

## Pantheon Report

Generated at 2019-01-25 11:31:54 (UTC).

Data path: GCE Iowa on **ens4** (*local*) → GCE Tokyo on **ens4** (*remote*).

Repeated the test of 21 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 4.15.0-1026-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:

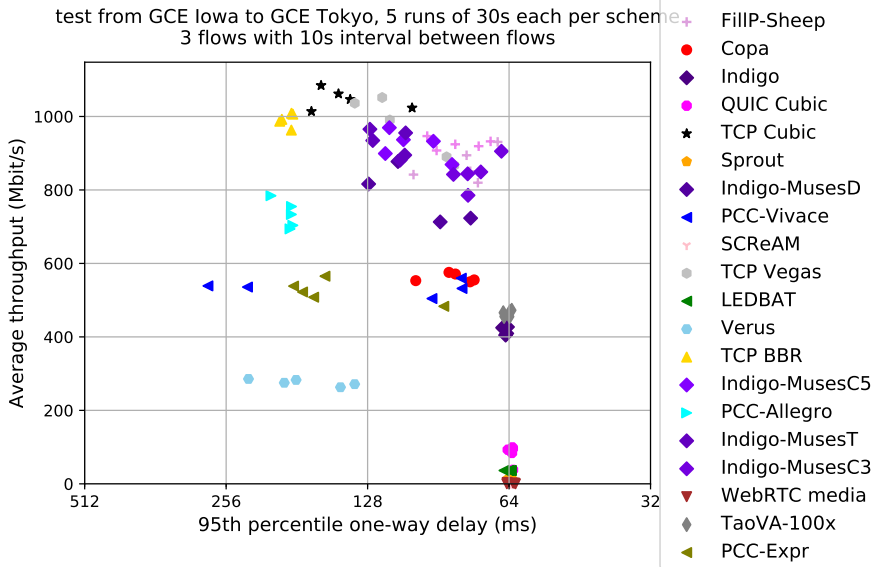
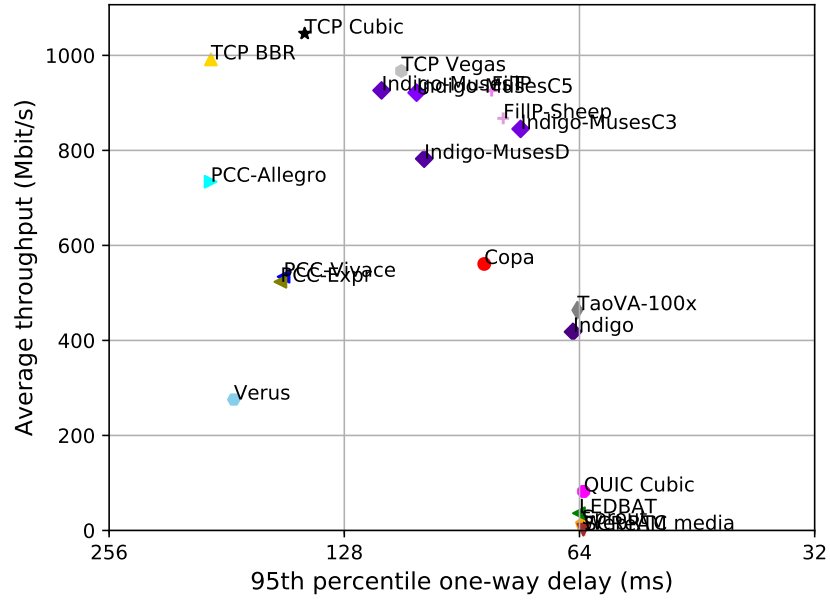
```
branch: muses @ 0b8e9a949603c3842368430acf469eec3b941f9f
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ d9c5ea33091330aca25ecd105ab2db6d34d5c40d
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 Iowa to GCE Tokyo, 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	529.35	476.70	435.42	182.74	193.39	159.01	1.72	2.87	2.24
Copa	5	290.69	280.71	248.84	84.01	83.76	87.41	0.04	0.01	0.02
TCP Cubic	5	559.14	506.29	449.65	131.51	116.41	145.13	0.14	0.24	0.52
FillP	5	595.51	366.01	262.01	86.54	67.69	67.89	0.09	0.00	0.10
FillP-Sheep	5	559.23	356.55	213.96	85.42	72.61	66.44	0.10	0.00	0.01
Indigo	5	220.14	211.28	179.53	64.83	65.44	65.68	0.00	0.00	0.03
Indigo-MusesC3	5	492.83	413.72	323.02	76.59	74.46	67.02	0.00	0.00	0.03
Indigo-MusesC5	5	535.25	472.32	302.36	107.91	99.75	73.09	0.01	0.03	0.00
Indigo-MusesD	4	482.62	423.02	108.12	111.22	75.92	65.52	0.01	0.00	0.00
Indigo-MusesT	5	548.61	456.21	288.54	119.07	87.94	68.52	0.00	0.01	0.02
LEDBAT	5	23.36	15.59	7.67	64.13	64.13	63.62	0.00	0.00	0.00
PCC-Allegro	5	406.14	347.95	292.74	192.33	153.39	136.96	4.57	3.36	2.02
PCC-Expr	5	295.83	251.40	182.55	161.83	124.91	85.19	2.87	0.38	0.07
QUIC Cubic	5	45.41	43.21	24.44	63.10	63.04	63.07	0.00	0.00	0.00
SCReAM	5	0.22	0.22	0.22	63.06	62.96	63.00	0.00	0.00	0.00
Sprout	5	6.83	6.69	6.32	63.51	63.60	63.57	0.00	0.00	0.00
TaoVA-100x	5	234.93	233.78	219.99	64.23	64.37	64.76	0.03	0.02	0.10
TCP Vegas	5	532.26	433.89	438.59	103.96	86.03	106.70	0.09	0.03	0.16
Verus	5	166.35	121.38	87.74	168.00	138.53	127.29	1.67	0.24	2.26
PCC-Vivace	5	315.05	239.88	179.36	141.01	117.95	142.01	0.50	0.47	0.22
WebRTC media	5	0.82	0.61	0.26	63.32	63.14	63.21	0.00	0.00	0.00



Run 1: Statistics of TCP BBR

Start at: 2019-01-25 05:35:49

End at: 2019-01-25 05:36:19

Local clock offset: -0.036 ms

Remote clock offset: 0.563 ms

# Below is generated by plot.py at 2019-01-25 08:59:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 987.14 Mbit/s

95th percentile per-packet one-way delay: 196.871 ms

Loss rate: 2.71%

-- Flow 1:

Average throughput: 553.13 Mbit/s

95th percentile per-packet one-way delay: 188.115 ms

Loss rate: 2.76%

-- Flow 2:

Average throughput: 440.47 Mbit/s

95th percentile per-packet one-way delay: 182.250 ms

Loss rate: 1.98%

-- Flow 3:

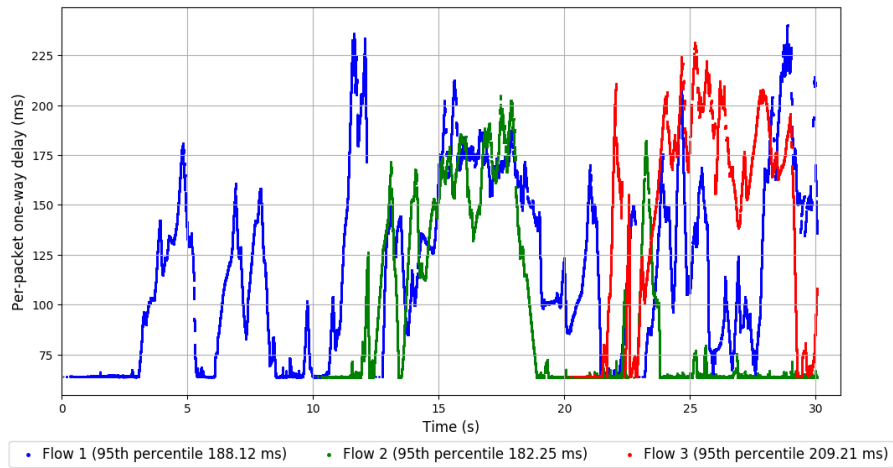
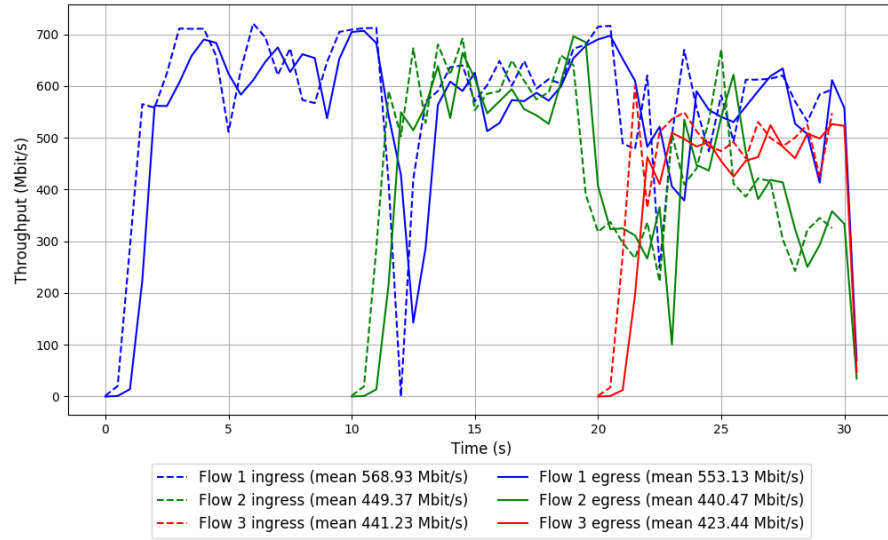
Average throughput: 423.44 Mbit/s

95th percentile per-packet one-way delay: 209.214 ms

Loss rate: 4.03%



# Run 1: Report of TCP BBR — Data Link





Run 2: Statistics of TCP BBR

Start at: 2019-01-25 06:13:13

End at: 2019-01-25 06:13:43

Local clock offset: 0.029 ms

Remote clock offset: 0.18 ms

# Below is generated by plot.py at 2019-01-25 08:59:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1008.81 Mbit/s

95th percentile per-packet one-way delay: 185.869 ms

Loss rate: 2.40%

-- Flow 1:

Average throughput: 537.50 Mbit/s

95th percentile per-packet one-way delay: 178.768 ms

Loss rate: 1.73%

-- Flow 2:

Average throughput: 493.88 Mbit/s

95th percentile per-packet one-way delay: 199.484 ms

Loss rate: 4.01%

-- Flow 3:

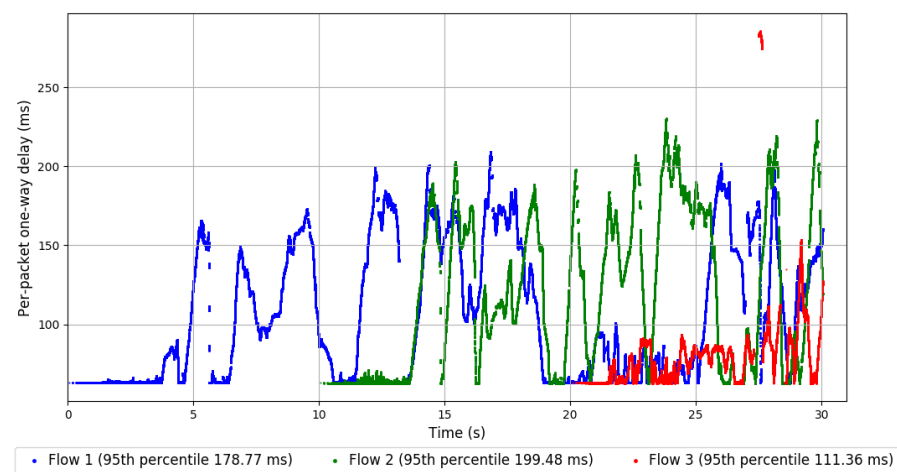
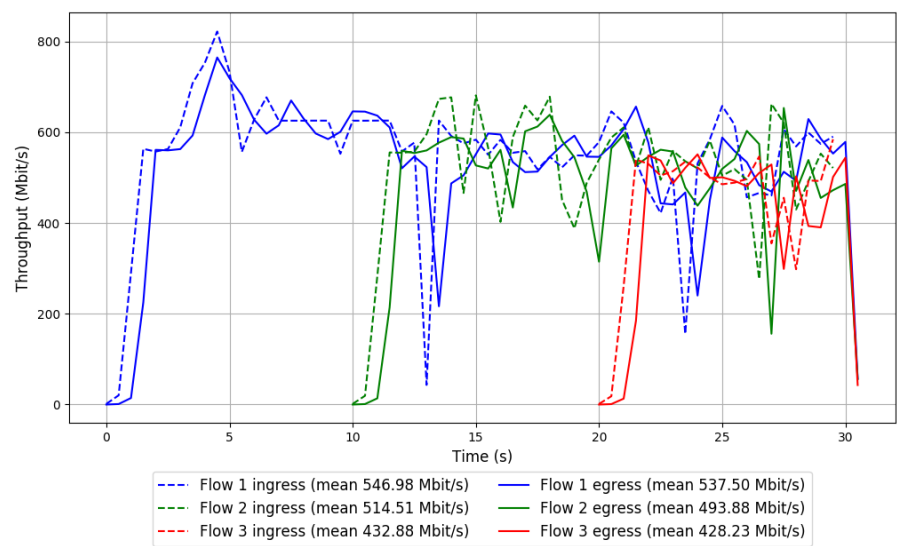
Average throughput: 428.23 Mbit/s

95th percentile per-packet one-way delay: 111.362 ms

Loss rate: 1.07%



Run 2: Report of TCP BBR — Data Link





Run 3: Statistics of TCP BBR

Start at: 2019-01-25 06:50:31

End at: 2019-01-25 06:51:01

Local clock offset: 0.14 ms

Remote clock offset: 1.265 ms

# Below is generated by plot.py at 2019-01-25 08:59:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1006.36 Mbit/s

95th percentile per-packet one-way delay: 184.683 ms

Loss rate: 2.20%

-- Flow 1:

Average throughput: 524.39 Mbit/s

95th percentile per-packet one-way delay: 177.306 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 487.87 Mbit/s

95th percentile per-packet one-way delay: 190.273 ms

Loss rate: 3.63%

-- Flow 3:

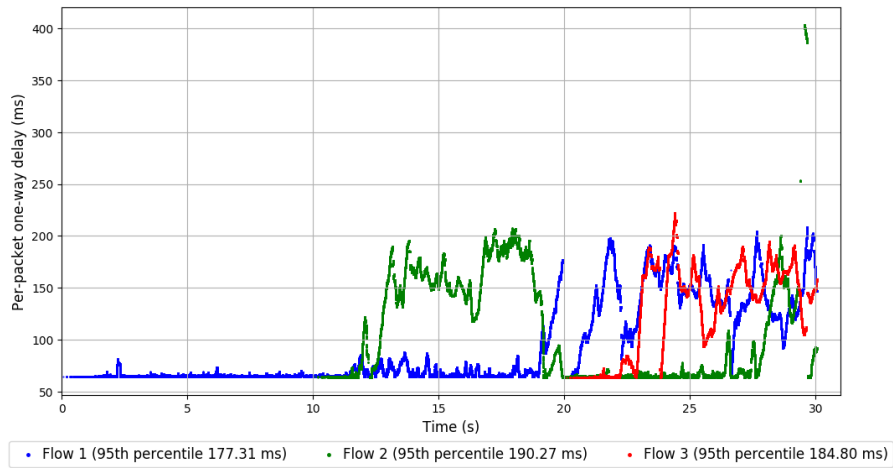
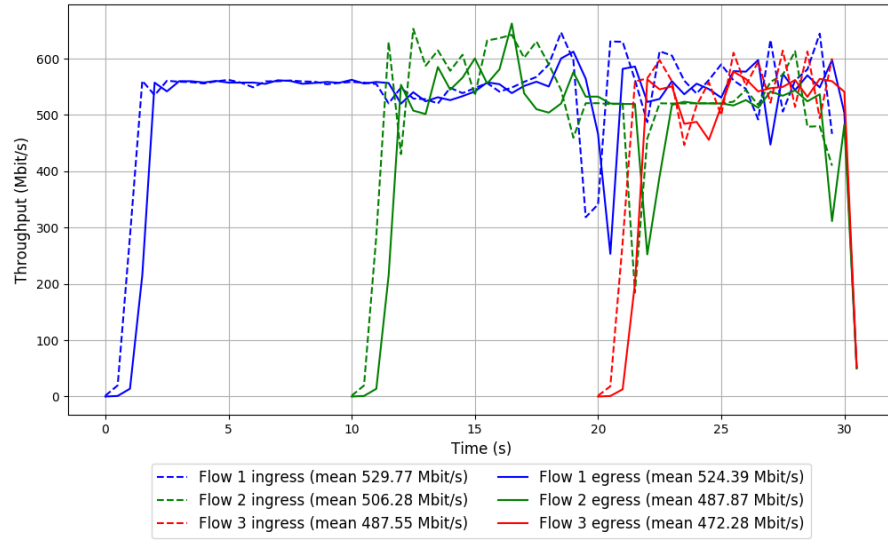
Average throughput: 472.28 Mbit/s

95th percentile per-packet one-way delay: 184.801 ms

Loss rate: 3.12%



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





Run 4: Statistics of TCP BBR

Start at: 2019-01-25 07:27:41

End at: 2019-01-25 07:28:11

Local clock offset: -0.035 ms

Remote clock offset: 0.524 ms

# Below is generated by plot.py at 2019-01-25 08:59:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 992.26 Mbit/s

95th percentile per-packet one-way delay: 194.859 ms

Loss rate: 1.91%

-- Flow 1:

Average throughput: 525.63 Mbit/s

95th percentile per-packet one-way delay: 188.310 ms

Loss rate: 1.89%

-- Flow 2:

Average throughput: 469.68 Mbit/s

95th percentile per-packet one-way delay: 205.277 ms

Loss rate: 2.02%

-- Flow 3:

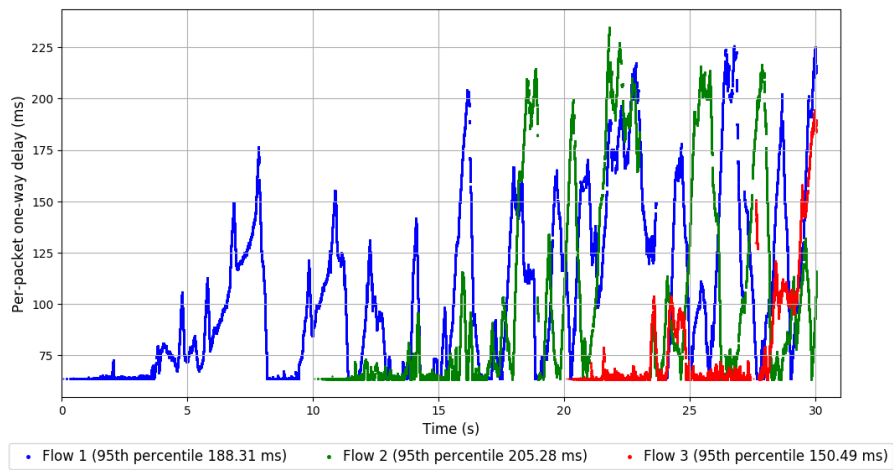
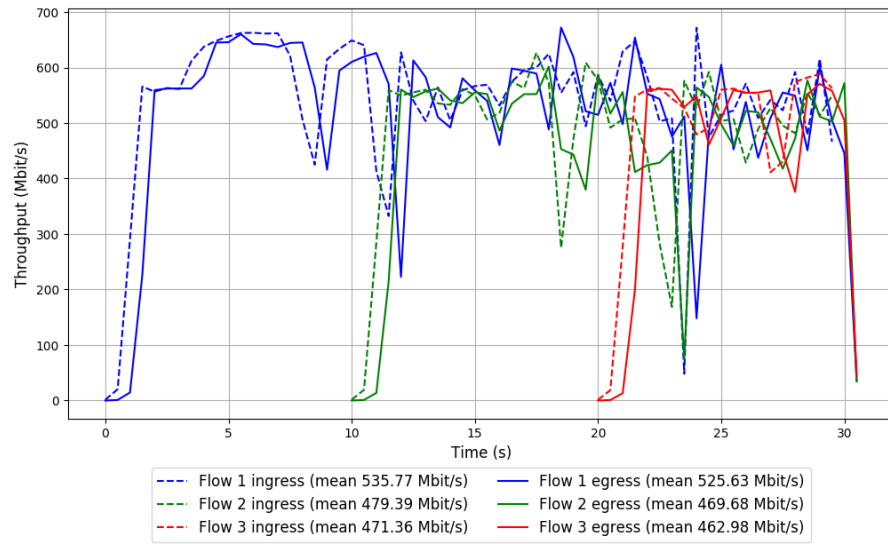
Average throughput: 462.98 Mbit/s

95th percentile per-packet one-way delay: 150.489 ms

Loss rate: 1.76%



# Run 4: Report of TCP BBR — Data Link





Run 5: Statistics of TCP BBR

Start at: 2019-01-25 08:04:57

End at: 2019-01-25 08:05:27

Local clock offset: -0.083 ms

Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2019-01-25 08:59:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 962.99 Mbit/s

95th percentile per-packet one-way delay: 185.985 ms

Loss rate: 1.73%

-- Flow 1:

Average throughput: 506.08 Mbit/s

95th percentile per-packet one-way delay: 181.203 ms

Loss rate: 1.21%

-- Flow 2:

Average throughput: 491.60 Mbit/s

95th percentile per-packet one-way delay: 189.657 ms

Loss rate: 2.72%

-- Flow 3:

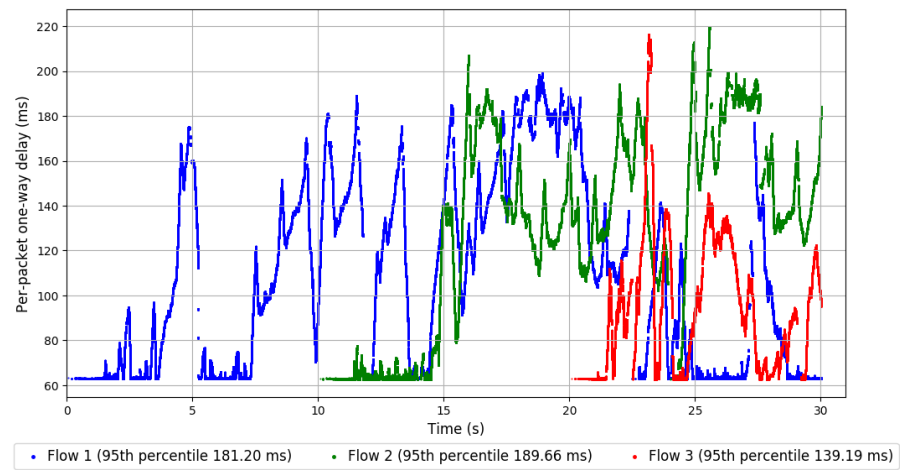
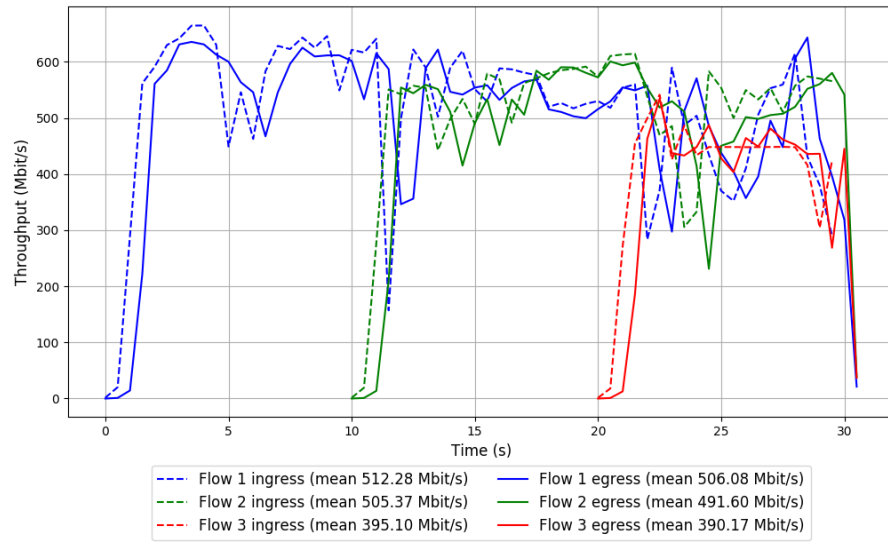
Average throughput: 390.17 Mbit/s

95th percentile per-packet one-way delay: 139.185 ms

Loss rate: 1.24%



# Run 5: Report of TCP BBR — Data Link





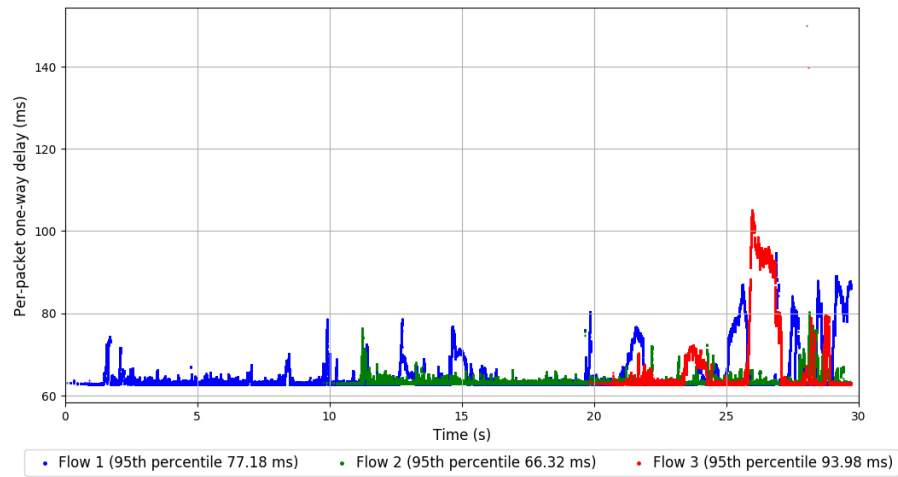
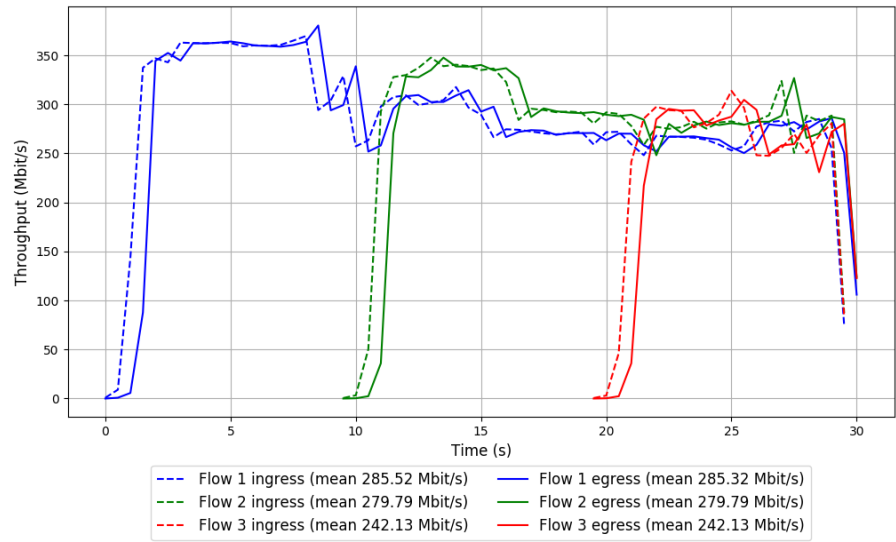
Run 1: Statistics of Copa

Start at: 2019-01-25 05:17:01  
End at: 2019-01-25 05:17:31  
Local clock offset: -0.02 ms  
Remote clock offset: -0.387 ms

# Below is generated by plot.py at 2019-01-25 08:59:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 555.09 Mbit/s  
95th percentile per-packet one-way delay: 75.935 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 285.32 Mbit/s  
95th percentile per-packet one-way delay: 77.179 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 279.79 Mbit/s  
95th percentile per-packet one-way delay: 66.320 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 242.13 Mbit/s  
95th percentile per-packet one-way delay: 93.978 ms  
Loss rate: 0.00%



## Run 1: Report of Copa — Data Link





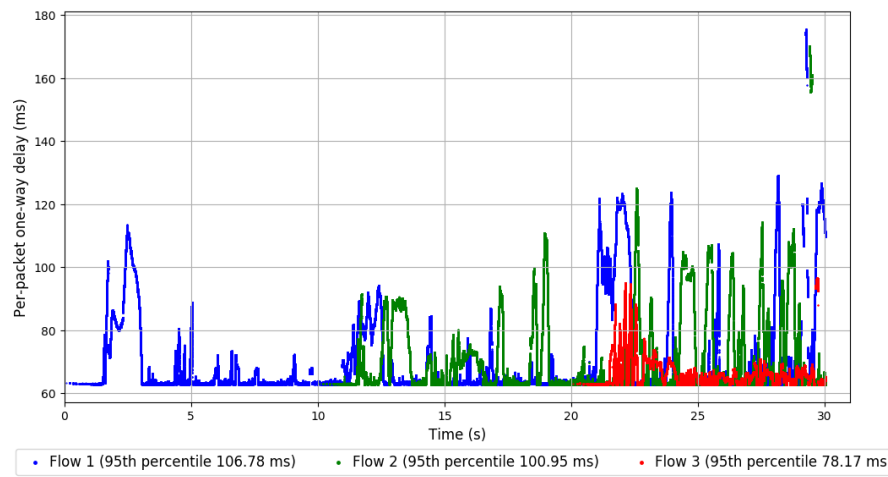
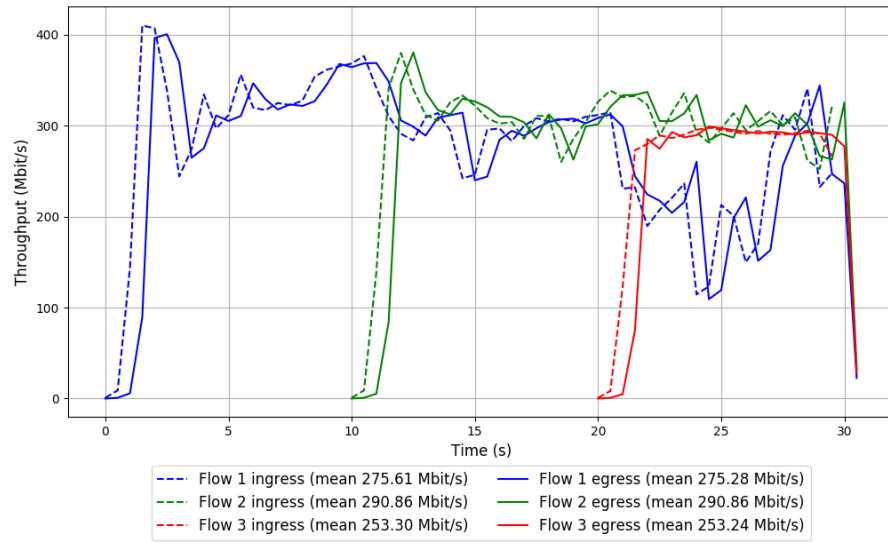
Run 2: Statistics of Copa

Start at: 2019-01-25 05:54:18  
End at: 2019-01-25 05:54:48  
Local clock offset: -0.063 ms  
Remote clock offset: 0.111 ms

# Below is generated by plot.py at 2019-01-25 09:00:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 553.13 Mbit/s  
95th percentile per-packet one-way delay: 101.105 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 275.28 Mbit/s  
95th percentile per-packet one-way delay: 106.784 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 290.86 Mbit/s  
95th percentile per-packet one-way delay: 100.949 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 253.24 Mbit/s  
95th percentile per-packet one-way delay: 78.168 ms  
Loss rate: 0.01%



## Run 2: Report of Copa — Data Link





Run 3: Statistics of Copa

Start at: 2019-01-25 06:31:48

End at: 2019-01-25 06:32:18

Local clock offset: -0.098 ms

Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2019-01-25 09:00:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 549.88 Mbit/s

95th percentile per-packet one-way delay: 77.502 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 287.75 Mbit/s

95th percentile per-packet one-way delay: 80.408 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 262.37 Mbit/s

95th percentile per-packet one-way delay: 75.405 ms

Loss rate: 0.00%

-- Flow 3:

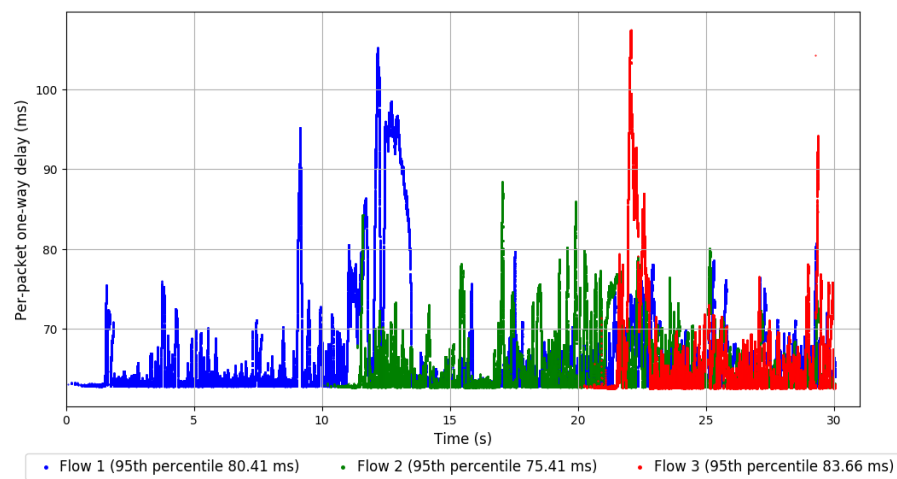
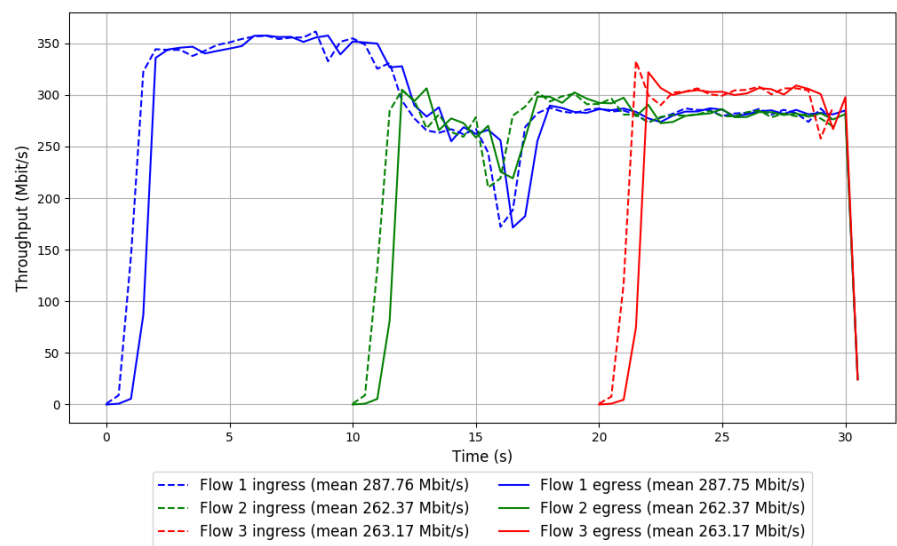
Average throughput: 263.17 Mbit/s

95th percentile per-packet one-way delay: 83.656 ms

Loss rate: 0.00%



Run 3: Report of Copa — Data Link





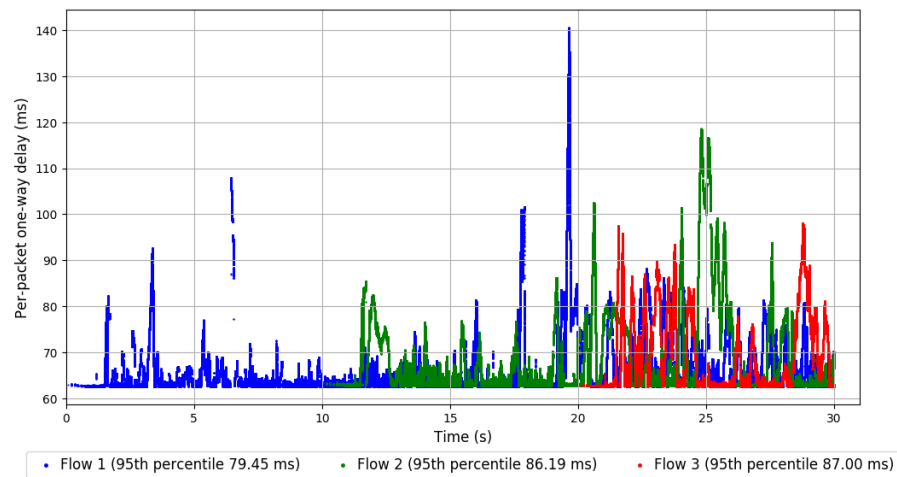
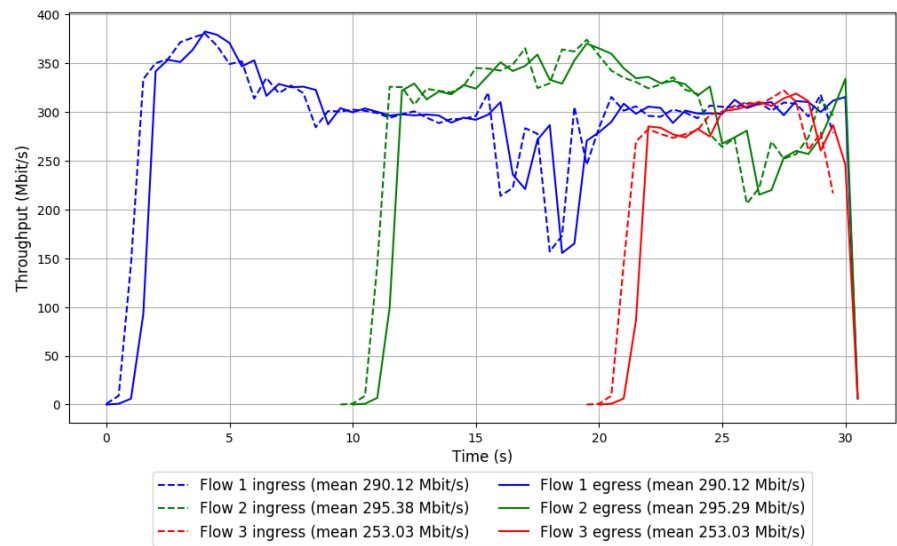
Run 4: Statistics of Copa

Start at: 2019-01-25 07:08:51  
End at: 2019-01-25 07:09:21  
Local clock offset: 0.099 ms  
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2019-01-25 09:17:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 571.12 Mbit/s  
95th percentile per-packet one-way delay: 83.253 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 290.12 Mbit/s  
95th percentile per-packet one-way delay: 79.447 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 295.29 Mbit/s  
95th percentile per-packet one-way delay: 86.186 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 253.03 Mbit/s  
95th percentile per-packet one-way delay: 86.997 ms  
Loss rate: 0.00%



Run 4: Report of Copa — Data Link





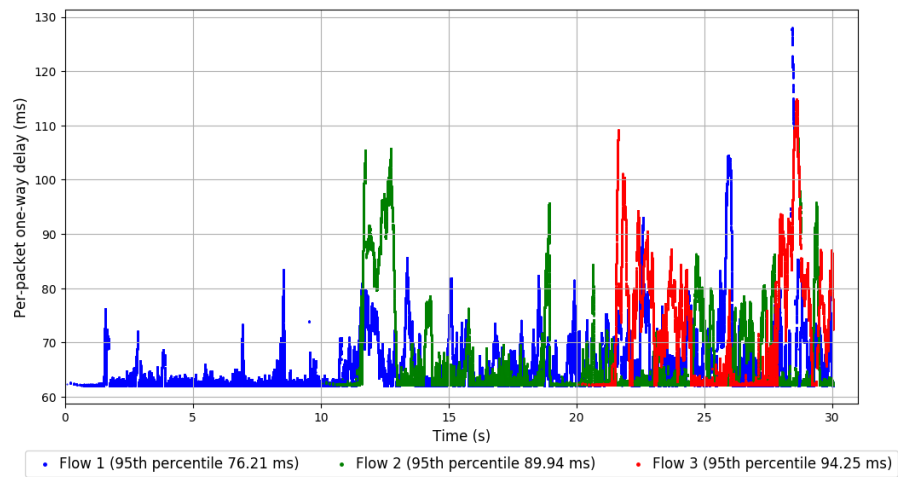
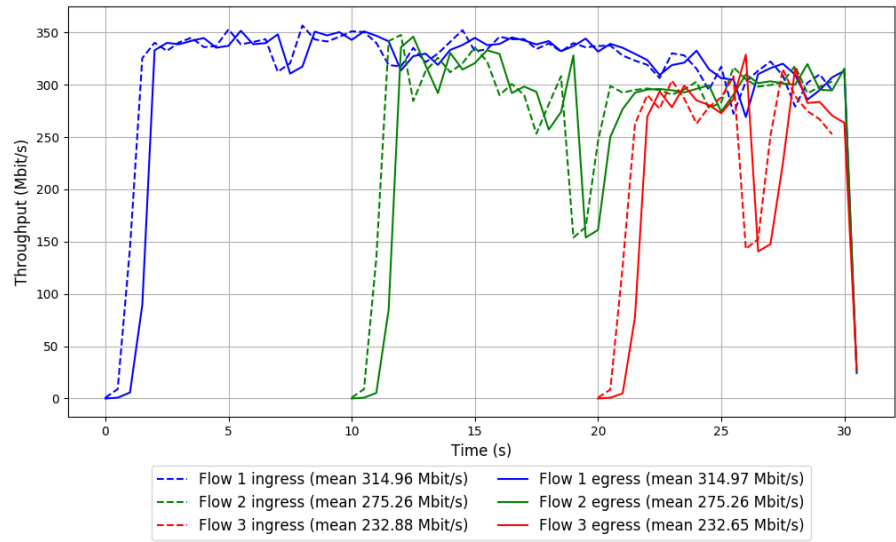
Run 5: Statistics of Copa

Start at: 2019-01-25 07:46:09  
End at: 2019-01-25 07:46:39  
Local clock offset: -0.043 ms  
Remote clock offset: -0.734 ms

# Below is generated by plot.py at 2019-01-25 09:18:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 575.60 Mbit/s  
95th percentile per-packet one-way delay: 85.912 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 314.97 Mbit/s  
95th percentile per-packet one-way delay: 76.213 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 275.26 Mbit/s  
95th percentile per-packet one-way delay: 89.935 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 232.65 Mbit/s  
95th percentile per-packet one-way delay: 94.247 ms  
Loss rate: 0.10%



## Run 5: Report of Copa — Data Link





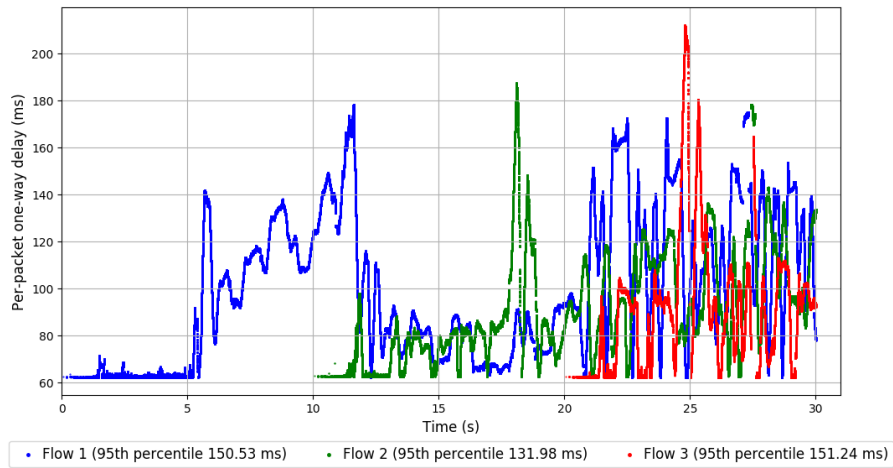
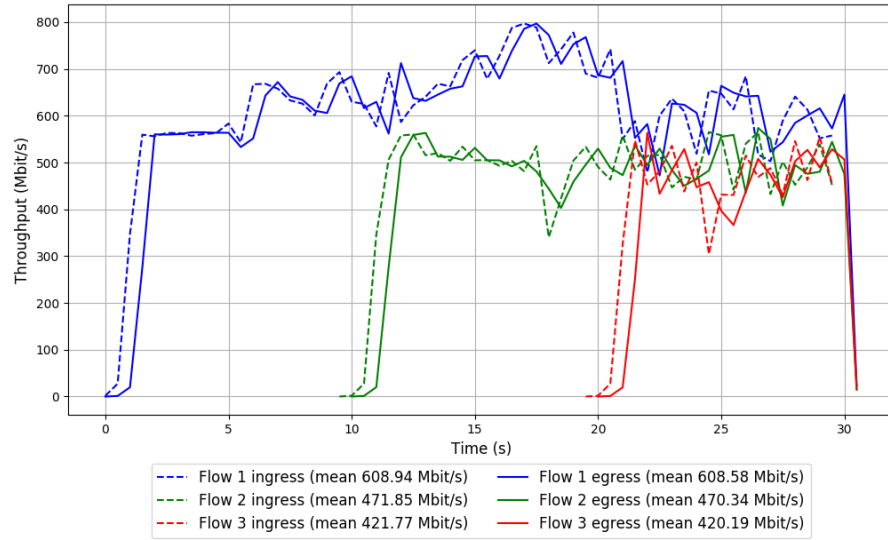
Run 1: Statistics of TCP Cubic

Start at: 2019-01-25 05:26:39  
End at: 2019-01-25 05:27:09  
Local clock offset: 0.003 ms  
Remote clock offset: -1.081 ms

# Below is generated by plot.py at 2019-01-25 09:18:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1061.70 Mbit/s  
95th percentile per-packet one-way delay: 147.631 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 608.58 Mbit/s  
95th percentile per-packet one-way delay: 150.534 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 470.34 Mbit/s  
95th percentile per-packet one-way delay: 131.984 ms  
Loss rate: 0.32%  
-- Flow 3:  
Average throughput: 420.19 Mbit/s  
95th percentile per-packet one-way delay: 151.241 ms  
Loss rate: 0.38%



# Run 1: Report of TCP Cubic — Data Link





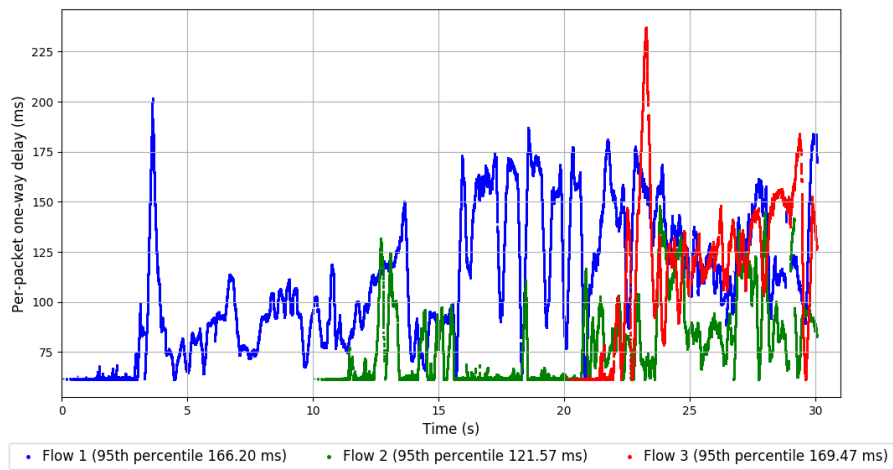
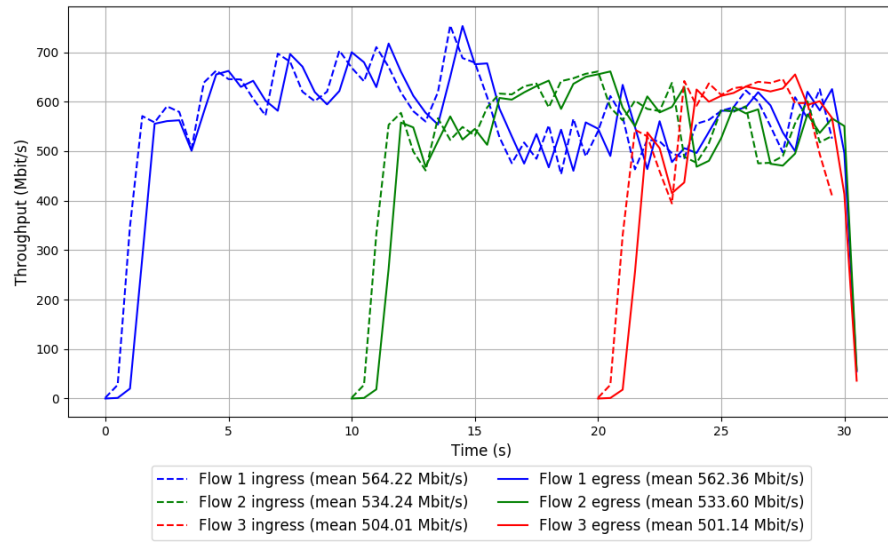
Run 2: Statistics of TCP Cubic

Start at: 2019-01-25 06:04:03  
End at: 2019-01-25 06:04:33  
Local clock offset: -0.008 ms  
Remote clock offset: -1.254 ms

# Below is generated by plot.py at 2019-01-25 09:19:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1084.49 Mbit/s  
95th percentile per-packet one-way delay: 160.784 ms  
Loss rate: 0.29%  
-- Flow 1:  
Average throughput: 562.36 Mbit/s  
95th percentile per-packet one-way delay: 166.200 ms  
Loss rate: 0.32%  
-- Flow 2:  
Average throughput: 533.60 Mbit/s  
95th percentile per-packet one-way delay: 121.567 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 501.14 Mbit/s  
95th percentile per-packet one-way delay: 169.469 ms  
Loss rate: 0.56%



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





Run 3: Statistics of TCP Cubic

Start at: 2019-01-25 06:41:32

End at: 2019-01-25 06:42:02

Local clock offset: -0.059 ms

Remote clock offset: 0.085 ms

# Below is generated by plot.py at 2019-01-25 09:19:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1046.53 Mbit/s

95th percentile per-packet one-way delay: 139.388 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 561.88 Mbit/s

95th percentile per-packet one-way delay: 138.388 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 503.80 Mbit/s

95th percentile per-packet one-way delay: 141.782 ms

Loss rate: 0.43%

-- Flow 3:

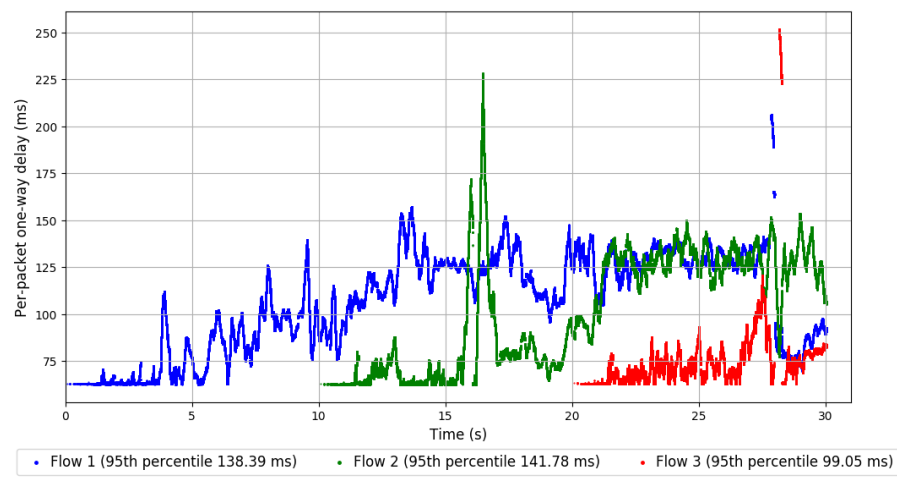
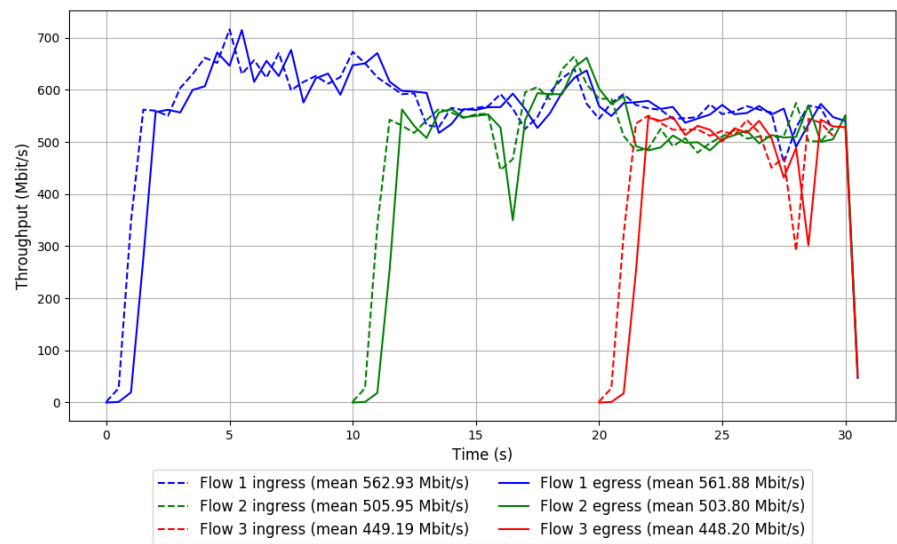
Average throughput: 448.20 Mbit/s

95th percentile per-packet one-way delay: 99.046 ms

Loss rate: 0.22%



Run 3: Report of TCP Cubic — Data Link





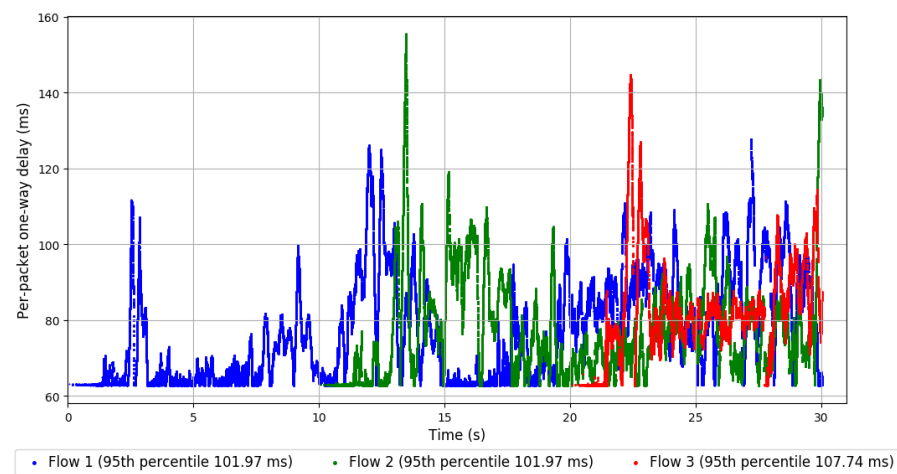
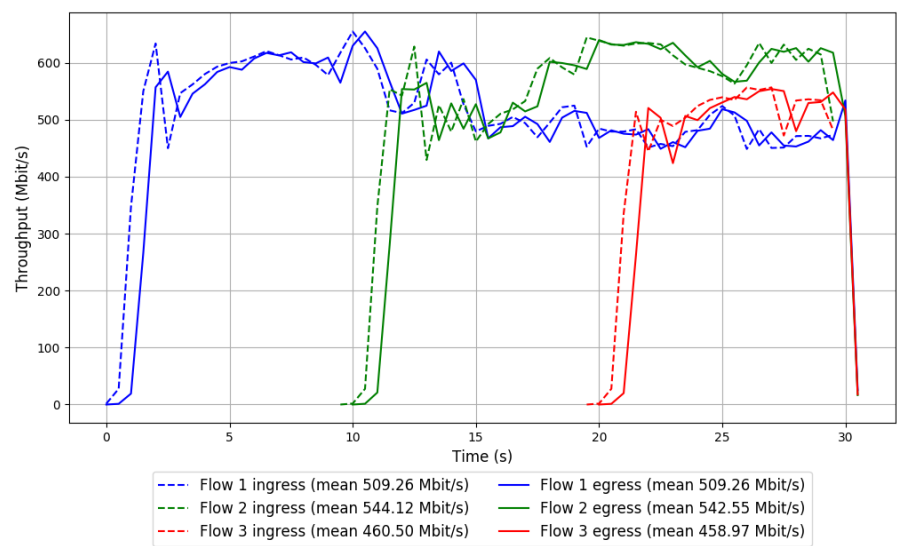
Run 4: Statistics of TCP Cubic

Start at: 2019-01-25 07:18:38  
End at: 2019-01-25 07:19:08  
Local clock offset: -0.067 ms  
Remote clock offset: -0.137 ms

# Below is generated by plot.py at 2019-01-25 09:19:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1023.42 Mbit/s  
95th percentile per-packet one-way delay: 102.929 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 509.26 Mbit/s  
95th percentile per-packet one-way delay: 101.972 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 542.55 Mbit/s  
95th percentile per-packet one-way delay: 101.971 ms  
Loss rate: 0.28%  
-- Flow 3:  
Average throughput: 458.97 Mbit/s  
95th percentile per-packet one-way delay: 107.736 ms  
Loss rate: 0.33%



Run 4: Report of TCP Cubic — Data Link





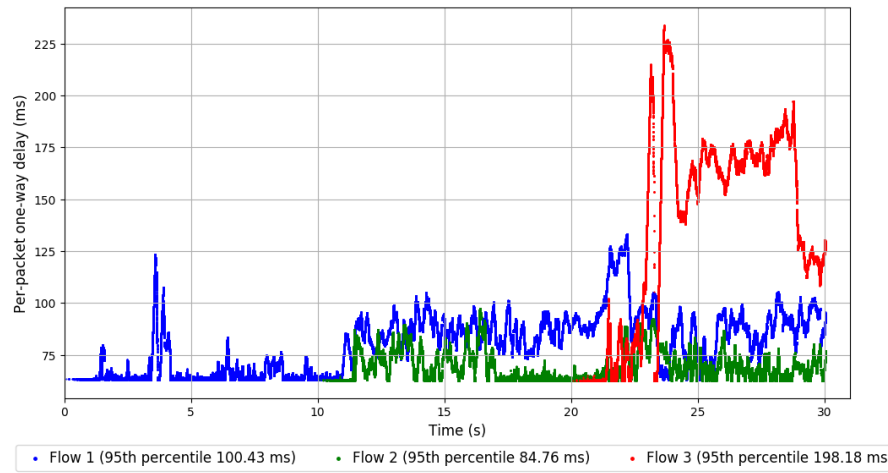
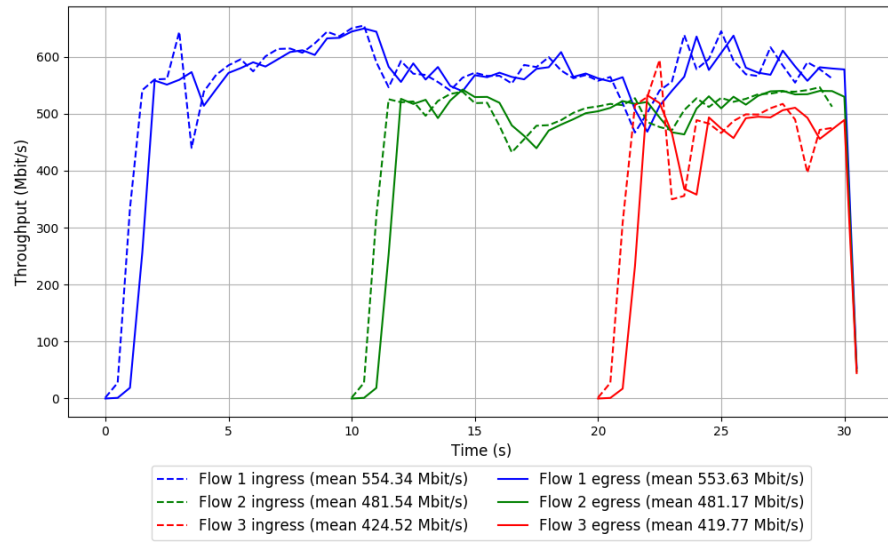
Run 5: Statistics of TCP Cubic

Start at: 2019-01-25 07:55:56  
End at: 2019-01-25 07:56:26  
Local clock offset: -0.044 ms  
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2019-01-25 09:19:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1013.74 Mbit/s  
95th percentile per-packet one-way delay: 168.556 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 553.63 Mbit/s  
95th percentile per-packet one-way delay: 100.433 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 481.17 Mbit/s  
95th percentile per-packet one-way delay: 84.764 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 419.77 Mbit/s  
95th percentile per-packet one-way delay: 198.179 ms  
Loss rate: 1.11%



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





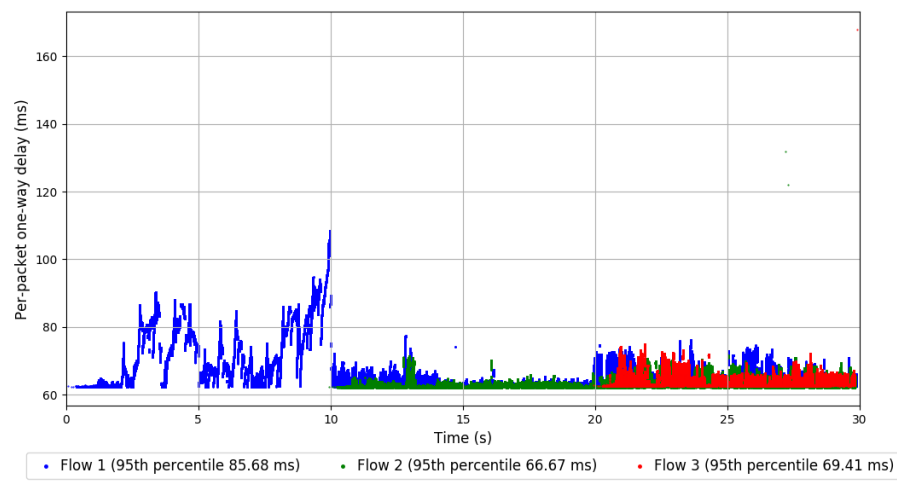
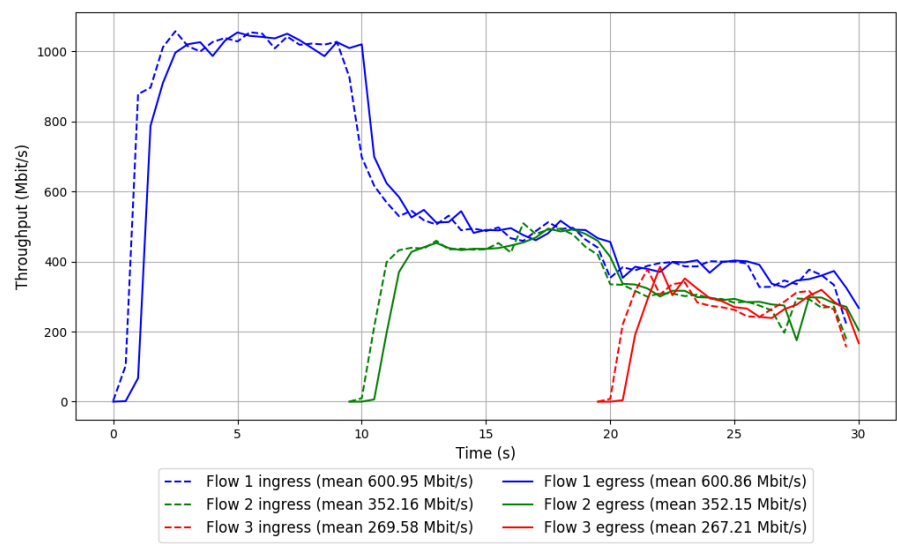
Run 1: Statistics of FillP

Start at: 2019-01-25 05:30:00  
End at: 2019-01-25 05:30:30  
Local clock offset: 0.018 ms  
Remote clock offset: -1.126 ms

# Below is generated by plot.py at 2019-01-25 09:19:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 924.26 Mbit/s  
95th percentile per-packet one-way delay: 83.308 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 600.86 Mbit/s  
95th percentile per-packet one-way delay: 85.683 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 352.15 Mbit/s  
95th percentile per-packet one-way delay: 66.667 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 267.21 Mbit/s  
95th percentile per-packet one-way delay: 69.407 ms  
Loss rate: 0.50%



Run 1: Report of FillP — Data Link





Run 2: Statistics of FillP

Start at: 2019-01-25 06:07:24

End at: 2019-01-25 06:07:54

Local clock offset: -0.028 ms

Remote clock offset: 0.559 ms

# Below is generated by plot.py at 2019-01-25 09:38:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 919.15 Mbit/s

95th percentile per-packet one-way delay: 74.277 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 596.22 Mbit/s

95th percentile per-packet one-way delay: 78.855 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 365.24 Mbit/s

95th percentile per-packet one-way delay: 66.863 ms

Loss rate: 0.00%

-- Flow 3:

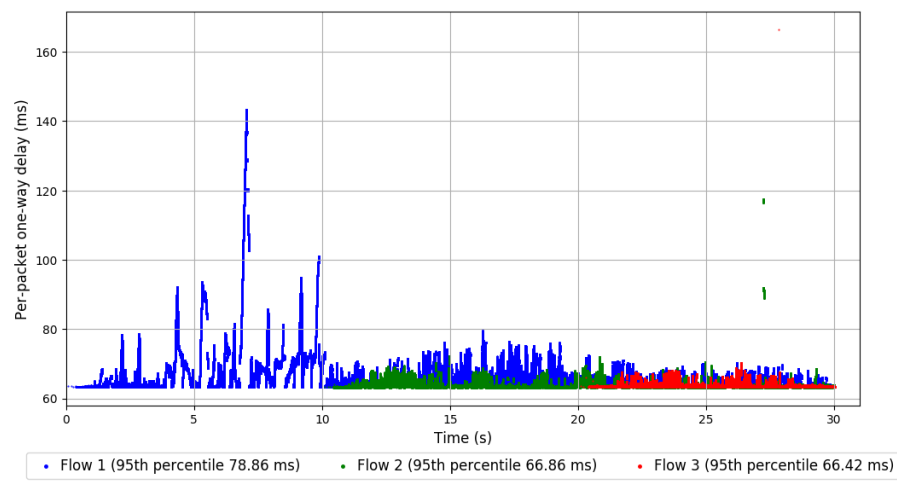
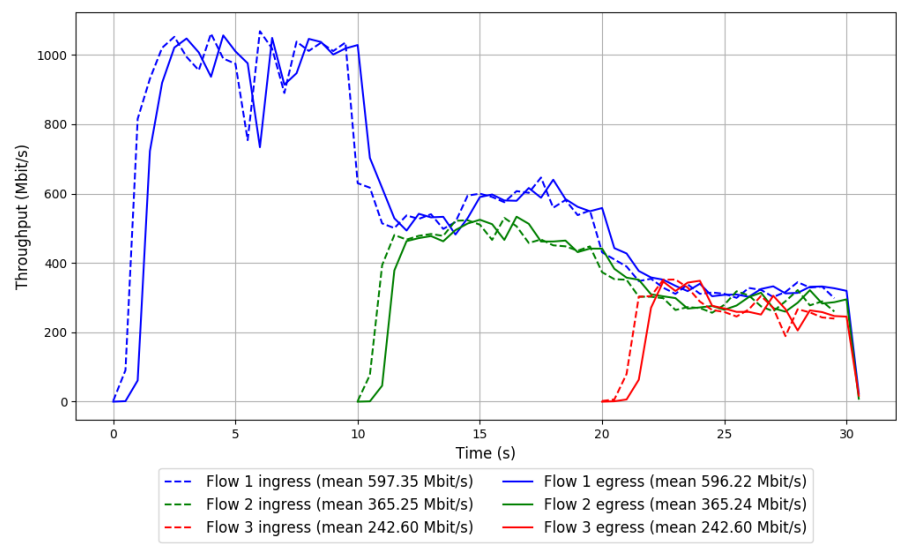
Average throughput: 242.60 Mbit/s

95th percentile per-packet one-way delay: 66.419 ms

Loss rate: 0.00%



Run 2: Report of FillP — Data Link





Run 3: Statistics of FillP

Start at: 2019-01-25 06:44:51

End at: 2019-01-25 06:45:21

Local clock offset: 0.124 ms

Remote clock offset: 1.522 ms

# Below is generated by plot.py at 2019-01-25 09:38:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 932.23 Mbit/s

95th percentile per-packet one-way delay: 70.067 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 602.37 Mbit/s

95th percentile per-packet one-way delay: 70.486 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 370.37 Mbit/s

95th percentile per-packet one-way delay: 69.586 ms

Loss rate: 0.00%

-- Flow 3:

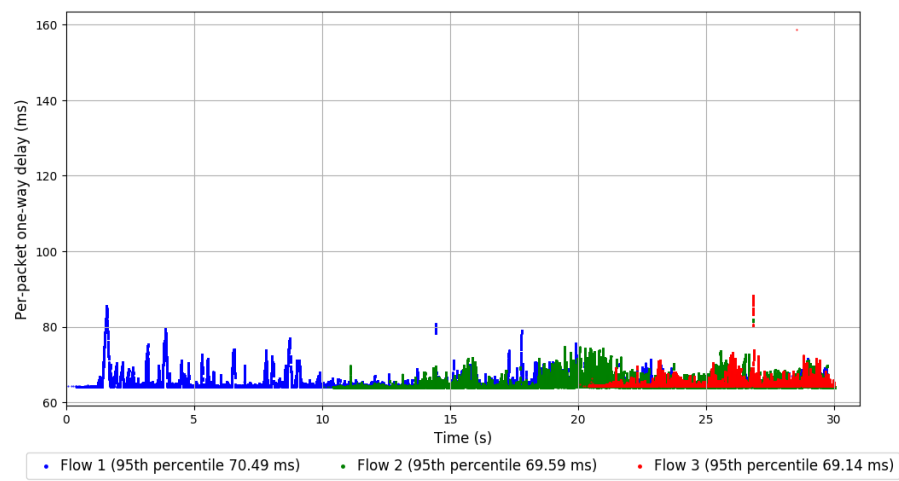
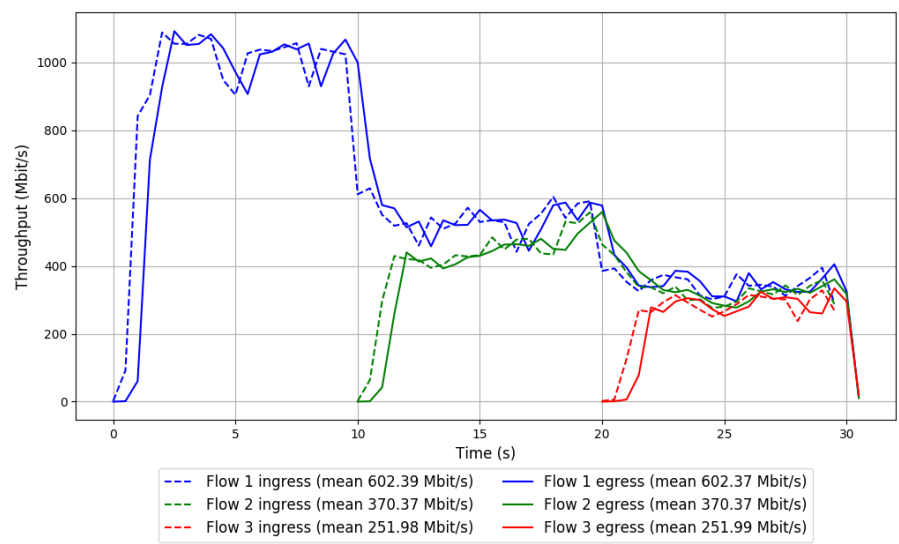
Average throughput: 251.99 Mbit/s

95th percentile per-packet one-way delay: 69.135 ms

Loss rate: 0.00%



Run 3: Report of FillP — Data Link





Run 4: Statistics of FillP

Start at: 2019-01-25 07:21:56

End at: 2019-01-25 07:22:26

Local clock offset: 0.029 ms

Remote clock offset: 0.693 ms

# Below is generated by plot.py at 2019-01-25 09:38:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 907.46 Mbit/s

95th percentile per-packet one-way delay: 91.289 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 598.00 Mbit/s

95th percentile per-packet one-way delay: 94.720 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 320.57 Mbit/s

95th percentile per-packet one-way delay: 68.837 ms

Loss rate: 0.00%

-- Flow 3:

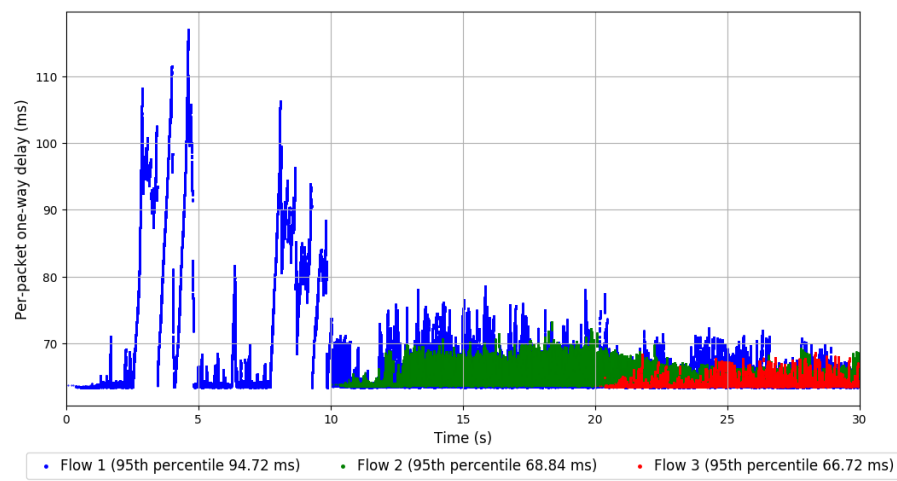
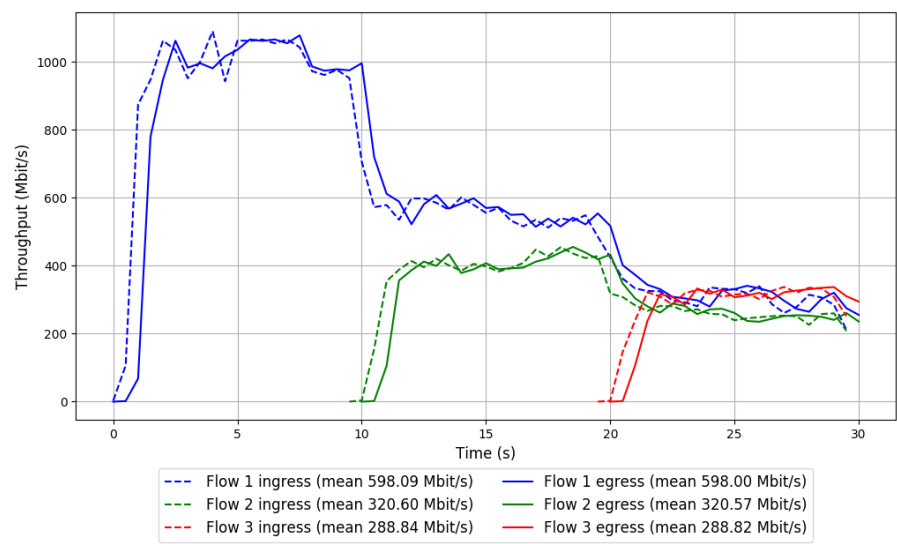
Average throughput: 288.82 Mbit/s

95th percentile per-packet one-way delay: 66.724 ms

Loss rate: 0.00%



Run 4: Report of FillP — Data Link





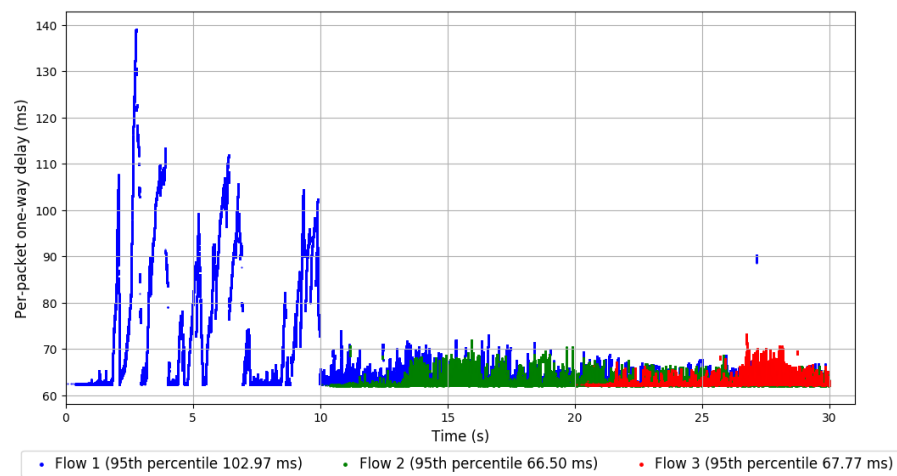
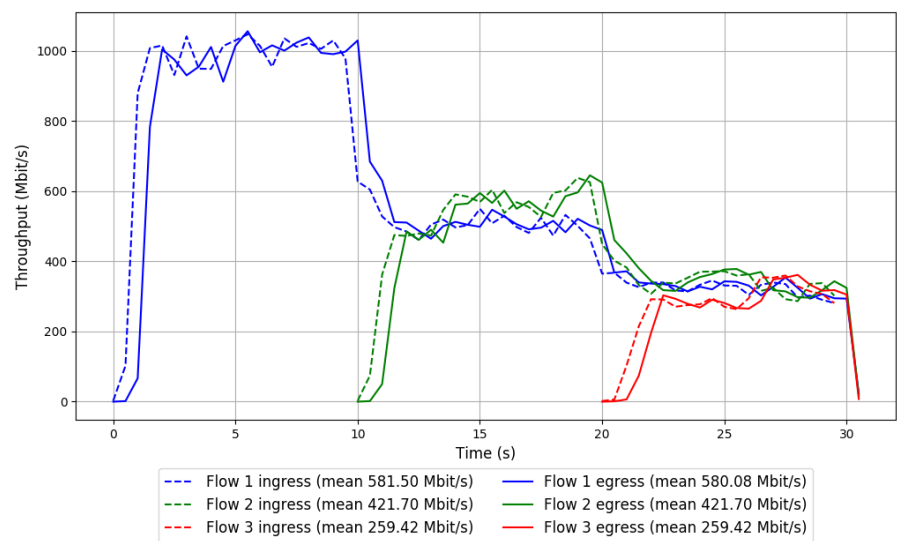
Run 5: Statistics of FillP

Start at: 2019-01-25 07:59:14  
End at: 2019-01-25 07:59:44  
Local clock offset: -0.075 ms  
Remote clock offset: -0.628 ms

# Below is generated by plot.py at 2019-01-25 09:39:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 946.62 Mbit/s  
95th percentile per-packet one-way delay: 95.576 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 580.08 Mbit/s  
95th percentile per-packet one-way delay: 102.968 ms  
Loss rate: 0.24%  
-- Flow 2:  
Average throughput: 421.70 Mbit/s  
95th percentile per-packet one-way delay: 66.499 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 259.42 Mbit/s  
95th percentile per-packet one-way delay: 67.766 ms  
Loss rate: 0.00%



Run 5: Report of FillP — Data Link





Run 1: Statistics of FillP-Sheep

Start at: 2019-01-25 05:45:23

End at: 2019-01-25 05:45:53

Local clock offset: 0.068 ms

Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2019-01-25 09:39:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 850.83 Mbit/s

95th percentile per-packet one-way delay: 77.404 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 529.61 Mbit/s

95th percentile per-packet one-way delay: 95.322 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 361.56 Mbit/s

95th percentile per-packet one-way delay: 67.103 ms

Loss rate: 0.00%

-- Flow 3:

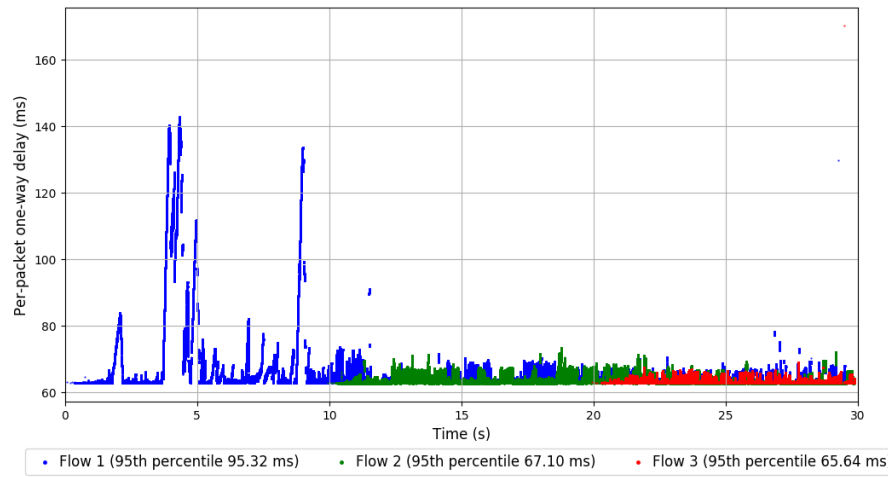
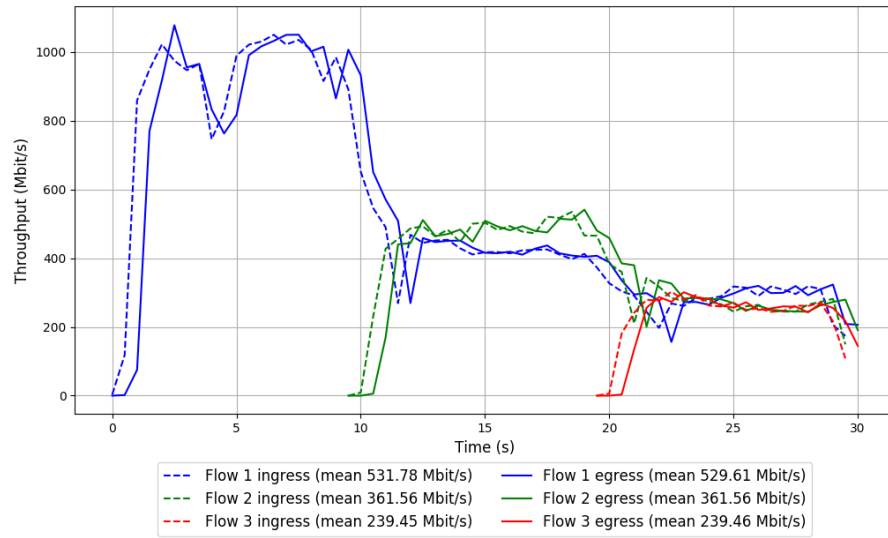
Average throughput: 239.46 Mbit/s

95th percentile per-packet one-way delay: 65.639 ms

Loss rate: 0.00%



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





Run 2: Statistics of FillP-Sheep

Start at: 2019-01-25 06:22:45

End at: 2019-01-25 06:23:15

Local clock offset: -0.07 ms

Remote clock offset: -0.55 ms

# Below is generated by plot.py at 2019-01-25 09:39:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 930.74 Mbit/s

95th percentile per-packet one-way delay: 67.674 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 595.85 Mbit/s

95th percentile per-packet one-way delay: 66.549 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 361.26 Mbit/s

95th percentile per-packet one-way delay: 67.942 ms

Loss rate: 0.00%

-- Flow 3:

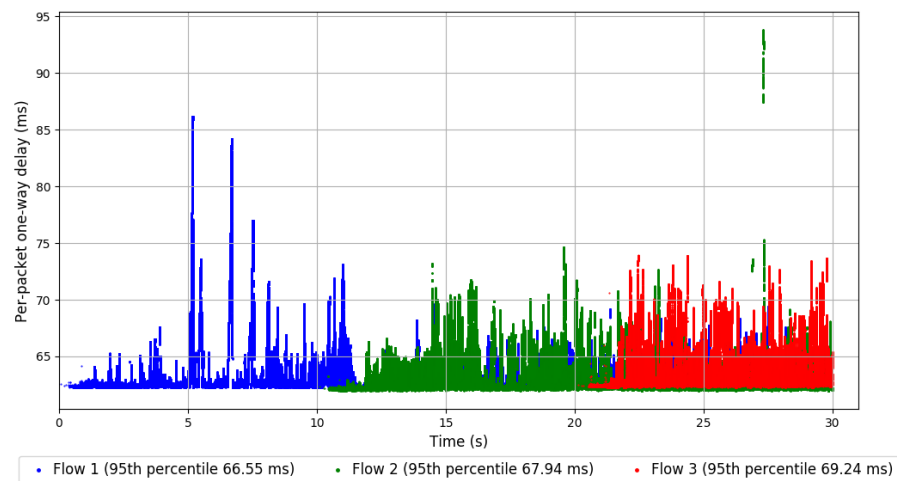
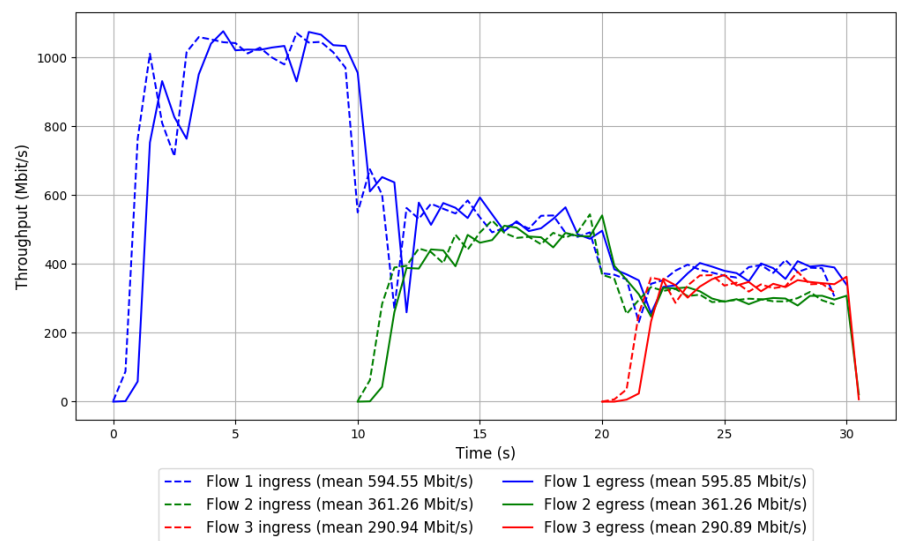
Average throughput: 290.89 Mbit/s

95th percentile per-packet one-way delay: 69.244 ms

Loss rate: 0.01%



Run 2: Report of FillP-Sheep — Data Link





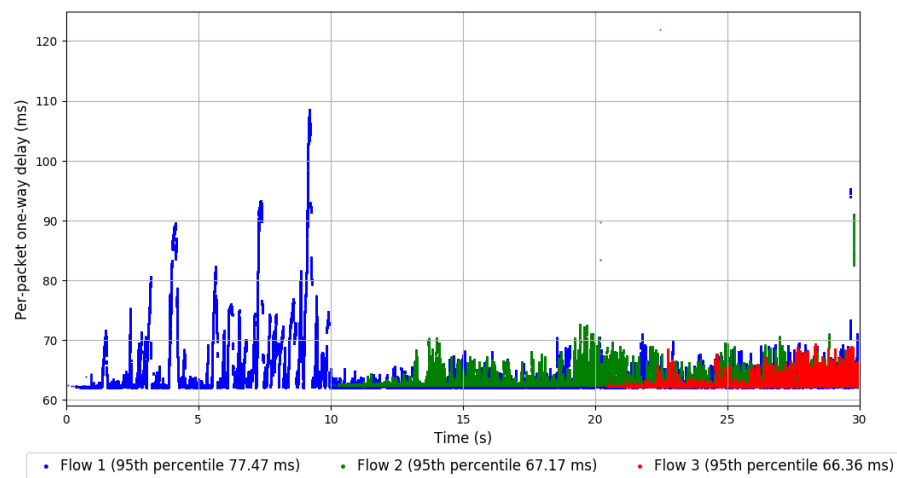
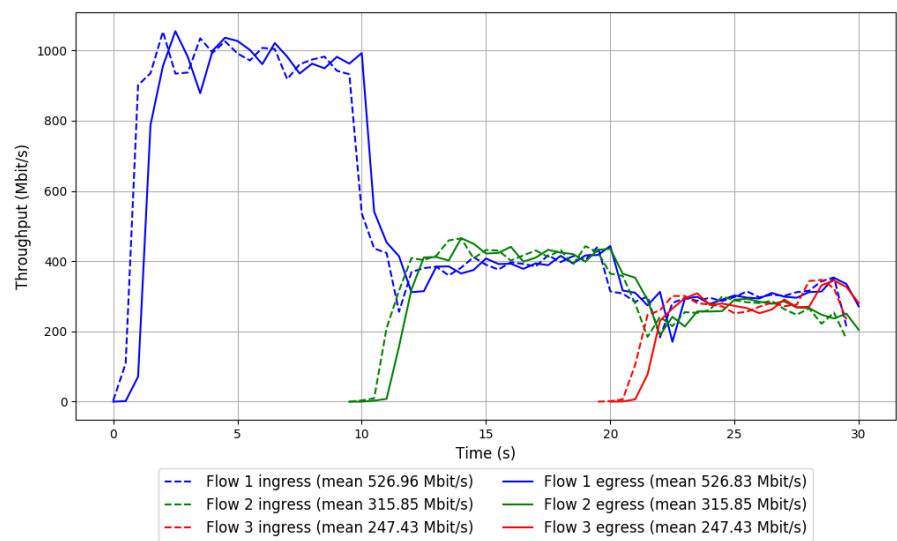
Run 3: Statistics of FillP-Sheep

Start at: 2019-01-25 07:00:02  
End at: 2019-01-25 07:00:32  
Local clock offset: -0.058 ms  
Remote clock offset: -0.697 ms

# Below is generated by plot.py at 2019-01-25 09:39:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 819.72 Mbit/s  
95th percentile per-packet one-way delay: 74.560 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 526.83 Mbit/s  
95th percentile per-packet one-way delay: 77.468 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 315.85 Mbit/s  
95th percentile per-packet one-way delay: 67.168 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 247.43 Mbit/s  
95th percentile per-packet one-way delay: 66.365 ms  
Loss rate: 0.00%



Run 3: Report of FillP-Sheep — Data Link





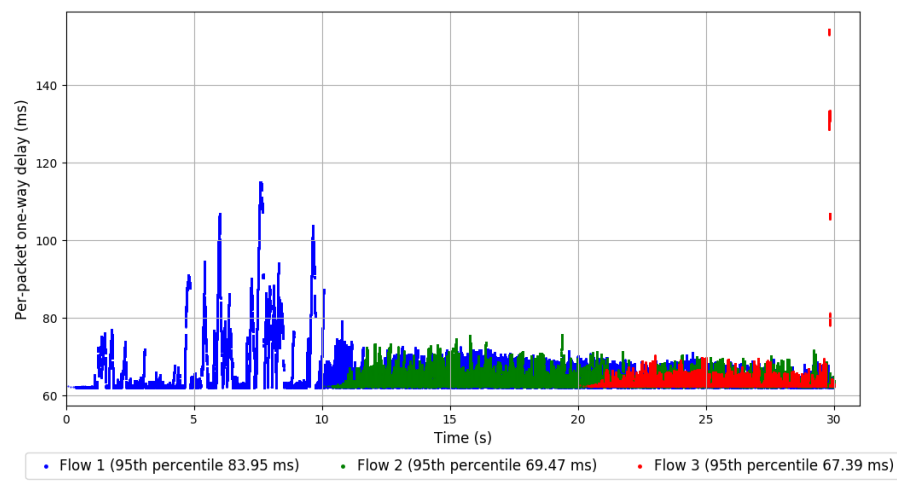
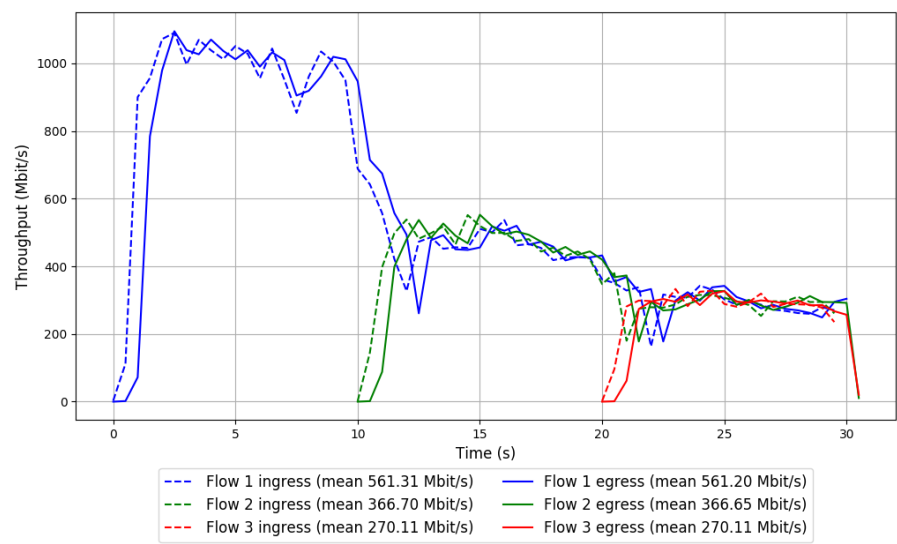
Run 4: Statistics of FillP-Sheep

Start at: 2019-01-25 07:37:11  
End at: 2019-01-25 07:37:41  
Local clock offset: -0.048 ms  
Remote clock offset: -0.725 ms

# Below is generated by plot.py at 2019-01-25 09:39:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 894.40 Mbit/s  
95th percentile per-packet one-way delay: 78.810 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 561.20 Mbit/s  
95th percentile per-packet one-way delay: 83.950 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 366.65 Mbit/s  
95th percentile per-packet one-way delay: 69.471 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 270.11 Mbit/s  
95th percentile per-packet one-way delay: 67.390 ms  
Loss rate: 0.00%



Run 4: Report of FillP-Sheep — Data Link





Run 5: Statistics of FillP-Sheep

Start at: 2019-01-25 08:14:29

End at: 2019-01-25 08:14:59

Local clock offset: -0.076 ms

Remote clock offset: 0.162 ms

# Below is generated by plot.py at 2019-01-25 09:55:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 841.78 Mbit/s

95th percentile per-packet one-way delay: 102.230 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 582.67 Mbit/s

95th percentile per-packet one-way delay: 103.802 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 377.41 Mbit/s

95th percentile per-packet one-way delay: 91.372 ms

Loss rate: 0.01%

-- Flow 3:

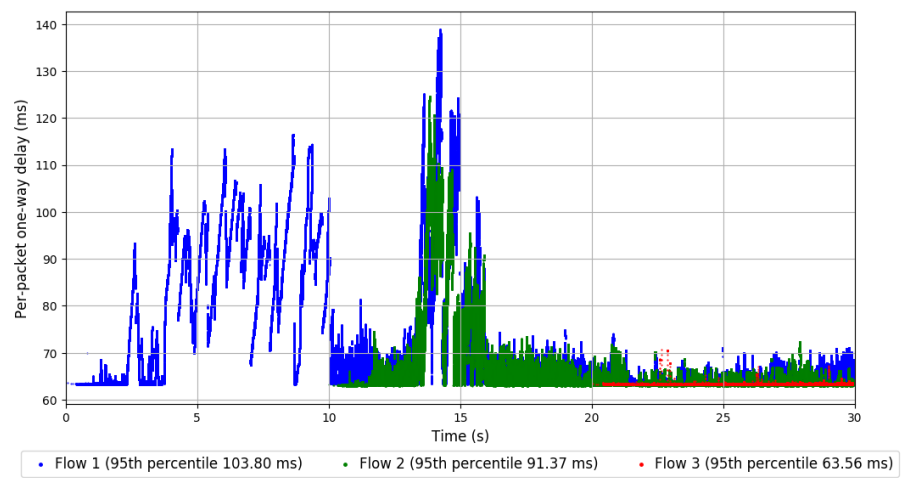
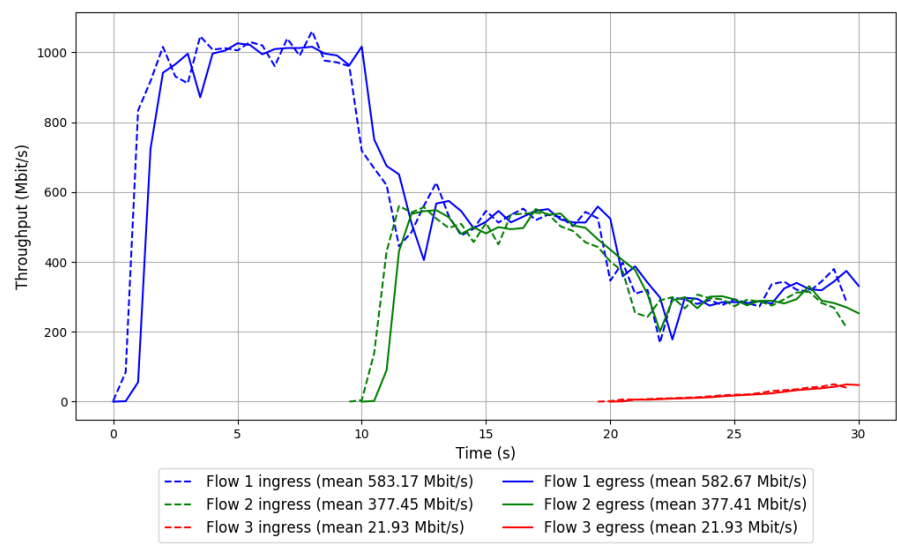
Average throughput: 21.93 Mbit/s

95th percentile per-packet one-way delay: 63.558 ms

Loss rate: 0.03%



Run 5: Report of FillP-Sheep — Data Link





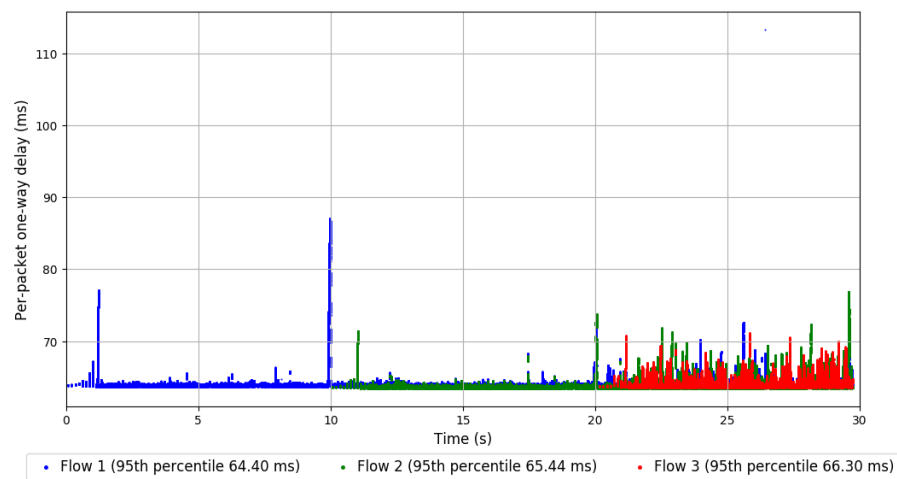
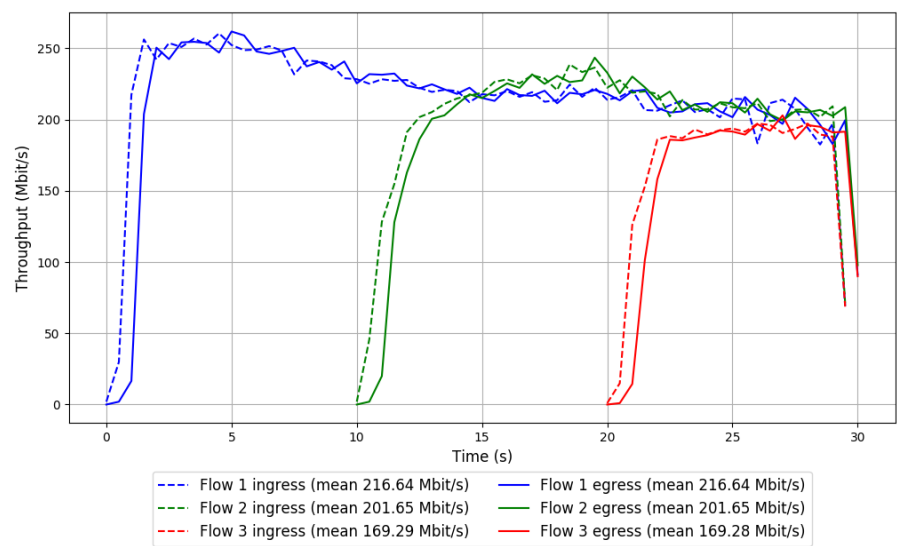
```
Run 1: Statistics of Indigo

Start at: 2019-01-25 05:31:51
End at: 2019-01-25 05:32:21
Local clock offset: 0.0 ms
Remote clock offset: 0.322 ms

# Below is generated by plot.py at 2019-01-25 09:55:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 404.88 Mbit/s
95th percentile per-packet one-way delay: 65.095 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 216.64 Mbit/s
95th percentile per-packet one-way delay: 64.398 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 201.65 Mbit/s
95th percentile per-packet one-way delay: 65.442 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 169.28 Mbit/s
95th percentile per-packet one-way delay: 66.304 ms
Loss rate: 0.00%
```



Run 1: Report of Indigo — Data Link





Run 2: Statistics of Indigo

Start at: 2019-01-25 06:09:15

End at: 2019-01-25 06:09:45

Local clock offset: -0.067 ms

Remote clock offset: 0.734 ms

# Below is generated by plot.py at 2019-01-25 09:55:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 425.01 Mbit/s

95th percentile per-packet one-way delay: 66.048 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 217.73 Mbit/s

95th percentile per-packet one-way delay: 65.325 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 213.95 Mbit/s

95th percentile per-packet one-way delay: 66.124 ms

Loss rate: 0.00%

-- Flow 3:

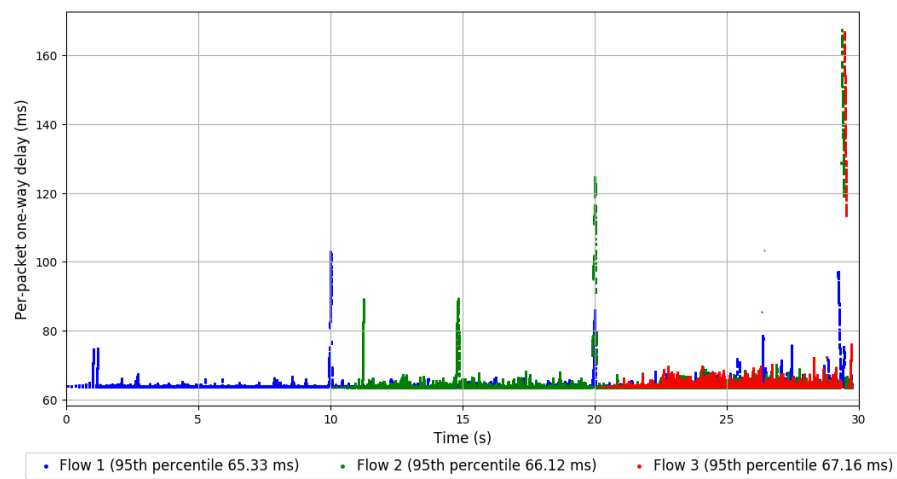
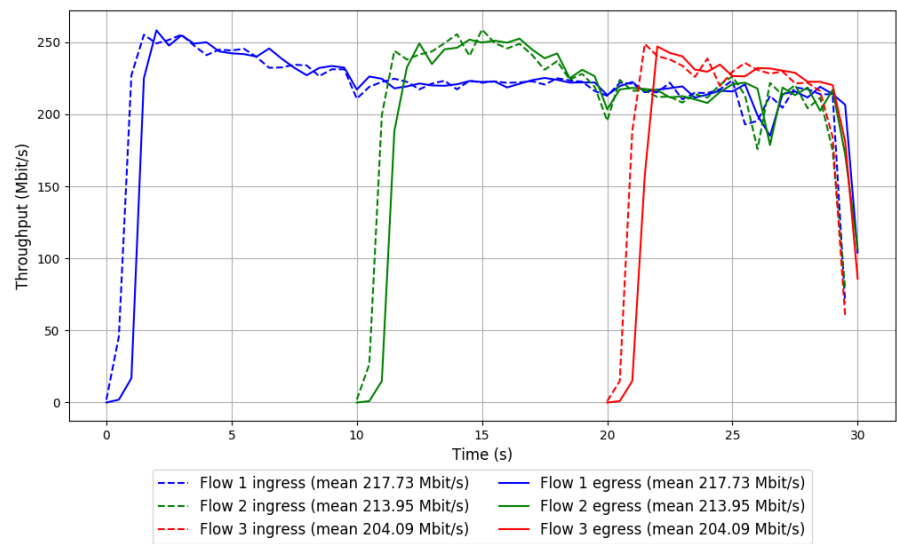
Average throughput: 204.09 Mbit/s

95th percentile per-packet one-way delay: 67.156 ms

Loss rate: 0.00%



Run 2: Report of Indigo — Data Link





Run 3: Statistics of Indigo

Start at: 2019-01-25 06:46:42

End at: 2019-01-25 06:47:12

Local clock offset: -0.08 ms

Remote clock offset: 0.911 ms

# Below is generated by plot.py at 2019-01-25 09:55:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 423.90 Mbit/s

95th percentile per-packet one-way delay: 65.784 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 220.11 Mbit/s

95th percentile per-packet one-way delay: 65.360 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 221.65 Mbit/s

95th percentile per-packet one-way delay: 65.861 ms

Loss rate: 0.00%

-- Flow 3:

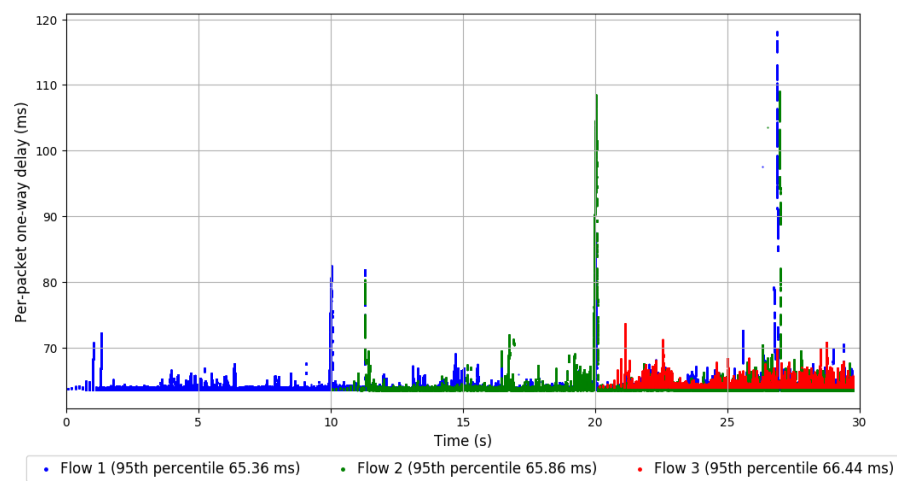
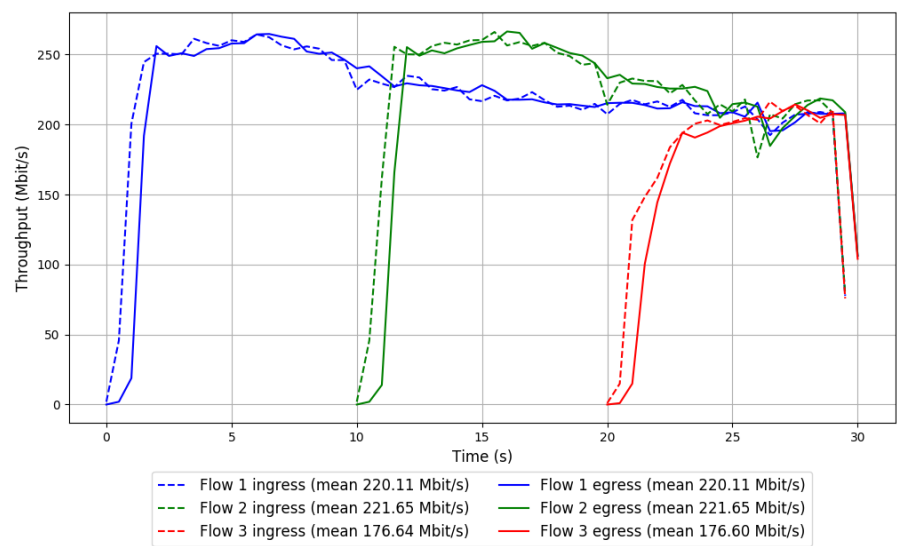
Average throughput: 176.60 Mbit/s

95th percentile per-packet one-way delay: 66.441 ms

Loss rate: 0.02%



Run 3: Report of Indigo — Data Link





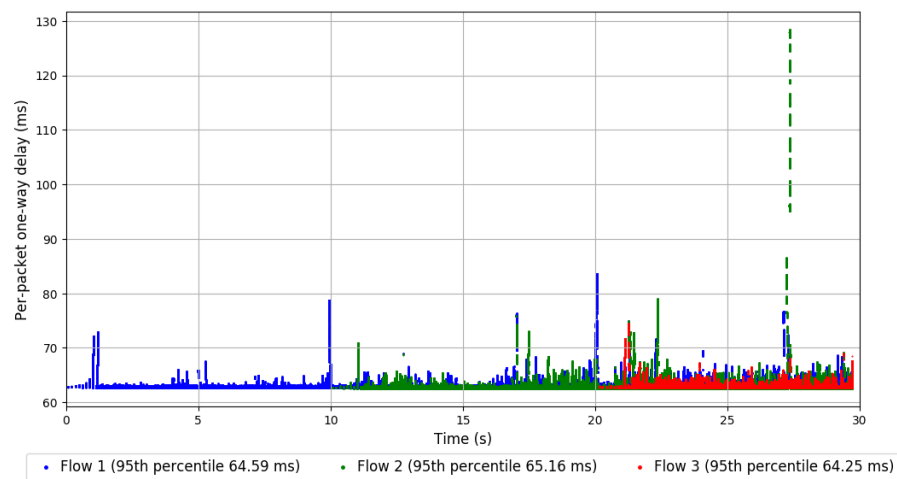
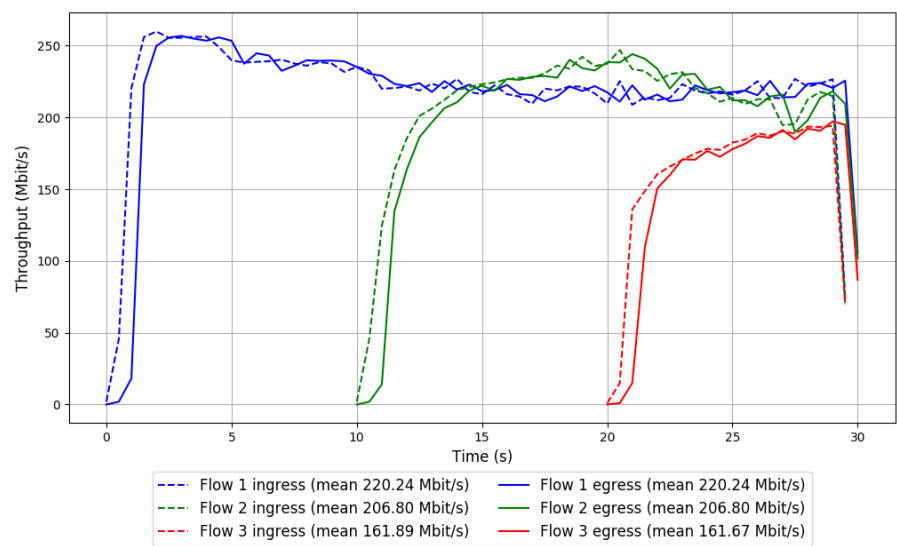
Run 4: Statistics of Indigo

Start at: 2019-01-25 07:23:46  
End at: 2019-01-25 07:24:16  
Local clock offset: -0.06 ms  
Remote clock offset: -0.173 ms

# Below is generated by plot.py at 2019-01-25 09:55:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 409.39 Mbit/s  
95th percentile per-packet one-way delay: 64.736 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 220.24 Mbit/s  
95th percentile per-packet one-way delay: 64.591 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 206.80 Mbit/s  
95th percentile per-packet one-way delay: 65.156 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 161.67 Mbit/s  
95th percentile per-packet one-way delay: 64.251 ms  
Loss rate: 0.12%



Run 4: Report of Indigo — Data Link





Run 5: Statistics of Indigo

Start at: 2019-01-25 08:01:06

End at: 2019-01-25 08:01:36

Local clock offset: -0.094 ms

Remote clock offset: -0.24 ms

# Below is generated by plot.py at 2019-01-25 09:55:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 426.98 Mbit/s

95th percentile per-packet one-way delay: 64.502 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 225.98 Mbit/s

95th percentile per-packet one-way delay: 64.454 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 212.35 Mbit/s

95th percentile per-packet one-way delay: 64.626 ms

Loss rate: 0.01%

-- Flow 3:

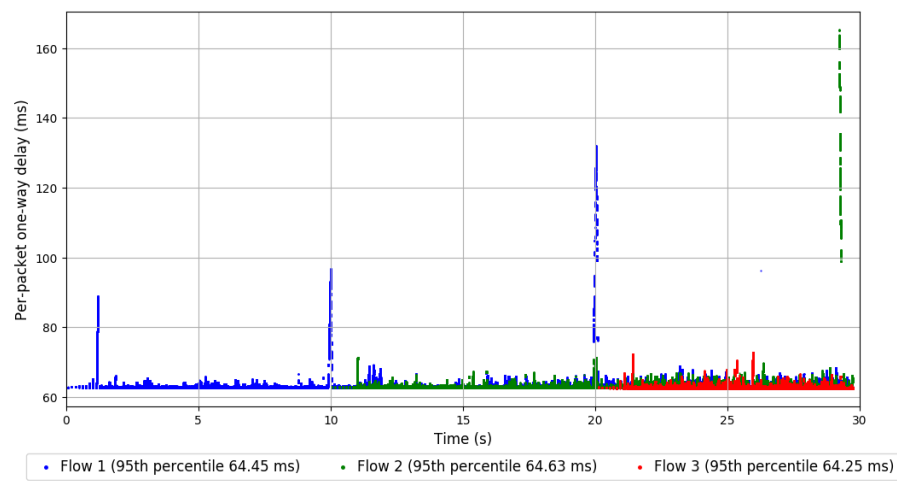
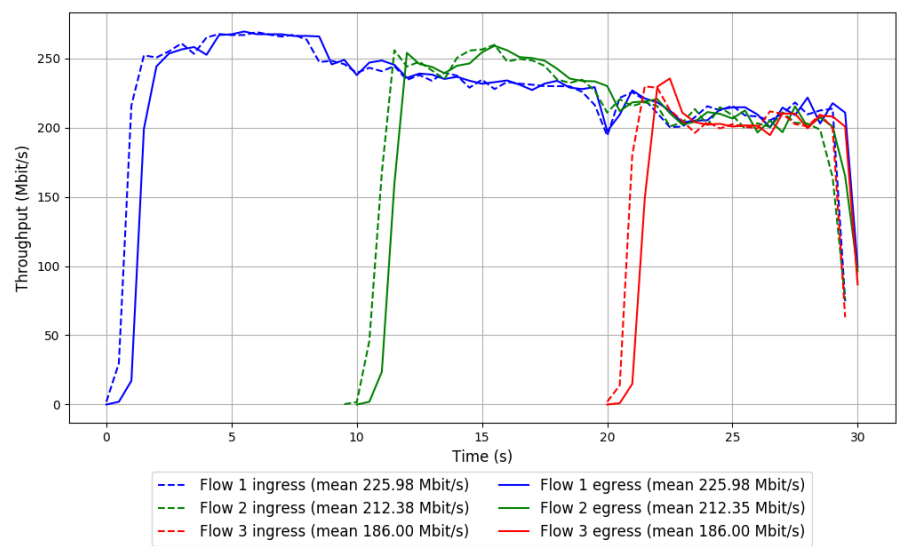
Average throughput: 186.00 Mbit/s

95th percentile per-packet one-way delay: 64.251 ms

Loss rate: 0.00%



Run 5: Report of Indigo — Data Link





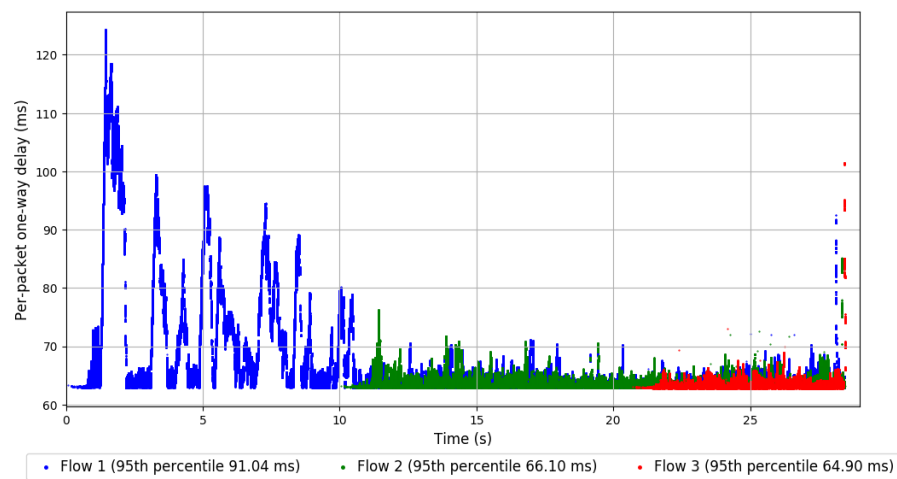
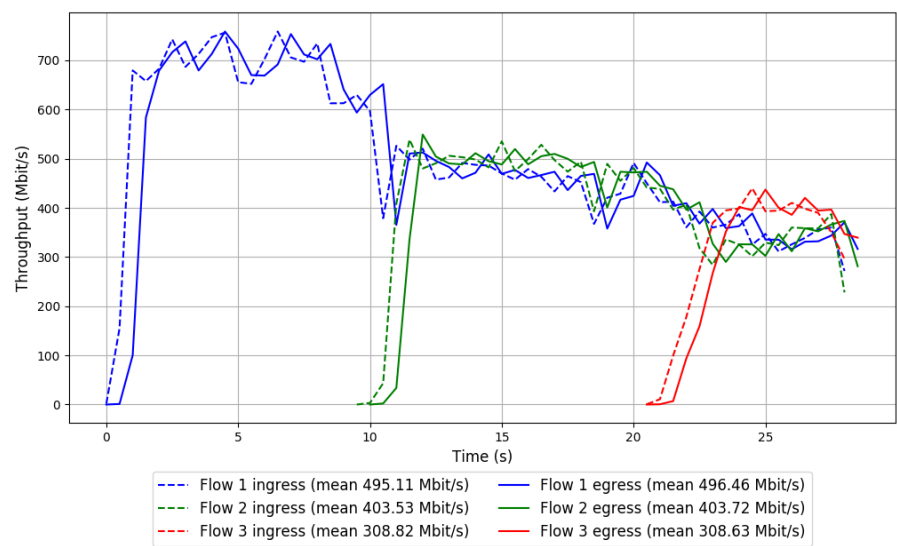
Run 1: Statistics of Indigo-MusesC3

Start at: 2019-01-25 05:24:46  
End at: 2019-01-25 05:25:16  
Local clock offset: 0.018 ms  
Remote clock offset: -0.328 ms

# Below is generated by plot.py at 2019-01-25 09:55:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 842.28 Mbit/s  
95th percentile per-packet one-way delay: 84.051 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 496.46 Mbit/s  
95th percentile per-packet one-way delay: 91.043 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 403.72 Mbit/s  
95th percentile per-packet one-way delay: 66.101 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 308.63 Mbit/s  
95th percentile per-packet one-way delay: 64.901 ms  
Loss rate: 0.06%



Run 1: Report of Indigo-MusesC3 — Data Link





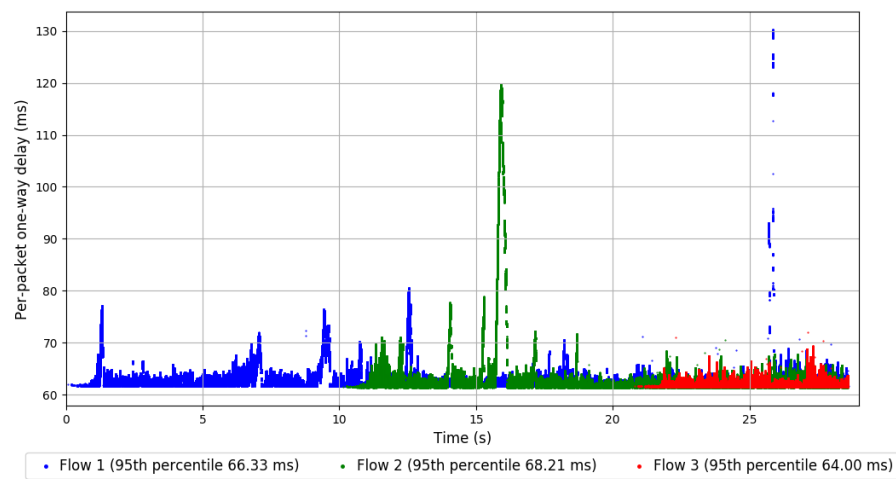
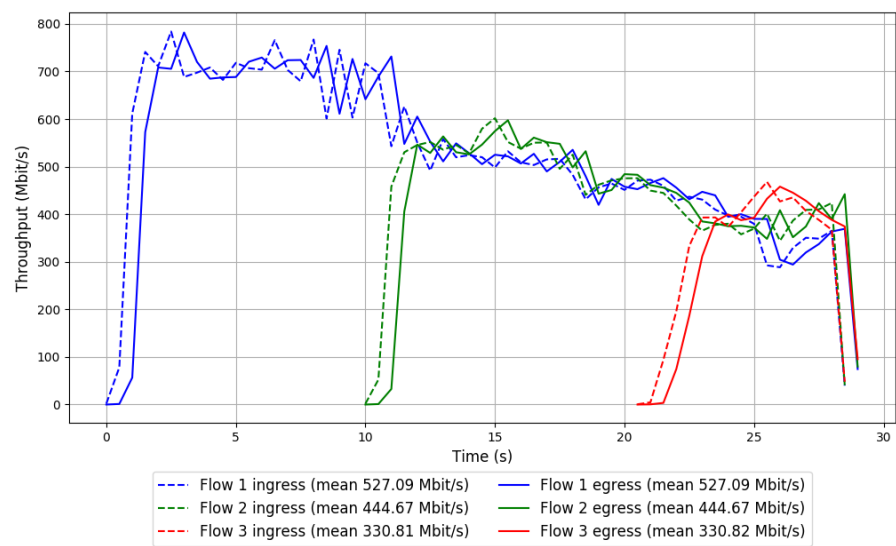
Run 2: Statistics of Indigo-MusesC3

Start at: 2019-01-25 06:02:06  
End at: 2019-01-25 06:02:36  
Local clock offset: -0.052 ms  
Remote clock offset: -1.257 ms

# Below is generated by plot.py at 2019-01-25 09:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 905.36 Mbit/s  
95th percentile per-packet one-way delay: 66.442 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 527.09 Mbit/s  
95th percentile per-packet one-way delay: 66.328 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 444.67 Mbit/s  
95th percentile per-packet one-way delay: 68.212 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 330.82 Mbit/s  
95th percentile per-packet one-way delay: 63.999 ms  
Loss rate: 0.00%



Run 2: Report of Indigo-MusesC3 — Data Link





Run 3: Statistics of Indigo-MusesC3

Start at: 2019-01-25 06:39:38

End at: 2019-01-25 06:40:08

Local clock offset: -0.064 ms

Remote clock offset: 0.236 ms

# Below is generated by plot.py at 2019-01-25 10:05:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 849.04 Mbit/s

95th percentile per-packet one-way delay: 73.514 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 491.41 Mbit/s

95th percentile per-packet one-way delay: 71.444 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 423.00 Mbit/s

95th percentile per-packet one-way delay: 81.187 ms

Loss rate: 0.00%

-- Flow 3:

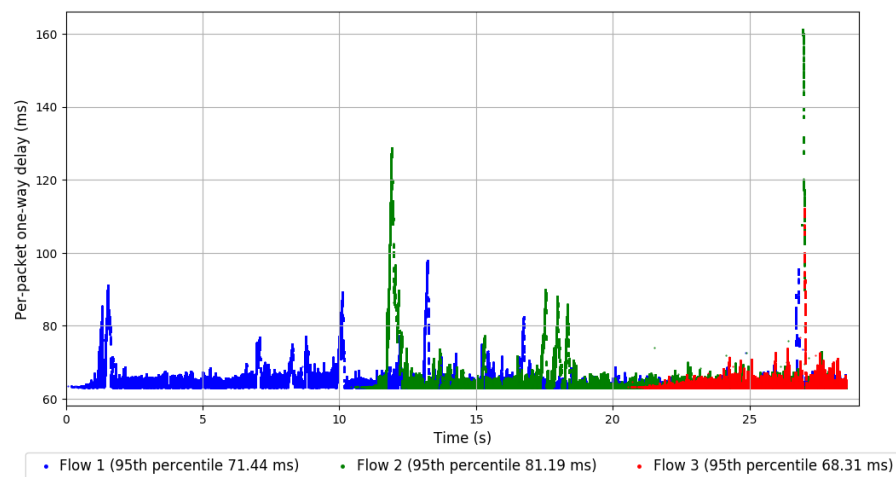
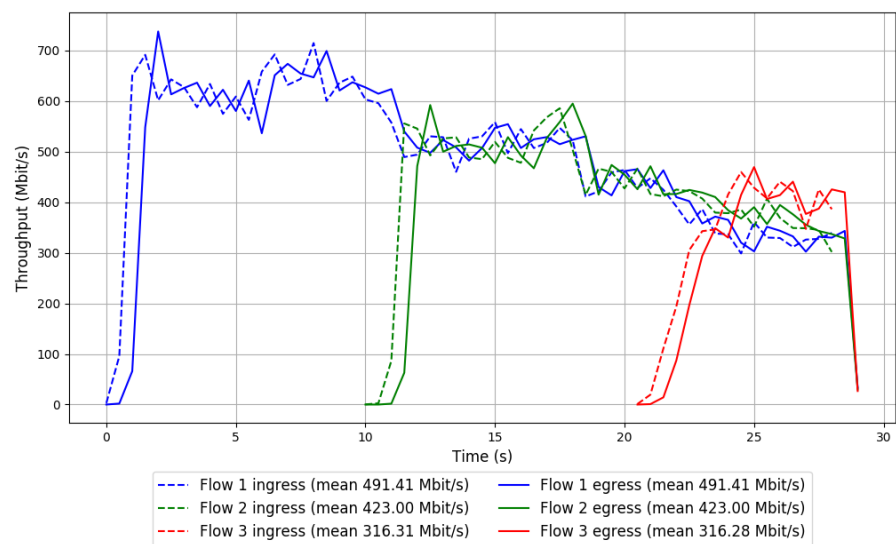
Average throughput: 316.28 Mbit/s

95th percentile per-packet one-way delay: 68.315 ms

Loss rate: 0.00%



Run 3: Report of Indigo-MusesC3 — Data Link





Run 4: Statistics of Indigo-MusesC3

Start at: 2019-01-25 07:16:44

End at: 2019-01-25 07:17:14

Local clock offset: -0.036 ms

Remote clock offset: 0.592 ms

# Below is generated by plot.py at 2019-01-25 10:08:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 843.89 Mbit/s

95th percentile per-packet one-way delay: 78.389 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 492.25 Mbit/s

95th percentile per-packet one-way delay: 73.907 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 406.82 Mbit/s

95th percentile per-packet one-way delay: 89.126 ms

Loss rate: 0.00%

-- Flow 3:

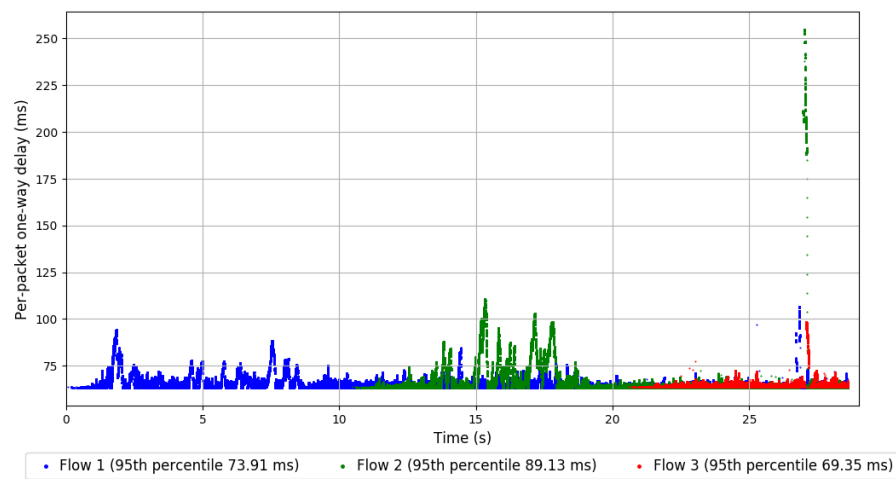
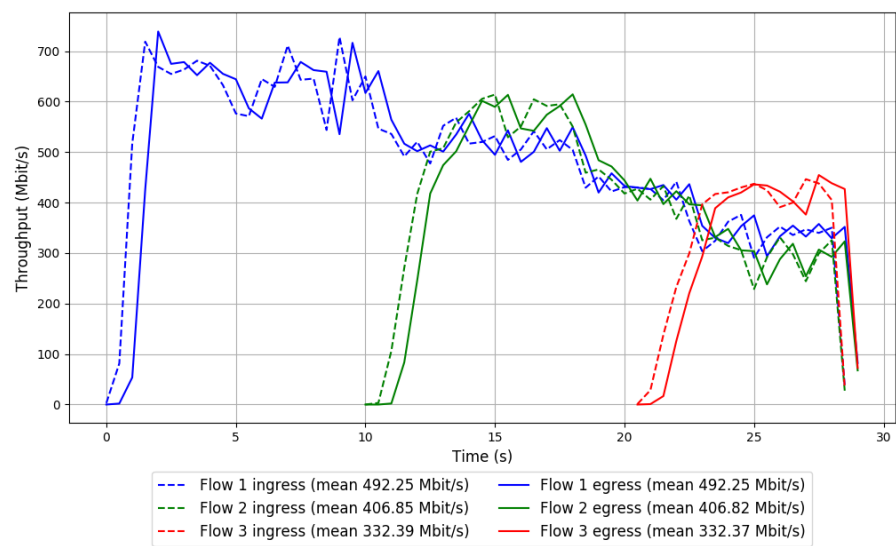
Average throughput: 332.37 Mbit/s

95th percentile per-packet one-way delay: 69.347 ms

Loss rate: 0.00%



Run 4: Report of Indigo-MusesC3 — Data Link





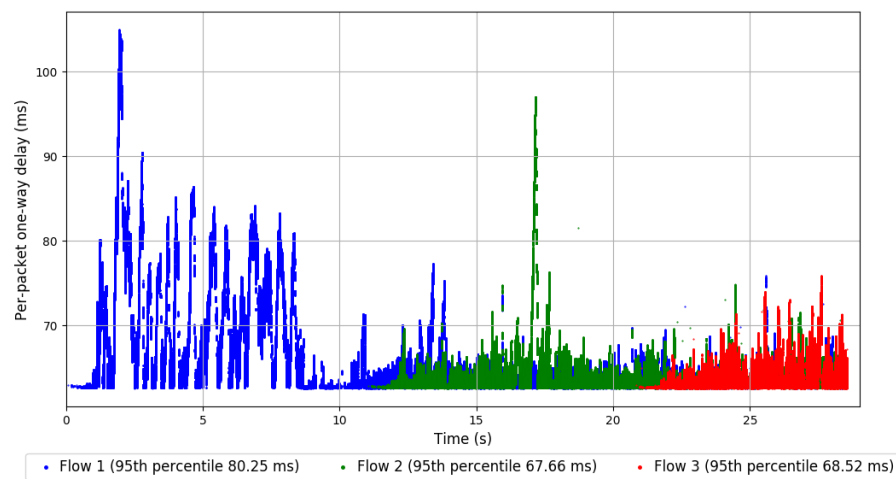
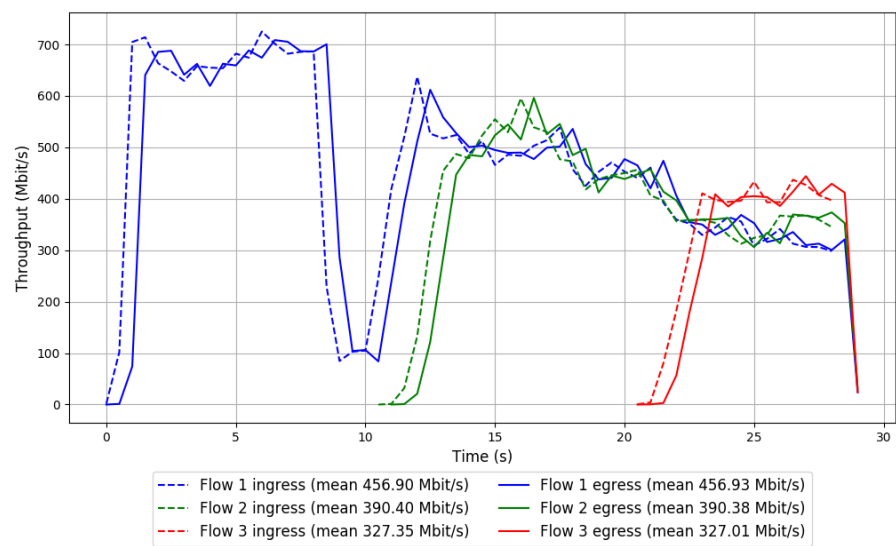
Run 5: Statistics of Indigo-MusesC3

Start at: 2019-01-25 07:54:05  
End at: 2019-01-25 07:54:35  
Local clock offset: -0.062 ms  
Remote clock offset: -0.178 ms

# Below is generated by plot.py at 2019-01-25 10:08:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 785.39 Mbit/s  
95th percentile per-packet one-way delay: 78.255 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 456.93 Mbit/s  
95th percentile per-packet one-way delay: 80.245 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 390.38 Mbit/s  
95th percentile per-packet one-way delay: 67.657 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 327.01 Mbit/s  
95th percentile per-packet one-way delay: 68.523 ms  
Loss rate: 0.09%



Run 5: Report of Indigo-MusesC3 — Data Link





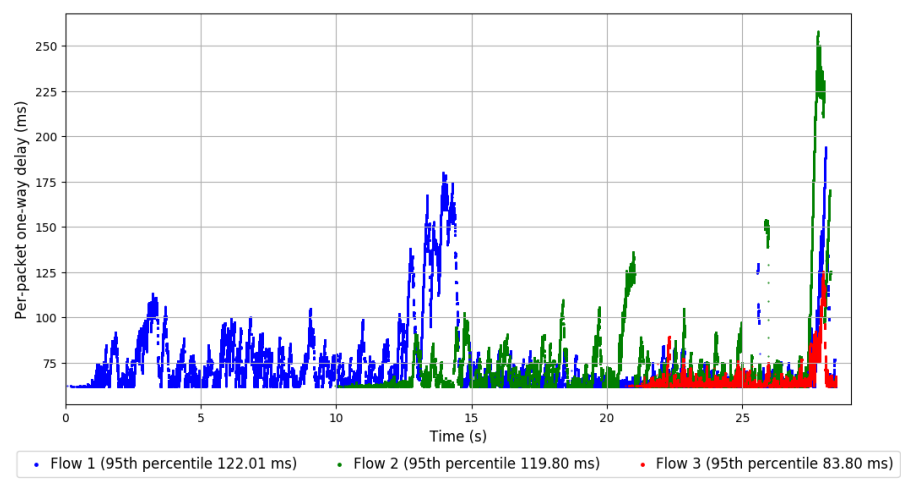
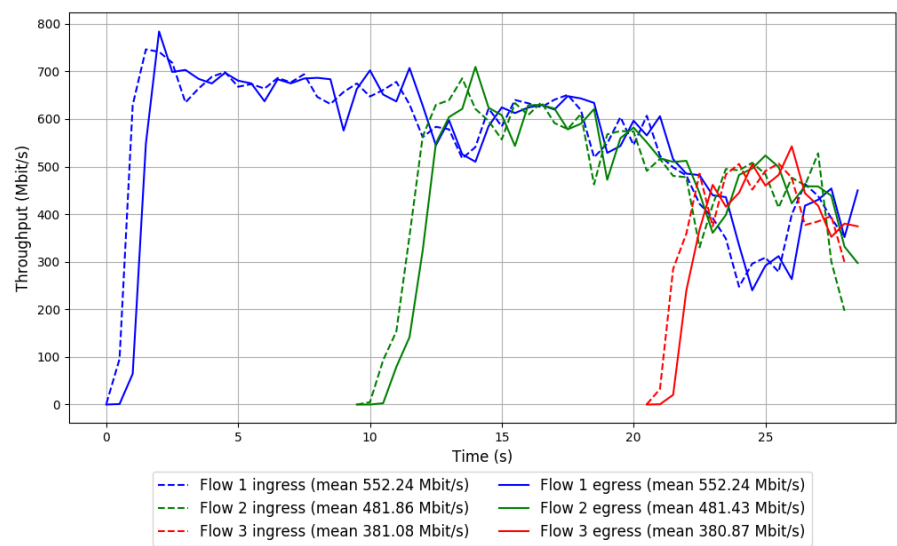
Run 1: Statistics of Indigo-MusesC5

Start at: 2019-01-25 05:38:00  
End at: 2019-01-25 05:38:30  
Local clock offset: -0.005 ms  
Remote clock offset: -1.035 ms

# Below is generated by plot.py at 2019-01-25 10:10:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 969.49 Mbit/s  
95th percentile per-packet one-way delay: 115.061 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 552.24 Mbit/s  
95th percentile per-packet one-way delay: 122.010 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 481.43 Mbit/s  
95th percentile per-packet one-way delay: 119.798 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 380.87 Mbit/s  
95th percentile per-packet one-way delay: 83.804 ms  
Loss rate: 0.00%



Run 1: Report of Indigo-MusesC5 — Data Link





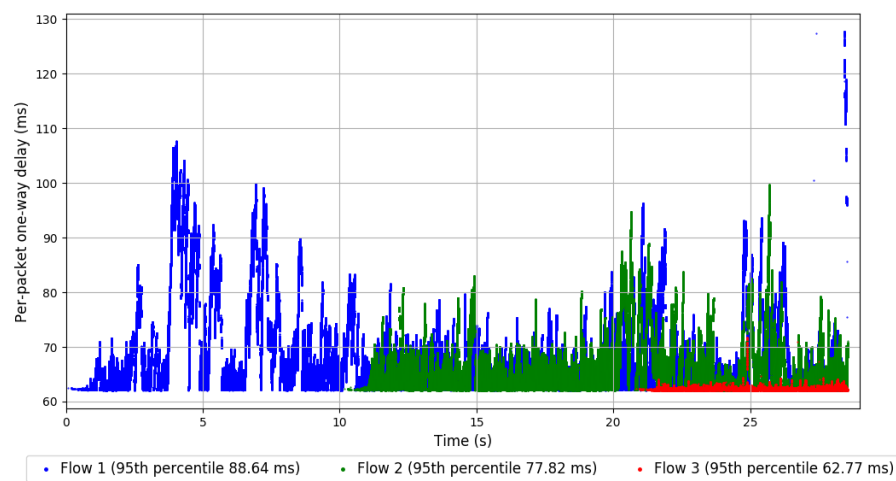
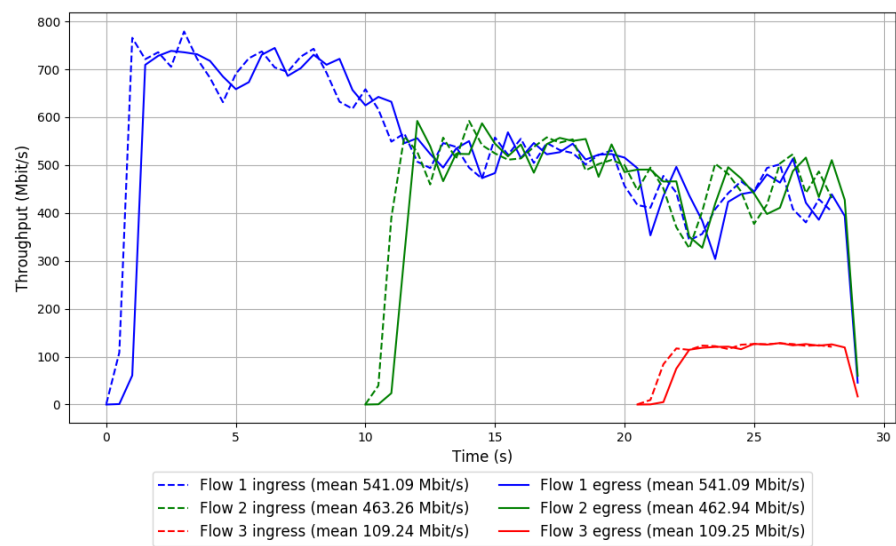
Run 2: Statistics of Indigo-MusesC5

Start at: 2019-01-25 06:15:24  
End at: 2019-01-25 06:15:54  
Local clock offset: -0.066 ms  
Remote clock offset: -0.557 ms

# Below is generated by plot.py at 2019-01-25 10:10:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 869.21 Mbit/s  
95th percentile per-packet one-way delay: 84.631 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 541.09 Mbit/s  
95th percentile per-packet one-way delay: 88.636 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 462.94 Mbit/s  
95th percentile per-packet one-way delay: 77.823 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 109.25 Mbit/s  
95th percentile per-packet one-way delay: 62.772 ms  
Loss rate: 0.00%



Run 2: Report of Indigo-MusesC5 — Data Link





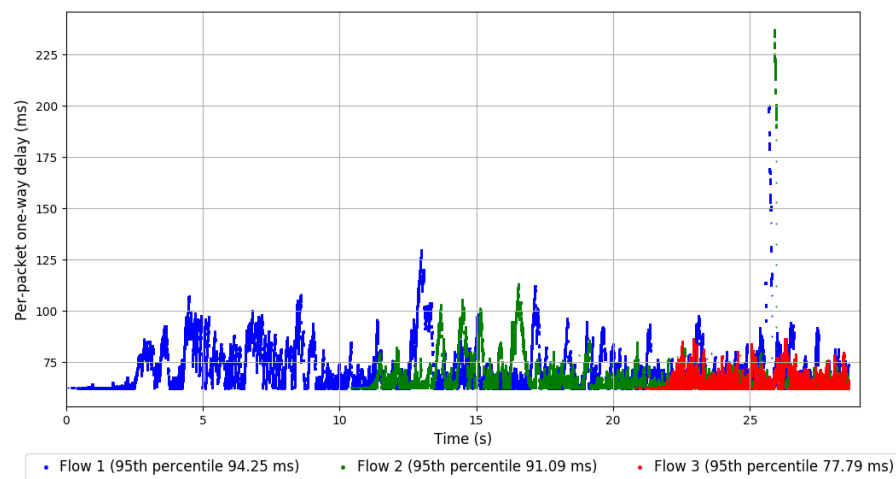
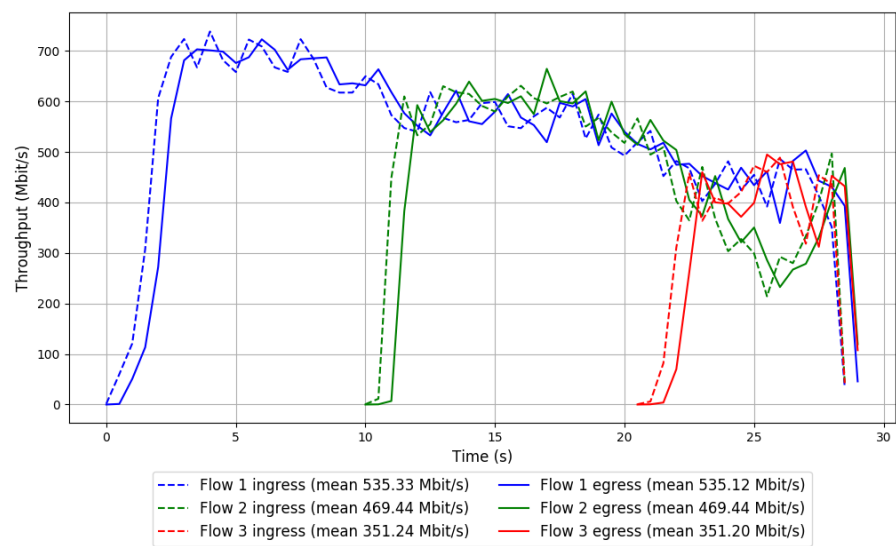
Run 3: Statistics of Indigo-MusesC5

Start at: 2019-01-25 06:52:38  
End at: 2019-01-25 06:53:08  
Local clock offset: -0.056 ms  
Remote clock offset: -0.513 ms

# Below is generated by plot.py at 2019-01-25 10:11:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 932.51 Mbit/s  
95th percentile per-packet one-way delay: 92.720 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 535.12 Mbit/s  
95th percentile per-packet one-way delay: 94.247 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 469.44 Mbit/s  
95th percentile per-packet one-way delay: 91.090 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 351.20 Mbit/s  
95th percentile per-packet one-way delay: 77.792 ms  
Loss rate: 0.00%



Run 3: Report of Indigo-MusesC5 — Data Link





Run 4: Statistics of Indigo-MusesC5

Start at: 2019-01-25 07:29:49

End at: 2019-01-25 07:30:19

Local clock offset: 0.091 ms

Remote clock offset: 0.075 ms

# Below is generated by plot.py at 2019-01-25 10:12:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 936.65 Mbit/s

95th percentile per-packet one-way delay: 107.395 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 538.26 Mbit/s

95th percentile per-packet one-way delay: 109.754 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 474.35 Mbit/s

95th percentile per-packet one-way delay: 97.800 ms

Loss rate: 0.03%

-- Flow 3:

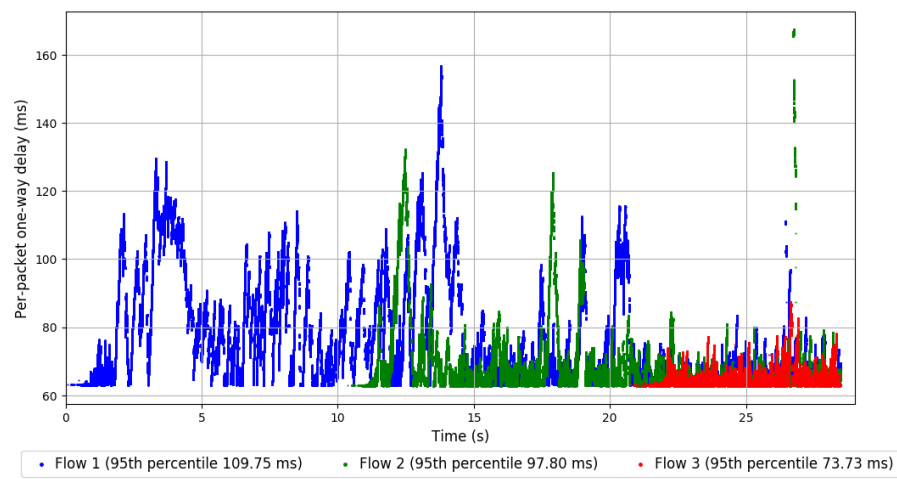
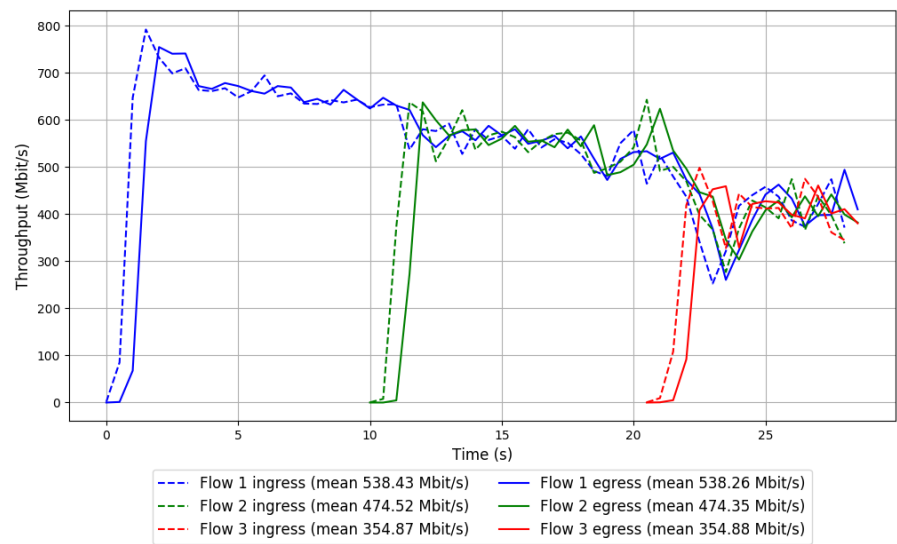
Average throughput: 354.88 Mbit/s

95th percentile per-packet one-way delay: 73.729 ms

Loss rate: 0.00%



Run 4: Report of Indigo-MusesC5 — Data Link





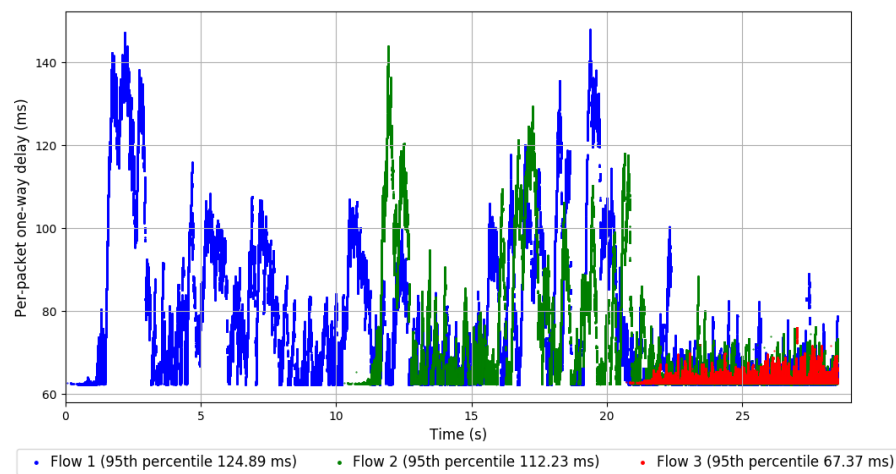
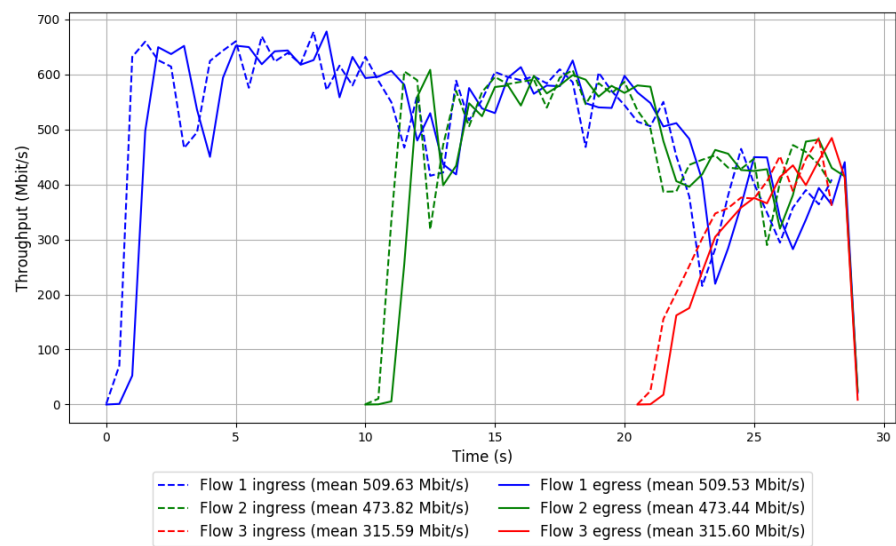
Run 5: Statistics of Indigo-MusesC5

Start at: 2019-01-25 08:07:05  
End at: 2019-01-25 08:07:35  
Local clock offset: -0.07 ms  
Remote clock offset: -0.535 ms

# Below is generated by plot.py at 2019-01-25 10:12:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 899.12 Mbit/s  
95th percentile per-packet one-way delay: 117.357 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 509.53 Mbit/s  
95th percentile per-packet one-way delay: 124.893 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 473.44 Mbit/s  
95th percentile per-packet one-way delay: 112.226 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 315.60 Mbit/s  
95th percentile per-packet one-way delay: 67.370 ms  
Loss rate: 0.00%



Run 5: Report of Indigo-MusesC5 — Data Link





Run 1: Statistics of Indigo-MusesD

Start at: 2019-01-25 05:14:30

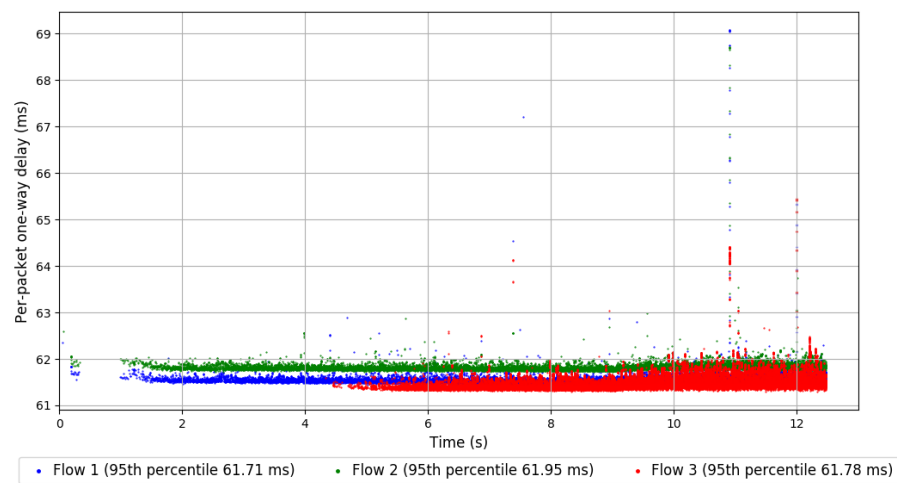
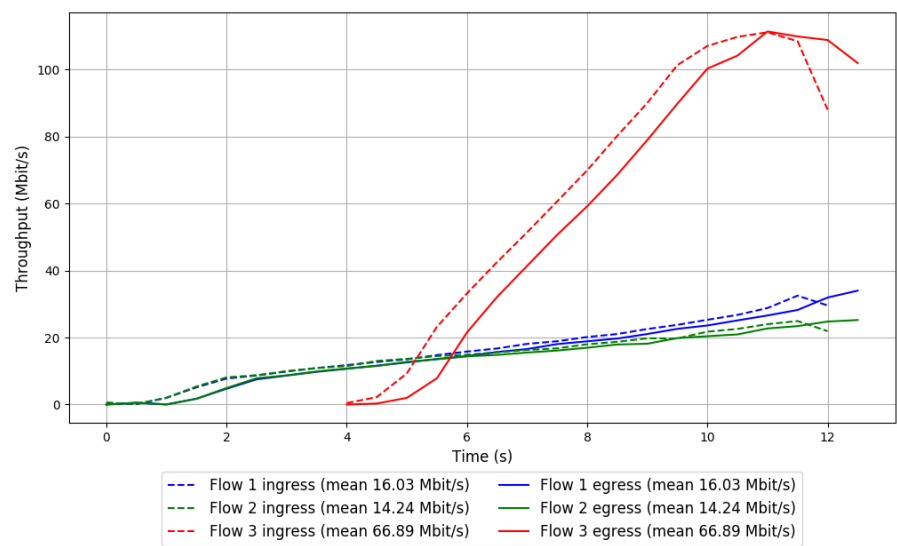
End at: 2019-01-25 05:15:00

Local clock offset: 0.084 ms

Remote clock offset: -1.69 ms



Run 1: Report of Indigo-MusesD — Data Link





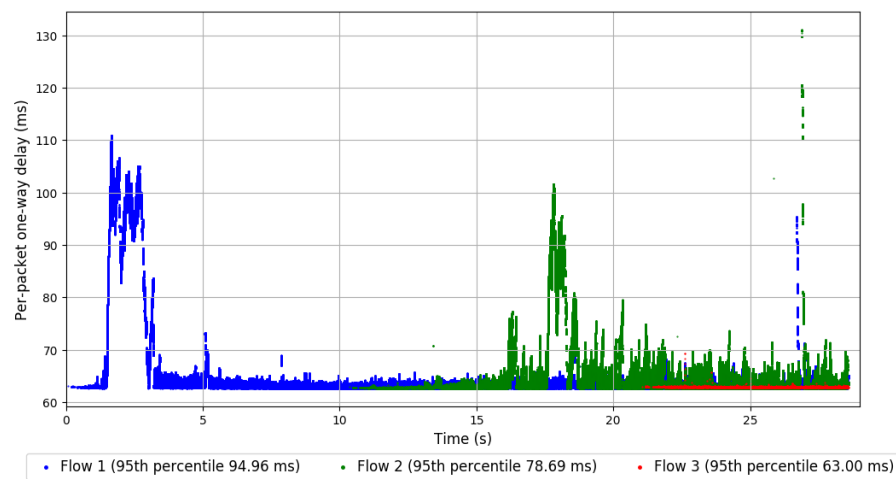
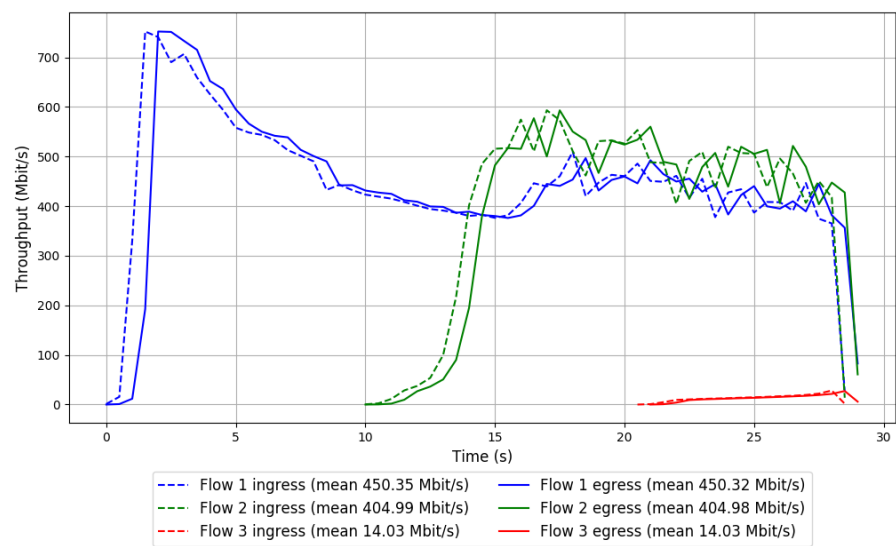
Run 2: Statistics of Indigo-MusesD

Start at: 2019-01-25 05:51:15  
End at: 2019-01-25 05:51:45  
Local clock offset: -0.042 ms  
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2019-01-25 10:18:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 713.01 Mbit/s  
95th percentile per-packet one-way delay: 89.682 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 450.32 Mbit/s  
95th percentile per-packet one-way delay: 94.964 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 404.98 Mbit/s  
95th percentile per-packet one-way delay: 78.690 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 14.03 Mbit/s  
95th percentile per-packet one-way delay: 63.003 ms  
Loss rate: 0.00%



Run 2: Report of Indigo-MusesD — Data Link





Run 3: Statistics of Indigo-MusesD

Start at: 2019-01-25 06:28:36

End at: 2019-01-25 06:29:06

Local clock offset: -0.106 ms

Remote clock offset: -0.42 ms

# Below is generated by plot.py at 2019-01-25 10:21:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 877.34 Mbit/s

95th percentile per-packet one-way delay: 110.319 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 529.02 Mbit/s

95th percentile per-packet one-way delay: 123.325 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 432.79 Mbit/s

95th percentile per-packet one-way delay: 83.311 ms

Loss rate: 0.00%

-- Flow 3:

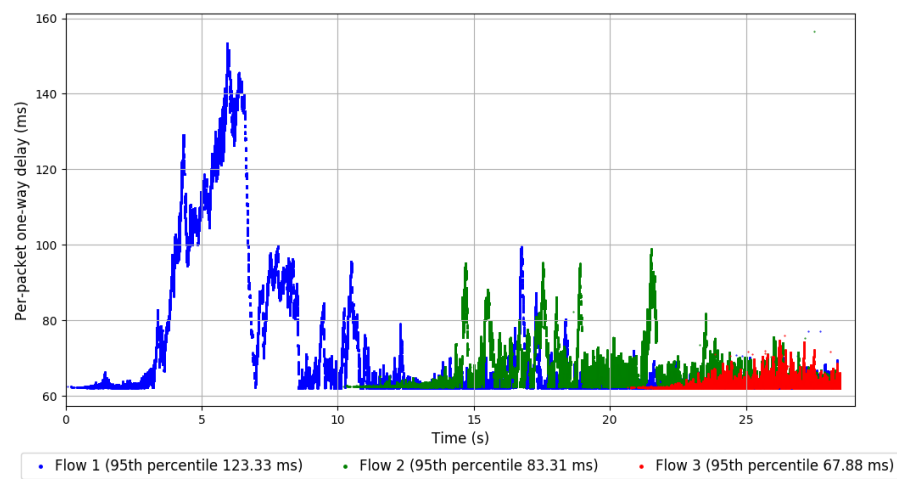
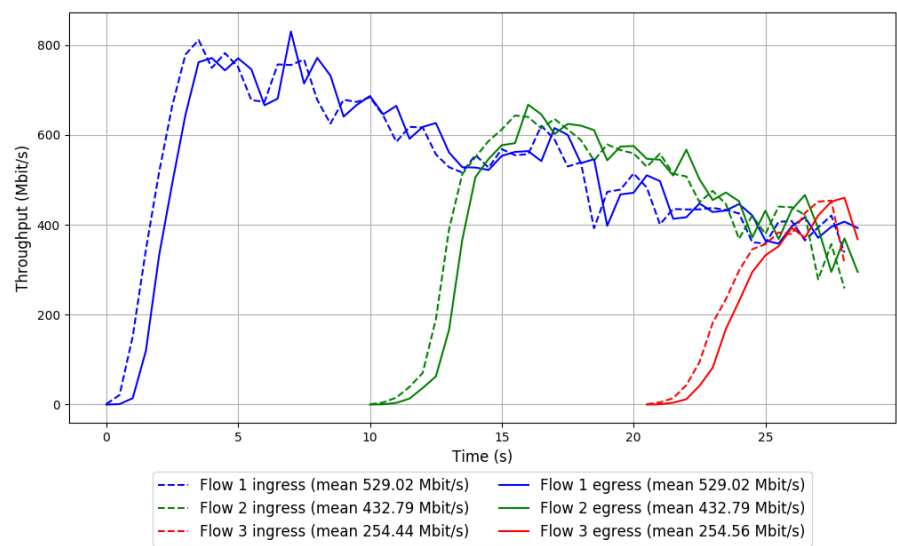
Average throughput: 254.56 Mbit/s

95th percentile per-packet one-way delay: 67.880 ms

Loss rate: 0.00%



Run 3: Report of Indigo-MusesD — Data Link





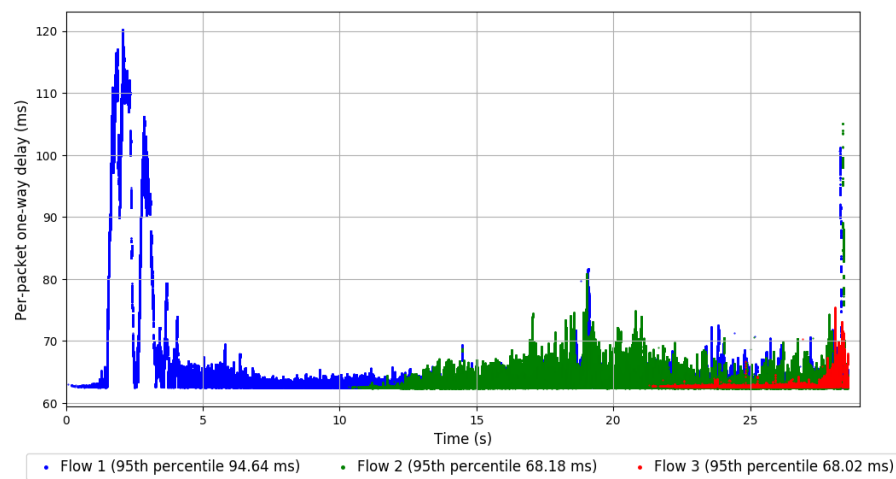
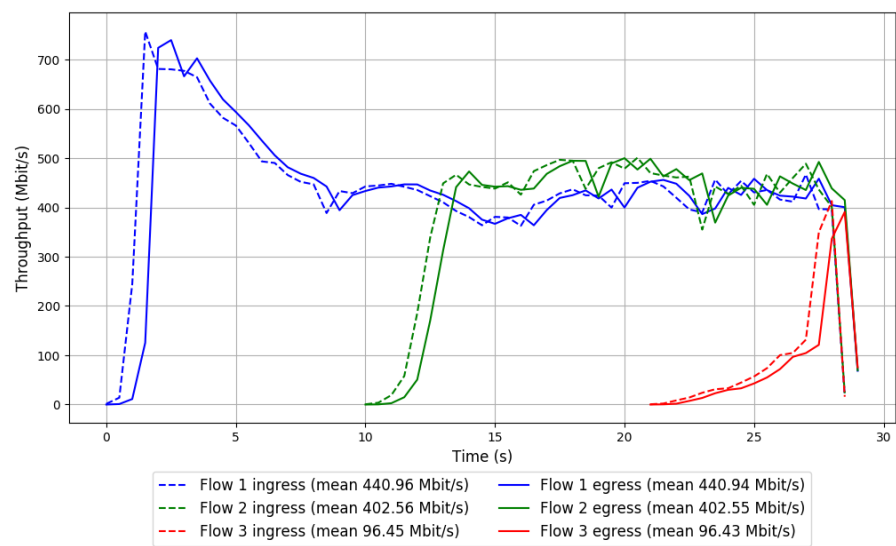
Run 4: Statistics of Indigo-MusesD

Start at: 2019-01-25 07:05:47  
End at: 2019-01-25 07:06:17  
Local clock offset: -0.086 ms  
Remote clock offset: -0.426 ms

# Below is generated by plot.py at 2019-01-25 10:21:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 723.25 Mbit/s  
95th percentile per-packet one-way delay: 77.266 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 440.94 Mbit/s  
95th percentile per-packet one-way delay: 94.643 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 402.55 Mbit/s  
95th percentile per-packet one-way delay: 68.176 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 96.43 Mbit/s  
95th percentile per-packet one-way delay: 68.018 ms  
Loss rate: 0.00%



Run 4: Report of Indigo-MusesD — Data Link





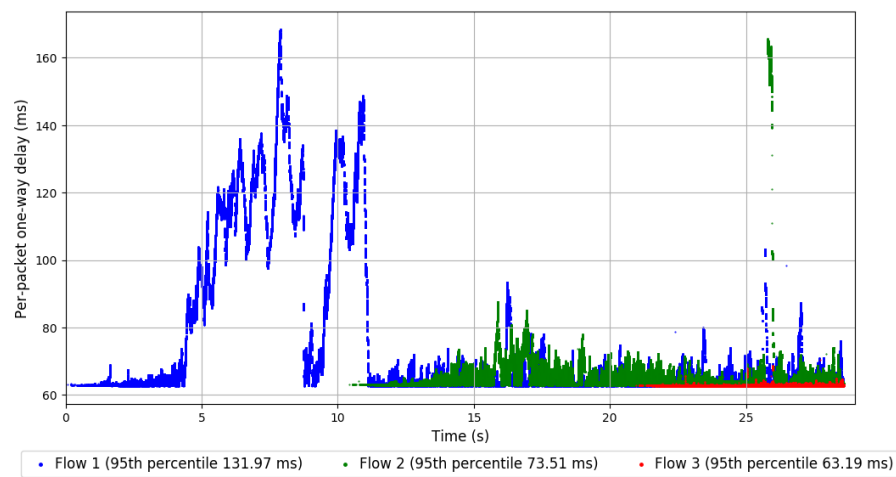
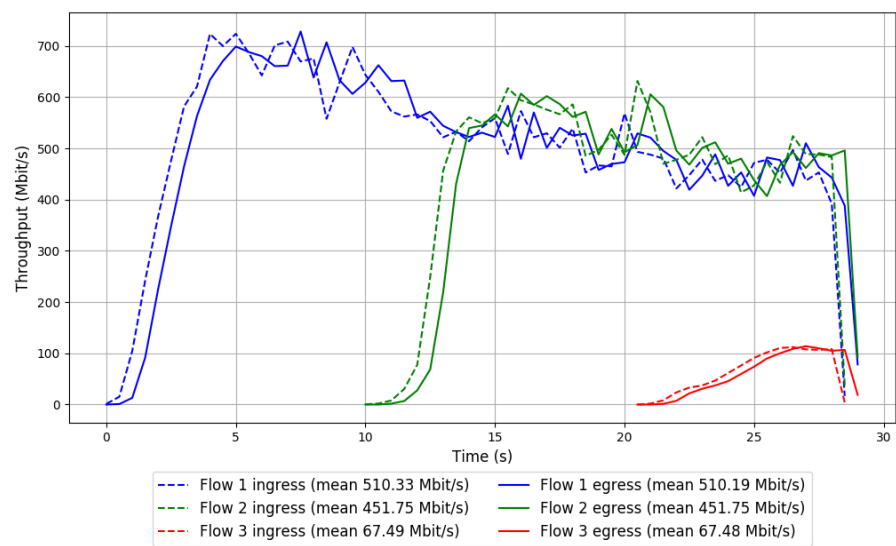
Run 5: Statistics of Indigo-MusesD

Start at: 2019-01-25 07:43:00  
End at: 2019-01-25 07:43:30  
Local clock offset: -0.048 ms  
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-01-25 10:24:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 816.20 Mbit/s  
95th percentile per-packet one-way delay: 127.356 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 510.19 Mbit/s  
95th percentile per-packet one-way delay: 131.968 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 451.75 Mbit/s  
95th percentile per-packet one-way delay: 73.513 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 67.48 Mbit/s  
95th percentile per-packet one-way delay: 63.188 ms  
Loss rate: 0.00%



Run 5: Report of Indigo-MusesD — Data Link





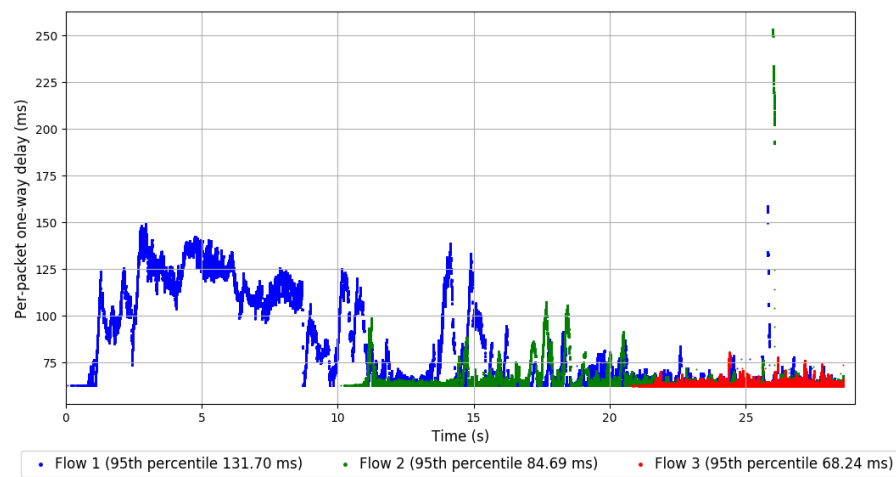
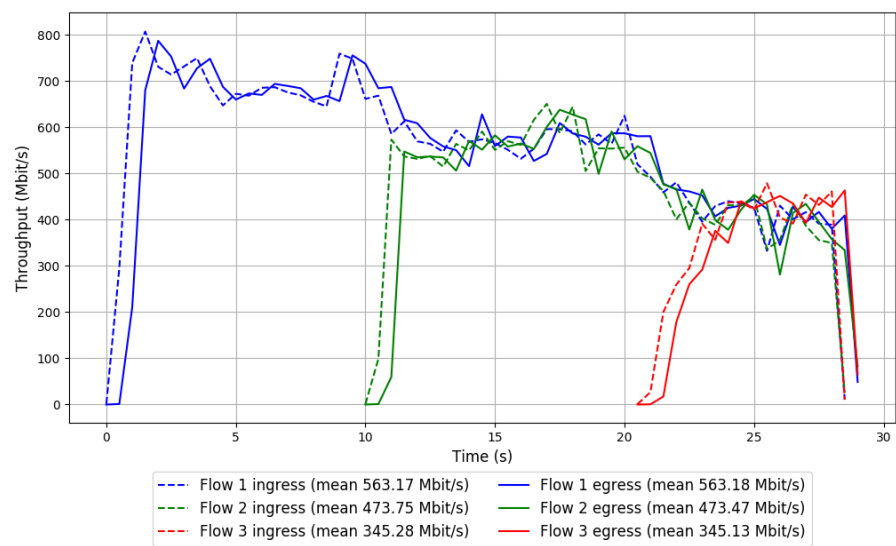
Run 1: Statistics of Indigo-MusesT

Start at: 2019-01-25 05:49:16  
End at: 2019-01-25 05:49:46  
Local clock offset: 0.066 ms  
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2019-01-25 10:27:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 965.32 Mbit/s  
95th percentile per-packet one-way delay: 126.562 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 563.18 Mbit/s  
95th percentile per-packet one-way delay: 131.699 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 473.47 Mbit/s  
95th percentile per-packet one-way delay: 84.694 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 345.13 Mbit/s  
95th percentile per-packet one-way delay: 68.240 ms  
Loss rate: 0.03%



Run 1: Report of Indigo-MusesT — Data Link





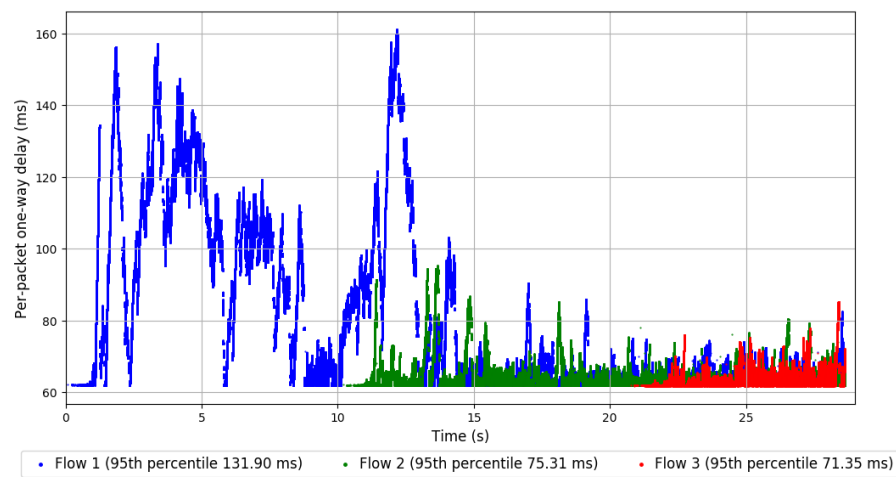
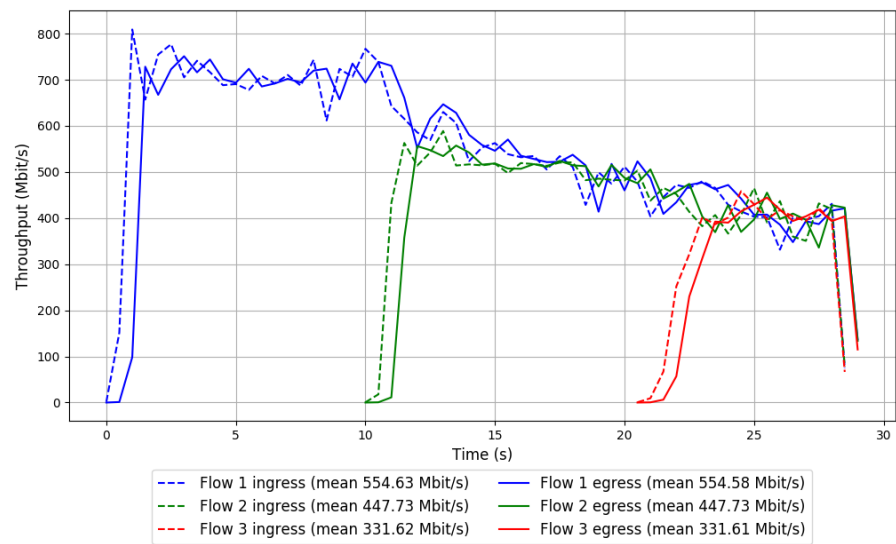
Run 2: Statistics of Indigo-MusesT

Start at: 2019-01-25 06:26:36  
End at: 2019-01-25 06:27:06  
Local clock offset: 0.067 ms  
Remote clock offset: -0.686 ms

# Below is generated by plot.py at 2019-01-25 10:28:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 934.61 Mbit/s  
95th percentile per-packet one-way delay: 124.810 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 554.58 Mbit/s  
95th percentile per-packet one-way delay: 131.896 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 447.73 Mbit/s  
95th percentile per-packet one-way delay: 75.313 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 331.61 Mbit/s  
95th percentile per-packet one-way delay: 71.346 ms  
Loss rate: 0.01%



Run 2: Report of Indigo-MusesT — Data Link





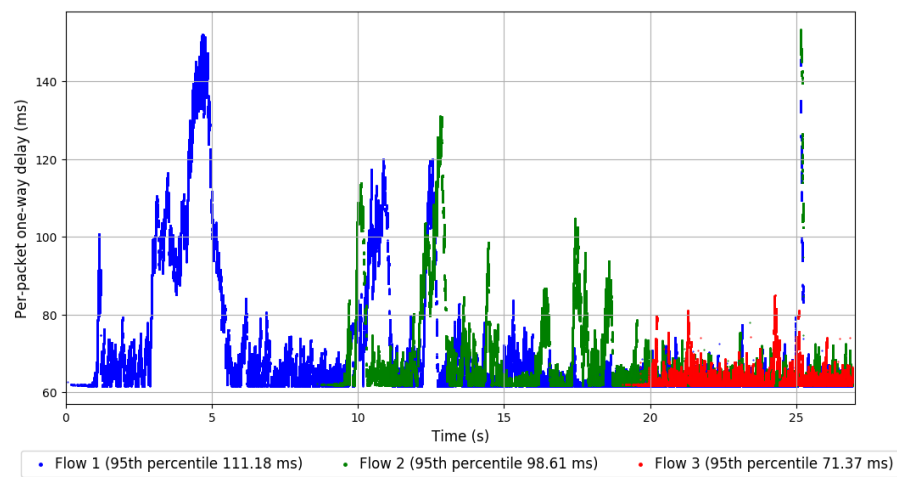
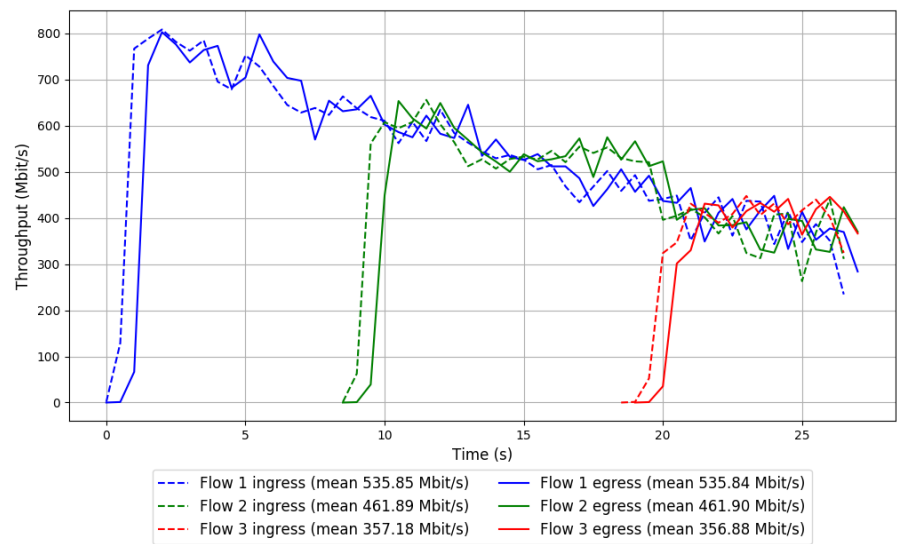
Run 3: Statistics of Indigo-MusesT

Start at: 2019-01-25 07:03:50  
End at: 2019-01-25 07:04:20  
Local clock offset: 0.094 ms  
Remote clock offset: -1.167 ms

# Below is generated by plot.py at 2019-01-25 10:28:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 955.30 Mbit/s  
95th percentile per-packet one-way delay: 106.245 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 535.84 Mbit/s  
95th percentile per-packet one-way delay: 111.176 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 461.90 Mbit/s  
95th percentile per-packet one-way delay: 98.611 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 356.88 Mbit/s  
95th percentile per-packet one-way delay: 71.368 ms  
Loss rate: 0.04%



Run 3: Report of Indigo-MusesT — Data Link





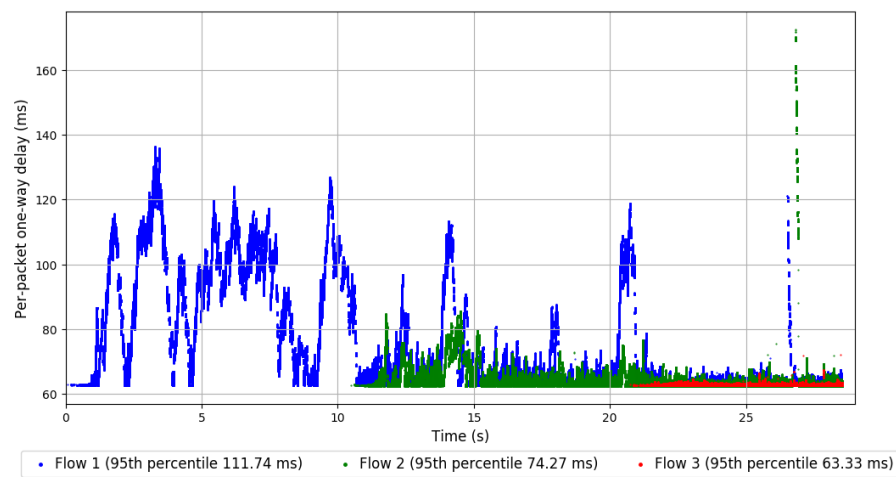
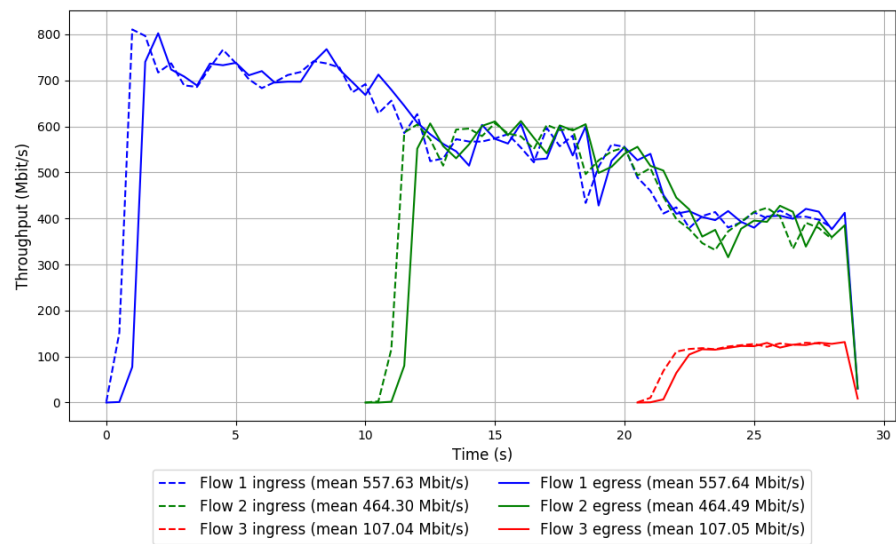
Run 4: Statistics of Indigo-MusesT

Start at: 2019-01-25 07:41:04  
End at: 2019-01-25 07:41:34  
Local clock offset: -0.05 ms  
Remote clock offset: -0.291 ms

# Below is generated by plot.py at 2019-01-25 10:28:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 881.25 Mbit/s  
95th percentile per-packet one-way delay: 109.134 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 557.64 Mbit/s  
95th percentile per-packet one-way delay: 111.737 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 464.49 Mbit/s  
95th percentile per-packet one-way delay: 74.267 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 107.05 Mbit/s  
95th percentile per-packet one-way delay: 63.331 ms  
Loss rate: 0.00%



Run 4: Report of Indigo-MusesT — Data Link





Run 5: Statistics of Indigo-MusesT

Start at: 2019-01-25 08:18:13

End at: 2019-01-25 08:18:43

Local clock offset: -0.091 ms

Remote clock offset: 0.628 ms

# Below is generated by plot.py at 2019-01-25 10:34:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 894.84 Mbit/s

95th percentile per-packet one-way delay: 106.708 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 531.79 Mbit/s

95th percentile per-packet one-way delay: 108.841 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 433.44 Mbit/s

95th percentile per-packet one-way delay: 106.819 ms

Loss rate: 0.00%

-- Flow 3:

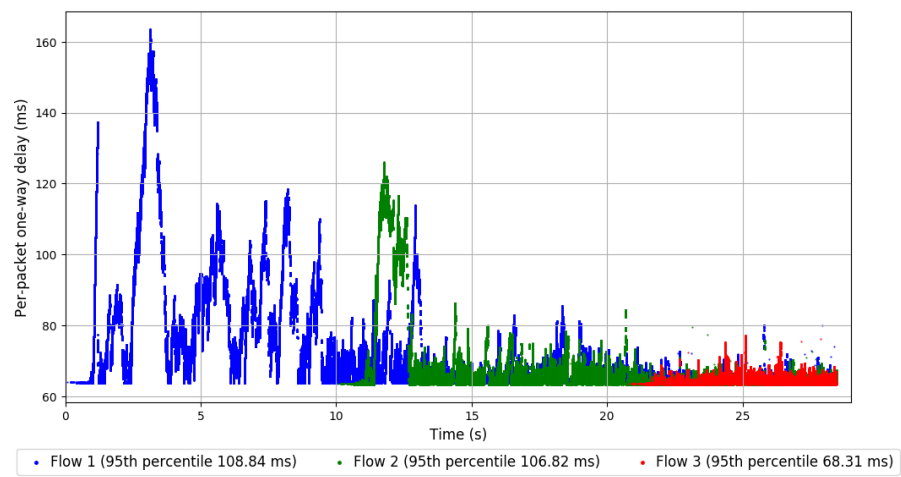
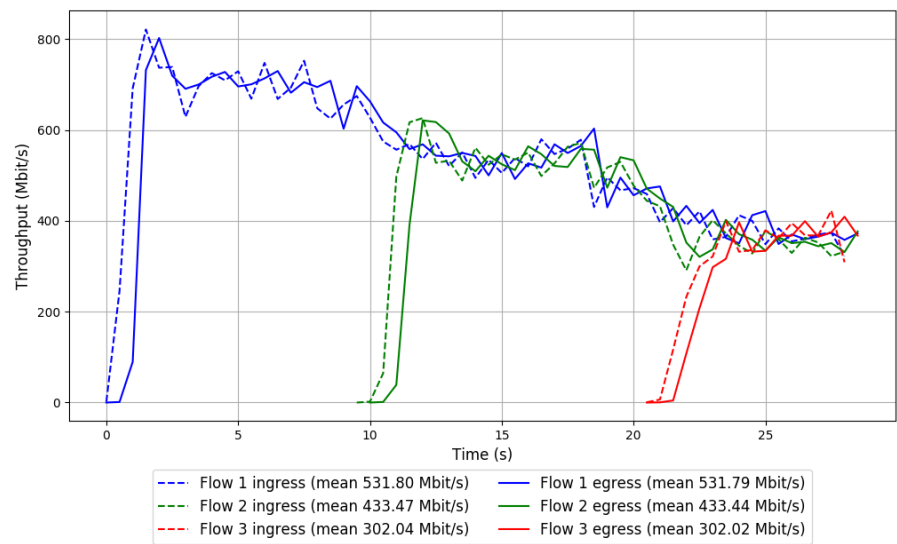
Average throughput: 302.02 Mbit/s

95th percentile per-packet one-way delay: 68.314 ms

Loss rate: 0.01%



Run 5: Report of Indigo-MusesT — Data Link





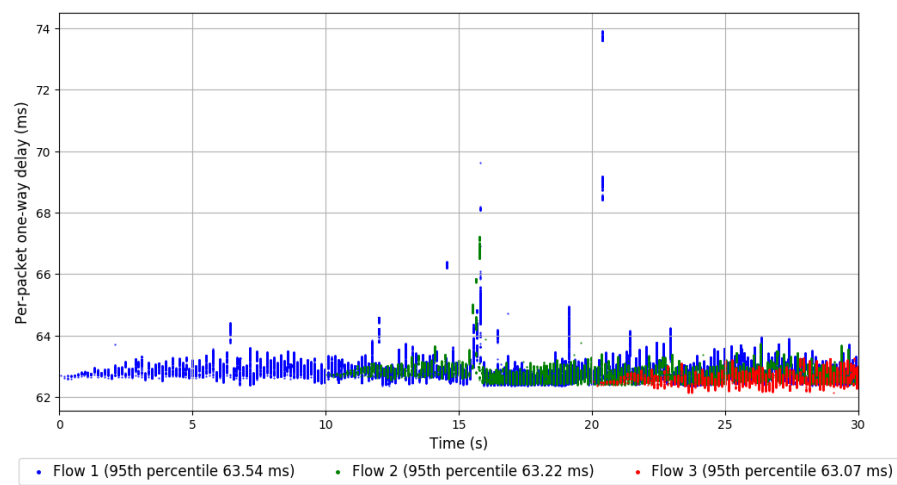
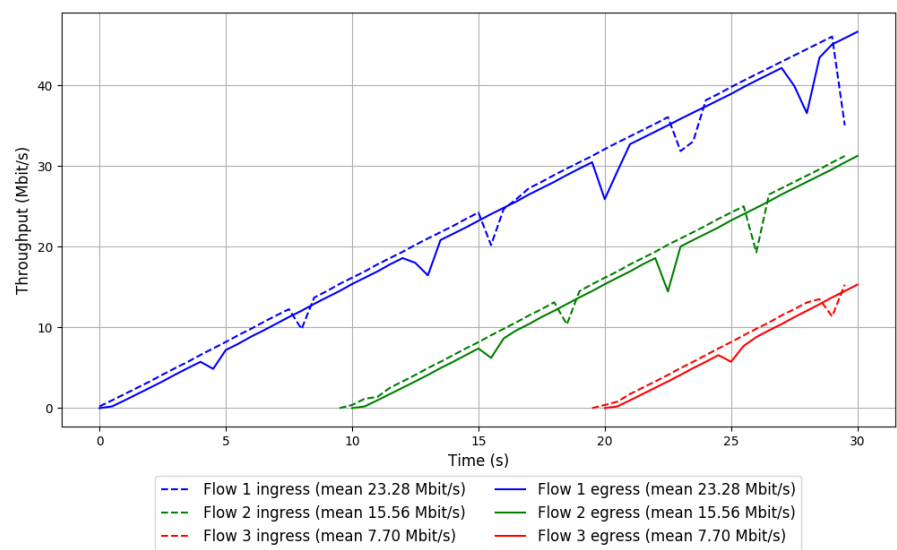
```
Run 1: Statistics of LEDBAT

Start at: 2019-01-25 05:15:45
End at: 2019-01-25 05:16:15
Local clock offset: -0.023 ms
Remote clock offset: -1.078 ms

# Below is generated by plot.py at 2019-01-25 10:34:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.13 Mbit/s
95th percentile per-packet one-way delay: 63.434 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 23.28 Mbit/s
95th percentile per-packet one-way delay: 63.539 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 15.56 Mbit/s
95th percentile per-packet one-way delay: 63.221 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.70 Mbit/s
95th percentile per-packet one-way delay: 63.069 ms
Loss rate: 0.00%
```



Run 1: Report of LEDBAT — Data Link





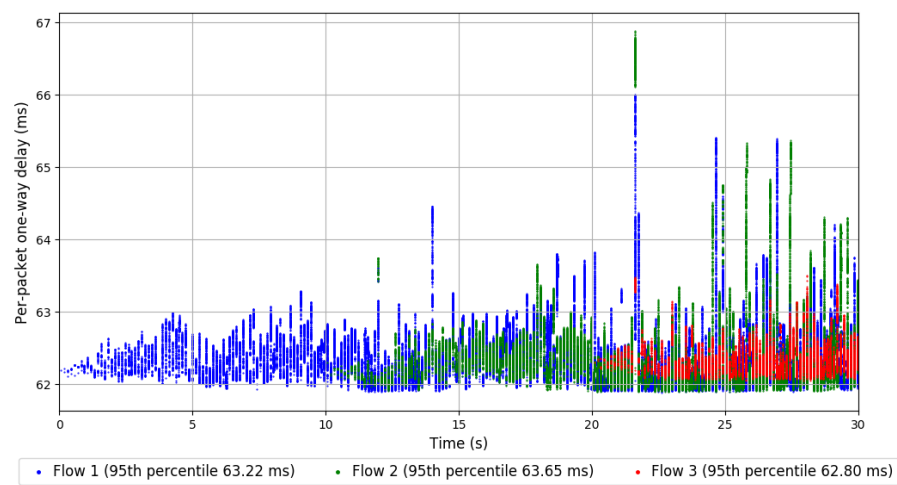
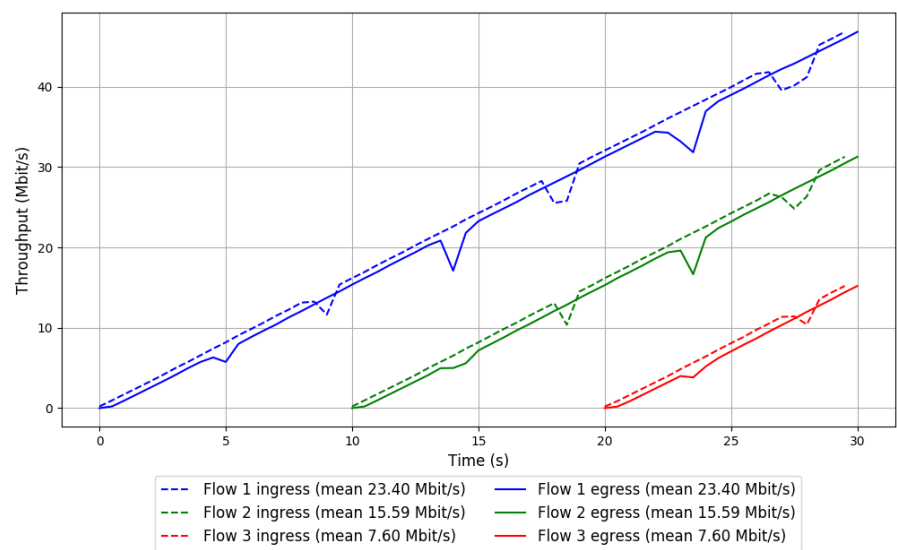
Run 2: Statistics of LEDBAT

Start at: 2019-01-25 05:53:02  
End at: 2019-01-25 05:53:32  
Local clock offset: -0.048 ms  
Remote clock offset: -0.787 ms

# Below is generated by plot.py at 2019-01-25 10:34:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 36.28 Mbit/s  
95th percentile per-packet one-way delay: 63.294 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 23.40 Mbit/s  
95th percentile per-packet one-way delay: 63.219 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 15.59 Mbit/s  
95th percentile per-packet one-way delay: 63.645 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 7.60 Mbit/s  
95th percentile per-packet one-way delay: 62.805 ms  
Loss rate: 0.00%



Run 2: Report of LEDBAT — Data Link





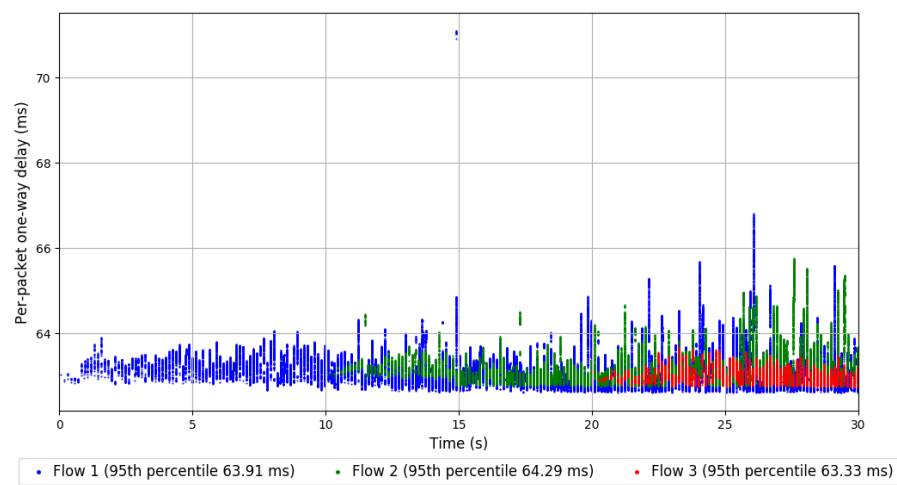
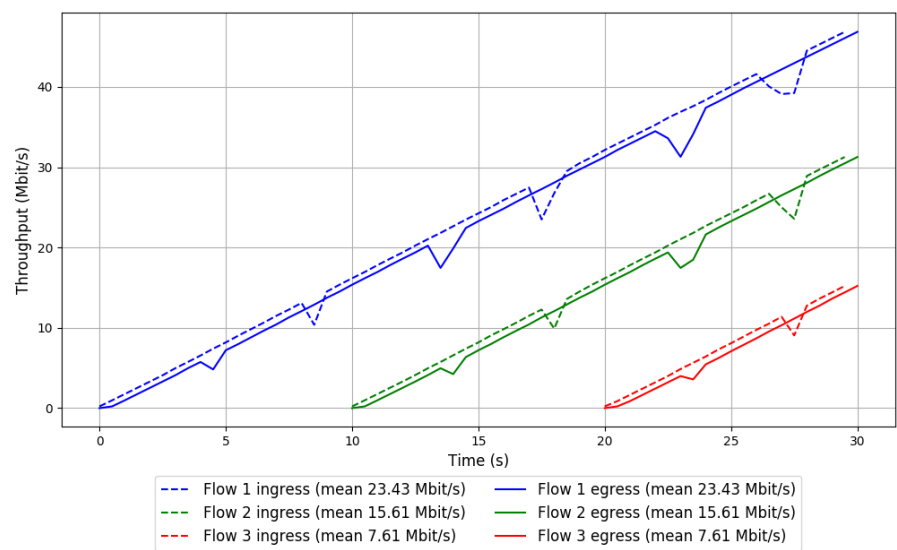
Run 3: Statistics of LEDBAT

Start at: 2019-01-25 06:30:31  
End at: 2019-01-25 06:31:01  
Local clock offset: -0.127 ms  
Remote clock offset: 0.055 ms

# Below is generated by plot.py at 2019-01-25 10:34:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 36.33 Mbit/s  
95th percentile per-packet one-way delay: 63.998 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 23.43 Mbit/s  
95th percentile per-packet one-way delay: 63.908 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 15.61 Mbit/s  
95th percentile per-packet one-way delay: 64.291 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 7.61 Mbit/s  
95th percentile per-packet one-way delay: 63.325 ms  
Loss rate: 0.00%



Run 3: Report of LEDBAT — Data Link





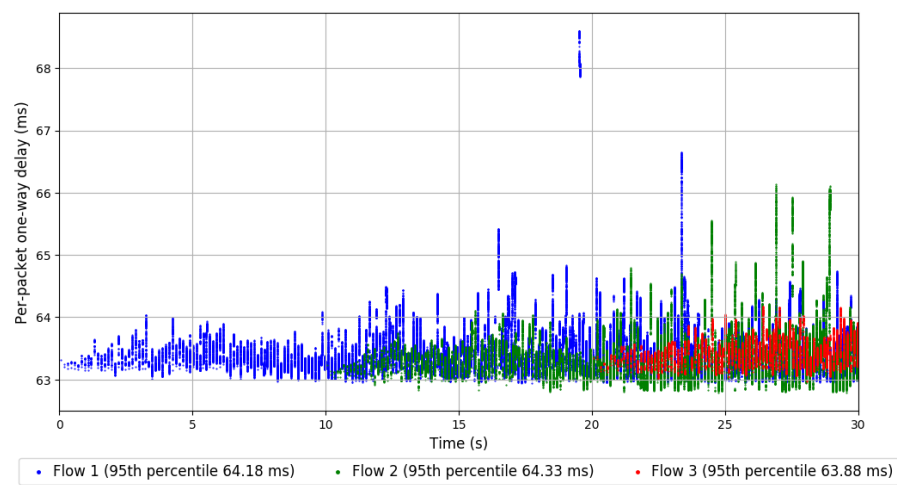
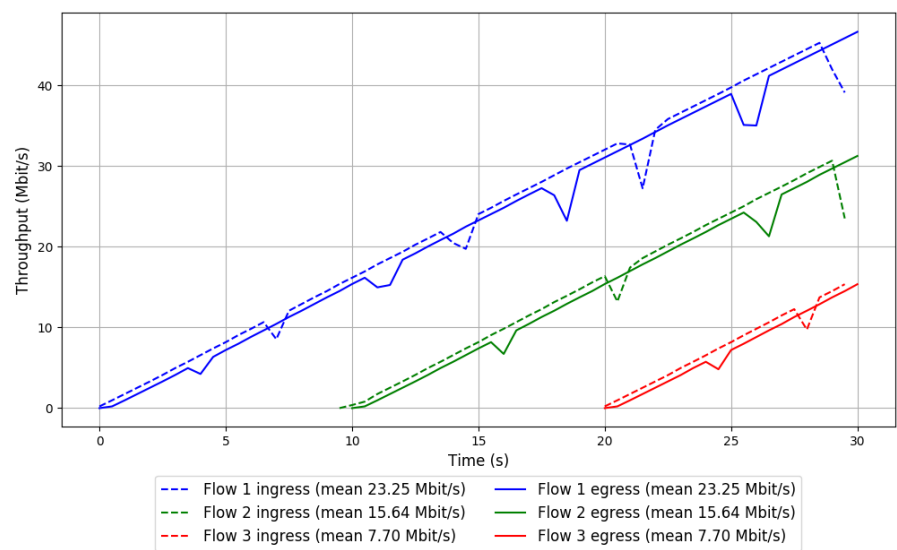
Run 4: Statistics of LEDBAT

Start at: 2019-01-25 07:07:35  
End at: 2019-01-25 07:08:05  
Local clock offset: -0.075 ms  
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-01-25 10:34:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 36.18 Mbit/s  
95th percentile per-packet one-way delay: 64.179 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 23.25 Mbit/s  
95th percentile per-packet one-way delay: 64.176 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 15.64 Mbit/s  
95th percentile per-packet one-way delay: 64.329 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 7.70 Mbit/s  
95th percentile per-packet one-way delay: 63.878 ms  
Loss rate: 0.00%



Run 4: Report of LEDBAT — Data Link





Run 5: Statistics of LEDBAT

Start at: 2019-01-25 07:44:53

End at: 2019-01-25 07:45:23

Local clock offset: -0.046 ms

Remote clock offset: 0.973 ms

# Below is generated by plot.py at 2019-01-25 10:34:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 36.33 Mbit/s

95th percentile per-packet one-way delay: 65.627 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 23.42 Mbit/s

95th percentile per-packet one-way delay: 65.806 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.57 Mbit/s

95th percentile per-packet one-way delay: 65.153 ms

Loss rate: 0.00%

-- Flow 3:

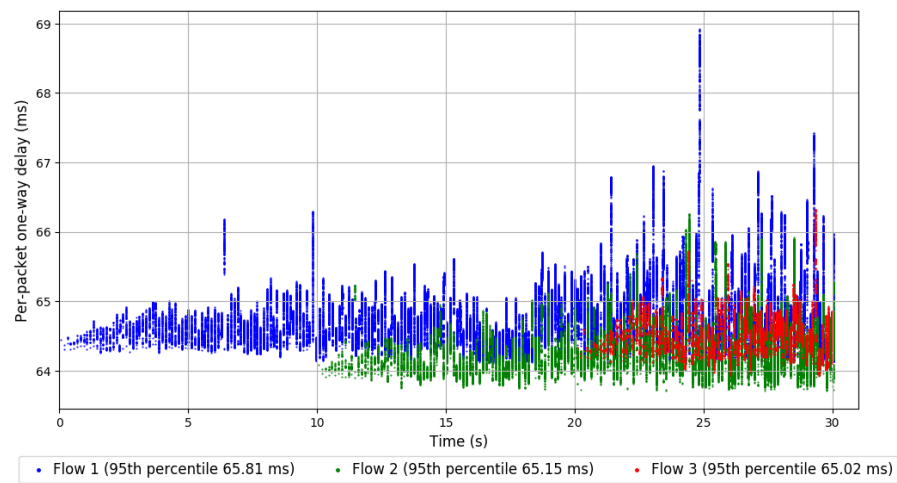
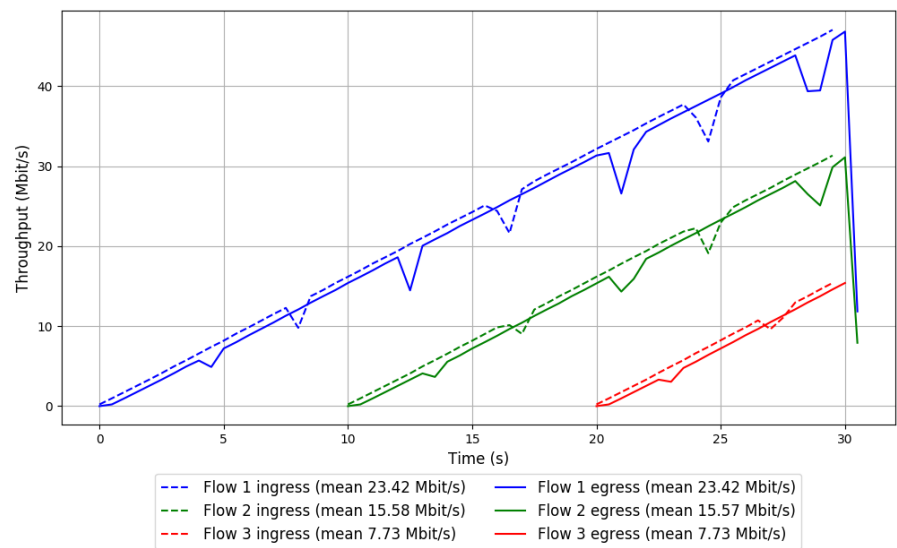
Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 65.019 ms

Loss rate: 0.00%



Run 5: Report of LEDBAT — Data Link





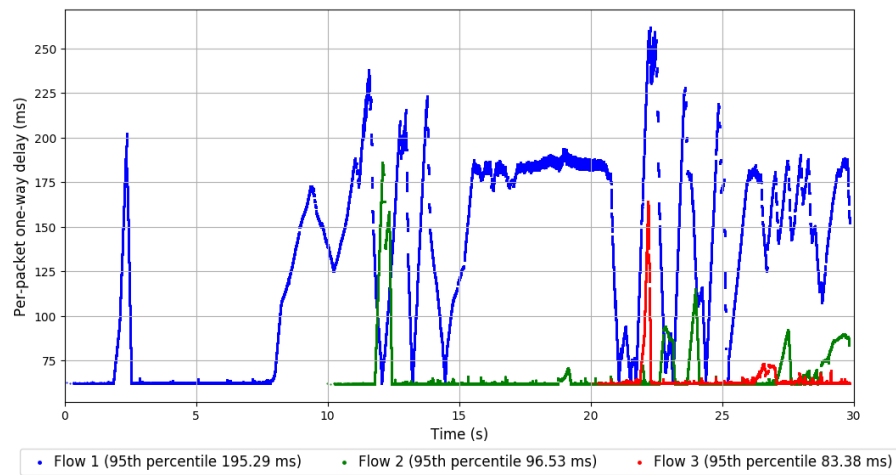
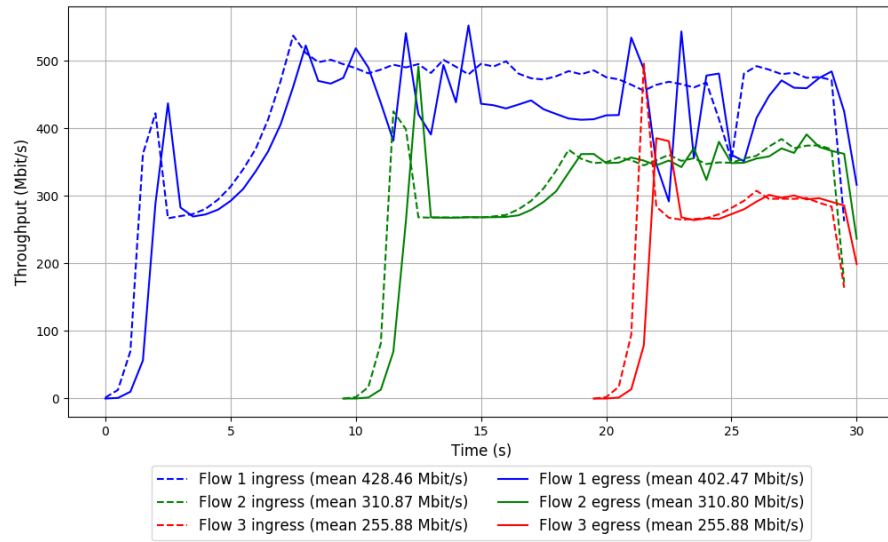
Run 1: Statistics of PCC-Allegro

Start at: 2019-01-25 05:21:34  
End at: 2019-01-25 05:22:04  
Local clock offset: 0.011 ms  
Remote clock offset: -1.118 ms

# Below is generated by plot.py at 2019-01-25 10:49:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 694.01 Mbit/s  
95th percentile per-packet one-way delay: 187.186 ms  
Loss rate: 3.73%  
-- Flow 1:  
Average throughput: 402.47 Mbit/s  
95th percentile per-packet one-way delay: 195.294 ms  
Loss rate: 6.06%  
-- Flow 2:  
Average throughput: 310.80 Mbit/s  
95th percentile per-packet one-way delay: 96.527 ms  
Loss rate: 0.43%  
-- Flow 3:  
Average throughput: 255.88 Mbit/s  
95th percentile per-packet one-way delay: 83.378 ms  
Loss rate: 0.00%



# Run 1: Report of PCC-Allegro — Data Link





Run 2: Statistics of PCC-Allegro

Start at: 2019-01-25 05:58:54

End at: 2019-01-25 05:59:24

Local clock offset: -0.055 ms

Remote clock offset: 0.068 ms

# Below is generated by plot.py at 2019-01-25 10:50:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 703.62 Mbit/s

95th percentile per-packet one-way delay: 184.591 ms

Loss rate: 5.04%

-- Flow 1:

Average throughput: 344.57 Mbit/s

95th percentile per-packet one-way delay: 191.268 ms

Loss rate: 5.08%

-- Flow 2:

Average throughput: 412.35 Mbit/s

95th percentile per-packet one-way delay: 180.965 ms

Loss rate: 5.78%

-- Flow 3:

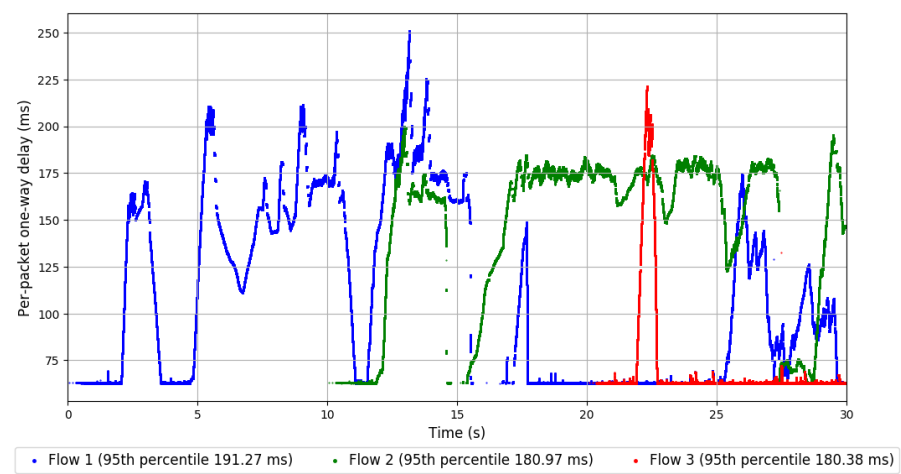
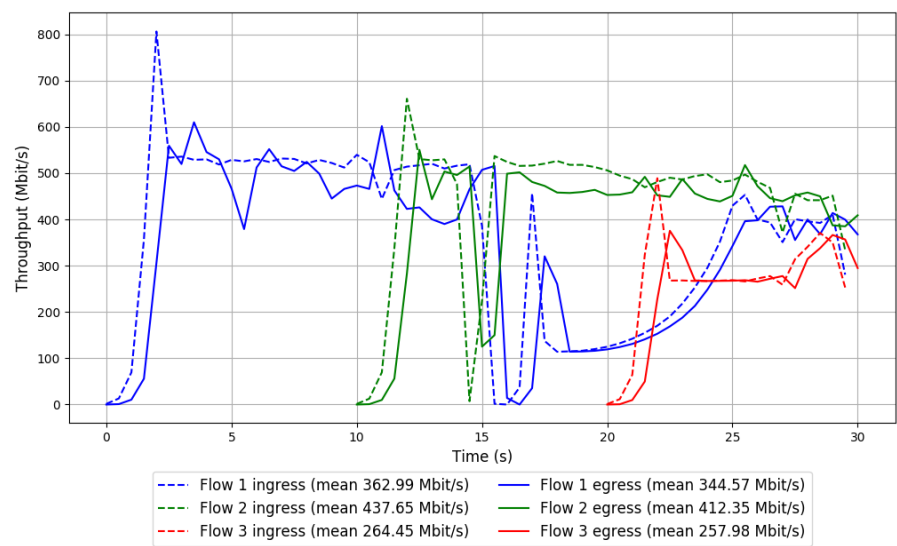
Average throughput: 257.98 Mbit/s

95th percentile per-packet one-way delay: 180.381 ms

Loss rate: 2.44%



Run 2: Report of PCC-Allegro — Data Link





Run 3: Statistics of PCC-Allegro

Start at: 2019-01-25 06:36:23

End at: 2019-01-25 06:36:53

Local clock offset: -0.078 ms

Remote clock offset: 0.036 ms

# Below is generated by plot.py at 2019-01-25 10:52:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 733.35 Mbit/s

95th percentile per-packet one-way delay: 185.932 ms

Loss rate: 3.44%

-- Flow 1:

Average throughput: 438.83 Mbit/s

95th percentile per-packet one-way delay: 188.474 ms

Loss rate: 5.03%

-- Flow 2:

Average throughput: 321.62 Mbit/s

95th percentile per-packet one-way delay: 127.123 ms

Loss rate: 0.74%

-- Flow 3:

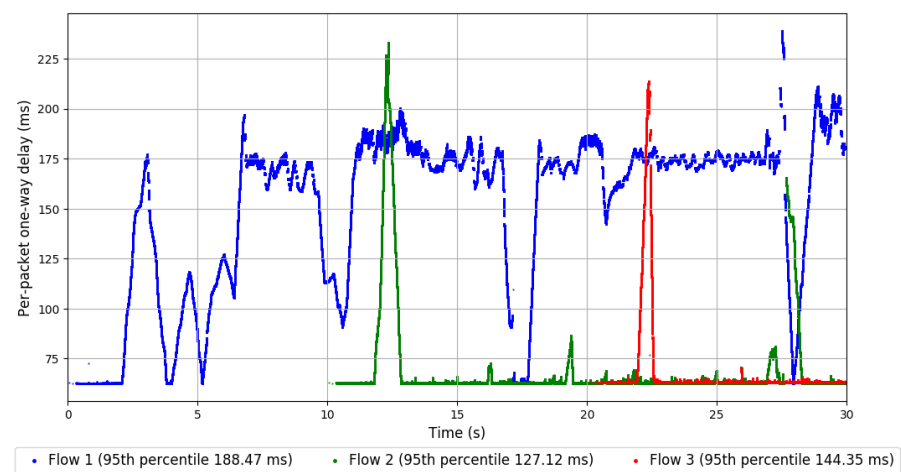
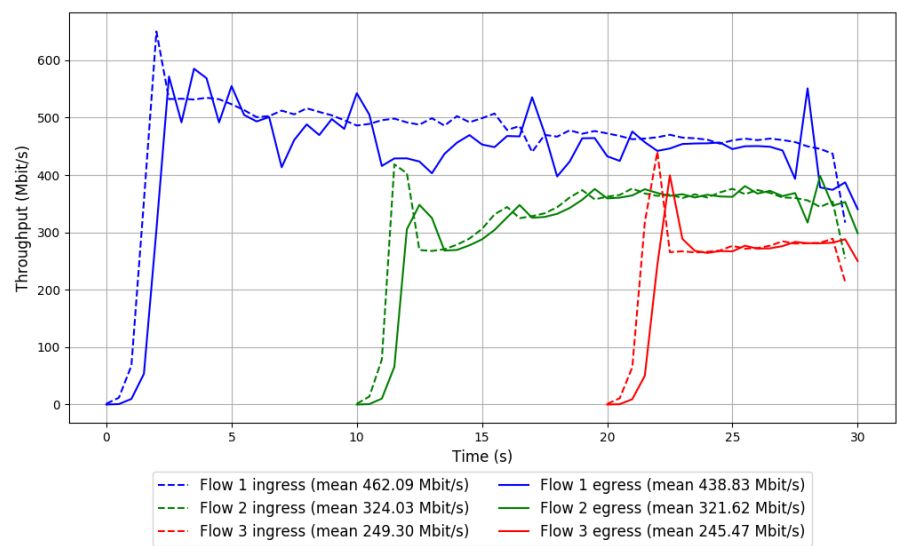
Average throughput: 245.47 Mbit/s

95th percentile per-packet one-way delay: 144.352 ms

Loss rate: 1.54%



Run 3: Report of PCC-Allegro — Data Link





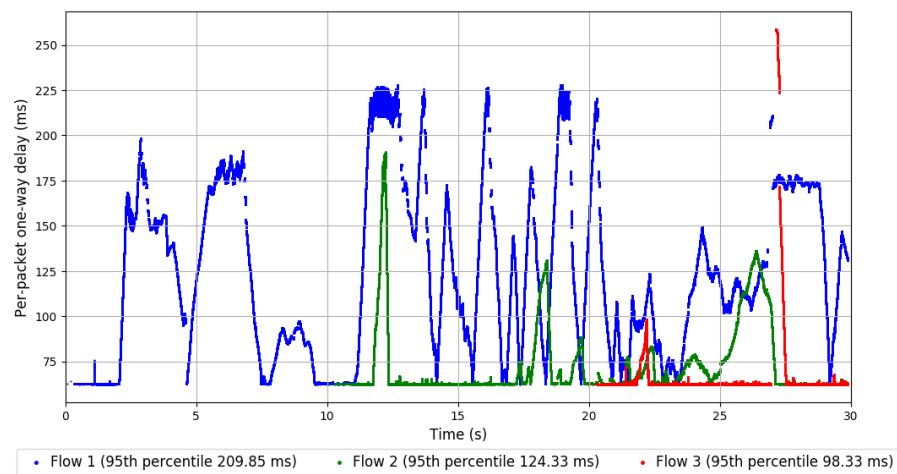
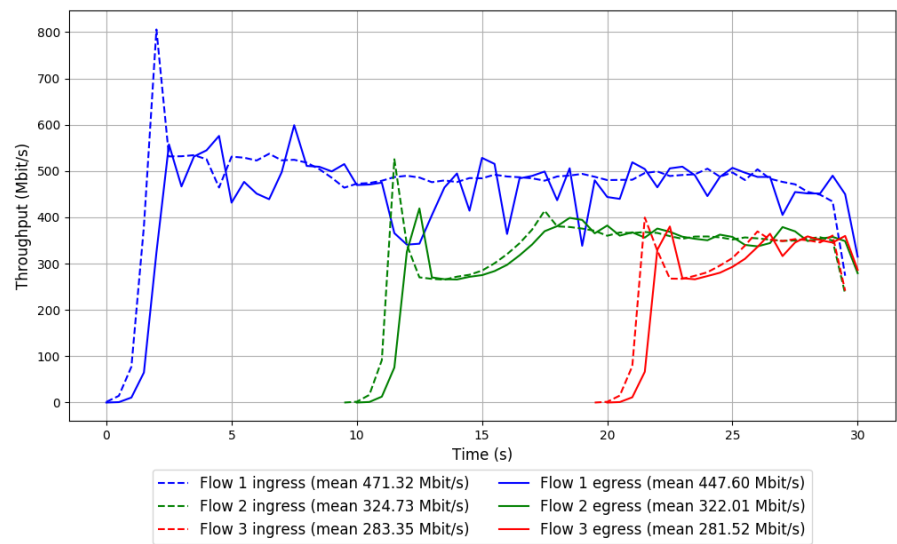
Run 4: Statistics of PCC-Allegro

Start at: 2019-01-25 07:13:28  
End at: 2019-01-25 07:13:58  
Local clock offset: -0.032 ms  
Remote clock offset: -0.509 ms

# Below is generated by plot.py at 2019-01-25 10:54:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 754.93 Mbit/s  
95th percentile per-packet one-way delay: 185.826 ms  
Loss rate: 3.35%  
-- Flow 1:  
Average throughput: 447.60 Mbit/s  
95th percentile per-packet one-way delay: 209.854 ms  
Loss rate: 5.03%  
-- Flow 2:  
Average throughput: 322.01 Mbit/s  
95th percentile per-packet one-way delay: 124.326 ms  
Loss rate: 0.84%  
-- Flow 3:  
Average throughput: 281.52 Mbit/s  
95th percentile per-packet one-way delay: 98.328 ms  
Loss rate: 0.65%



Run 4: Report of PCC-Allegro — Data Link





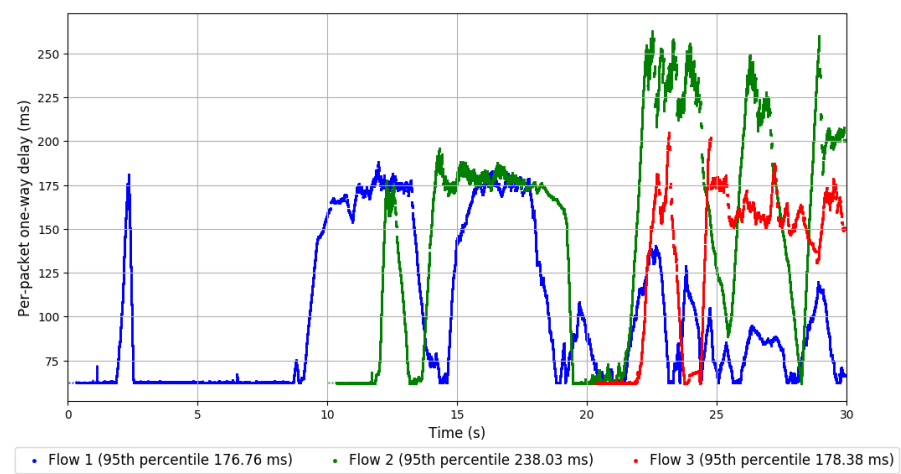
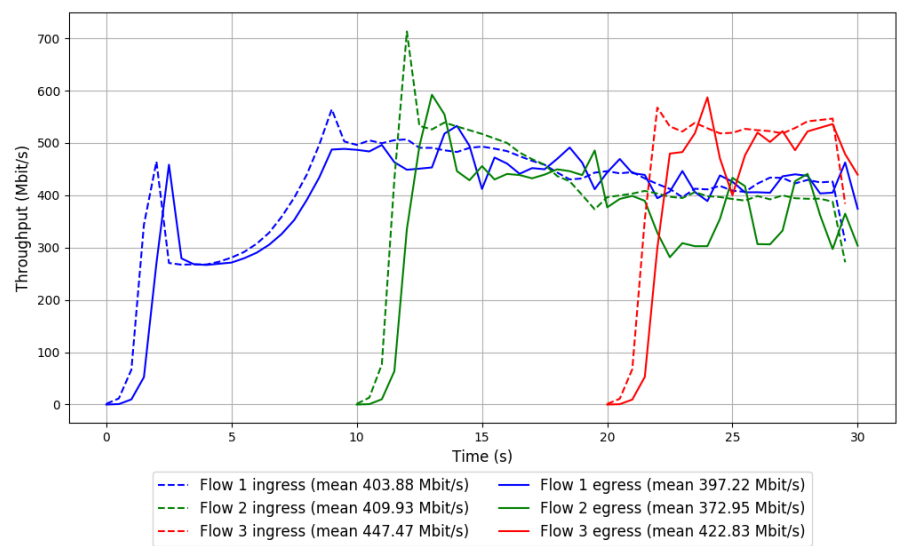
Run 5: Statistics of PCC-Allegro

Start at: 2019-01-25 07:50:48  
End at: 2019-01-25 07:51:18  
Local clock offset: -0.042 ms  
Remote clock offset: -0.817 ms

# Below is generated by plot.py at 2019-01-25 10:56:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 784.33 Mbit/s  
95th percentile per-packet one-way delay: 205.483 ms  
Loss rate: 4.77%  
-- Flow 1:  
Average throughput: 397.22 Mbit/s  
95th percentile per-packet one-way delay: 176.759 ms  
Loss rate: 1.64%  
-- Flow 2:  
Average throughput: 372.95 Mbit/s  
95th percentile per-packet one-way delay: 238.025 ms  
Loss rate: 9.01%  
-- Flow 3:  
Average throughput: 422.83 Mbit/s  
95th percentile per-packet one-way delay: 178.376 ms  
Loss rate: 5.49%



Run 5: Report of PCC-Allegro — Data Link





Run 1: Statistics of PCC-Expr

Start at: 2019-01-25 05:47:12

End at: 2019-01-25 05:47:42

Local clock offset: -0.047 ms

Remote clock offset: 0.678 ms

# Below is generated by plot.py at 2019-01-25 10:56:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 565.20 Mbit/s

95th percentile per-packet one-way delay: 157.759 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 292.35 Mbit/s

95th percentile per-packet one-way delay: 162.426 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 285.57 Mbit/s

95th percentile per-packet one-way delay: 156.882 ms

Loss rate: 0.83%

-- Flow 3:

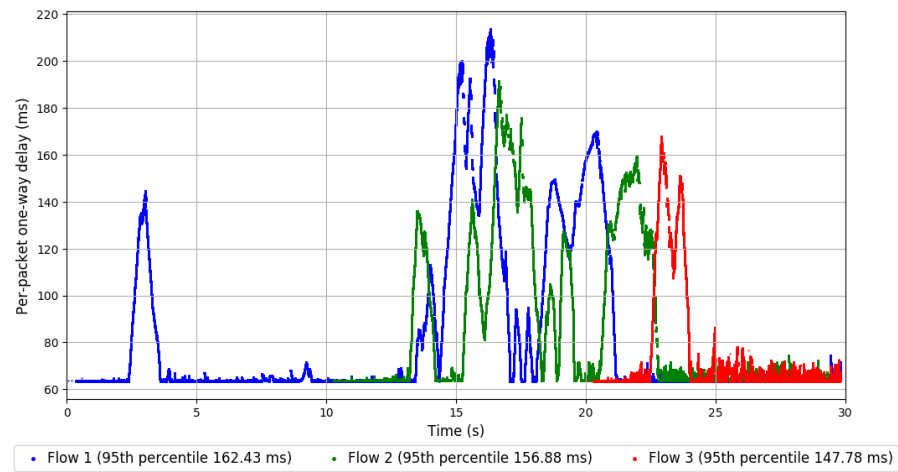
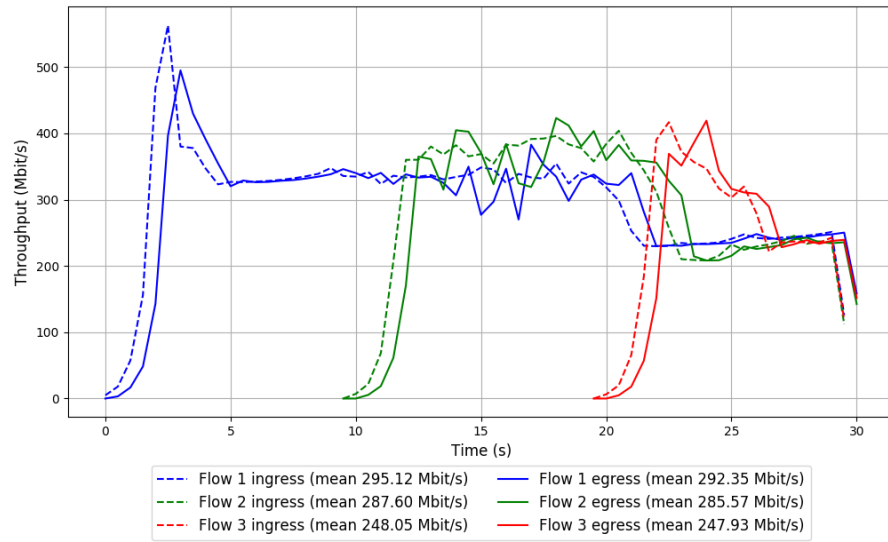
Average throughput: 247.93 Mbit/s

95th percentile per-packet one-way delay: 147.781 ms

Loss rate: 0.31%



# Run 1: Report of PCC-Expr — Data Link





Run 2: Statistics of PCC-Expr

Start at: 2019-01-25 06:24:36

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

Local clock offset: 0.035 ms

Remote clock offset: -0.4 ms

# Below is generated by plot.py at 2019-01-25 10:56:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 508.02 Mbit/s

95th percentile per-packet one-way delay: 166.752 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 293.35 Mbit/s

95th percentile per-packet one-way delay: 168.234 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 281.95 Mbit/s

95th percentile per-packet one-way delay: 134.706 ms

Loss rate: 0.63%

-- Flow 3:

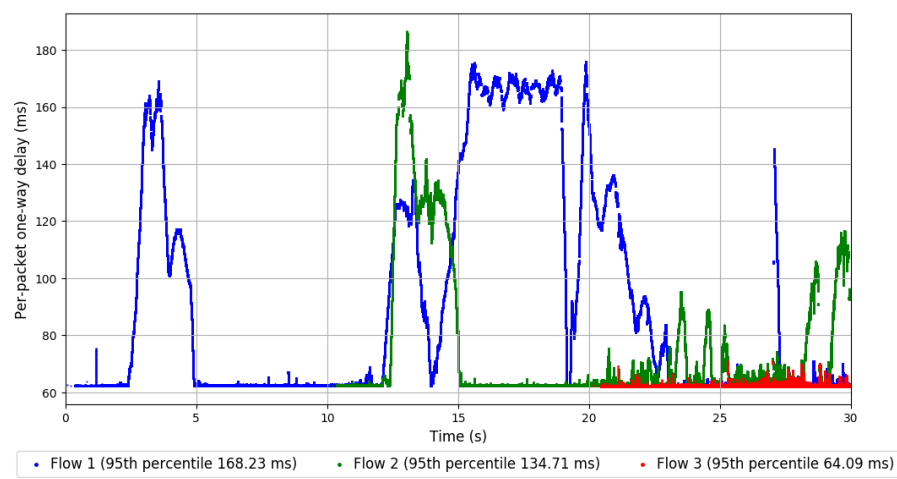
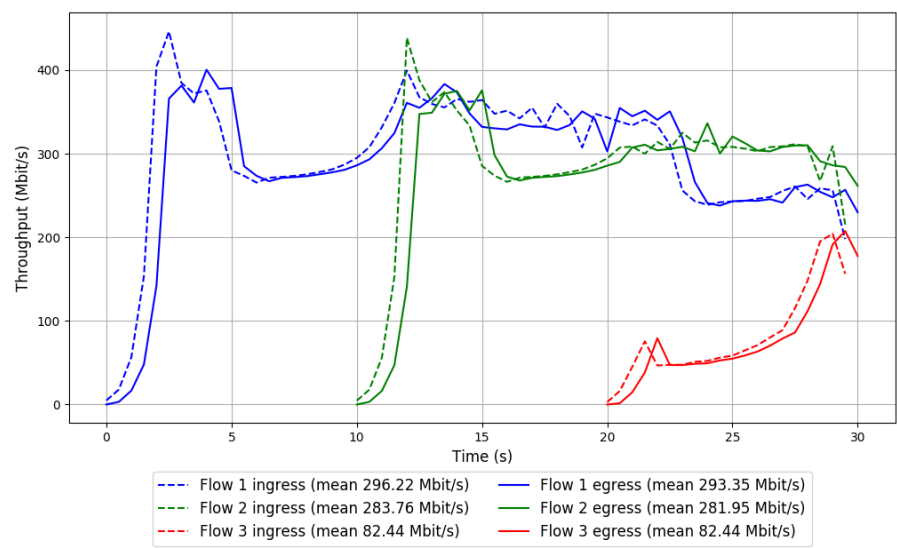
Average throughput: 82.44 Mbit/s

95th percentile per-packet one-way delay: 64.090 ms

Loss rate: 0.00%



Run 2: Report of PCC-Expr — Data Link





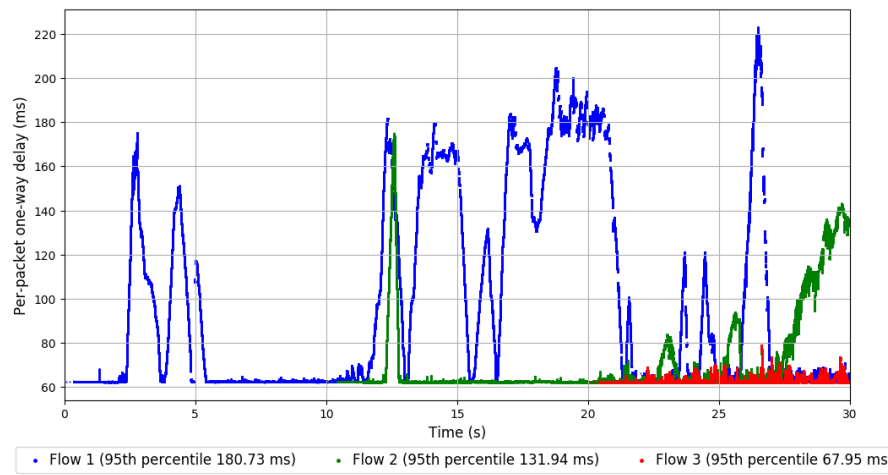
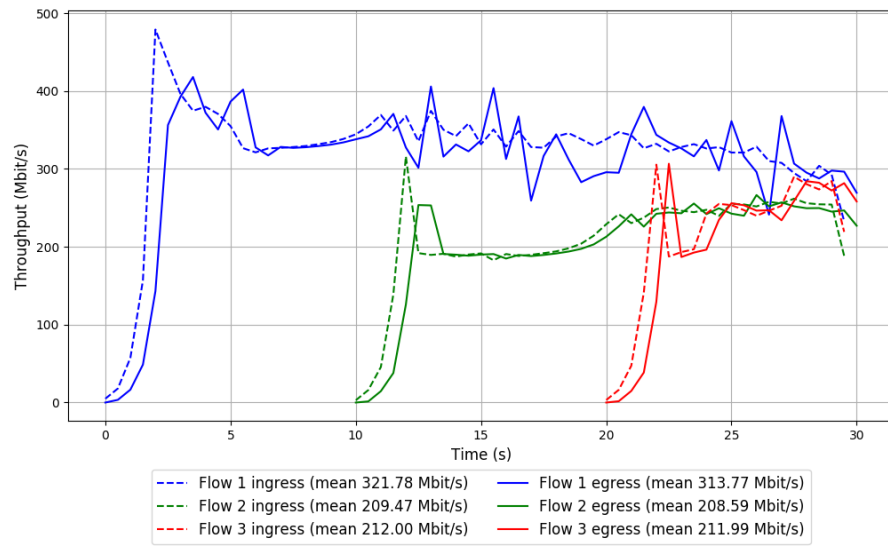
Run 3: Statistics of PCC-Expr

Start at: 2019-01-25 07:01:49  
End at: 2019-01-25 07:02:19  
Local clock offset: -0.071 ms  
Remote clock offset: -0.619 ms

# Below is generated by plot.py at 2019-01-25 10:56:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 522.23 Mbit/s  
95th percentile per-packet one-way delay: 176.069 ms  
Loss rate: 1.62%  
-- Flow 1:  
Average throughput: 313.77 Mbit/s  
95th percentile per-packet one-way delay: 180.732 ms  
Loss rate: 2.49%  
-- Flow 2:  
Average throughput: 208.59 Mbit/s  
95th percentile per-packet one-way delay: 131.937 ms  
Loss rate: 0.41%  
-- Flow 3:  
Average throughput: 211.99 Mbit/s  
95th percentile per-packet one-way delay: 67.949 ms  
Loss rate: 0.01%



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





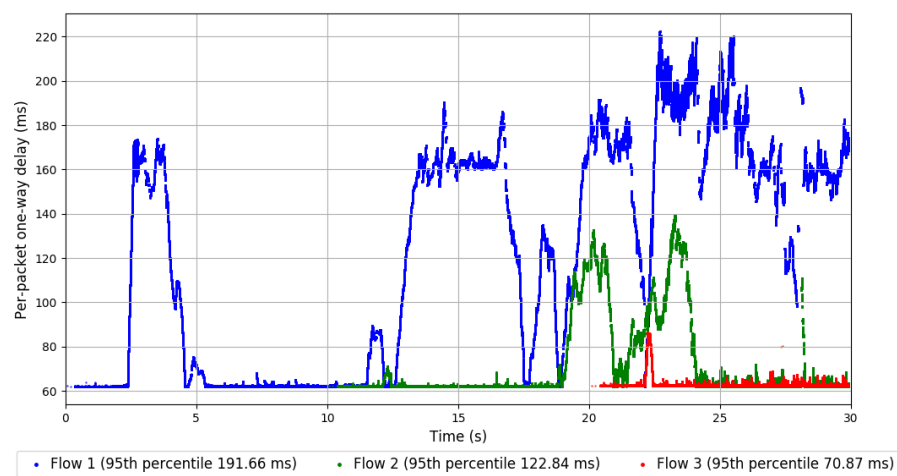
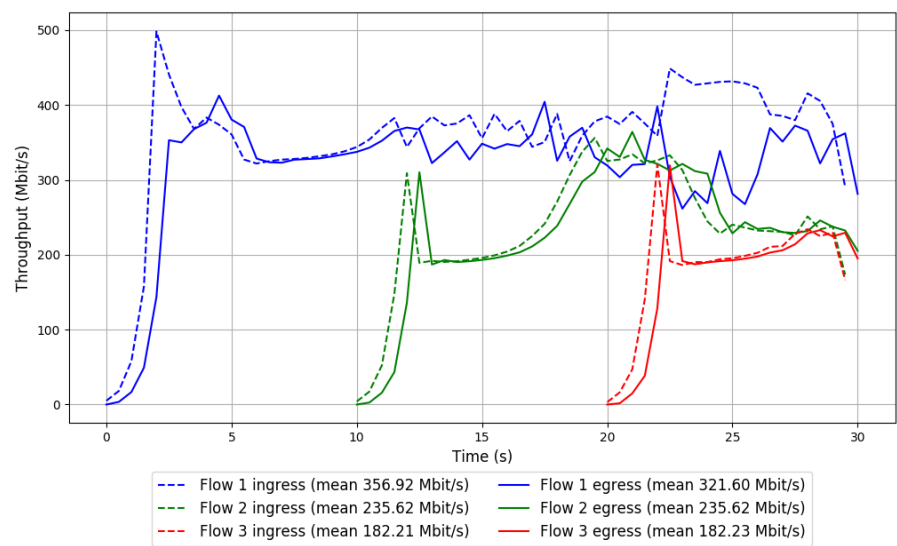
Run 4: Statistics of PCC-Expr

Start at: 2019-01-25 07:39:01  
End at: 2019-01-25 07:39:31  
Local clock offset: -0.03 ms  
Remote clock offset: -0.868 ms

# Below is generated by plot.py at 2019-01-25 11:03:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 538.25 Mbit/s  
95th percentile per-packet one-way delay: 184.004 ms  
Loss rate: 6.16%  
-- Flow 1:  
Average throughput: 321.60 Mbit/s  
95th percentile per-packet one-way delay: 191.662 ms  
Loss rate: 9.89%  
-- Flow 2:  
Average throughput: 235.62 Mbit/s  
95th percentile per-packet one-way delay: 122.843 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 182.23 Mbit/s  
95th percentile per-packet one-way delay: 70.872 ms  
Loss rate: 0.00%



Run 4: Report of PCC-Expr — Data Link





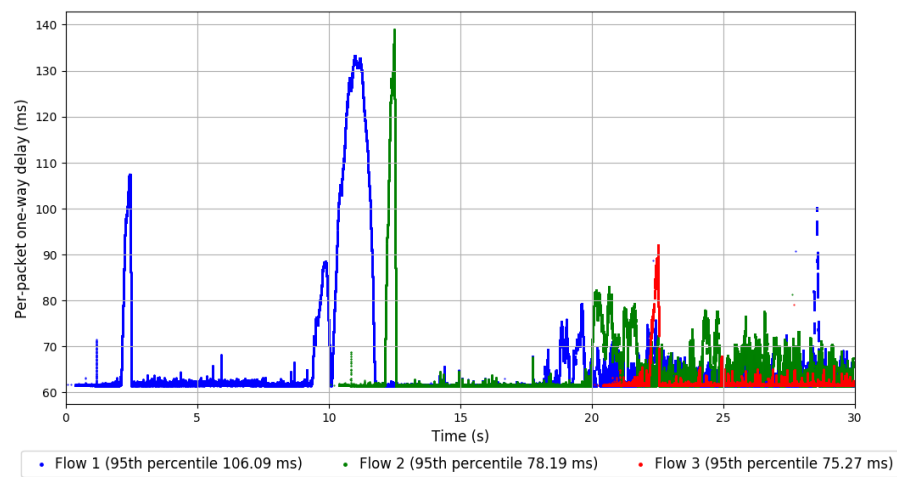
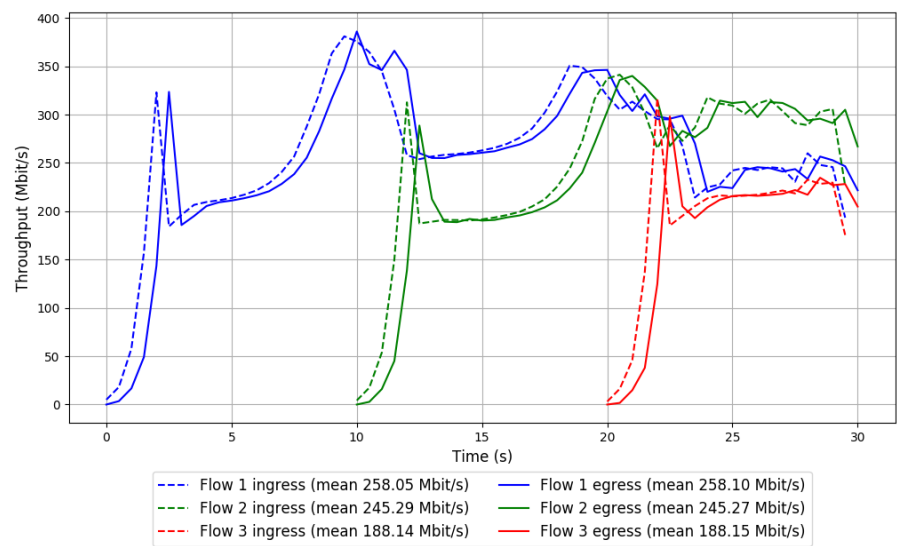
Run 5: Statistics of PCC-Expr

Start at: 2019-01-25 08:16:16  
End at: 2019-01-25 08:16:46  
Local clock offset: 0.021 ms  
Remote clock offset: -1.325 ms

# Below is generated by plot.py at 2019-01-25 11:03:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 483.20 Mbit/s  
95th percentile per-packet one-way delay: 88.134 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 258.10 Mbit/s  
95th percentile per-packet one-way delay: 106.091 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 245.27 Mbit/s  
95th percentile per-packet one-way delay: 78.195 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 188.15 Mbit/s  
95th percentile per-packet one-way delay: 75.267 ms  
Loss rate: 0.01%



Run 5: Report of PCC-Expr — Data Link





Run 1: Statistics of QUIC Cubic

Start at: 2019-01-25 05:20:19

End at: 2019-01-25 05:20:49

Local clock offset: -0.01 ms

Remote clock offset: -0.85 ms

# Below is generated by plot.py at 2019-01-25 11:03:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 38.12 Mbit/s

95th percentile per-packet one-way delay: 62.770 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 62.646 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.29 Mbit/s

95th percentile per-packet one-way delay: 62.782 ms

Loss rate: 0.00%

-- Flow 3:

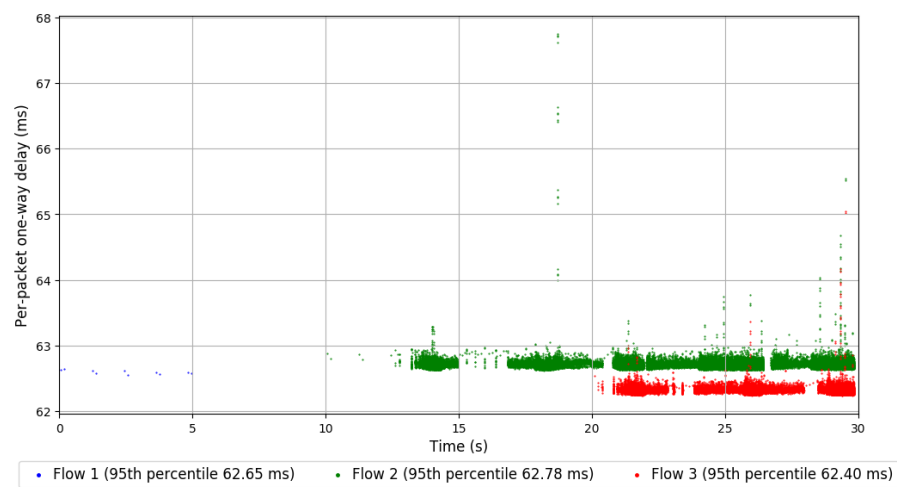
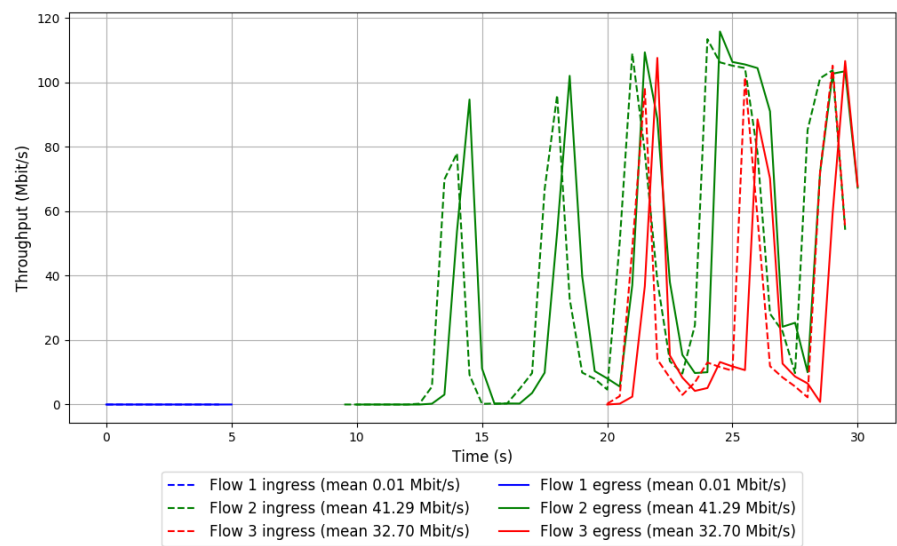
Average throughput: 32.70 Mbit/s

95th percentile per-packet one-way delay: 62.396 ms

Loss rate: 0.00%



Run 1: Report of QUIC Cubic — Data Link





Run 2: Statistics of QUIC Cubic

Start at: 2019-01-25 05:57:36

End at: 2019-01-25 05:58:06

Local clock offset: -0.023 ms

Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2019-01-25 11:03:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 99.18 Mbit/s

95th percentile per-packet one-way delay: 62.958 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.76 Mbit/s

95th percentile per-packet one-way delay: 62.838 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.87 Mbit/s

95th percentile per-packet one-way delay: 62.681 ms

Loss rate: 0.00%

-- Flow 3:

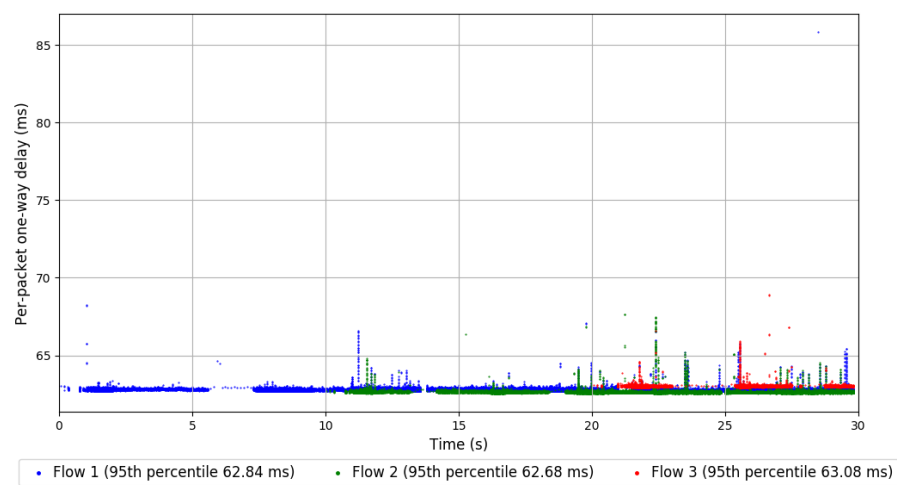
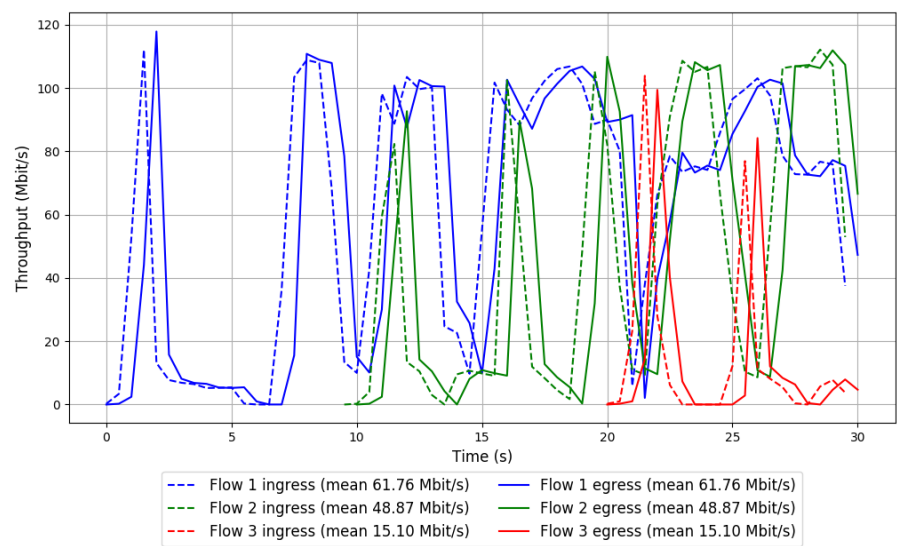
Average throughput: 15.10 Mbit/s

95th percentile per-packet one-way delay: 63.078 ms

Loss rate: 0.00%



Run 2: Report of QUIC Cubic — Data Link





Run 3: Statistics of QUIC Cubic

Start at: 2019-01-25 06:35:05

End at: 2019-01-25 06:35:35

Local clock offset: 0.025 ms

Remote clock offset: 1.542 ms

# Below is generated by plot.py at 2019-01-25 11:03:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.87 Mbit/s

95th percentile per-packet one-way delay: 64.419 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.63 Mbit/s

95th percentile per-packet one-way delay: 64.432 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.24 Mbit/s

95th percentile per-packet one-way delay: 64.053 ms

Loss rate: 0.00%

-- Flow 3:

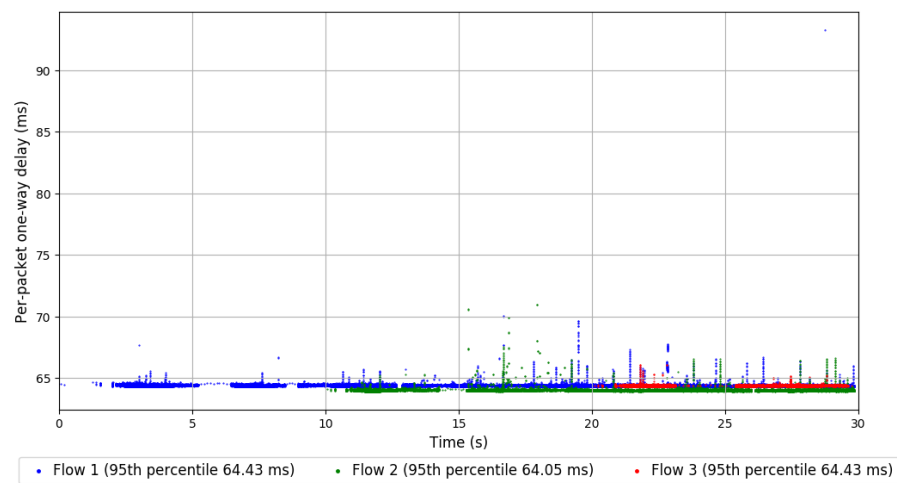
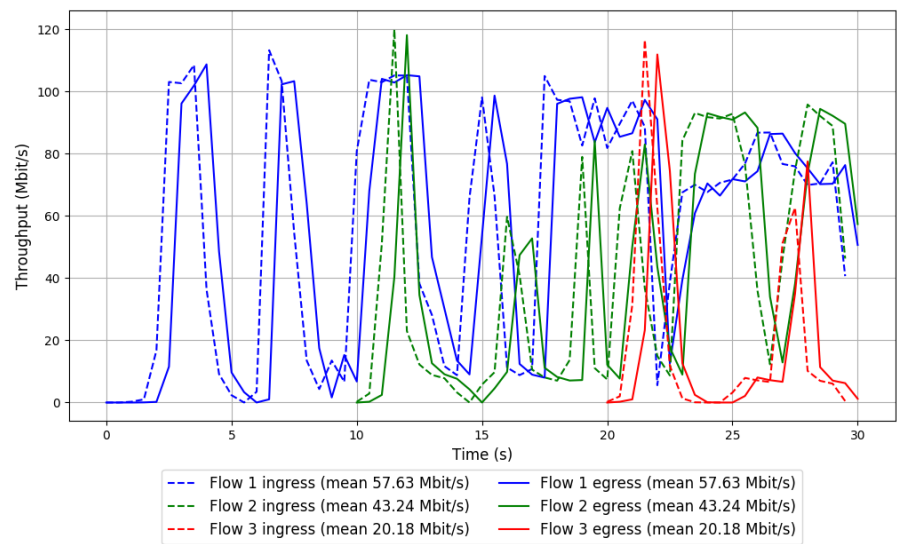
Average throughput: 20.18 Mbit/s

95th percentile per-packet one-way delay: 64.427 ms

Loss rate: 0.00%



Run 3: Report of QUIC Cubic — Data Link





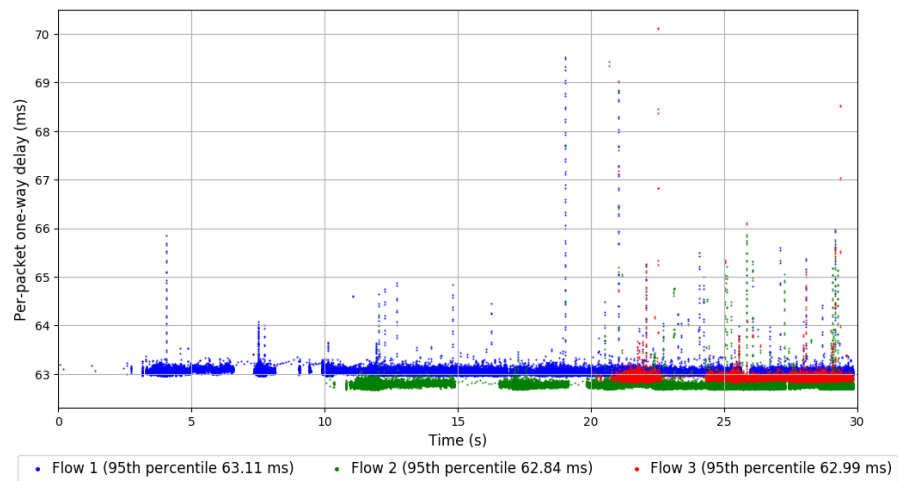
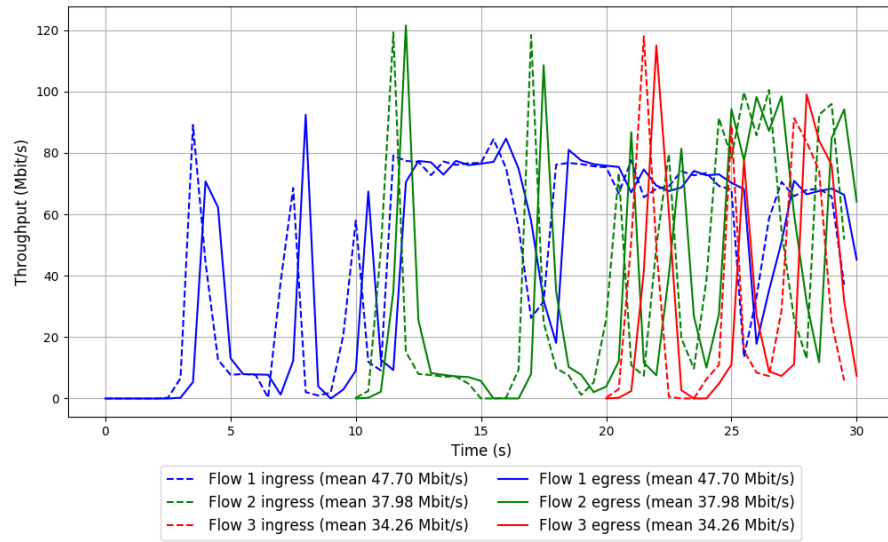
Run 4: Statistics of QUIC Cubic

Start at: 2019-01-25 07:12:10  
End at: 2019-01-25 07:12:40  
Local clock offset: -0.046 ms  
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2019-01-25 11:03:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.14 Mbit/s  
95th percentile per-packet one-way delay: 63.089 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 47.70 Mbit/s  
95th percentile per-packet one-way delay: 63.107 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 37.98 Mbit/s  
95th percentile per-packet one-way delay: 62.835 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 34.26 Mbit/s  
95th percentile per-packet one-way delay: 62.987 ms  
Loss rate: 0.00%



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





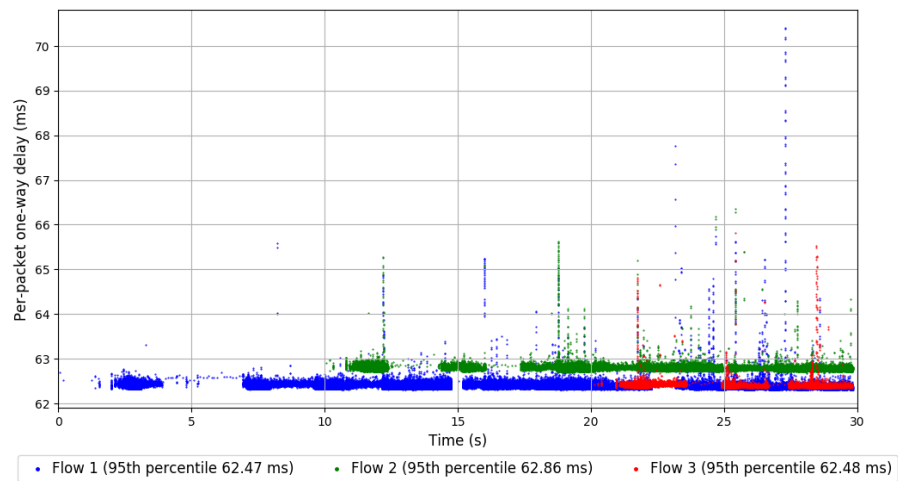
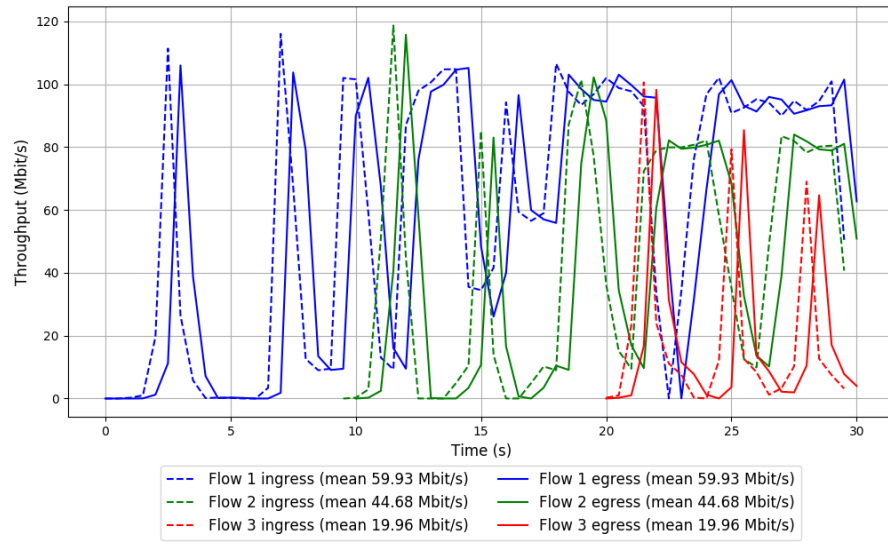
Run 5: Statistics of QUIC Cubic

Start at: 2019-01-25 07:49:29  
End at: 2019-01-25 07:49:59  
Local clock offset: -0.129 ms  
Remote clock offset: -0.519 ms

```
# Below is generated by plot.py at 2019-01-25 11:03:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.12 Mbit/s
95th percentile per-packet one-way delay: 62.823 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.93 Mbit/s
95th percentile per-packet one-way delay: 62.471 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 44.68 Mbit/s
95th percentile per-packet one-way delay: 62.863 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 19.96 Mbit/s
95th percentile per-packet one-way delay: 62.479 ms
Loss rate: 0.00%
```



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





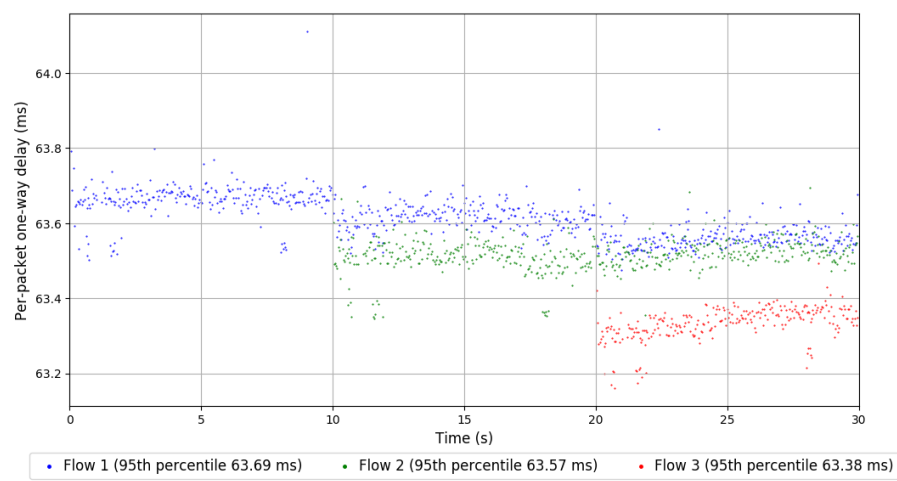
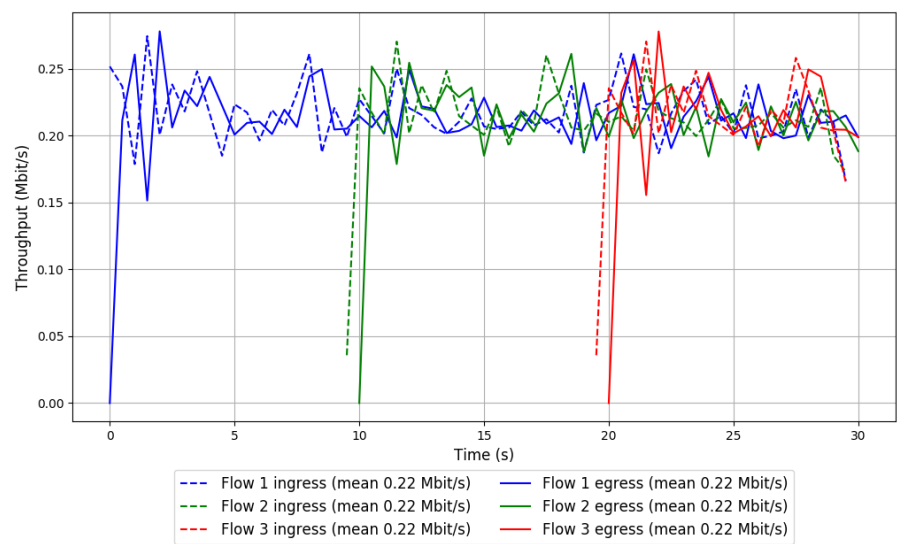
Run 1: Statistics of SReAM

Start at: 2019-01-25 05:19:06  
End at: 2019-01-25 05:19:36  
Local clock offset: -0.02 ms  
Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2019-01-25 11:03:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 63.684 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.694 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.573 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.385 ms  
Loss rate: 0.00%



Run 1: Report of SReAM — Data Link





Run 2: Statistics of SReAM

Start at: 2019-01-25 05:56:24

End at: 2019-01-25 05:56:54

Local clock offset: -0.041 ms

Remote clock offset: 0.767 ms

# Below is generated by plot.py at 2019-01-25 11:03:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 63.924 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.839 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.703 ms

Loss rate: 0.00%

-- Flow 3:

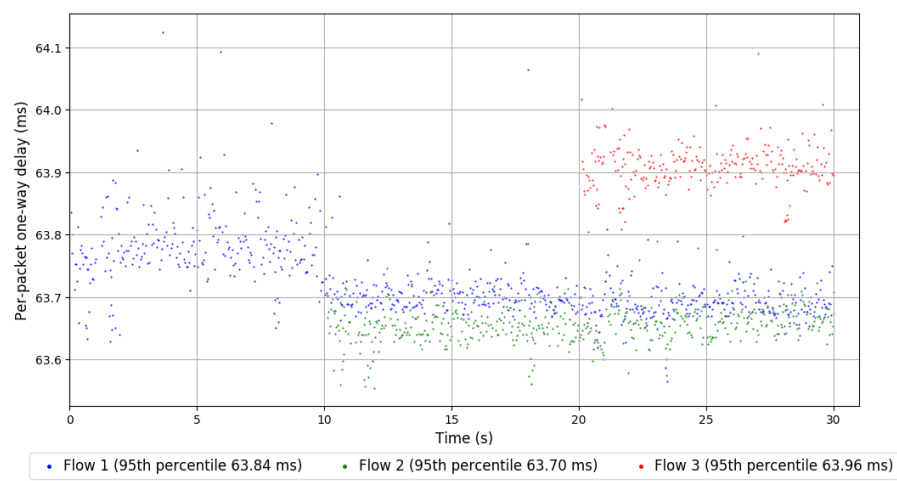
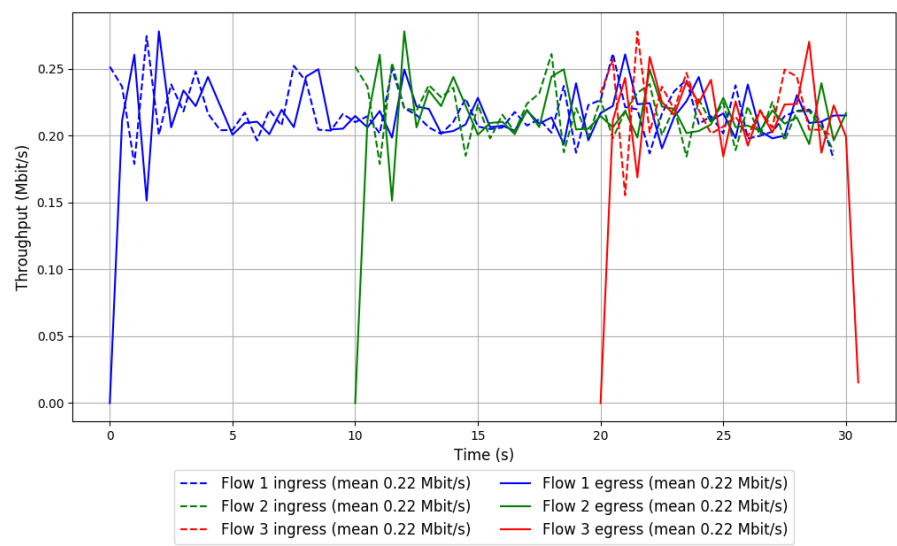
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.963 ms

Loss rate: 0.00%



Run 2: Report of SReAM — Data Link





Run 3: Statistics of SReAM

Start at: 2019-01-25 06:33:52

End at: 2019-01-25 06:34:22

Local clock offset: -0.07 ms

Remote clock offset: 0.167 ms

# Below is generated by plot.py at 2019-01-25 11:03:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 63.314 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.111 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 62.914 ms

Loss rate: 0.00%

-- Flow 3:

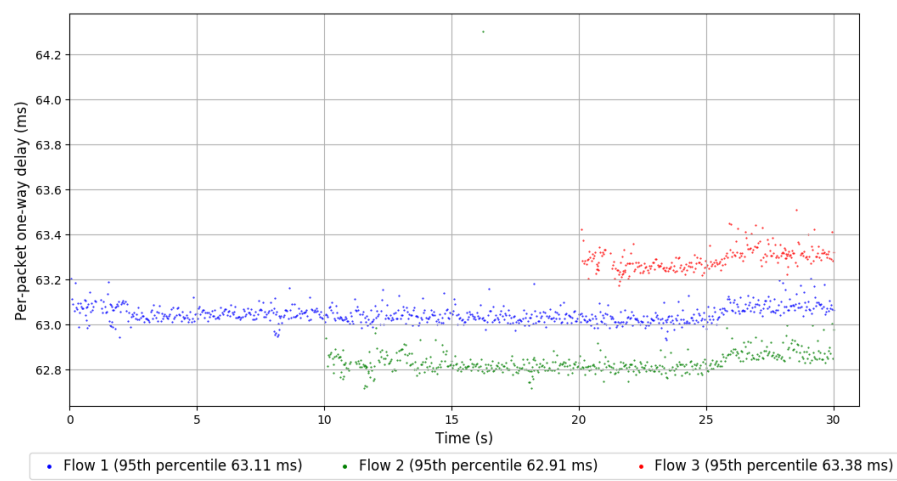
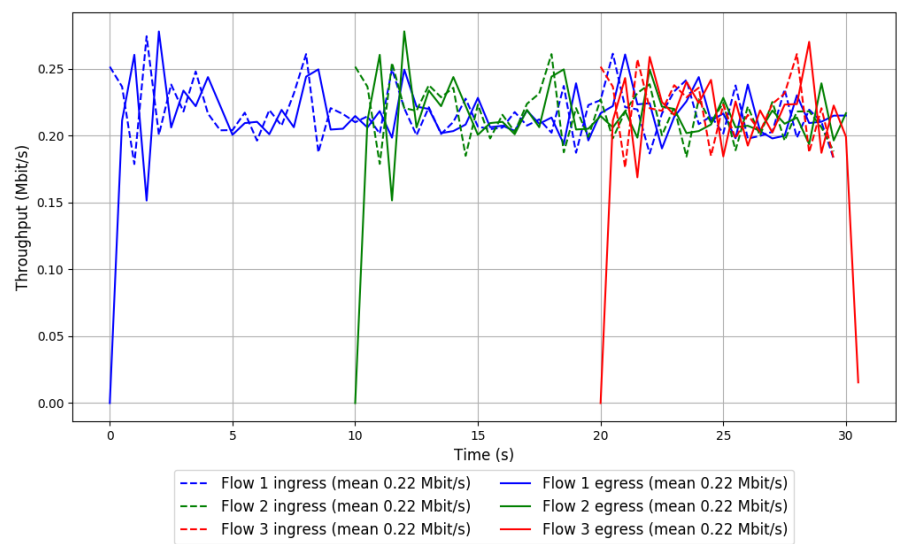
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.384 ms

Loss rate: 0.00%



Run 3: Report of SCReAM — Data Link





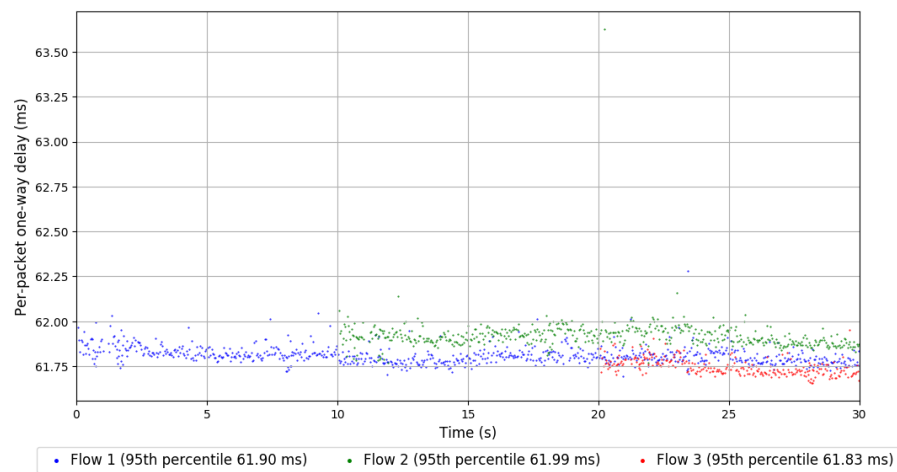
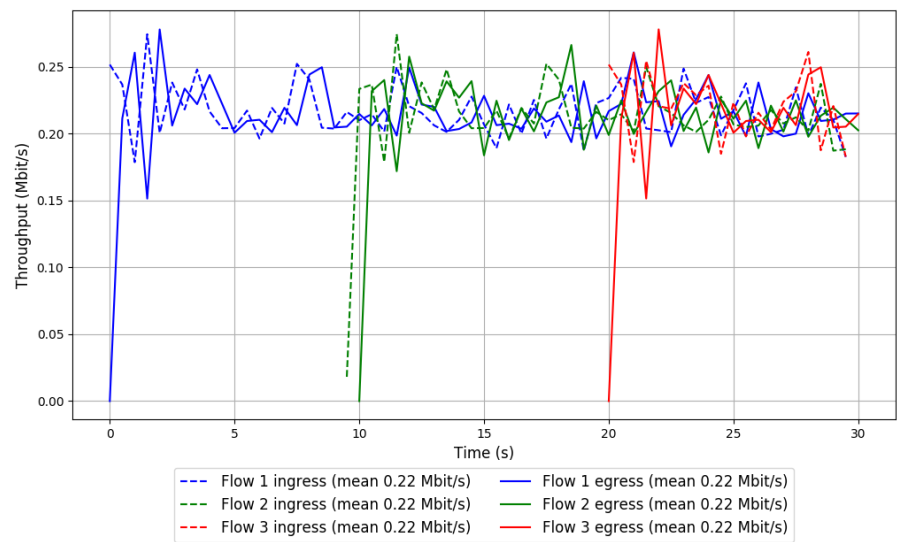
Run 4: Statistics of SReAM

Start at: 2019-01-25 07:10:58  
End at: 2019-01-25 07:11:28  
Local clock offset: -0.024 ms  
Remote clock offset: -1.284 ms

# Below is generated by plot.py at 2019-01-25 11:03:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 61.969 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 61.898 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 61.994 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 61.832 ms  
Loss rate: 0.00%



Run 4: Report of SReAM — Data Link





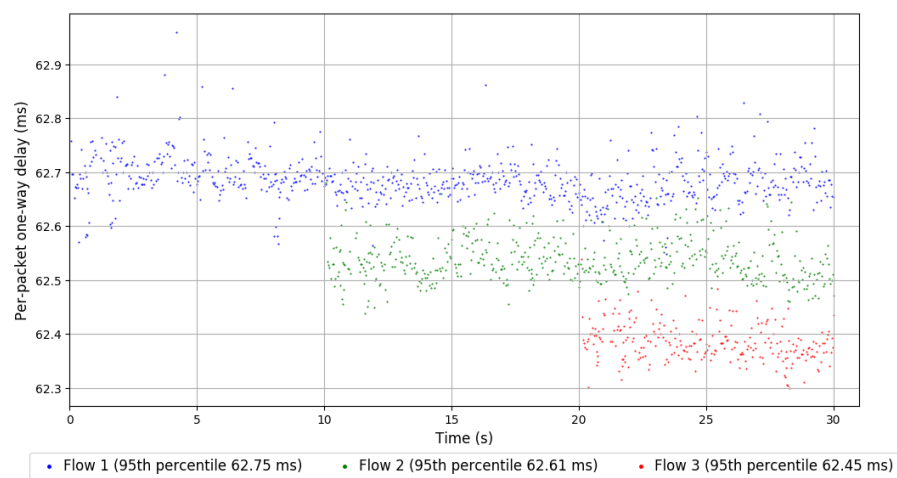
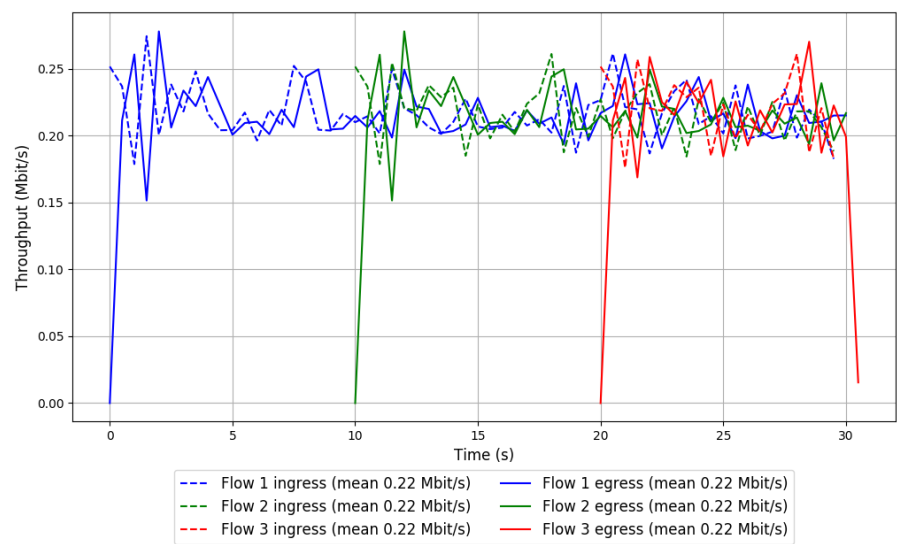
Run 5: Statistics of SReAM

Start at: 2019-01-25 07:48:17  
End at: 2019-01-25 07:48:47  
Local clock offset: -0.02 ms  
Remote clock offset: -0.665 ms

# Below is generated by plot.py at 2019-01-25 11:03:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 62.734 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 62.754 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 62.612 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 62.446 ms  
Loss rate: 0.00%



Run 5: Report of SCReAM — Data Link





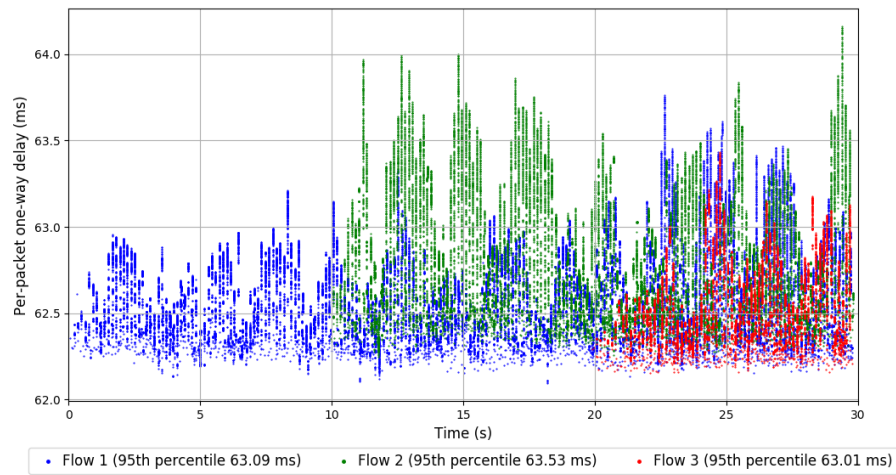
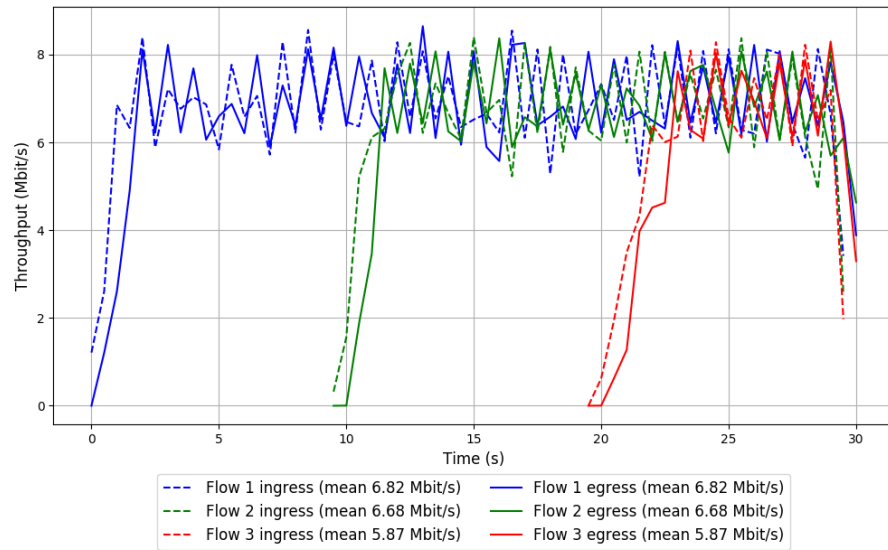
Run 1: Statistics of Sprout

Start at: 2019-01-25 05:28:47  
End at: 2019-01-25 05:29:17  
Local clock offset: 0.015 ms  
Remote clock offset: -1.061 ms

# Below is generated by plot.py at 2019-01-25 11:03:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 13.23 Mbit/s  
95th percentile per-packet one-way delay: 63.328 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 6.82 Mbit/s  
95th percentile per-packet one-way delay: 63.086 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 6.68 Mbit/s  
95th percentile per-packet one-way delay: 63.535 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 5.87 Mbit/s  
95th percentile per-packet one-way delay: 63.011 ms  
Loss rate: 0.00%



# Run 1: Report of Sprout — Data Link





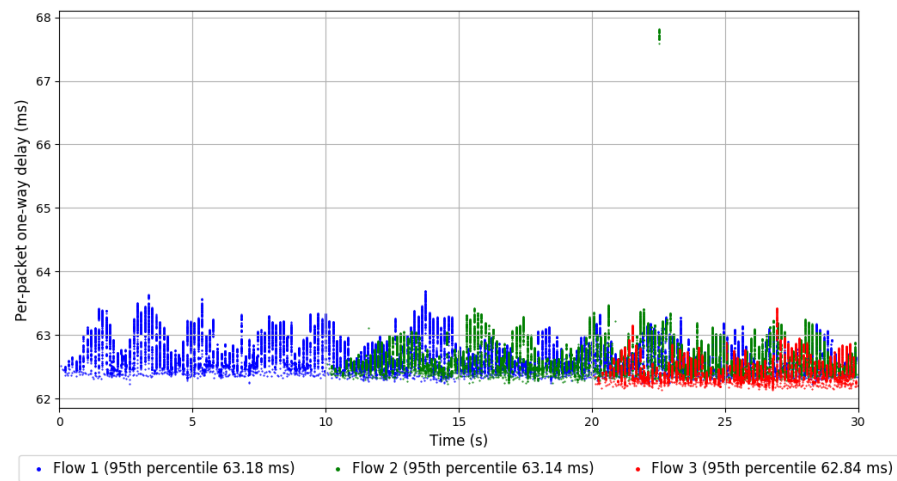
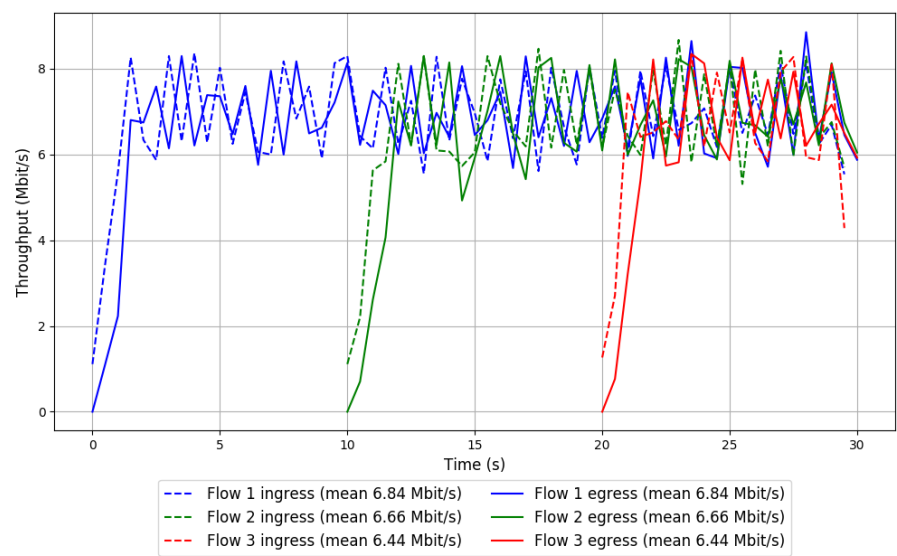
Run 2: Statistics of Sprout

Start at: 2019-01-25 06:06:11  
End at: 2019-01-25 06:06:41  
Local clock offset: -0.066 ms  
Remote clock offset: -0.585 ms

# Below is generated by plot.py at 2019-01-25 11:03:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 13.38 Mbit/s  
95th percentile per-packet one-way delay: 63.143 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 6.84 Mbit/s  
95th percentile per-packet one-way delay: 63.179 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 6.66 Mbit/s  
95th percentile per-packet one-way delay: 63.138 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 6.44 Mbit/s  
95th percentile per-packet one-way delay: 62.836 ms  
Loss rate: 0.00%



Run 2: Report of Sprout — Data Link





### Run 3: Statistics of Sprout

Start at: 2019-01-25 06:43:37

End at: 2019-01-25 06:44:07

Local clock offset: 0.06 ms

Remote clock offset: 0.052 ms

# Below is generated by plot.py at 2019-01-25 11:03:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 13.35 Mbit/s

95th percentile per-packet one-way delay: 63.492 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.82 Mbit/s

95th percentile per-packet one-way delay: 63.317 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.62 Mbit/s

95th percentile per-packet one-way delay: 63.376 ms

Loss rate: 0.00%

-- Flow 3:

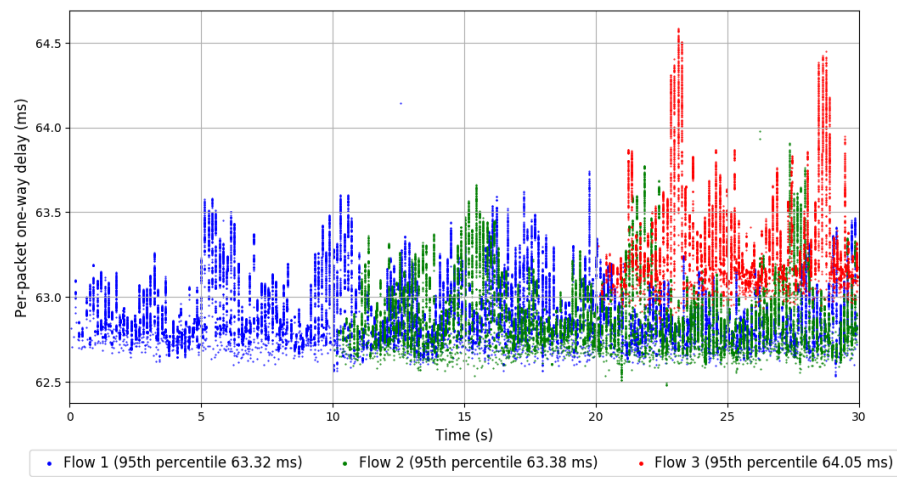
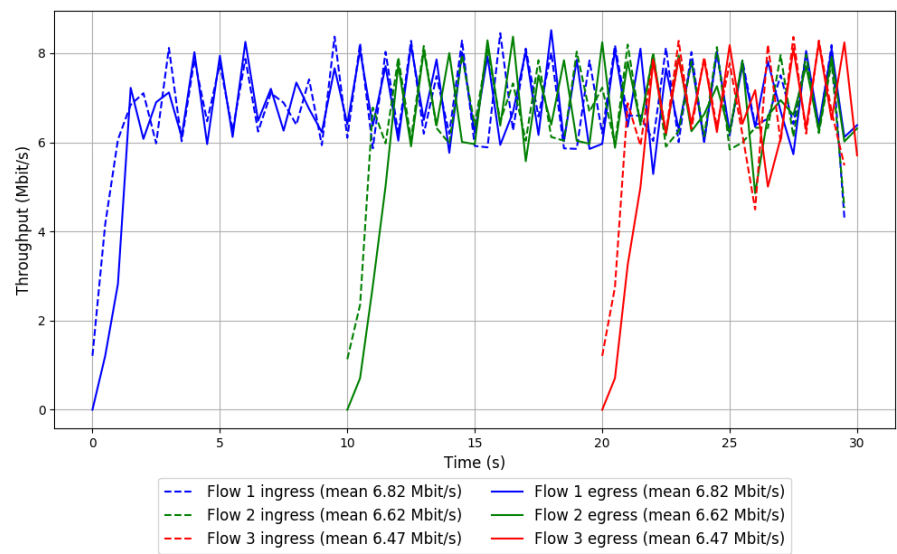
Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 64.045 ms

Loss rate: 0.00%



Run 3: Report of Sprout — Data Link





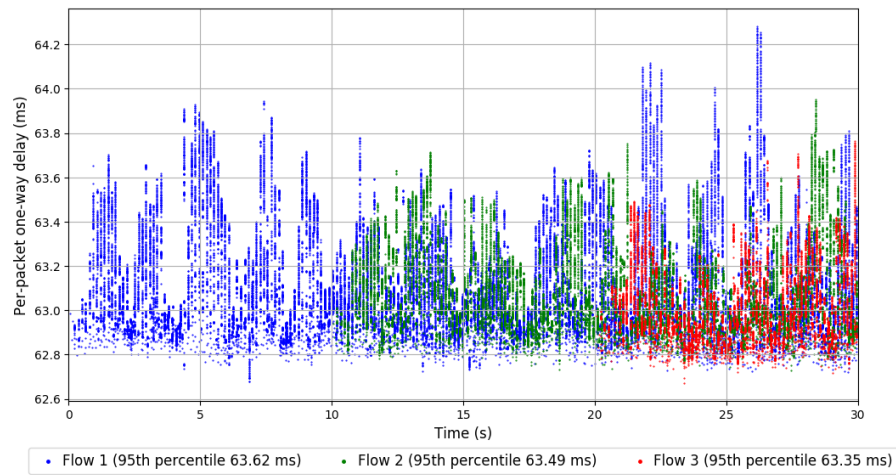
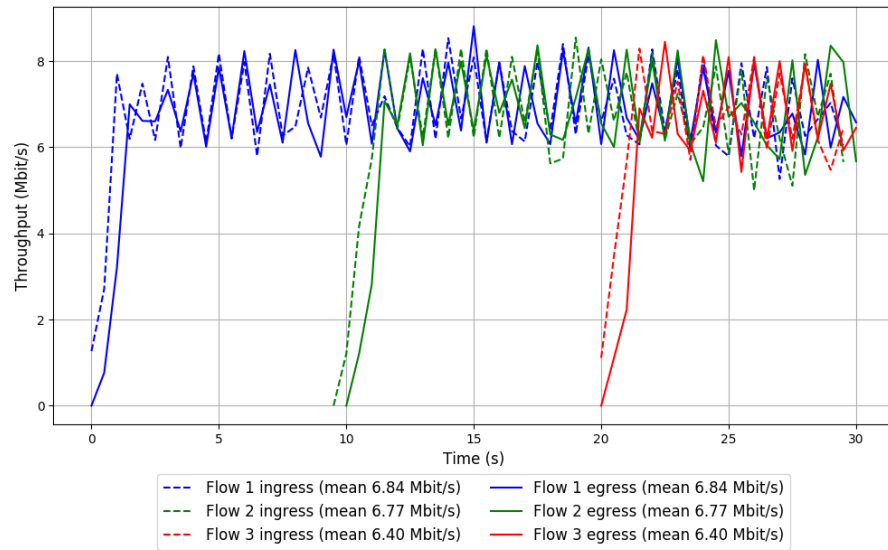
#### Run 4: Statistics of Sprout

Start at: 2019-01-25 07:20:43  
End at: 2019-01-25 07:21:13  
Local clock offset: 0.14 ms  
Remote clock offset: -0.165 ms

```
# Below is generated by plot.py at 2019-01-25 11:03:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.46 Mbit/s
95th percentile per-packet one-way delay: 63.544 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.84 Mbit/s
95th percentile per-packet one-way delay: 63.621 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.77 Mbit/s
95th percentile per-packet one-way delay: 63.491 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.40 Mbit/s
95th percentile per-packet one-way delay: 63.349 ms
Loss rate: 0.00%
```



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





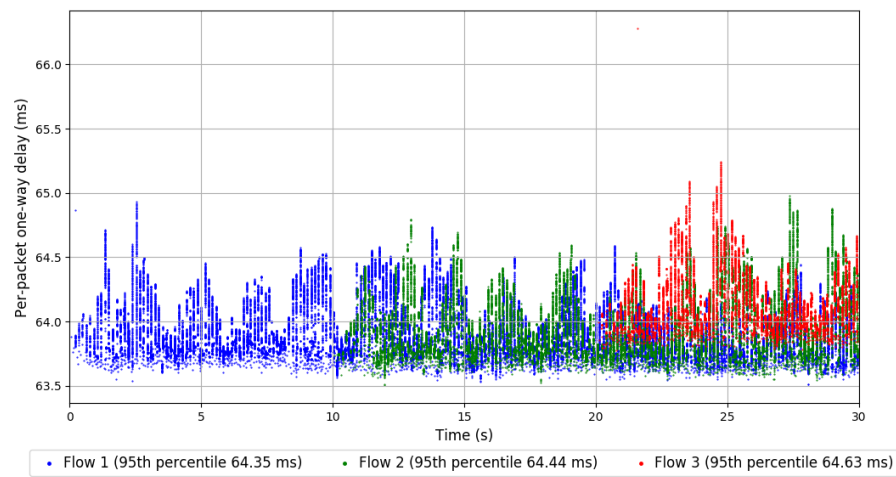
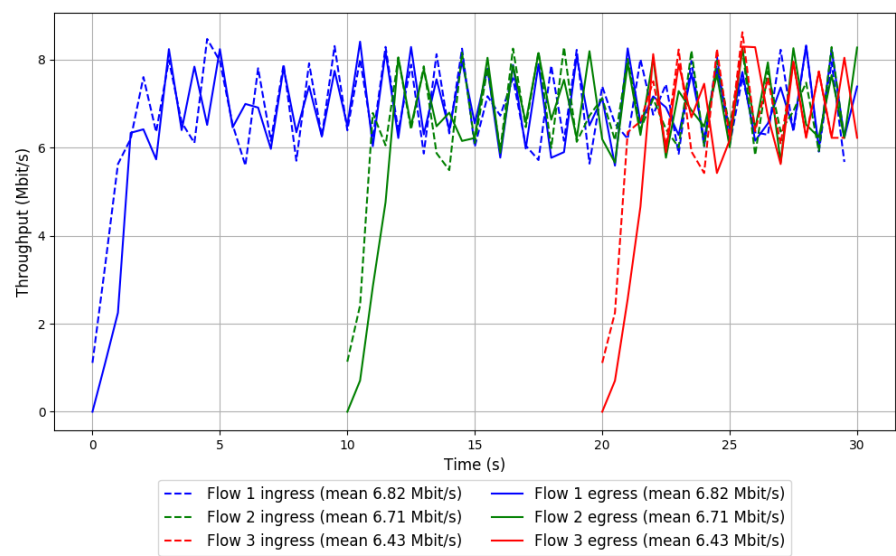
Run 5: Statistics of Sprout

Start at: 2019-01-25 07:58:00  
End at: 2019-01-25 07:58:30  
Local clock offset: -0.054 ms  
Remote clock offset: 0.636 ms

```
# Below is generated by plot.py at 2019-01-25 11:03:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.40 Mbit/s
95th percentile per-packet one-way delay: 64.428 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.82 Mbit/s
95th percentile per-packet one-way delay: 64.348 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.71 Mbit/s
95th percentile per-packet one-way delay: 64.442 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.43 Mbit/s
95th percentile per-packet one-way delay: 64.628 ms
Loss rate: 0.00%
```



Run 5: Report of Sprout — Data Link





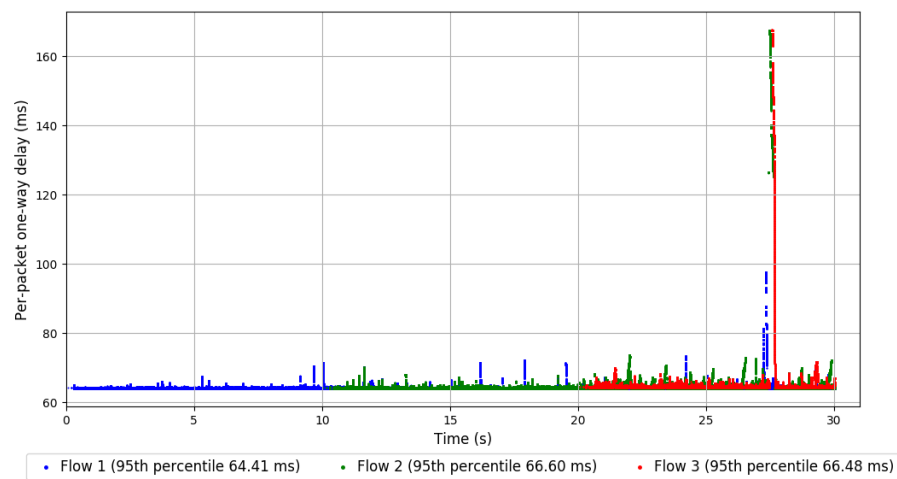
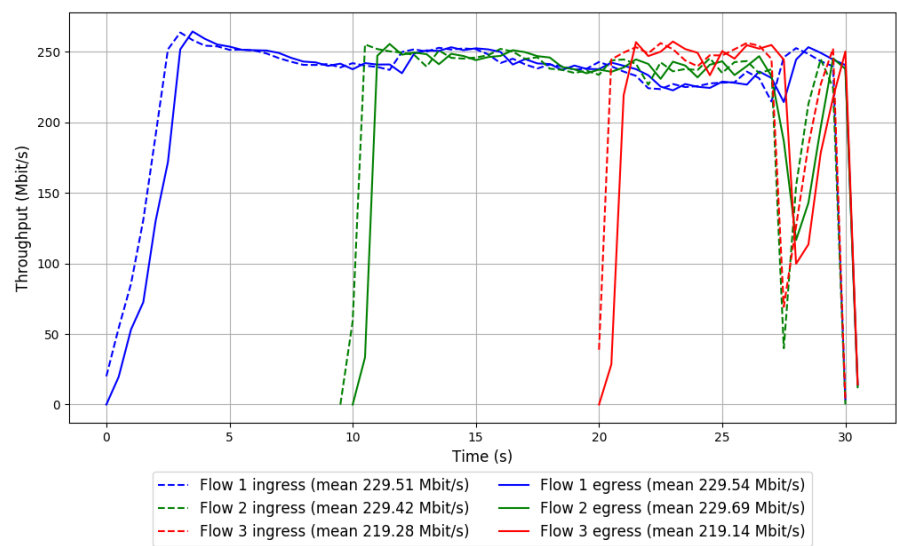
```
Run 1: Statistics of TaoVA-100x

Start at: 2019-01-25 05:41:37
End at: 2019-01-25 05:42:07
Local clock offset: -0.026 ms
Remote clock offset: 1.114 ms

# Below is generated by plot.py at 2019-01-25 11:09:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 455.51 Mbit/s
95th percentile per-packet one-way delay: 65.593 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 229.54 Mbit/s
95th percentile per-packet one-way delay: 64.409 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 229.69 Mbit/s
95th percentile per-packet one-way delay: 66.596 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 219.14 Mbit/s
95th percentile per-packet one-way delay: 66.480 ms
Loss rate: 0.48%
```



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





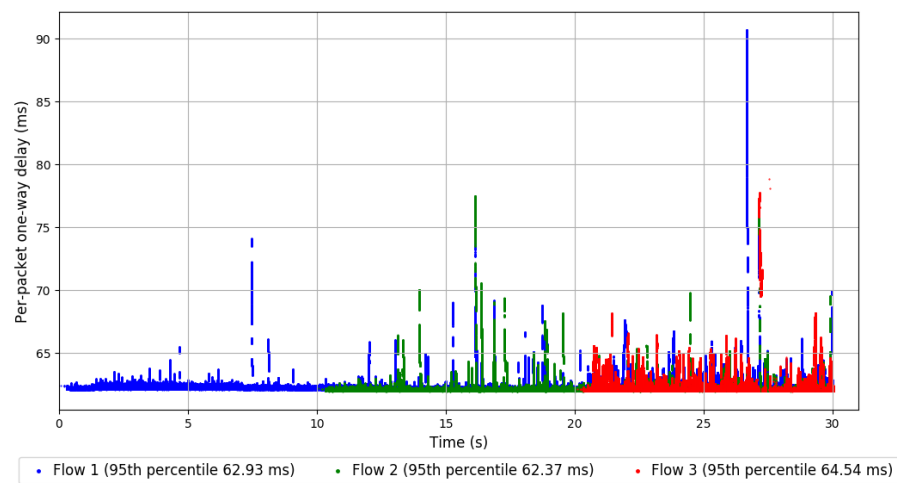
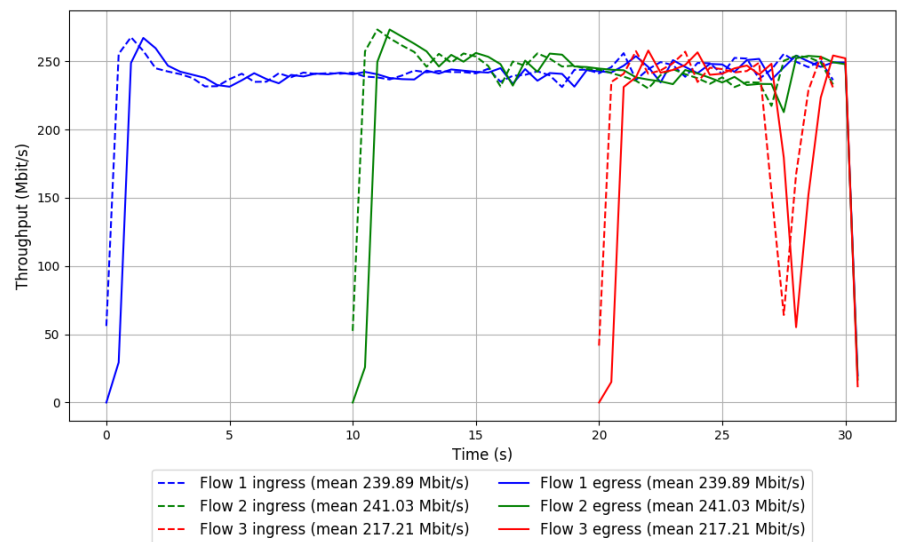
Run 2: Statistics of TaoVA-100x

Start at: 2019-01-25 06:18:58  
End at: 2019-01-25 06:19:28  
Local clock offset: -0.085 ms  
Remote clock offset: -0.614 ms

# Below is generated by plot.py at 2019-01-25 11:10:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 472.50 Mbit/s  
95th percentile per-packet one-way delay: 63.159 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 239.89 Mbit/s  
95th percentile per-packet one-way delay: 62.928 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 241.03 Mbit/s  
95th percentile per-packet one-way delay: 62.365 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 217.21 Mbit/s  
95th percentile per-packet one-way delay: 64.541 ms  
Loss rate: 0.00%



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





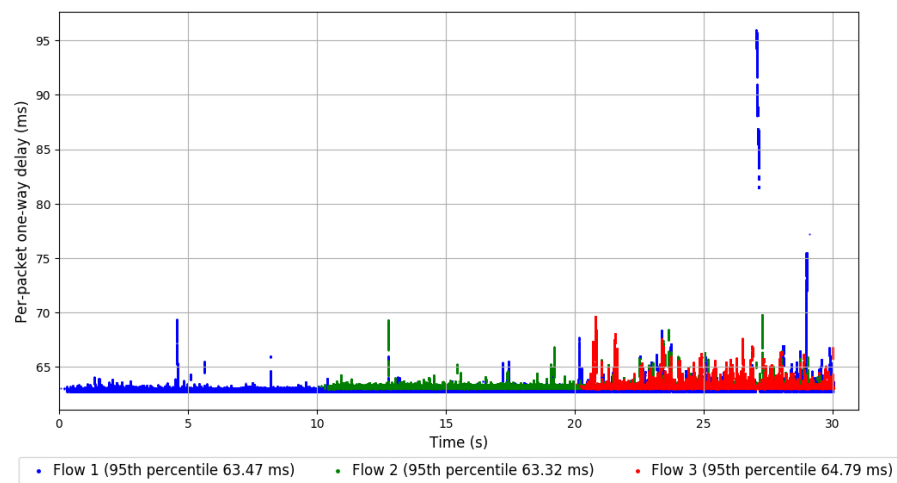
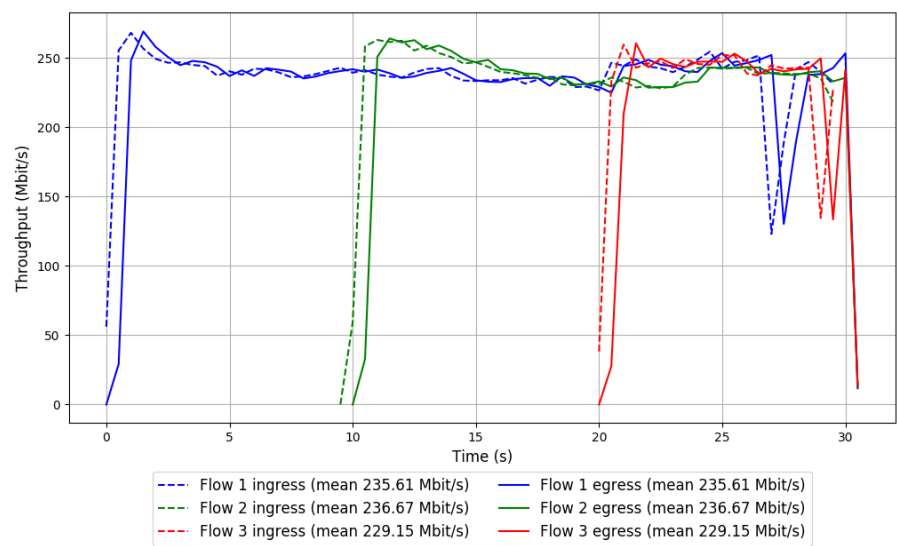
Run 3: Statistics of TaoVA-100x

Start at: 2019-01-25 06:56:13  
End at: 2019-01-25 06:56:43  
Local clock offset: -0.047 ms  
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2019-01-25 11:10:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 469.53 Mbit/s  
95th percentile per-packet one-way delay: 63.684 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 235.61 Mbit/s  
95th percentile per-packet one-way delay: 63.467 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 236.67 Mbit/s  
95th percentile per-packet one-way delay: 63.318 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 229.15 Mbit/s  
95th percentile per-packet one-way delay: 64.791 ms  
Loss rate: 0.00%



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





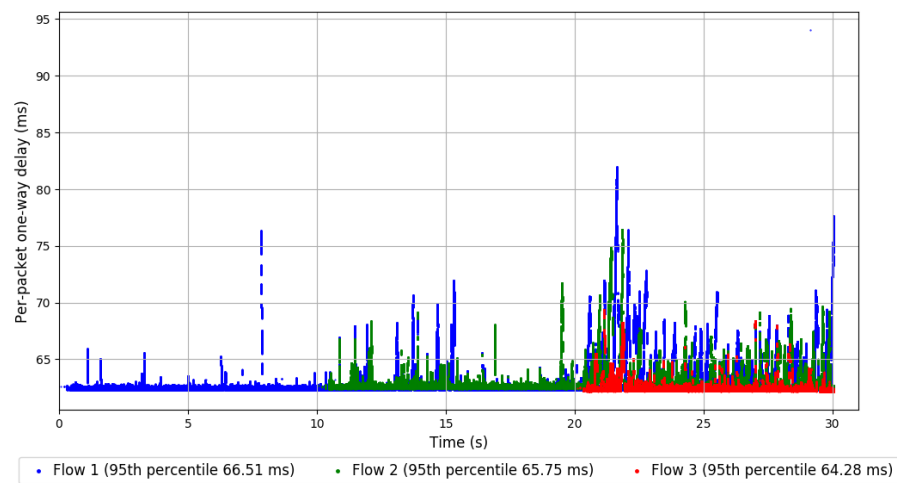
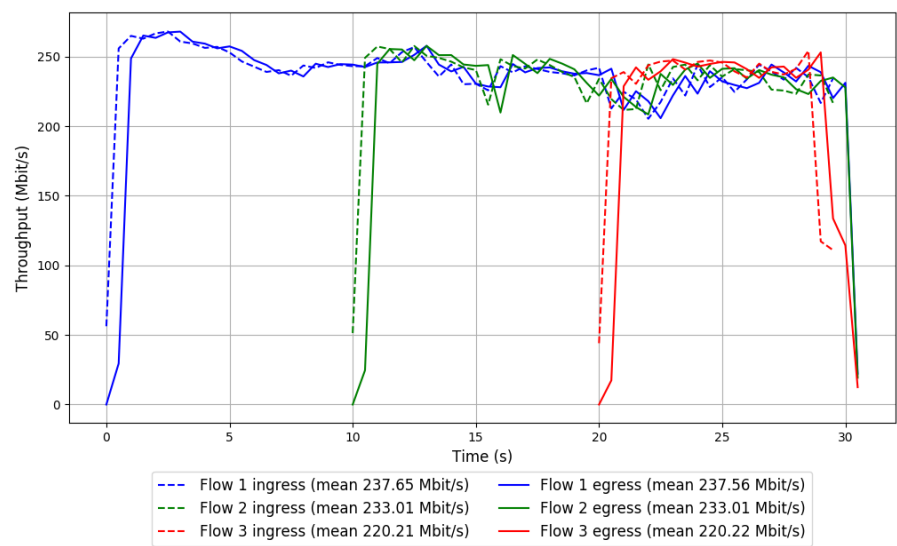
Run 4: Statistics of TaoVA-100x

Start at: 2019-01-25 07:33:26  
End at: 2019-01-25 07:33:56  
Local clock offset: -0.058 ms  
Remote clock offset: -0.588 ms

# Below is generated by plot.py at 2019-01-25 11:10:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 465.87 Mbit/s  
95th percentile per-packet one-way delay: 65.834 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 237.56 Mbit/s  
95th percentile per-packet one-way delay: 66.510 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 233.01 Mbit/s  
95th percentile per-packet one-way delay: 65.746 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 220.22 Mbit/s  
95th percentile per-packet one-way delay: 64.282 ms  
Loss rate: 0.00%



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





Run 5: Statistics of TaoVA-100x

Start at: 2019-01-25 08:10:40

End at: 2019-01-25 08:11:10

Local clock offset: -0.073 ms

Remote clock offset: 0.49 ms

# Below is generated by plot.py at 2019-01-25 11:10:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 455.25 Mbit/s

95th percentile per-packet one-way delay: 63.806 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 232.07 Mbit/s

95th percentile per-packet one-way delay: 63.828 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 228.51 Mbit/s

95th percentile per-packet one-way delay: 63.803 ms

Loss rate: 0.00%

-- Flow 3:

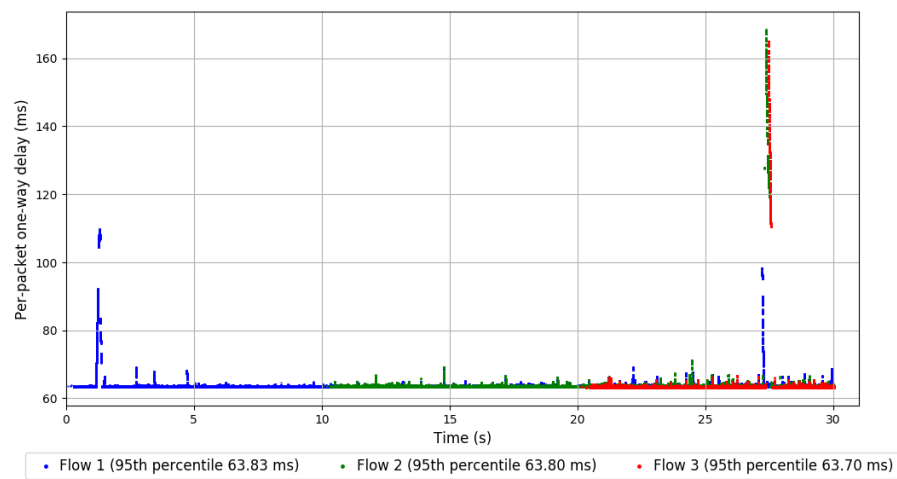
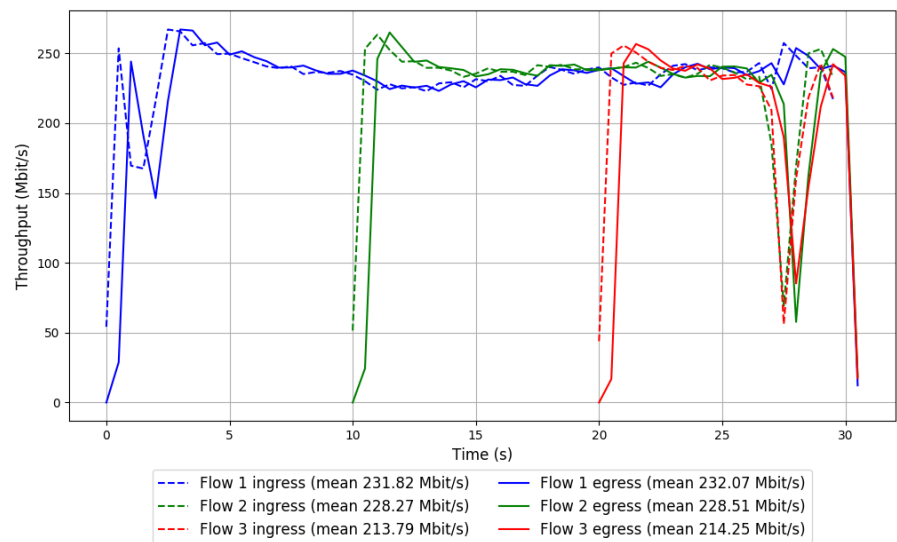
Average throughput: 214.25 Mbit/s

95th percentile per-packet one-way delay: 63.704 ms

Loss rate: 0.00%



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





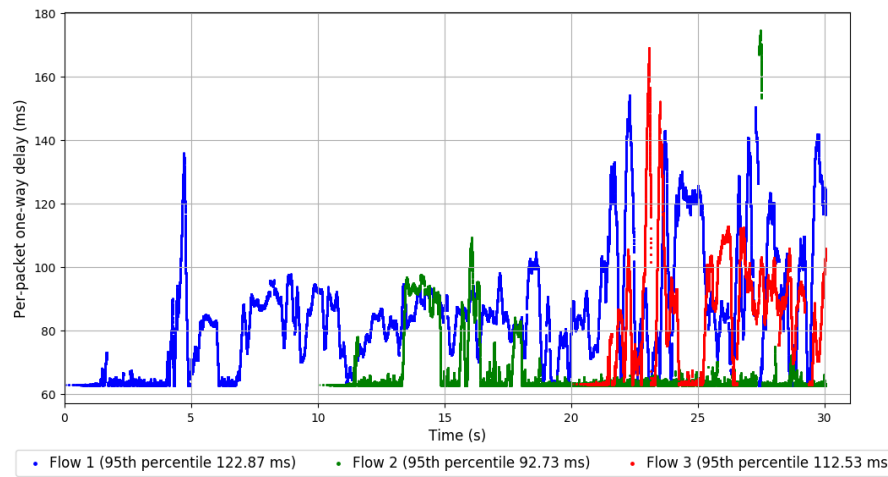
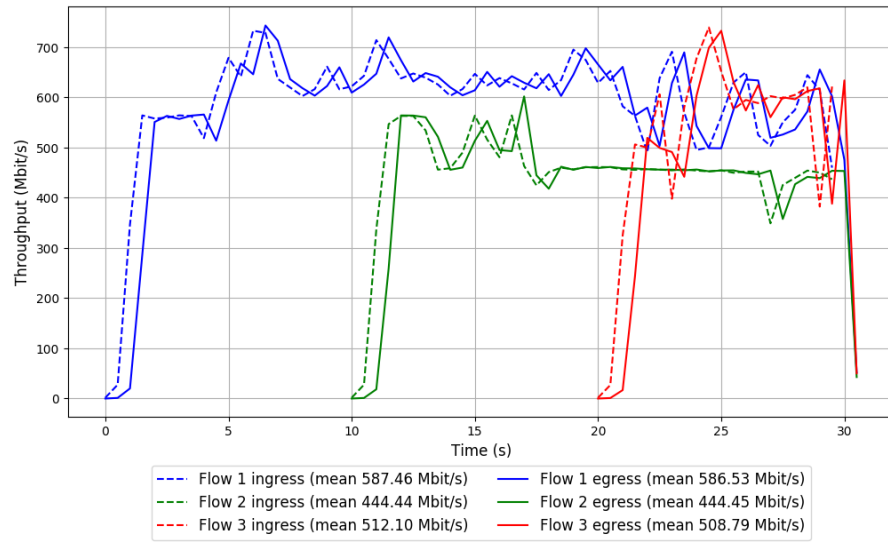
Run 1: Statistics of TCP Vegas

Start at: 2019-01-25 05:33:43  
End at: 2019-01-25 05:34:13  
Local clock offset: 0.004 ms  
Remote clock offset: -0.429 ms

# Below is generated by plot.py at 2019-01-25 11:15:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1051.64 Mbit/s  
95th percentile per-packet one-way delay: 119.179 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 586.53 Mbit/s  
95th percentile per-packet one-way delay: 122.869 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 444.45 Mbit/s  
95th percentile per-packet one-way delay: 92.726 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 508.79 Mbit/s  
95th percentile per-packet one-way delay: 112.527 ms  
Loss rate: 0.65%



# Run 1: Report of TCP Vegas — Data Link





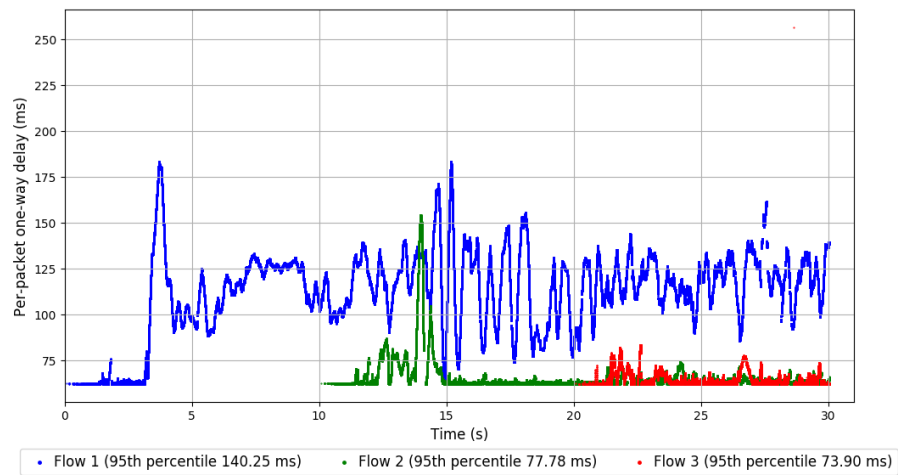
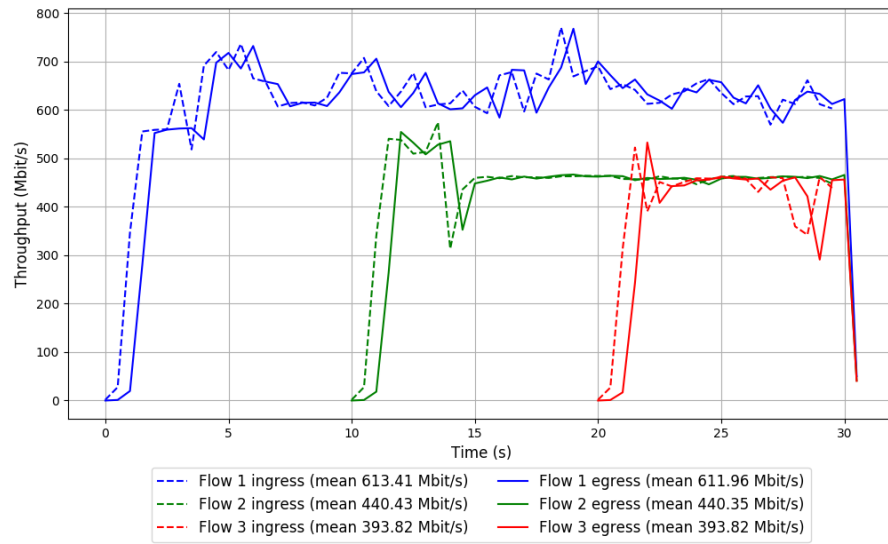
Run 2: Statistics of TCP Vegas

Start at: 2019-01-25 06:11:07  
End at: 2019-01-25 06:11:37  
Local clock offset: 0.069 ms  
Remote clock offset: -0.568 ms

# Below is generated by plot.py at 2019-01-25 11:24:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1036.25 Mbit/s  
95th percentile per-packet one-way delay: 136.328 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 611.96 Mbit/s  
95th percentile per-packet one-way delay: 140.251 ms  
Loss rate: 0.24%  
-- Flow 2:  
Average throughput: 440.35 Mbit/s  
95th percentile per-packet one-way delay: 77.783 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 393.82 Mbit/s  
95th percentile per-packet one-way delay: 73.904 ms  
Loss rate: 0.00%



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





Run 3: Statistics of TCP Vegas

Start at: 2019-01-25 06:48:35

End at: 2019-01-25 06:49:05

Local clock offset: 0.045 ms

Remote clock offset: 0.086 ms

# Below is generated by plot.py at 2019-01-25 11:24:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 866.87 Mbit/s

95th percentile per-packet one-way delay: 83.738 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 432.52 Mbit/s

95th percentile per-packet one-way delay: 65.678 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 434.26 Mbit/s

95th percentile per-packet one-way delay: 74.688 ms

Loss rate: 0.02%

-- Flow 3:

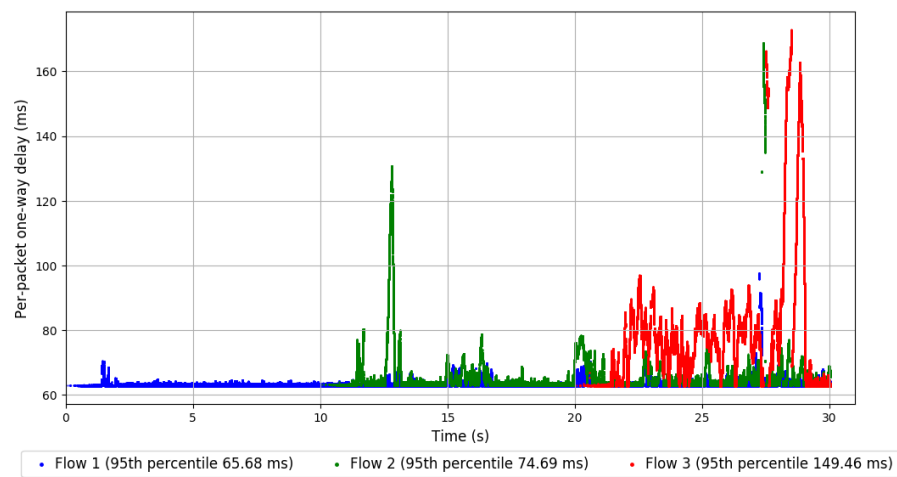
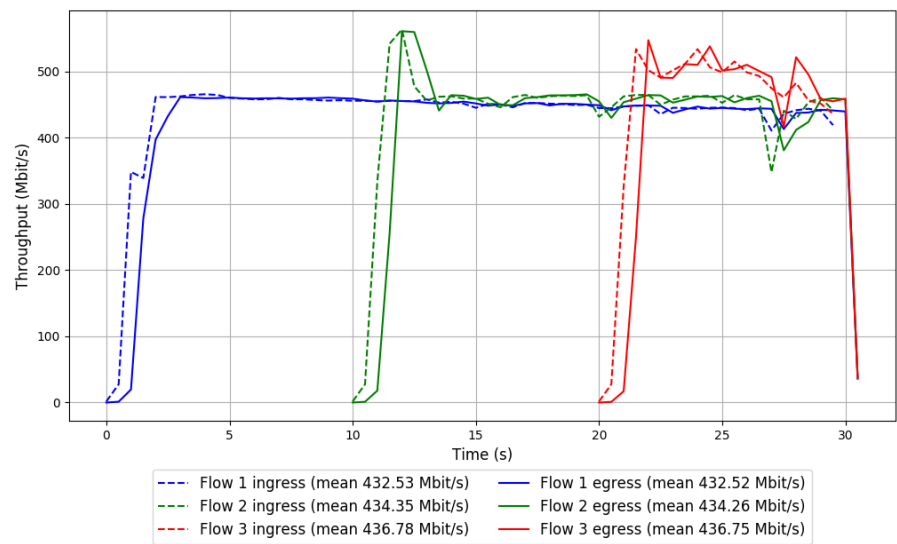
Average throughput: 436.75 Mbit/s

95th percentile per-packet one-way delay: 149.463 ms

Loss rate: 0.00%



Run 3: Report of TCP Vegas — Data Link





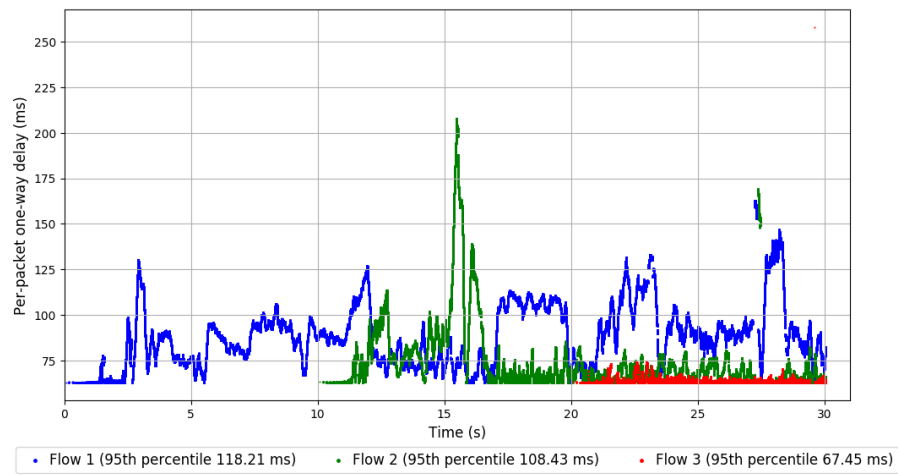
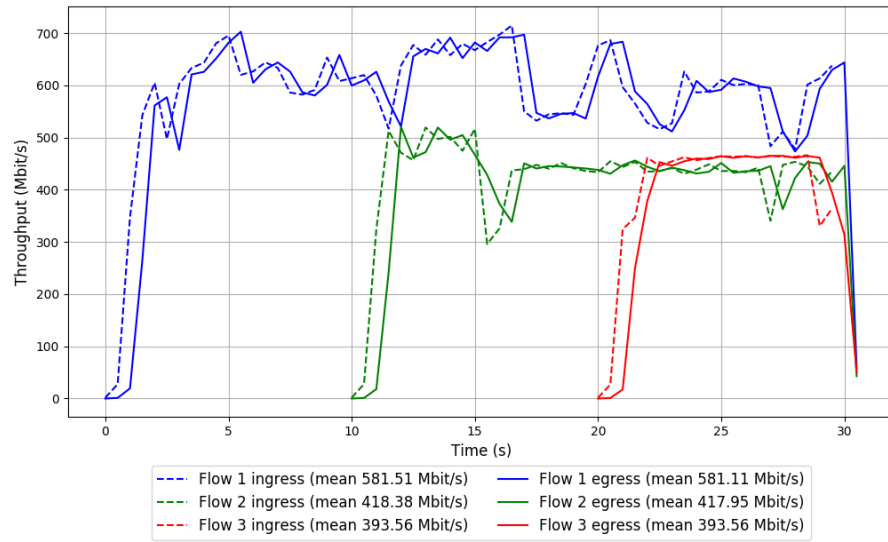
Run 4: Statistics of TCP Vegas

Start at: 2019-01-25 07:25:37  
End at: 2019-01-25 07:26:07  
Local clock offset: -0.04 ms  
Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2019-01-25 11:29:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 990.38 Mbit/s  
95th percentile per-packet one-way delay: 114.797 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 581.11 Mbit/s  
95th percentile per-packet one-way delay: 118.208 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 417.95 Mbit/s  
95th percentile per-packet one-way delay: 108.433 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 393.56 Mbit/s  
95th percentile per-packet one-way delay: 67.446 ms  
Loss rate: 0.00%



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





Run 5: Statistics of TCP Vegas

Start at: 2019-01-25 08:02:59

End at: 2019-01-25 08:03:29

Local clock offset: -0.062 ms

Remote clock offset: 1.231 ms

# Below is generated by plot.py at 2019-01-25 11:29:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 890.06 Mbit/s

95th percentile per-packet one-way delay: 86.929 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 449.20 Mbit/s

95th percentile per-packet one-way delay: 72.799 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 432.44 Mbit/s

95th percentile per-packet one-way delay: 76.506 ms

Loss rate: 0.00%

-- Flow 3:

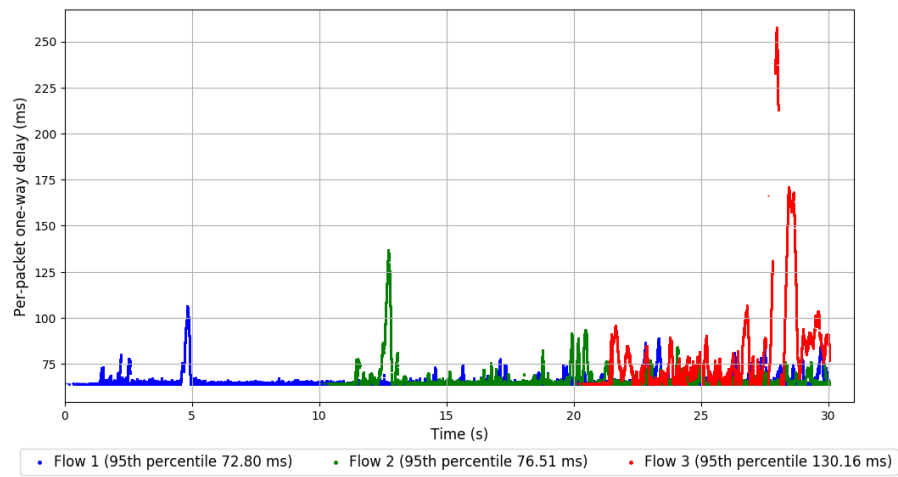
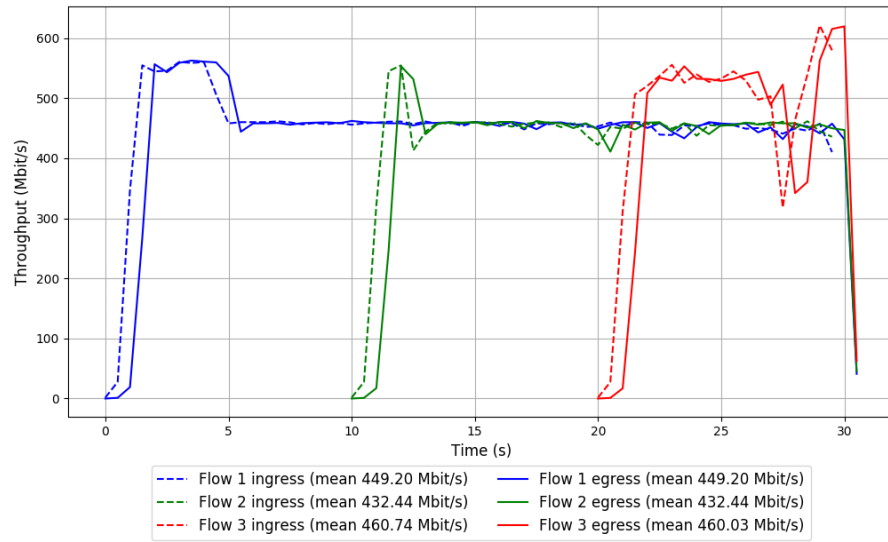
Average throughput: 460.03 Mbit/s

95th percentile per-packet one-way delay: 130.157 ms

Loss rate: 0.15%



# Run 5: Report of TCP Vegas — Data Link





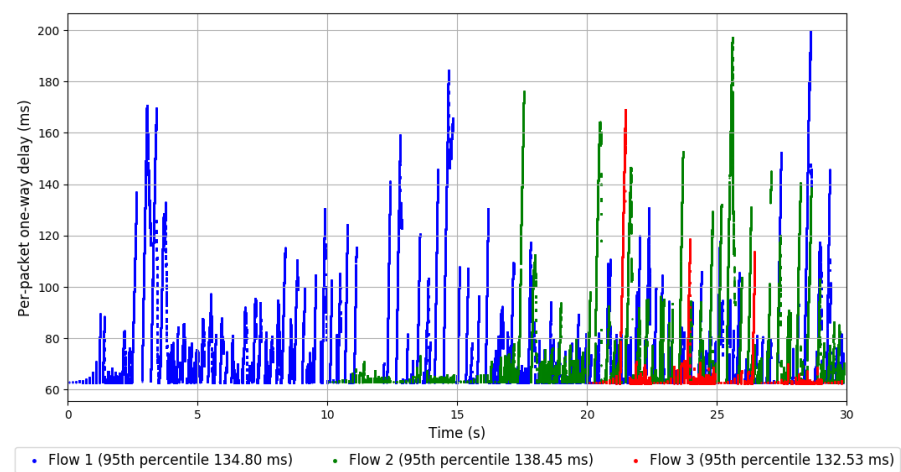
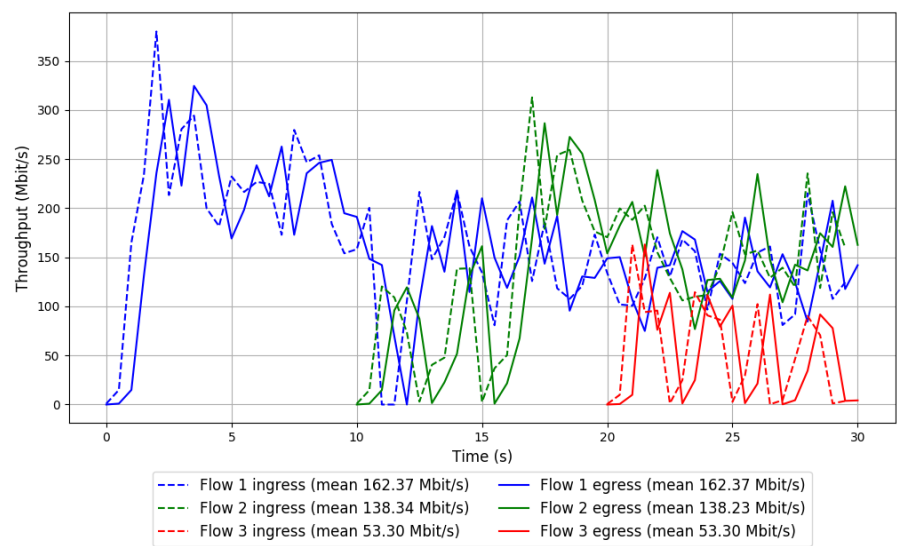
Run 1: Statistics of Verus

Start at: 2019-01-25 05:39:58  
End at: 2019-01-25 05:40:28  
Local clock offset: -0.018 ms  
Remote clock offset: -0.528 ms

# Below is generated by plot.py at 2019-01-25 11:29:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 271.38 Mbit/s  
95th percentile per-packet one-way delay: 136.371 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 162.37 Mbit/s  
95th percentile per-packet one-way delay: 134.803 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 138.23 Mbit/s  
95th percentile per-packet one-way delay: 138.454 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 53.30 Mbit/s  
95th percentile per-packet one-way delay: 132.529 ms  
Loss rate: 0.00%



Run 1: Report of Verus — Data Link





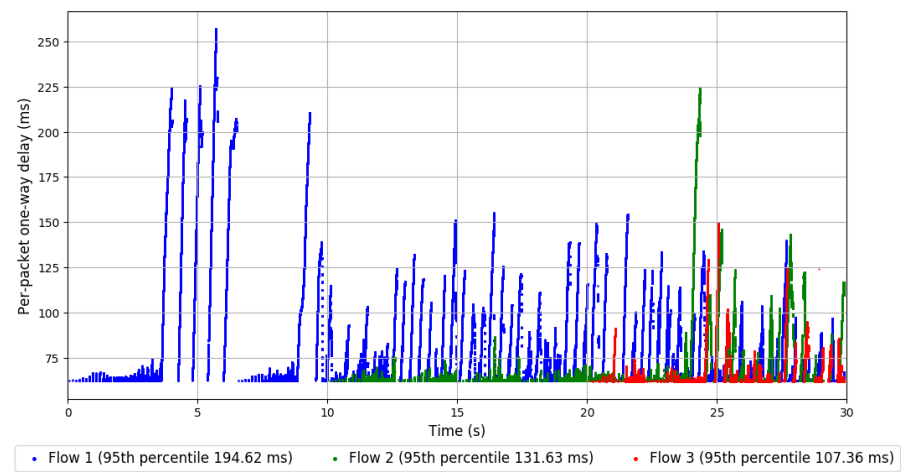
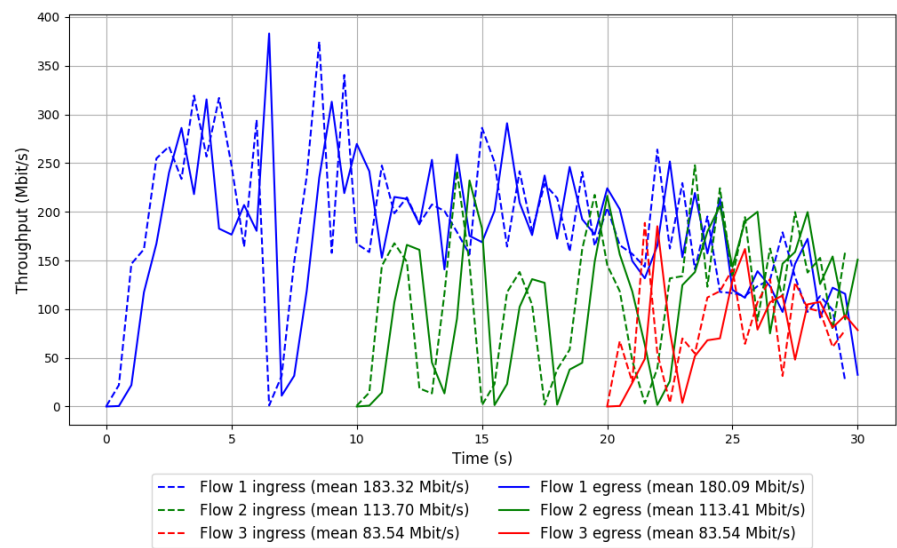
Run 2: Statistics of Verus

Start at: 2019-01-25 06:17:18  
End at: 2019-01-25 06:17:48  
Local clock offset: -0.076 ms  
Remote clock offset: -0.586 ms

# Below is generated by plot.py at 2019-01-25 11:29:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 282.87 Mbit/s  
95th percentile per-packet one-way delay: 181.710 ms  
Loss rate: 1.19%  
-- Flow 1:  
Average throughput: 180.09 Mbit/s  
95th percentile per-packet one-way delay: 194.617 ms  
Loss rate: 1.76%  
-- Flow 2:  
Average throughput: 113.41 Mbit/s  
95th percentile per-packet one-way delay: 131.631 ms  
Loss rate: 0.25%  
-- Flow 3:  
Average throughput: 83.54 Mbit/s  
95th percentile per-packet one-way delay: 107.362 ms  
Loss rate: 0.00%



Run 2: Report of Verus — Data Link





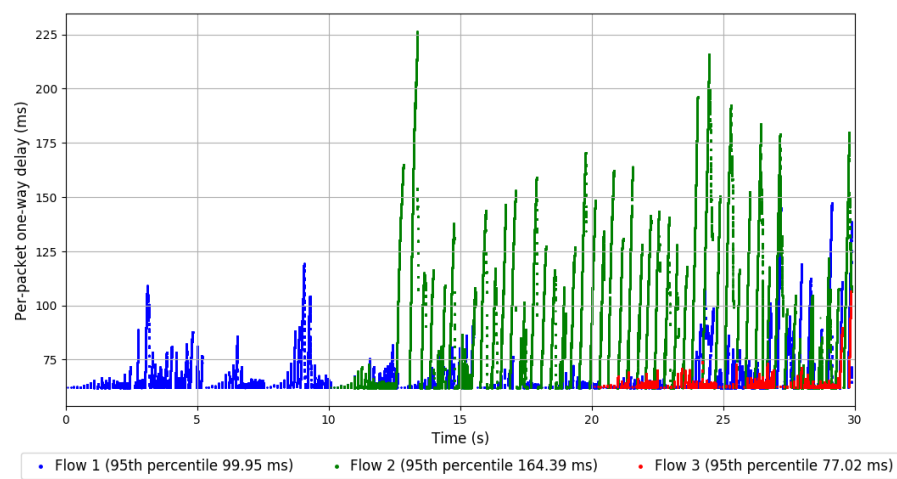
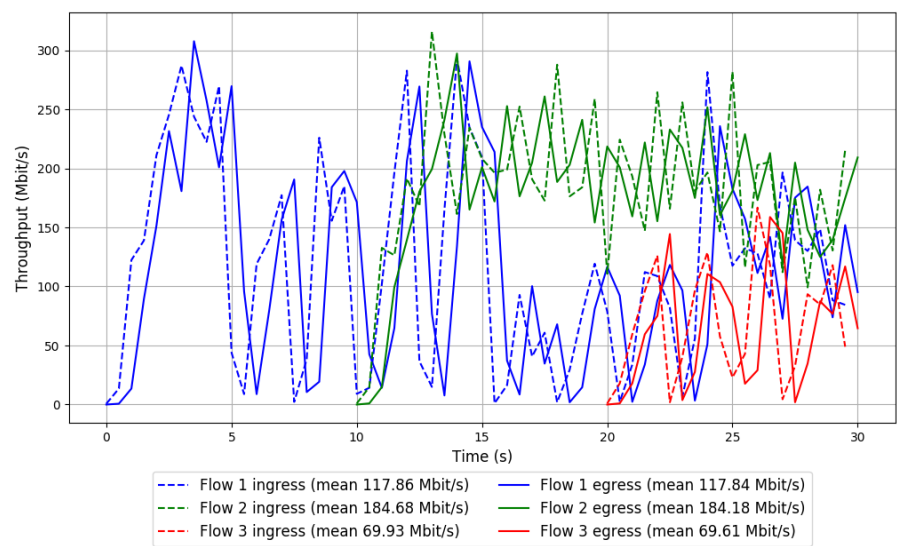
Run 3: Statistics of Verus

Start at: 2019-01-25 06:54:35  
End at: 2019-01-25 06:55:05  
Local clock offset: -0.039 ms  
Remote clock offset: -0.769 ms

# Below is generated by plot.py at 2019-01-25 11:29:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 262.98 Mbit/s  
95th percentile per-packet one-way delay: 146.188 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 117.84 Mbit/s  
95th percentile per-packet one-way delay: 99.955 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 184.18 Mbit/s  
95th percentile per-packet one-way delay: 164.387 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 69.61 Mbit/s  
95th percentile per-packet one-way delay: 77.020 ms  
Loss rate: 0.00%



Run 3: Report of Verus — Data Link





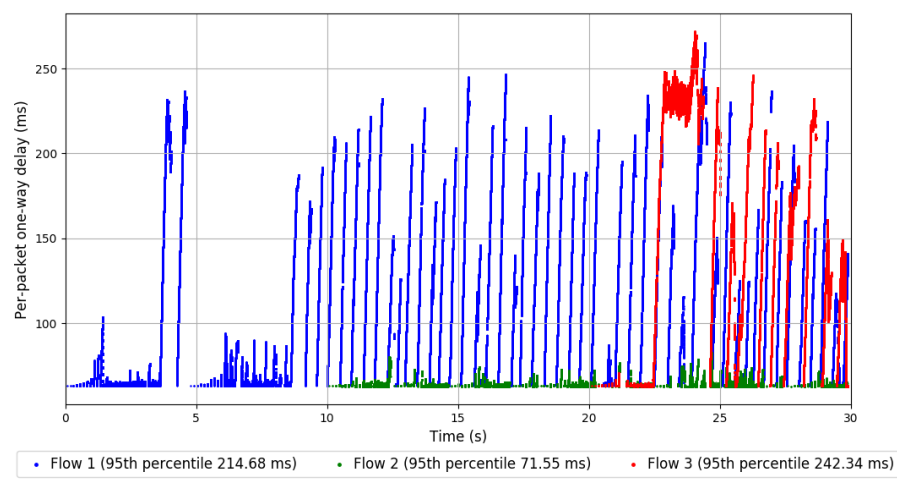
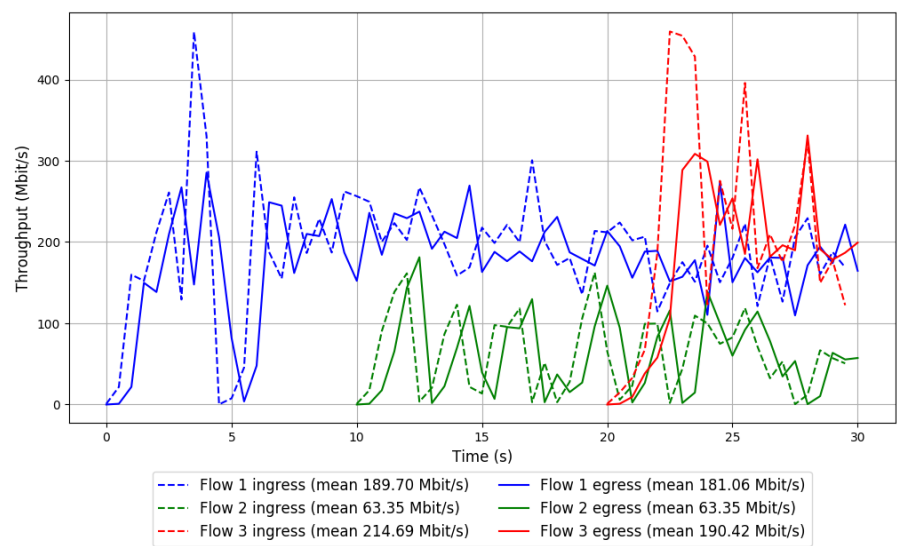
Run 4: Statistics of Verus

Start at: 2019-01-25 07:31:46  
End at: 2019-01-25 07:32:16  
Local clock offset: -0.046 ms  
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-01-25 11:29:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 285.59 Mbit/s  
95th percentile per-packet one-way delay: 229.447 ms  
Loss rate: 5.48%  
-- Flow 1:  
Average throughput: 181.06 Mbit/s  
95th percentile per-packet one-way delay: 214.681 ms  
Loss rate: 4.54%  
-- Flow 2:  
Average throughput: 63.35 Mbit/s  
95th percentile per-packet one-way delay: 71.551 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 190.42 Mbit/s  
95th percentile per-packet one-way delay: 242.345 ms  
Loss rate: 11.31%



Run 4: Report of Verus — Data Link





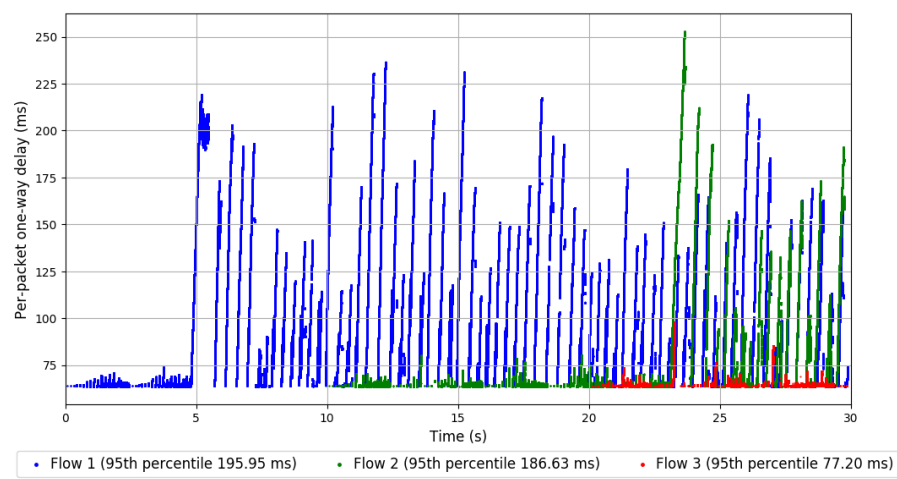
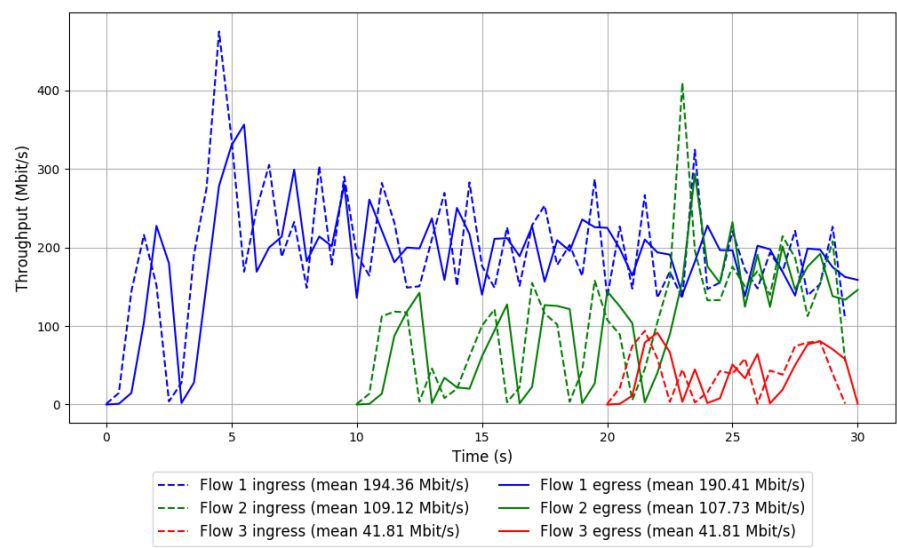
Run 5: Statistics of Verus

Start at: 2019-01-25 08:09:01  
End at: 2019-01-25 08:09:31  
Local clock offset: -0.095 ms  
Remote clock offset: 0.917 ms

# Below is generated by plot.py at 2019-01-25 11:30:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 275.12 Mbit/s  
95th percentile per-packet one-way delay: 192.544 ms  
Loss rate: 1.62%  
-- Flow 1:  
Average throughput: 190.41 Mbit/s  
95th percentile per-packet one-way delay: 195.954 ms  
Loss rate: 2.03%  
-- Flow 2:  
Average throughput: 107.73 Mbit/s  
95th percentile per-packet one-way delay: 186.632 ms  
Loss rate: 0.80%  
-- Flow 3:  
Average throughput: 41.81 Mbit/s  
95th percentile per-packet one-way delay: 77.204 ms  
Loss rate: 0.00%



Run 5: Report of Verus — Data Link





Run 1: Statistics of PCC-Vivace

Start at: 2019-01-25 05:43:33

End at: 2019-01-25 05:44:03

Local clock offset: -0.017 ms

Remote clock offset: 0.065 ms

# Below is generated by plot.py at 2019-01-25 11:30:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 535.67 Mbit/s

95th percentile per-packet one-way delay: 230.648 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 326.48 Mbit/s

95th percentile per-packet one-way delay: 249.865 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 238.31 Mbit/s

95th percentile per-packet one-way delay: 66.690 ms

Loss rate: 0.00%

-- Flow 3:

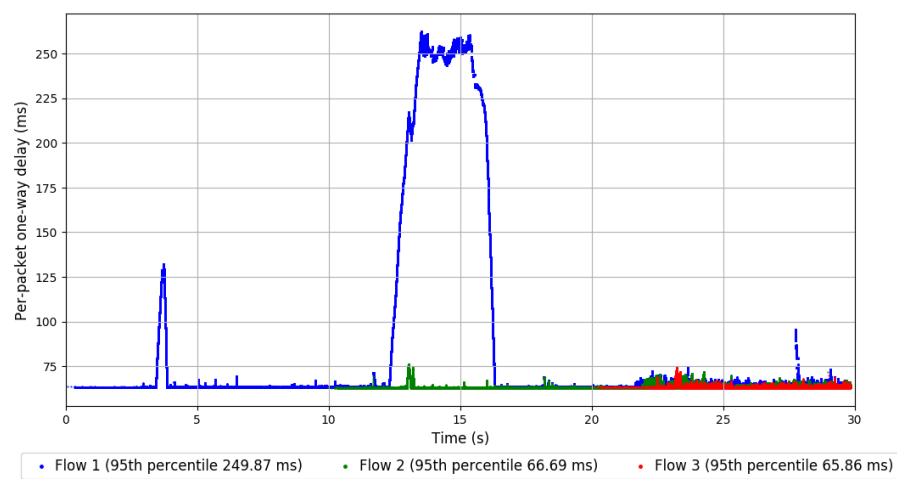
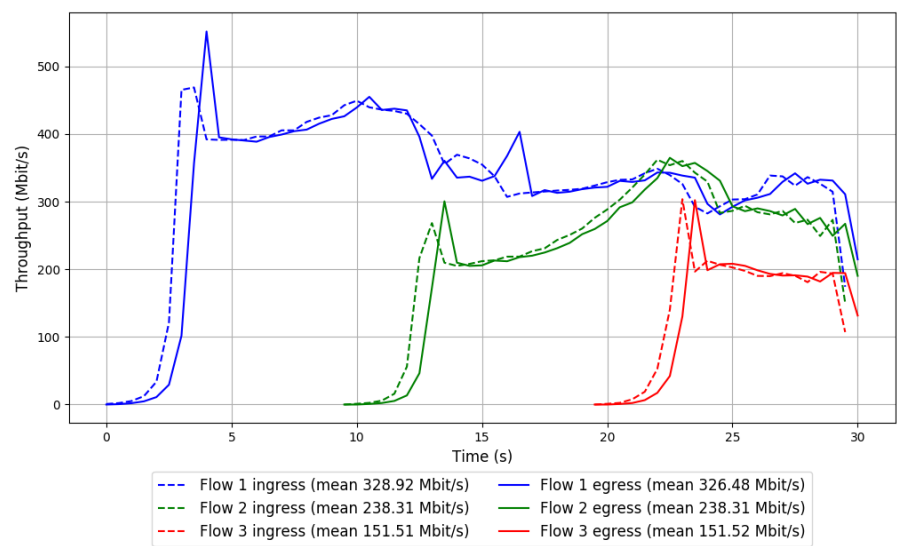
Average throughput: 151.52 Mbit/s

95th percentile per-packet one-way delay: 65.857 ms

Loss rate: 0.00%



Run 1: Report of PCC-Vivace — Data Link





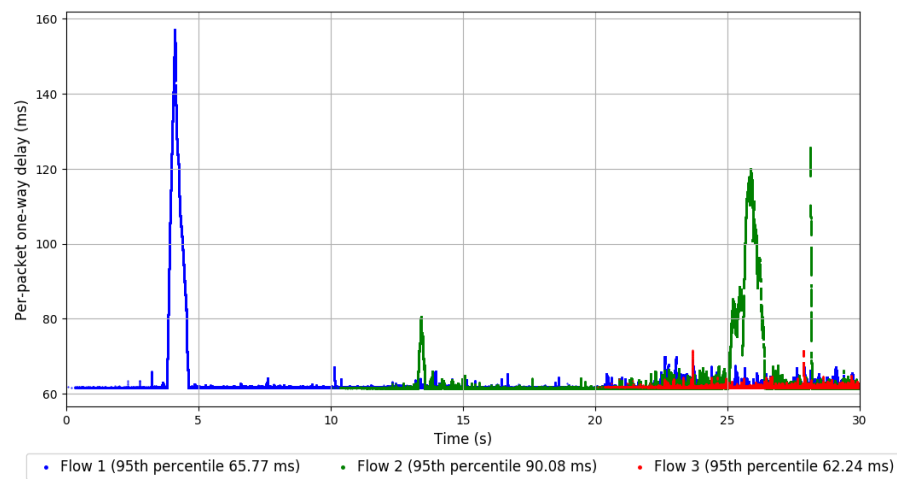
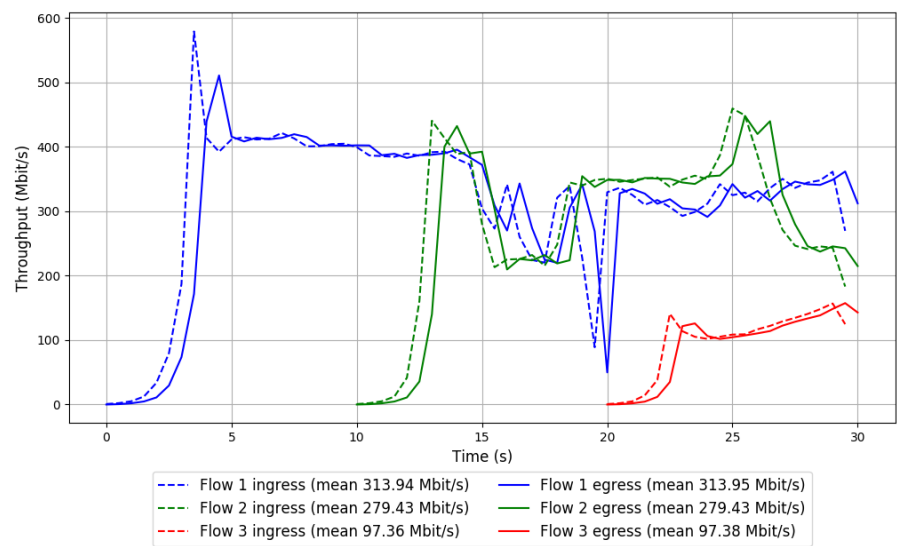
Run 2: Statistics of PCC-Vivace

Start at: 2019-01-25 06:20:55  
End at: 2019-01-25 06:21:25  
Local clock offset: -0.083 ms  
Remote clock offset: -1.152 ms

# Below is generated by plot.py at 2019-01-25 11:31:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 531.85 Mbit/s  
95th percentile per-packet one-way delay: 80.617 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 313.95 Mbit/s  
95th percentile per-packet one-way delay: 65.765 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 279.43 Mbit/s  
95th percentile per-packet one-way delay: 90.079 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 97.38 Mbit/s  
95th percentile per-packet one-way delay: 62.239 ms  
Loss rate: 0.00%



Run 2: Report of PCC-Vivace — Data Link





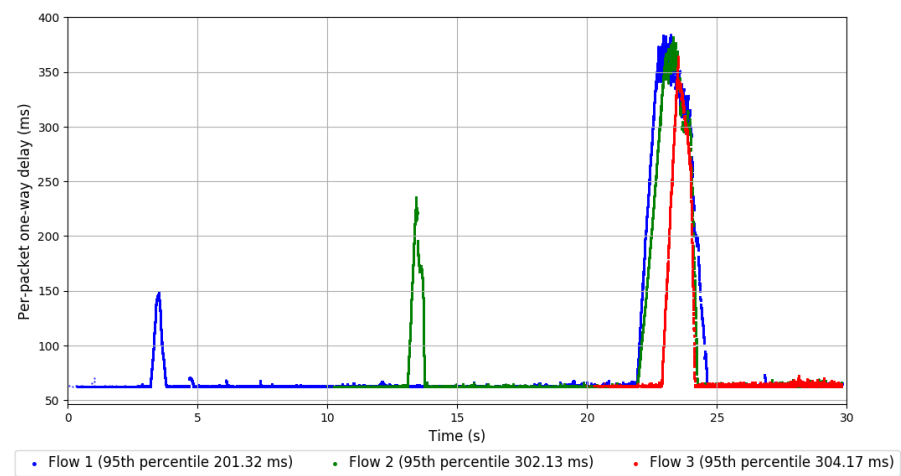
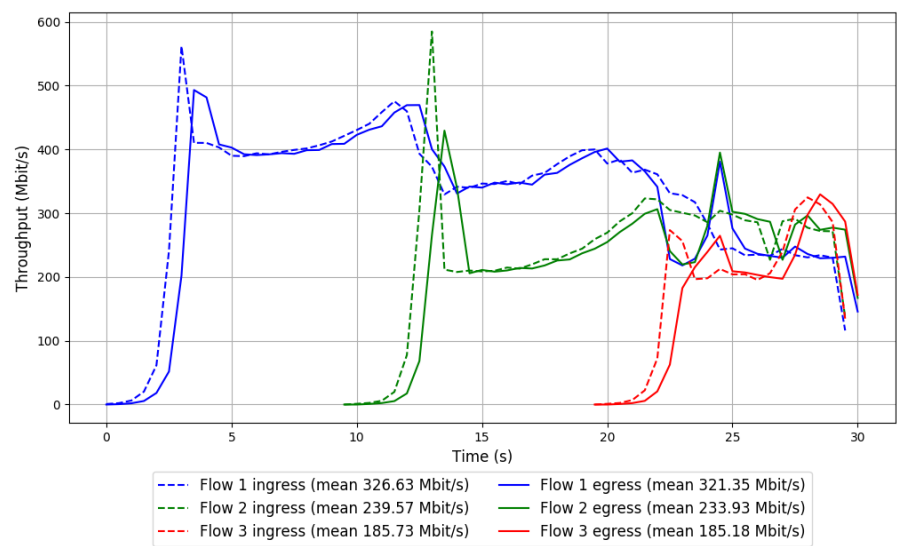
Run 3: Statistics of PCC-Vivace

Start at: 2019-01-25 06:58:11  
End at: 2019-01-25 06:58:41  
Local clock offset: -0.032 ms  
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2019-01-25 11:31:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 538.84 Mbit/s  
95th percentile per-packet one-way delay: 279.932 ms  
Loss rate: 1.68%  
-- Flow 1:  
Average throughput: 321.35 Mbit/s  
95th percentile per-packet one-way delay: 201.322 ms  
Loss rate: 1.61%  
-- Flow 2:  
Average throughput: 233.93 Mbit/s  
95th percentile per-packet one-way delay: 302.126 ms  
Loss rate: 2.35%  
-- Flow 3:  
Average throughput: 185.18 Mbit/s  
95th percentile per-packet one-way delay: 304.170 ms  
Loss rate: 0.30%



Run 3: Report of PCC-Vivace — Data Link





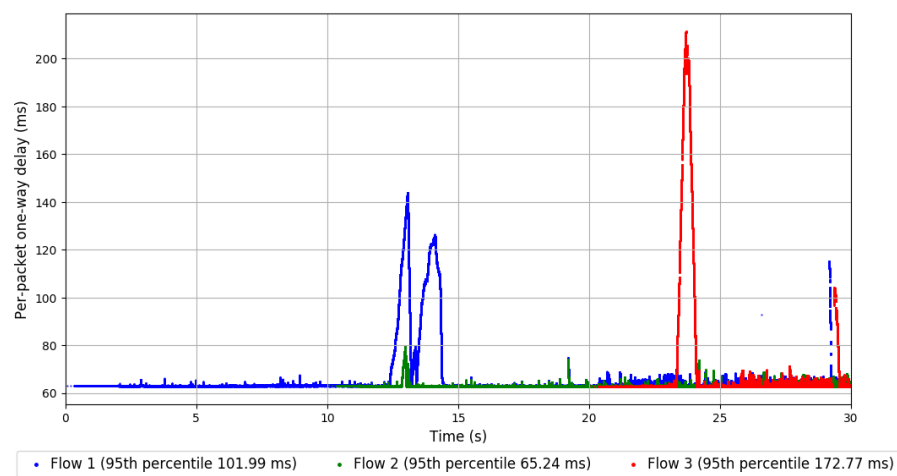
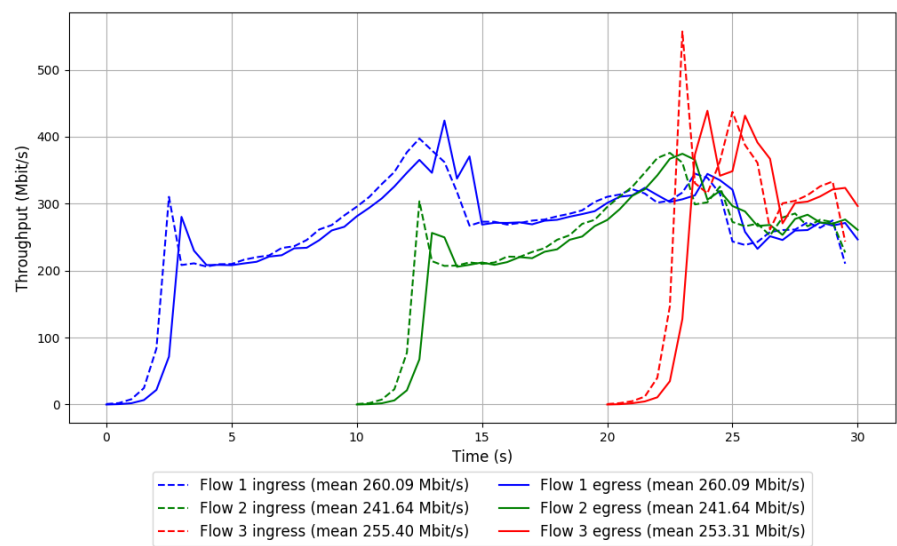
Run 4: Statistics of PCC-Vivace

Start at: 2019-01-25 07:35:23  
End at: 2019-01-25 07:35:53  
Local clock offset: -0.046 ms  
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2019-01-25 11:31:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 504.35 Mbit/s  
95th percentile per-packet one-way delay: 93.398 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 260.09 Mbit/s  
95th percentile per-packet one-way delay: 101.993 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 241.64 Mbit/s  
95th percentile per-packet one-way delay: 65.236 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 253.31 Mbit/s  
95th percentile per-packet one-way delay: 172.768 ms  
Loss rate: 0.82%



Run 4: Report of PCC-Vivace — Data Link





Run 5: Statistics of PCC-Vivace

Start at: 2019-01-25 08:12:37

End at: 2019-01-25 08:13:07

Local clock offset: -0.077 ms

Remote clock offset: 0.109 ms

# Below is generated by plot.py at 2019-01-25 11:31:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 559.75 Mbit/s

95th percentile per-packet one-way delay: 80.895 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 353.39 Mbit/s

95th percentile per-packet one-way delay: 86.083 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 206.09 Mbit/s

95th percentile per-packet one-way delay: 65.632 ms

Loss rate: 0.00%

-- Flow 3:

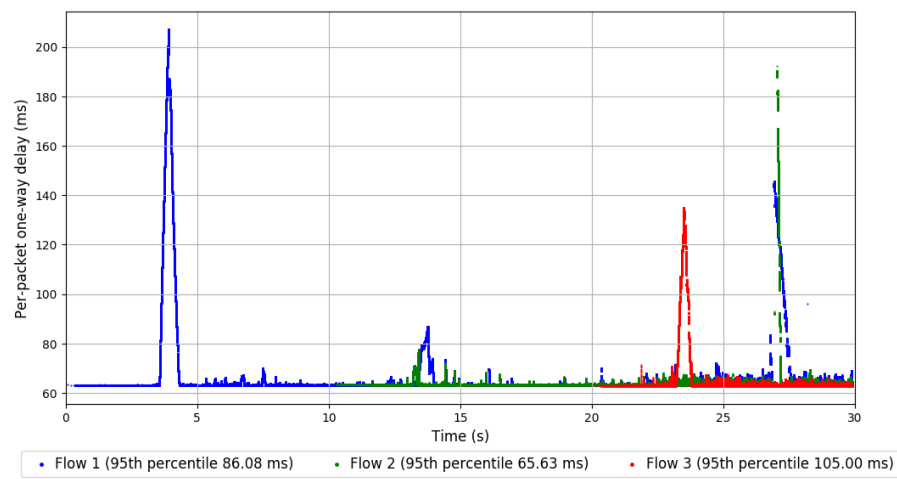
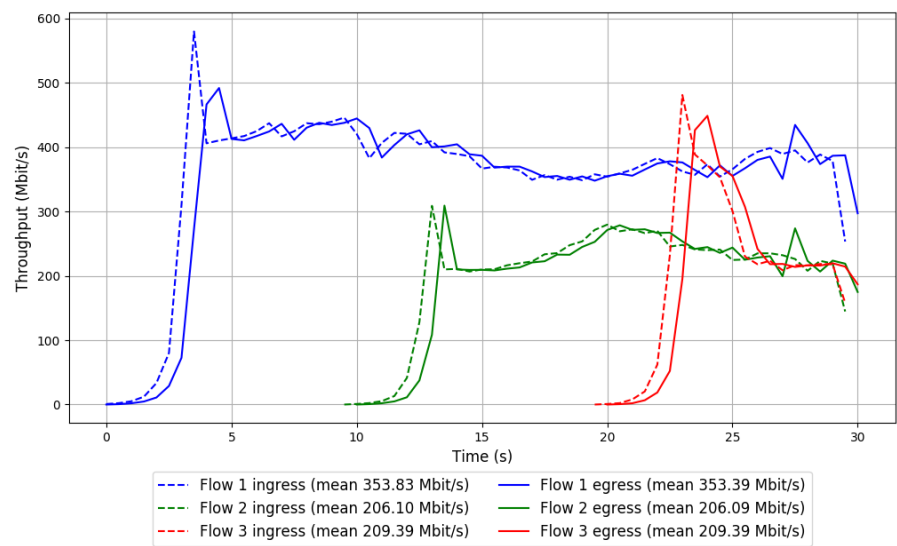
Average throughput: 209.39 Mbit/s

95th percentile per-packet one-way delay: 105.000 ms

Loss rate: 0.00%



Run 5: Report of PCC-Vivace — Data Link





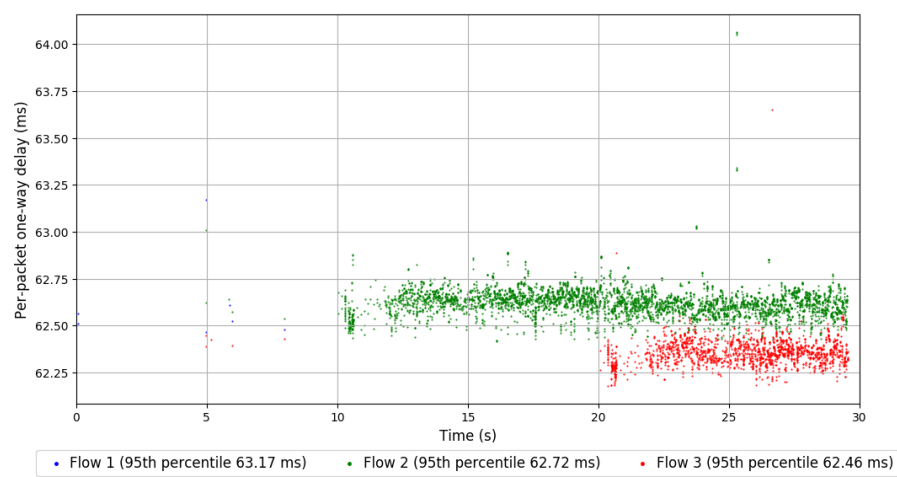
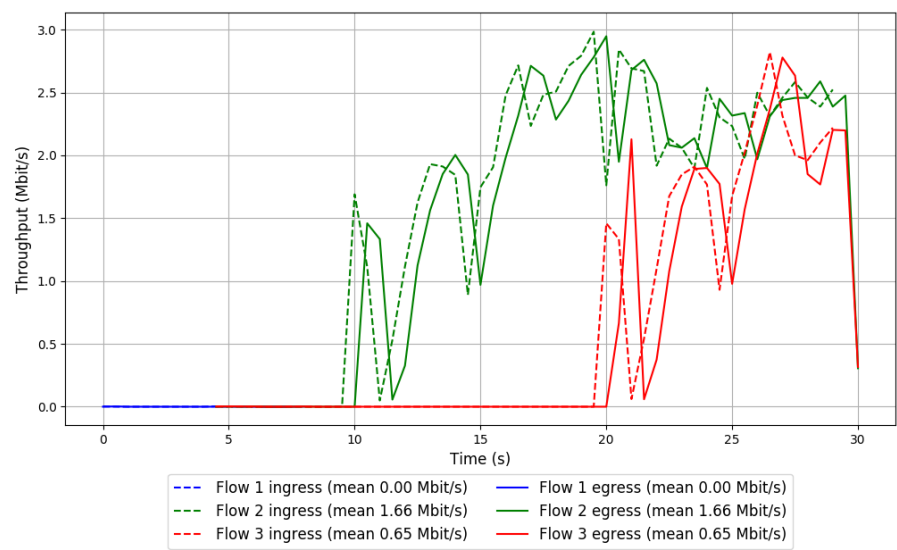
Run 1: Statistics of WebRTC media

Start at: 2019-01-25 05:23:33  
End at: 2019-01-25 05:24:03  
Local clock offset: -0.019 ms  
Remote clock offset: -1.008 ms

# Below is generated by plot.py at 2019-01-25 11:31:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.93 Mbit/s  
95th percentile per-packet one-way delay: 62.706 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 63.171 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.66 Mbit/s  
95th percentile per-packet one-way delay: 62.720 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.65 Mbit/s  
95th percentile per-packet one-way delay: 62.456 ms  
Loss rate: 0.00%



Run 1: Report of WebRTC media — Data Link





Run 2: Statistics of WebRTC media

Start at: 2019-01-25 06:00:54

End at: 2019-01-25 06:01:24

Local clock offset: -0.108 ms

Remote clock offset: 1.341 ms

# Below is generated by plot.py at 2019-01-25 11:31:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 64.702 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 64.447 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 64.584 ms

Loss rate: 0.00%

-- Flow 3:

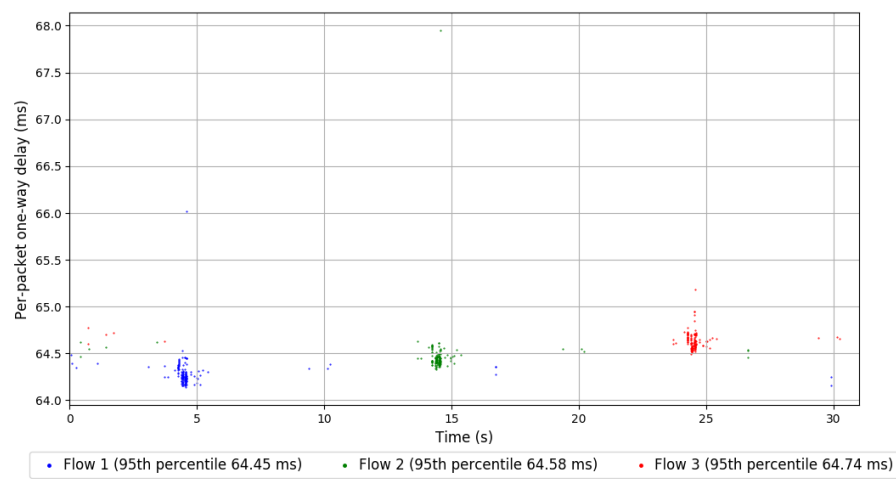
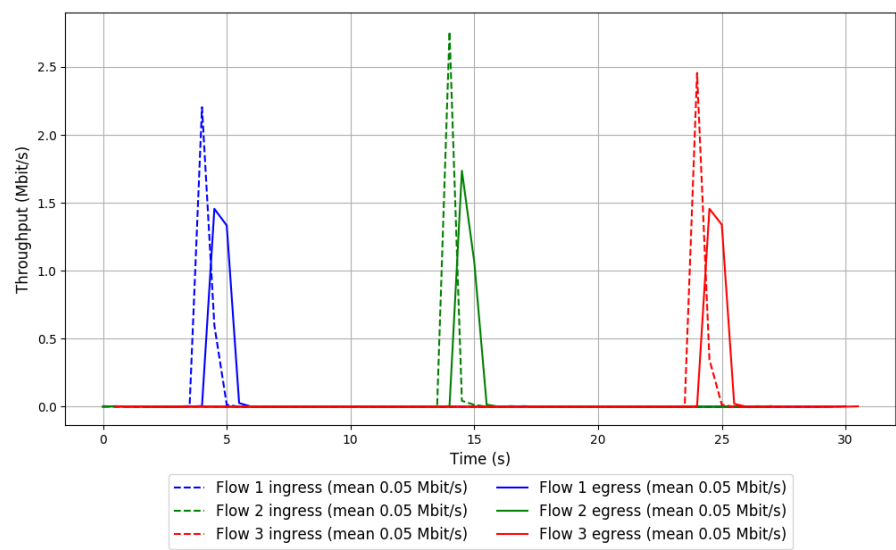
Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 64.741 ms

Loss rate: 0.00%



Run 2: Report of WebRTC media — Data Link





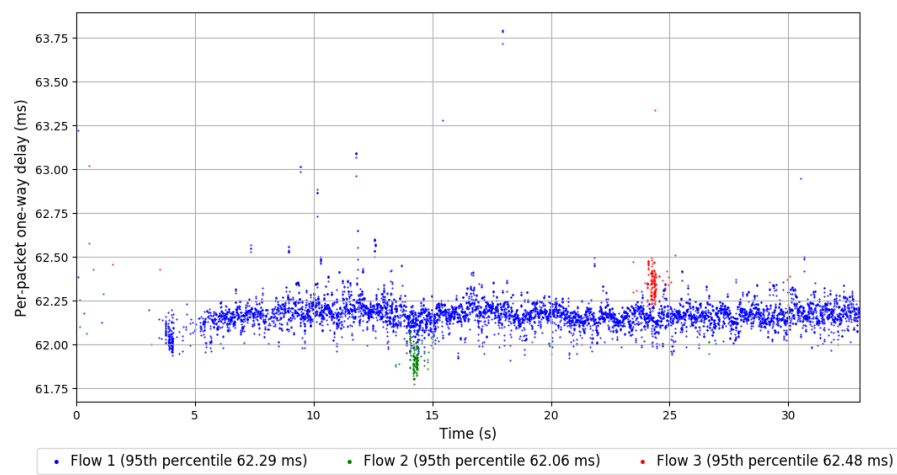
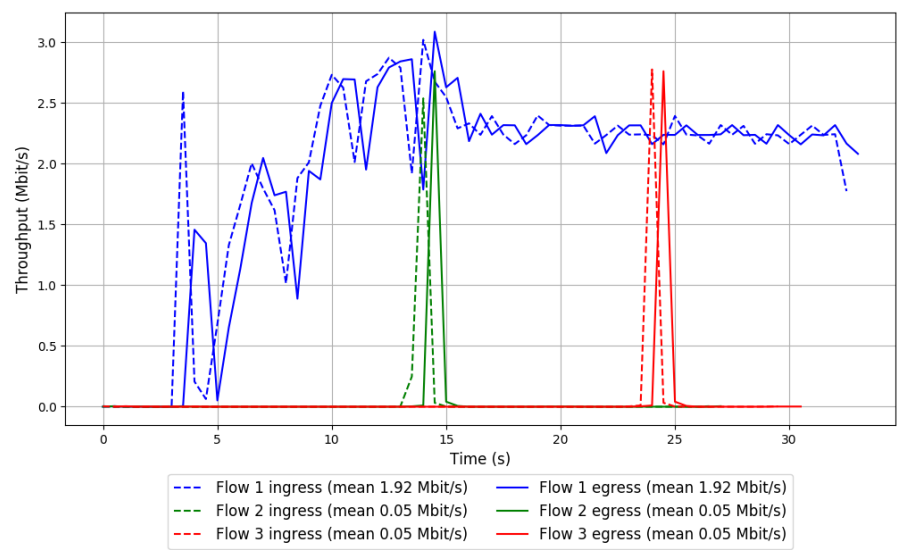
Run 3: Statistics of WebRTC media

Start at: 2019-01-25 06:38:25  
End at: 2019-01-25 06:38:55  
Local clock offset: 0.004 ms  
Remote clock offset: -0.648 ms

# Below is generated by plot.py at 2019-01-25 11:31:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.01 Mbit/s  
95th percentile per-packet one-way delay: 62.305 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.92 Mbit/s  
95th percentile per-packet one-way delay: 62.287 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 62.064 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 62.475 ms  
Loss rate: 0.00%



Run 3: Report of WebRTC media — Data Link





Run 4: Statistics of WebRTC media

Start at: 2019-01-25 07:15:31

End at: 2019-01-25 07:16:01

Local clock offset: -0.036 ms

Remote clock offset: 1.295 ms

# Below is generated by plot.py at 2019-01-25 11:31:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.81 Mbit/s

95th percentile per-packet one-way delay: 64.589 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 64.609 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 64.469 ms

Loss rate: 0.00%

-- Flow 3:

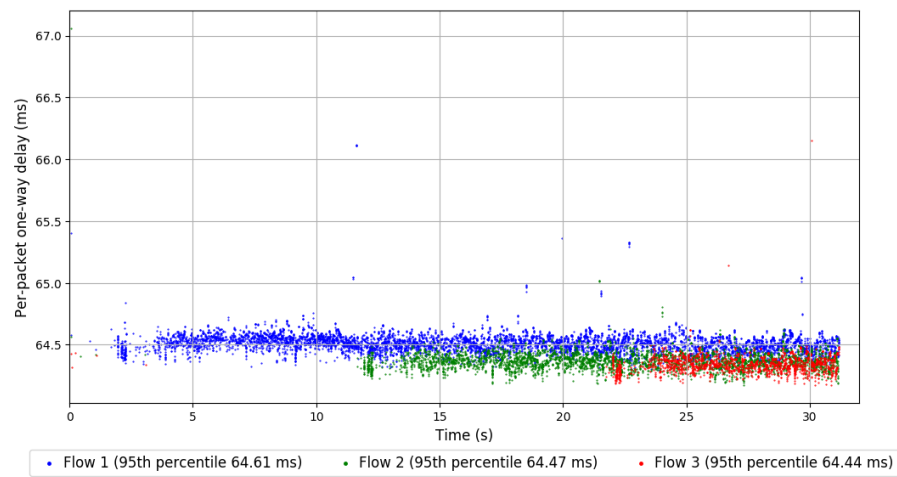
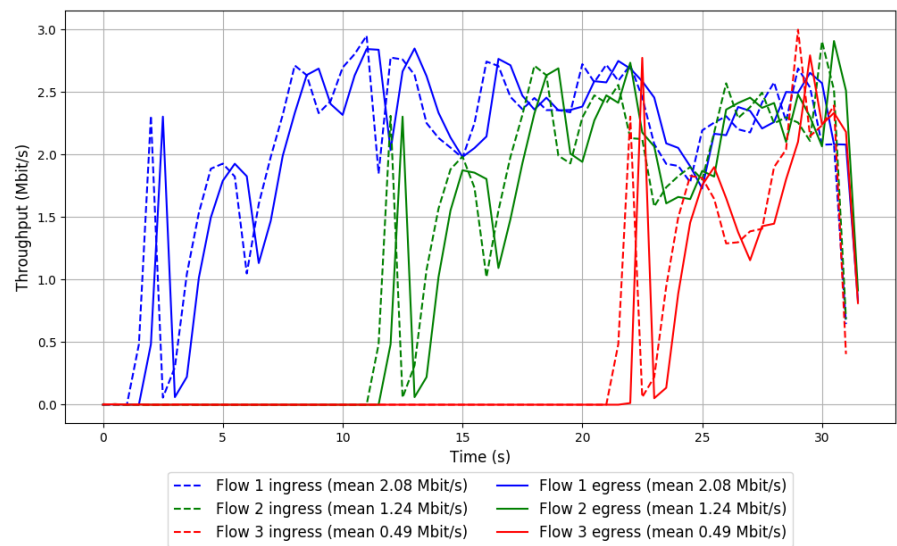
Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 64.440 ms

Loss rate: 0.00%



Run 4: Report of WebRTC media — Data Link





Run 5: Statistics of WebRTC media

Start at: 2019-01-25 07:52:53  
End at: 2019-01-25 07:53:23  
Local clock offset: -0.048 ms  
Remote clock offset: -1.335 ms

# Below is generated by plot.py at 2019-01-25 11:31:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 62.033 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 62.070 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 61.853 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 61.954 ms  
Loss rate: 0.00%



Run 5: Report of WebRTC media — Data Link

