Loss rate: 0.34%  
-- Flow 2:  
Average throughput: 530.24 Mbit/s  
95th percentile per-packet one-way delay: 104.125 ms  
Loss rate: 0.81%  
-- Flow 3:  
Average throughput: 445.69 Mbit/s  
95th percentile per-packet one-way delay: 163.433 ms  
Loss rate: 1.59%

# Run 4: Report of TCP Cubic — Data Link

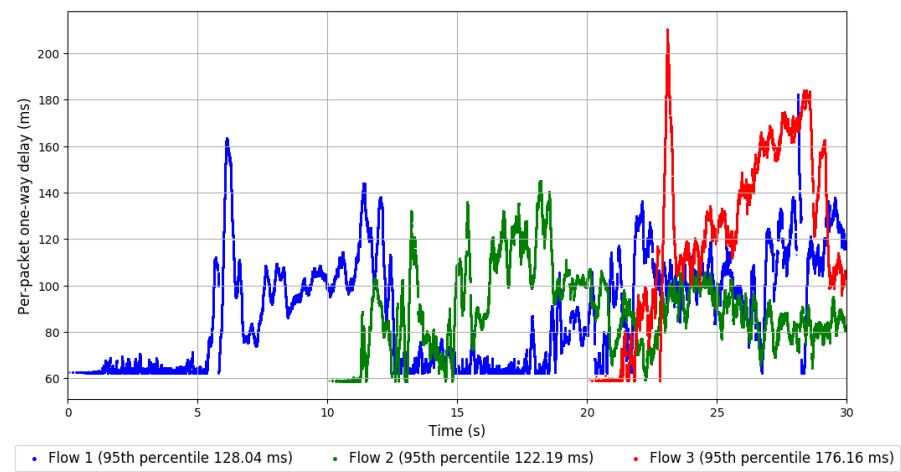
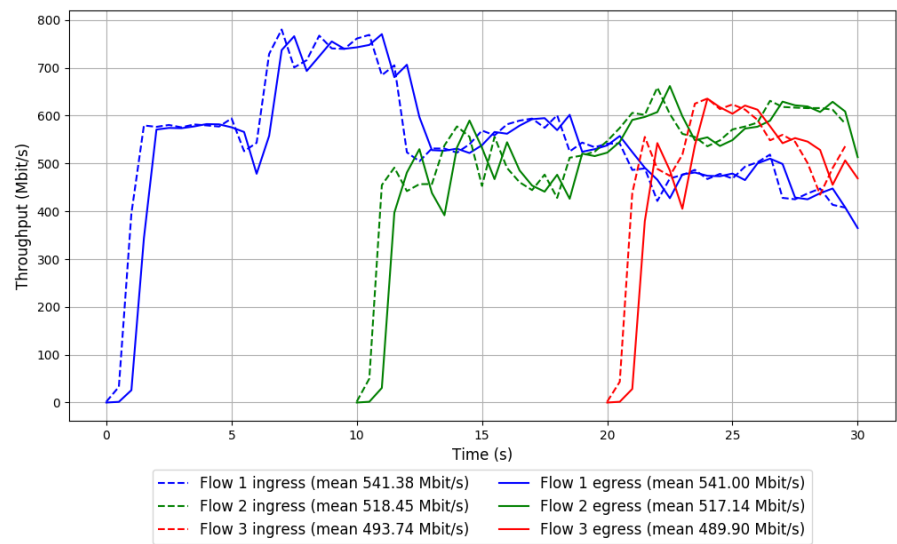


Run 5: Statistics of TCP Cubic

Start at: 2018-12-01 07:05:06  
End at: 2018-12-01 07:05:36  
Local clock offset: 0.43 ms  
Remote clock offset: -1.368 ms

# Below is generated by plot.py at 2018-12-01 08:18:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1046.42 Mbit/s  
95th percentile per-packet one-way delay: 150.415 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 541.00 Mbit/s  
95th percentile per-packet one-way delay: 128.041 ms  
Loss rate: 0.46%  
-- Flow 2:  
Average throughput: 517.14 Mbit/s  
95th percentile per-packet one-way delay: 122.194 ms  
Loss rate: 0.82%  
-- Flow 3:  
Average throughput: 489.90 Mbit/s  
95th percentile per-packet one-way delay: 176.157 ms  
Loss rate: 1.92%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-12-01 04:46:55

End at: 2018-12-01 04:47:25

Local clock offset: 0.421 ms

Remote clock offset: 0.601 ms

# Below is generated by plot.py at 2018-12-01 08:18:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 734.77 Mbit/s

95th percentile per-packet one-way delay: 60.015 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 383.46 Mbit/s

95th percentile per-packet one-way delay: 59.104 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 407.76 Mbit/s

95th percentile per-packet one-way delay: 60.637 ms

Loss rate: 0.46%

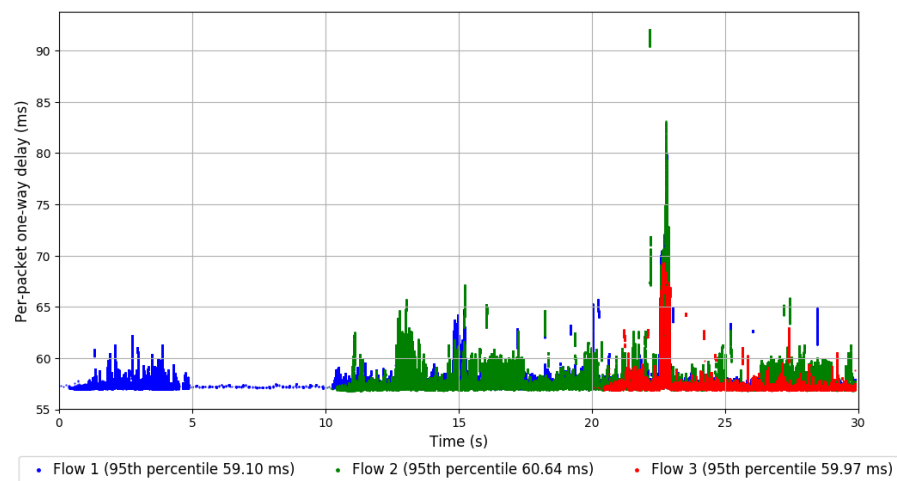
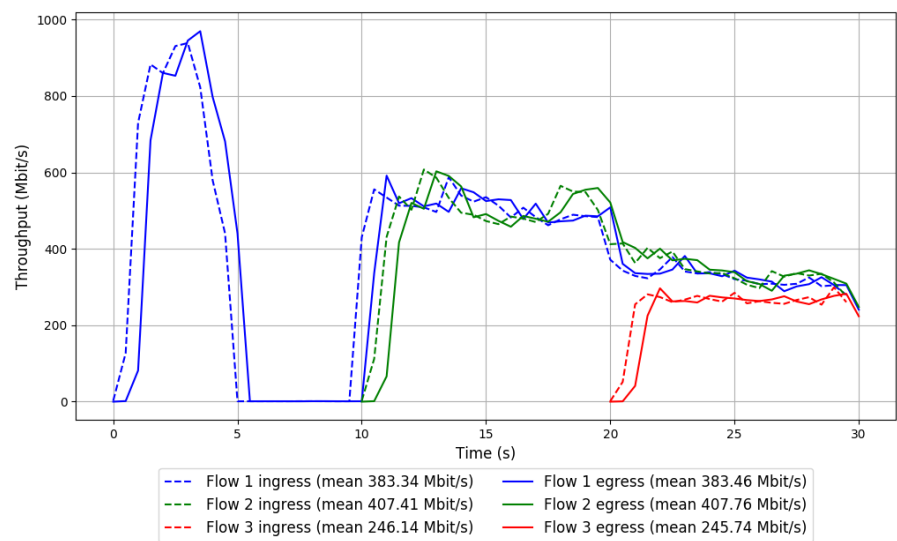
-- Flow 3:

Average throughput: 245.74 Mbit/s

95th percentile per-packet one-way delay: 59.971 ms

Loss rate: 1.25%

Run 1: Report of FillP — Data Link





Run 2: Statistics of FillP

Start at: 2018-12-01 05:22:51

End at: 2018-12-01 05:23:21

Local clock offset: 0.145 ms

Remote clock offset: 0.282 ms

# Below is generated by plot.py at 2018-12-01 08:34:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 872.87 Mbit/s

95th percentile per-packet one-way delay: 83.618 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 540.00 Mbit/s

95th percentile per-packet one-way delay: 90.928 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 365.53 Mbit/s

95th percentile per-packet one-way delay: 60.880 ms

Loss rate: 0.52%

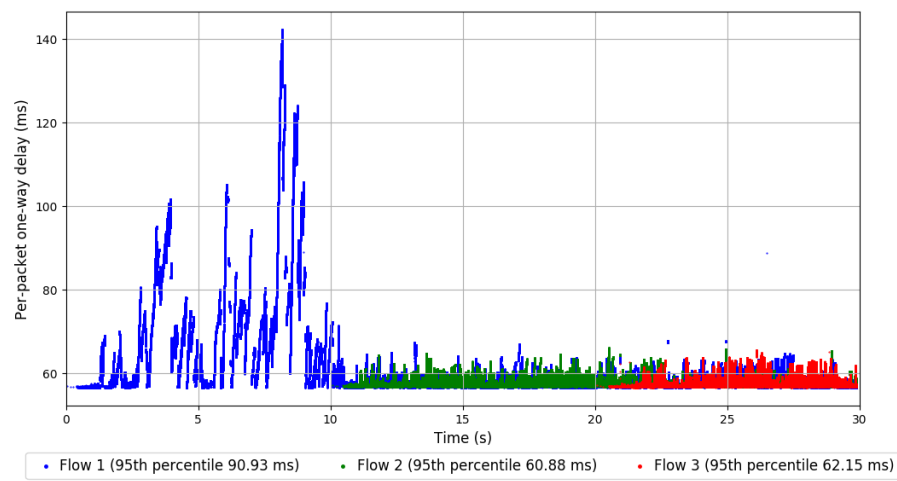
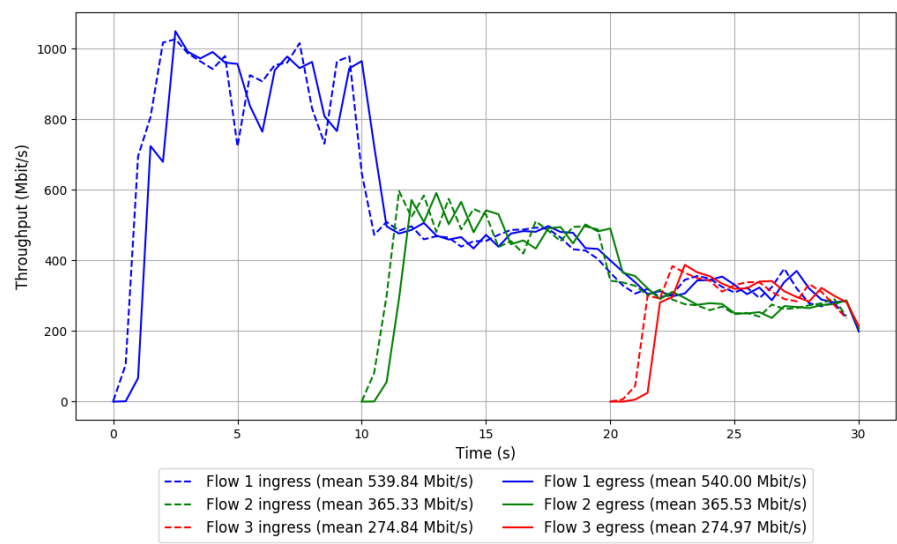
-- Flow 3:

Average throughput: 274.97 Mbit/s

95th percentile per-packet one-way delay: 62.154 ms

Loss rate: 1.04%

Run 2: Report of FillP — Data Link

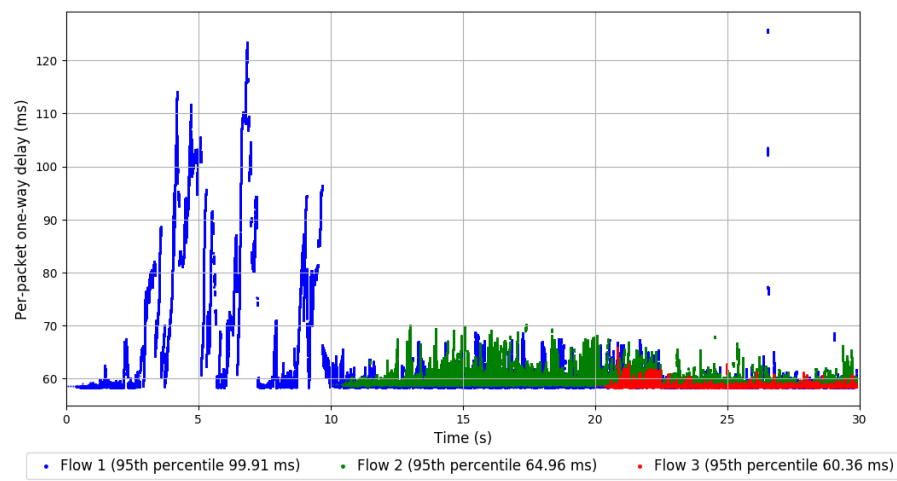
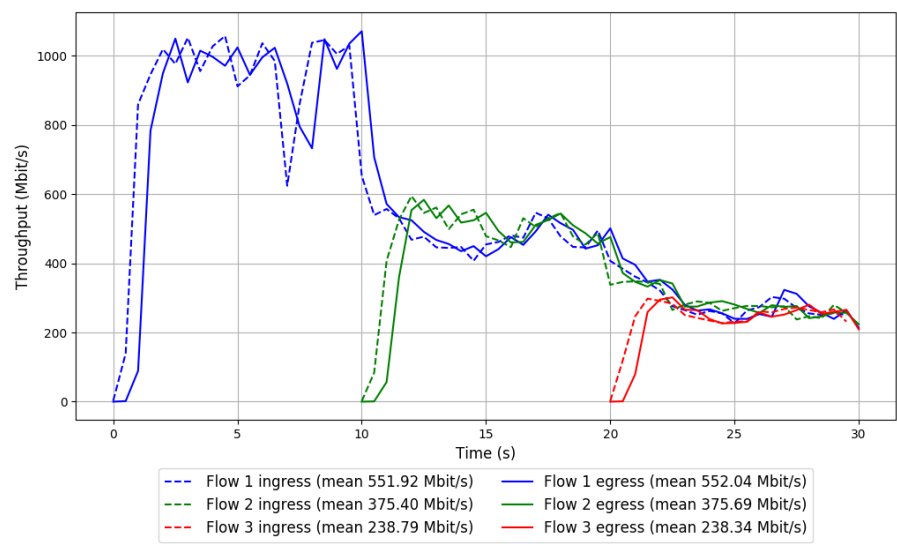


Run 3: Statistics of FillP

Start at: 2018-12-01 05:58:51  
End at: 2018-12-01 05:59:21  
Local clock offset: -0.095 ms  
Remote clock offset: -1.496 ms

# Below is generated by plot.py at 2018-12-01 08:36:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 879.92 Mbit/s  
95th percentile per-packet one-way delay: 92.930 ms  
Loss rate: 0.47%  
-- Flow 1:  
Average throughput: 552.04 Mbit/s  
95th percentile per-packet one-way delay: 99.908 ms  
Loss rate: 0.35%  
-- Flow 2:  
Average throughput: 375.69 Mbit/s  
95th percentile per-packet one-way delay: 64.957 ms  
Loss rate: 0.50%  
-- Flow 3:  
Average throughput: 238.34 Mbit/s  
95th percentile per-packet one-way delay: 60.363 ms  
Loss rate: 1.28%

Run 3: Report of FillP — Data Link

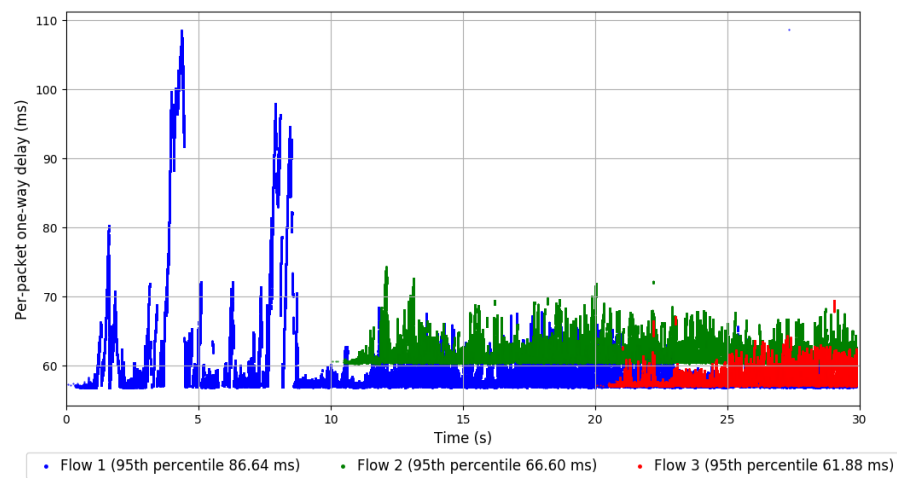
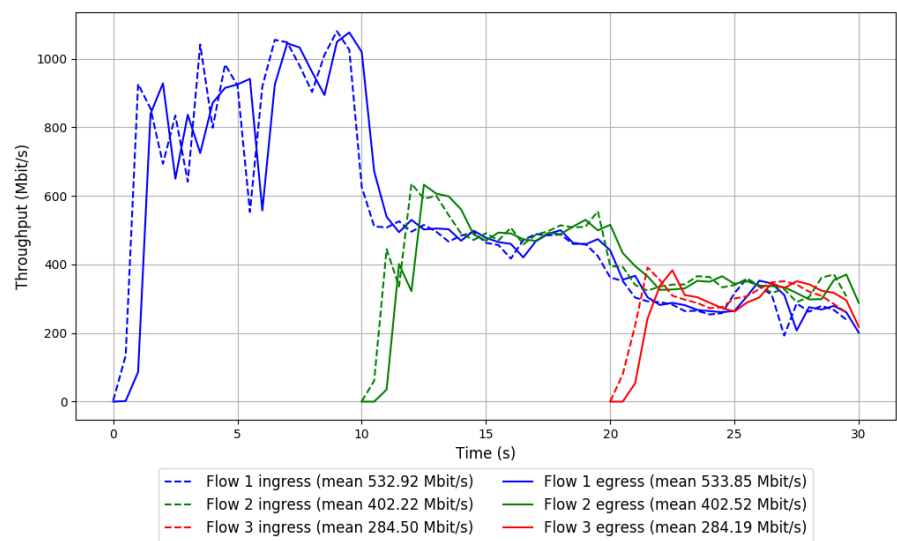


Run 4: Statistics of FillP

Start at: 2018-12-01 06:35:10  
End at: 2018-12-01 06:35:40  
Local clock offset: -0.045 ms  
Remote clock offset: -0.255 ms

# Below is generated by plot.py at 2018-12-01 08:38:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 894.63 Mbit/s  
95th percentile per-packet one-way delay: 72.590 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 533.85 Mbit/s  
95th percentile per-packet one-way delay: 86.641 ms  
Loss rate: 0.21%  
-- Flow 2:  
Average throughput: 402.52 Mbit/s  
95th percentile per-packet one-way delay: 66.603 ms  
Loss rate: 0.45%  
-- Flow 3:  
Average throughput: 284.19 Mbit/s  
95th percentile per-packet one-way delay: 61.878 ms  
Loss rate: 1.21%

Run 4: Report of FillP — Data Link

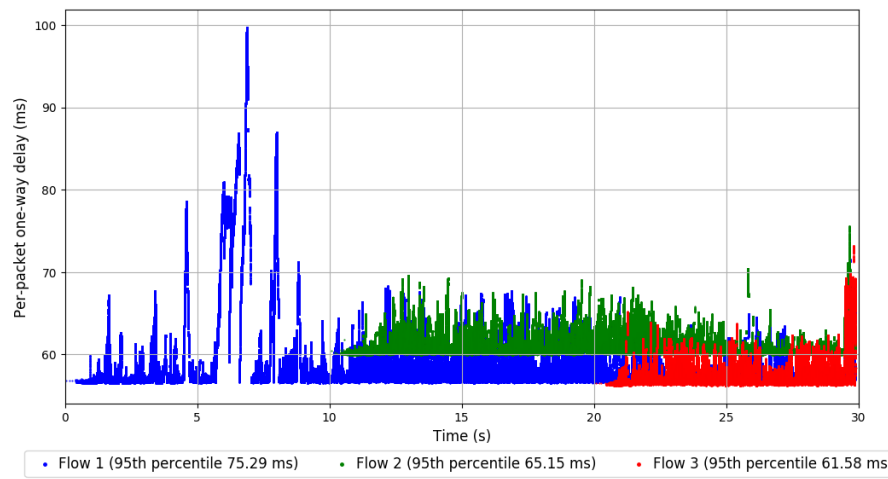
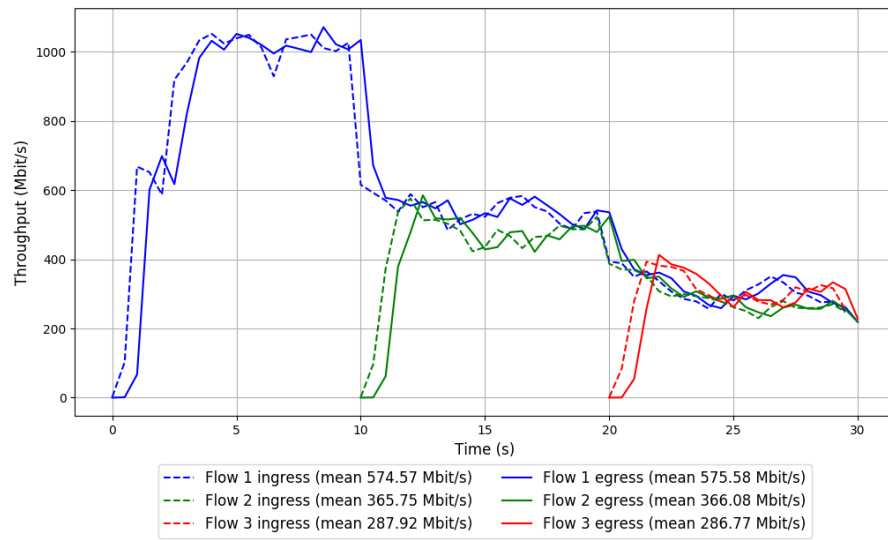


Run 5: Statistics of FillP

Start at: 2018-12-01 07:11:49  
End at: 2018-12-01 07:12:19  
Local clock offset: -0.452 ms  
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2018-12-01 08:38:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 912.99 Mbit/s  
95th percentile per-packet one-way delay: 68.906 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 575.58 Mbit/s  
95th percentile per-packet one-way delay: 75.290 ms  
Loss rate: 0.21%  
-- Flow 2:  
Average throughput: 366.08 Mbit/s  
95th percentile per-packet one-way delay: 65.146 ms  
Loss rate: 0.44%  
-- Flow 3:  
Average throughput: 286.77 Mbit/s  
95th percentile per-packet one-way delay: 61.584 ms  
Loss rate: 1.22%

## Run 5: Report of FillP — Data Link



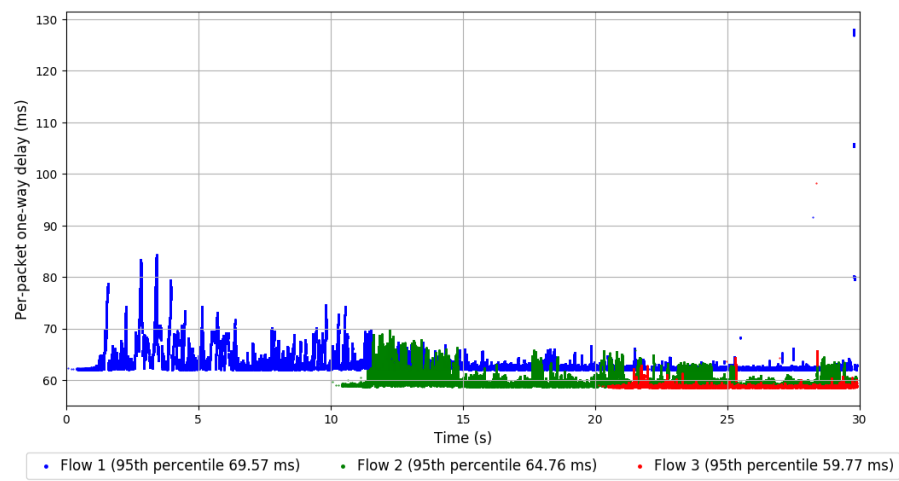
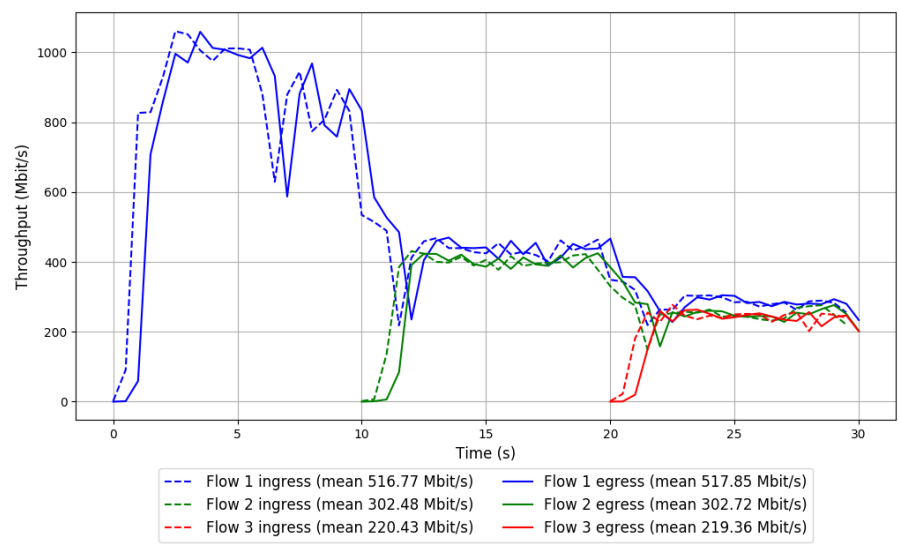


Run 1: Statistics of FillP-Sheep

Start at: 2018-12-01 04:19:27  
End at: 2018-12-01 04:19:57  
Local clock offset: 0.227 ms  
Remote clock offset: -1.519 ms

# Below is generated by plot.py at 2018-12-01 08:38:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 790.62 Mbit/s  
95th percentile per-packet one-way delay: 68.599 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 517.85 Mbit/s  
95th percentile per-packet one-way delay: 69.566 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 302.72 Mbit/s  
95th percentile per-packet one-way delay: 64.762 ms  
Loss rate: 0.46%  
-- Flow 3:  
Average throughput: 219.36 Mbit/s  
95th percentile per-packet one-way delay: 59.772 ms  
Loss rate: 1.67%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-12-01 04:54:40

End at: 2018-12-01 04:55:10

Local clock offset: -0.421 ms

Remote clock offset: 0.535 ms

# Below is generated by plot.py at 2018-12-01 08:38:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 845.15 Mbit/s

95th percentile per-packet one-way delay: 73.727 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 538.68 Mbit/s

95th percentile per-packet one-way delay: 79.334 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 337.27 Mbit/s

95th percentile per-packet one-way delay: 58.783 ms

Loss rate: 0.45%

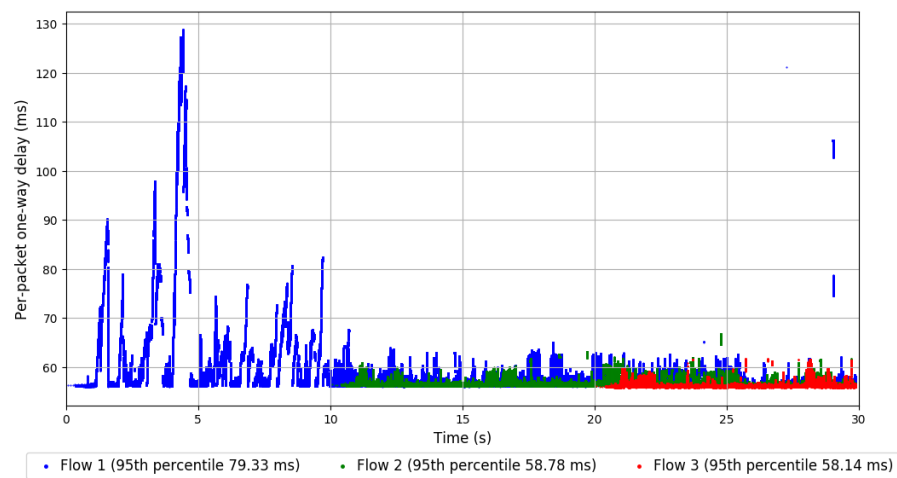
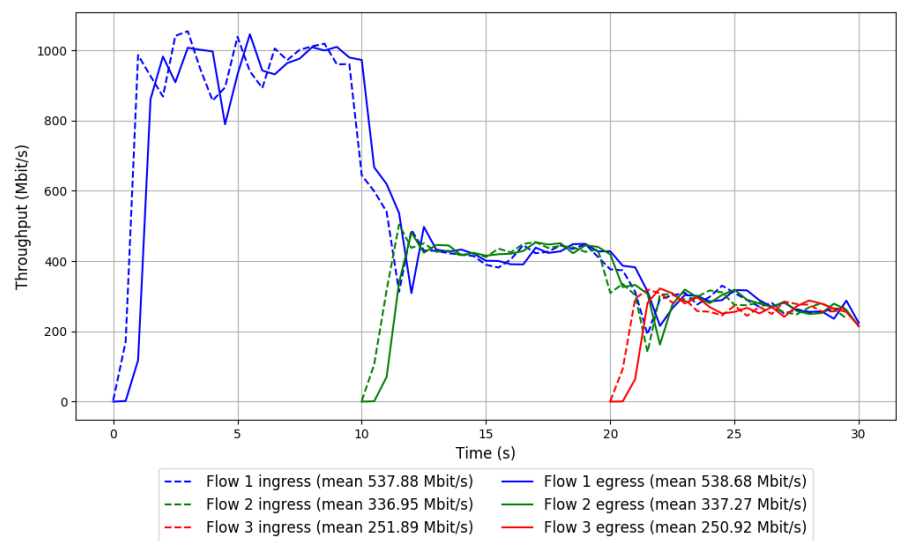
-- Flow 3:

Average throughput: 250.92 Mbit/s

95th percentile per-packet one-way delay: 58.136 ms

Loss rate: 1.54%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-12-01 05:30:34

End at: 2018-12-01 05:31:04

Local clock offset: -0.024 ms

Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2018-12-01 08:39:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 881.83 Mbit/s

95th percentile per-packet one-way delay: 67.900 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 546.64 Mbit/s

95th percentile per-packet one-way delay: 71.045 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 368.53 Mbit/s

95th percentile per-packet one-way delay: 66.887 ms

Loss rate: 0.47%

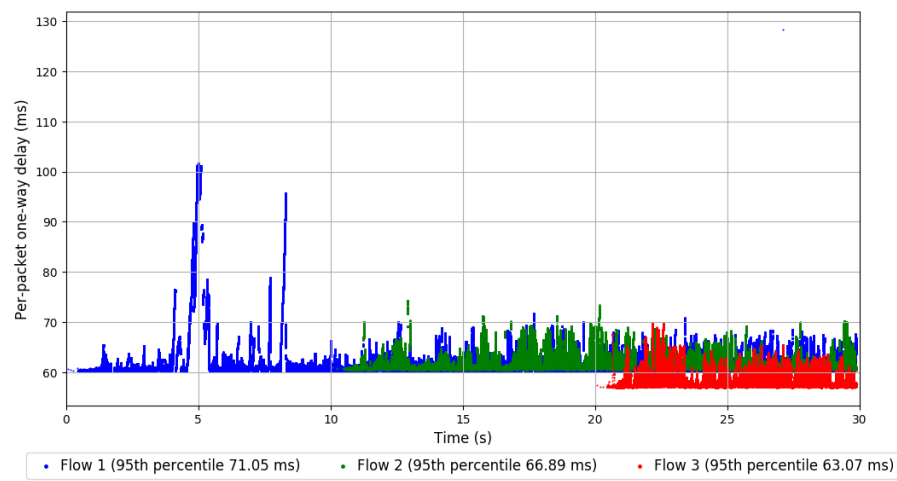
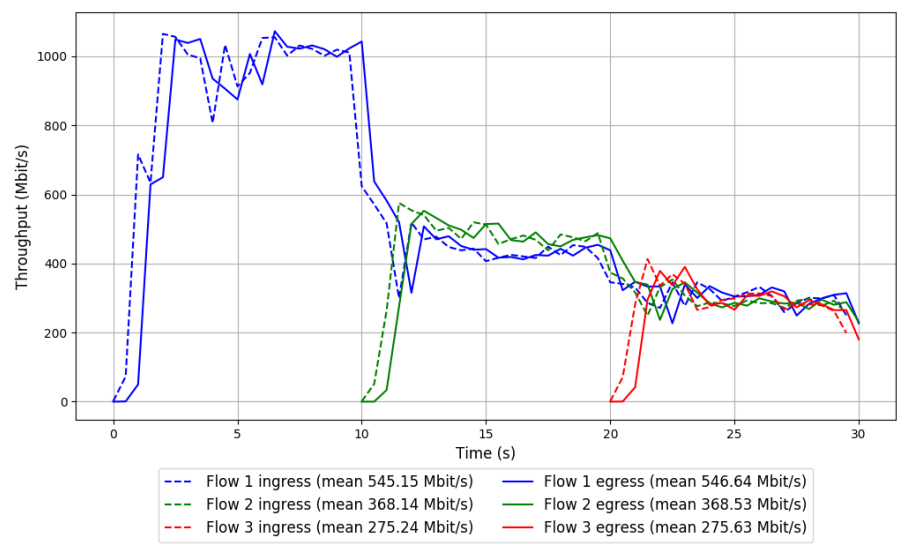
-- Flow 3:

Average throughput: 275.63 Mbit/s

95th percentile per-packet one-way delay: 63.071 ms

Loss rate: 0.99%

Run 3: Report of FillP-Sheep — Data Link

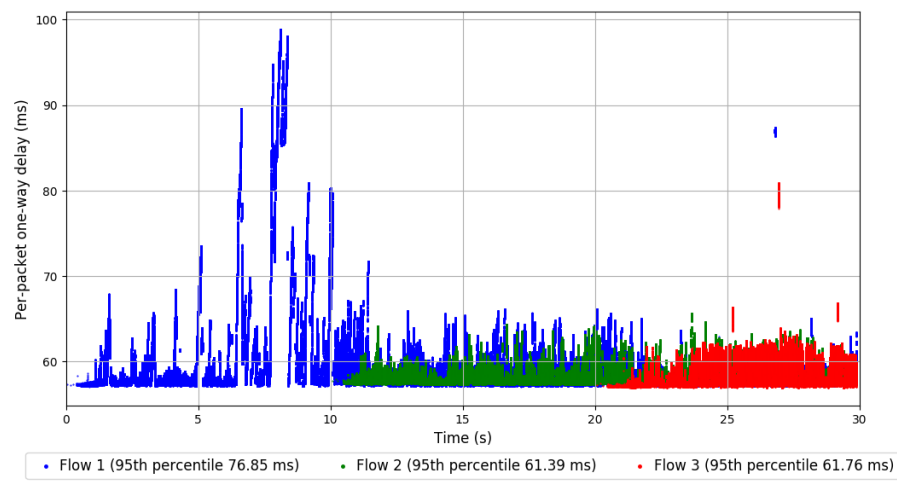
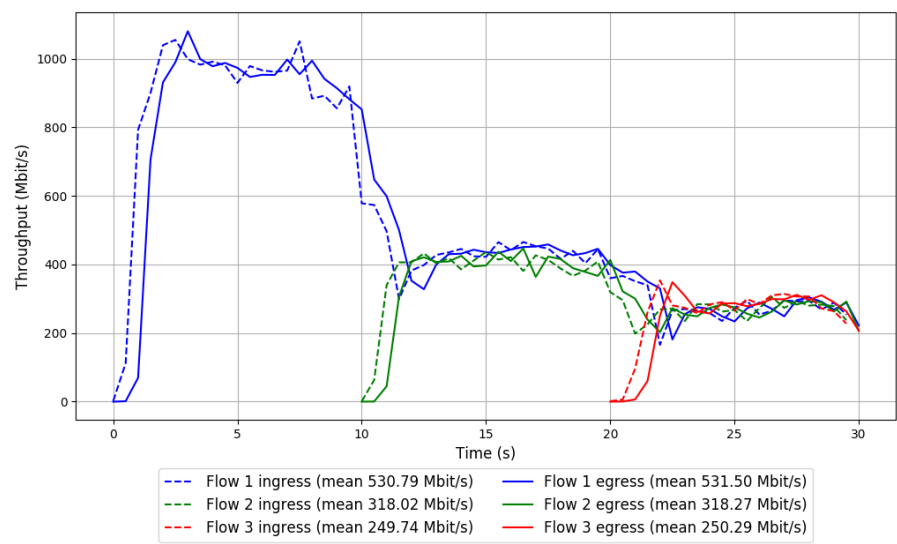


Run 4: Statistics of FillP-Sheep

Start at: 2018-12-01 06:06:39  
End at: 2018-12-01 06:07:09  
Local clock offset: -0.103 ms  
Remote clock offset: -0.317 ms

# Below is generated by plot.py at 2018-12-01 08:39:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 824.90 Mbit/s  
95th percentile per-packet one-way delay: 69.424 ms  
Loss rate: 0.35%  
-- Flow 1:  
Average throughput: 531.50 Mbit/s  
95th percentile per-packet one-way delay: 76.851 ms  
Loss rate: 0.21%  
-- Flow 2:  
Average throughput: 318.27 Mbit/s  
95th percentile per-packet one-way delay: 61.390 ms  
Loss rate: 0.49%  
-- Flow 3:  
Average throughput: 250.29 Mbit/s  
95th percentile per-packet one-way delay: 61.757 ms  
Loss rate: 0.93%

Run 4: Report of FillP-Sheep — Data Link



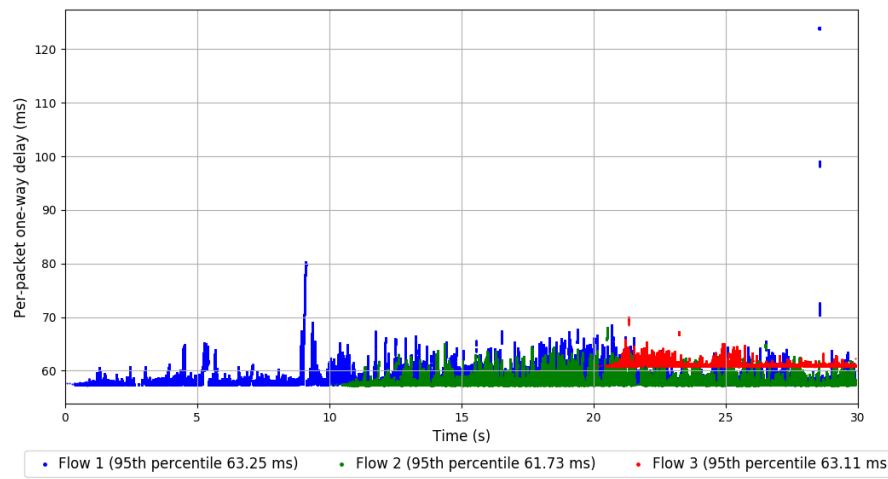
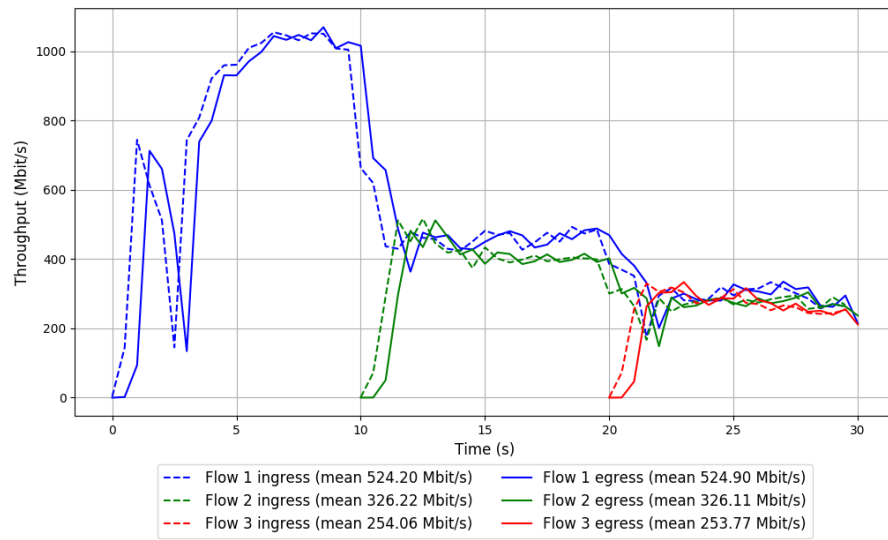


Run 5: Statistics of FillP-Sheep

Start at: 2018-12-01 06:43:17  
End at: 2018-12-01 06:43:47  
Local clock offset: 0.04 ms  
Remote clock offset: -0.224 ms

# Below is generated by plot.py at 2018-12-01 08:55:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 824.81 Mbit/s  
95th percentile per-packet one-way delay: 62.804 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 524.90 Mbit/s  
95th percentile per-packet one-way delay: 63.249 ms  
Loss rate: 0.23%  
-- Flow 2:  
Average throughput: 326.11 Mbit/s  
95th percentile per-packet one-way delay: 61.727 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 253.77 Mbit/s  
95th percentile per-packet one-way delay: 63.114 ms  
Loss rate: 1.20%

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

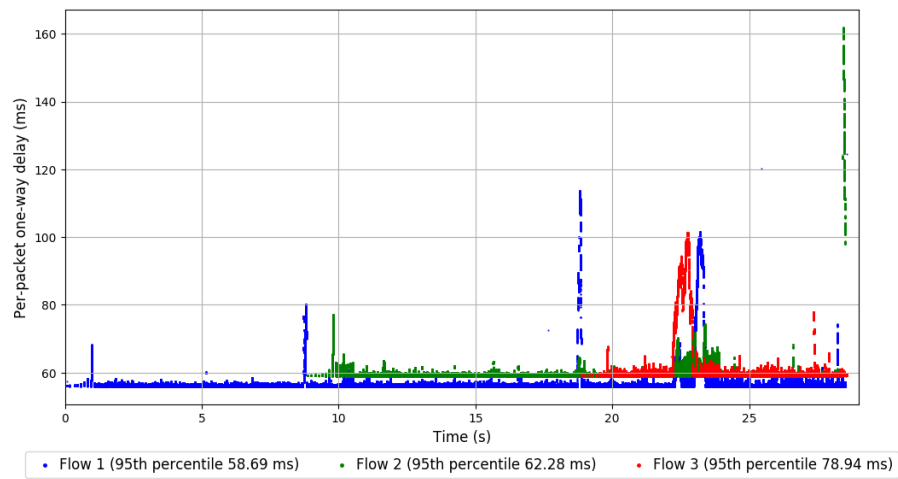
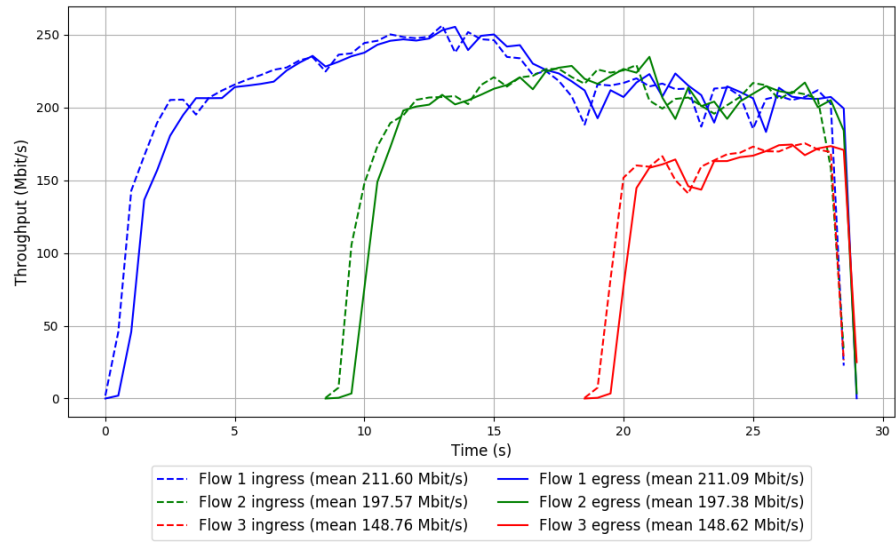


```
Run 1: Statistics of Indigo

Start at: 2018-12-01 04:22:49
End at: 2018-12-01 04:23:19
Local clock offset: -0.059 ms
Remote clock offset: 1.296 ms

# Below is generated by plot.py at 2018-12-01 08:55:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 398.01 Mbit/s
95th percentile per-packet one-way delay: 61.799 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 211.09 Mbit/s
95th percentile per-packet one-way delay: 58.693 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 197.38 Mbit/s
95th percentile per-packet one-way delay: 62.282 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 148.62 Mbit/s
95th percentile per-packet one-way delay: 78.943 ms
Loss rate: 0.76%
```

## Run 1: Report of Indigo — Data Link

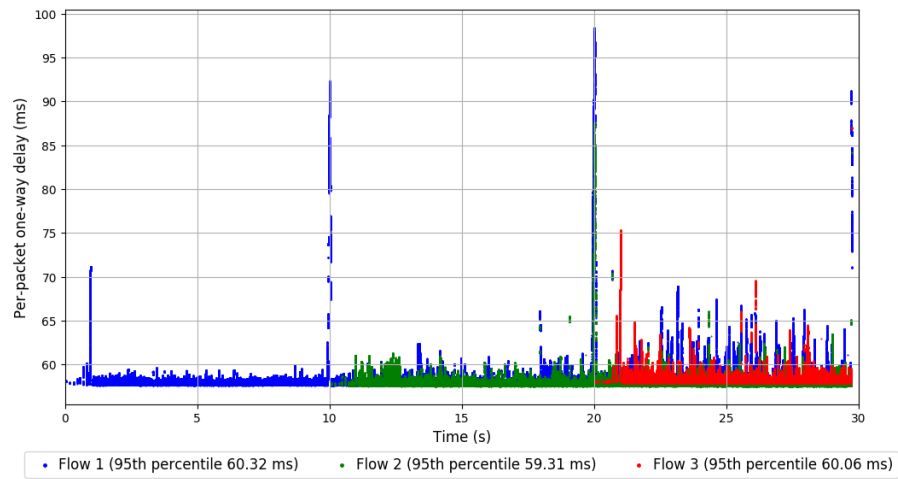
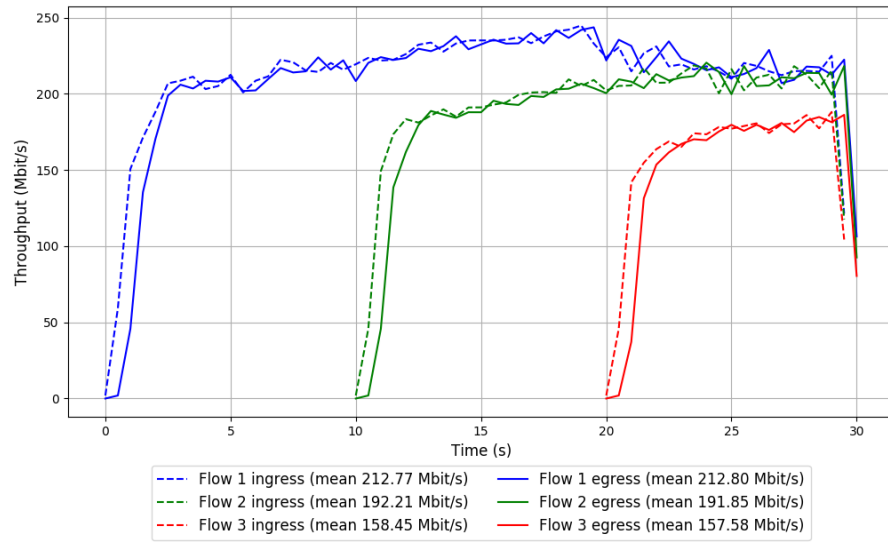


Run 2: Statistics of Indigo

Start at: 2018-12-01 04:58:17  
End at: 2018-12-01 04:58:47  
Local clock offset: -0.062 ms  
Remote clock offset: -0.839 ms

# Below is generated by plot.py at 2018-12-01 08:55:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 391.23 Mbit/s  
95th percentile per-packet one-way delay: 59.878 ms  
Loss rate: 0.59%  
-- Flow 1:  
Average throughput: 212.80 Mbit/s  
95th percentile per-packet one-way delay: 60.317 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 191.85 Mbit/s  
95th percentile per-packet one-way delay: 59.314 ms  
Loss rate: 0.68%  
-- Flow 3:  
Average throughput: 157.58 Mbit/s  
95th percentile per-packet one-way delay: 60.061 ms  
Loss rate: 1.45%

## Run 2: Report of Indigo — Data Link

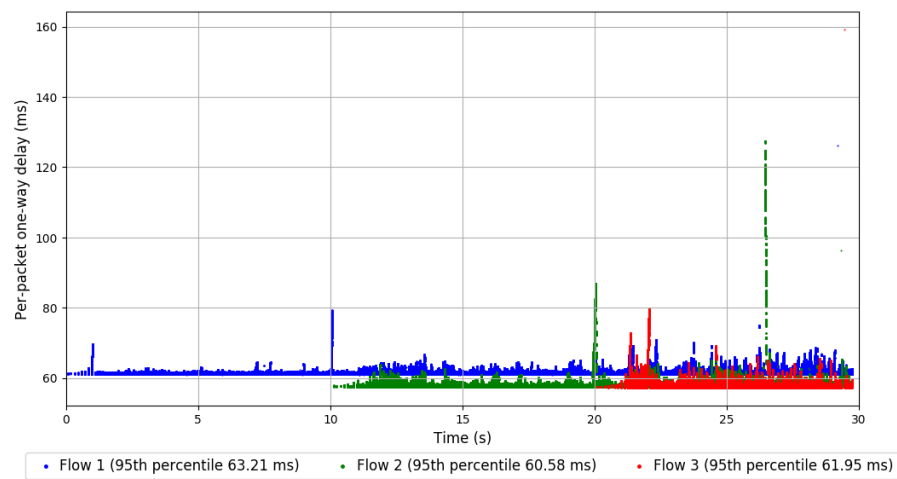
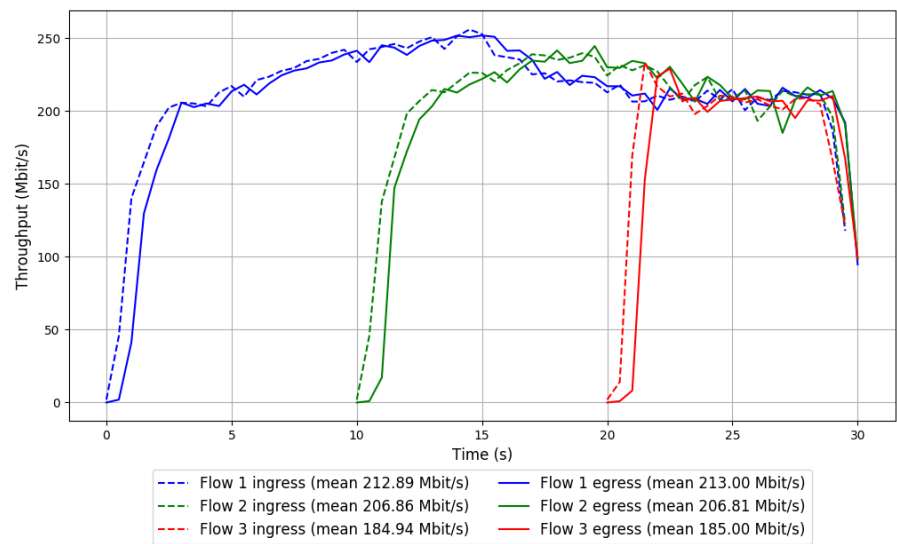


Run 3: Statistics of Indigo

Start at: 2018-12-01 05:34:31  
End at: 2018-12-01 05:35:01  
Local clock offset: 0.304 ms  
Remote clock offset: -0.184 ms

# Below is generated by plot.py at 2018-12-01 08:55:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 409.67 Mbit/s  
95th percentile per-packet one-way delay: 62.762 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 213.00 Mbit/s  
95th percentile per-packet one-way delay: 63.206 ms  
Loss rate: 0.36%  
-- Flow 2:  
Average throughput: 206.81 Mbit/s  
95th percentile per-packet one-way delay: 60.575 ms  
Loss rate: 0.62%  
-- Flow 3:  
Average throughput: 185.00 Mbit/s  
95th percentile per-packet one-way delay: 61.954 ms  
Loss rate: 1.21%

Run 3: Report of Indigo — Data Link





Run 4: Statistics of Indigo

Start at: 2018-12-01 06:10:20

End at: 2018-12-01 06:10:51

Local clock offset: -0.086 ms

Remote clock offset: -0.19 ms

# Below is generated by plot.py at 2018-12-01 08:55:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 402.93 Mbit/s

95th percentile per-packet one-way delay: 61.603 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 219.02 Mbit/s

95th percentile per-packet one-way delay: 59.502 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 189.05 Mbit/s

95th percentile per-packet one-way delay: 62.524 ms

Loss rate: 0.58%

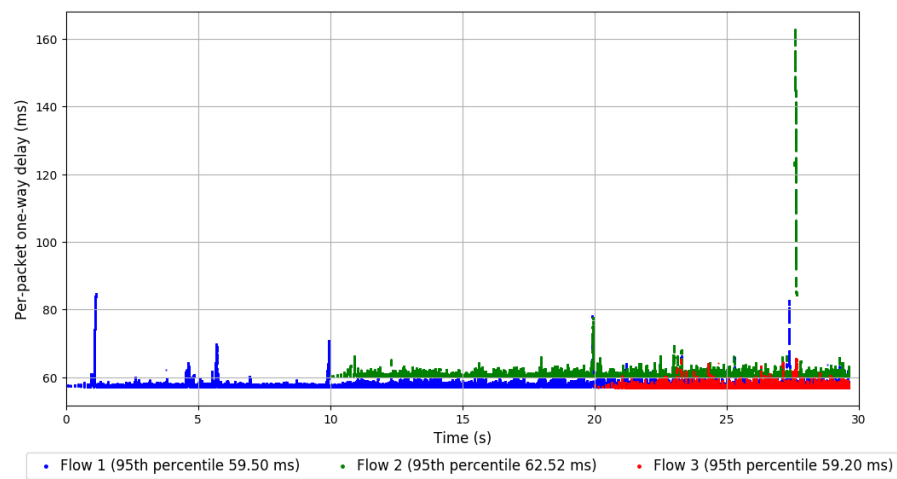
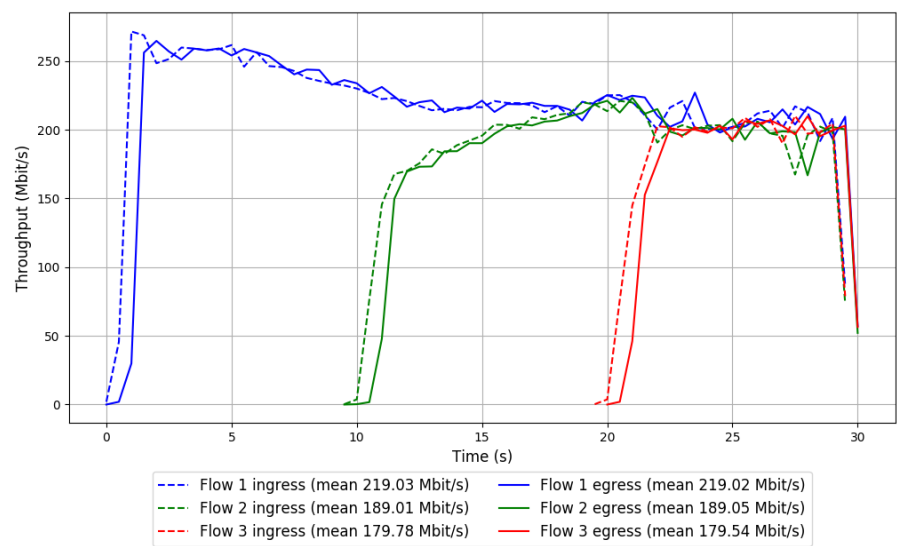
-- Flow 3:

Average throughput: 179.54 Mbit/s

95th percentile per-packet one-way delay: 59.201 ms

Loss rate: 1.32%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-12-01 06:47:09

End at: 2018-12-01 06:47:39

Local clock offset: 0.25 ms

Remote clock offset: 0.598 ms

# Below is generated by plot.py at 2018-12-01 08:55:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 406.72 Mbit/s

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

Loss rate: 0.59%

-- Flow 1:

Average throughput: 214.27 Mbit/s

95th percentile per-packet one-way delay: 59.020 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 211.18 Mbit/s

95th percentile per-packet one-way delay: 62.587 ms

Loss rate: 0.61%

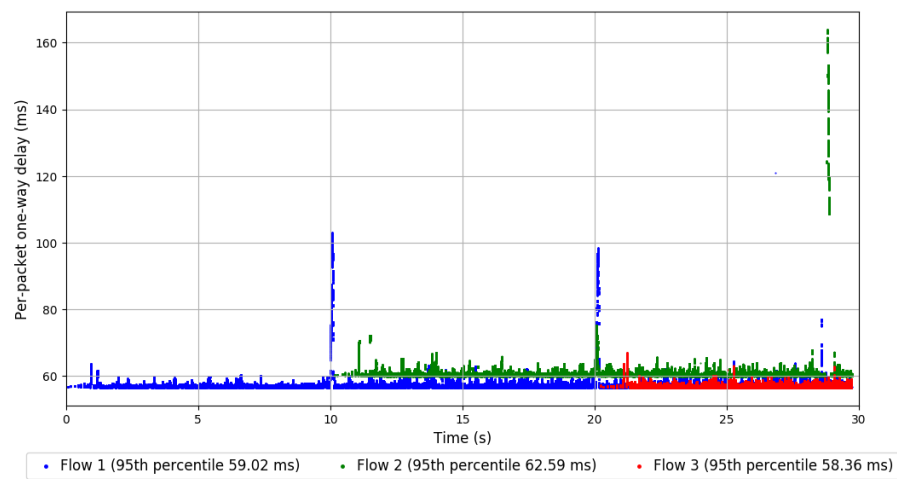
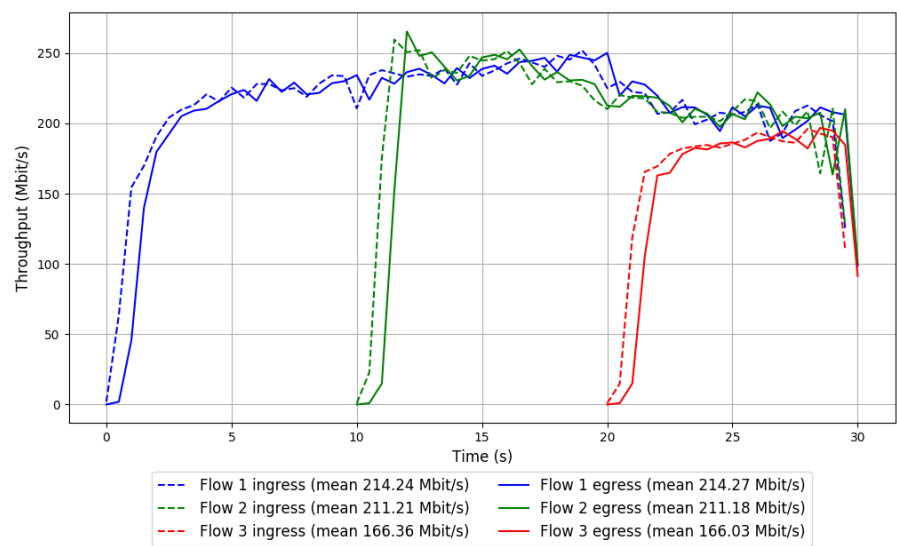
-- Flow 3:

Average throughput: 166.03 Mbit/s

95th percentile per-packet one-way delay: 58.359 ms

Loss rate: 1.41%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-96d2da3

Start at: 2018-12-01 04:34:00

End at: 2018-12-01 04:34:30

Local clock offset: -0.043 ms

Remote clock offset: 0.152 ms

# Below is generated by plot.py at 2018-12-01 08:55:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 532.29 Mbit/s

95th percentile per-packet one-way delay: 81.189 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 293.79 Mbit/s

95th percentile per-packet one-way delay: 84.206 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 254.84 Mbit/s

95th percentile per-packet one-way delay: 74.837 ms

Loss rate: 0.43%

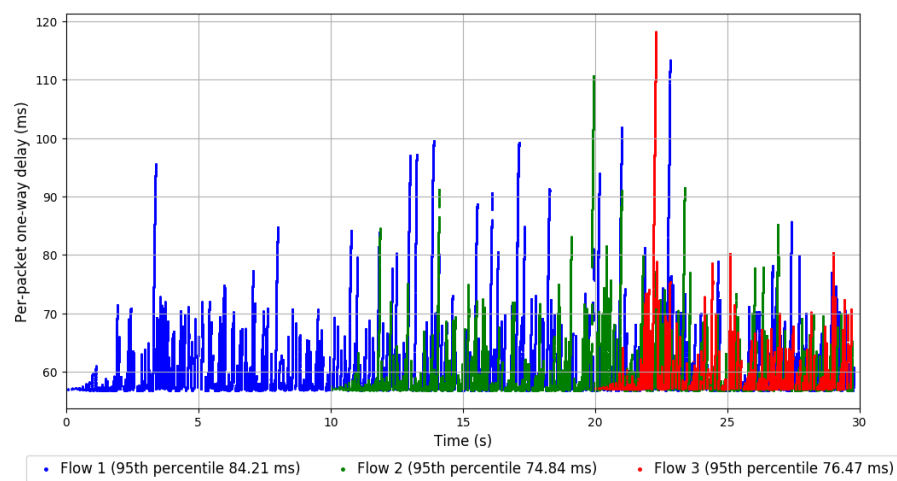
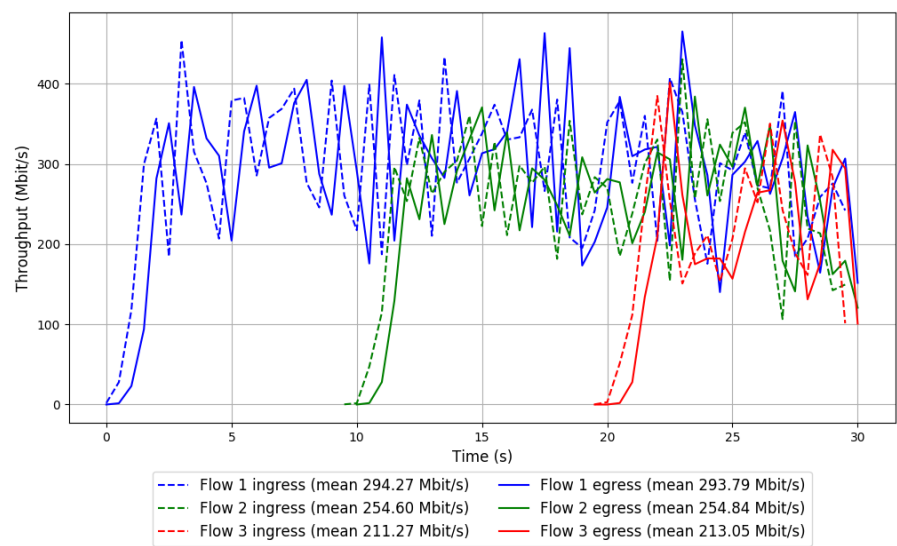
-- Flow 3:

Average throughput: 213.05 Mbit/s

95th percentile per-packet one-way delay: 76.468 ms

Loss rate: 1.23%

Run 1: Report of Indigo-96d2da3 — Data Link

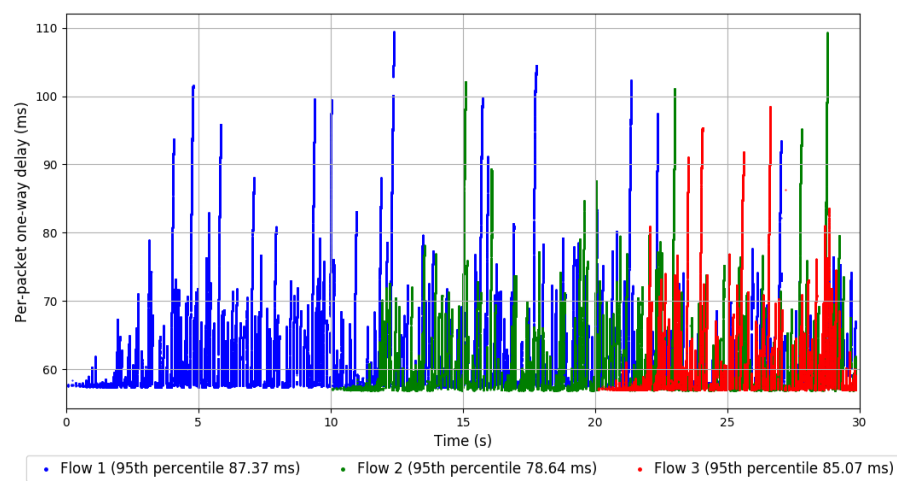
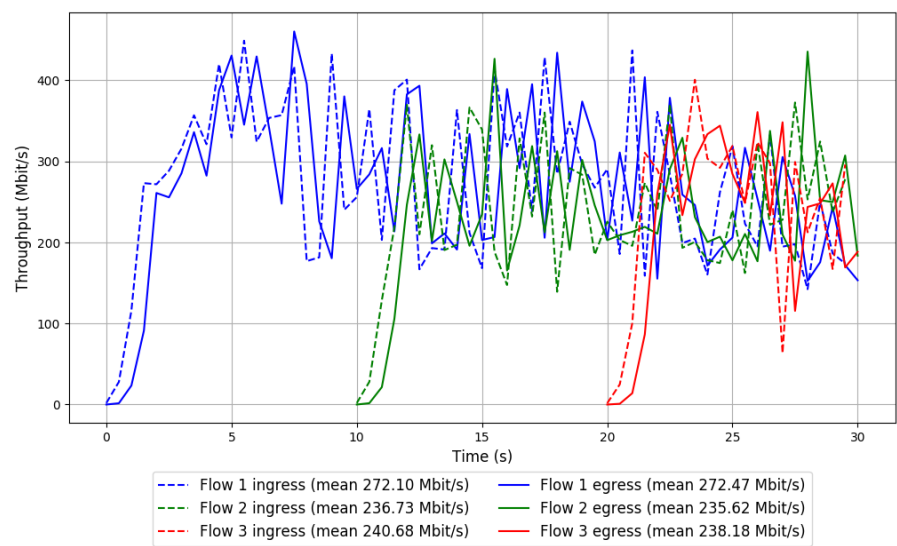


Run 2: Statistics of Indigo-96d2da3

Start at: 2018-12-01 05:09:52  
End at: 2018-12-01 05:10:22  
Local clock offset: -0.023 ms  
Remote clock offset: -0.288 ms

# Below is generated by plot.py at 2018-12-01 08:55:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 506.57 Mbit/s  
95th percentile per-packet one-way delay: 85.085 ms  
Loss rate: 0.86%  
-- Flow 1:  
Average throughput: 272.47 Mbit/s  
95th percentile per-packet one-way delay: 87.372 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 235.62 Mbit/s  
95th percentile per-packet one-way delay: 78.640 ms  
Loss rate: 1.06%  
-- Flow 3:  
Average throughput: 238.18 Mbit/s  
95th percentile per-packet one-way delay: 85.071 ms  
Loss rate: 2.27%

Run 2: Report of Indigo-96d2da3 — Data Link





Run 3: Statistics of Indigo-96d2da3

Start at: 2018-12-01 05:45:56

End at: 2018-12-01 05:46:26

Local clock offset: -0.095 ms

Remote clock offset: 0.07 ms

# Below is generated by plot.py at 2018-12-01 09:01:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 521.52 Mbit/s

95th percentile per-packet one-way delay: 89.000 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 289.64 Mbit/s

95th percentile per-packet one-way delay: 90.736 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 255.21 Mbit/s

95th percentile per-packet one-way delay: 87.180 ms

Loss rate: 0.69%

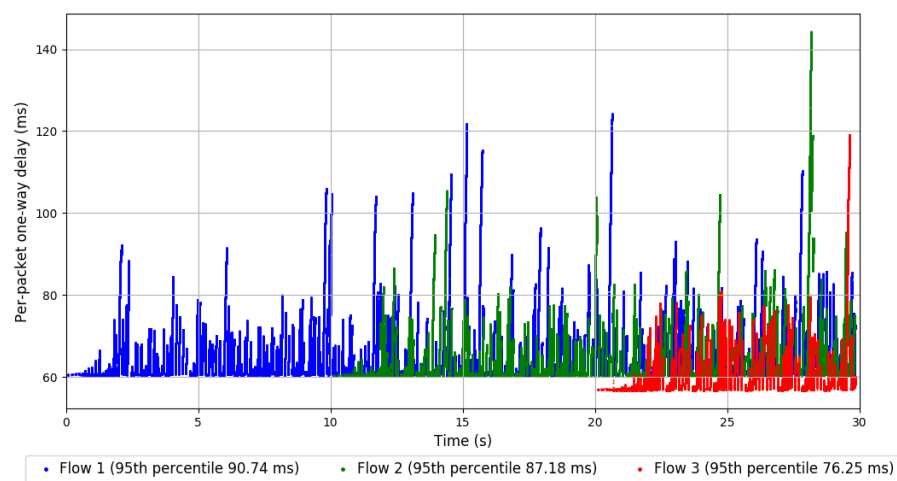
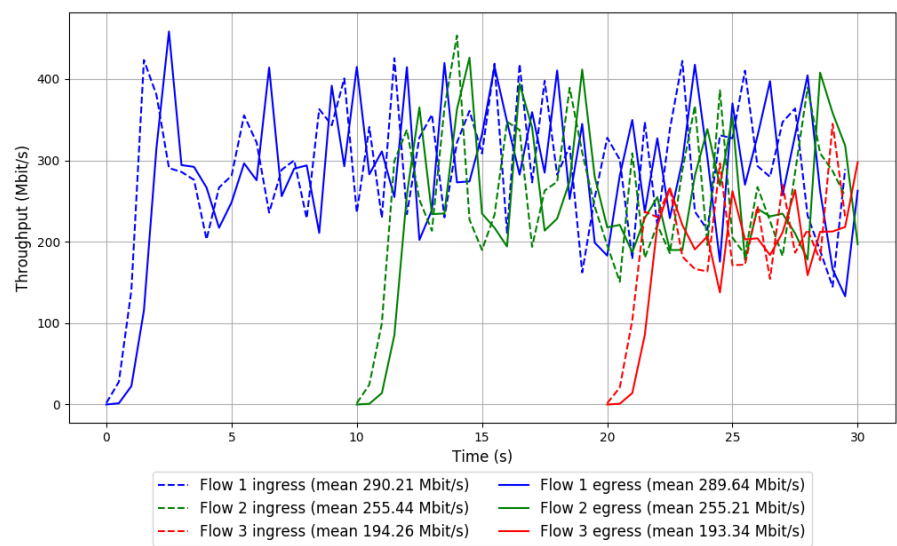
-- Flow 3:

Average throughput: 193.34 Mbit/s

95th percentile per-packet one-way delay: 76.247 ms

Loss rate: 1.66%

Run 3: Report of Indigo-96d2da3 — Data Link

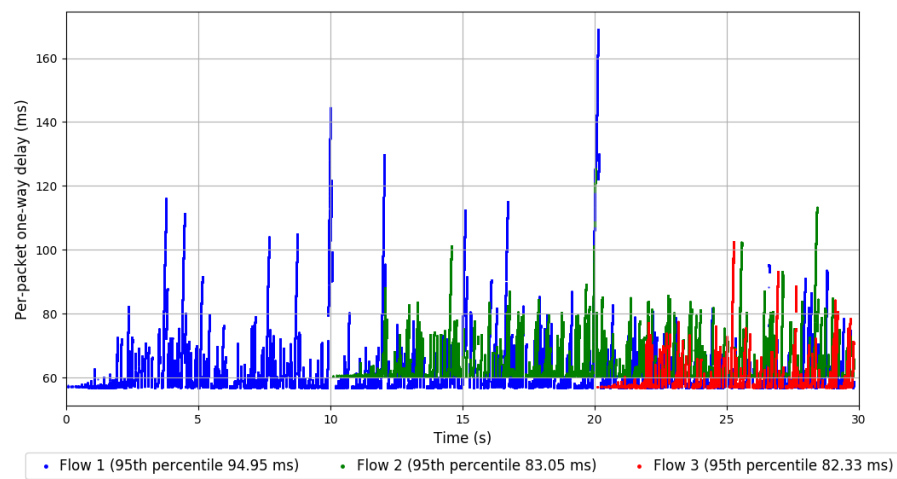
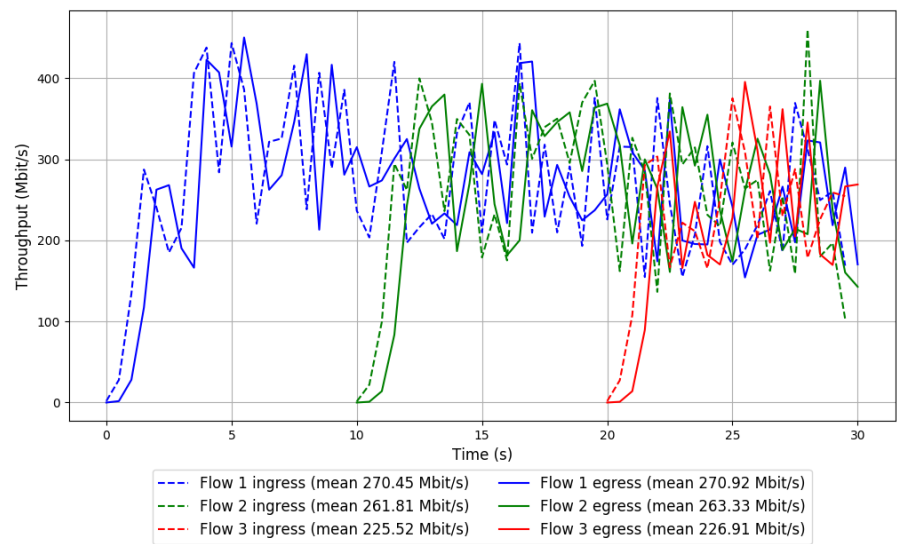


Run 4: Statistics of Indigo-96d2da3

Start at: 2018-12-01 06:22:05  
End at: 2018-12-01 06:22:35  
Local clock offset: -0.073 ms  
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2018-12-01 09:01:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 519.39 Mbit/s  
95th percentile per-packet one-way delay: 88.931 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 270.92 Mbit/s  
95th percentile per-packet one-way delay: 94.953 ms  
Loss rate: 0.23%  
-- Flow 2:  
Average throughput: 263.33 Mbit/s  
95th percentile per-packet one-way delay: 83.046 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 226.91 Mbit/s  
95th percentile per-packet one-way delay: 82.326 ms  
Loss rate: 0.78%

Run 4: Report of Indigo-96d2da3 — Data Link

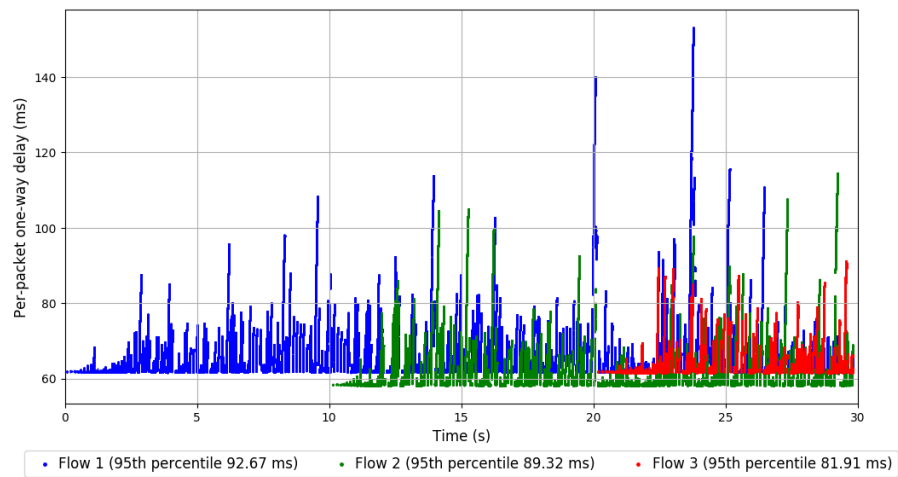
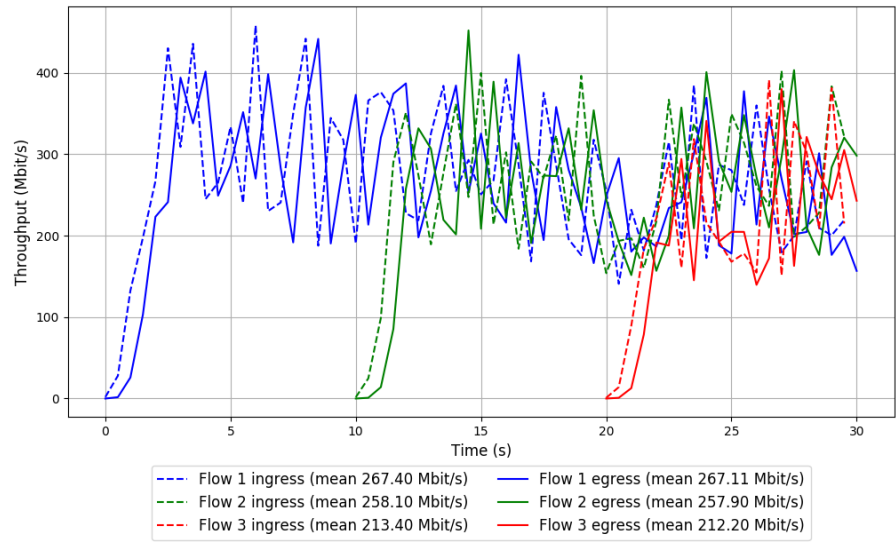


Run 5: Statistics of Indigo-96d2da3

Start at: 2018-12-01 06:58:59  
End at: 2018-12-01 06:59:29  
Local clock offset: -0.023 ms  
Remote clock offset: -1.349 ms

# Below is generated by plot.py at 2018-12-01 09:01:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 506.52 Mbit/s  
95th percentile per-packet one-way delay: 89.024 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 267.11 Mbit/s  
95th percentile per-packet one-way delay: 92.674 ms  
Loss rate: 0.61%  
-- Flow 2:  
Average throughput: 257.90 Mbit/s  
95th percentile per-packet one-way delay: 89.319 ms  
Loss rate: 0.85%  
-- Flow 3:  
Average throughput: 212.20 Mbit/s  
95th percentile per-packet one-way delay: 81.907 ms  
Loss rate: 1.91%

# Run 5: Report of Indigo-96d2da3 — Data Link

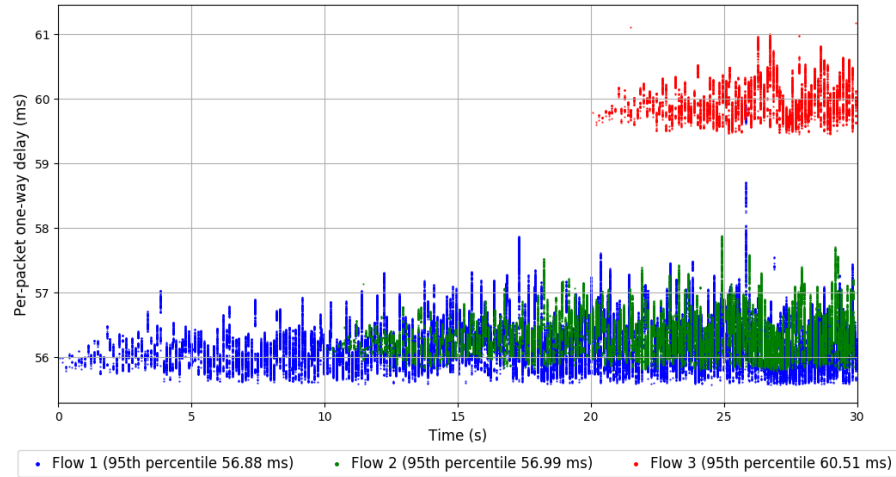
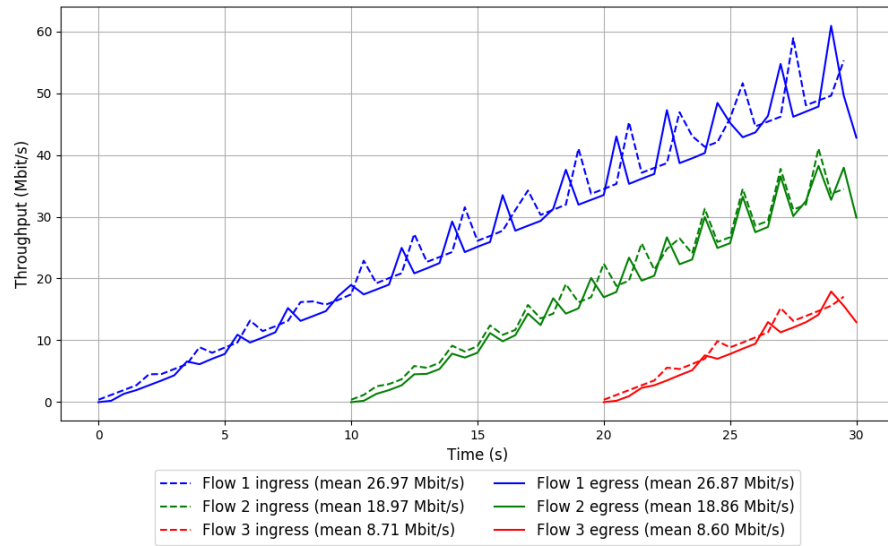


```
Run 1: Statistics of LEDBAT

Start at: 2018-12-01 04:30:28
End at: 2018-12-01 04:30:58
Local clock offset: -0.43 ms
Remote clock offset: 0.751 ms

# Below is generated by plot.py at 2018-12-01 09:01:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.20 Mbit/s
95th percentile per-packet one-way delay: 59.775 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 26.87 Mbit/s
95th percentile per-packet one-way delay: 56.877 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 18.86 Mbit/s
95th percentile per-packet one-way delay: 56.989 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 8.60 Mbit/s
95th percentile per-packet one-way delay: 60.506 ms
Loss rate: 2.38%
```

## Run 1: Report of LEDBAT — Data Link





Run 2: Statistics of LEDBAT

Start at: 2018-12-01 05:06:19

End at: 2018-12-01 05:06:49

Local clock offset: 0.422 ms

Remote clock offset: 0.213 ms

# Below is generated by plot.py at 2018-12-01 09:01:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 41.46 Mbit/s

95th percentile per-packet one-way delay: 58.438 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 26.86 Mbit/s

95th percentile per-packet one-way delay: 58.507 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 17.74 Mbit/s

95th percentile per-packet one-way delay: 58.343 ms

Loss rate: 1.19%

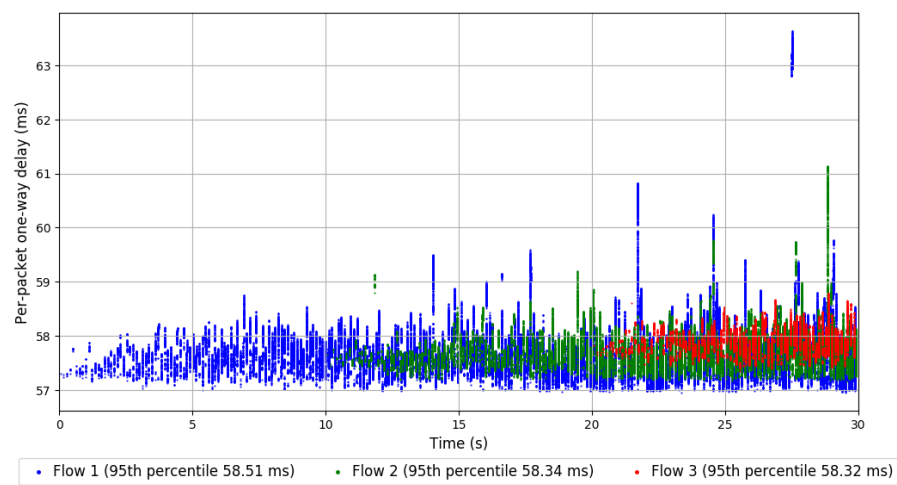
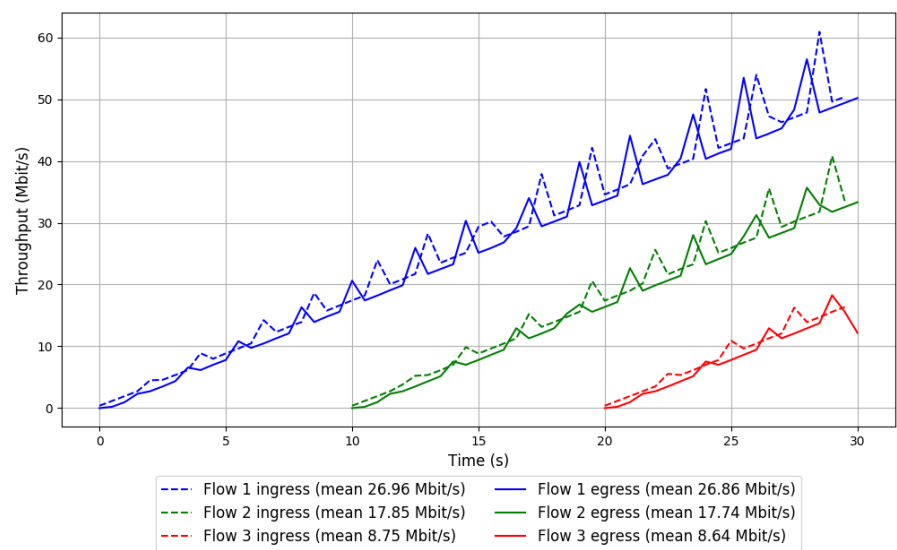
-- Flow 3:

Average throughput: 8.64 Mbit/s

95th percentile per-packet one-way delay: 58.318 ms

Loss rate: 2.41%

Run 2: Report of LEDBAT — Data Link

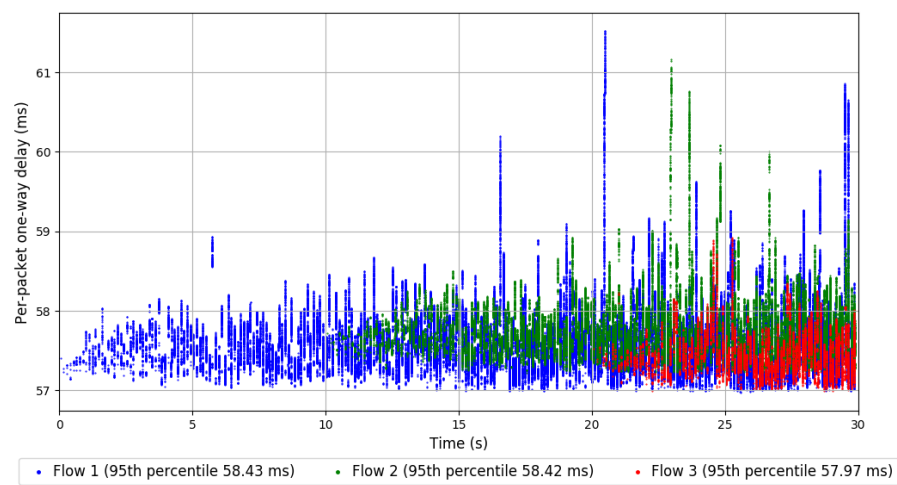
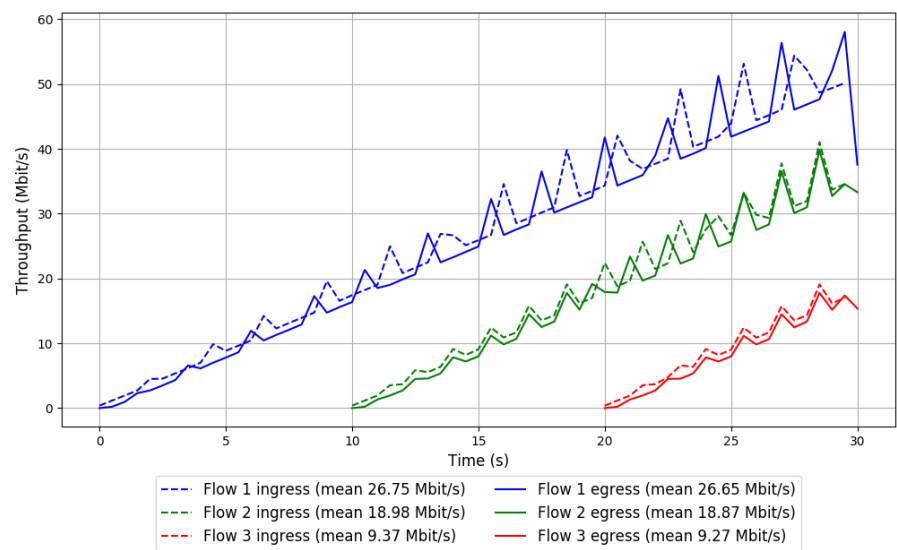


Run 3: Statistics of LEDBAT

Start at: 2018-12-01 05:42:22  
End at: 2018-12-01 05:42:52  
Local clock offset: -0.062 ms  
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2018-12-01 09:01:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 42.22 Mbit/s  
95th percentile per-packet one-way delay: 58.404 ms  
Loss rate: 1.01%  
-- Flow 1:  
Average throughput: 26.65 Mbit/s  
95th percentile per-packet one-way delay: 58.433 ms  
Loss rate: 0.79%  
-- Flow 2:  
Average throughput: 18.87 Mbit/s  
95th percentile per-packet one-way delay: 58.419 ms  
Loss rate: 1.15%  
-- Flow 3:  
Average throughput: 9.27 Mbit/s  
95th percentile per-packet one-way delay: 57.965 ms  
Loss rate: 2.34%

Run 3: Report of LEDBAT — Data Link

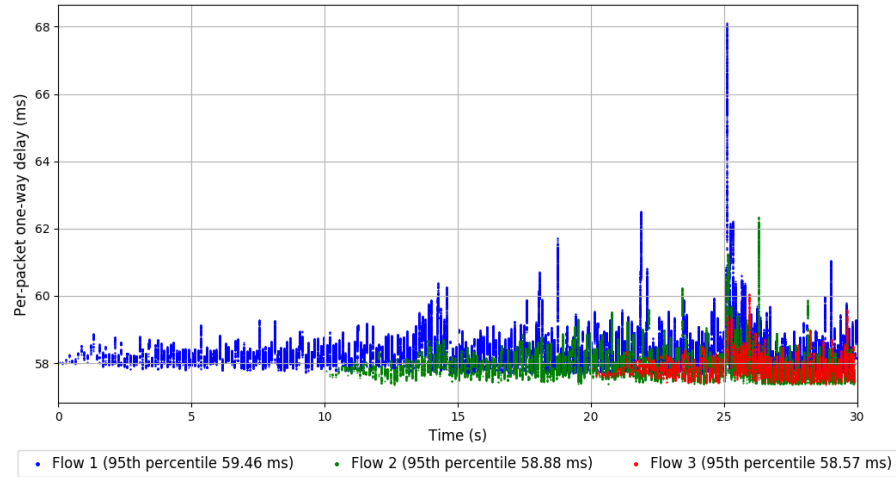
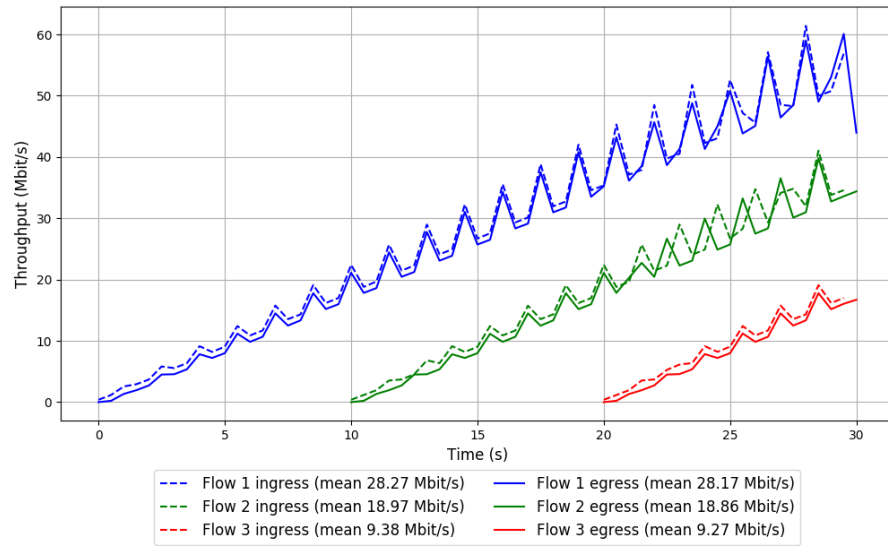


Run 4: Statistics of LEDBAT

Start at: 2018-12-01 06:18:30  
End at: 2018-12-01 06:19:00  
Local clock offset: 0.289 ms  
Remote clock offset: -0.238 ms

# Below is generated by plot.py at 2018-12-01 09:01:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 43.70 Mbit/s  
95th percentile per-packet one-way delay: 59.322 ms  
Loss rate: 0.99%  
-- Flow 1:  
Average throughput: 28.17 Mbit/s  
95th percentile per-packet one-way delay: 59.464 ms  
Loss rate: 0.76%  
-- Flow 2:  
Average throughput: 18.86 Mbit/s  
95th percentile per-packet one-way delay: 58.875 ms  
Loss rate: 1.15%  
-- Flow 3:  
Average throughput: 9.27 Mbit/s  
95th percentile per-packet one-way delay: 58.566 ms  
Loss rate: 2.33%

# Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-12-01 06:55:24

End at: 2018-12-01 06:55:54

Local clock offset: 0.211 ms

Remote clock offset: 0.471 ms

# Below is generated by plot.py at 2018-12-01 09:01:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 43.92 Mbit/s

95th percentile per-packet one-way delay: 58.076 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 28.41 Mbit/s

95th percentile per-packet one-way delay: 58.177 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 18.89 Mbit/s

95th percentile per-packet one-way delay: 57.804 ms

Loss rate: 1.15%

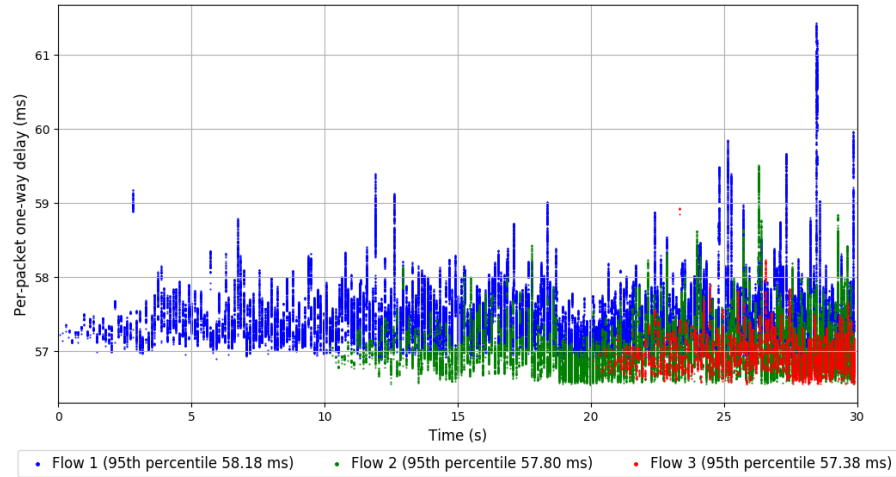
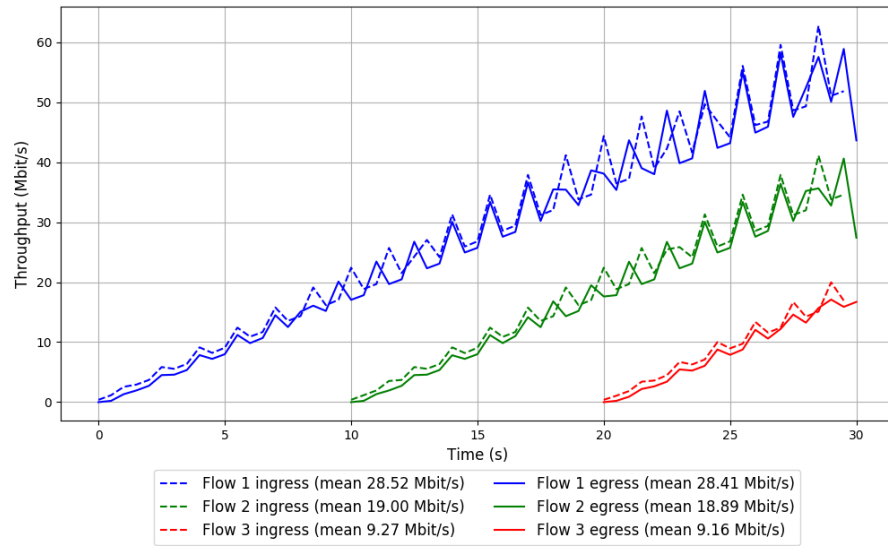
-- Flow 3:

Average throughput: 9.16 Mbit/s

95th percentile per-packet one-way delay: 57.382 ms

Loss rate: 2.34%

## Run 5: Report of LEDBAT — Data Link



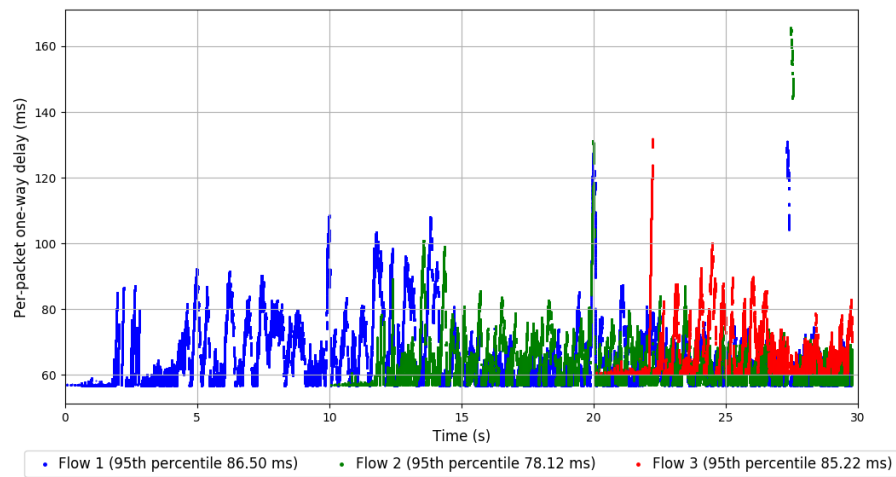
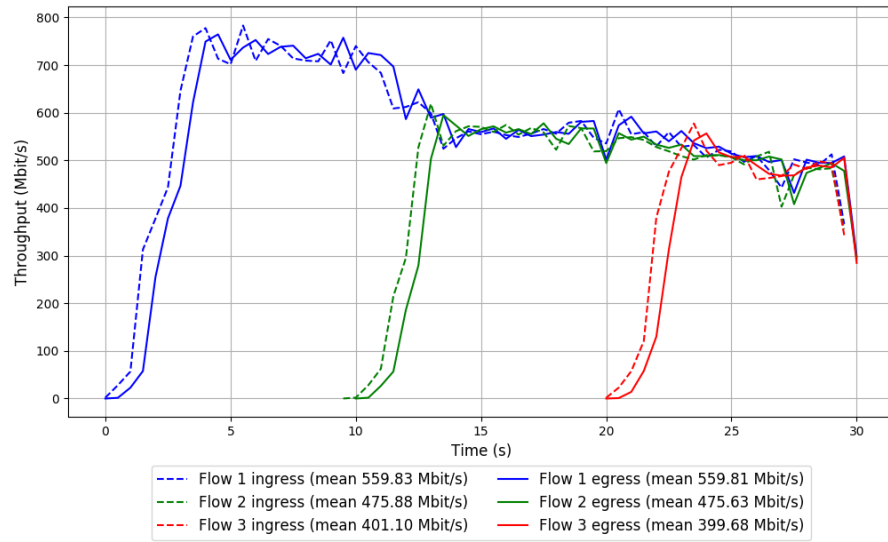


```
Run 1: Statistics of Indigo-Muses

Start at: 2018-12-01 04:31:47
End at: 2018-12-01 04:32:17
Local clock offset: 0.136 ms
Remote clock offset: 0.237 ms

# Below is generated by plot.py at 2018-12-01 09:16:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1006.19 Mbit/s
95th percentile per-packet one-way delay: 84.581 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 559.81 Mbit/s
95th percentile per-packet one-way delay: 86.498 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 475.63 Mbit/s
95th percentile per-packet one-way delay: 78.120 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 399.68 Mbit/s
95th percentile per-packet one-way delay: 85.219 ms
Loss rate: 1.52%
```

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



Run 2: Statistics of Indigo-Muses

Start at: 2018-12-01 05:07:37

End at: 2018-12-01 05:08:07

Local clock offset: -0.1 ms

Remote clock offset: -1.65 ms

# Below is generated by plot.py at 2018-12-01 09:16:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1018.99 Mbit/s

95th percentile per-packet one-way delay: 88.313 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 559.36 Mbit/s

95th percentile per-packet one-way delay: 89.813 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 498.17 Mbit/s

95th percentile per-packet one-way delay: 91.390 ms

Loss rate: 0.67%

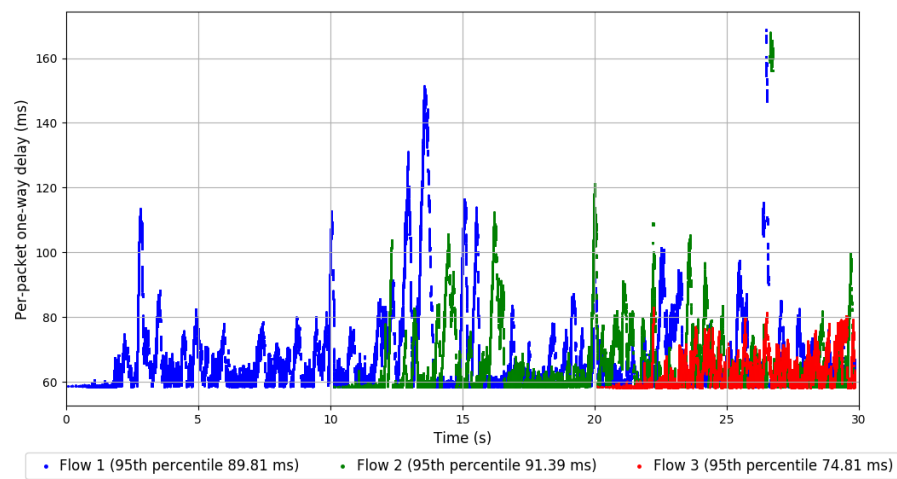
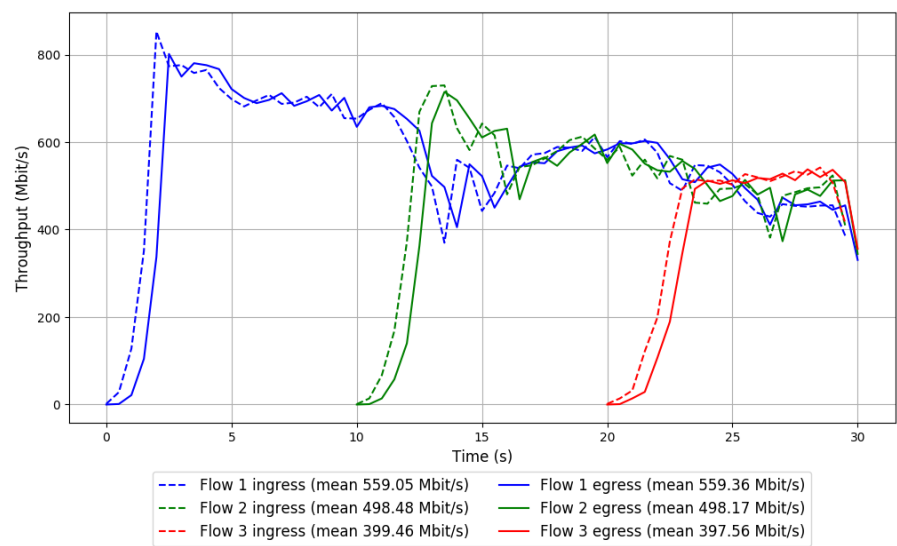
-- Flow 3:

Average throughput: 397.56 Mbit/s

95th percentile per-packet one-way delay: 74.808 ms

Loss rate: 1.65%

Run 2: Report of Indigo-Muses — Data Link



Run 3: Statistics of Indigo-Muses

Start at: 2018-12-01 05:43:39

End at: 2018-12-01 05:44:09

Local clock offset: 0.245 ms

Remote clock offset: 1.169 ms

# Below is generated by plot.py at 2018-12-01 09:16:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1003.28 Mbit/s

95th percentile per-packet one-way delay: 87.661 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 554.20 Mbit/s

95th percentile per-packet one-way delay: 91.349 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 498.48 Mbit/s

95th percentile per-packet one-way delay: 84.557 ms

Loss rate: 0.61%

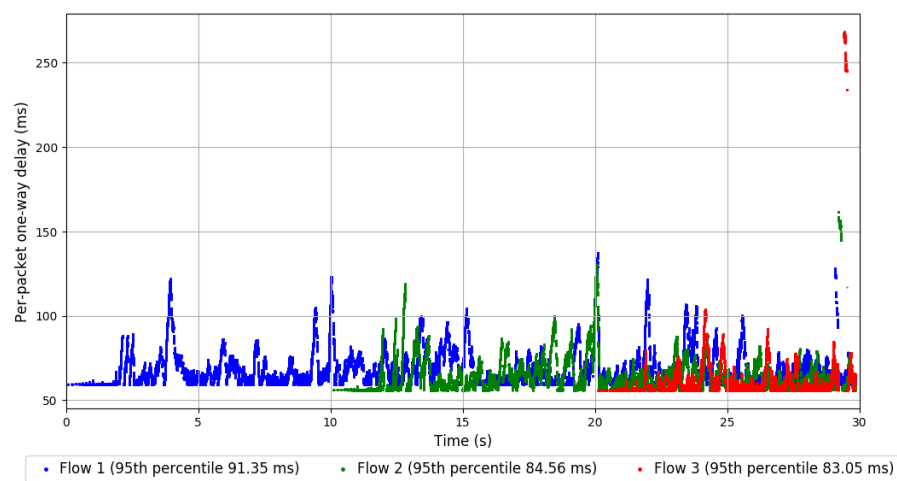
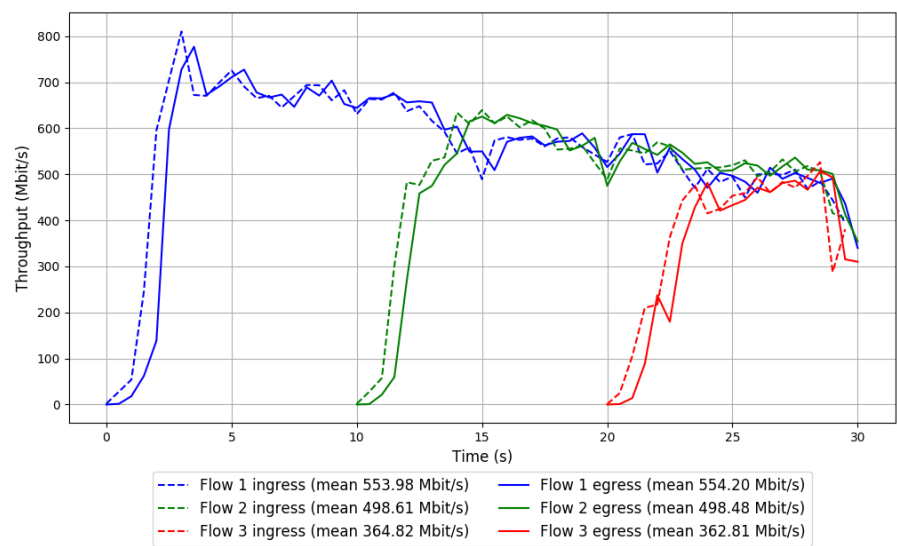
-- Flow 3:

Average throughput: 362.81 Mbit/s

95th percentile per-packet one-way delay: 83.054 ms

Loss rate: 1.71%

Run 3: Report of Indigo-Muses — Data Link

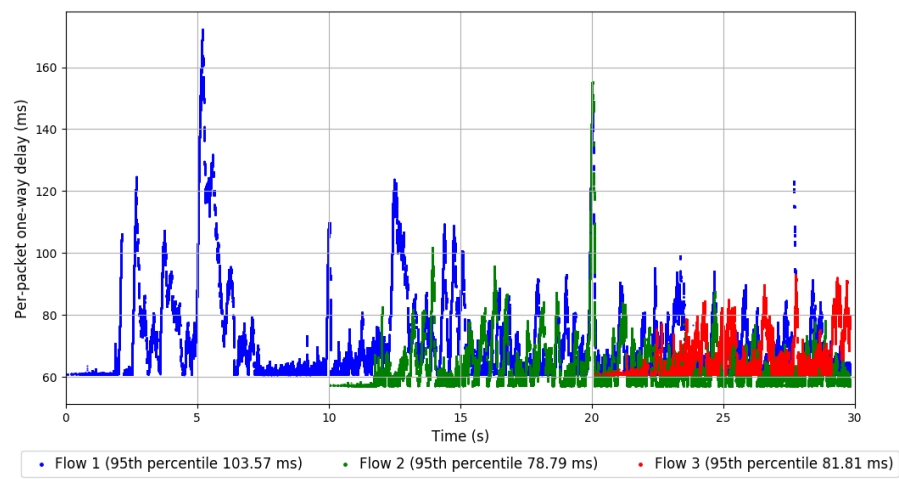
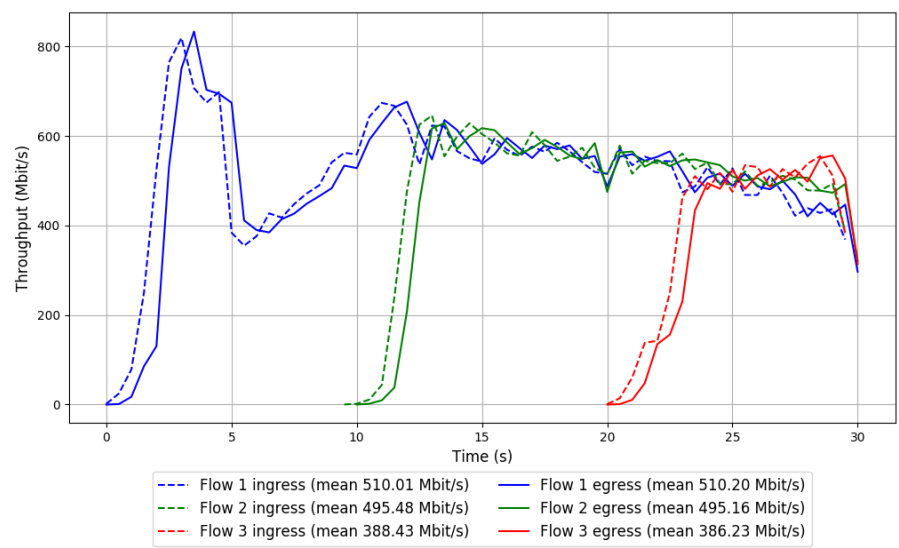


Run 4: Statistics of Indigo-Muses

Start at: 2018-12-01 06:19:48  
End at: 2018-12-01 06:20:18  
Local clock offset: -0.043 ms  
Remote clock offset: -0.335 ms

# Below is generated by plot.py at 2018-12-01 09:16:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 965.23 Mbit/s  
95th percentile per-packet one-way delay: 92.130 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 510.20 Mbit/s  
95th percentile per-packet one-way delay: 103.566 ms  
Loss rate: 0.40%  
-- Flow 2:  
Average throughput: 495.16 Mbit/s  
95th percentile per-packet one-way delay: 78.791 ms  
Loss rate: 0.66%  
-- Flow 3:  
Average throughput: 386.23 Mbit/s  
95th percentile per-packet one-way delay: 81.813 ms  
Loss rate: 1.83%

Run 4: Report of Indigo-Muses — Data Link



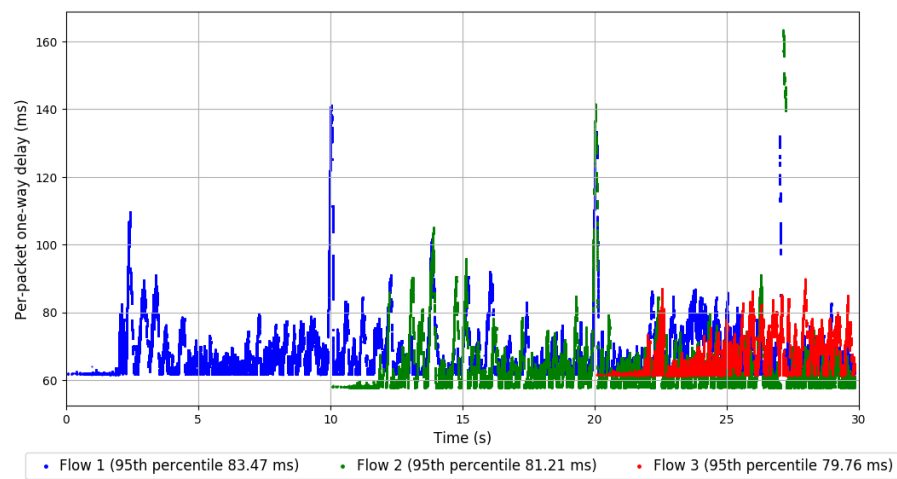
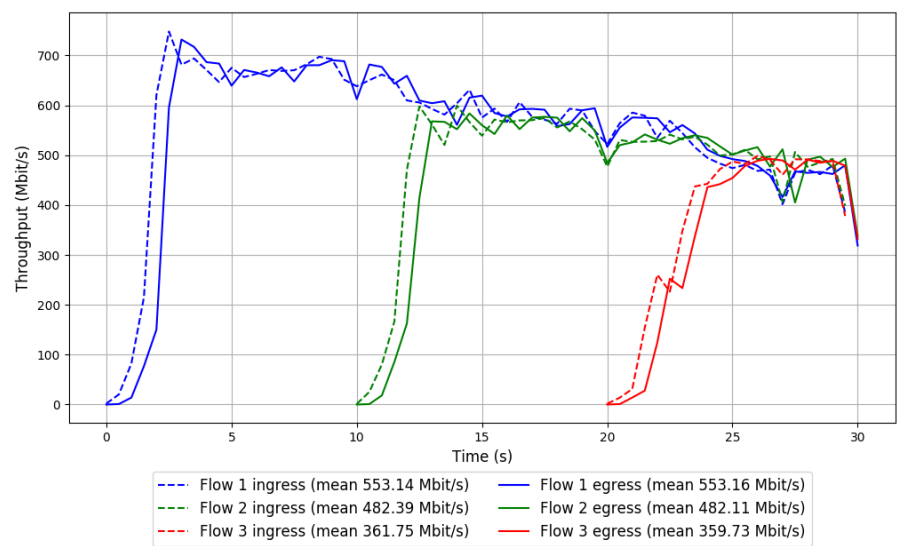


Run 5: Statistics of Indigo-Muses

Start at: 2018-12-01 06:56:43  
End at: 2018-12-01 06:57:13  
Local clock offset: 0.302 ms  
Remote clock offset: -0.748 ms

# Below is generated by plot.py at 2018-12-01 09:16:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 990.98 Mbit/s  
95th percentile per-packet one-way delay: 82.172 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 553.16 Mbit/s  
95th percentile per-packet one-way delay: 83.466 ms  
Loss rate: 0.40%  
-- Flow 2:  
Average throughput: 482.11 Mbit/s  
95th percentile per-packet one-way delay: 81.213 ms  
Loss rate: 0.64%  
-- Flow 3:  
Average throughput: 359.73 Mbit/s  
95th percentile per-packet one-way delay: 79.764 ms  
Loss rate: 1.76%

Run 5: Report of Indigo-Muses — Data Link

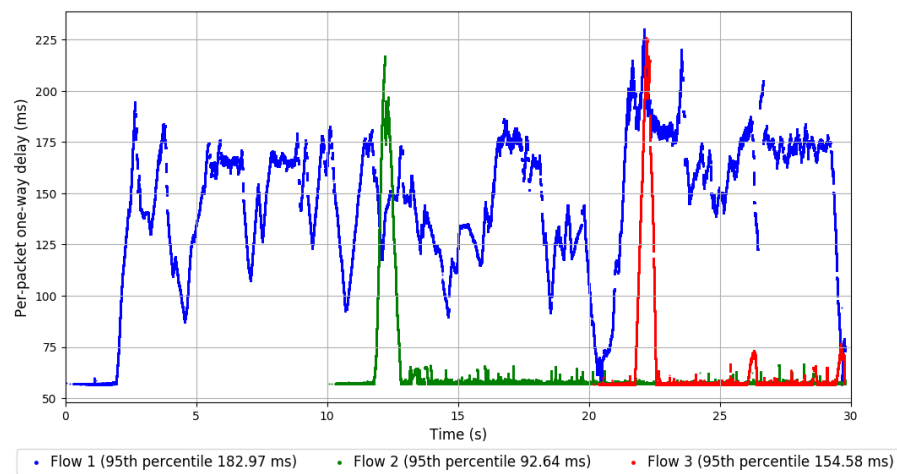
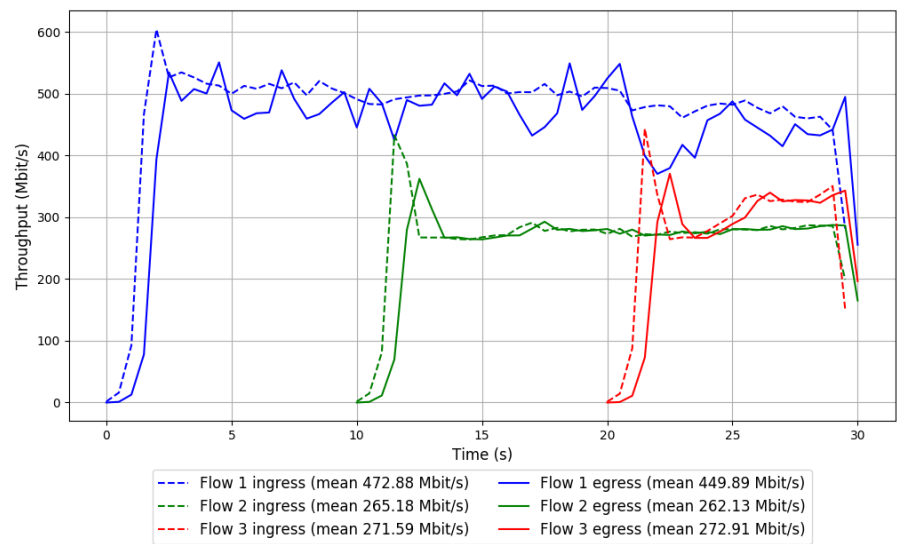


Run 1: Statistics of PCC-Allegro

Start at: 2018-12-01 04:50:01  
End at: 2018-12-01 04:50:31  
Local clock offset: -0.262 ms  
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2018-12-01 09:29:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 712.60 Mbit/s  
95th percentile per-packet one-way delay: 181.148 ms  
Loss rate: 3.95%  
-- Flow 1:  
Average throughput: 449.89 Mbit/s  
95th percentile per-packet one-way delay: 182.968 ms  
Loss rate: 5.24%  
-- Flow 2:  
Average throughput: 262.13 Mbit/s  
95th percentile per-packet one-way delay: 92.638 ms  
Loss rate: 1.74%  
-- Flow 3:  
Average throughput: 272.91 Mbit/s  
95th percentile per-packet one-way delay: 154.583 ms  
Loss rate: 1.54%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-12-01 05:26:09

End at: 2018-12-01 05:26:39

Local clock offset: -0.468 ms

Remote clock offset: 1.201 ms

# Below is generated by plot.py at 2018-12-01 09:29:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 659.52 Mbit/s

95th percentile per-packet one-way delay: 196.886 ms

Loss rate: 4.92%

-- Flow 1:

Average throughput: 370.63 Mbit/s

95th percentile per-packet one-way delay: 209.137 ms

Loss rate: 7.63%

-- Flow 2:

Average throughput: 318.62 Mbit/s

95th percentile per-packet one-way delay: 106.949 ms

Loss rate: 0.65%

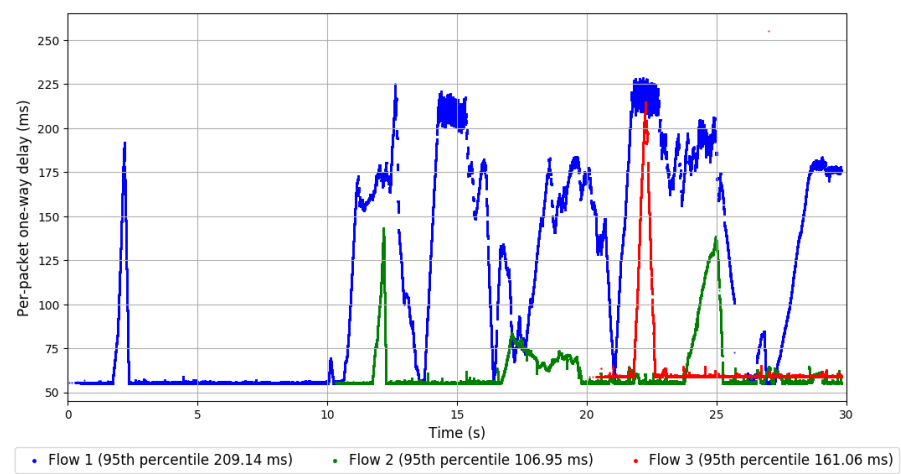
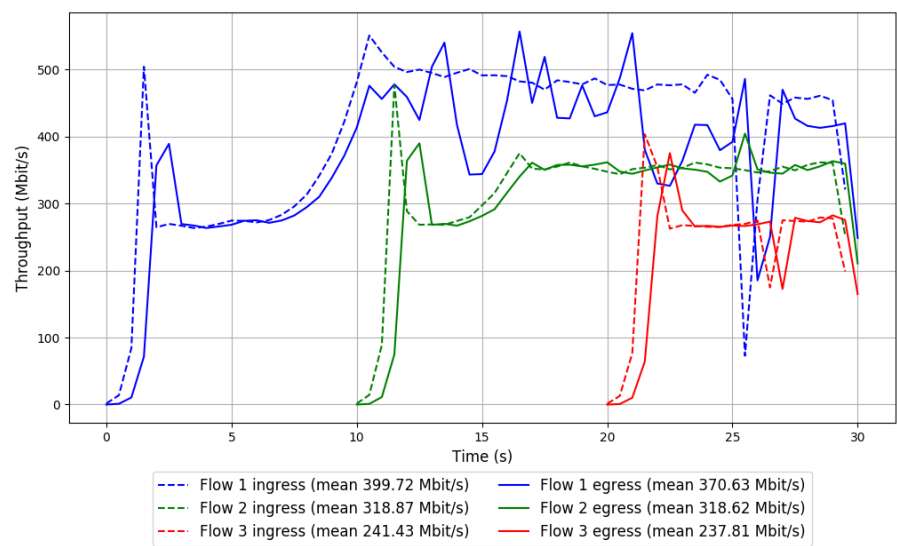
-- Flow 3:

Average throughput: 237.81 Mbit/s

95th percentile per-packet one-way delay: 161.061 ms

Loss rate: 2.68%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-12-01 06:02:08

End at: 2018-12-01 06:02:38

Local clock offset: 0.114 ms

Remote clock offset: 0.495 ms

# Below is generated by plot.py at 2018-12-01 09:29:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 679.80 Mbit/s

95th percentile per-packet one-way delay: 174.066 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 396.23 Mbit/s

95th percentile per-packet one-way delay: 177.203 ms

Loss rate: 1.48%

-- Flow 2:

Average throughput: 308.11 Mbit/s

95th percentile per-packet one-way delay: 121.937 ms

Loss rate: 0.60%

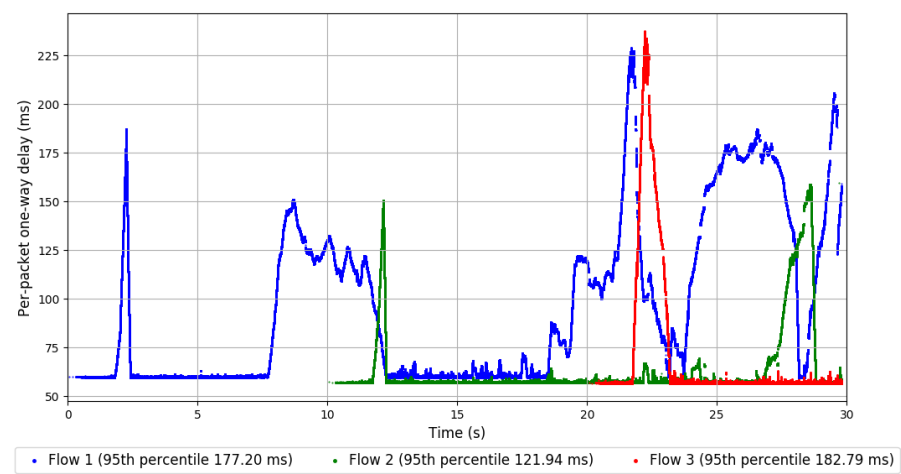
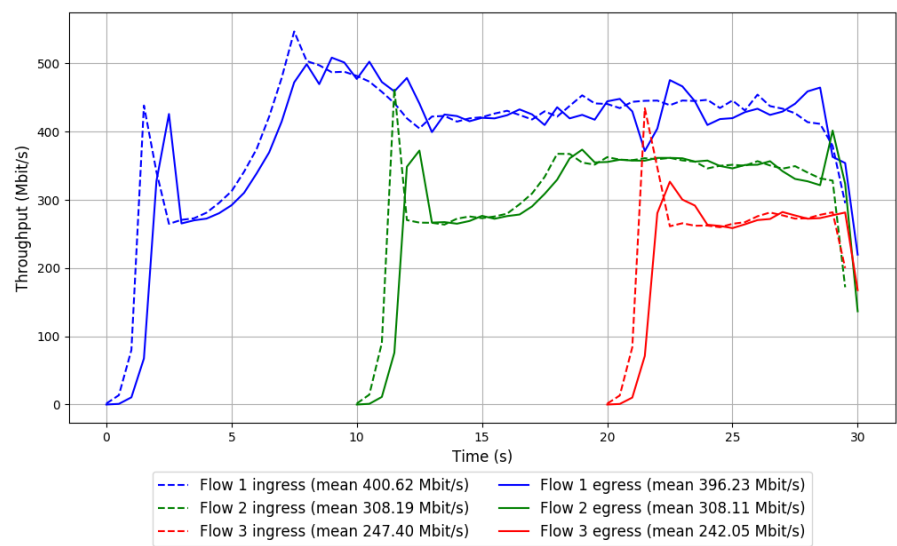
-- Flow 3:

Average throughput: 242.05 Mbit/s

95th percentile per-packet one-way delay: 182.793 ms

Loss rate: 3.30%

Run 3: Report of PCC-Allegro — Data Link





Run 4: Statistics of PCC-Allegro

Start at: 2018-12-01 06:38:29

End at: 2018-12-01 06:38:59

Local clock offset: -0.392 ms

Remote clock offset: 1.282 ms

# Below is generated by plot.py at 2018-12-01 09:47:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 738.48 Mbit/s

95th percentile per-packet one-way delay: 175.790 ms

Loss rate: 3.69%

-- Flow 1:

Average throughput: 389.10 Mbit/s

95th percentile per-packet one-way delay: 175.312 ms

Loss rate: 3.01%

-- Flow 2:

Average throughput: 403.51 Mbit/s

95th percentile per-packet one-way delay: 181.680 ms

Loss rate: 5.26%

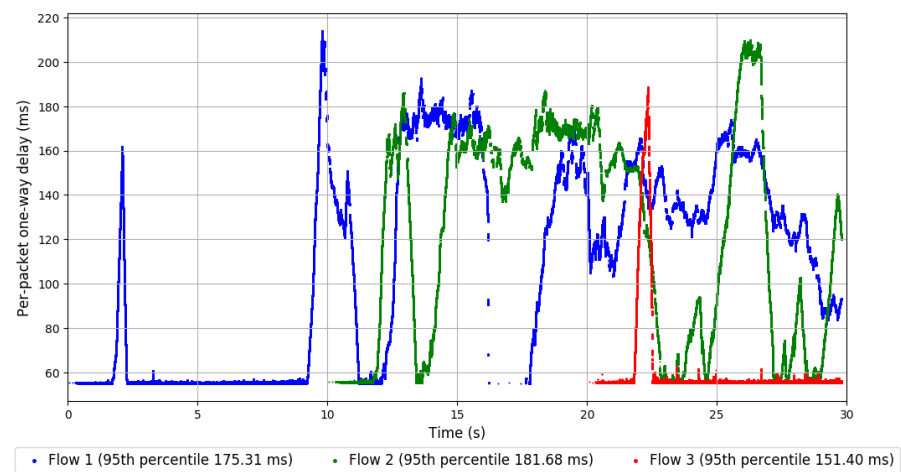
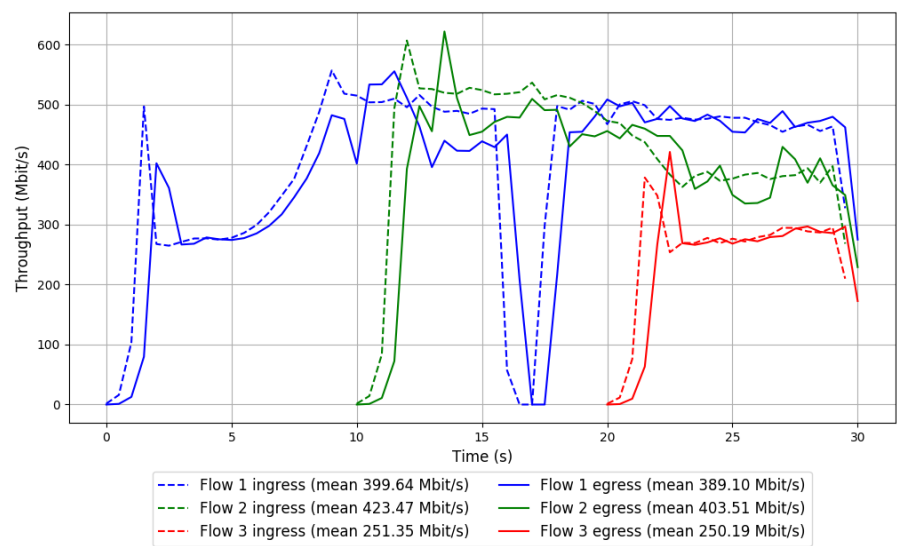
-- Flow 3:

Average throughput: 250.19 Mbit/s

95th percentile per-packet one-way delay: 151.402 ms

Loss rate: 1.63%

Run 4: Report of PCC-Allegro — Data Link

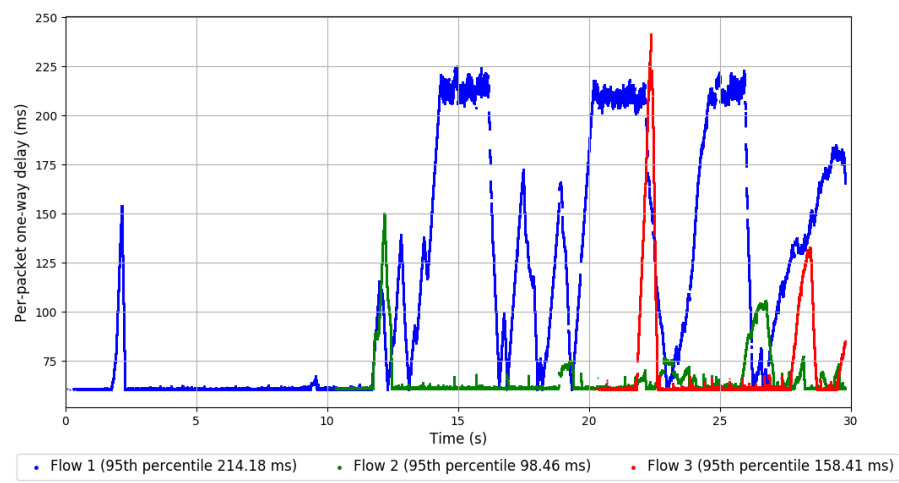
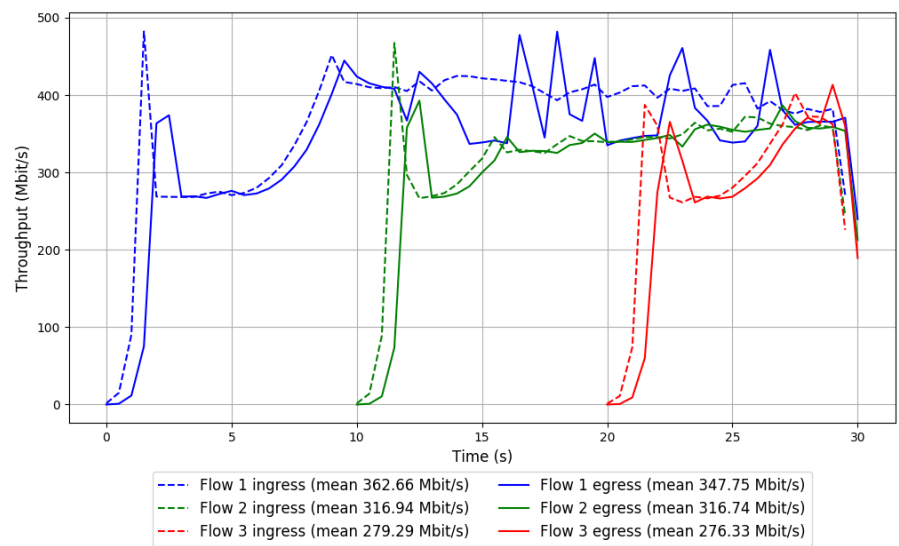


Run 5: Statistics of PCC-Allegro

Start at: 2018-12-01 07:15:10  
End at: 2018-12-01 07:15:40  
Local clock offset: 0.209 ms  
Remote clock offset: -0.144 ms

# Below is generated by plot.py at 2018-12-01 09:47:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 647.99 Mbit/s  
95th percentile per-packet one-way delay: 211.490 ms  
Loss rate: 2.98%  
-- Flow 1:  
Average throughput: 347.75 Mbit/s  
95th percentile per-packet one-way delay: 214.180 ms  
Loss rate: 4.49%  
-- Flow 2:  
Average throughput: 316.74 Mbit/s  
95th percentile per-packet one-way delay: 98.463 ms  
Loss rate: 0.66%  
-- Flow 3:  
Average throughput: 276.33 Mbit/s  
95th percentile per-packet one-way delay: 158.412 ms  
Loss rate: 2.37%

Run 5: Report of PCC-Allegro — Data Link

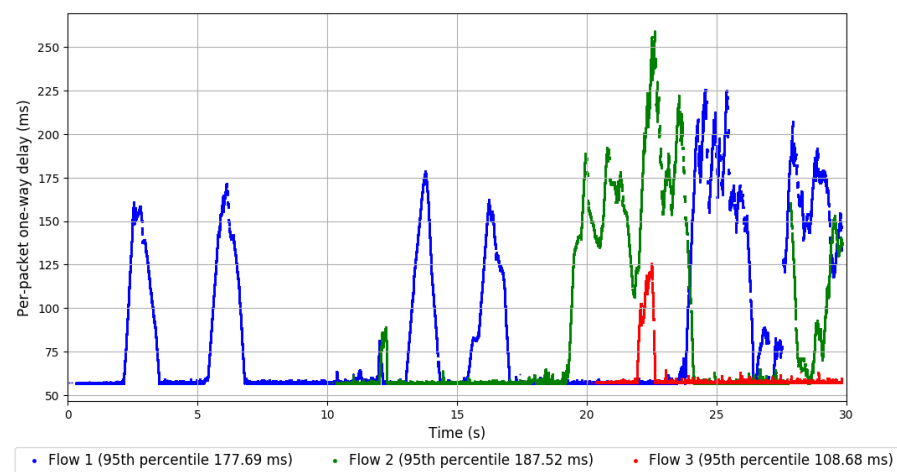
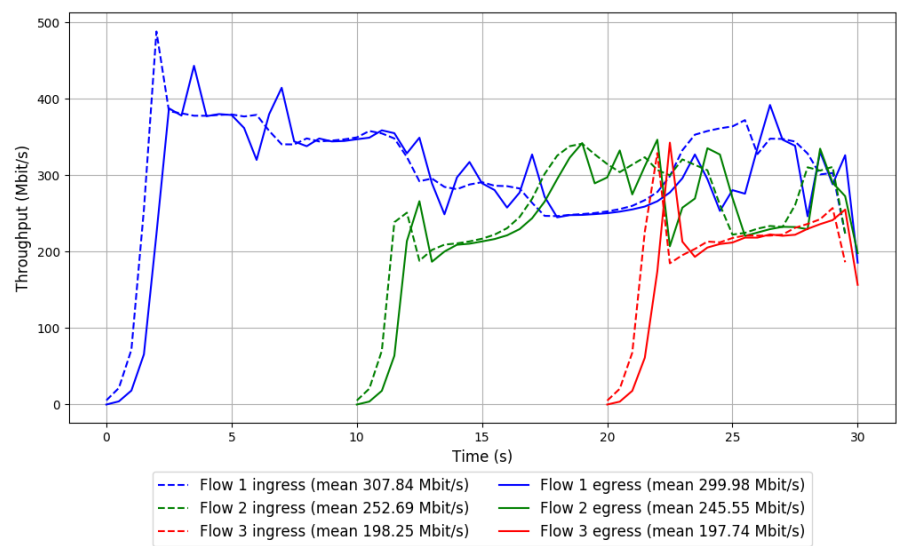


```
Run 1: Statistics of PCC-Expr

Start at: 2018-12-01 04:44:29
End at: 2018-12-01 04:44:59
Local clock offset: 0.04 ms
Remote clock offset: 0.074 ms

# Below is generated by plot.py at 2018-12-01 09:47:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 527.71 Mbit/s
95th percentile per-packet one-way delay: 178.111 ms
Loss rate: 2.91%
-- Flow 1:
Average throughput: 299.98 Mbit/s
95th percentile per-packet one-way delay: 177.693 ms
Loss rate: 2.94%
-- Flow 2:
Average throughput: 245.55 Mbit/s
95th percentile per-packet one-way delay: 187.524 ms
Loss rate: 3.40%
-- Flow 3:
Average throughput: 197.74 Mbit/s
95th percentile per-packet one-way delay: 108.676 ms
Loss rate: 1.53%
```

Run 1: Report of PCC-Expr — Data Link

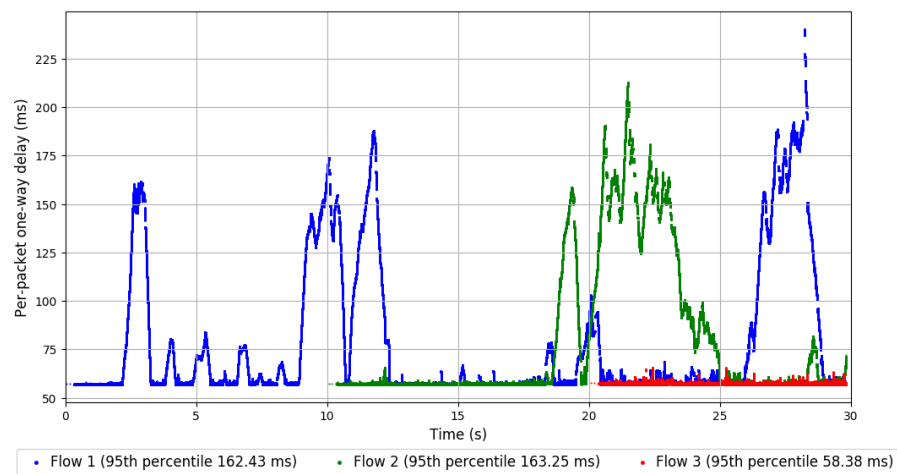
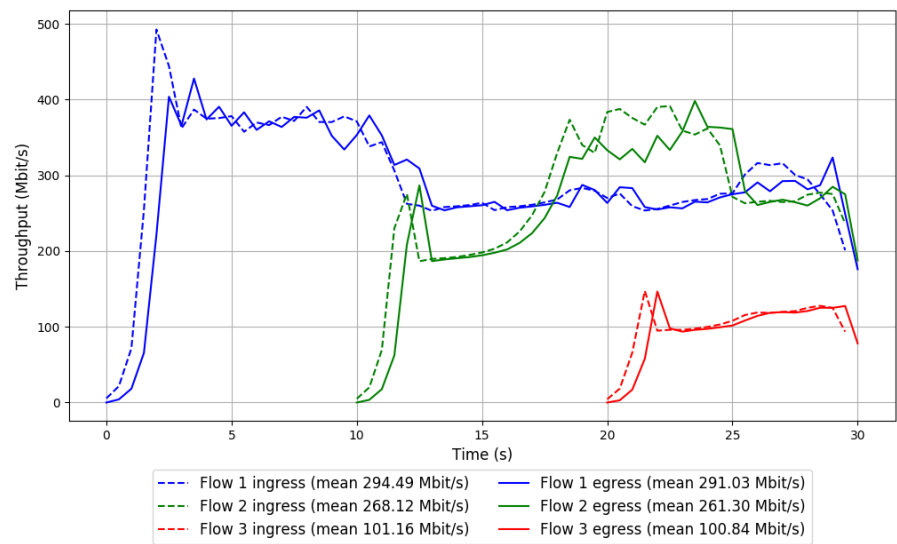


Run 2: Statistics of PCC-Expr

Start at: 2018-12-01 05:20:34  
End at: 2018-12-01 05:21:04  
Local clock offset: 0.009 ms  
Remote clock offset: -0.202 ms

# Below is generated by plot.py at 2018-12-01 09:47:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 497.52 Mbit/s  
95th percentile per-packet one-way delay: 161.972 ms  
Loss rate: 2.09%  
-- Flow 1:  
Average throughput: 291.03 Mbit/s  
95th percentile per-packet one-way delay: 162.433 ms  
Loss rate: 1.55%  
-- Flow 2:  
Average throughput: 261.30 Mbit/s  
95th percentile per-packet one-way delay: 163.248 ms  
Loss rate: 3.10%  
-- Flow 3:  
Average throughput: 100.84 Mbit/s  
95th percentile per-packet one-way delay: 58.383 ms  
Loss rate: 1.48%

Run 2: Report of PCC-Expr — Data Link



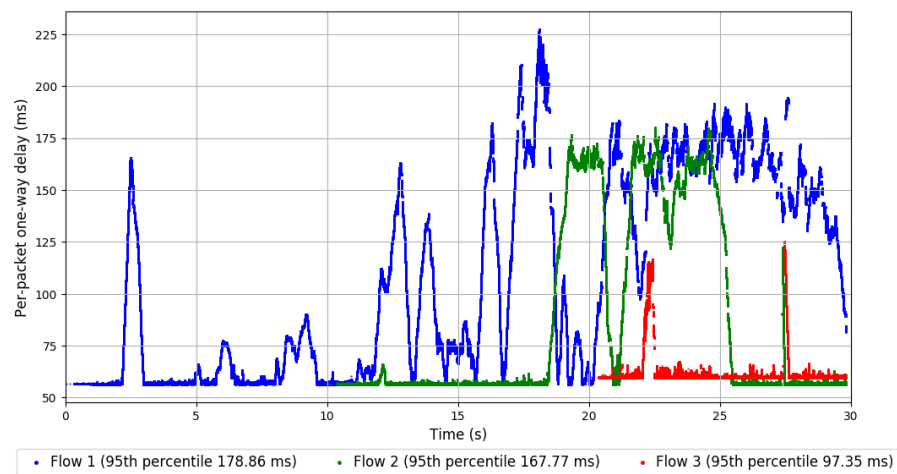
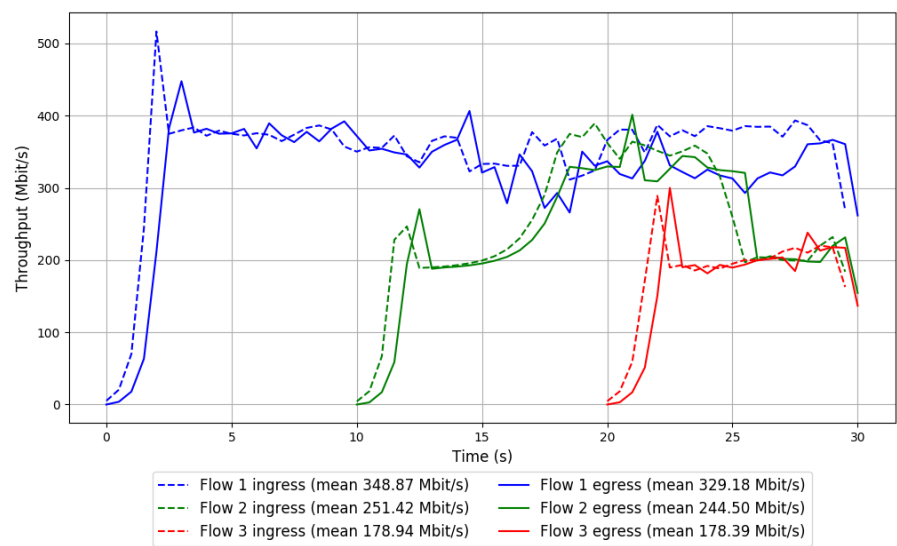


Run 3: Statistics of PCC-Expr

Start at: 2018-12-01 05:56:40  
End at: 2018-12-01 05:57:10  
Local clock offset: -0.527 ms  
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2018-12-01 09:47:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 549.83 Mbit/s  
95th percentile per-packet one-way delay: 174.004 ms  
Loss rate: 4.76%  
-- Flow 1:  
Average throughput: 329.18 Mbit/s  
95th percentile per-packet one-way delay: 178.859 ms  
Loss rate: 6.01%  
-- Flow 2:  
Average throughput: 244.50 Mbit/s  
95th percentile per-packet one-way delay: 167.769 ms  
Loss rate: 3.32%  
-- Flow 3:  
Average throughput: 178.39 Mbit/s  
95th percentile per-packet one-way delay: 97.350 ms  
Loss rate: 1.49%

Run 3: Report of PCC-Expr — Data Link

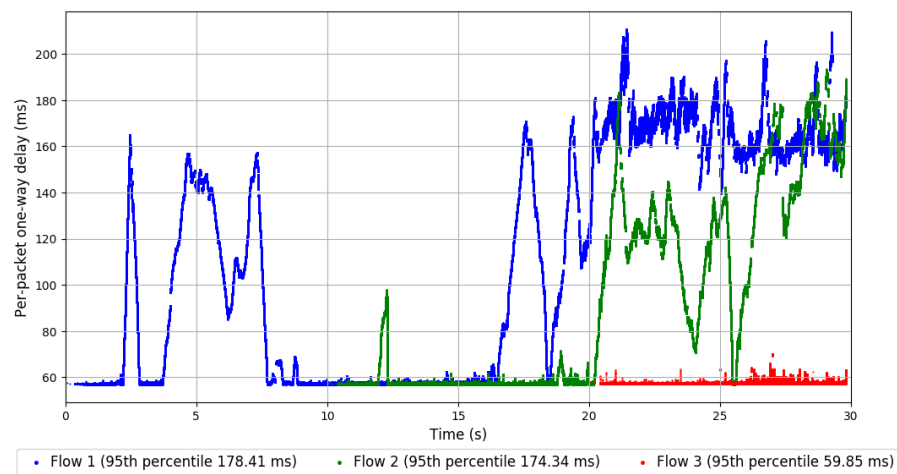
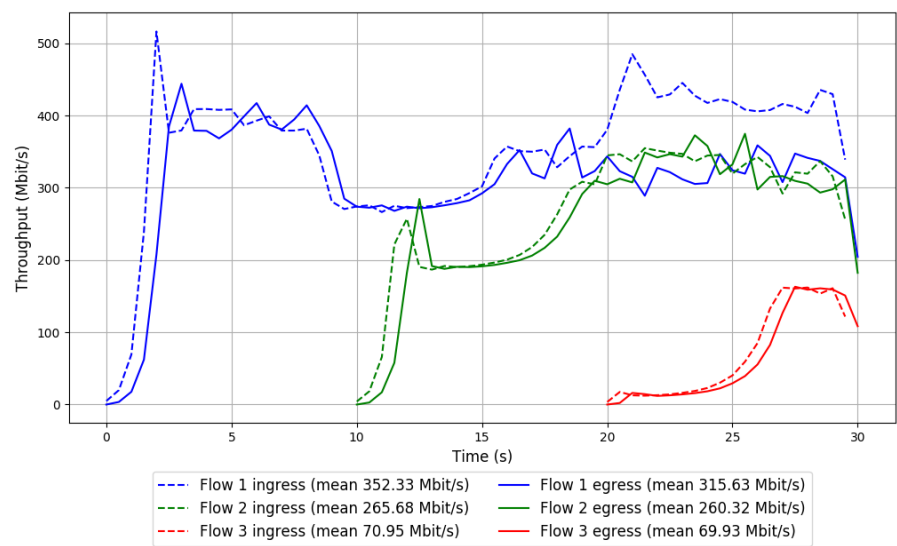


Run 4: Statistics of PCC-Expr

Start at: 2018-12-01 06:32:57  
End at: 2018-12-01 06:33:27  
Local clock offset: -0.043 ms  
Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2018-12-01 09:49:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 511.32 Mbit/s  
95th percentile per-packet one-way delay: 176.614 ms  
Loss rate: 7.80%  
-- Flow 1:  
Average throughput: 315.63 Mbit/s  
95th percentile per-packet one-way delay: 178.413 ms  
Loss rate: 10.76%  
-- Flow 2:  
Average throughput: 260.32 Mbit/s  
95th percentile per-packet one-way delay: 174.339 ms  
Loss rate: 2.58%  
-- Flow 3:  
Average throughput: 69.93 Mbit/s  
95th percentile per-packet one-way delay: 59.851 ms  
Loss rate: 2.60%

Run 4: Report of PCC-Expr — Data Link

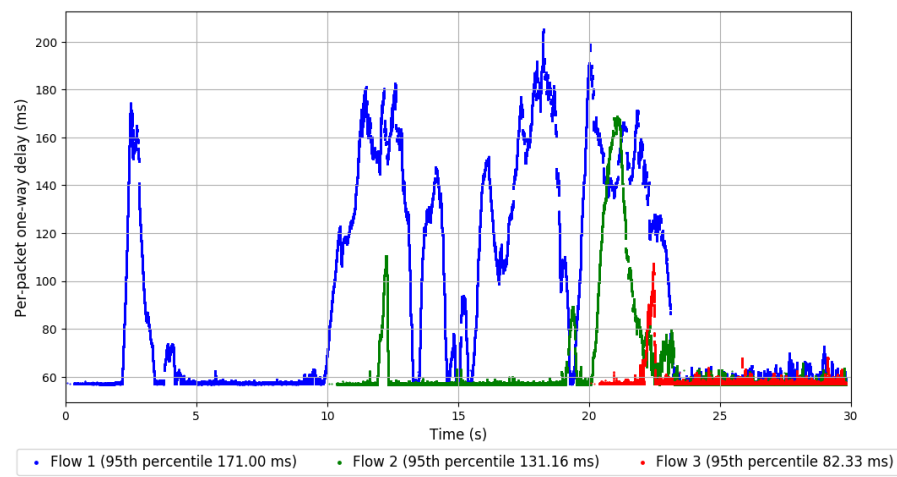
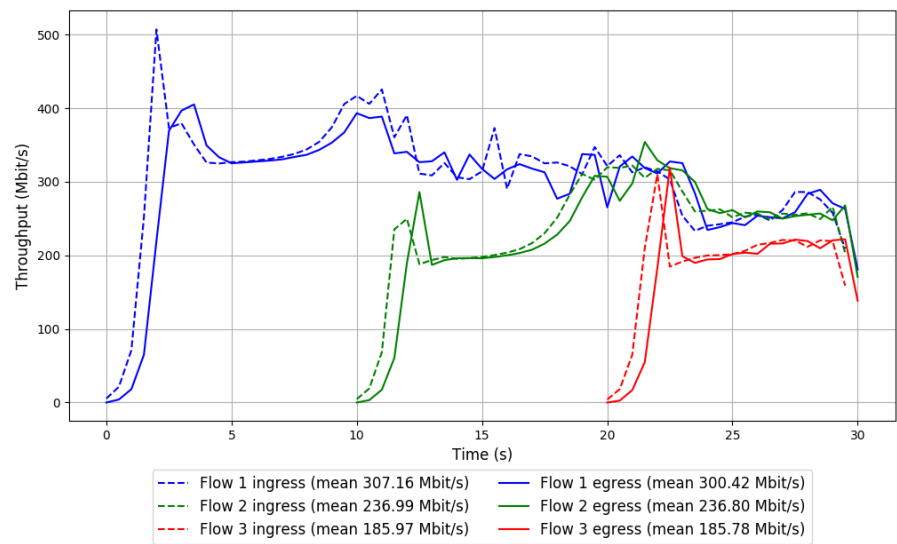


Run 5: Statistics of PCC-Expr

Start at: 2018-12-01 07:09:28  
End at: 2018-12-01 07:09:58  
Local clock offset: -0.241 ms  
Remote clock offset: -0.108 ms

# Below is generated by plot.py at 2018-12-01 09:50:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 518.48 Mbit/s  
95th percentile per-packet one-way delay: 164.189 ms  
Loss rate: 1.84%  
-- Flow 1:  
Average throughput: 300.42 Mbit/s  
95th percentile per-packet one-way delay: 171.004 ms  
Loss rate: 2.57%  
-- Flow 2:  
Average throughput: 236.80 Mbit/s  
95th percentile per-packet one-way delay: 131.165 ms  
Loss rate: 0.65%  
-- Flow 3:  
Average throughput: 185.78 Mbit/s  
95th percentile per-packet one-way delay: 82.328 ms  
Loss rate: 1.27%

Run 5: Report of PCC-Expr — Data Link

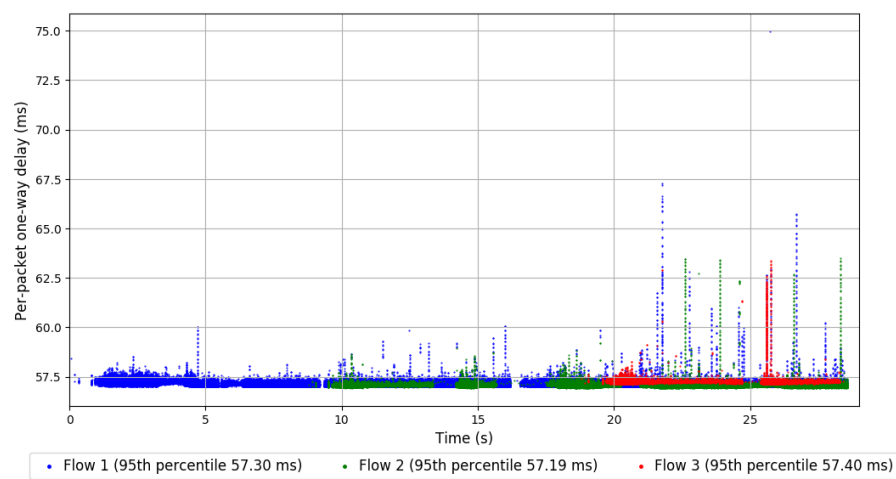
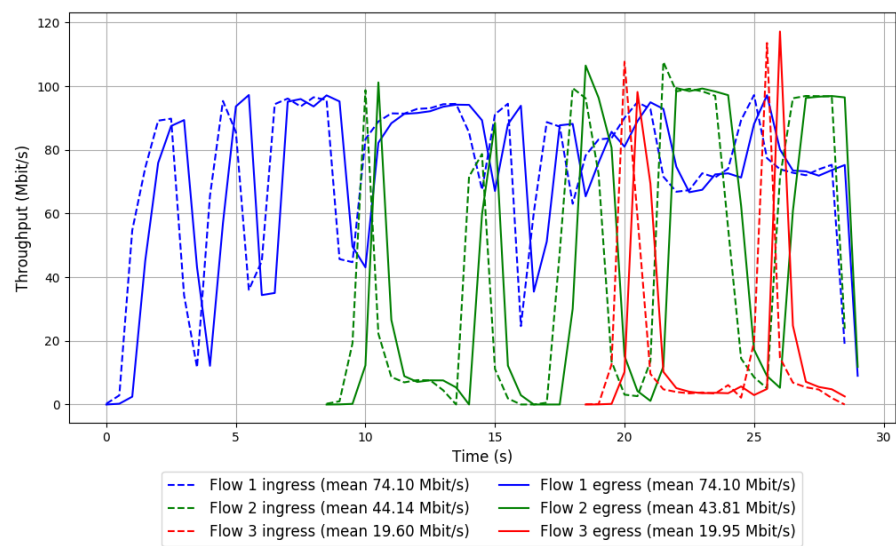


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-12-01 04:24:42
End at: 2018-12-01 04:25:12
Local clock offset: -0.038 ms
Remote clock offset: 0.06 ms

# Below is generated by plot.py at 2018-12-01 09:50:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 111.22 Mbit/s
95th percentile per-packet one-way delay: 57.298 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 74.10 Mbit/s
95th percentile per-packet one-way delay: 57.304 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 43.81 Mbit/s
95th percentile per-packet one-way delay: 57.185 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 19.95 Mbit/s
95th percentile per-packet one-way delay: 57.399 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link



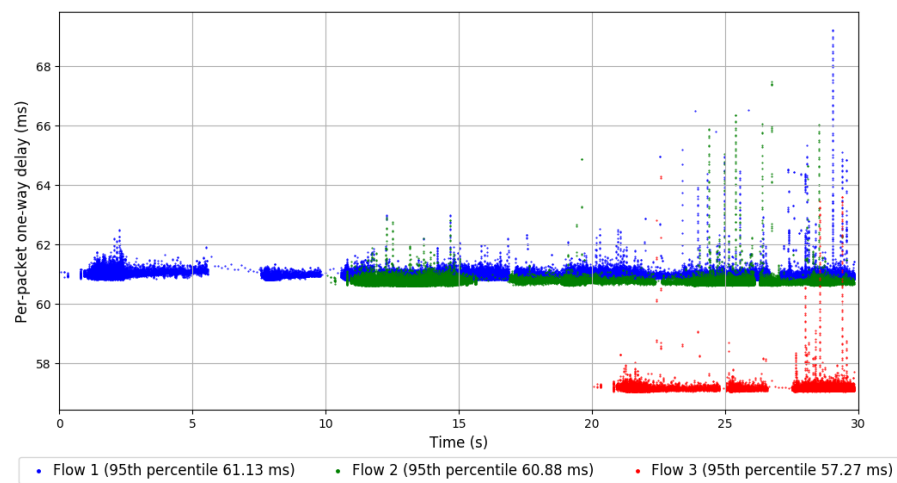
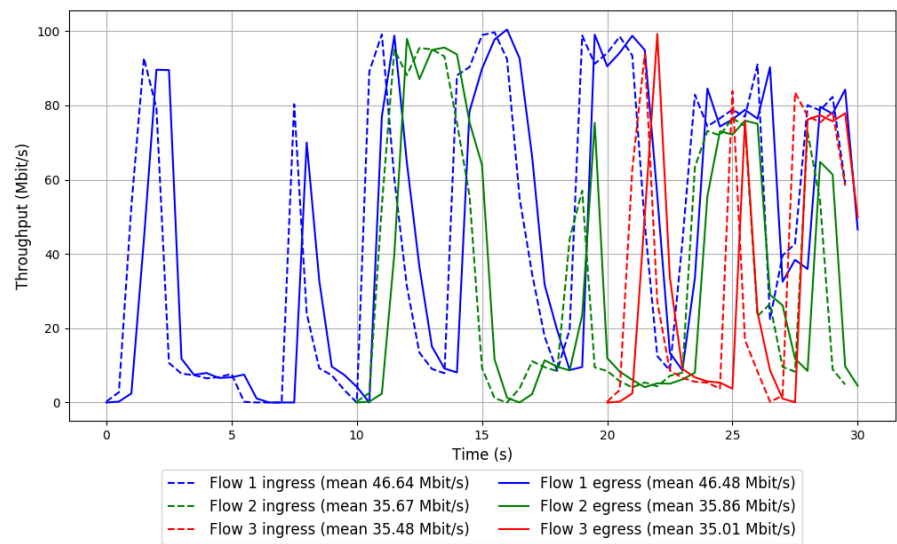


Run 2: Statistics of QUIC Cubic

Start at: 2018-12-01 05:00:25  
End at: 2018-12-01 05:00:55  
Local clock offset: 0.401 ms  
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2018-12-01 09:50:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.77 Mbit/s  
95th percentile per-packet one-way delay: 61.085 ms  
Loss rate: 0.80%  
-- Flow 1:  
Average throughput: 46.48 Mbit/s  
95th percentile per-packet one-way delay: 61.131 ms  
Loss rate: 0.74%  
-- Flow 2:  
Average throughput: 35.86 Mbit/s  
95th percentile per-packet one-way delay: 60.884 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 35.01 Mbit/s  
95th percentile per-packet one-way delay: 57.273 ms  
Loss rate: 2.47%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-12-01 05:36:50

End at: 2018-12-01 05:37:20

Local clock offset: -0.514 ms

Remote clock offset: 1.043 ms

# Below is generated by plot.py at 2018-12-01 09:50:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.15 Mbit/s

95th percentile per-packet one-way delay: 55.888 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 46.89 Mbit/s

95th percentile per-packet one-way delay: 55.594 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 46.13 Mbit/s

95th percentile per-packet one-way delay: 55.966 ms

Loss rate: 0.89%

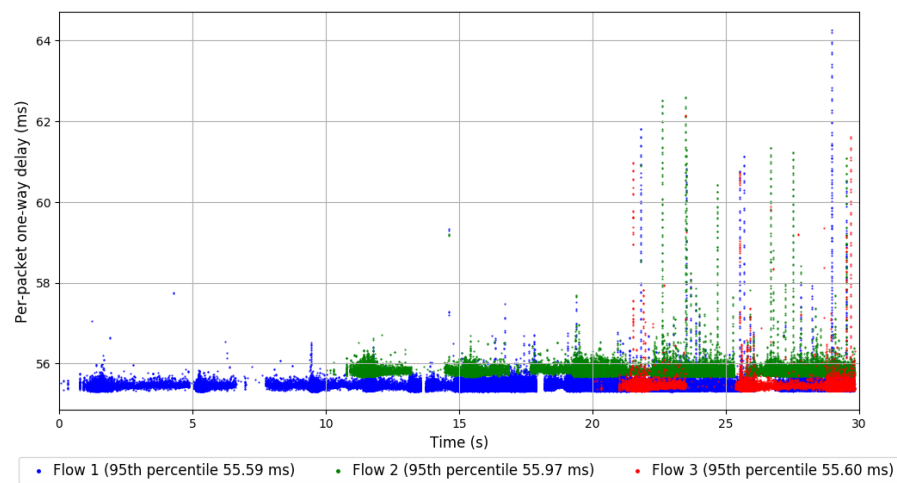
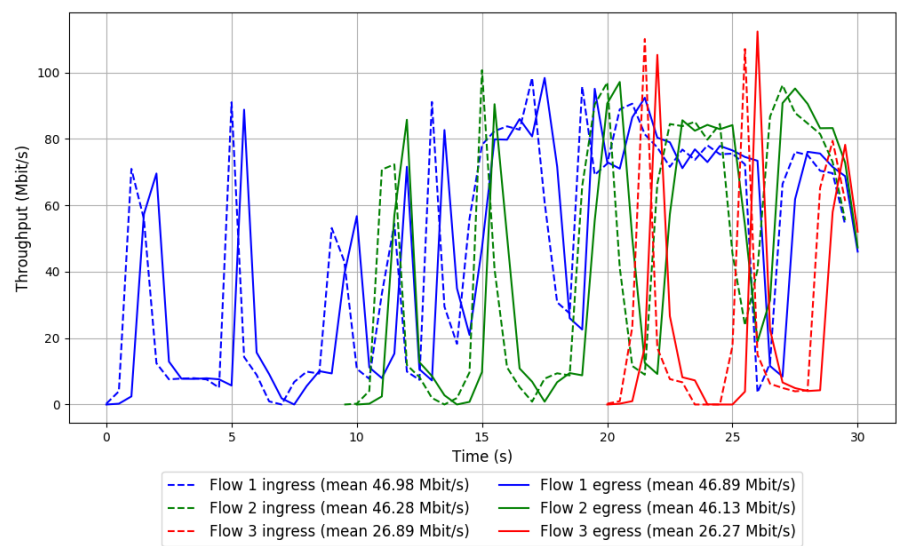
-- Flow 3:

Average throughput: 26.27 Mbit/s

95th percentile per-packet one-way delay: 55.597 ms

Loss rate: 3.42%

Run 3: Report of QUIC Cubic — Data Link

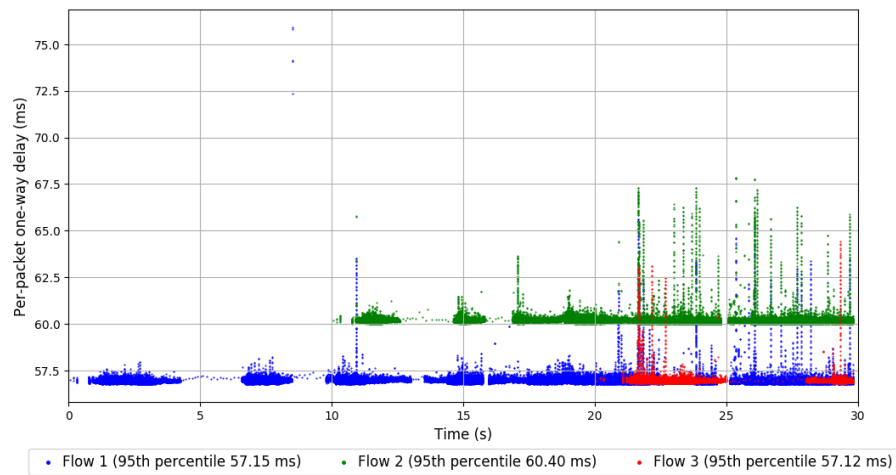
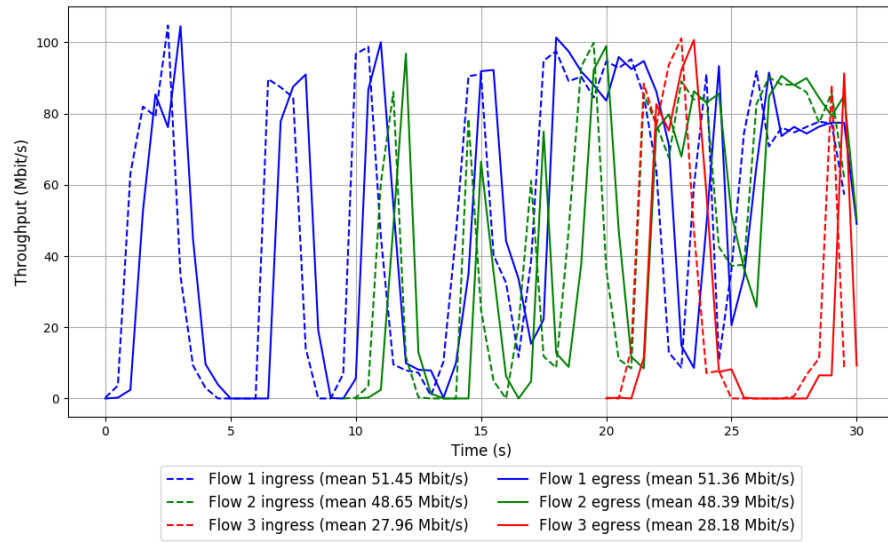


Run 4: Statistics of QUIC Cubic

Start at: 2018-12-01 06:12:21  
End at: 2018-12-01 06:12:51  
Local clock offset: -0.065 ms  
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2018-12-01 09:50:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.74 Mbit/s  
95th percentile per-packet one-way delay: 60.264 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 51.36 Mbit/s  
95th percentile per-packet one-way delay: 57.150 ms  
Loss rate: 0.55%  
-- Flow 2:  
Average throughput: 48.39 Mbit/s  
95th percentile per-packet one-way delay: 60.395 ms  
Loss rate: 1.12%  
-- Flow 3:  
Average throughput: 28.18 Mbit/s  
95th percentile per-packet one-way delay: 57.115 ms  
Loss rate: 0.36%

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



Run 5: Statistics of QUIC Cubic

Start at: 2018-12-01 06:49:23

End at: 2018-12-01 06:49:53

Local clock offset: 0.36 ms

Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2018-12-01 09:50:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.62 Mbit/s

95th percentile per-packet one-way delay: 60.919 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 59.46 Mbit/s

95th percentile per-packet one-way delay: 60.841 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 30.96 Mbit/s

95th percentile per-packet one-way delay: 61.012 ms

Loss rate: 0.71%

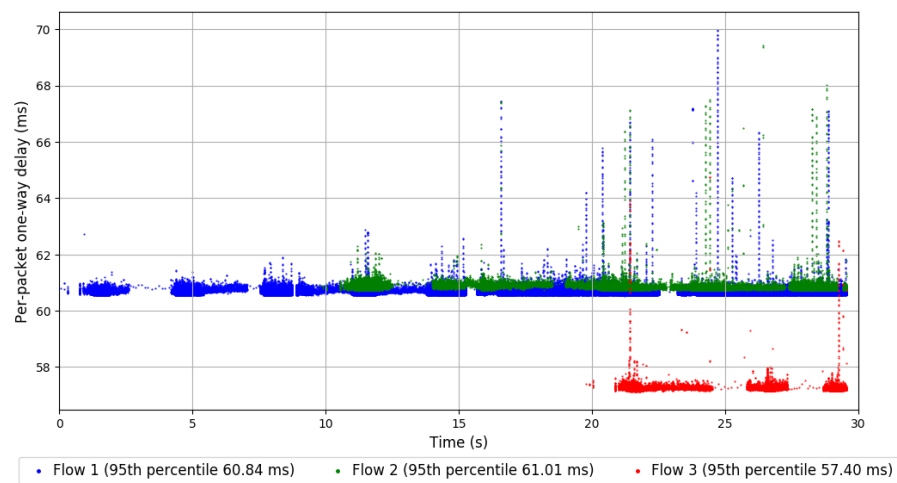
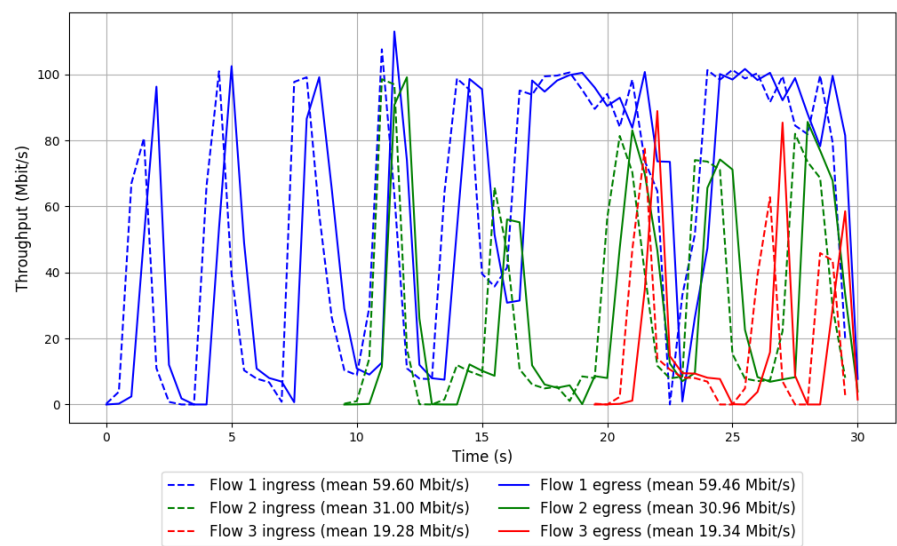
-- Flow 3:

Average throughput: 19.34 Mbit/s

95th percentile per-packet one-way delay: 57.400 ms

Loss rate: 0.81%

Run 5: Report of QUIC Cubic — Data Link



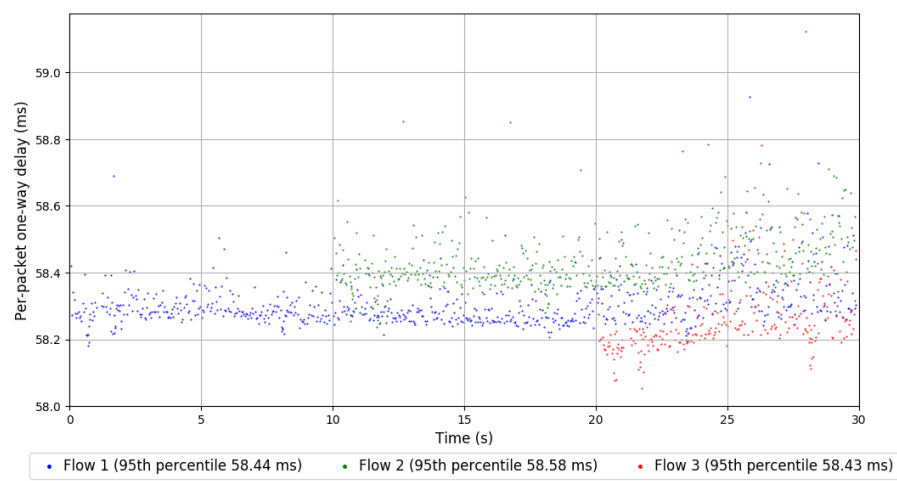
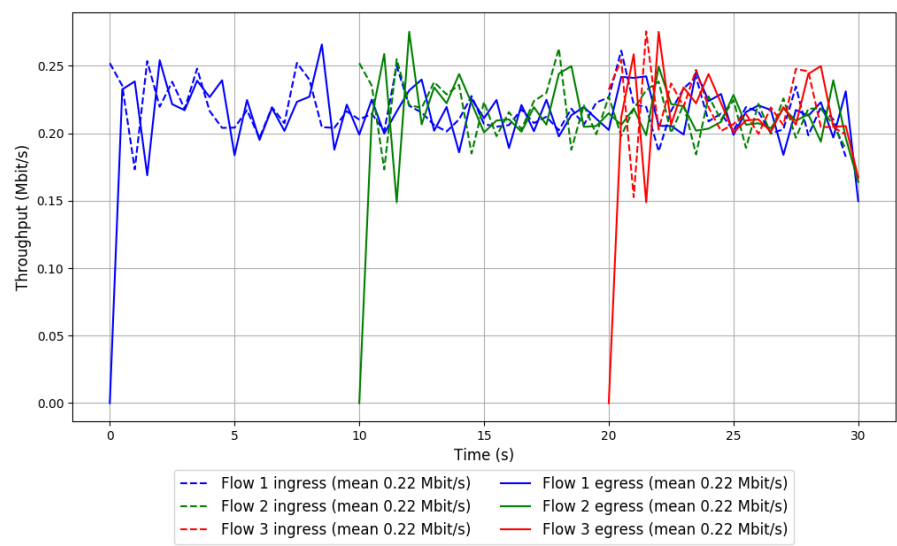


```
Run 1: Statistics of SReAM

Start at: 2018-12-01 04:26:02
End at: 2018-12-01 04:26:32
Local clock offset: 0.14 ms
Remote clock offset: -0.822 ms

# Below is generated by plot.py at 2018-12-01 09:50:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 58.534 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 58.443 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 58.581 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 58.433 ms
Loss rate: 1.08%
```

Run 1: Report of SCReAM — Data Link

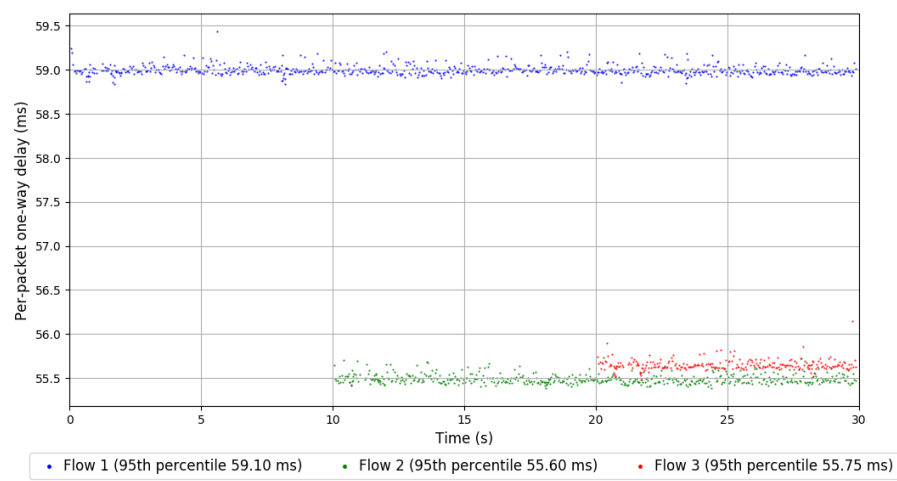
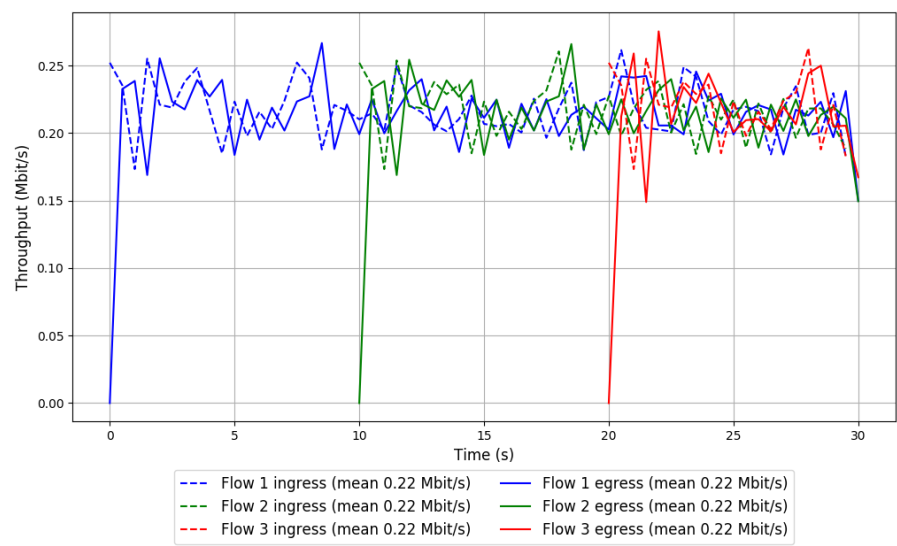


```
Run 2: Statistics of SReAM

Start at: 2018-12-01 05:01:44
End at: 2018-12-01 05:02:14
Local clock offset: 0.0 ms
Remote clock offset: 1.376 ms

# Below is generated by plot.py at 2018-12-01 09:50:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 59.059 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 59.096 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 55.604 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 55.751 ms
Loss rate: 1.08%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-12-01 05:38:09

End at: 2018-12-01 05:38:39

Local clock offset: -0.352 ms

Remote clock offset: -0.27 ms

# Below is generated by plot.py at 2018-12-01 09:50:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 60.426 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 57.195 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 60.471 ms

Loss rate: 0.61%

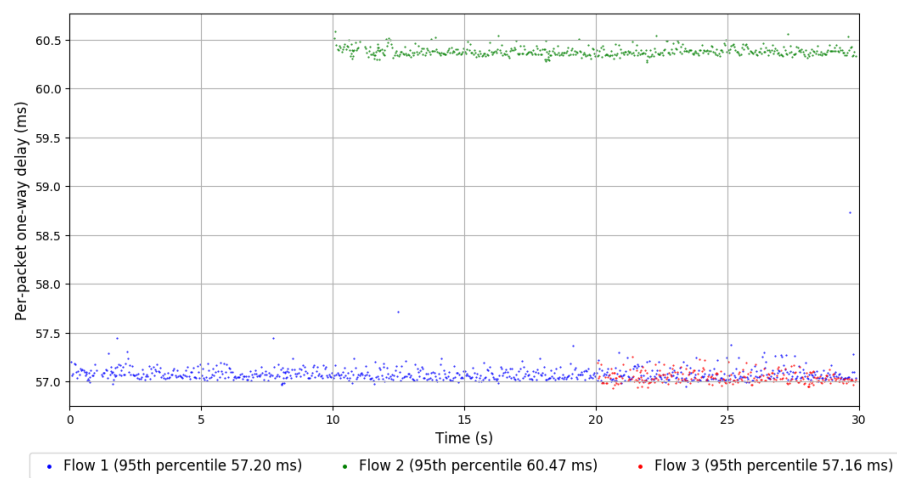
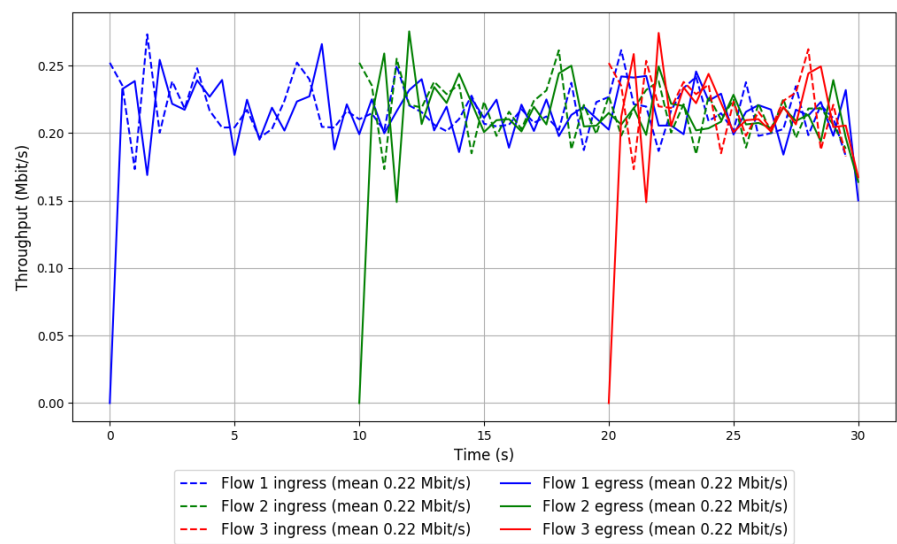
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 57.159 ms

Loss rate: 1.09%

Run 3: Report of SReAM — Data Link

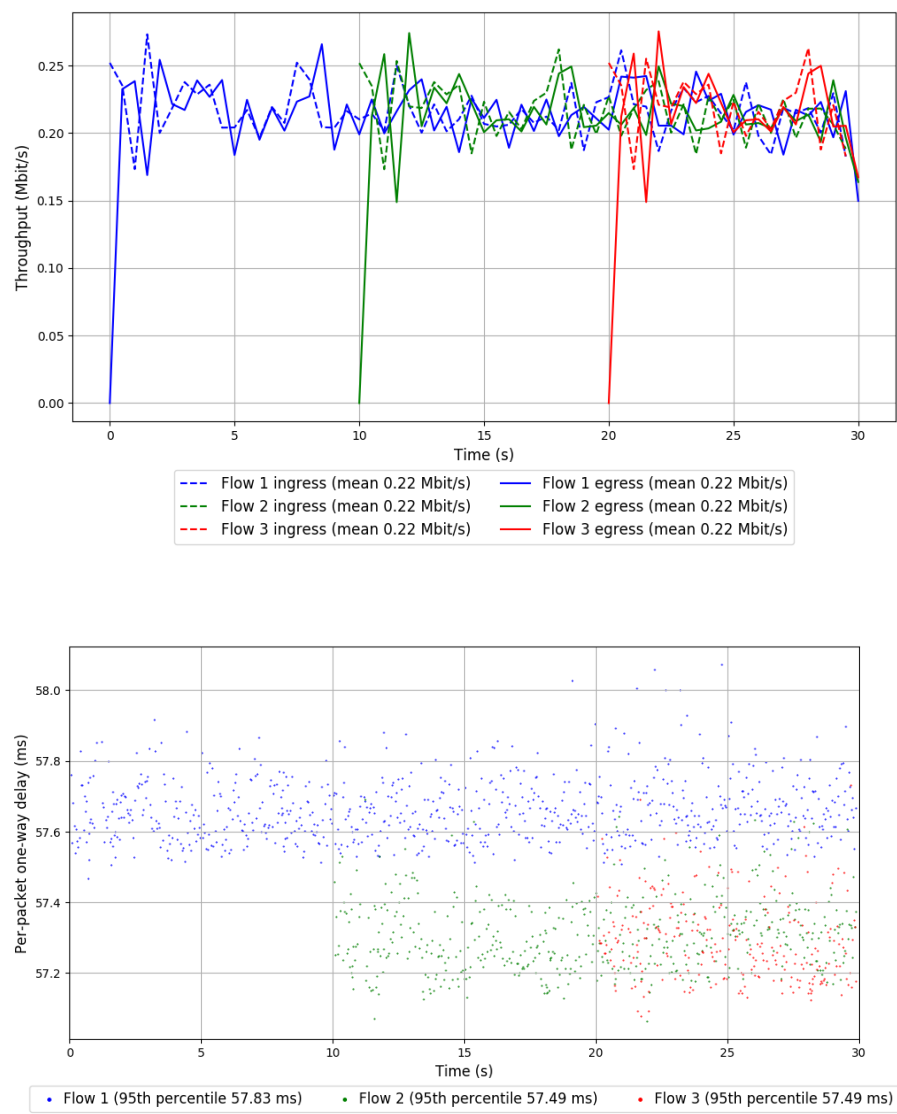


Run 4: Statistics of SReAM

Start at: 2018-12-01 06:13:42  
End at: 2018-12-01 06:14:12  
Local clock offset: -0.019 ms  
Remote clock offset: -0.127 ms

# Below is generated by plot.py at 2018-12-01 09:50:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 57.776 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 57.827 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 57.493 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 57.494 ms  
Loss rate: 1.08%

Run 4: Report of SReAM — Data Link





Run 5: Statistics of SReAM

Start at: 2018-12-01 06:50:43

End at: 2018-12-01 06:51:13

Local clock offset: 0.5 ms

Remote clock offset: 0.654 ms

# Below is generated by plot.py at 2018-12-01 09:50:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 60.415 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 60.447 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 57.241 ms

Loss rate: 0.61%

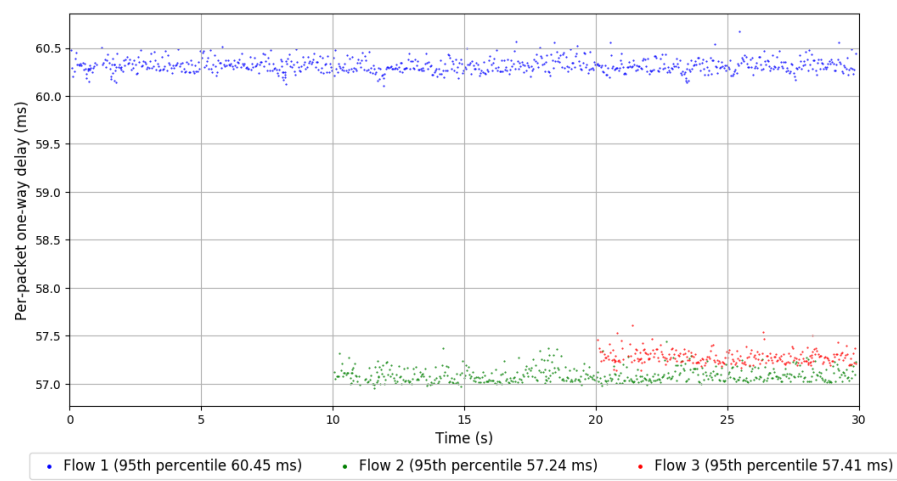
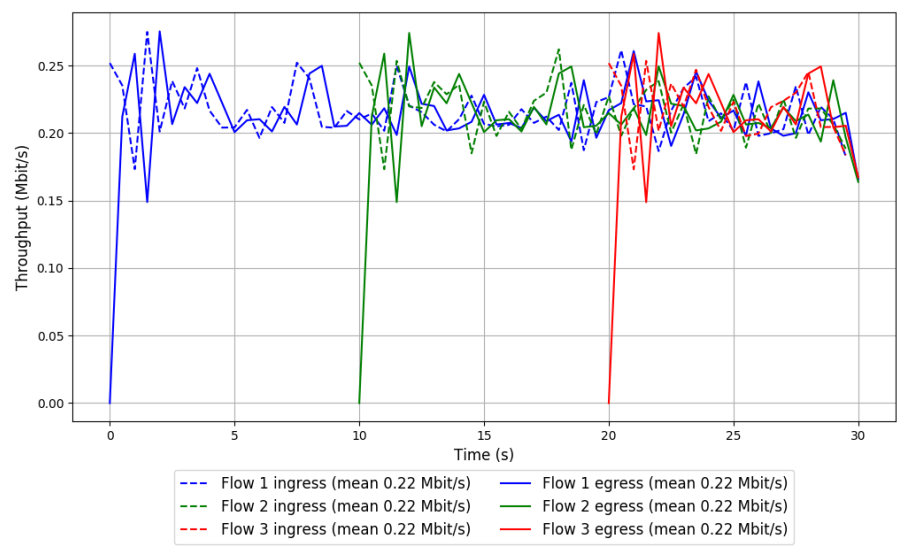
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 57.406 ms

Loss rate: 0.74%

Run 5: Report of SReAM — Data Link

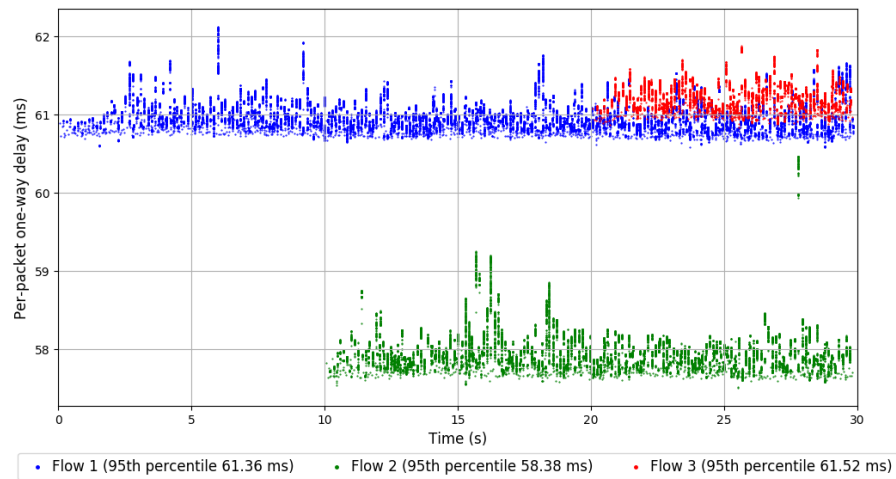
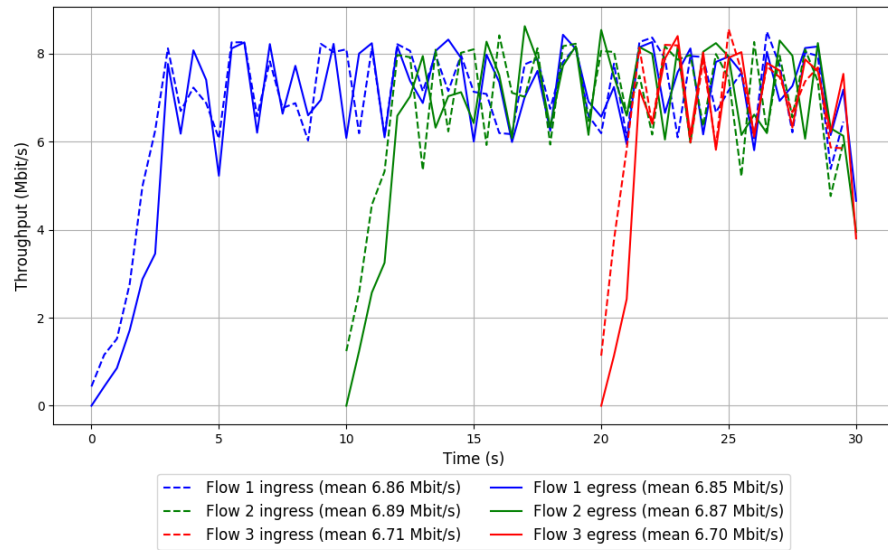


Run 1: Statistics of Sprout

Start at: 2018-12-01 04:48:47  
End at: 2018-12-01 04:49:17  
Local clock offset: -0.036 ms  
Remote clock offset: -0.541 ms

# Below is generated by plot.py at 2018-12-01 09:50:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 13.60 Mbit/s  
95th percentile per-packet one-way delay: 61.392 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 6.85 Mbit/s  
95th percentile per-packet one-way delay: 61.356 ms  
Loss rate: 0.44%  
-- Flow 2:  
Average throughput: 6.87 Mbit/s  
95th percentile per-packet one-way delay: 58.383 ms  
Loss rate: 0.76%  
-- Flow 3:  
Average throughput: 6.70 Mbit/s  
95th percentile per-packet one-way delay: 61.524 ms  
Loss rate: 1.55%

# Run 1: Report of Sprout — Data Link

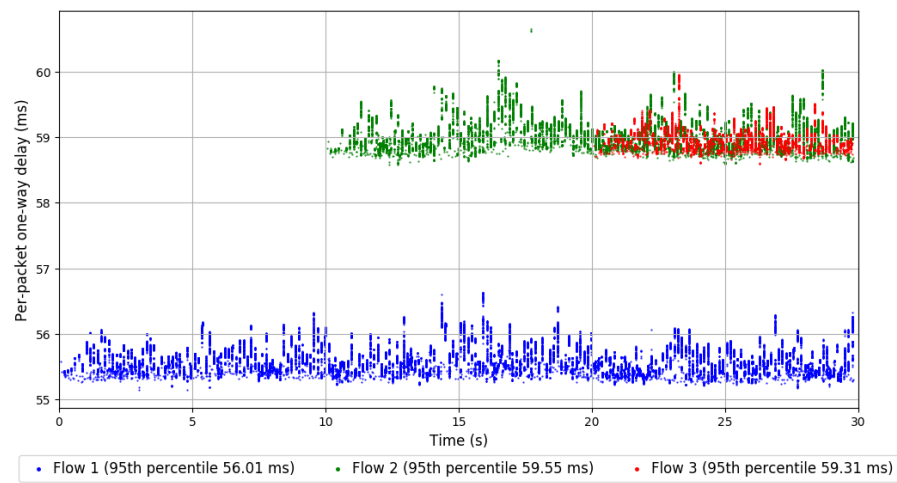
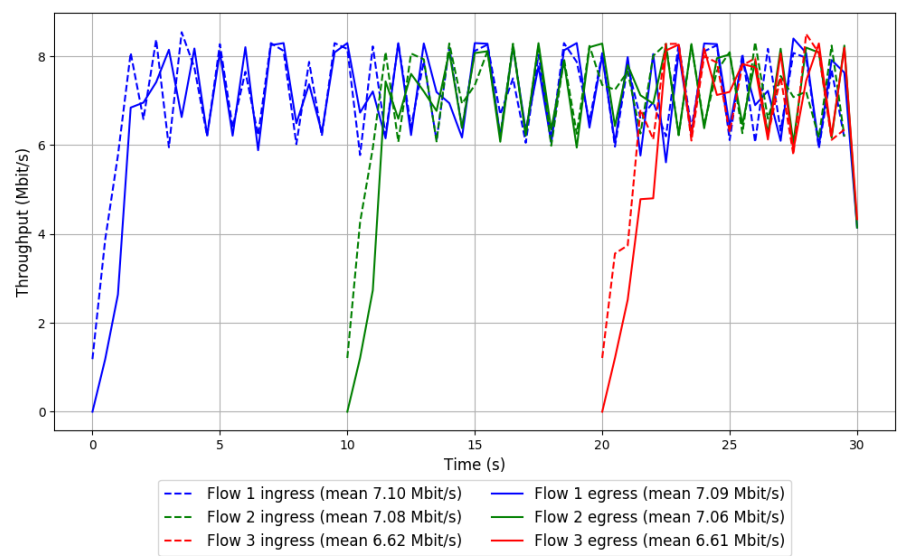


## Run 2: Statistics of Sprout

Start at: 2018-12-01 05:24:55  
End at: 2018-12-01 05:25:25  
Local clock offset: -0.448 ms  
Remote clock offset: 1.139 ms

```
# Below is generated by plot.py at 2018-12-01 09:50:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.93 Mbit/s
95th percentile per-packet one-way delay: 59.341 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 7.09 Mbit/s
95th percentile per-packet one-way delay: 56.009 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 7.06 Mbit/s
95th percentile per-packet one-way delay: 59.545 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 6.61 Mbit/s
95th percentile per-packet one-way delay: 59.309 ms
Loss rate: 1.54%
```

Run 2: Report of Sprout — Data Link

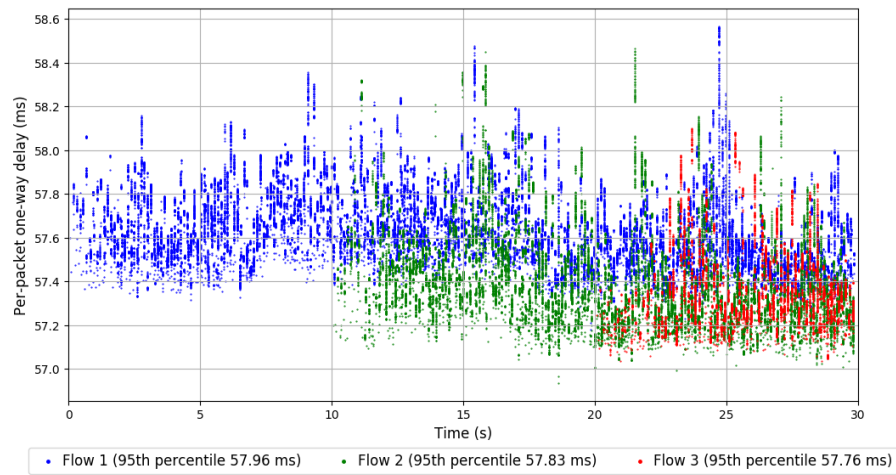
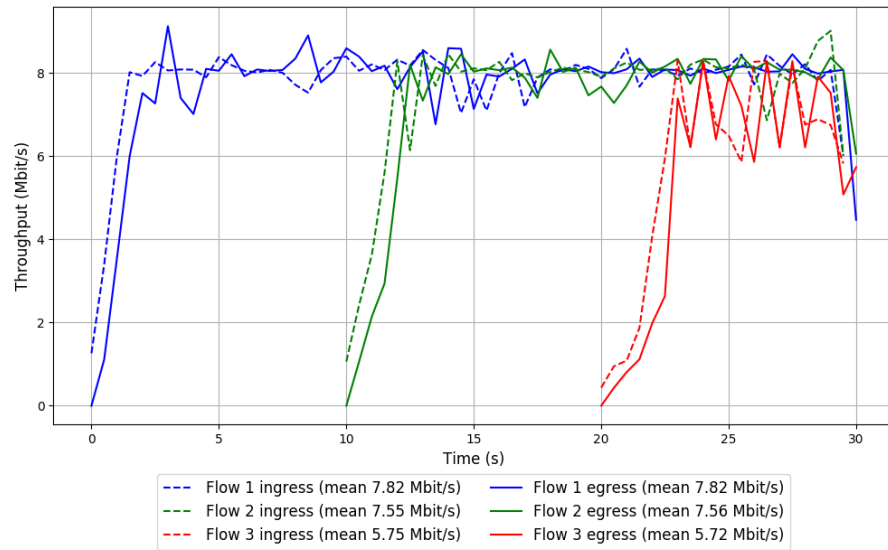


### Run 3: Statistics of Sprout

Start at: 2018-12-01 06:00:55  
End at: 2018-12-01 06:01:25  
Local clock offset: -0.159 ms  
Remote clock offset: -0.166 ms

```
# Below is generated by plot.py at 2018-12-01 09:50:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.71 Mbit/s
95th percentile per-packet one-way delay: 57.916 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 7.82 Mbit/s
95th percentile per-packet one-way delay: 57.956 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 7.56 Mbit/s
95th percentile per-packet one-way delay: 57.833 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 5.72 Mbit/s
95th percentile per-packet one-way delay: 57.757 ms
Loss rate: 1.71%
```

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



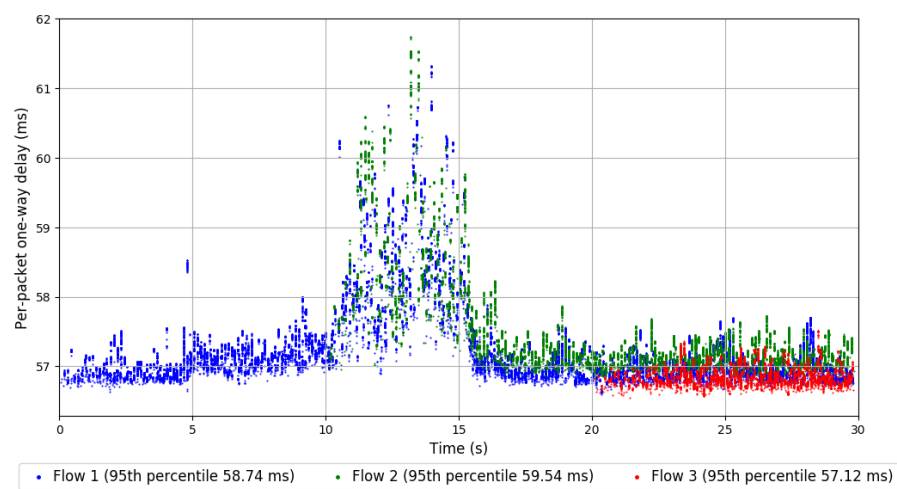
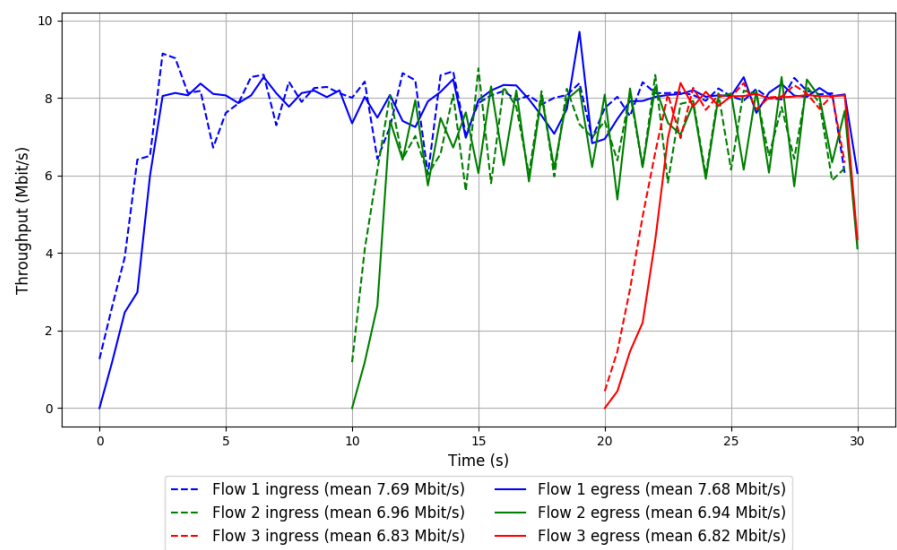


#### Run 4: Statistics of Sprout

Start at: 2018-12-01 06:37:14  
End at: 2018-12-01 06:37:44  
Local clock offset: -0.416 ms  
Remote clock offset: -0.097 ms

```
# Below is generated by plot.py at 2018-12-01 09:50:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.51 Mbit/s
95th percentile per-packet one-way delay: 58.997 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 7.68 Mbit/s
95th percentile per-packet one-way delay: 58.740 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 6.94 Mbit/s
95th percentile per-packet one-way delay: 59.543 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 6.82 Mbit/s
95th percentile per-packet one-way delay: 57.123 ms
Loss rate: 1.47%
```

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-12-01 07:13:56

End at: 2018-12-01 07:14:26

Local clock offset: 0.395 ms

Remote clock offset: 0.488 ms

# Below is generated by plot.py at 2018-12-01 09:50:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 15.05 Mbit/s

95th percentile per-packet one-way delay: 60.756 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 57.494 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 7.64 Mbit/s

95th percentile per-packet one-way delay: 57.815 ms

Loss rate: 0.63%

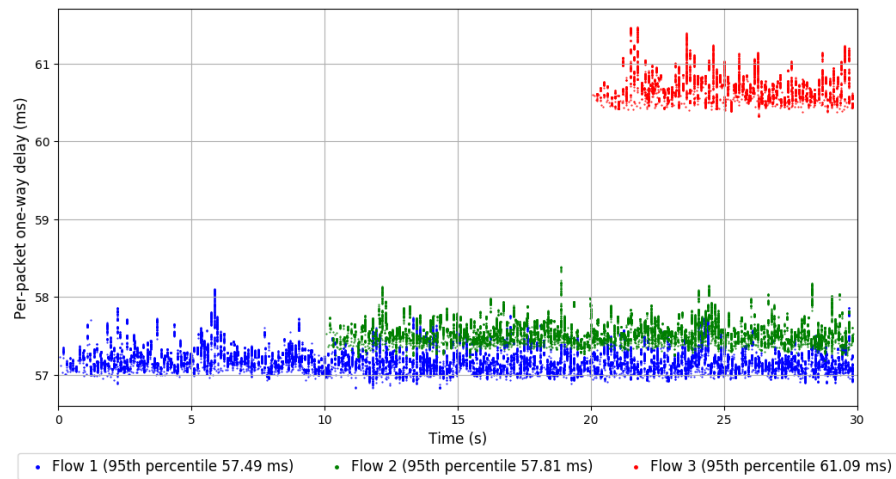
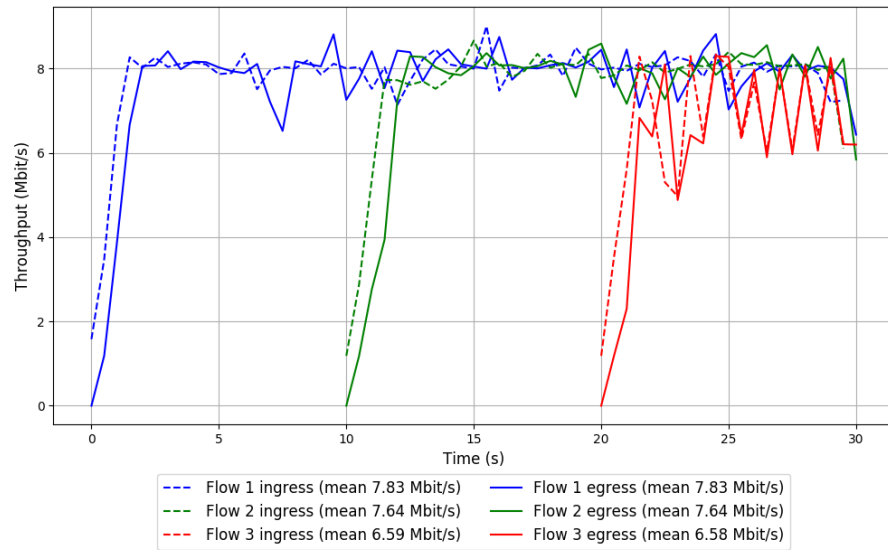
-- Flow 3:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 61.085 ms

Loss rate: 1.60%

## Run 5: Report of Sprout — Data Link

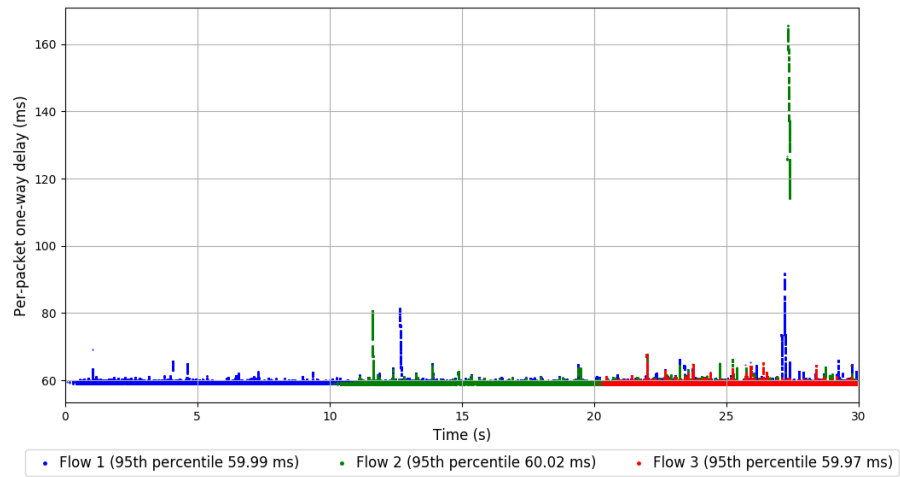
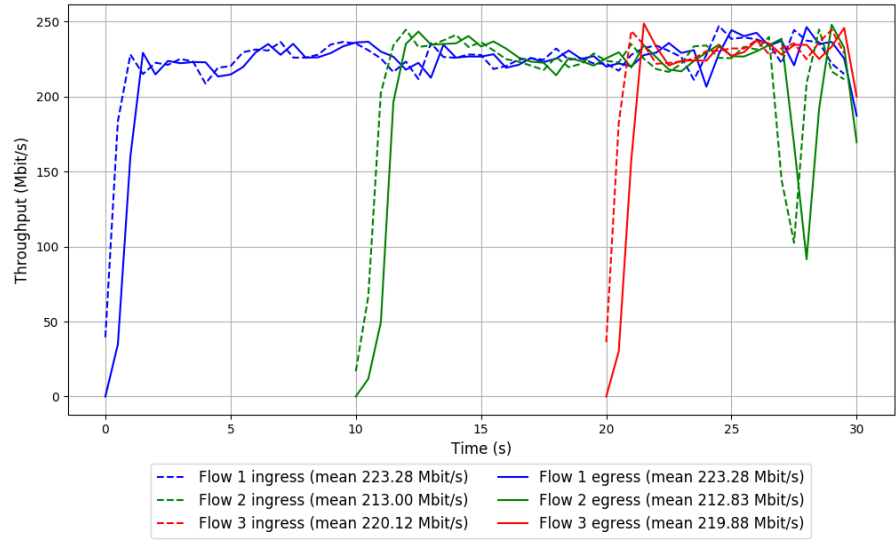


Run 1: Statistics of TaoVA-100x

Start at: 2018-12-01 04:38:11  
End at: 2018-12-01 04:38:41  
Local clock offset: 0.375 ms  
Remote clock offset: -1.445 ms

# Below is generated by plot.py at 2018-12-01 09:57:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 437.18 Mbit/s  
95th percentile per-packet one-way delay: 59.994 ms  
Loss rate: 0.63%  
-- Flow 1:  
Average throughput: 223.28 Mbit/s  
95th percentile per-packet one-way delay: 59.989 ms  
Loss rate: 0.40%  
-- Flow 2:  
Average throughput: 212.83 Mbit/s  
95th percentile per-packet one-way delay: 60.021 ms  
Loss rate: 0.64%  
-- Flow 3:  
Average throughput: 219.88 Mbit/s  
95th percentile per-packet one-way delay: 59.972 ms  
Loss rate: 1.30%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-12-01 05:14:06

End at: 2018-12-01 05:14:36

Local clock offset: 0.319 ms

Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2018-12-01 09:57:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 435.69 Mbit/s

95th percentile per-packet one-way delay: 61.223 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 223.79 Mbit/s

95th percentile per-packet one-way delay: 58.868 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 218.32 Mbit/s

95th percentile per-packet one-way delay: 59.521 ms

Loss rate: 0.64%

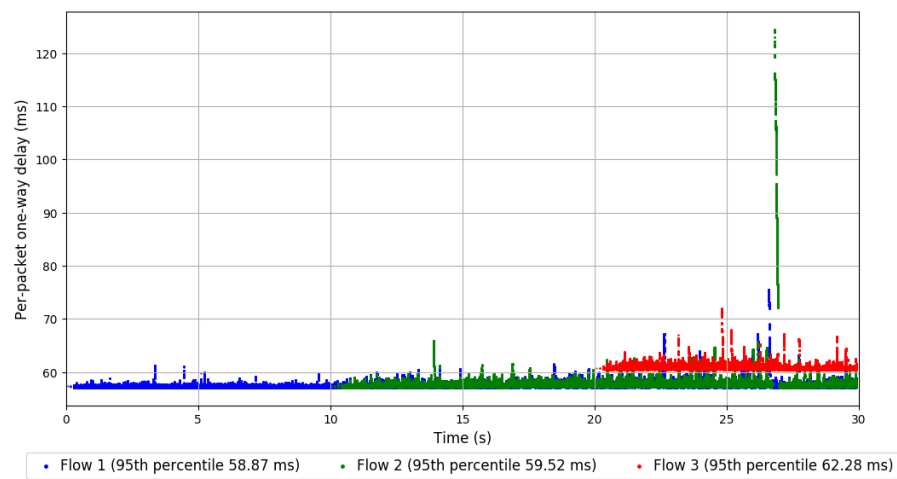
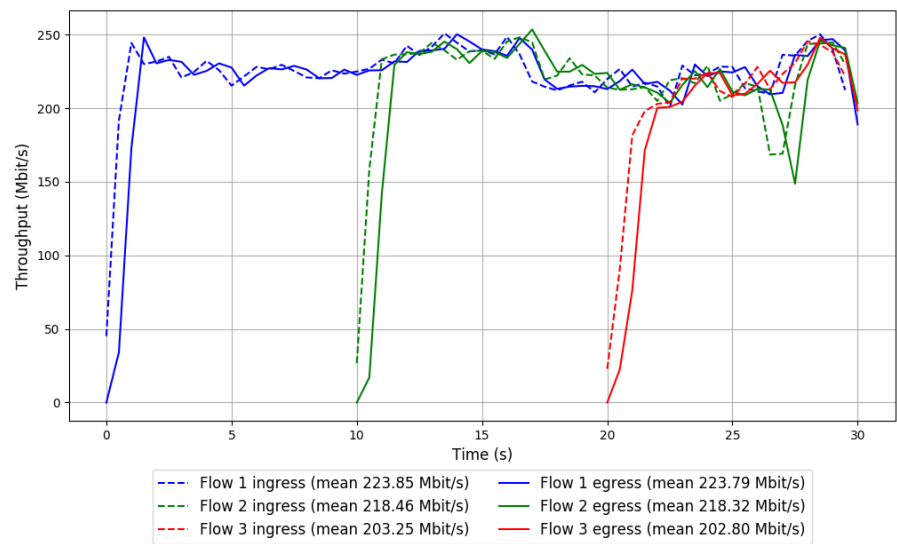
-- Flow 3:

Average throughput: 202.80 Mbit/s

95th percentile per-packet one-way delay: 62.280 ms

Loss rate: 1.38%

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



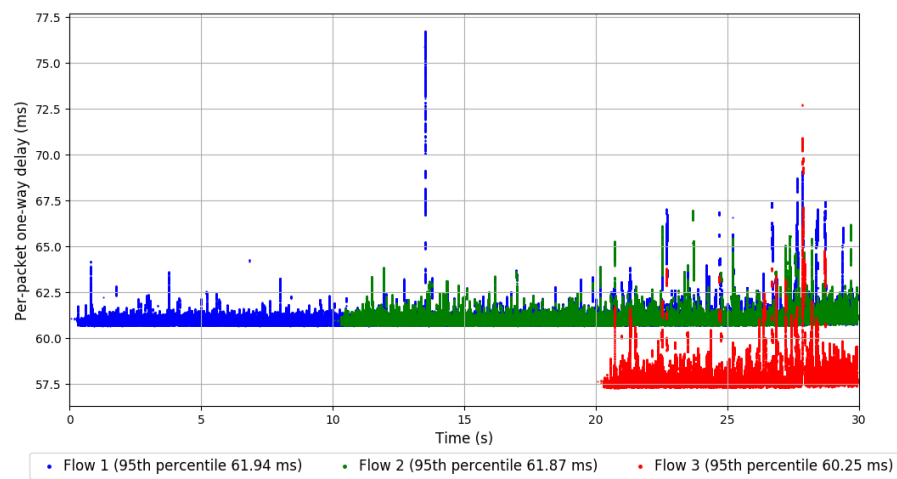
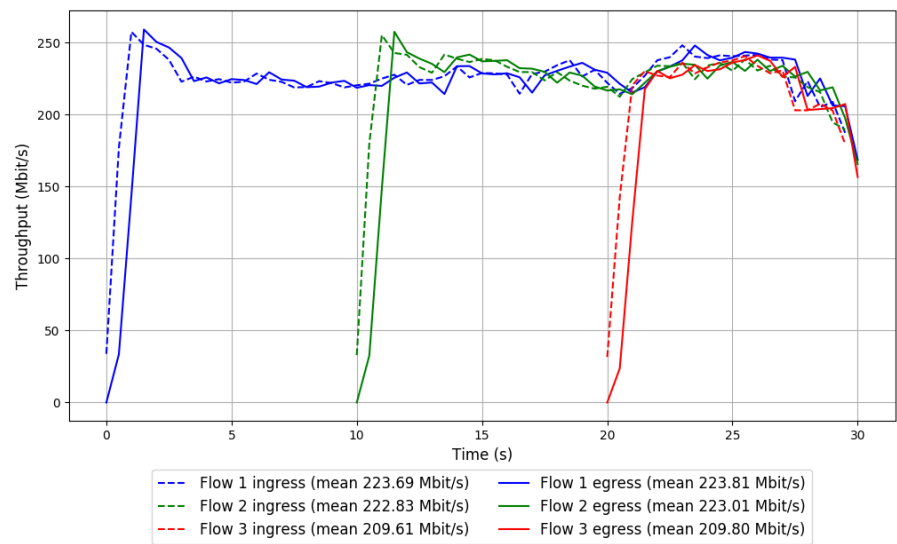


Run 3: Statistics of TaoVA-100x

Start at: 2018-12-01 05:50:12  
End at: 2018-12-01 05:50:42  
Local clock offset: 0.291 ms  
Remote clock offset: -0.169 ms

# Below is generated by plot.py at 2018-12-01 09:58:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 441.24 Mbit/s  
95th percentile per-packet one-way delay: 61.845 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 223.81 Mbit/s  
95th percentile per-packet one-way delay: 61.938 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 223.01 Mbit/s  
95th percentile per-packet one-way delay: 61.867 ms  
Loss rate: 0.51%  
-- Flow 3:  
Average throughput: 209.80 Mbit/s  
95th percentile per-packet one-way delay: 60.250 ms  
Loss rate: 1.07%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-12-01 06:26:09

End at: 2018-12-01 06:26:39

Local clock offset: -0.28 ms

Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2018-12-01 09:58:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 442.82 Mbit/s

95th percentile per-packet one-way delay: 60.694 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 224.91 Mbit/s

95th percentile per-packet one-way delay: 57.712 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 218.25 Mbit/s

95th percentile per-packet one-way delay: 61.300 ms

Loss rate: 0.66%

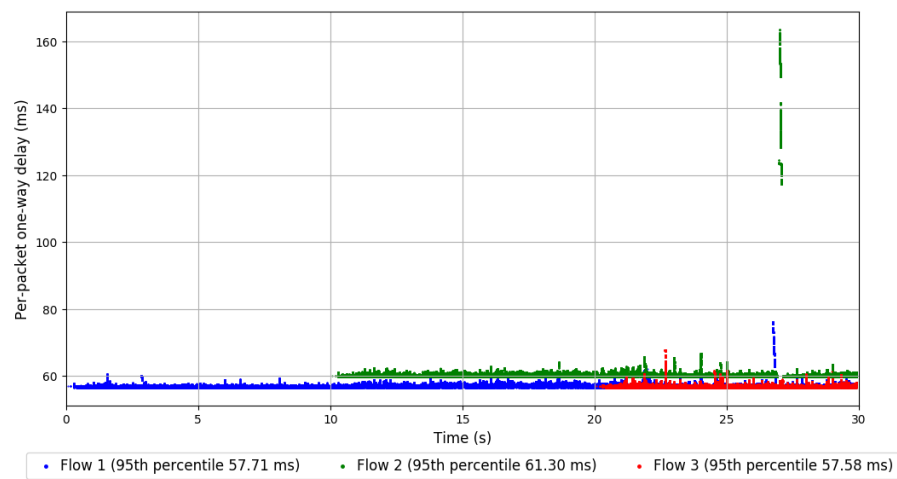
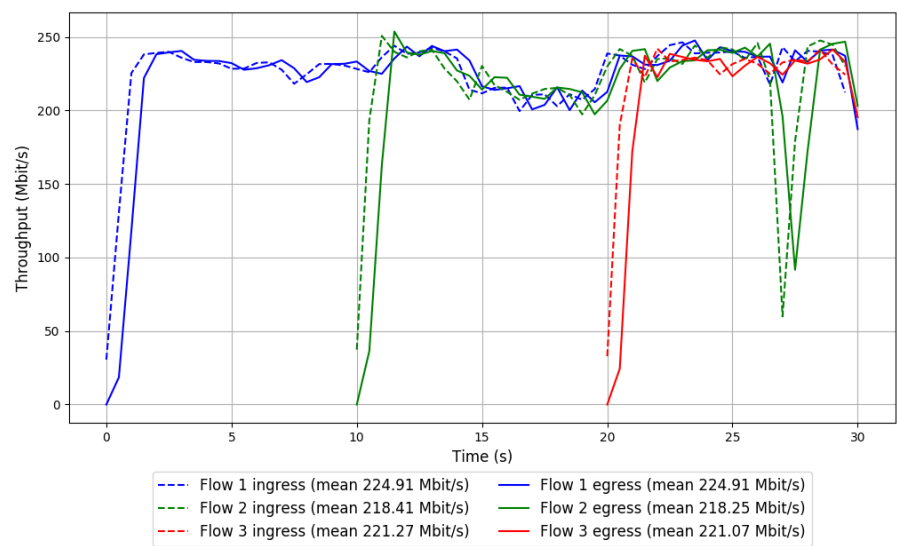
-- Flow 3:

Average throughput: 221.07 Mbit/s

95th percentile per-packet one-way delay: 57.580 ms

Loss rate: 1.24%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-12-01 07:02:58

End at: 2018-12-01 07:03:28

Local clock offset: 0.48 ms

Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2018-12-01 10:00:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 418.42 Mbit/s

95th percentile per-packet one-way delay: 58.908 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 211.39 Mbit/s

95th percentile per-packet one-way delay: 58.473 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 206.12 Mbit/s

95th percentile per-packet one-way delay: 59.180 ms

Loss rate: 0.63%

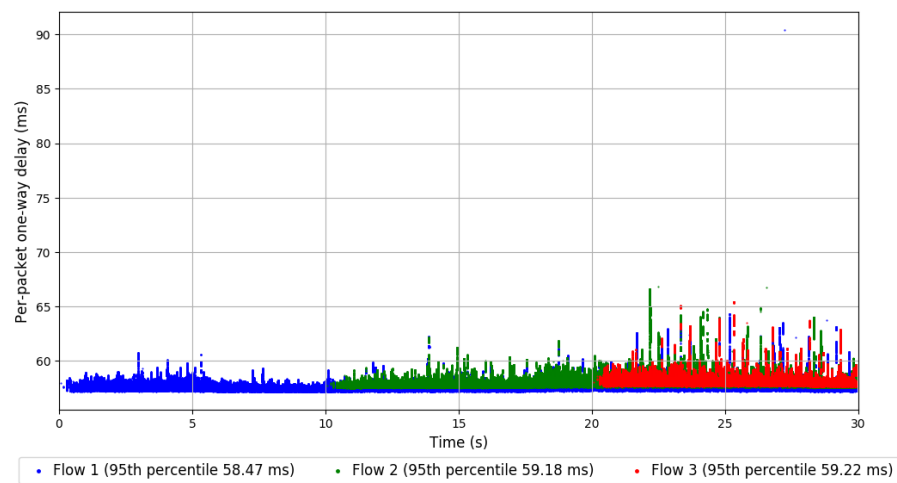
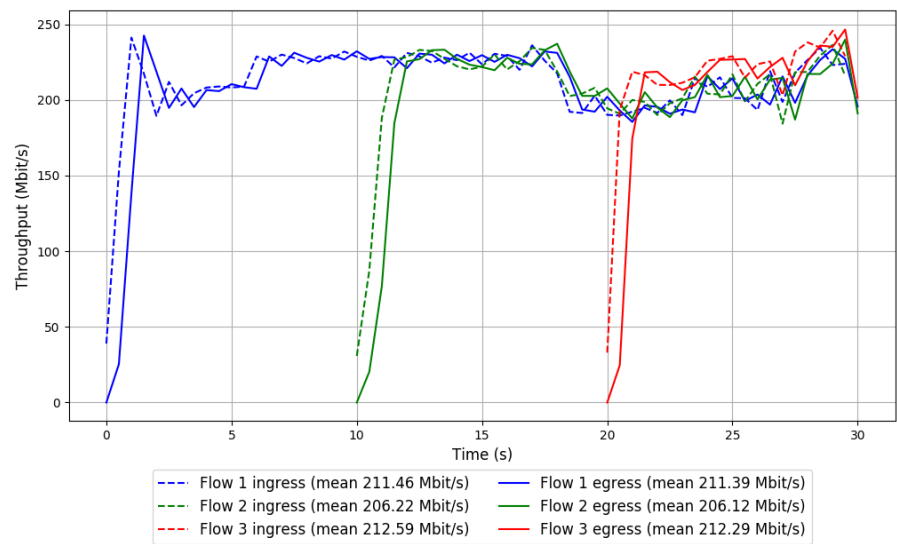
-- Flow 3:

Average throughput: 212.29 Mbit/s

95th percentile per-packet one-way delay: 59.219 ms

Loss rate: 1.29%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-12-01 04:27:14

End at: 2018-12-01 04:27:44

Local clock offset: -0.099 ms

Remote clock offset: 0.111 ms

# Below is generated by plot.py at 2018-12-01 10:03:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 684.36 Mbit/s

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

Loss rate: 0.42%

-- Flow 1:

Average throughput: 353.41 Mbit/s

95th percentile per-packet one-way delay: 58.014 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 274.75 Mbit/s

95th percentile per-packet one-way delay: 57.874 ms

Loss rate: 0.27%

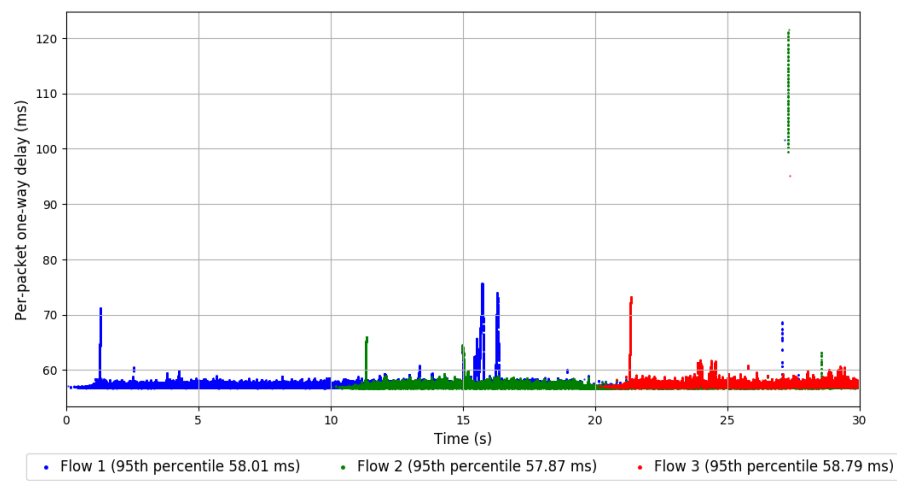
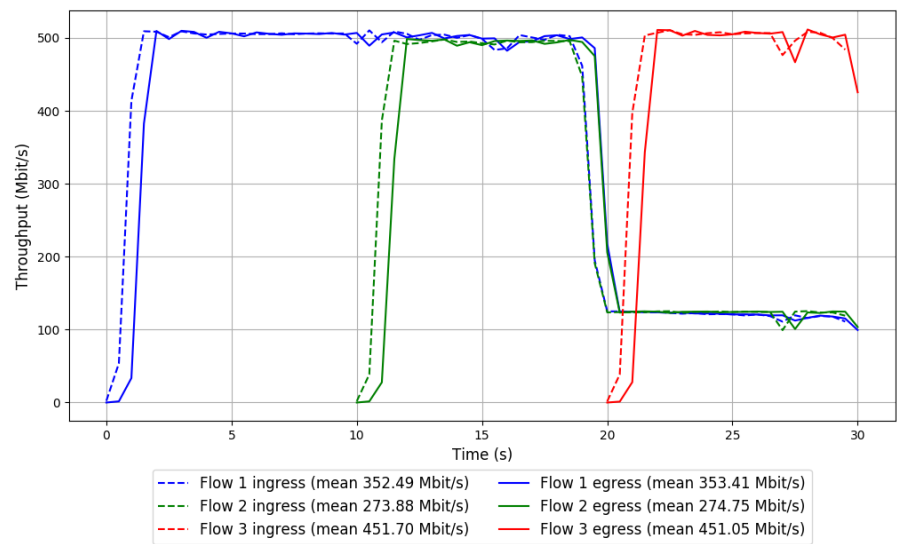
-- Flow 3:

Average throughput: 451.05 Mbit/s

95th percentile per-packet one-way delay: 58.787 ms

Loss rate: 1.30%

Run 1: Report of TCP Vegas — Data Link



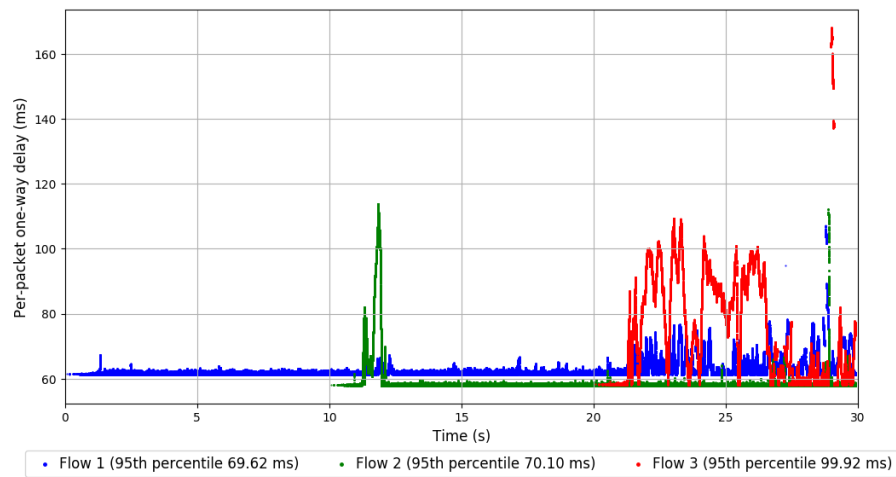
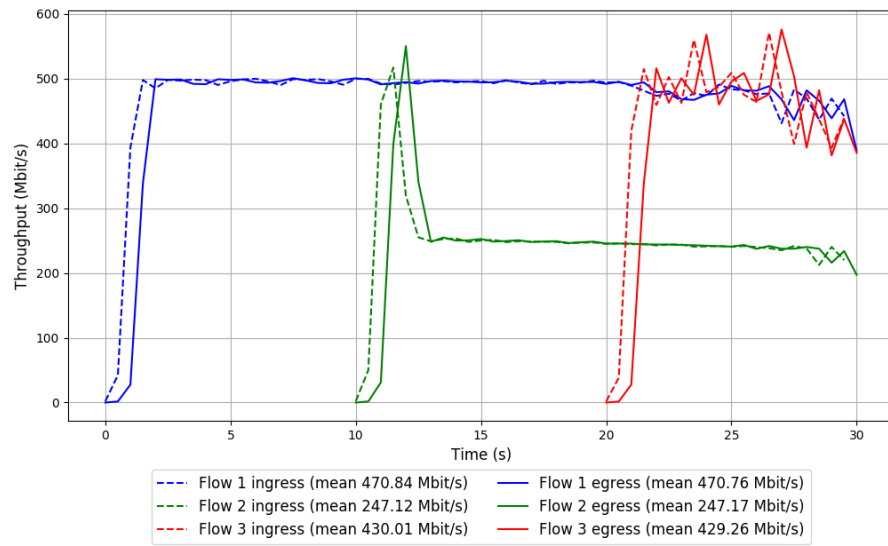


Run 2: Statistics of TCP Vegas

Start at: 2018-12-01 05:02:56  
End at: 2018-12-01 05:03:26  
Local clock offset: -0.237 ms  
Remote clock offset: -1.377 ms

# Below is generated by plot.py at 2018-12-01 10:07:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 776.64 Mbit/s  
95th percentile per-packet one-way delay: 90.399 ms  
Loss rate: 0.61%  
-- Flow 1:  
Average throughput: 470.76 Mbit/s  
95th percentile per-packet one-way delay: 69.616 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 247.17 Mbit/s  
95th percentile per-packet one-way delay: 70.100 ms  
Loss rate: 0.55%  
-- Flow 3:  
Average throughput: 429.26 Mbit/s  
95th percentile per-packet one-way delay: 99.917 ms  
Loss rate: 1.35%

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

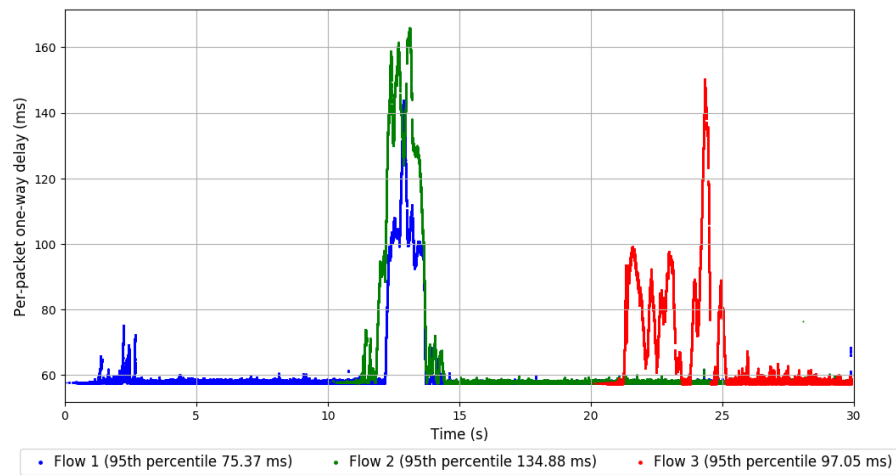
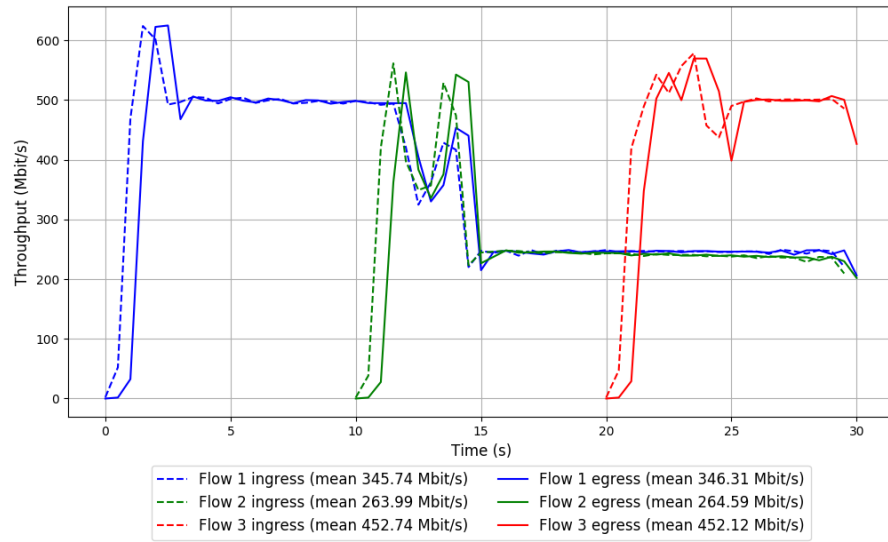


Run 3: Statistics of TCP Vegas

Start at: 2018-12-01 05:39:21  
End at: 2018-12-01 05:39:51  
Local clock offset: 0.296 ms  
Remote clock offset: -0.273 ms

# Below is generated by plot.py at 2018-12-01 10:07:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 671.27 Mbit/s  
95th percentile per-packet one-way delay: 99.317 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 346.31 Mbit/s  
95th percentile per-packet one-way delay: 75.370 ms  
Loss rate: 0.22%  
-- Flow 2:  
Average throughput: 264.59 Mbit/s  
95th percentile per-packet one-way delay: 134.885 ms  
Loss rate: 0.36%  
-- Flow 3:  
Average throughput: 452.12 Mbit/s  
95th percentile per-packet one-way delay: 97.047 ms  
Loss rate: 1.28%

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

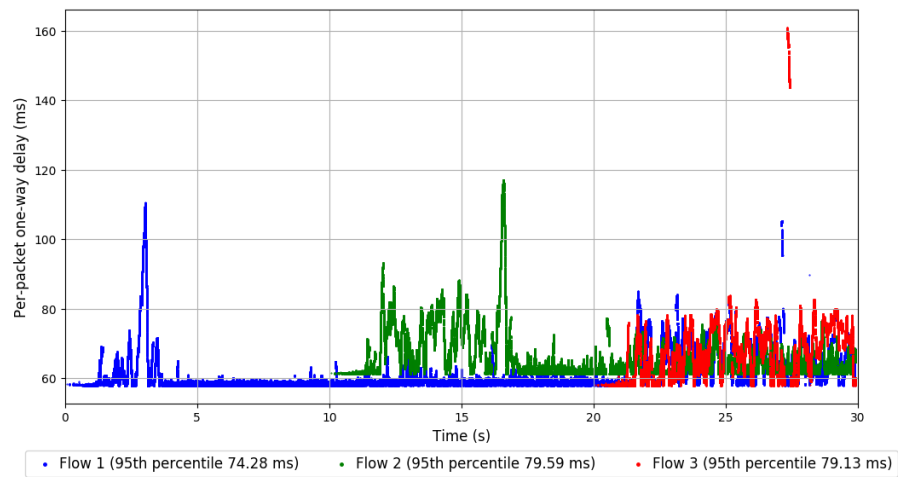
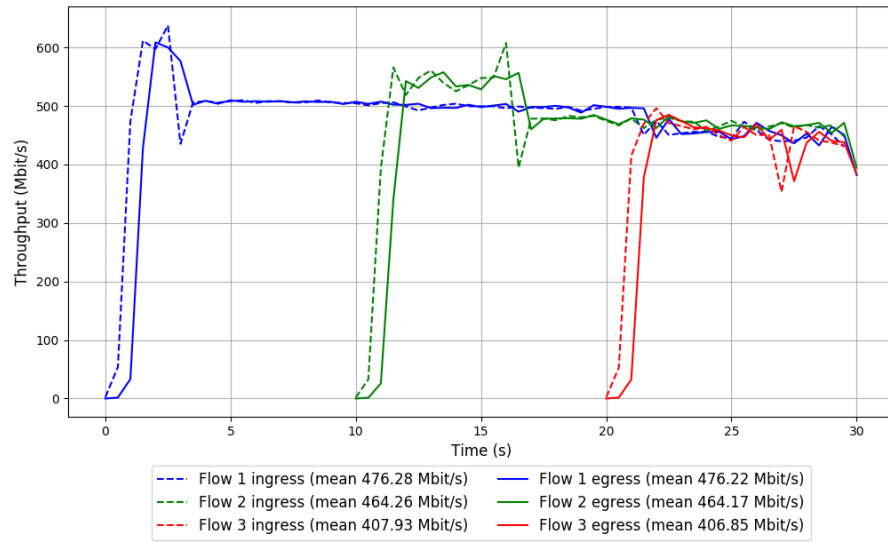


Run 4: Statistics of TCP Vegas

Start at: 2018-12-01 06:14:54  
End at: 2018-12-01 06:15:24  
Local clock offset: -0.095 ms  
Remote clock offset: -1.274 ms

# Below is generated by plot.py at 2018-12-01 10:18:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 919.18 Mbit/s  
95th percentile per-packet one-way delay: 77.722 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 476.22 Mbit/s  
95th percentile per-packet one-way delay: 74.276 ms  
Loss rate: 0.39%  
-- Flow 2:  
Average throughput: 464.17 Mbit/s  
95th percentile per-packet one-way delay: 79.590 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 406.85 Mbit/s  
95th percentile per-packet one-way delay: 79.134 ms  
Loss rate: 1.40%

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



Run 5: Statistics of TCP Vegas

Start at: 2018-12-01 06:51:55

End at: 2018-12-01 06:52:25

Local clock offset: -0.24 ms

Remote clock offset: 0.103 ms

# Below is generated by plot.py at 2018-12-01 10:18:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 819.58 Mbit/s

95th percentile per-packet one-way delay: 108.013 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 432.26 Mbit/s

95th percentile per-packet one-way delay: 106.101 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 447.75 Mbit/s

95th percentile per-packet one-way delay: 106.701 ms

Loss rate: 0.64%

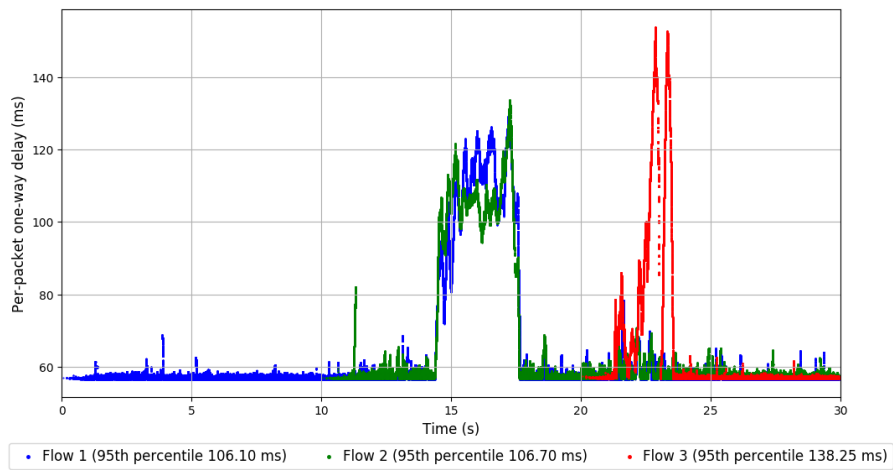
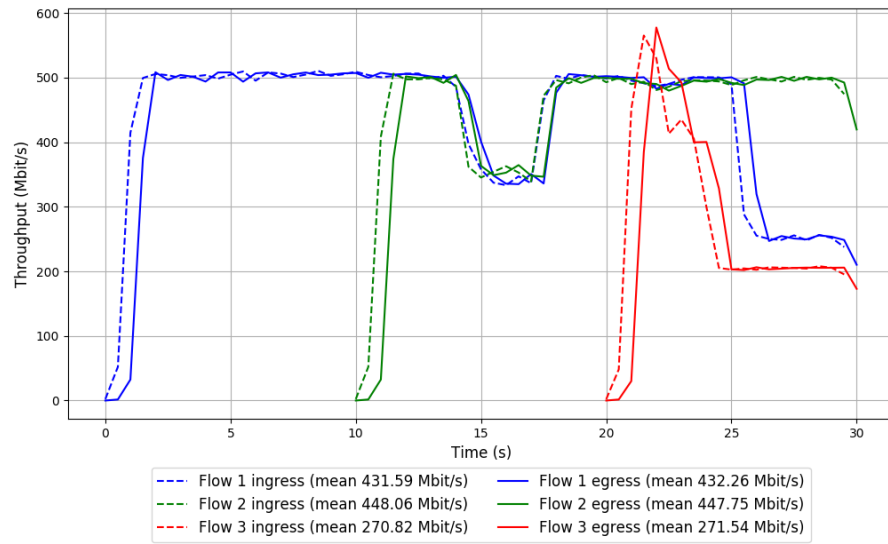
-- Flow 3:

Average throughput: 271.54 Mbit/s

95th percentile per-packet one-way delay: 138.249 ms

Loss rate: 0.88%

# Run 5: Report of TCP Vegas — Data Link





Run 1: Statistics of Verus

Start at: 2018-12-01 04:21:12

End at: 2018-12-01 04:21:42

Local clock offset: -0.325 ms

Remote clock offset: 1.319 ms

# Below is generated by plot.py at 2018-12-01 10:18:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 230.43 Mbit/s

95th percentile per-packet one-way delay: 212.683 ms

Loss rate: 4.29%

-- Flow 1:

Average throughput: 124.37 Mbit/s

95th percentile per-packet one-way delay: 106.801 ms

Loss rate: 1.61%

-- Flow 2:

Average throughput: 77.25 Mbit/s

95th percentile per-packet one-way delay: 70.458 ms

Loss rate: 0.41%

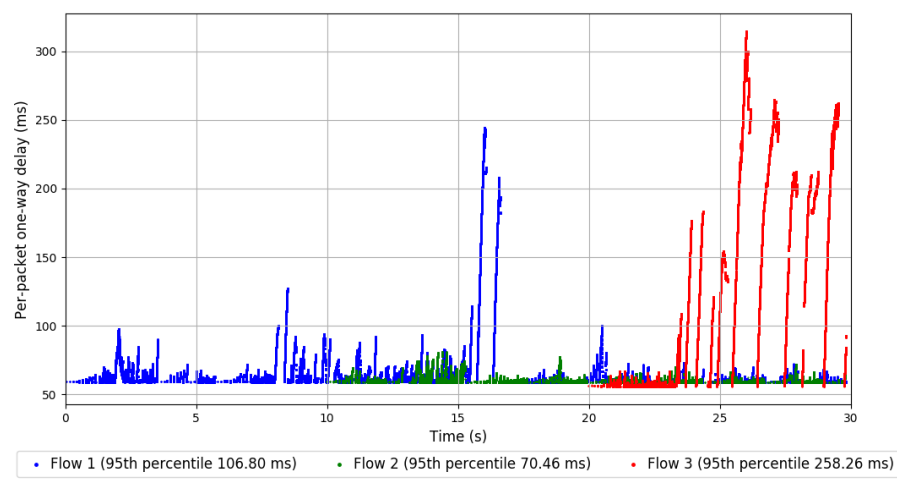
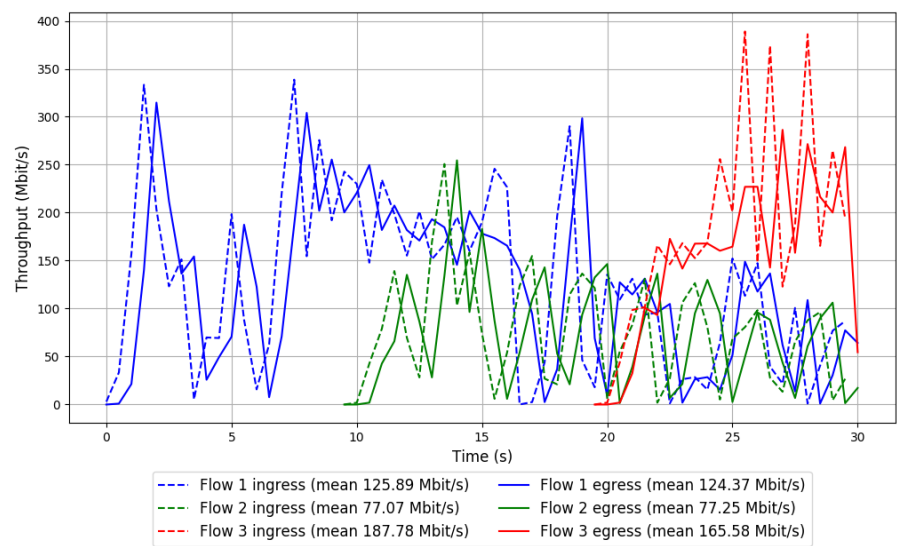
-- Flow 3:

Average throughput: 165.58 Mbit/s

95th percentile per-packet one-way delay: 258.256 ms

Loss rate: 12.87%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-12-01 04:56:31

End at: 2018-12-01 04:57:01

Local clock offset: 0.233 ms

Remote clock offset: 0.679 ms

# Below is generated by plot.py at 2018-12-01 10:18:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 293.20 Mbit/s

95th percentile per-packet one-way delay: 116.760 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 167.08 Mbit/s

95th percentile per-packet one-way delay: 104.244 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 137.45 Mbit/s

95th percentile per-packet one-way delay: 127.011 ms

Loss rate: 1.49%

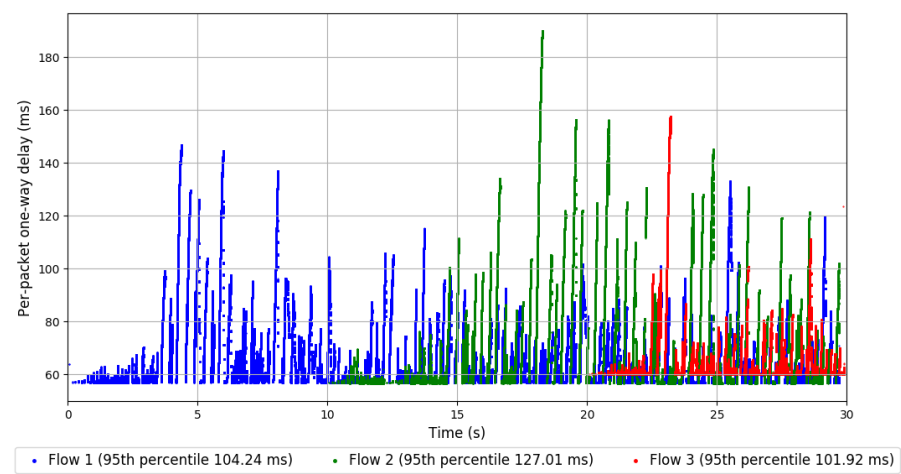
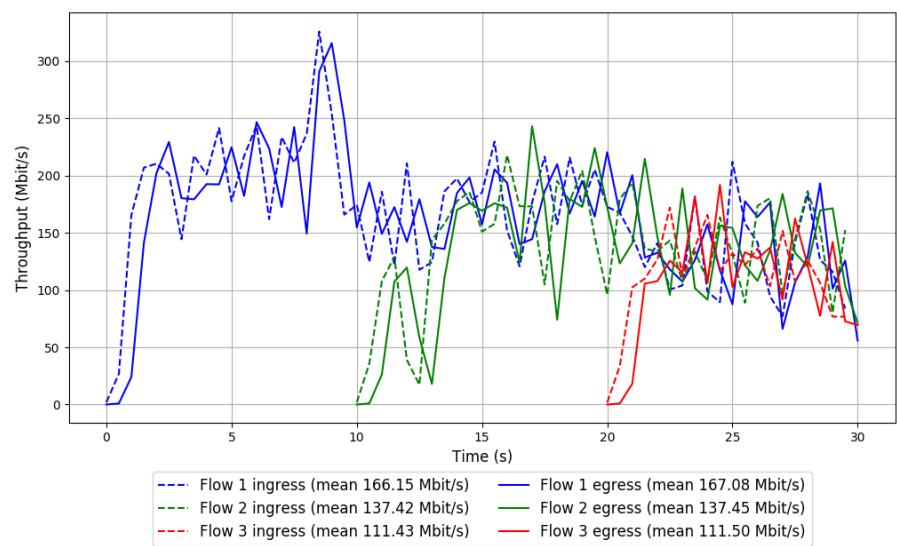
-- Flow 3:

Average throughput: 111.50 Mbit/s

95th percentile per-packet one-way delay: 101.918 ms

Loss rate: 1.17%

Run 2: Report of Verus — Data Link

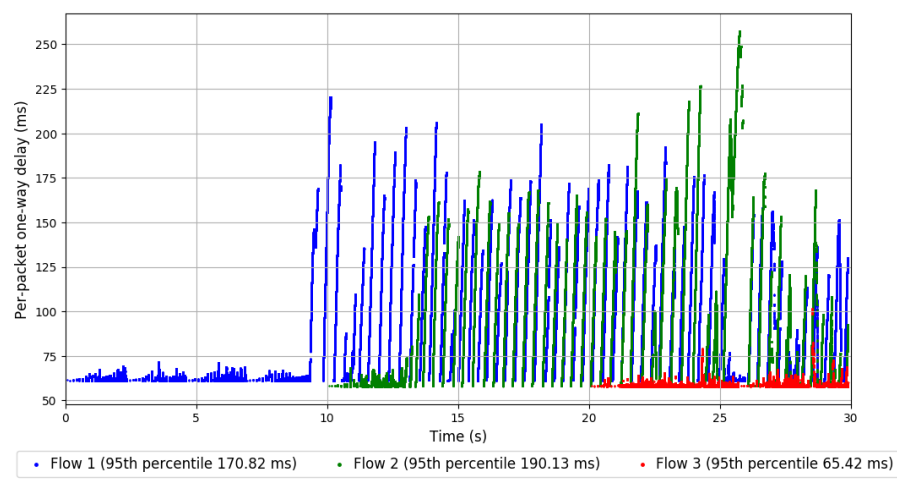
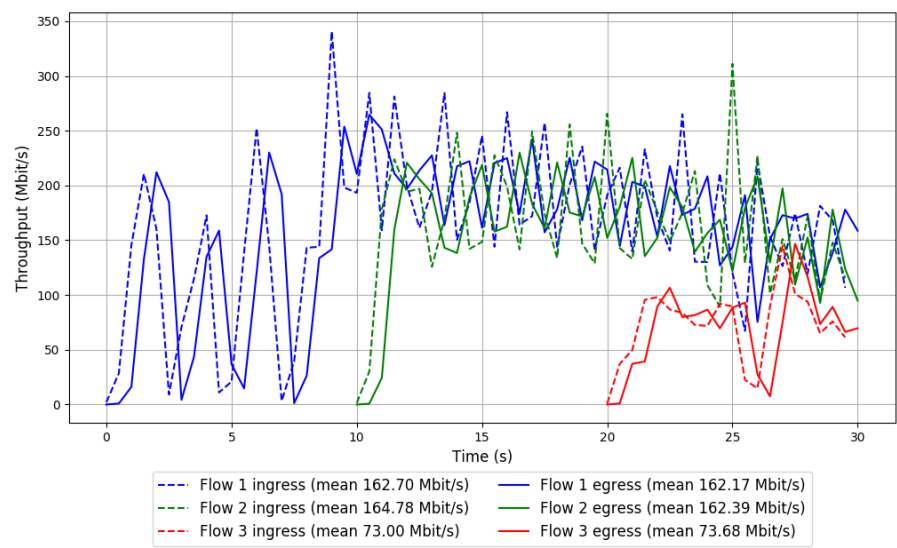


Run 3: Statistics of Verus

Start at: 2018-12-01 05:32:41  
End at: 2018-12-01 05:33:11  
Local clock offset: -0.513 ms  
Remote clock offset: -1.522 ms

# Below is generated by plot.py at 2018-12-01 10:18:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 294.21 Mbit/s  
95th percentile per-packet one-way delay: 173.027 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 162.17 Mbit/s  
95th percentile per-packet one-way delay: 170.819 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 162.39 Mbit/s  
95th percentile per-packet one-way delay: 190.130 ms  
Loss rate: 1.49%  
-- Flow 3:  
Average throughput: 73.68 Mbit/s  
95th percentile per-packet one-way delay: 65.423 ms  
Loss rate: 0.19%

Run 3: Report of Verus — Data Link

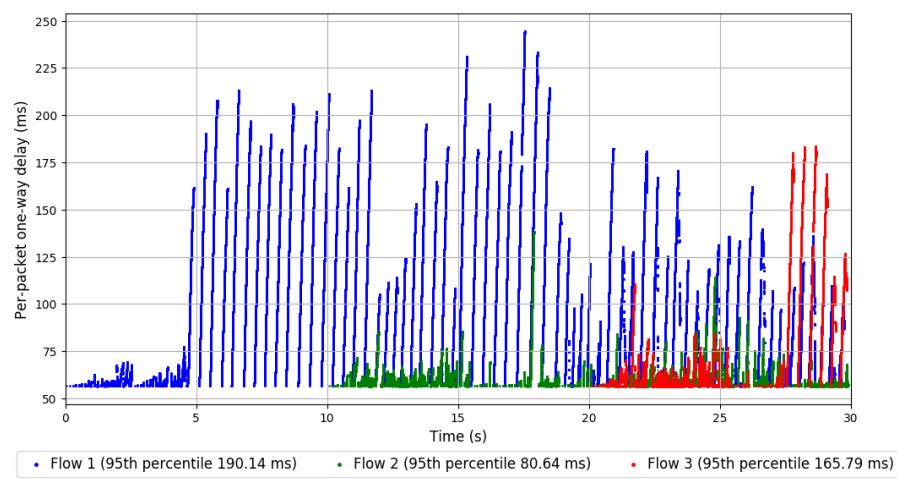
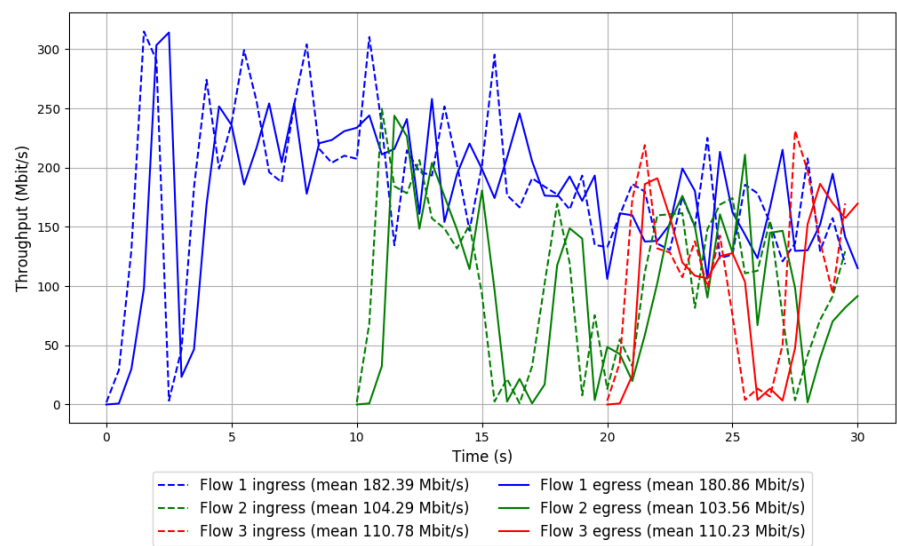


Run 4: Statistics of Verus

Start at: 2018-12-01 06:08:34  
End at: 2018-12-01 06:09:04  
Local clock offset: -0.474 ms  
Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2018-12-01 10:18:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 284.97 Mbit/s  
95th percentile per-packet one-way delay: 181.406 ms  
Loss rate: 1.37%  
-- Flow 1:  
Average throughput: 180.86 Mbit/s  
95th percentile per-packet one-way delay: 190.142 ms  
Loss rate: 1.68%  
-- Flow 2:  
Average throughput: 103.56 Mbit/s  
95th percentile per-packet one-way delay: 80.640 ms  
Loss rate: 1.28%  
-- Flow 3:  
Average throughput: 110.23 Mbit/s  
95th percentile per-packet one-way delay: 165.790 ms  
Loss rate: 0.00%

Run 4: Report of Verus — Data Link



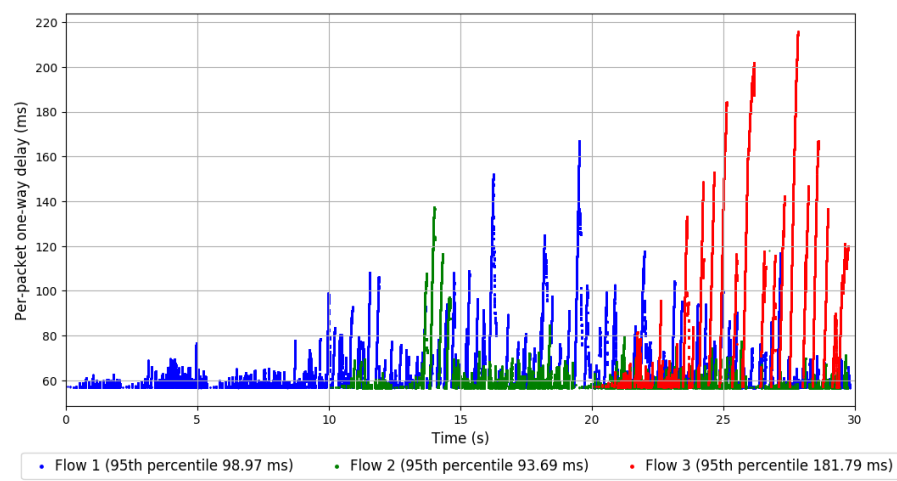
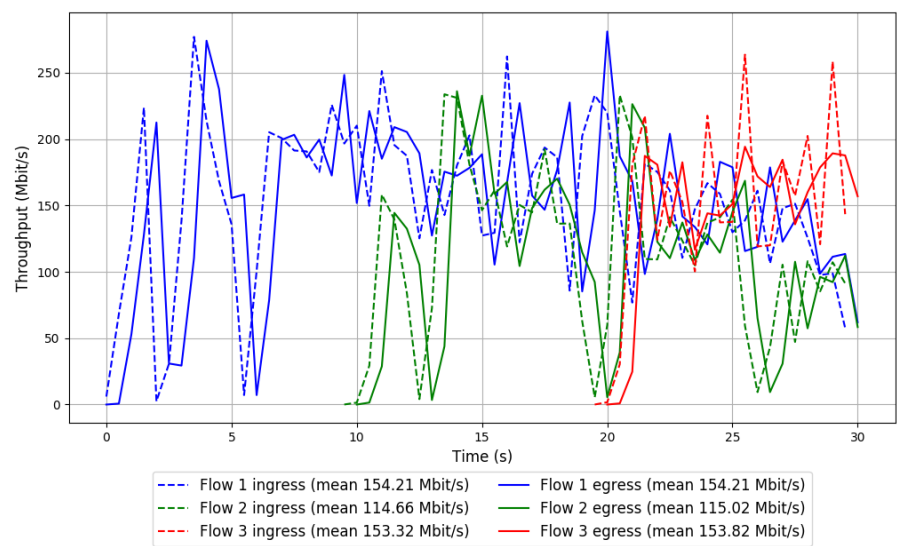


Run 5: Statistics of Verus

Start at: 2018-12-01 06:45:19  
End at: 2018-12-01 06:45:49  
Local clock offset: -0.259 ms  
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2018-12-01 10:18:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 280.44 Mbit/s  
95th percentile per-packet one-way delay: 122.205 ms  
Loss rate: 0.54%  
-- Flow 1:  
Average throughput: 154.21 Mbit/s  
95th percentile per-packet one-way delay: 98.969 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 115.02 Mbit/s  
95th percentile per-packet one-way delay: 93.686 ms  
Loss rate: 0.72%  
-- Flow 3:  
Average throughput: 153.82 Mbit/s  
95th percentile per-packet one-way delay: 181.787 ms  
Loss rate: 1.88%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-12-01 04:42:36

End at: 2018-12-01 04:43:06

Local clock offset: 0.243 ms

Remote clock offset: 1.249 ms

# Below is generated by plot.py at 2018-12-01 10:18:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 497.19 Mbit/s

95th percentile per-packet one-way delay: 86.792 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 333.73 Mbit/s

95th percentile per-packet one-way delay: 111.149 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 204.69 Mbit/s

95th percentile per-packet one-way delay: 78.704 ms

Loss rate: 0.42%

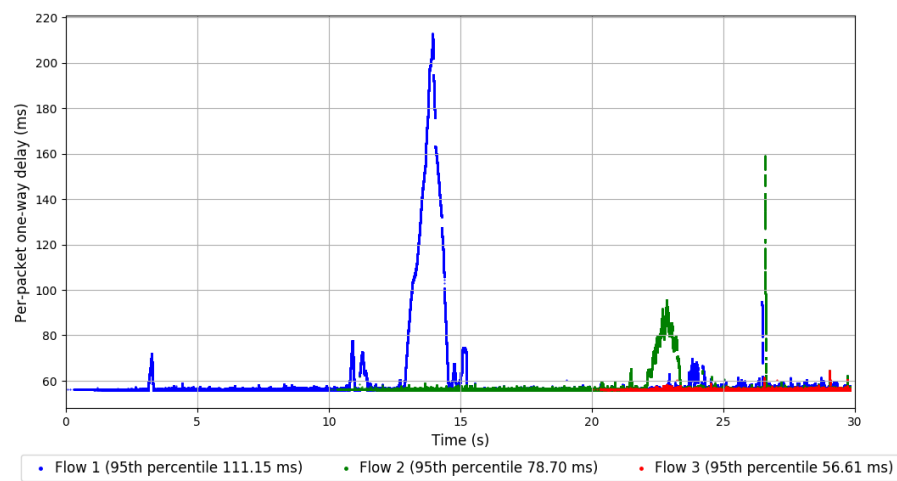
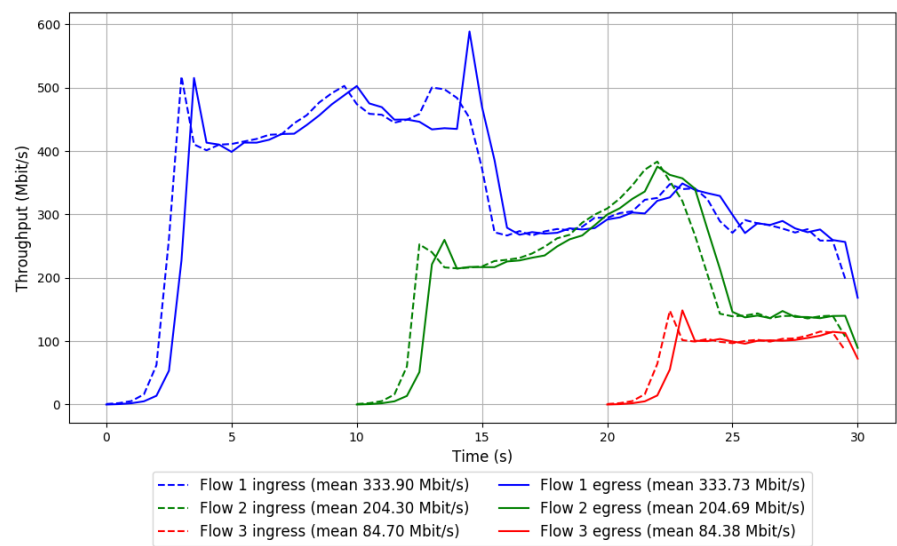
-- Flow 3:

Average throughput: 84.38 Mbit/s

95th percentile per-packet one-way delay: 56.612 ms

Loss rate: 1.55%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-12-01 05:18:38

End at: 2018-12-01 05:19:08

Local clock offset: -0.2 ms

Remote clock offset: -0.17 ms

# Below is generated by plot.py at 2018-12-01 10:19:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 507.43 Mbit/s

95th percentile per-packet one-way delay: 69.534 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 313.18 Mbit/s

95th percentile per-packet one-way delay: 60.152 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 268.67 Mbit/s

95th percentile per-packet one-way delay: 92.243 ms

Loss rate: 0.41%

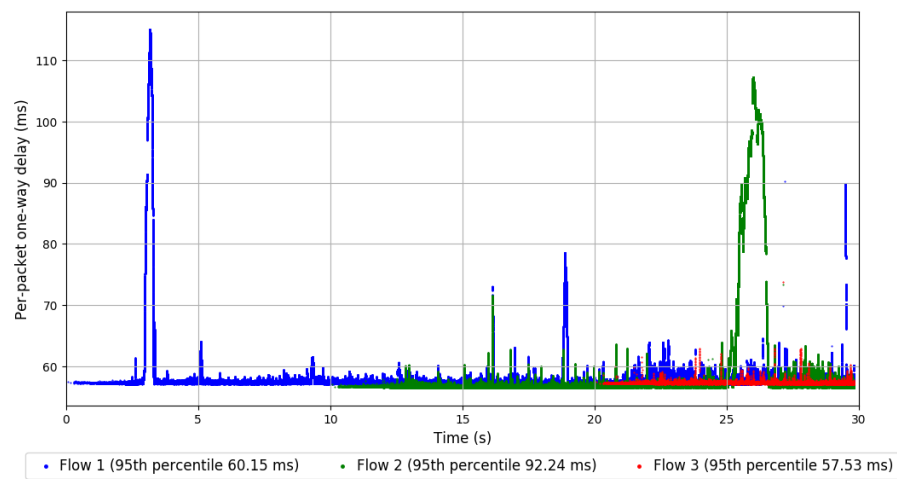
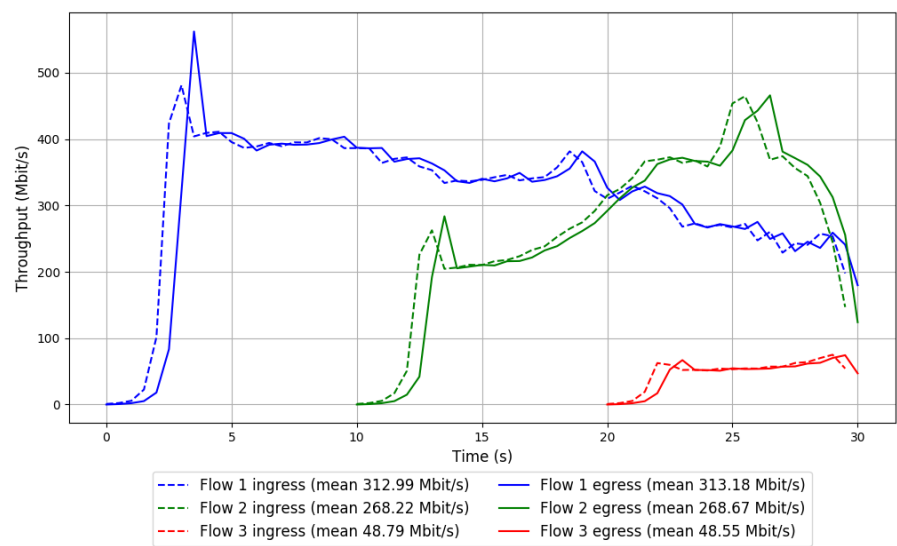
-- Flow 3:

Average throughput: 48.55 Mbit/s

95th percentile per-packet one-way delay: 57.535 ms

Loss rate: 1.67%

Run 2: Report of PCC-Vivace — Data Link

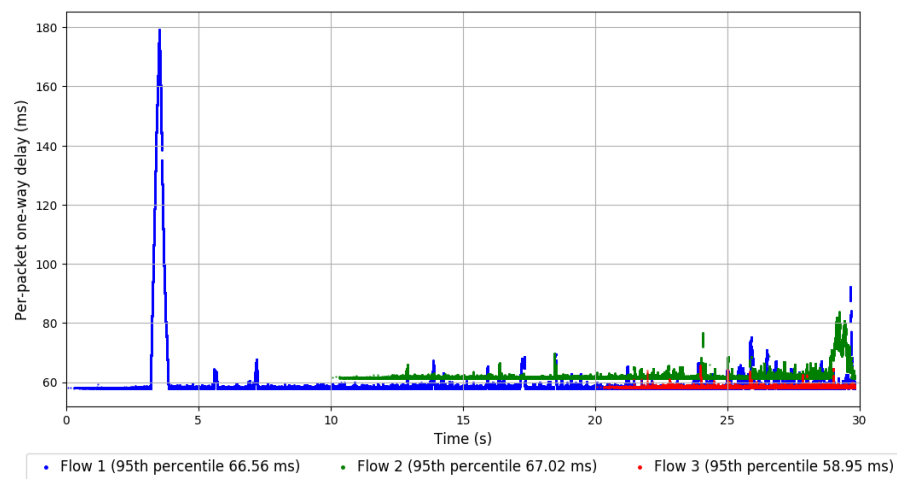
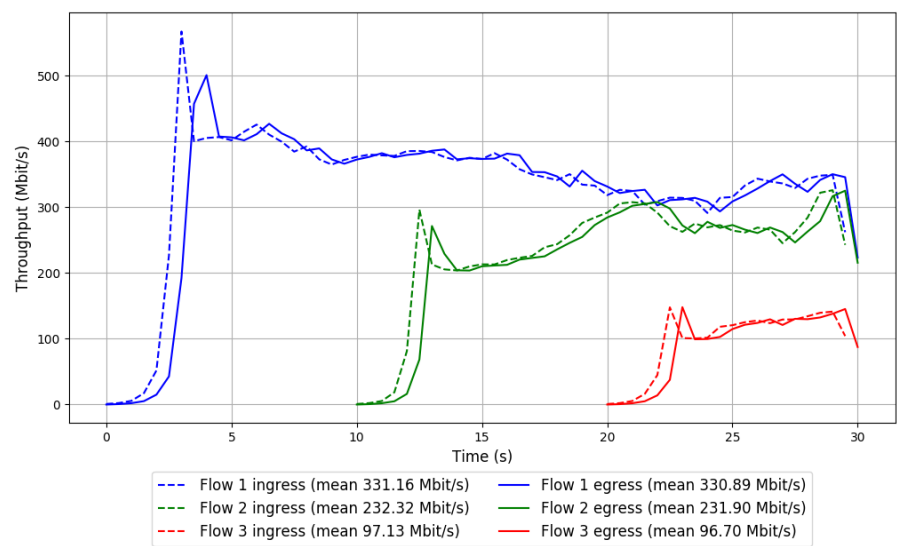


Run 3: Statistics of PCC-Vivace

Start at: 2018-12-01 05:54:48  
End at: 2018-12-01 05:55:18  
Local clock offset: -0.511 ms  
Remote clock offset: -1.375 ms

# Below is generated by plot.py at 2018-12-01 10:20:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 516.45 Mbit/s  
95th percentile per-packet one-way delay: 66.138 ms  
Loss rate: 0.63%  
-- Flow 1:  
Average throughput: 330.89 Mbit/s  
95th percentile per-packet one-way delay: 66.560 ms  
Loss rate: 0.46%  
-- Flow 2:  
Average throughput: 231.90 Mbit/s  
95th percentile per-packet one-way delay: 67.020 ms  
Loss rate: 0.77%  
-- Flow 3:  
Average throughput: 96.70 Mbit/s  
95th percentile per-packet one-way delay: 58.951 ms  
Loss rate: 1.61%

Run 3: Report of PCC-Vivace — Data Link





Run 4: Statistics of PCC-Vivace

Start at: 2018-12-01 06:30:51

End at: 2018-12-01 06:31:21

Local clock offset: 0.305 ms

Remote clock offset: 0.553 ms

# Below is generated by plot.py at 2018-12-01 10:20:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 530.60 Mbit/s

95th percentile per-packet one-way delay: 60.993 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 321.98 Mbit/s

95th percentile per-packet one-way delay: 58.664 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 240.89 Mbit/s

95th percentile per-packet one-way delay: 59.992 ms

Loss rate: 0.75%

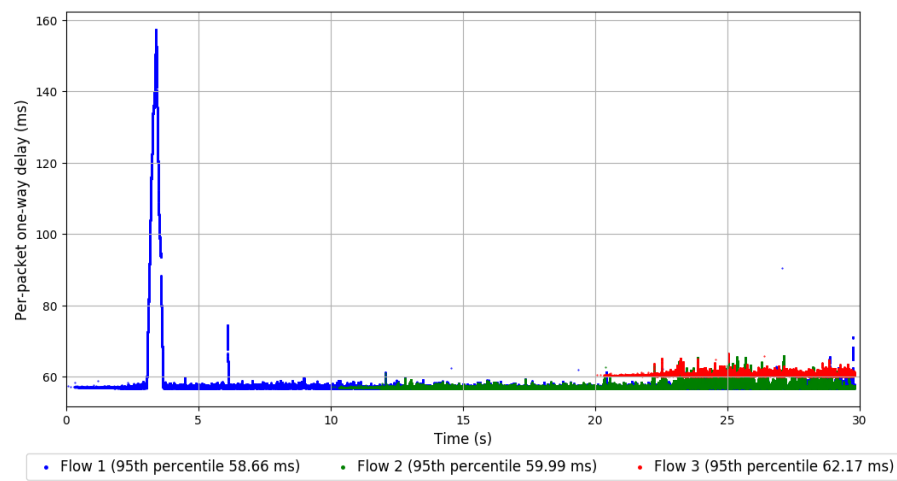
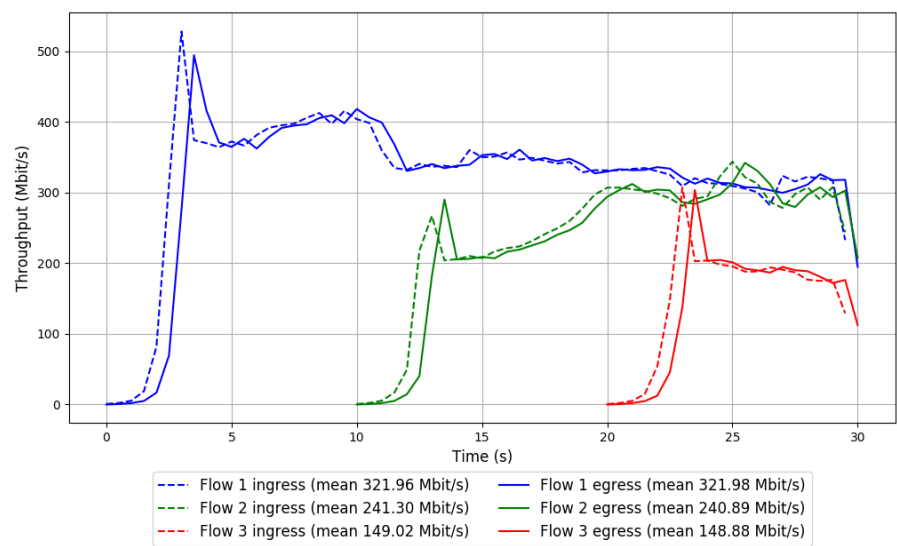
-- Flow 3:

Average throughput: 148.88 Mbit/s

95th percentile per-packet one-way delay: 62.173 ms

Loss rate: 1.30%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-12-01 07:07:27

End at: 2018-12-01 07:07:57

Local clock offset: -0.397 ms

Remote clock offset: 0.569 ms

# Below is generated by plot.py at 2018-12-01 10:21:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 505.92 Mbit/s

95th percentile per-packet one-way delay: 73.477 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 328.01 Mbit/s

95th percentile per-packet one-way delay: 128.102 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 256.56 Mbit/s

95th percentile per-packet one-way delay: 61.477 ms

Loss rate: 0.62%

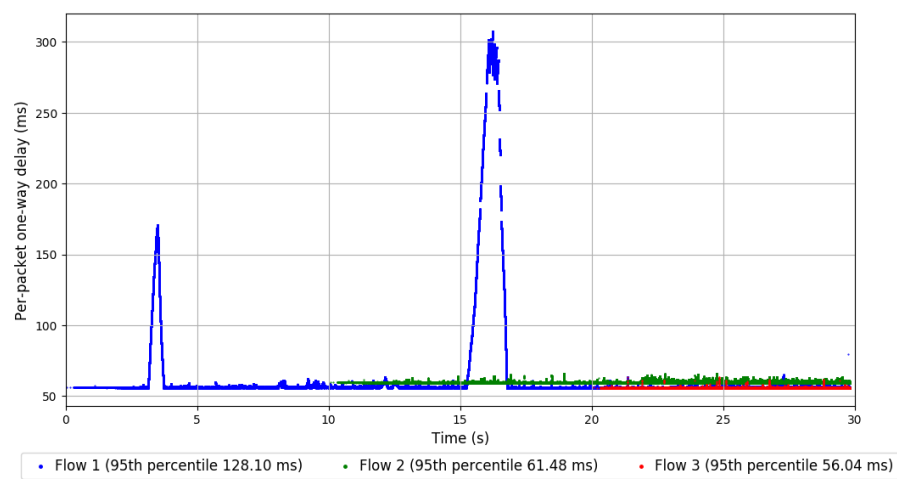
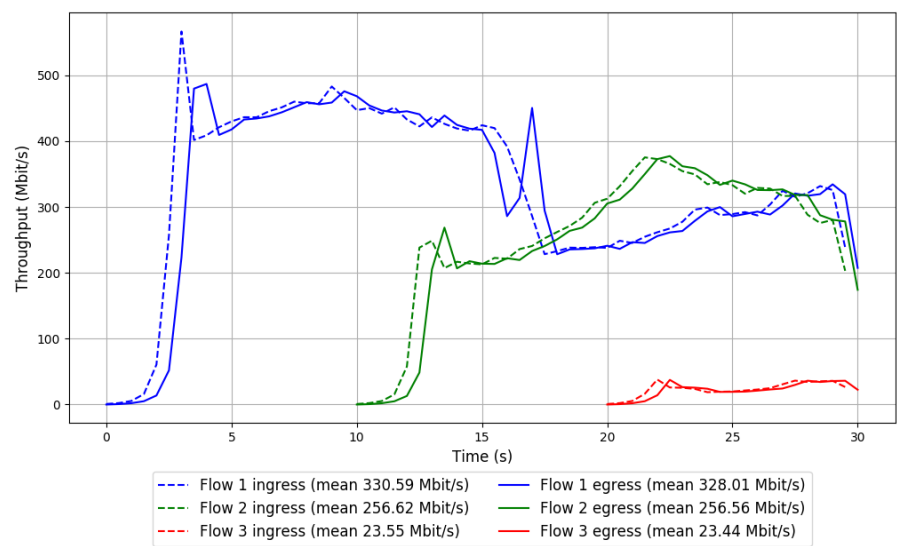
-- Flow 3:

Average throughput: 23.44 Mbit/s

95th percentile per-packet one-way delay: 56.043 ms

Loss rate: 1.66%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-12-01 04:29:15

End at: 2018-12-01 04:29:45

Local clock offset: 0.141 ms

Remote clock offset: 0.108 ms

# Below is generated by plot.py at 2018-12-01 10:21:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.01 Mbit/s

95th percentile per-packet one-way delay: 60.964 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 60.913 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 1.14 Mbit/s

95th percentile per-packet one-way delay: 57.255 ms

Loss rate: 0.32%

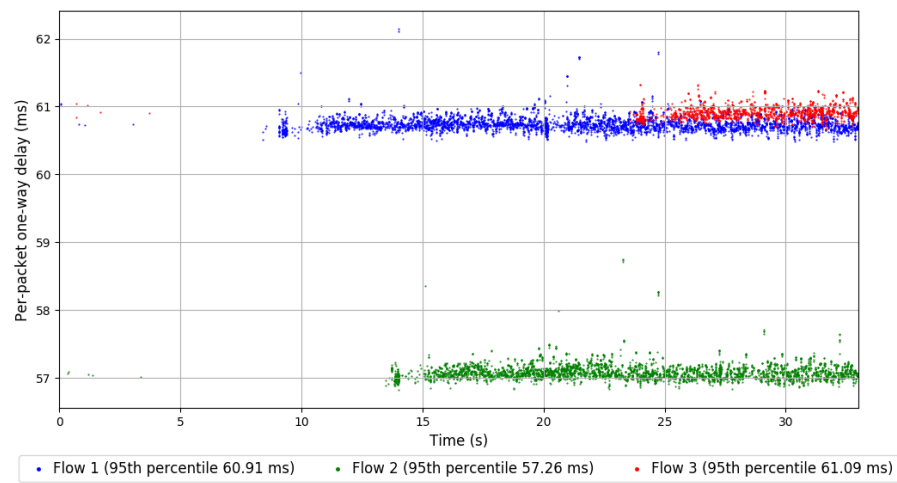
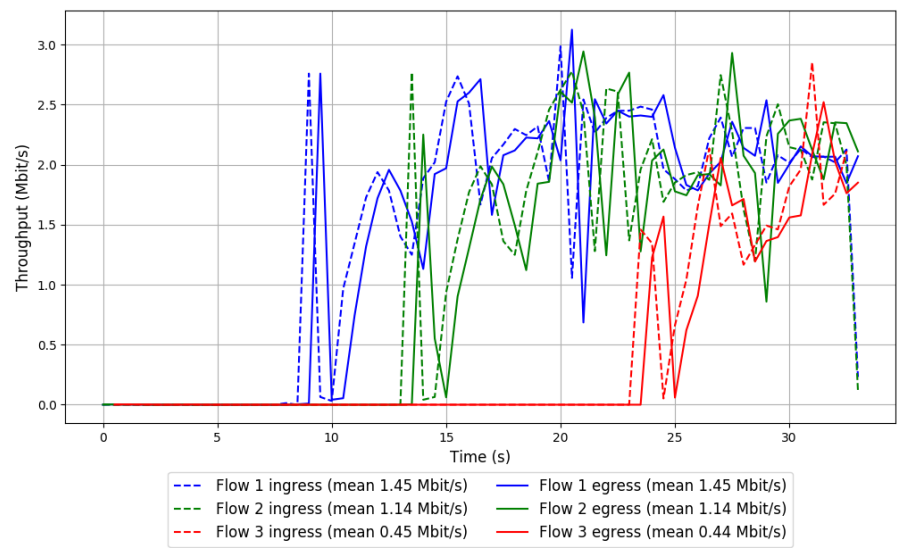
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 61.093 ms

Loss rate: 1.37%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-12-01 05:05:06

End at: 2018-12-01 05:05:36

Local clock offset: -0.045 ms

Remote clock offset: -0.29 ms

# Below is generated by plot.py at 2018-12-01 10:21:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.44 Mbit/s

95th percentile per-packet one-way delay: 57.725 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 57.601 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 1.14 Mbit/s

95th percentile per-packet one-way delay: 57.816 ms

Loss rate: 0.62%

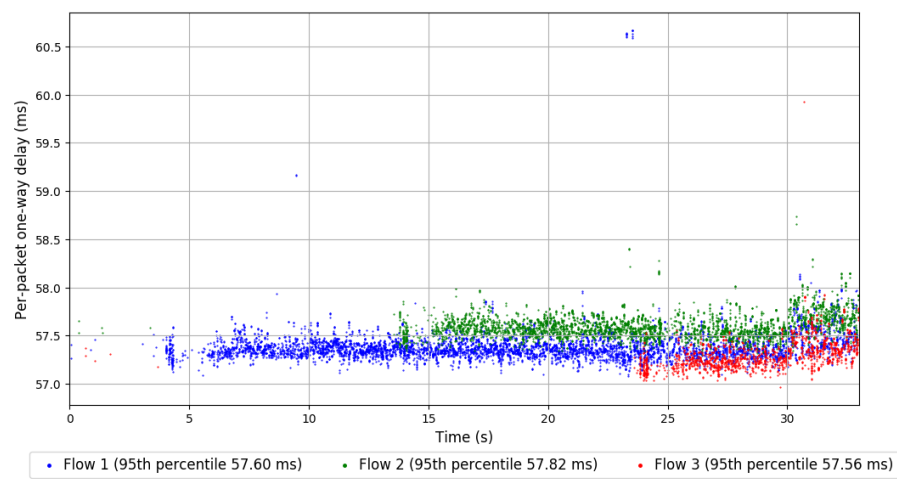
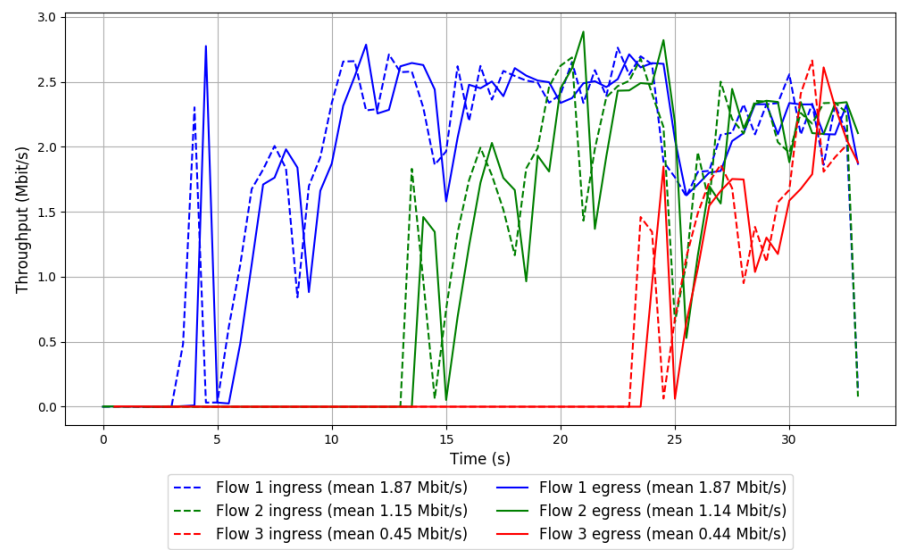
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 57.562 ms

Loss rate: 0.92%

Run 2: Report of WebRTC media — Data Link



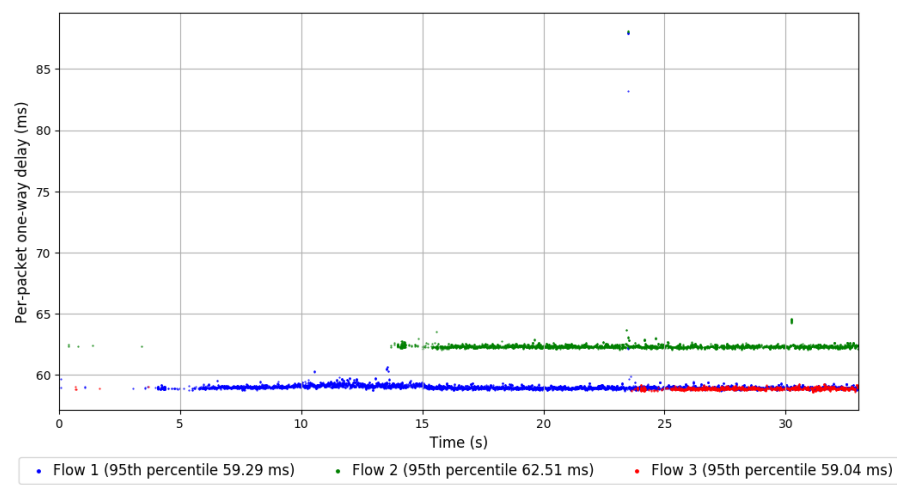
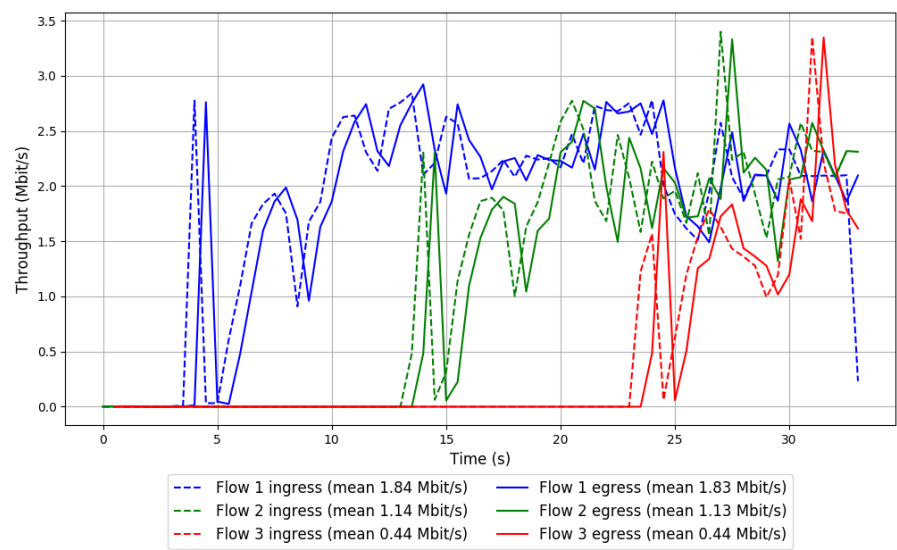


Run 3: Statistics of WebRTC media

Start at: 2018-12-01 05:41:09  
End at: 2018-12-01 05:41:39  
Local clock offset: 0.264 ms  
Remote clock offset: -1.517 ms

# Below is generated by plot.py at 2018-12-01 10:21:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.39 Mbit/s  
95th percentile per-packet one-way delay: 62.423 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 1.83 Mbit/s  
95th percentile per-packet one-way delay: 59.286 ms  
Loss rate: 0.57%  
-- Flow 2:  
Average throughput: 1.13 Mbit/s  
95th percentile per-packet one-way delay: 62.510 ms  
Loss rate: 0.31%  
-- Flow 3:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 59.044 ms  
Loss rate: 0.95%

Run 3: Report of WebRTC media — Data Link

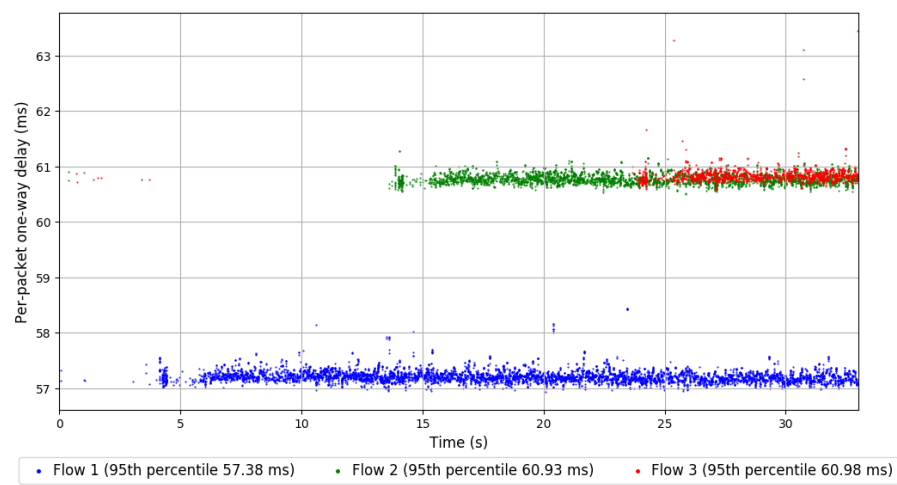
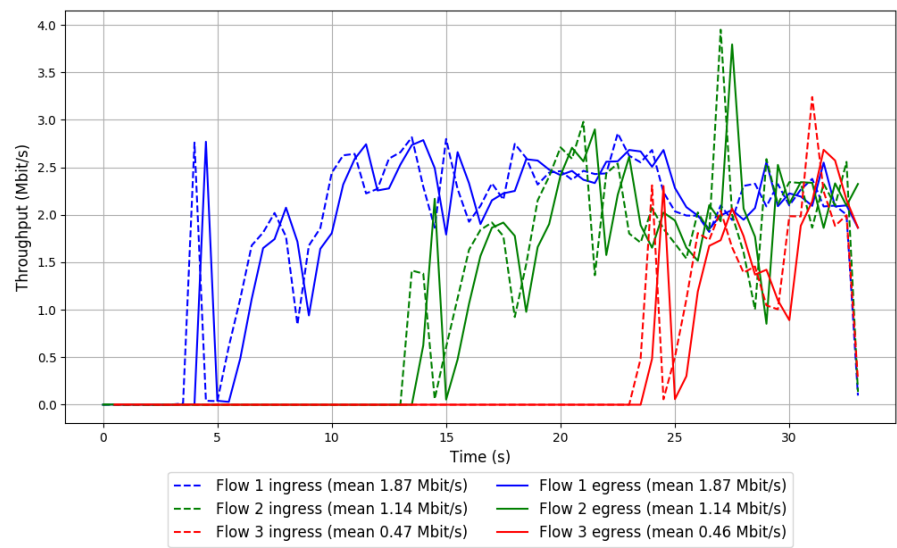


Run 4: Statistics of WebRTC media

Start at: 2018-12-01 06:17:17  
End at: 2018-12-01 06:17:47  
Local clock offset: -0.126 ms  
Remote clock offset: -0.328 ms

# Below is generated by plot.py at 2018-12-01 10:21:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.44 Mbit/s  
95th percentile per-packet one-way delay: 60.904 ms  
Loss rate: 0.70%  
-- Flow 1:  
Average throughput: 1.87 Mbit/s  
95th percentile per-packet one-way delay: 57.376 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 1.14 Mbit/s  
95th percentile per-packet one-way delay: 60.926 ms  
Loss rate: 0.80%  
-- Flow 3:  
Average throughput: 0.46 Mbit/s  
95th percentile per-packet one-way delay: 60.980 ms  
Loss rate: 1.76%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-12-01 06:54:11

End at: 2018-12-01 06:54:41

Local clock offset: 0.046 ms

Remote clock offset: 0.191 ms

# Below is generated by plot.py at 2018-12-01 10:21:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.44 Mbit/s

95th percentile per-packet one-way delay: 57.279 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 57.215 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 1.13 Mbit/s

95th percentile per-packet one-way delay: 57.318 ms

Loss rate: 1.02%

-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 57.225 ms

Loss rate: 1.33%

Run 5: Report of WebRTC media — Data Link

