

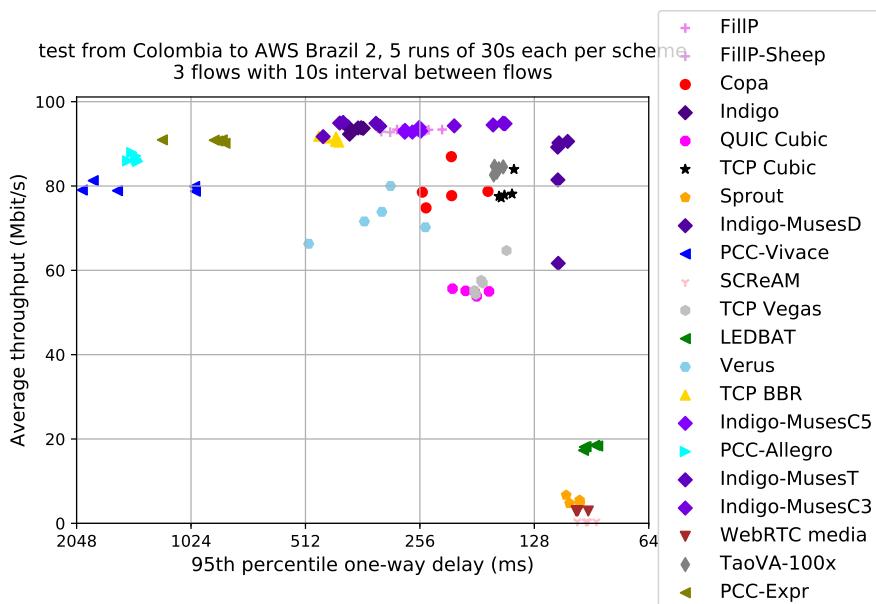
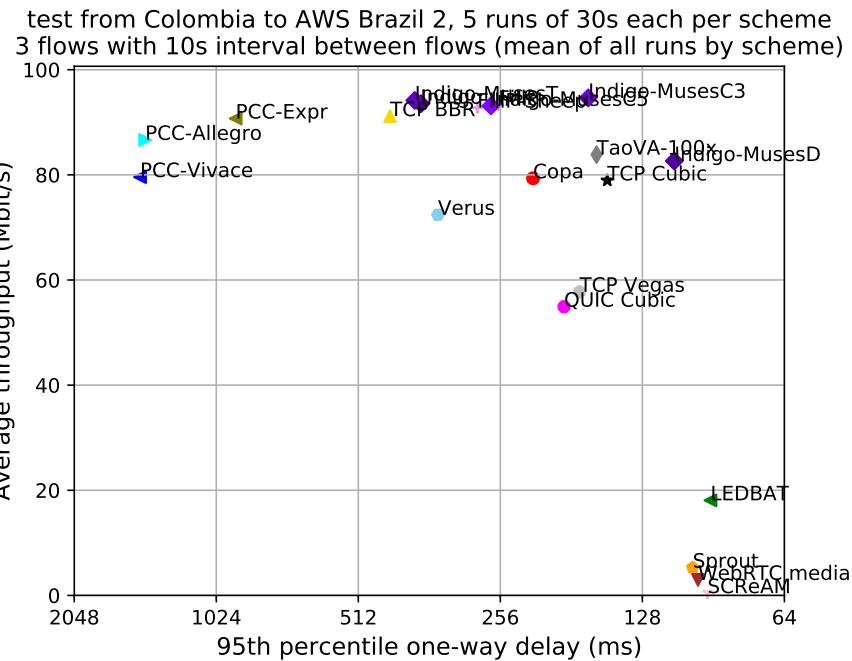
Pantheon Report

Generated at 2019-01-22 04:57:22 (UTC).
Data path: Colombia on p4p1 (*remote*) → AWS Brazil 2 on ens5 (*local*).
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 gps.ntp.br and have been applied to correct the timestamps in logs.

System info:
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912

Git summary:
branch: muses @ 89d24e57783e7fbfec537a619071de937b639e38
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 1ddcff131048c6962f123bcd22b4d166a422adde
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
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-quic @ 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



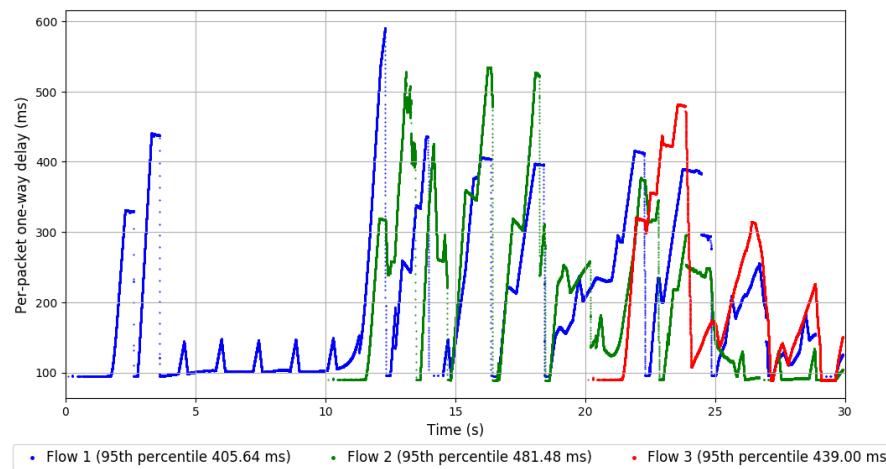
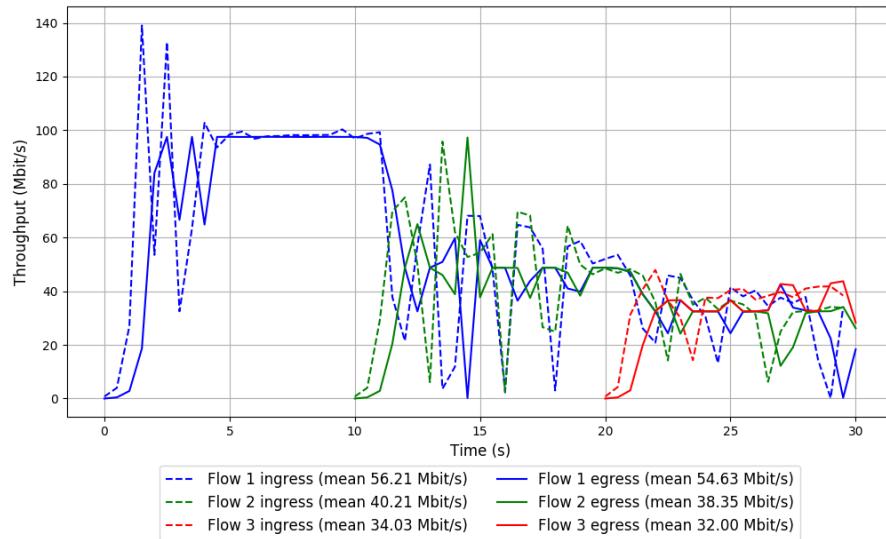
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	55.54	38.89	30.14	415.30	451.48	485.88	2.65	5.48	6.88
Copa		48.35	34.96	23.67	201.65	175.83	198.71	0.54	0.84	2.75
TCP Cubic		43.89	35.25	35.43	176.68	148.52	137.45	0.38	0.78	2.08
FillP		58.31	39.85	26.14	278.79	244.15	238.32	1.07	4.12	6.07
FillP-Sheep		56.98	39.09	30.01	298.33	247.79	297.16	0.96	1.95	3.05
Indigo		58.48	38.77	28.73	412.97	145.33	140.62	7.96	1.40	2.95
Indigo-MusesC3		60.53	40.11	29.32	148.90	200.27	189.06	2.62	2.86	3.35
Indigo-MusesC5		58.68	40.63	28.77	258.96	273.39	274.14	2.47	4.03	5.77
Indigo-MusesD		55.66	32.39	21.61	107.48	116.88	98.09	0.54	1.07	3.06
Indigo-MusesT		59.58	40.34	30.10	367.99	341.69	476.58	5.88	6.78	11.92
LEDBAT		11.74	7.70	3.80	91.25	90.89	88.88	1.16	1.77	3.54
PCC-Allegro		54.76	33.60	29.47	1410.06	1127.68	1566.19	24.27	11.47	21.32
PCC-Expr		56.41	38.96	25.90	950.04	866.23	241.89	24.17	6.68	3.31
QUIC Cubic		35.03	22.21	15.77	138.43	223.43	325.59	0.59	1.41	5.11
SCReAM		0.22	0.22	0.22	90.68	93.05	89.42	0.54	0.99	1.77
Sprout		2.77	2.60	2.39	96.78	98.14	98.14	0.96	1.24	2.12
TaoVA-100x		49.41	37.23	29.53	156.24	168.67	152.38	0.43	0.84	2.16
TCP Vegas		33.60	26.41	20.17	190.39	157.87	164.20	0.48	0.86	2.04
Verus		44.01	31.84	22.19	405.70	287.23	413.21	0.72	1.66	1.96
PCC-Vivace		50.67	32.46	22.57	1370.59	1127.84	308.06	5.00	8.37	3.68
WebRTC media		1.69	0.92	0.36	95.13	96.53	96.42	0.34	0.76	1.52

Run 1: Statistics of TCP BBR

```
Start at: 2019-01-22 02:37:20
End at: 2019-01-22 02:37:50
Local clock offset: -1.745 ms
Remote clock offset: 7.059 ms

# Below is generated by plot.py at 2019-01-22 04:45:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.60 Mbit/s
95th percentile per-packet one-way delay: 426.754 ms
Loss rate: 4.48%
-- Flow 1:
Average throughput: 54.63 Mbit/s
95th percentile per-packet one-way delay: 405.641 ms
Loss rate: 3.39%
-- Flow 2:
Average throughput: 38.35 Mbit/s
95th percentile per-packet one-way delay: 481.477 ms
Loss rate: 5.45%
-- Flow 3:
Average throughput: 32.00 Mbit/s
95th percentile per-packet one-way delay: 438.996 ms
Loss rate: 7.58%
```

Run 1: Report of TCP BBR — Data Link

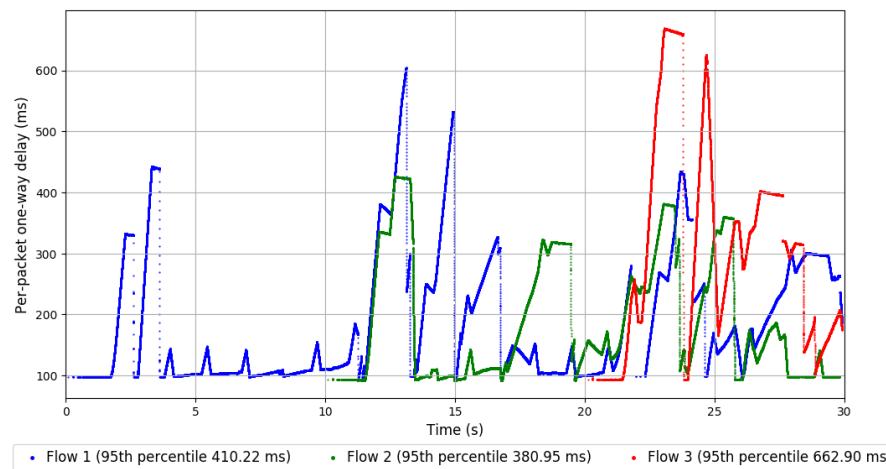
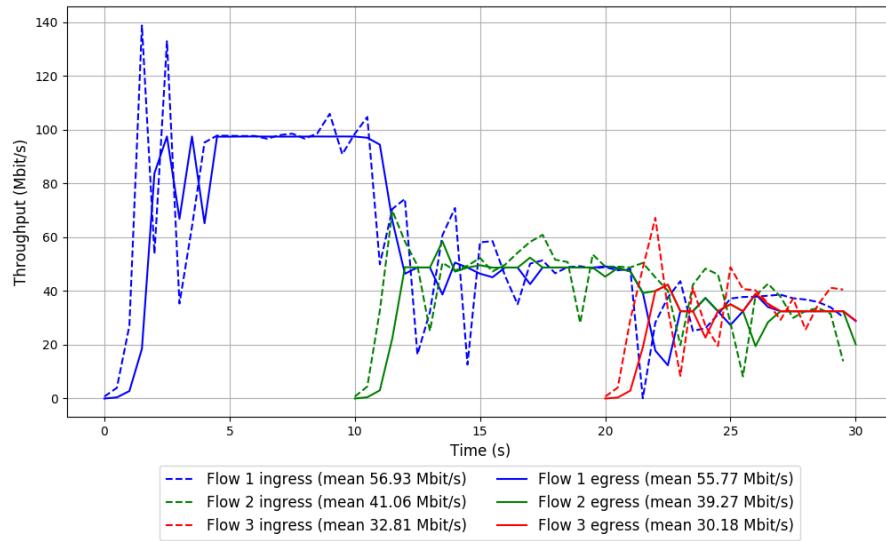


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-22 03:04:20
End at: 2019-01-22 03:04:50
Local clock offset: -2.588 ms
Remote clock offset: 3.08 ms

# Below is generated by plot.py at 2019-01-22 04:45:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.65 Mbit/s
95th percentile per-packet one-way delay: 425.398 ms
Loss rate: 4.16%
-- Flow 1:
Average throughput: 55.77 Mbit/s
95th percentile per-packet one-way delay: 410.217 ms
Loss rate: 2.62%
-- Flow 2:
Average throughput: 39.27 Mbit/s
95th percentile per-packet one-way delay: 380.953 ms
Loss rate: 5.19%
-- Flow 3:
Average throughput: 30.18 Mbit/s
95th percentile per-packet one-way delay: 662.897 ms
Loss rate: 9.63%
```

Run 2: Report of TCP BBR — Data Link

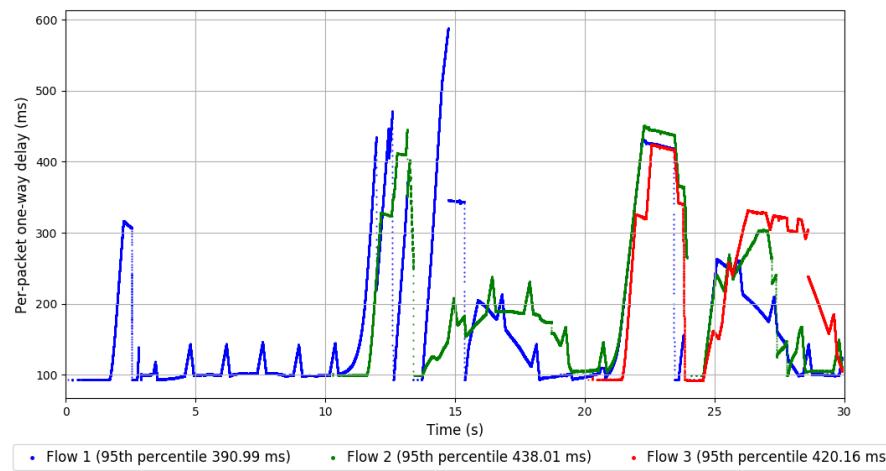
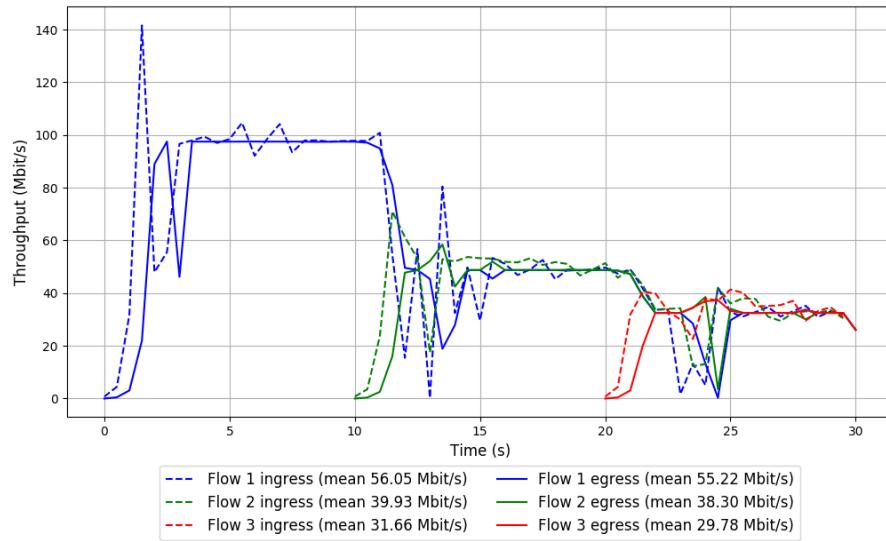


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-22 03:31:21
End at: 2019-01-22 03:31:51
Local clock offset: -6.838 ms
Remote clock offset: 1.396 ms

# Below is generated by plot.py at 2019-01-22 04:45:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.42 Mbit/s
95th percentile per-packet one-way delay: 418.582 ms
Loss rate: 3.51%
-- Flow 1:
Average throughput: 55.22 Mbit/s
95th percentile per-packet one-way delay: 390.991 ms
Loss rate: 2.06%
-- Flow 2:
Average throughput: 38.30 Mbit/s
95th percentile per-packet one-way delay: 438.013 ms
Loss rate: 4.96%
-- Flow 3:
Average throughput: 29.78 Mbit/s
95th percentile per-packet one-way delay: 420.163 ms
Loss rate: 7.60%
```

Run 3: Report of TCP BBR — Data Link

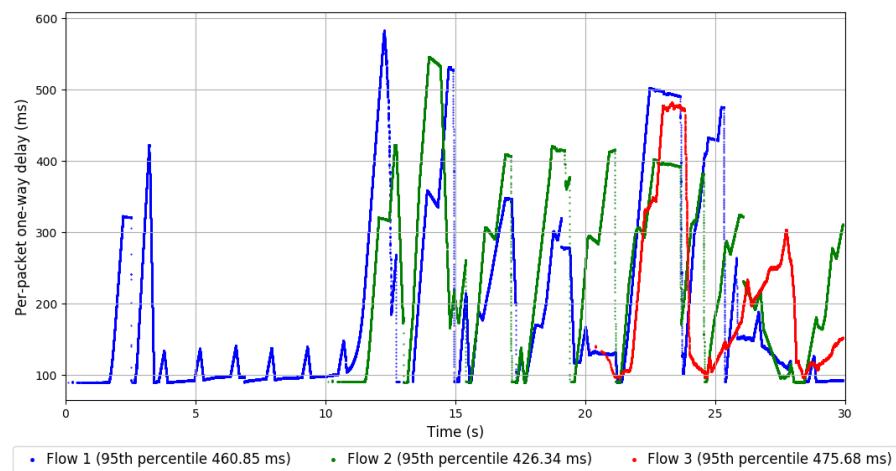
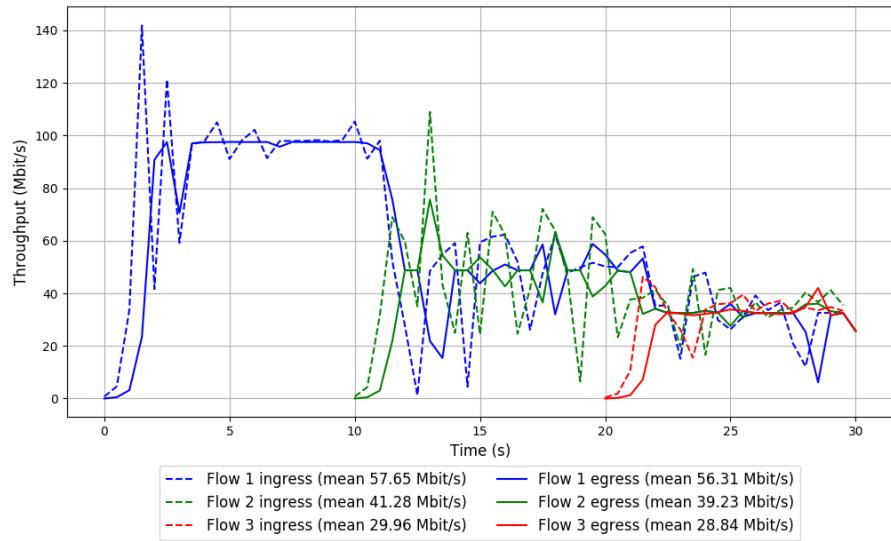


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-22 03:58:21
End at: 2019-01-22 03:58:51
Local clock offset: -7.381 ms
Remote clock offset: 2.259 ms

# Below is generated by plot.py at 2019-01-22 04:45:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.79 Mbit/s
95th percentile per-packet one-way delay: 472.207 ms
Loss rate: 4.05%
-- Flow 1:
Average throughput: 56.31 Mbit/s
95th percentile per-packet one-way delay: 460.848 ms
Loss rate: 2.90%
-- Flow 2:
Average throughput: 39.23 Mbit/s
95th percentile per-packet one-way delay: 426.338 ms
Loss rate: 5.80%
-- Flow 3:
Average throughput: 28.84 Mbit/s
95th percentile per-packet one-way delay: 475.679 ms
Loss rate: 5.89%
```

Run 4: Report of TCP BBR — Data Link

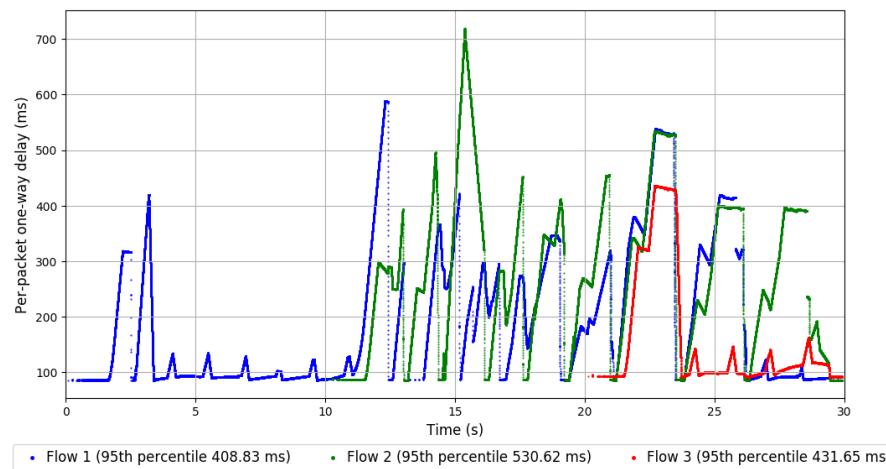
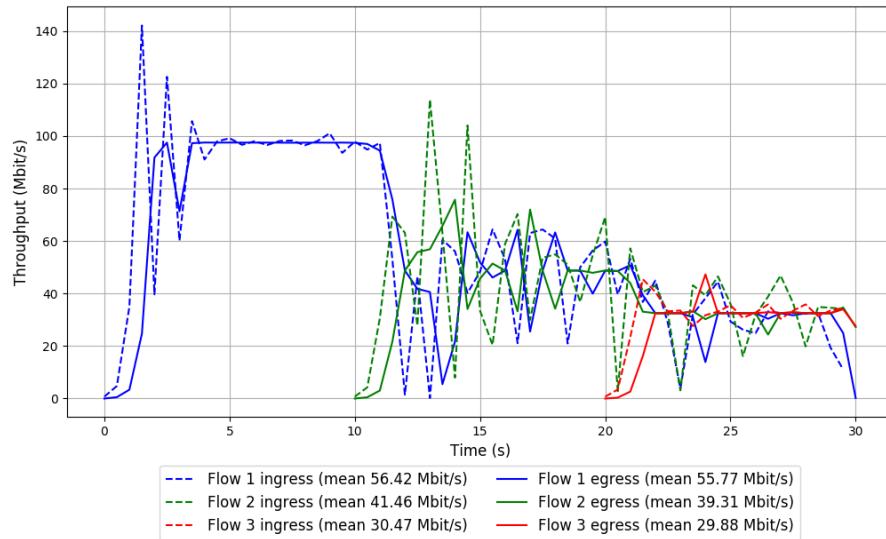


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-22 04:25:21
End at: 2019-01-22 04:25:51
Local clock offset: -7.12 ms
Remote clock offset: 7.221 ms

# Below is generated by plot.py at 2019-01-22 04:45:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.38 Mbit/s
95th percentile per-packet one-way delay: 449.552 ms
Loss rate: 3.52%
-- Flow 1:
Average throughput: 55.77 Mbit/s
95th percentile per-packet one-way delay: 408.828 ms
Loss rate: 2.26%
-- Flow 2:
Average throughput: 39.31 Mbit/s
95th percentile per-packet one-way delay: 530.621 ms
Loss rate: 6.01%
-- Flow 3:
Average throughput: 29.88 Mbit/s
95th percentile per-packet one-way delay: 431.648 ms
Loss rate: 3.69%
```

Run 5: Report of TCP BBR — Data Link

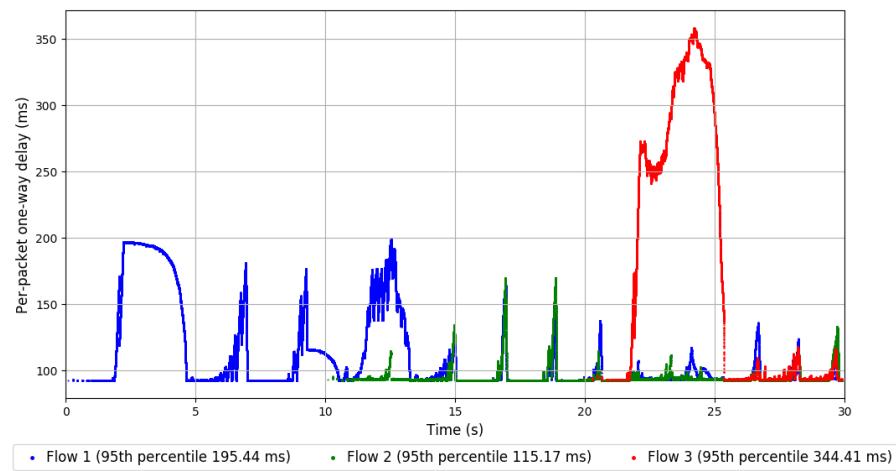
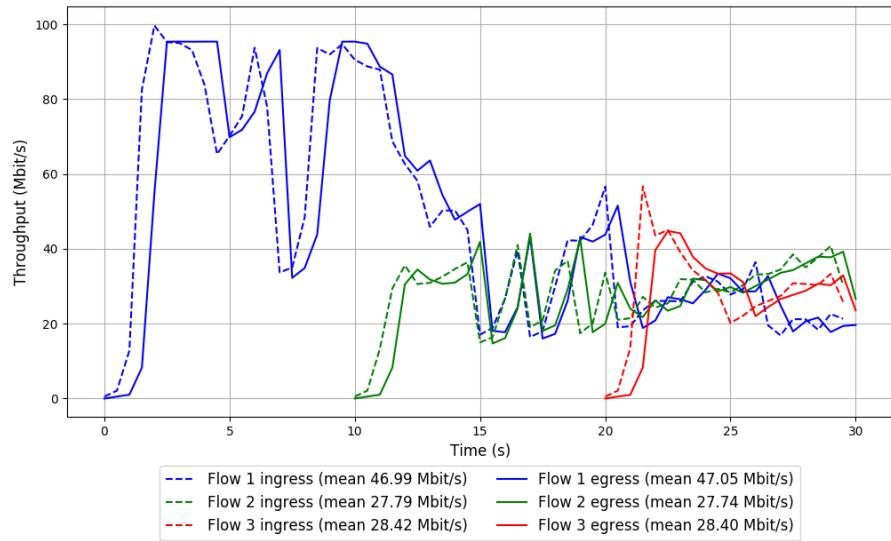


Run 1: Statistics of Copa

```
Start at: 2019-01-22 02:36:00
End at: 2019-01-22 02:36:30
Local clock offset: -1.68 ms
Remote clock offset: 3.161 ms

# Below is generated by plot.py at 2019-01-22 04:46:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.81 Mbit/s
95th percentile per-packet one-way delay: 246.672 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 47.05 Mbit/s
95th percentile per-packet one-way delay: 195.445 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 27.74 Mbit/s
95th percentile per-packet one-way delay: 115.165 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 28.40 Mbit/s
95th percentile per-packet one-way delay: 344.411 ms
Loss rate: 1.77%
```

Run 1: Report of Copa — Data Link

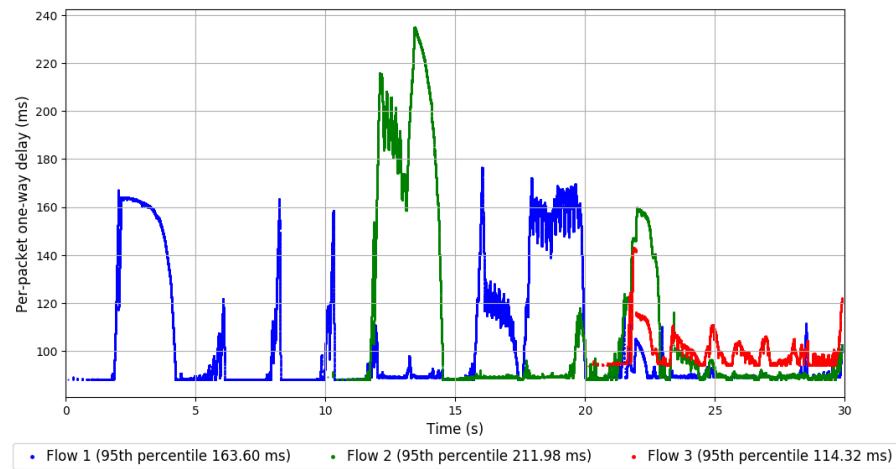
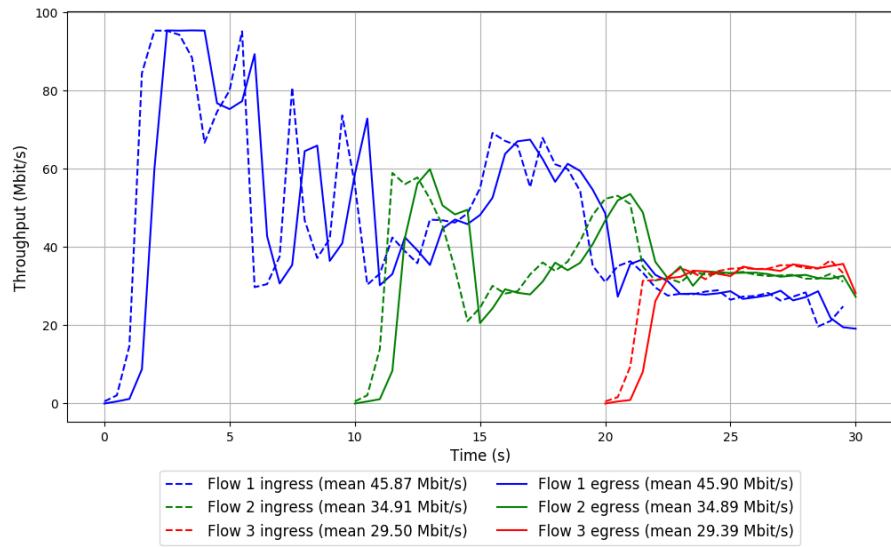


Run 2: Statistics of Copa

```
Start at: 2019-01-22 03:03:00
End at: 2019-01-22 03:03:30
Local clock offset: -2.596 ms
Remote clock offset: 6.897 ms

# Below is generated by plot.py at 2019-01-22 04:46:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.74 Mbit/s
95th percentile per-packet one-way delay: 169.493 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 45.90 Mbit/s
95th percentile per-packet one-way delay: 163.603 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 34.89 Mbit/s
95th percentile per-packet one-way delay: 211.976 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 29.39 Mbit/s
95th percentile per-packet one-way delay: 114.319 ms
Loss rate: 2.17%
```

Run 2: Report of Copa — Data Link

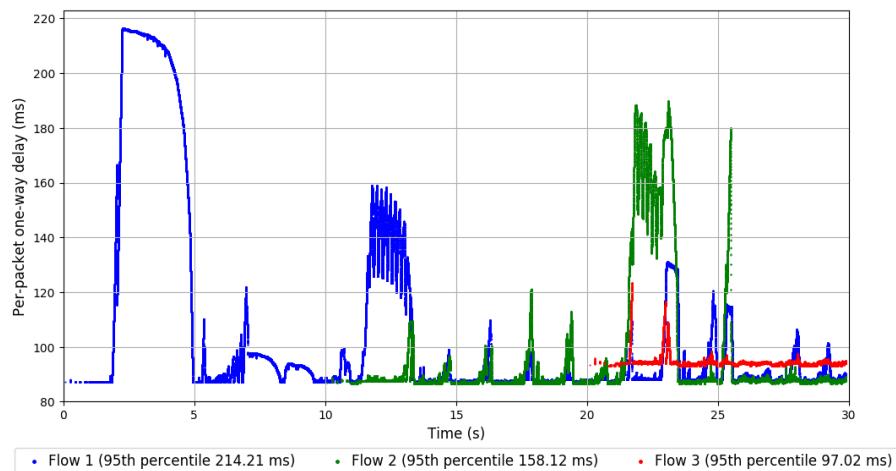
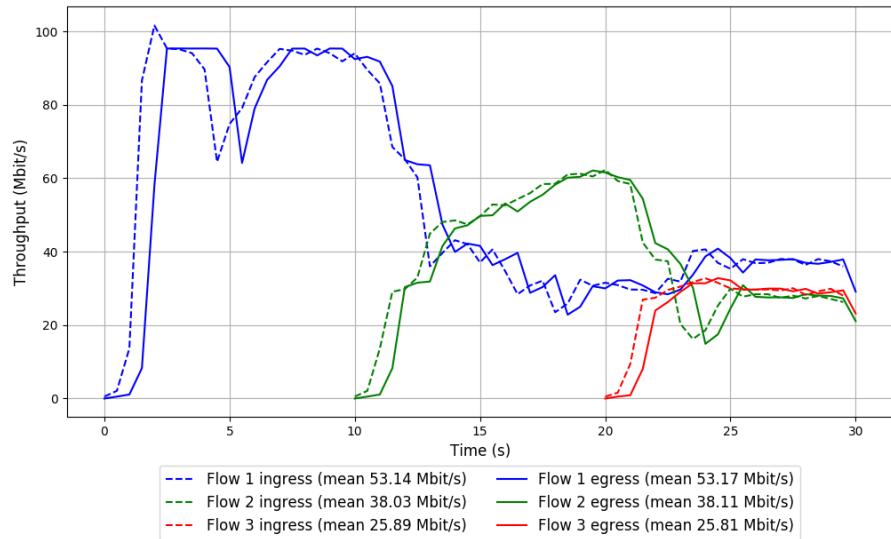


Run 3: Statistics of Copa

```
Start at: 2019-01-22 03:30:01
End at: 2019-01-22 03:30:31
Local clock offset: -7.352 ms
Remote clock offset: 6.288 ms

# Below is generated by plot.py at 2019-01-22 04:46:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.96 Mbit/s
95th percentile per-packet one-way delay: 211.564 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 53.17 Mbit/s
95th percentile per-packet one-way delay: 214.207 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 38.11 Mbit/s
95th percentile per-packet one-way delay: 158.125 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 25.81 Mbit/s
95th percentile per-packet one-way delay: 97.016 ms
Loss rate: 2.11%
```

Run 3: Report of Copa — Data Link

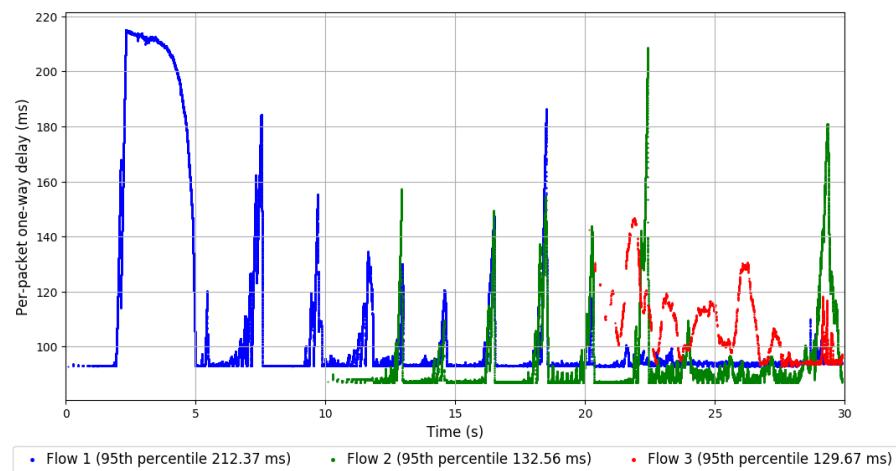
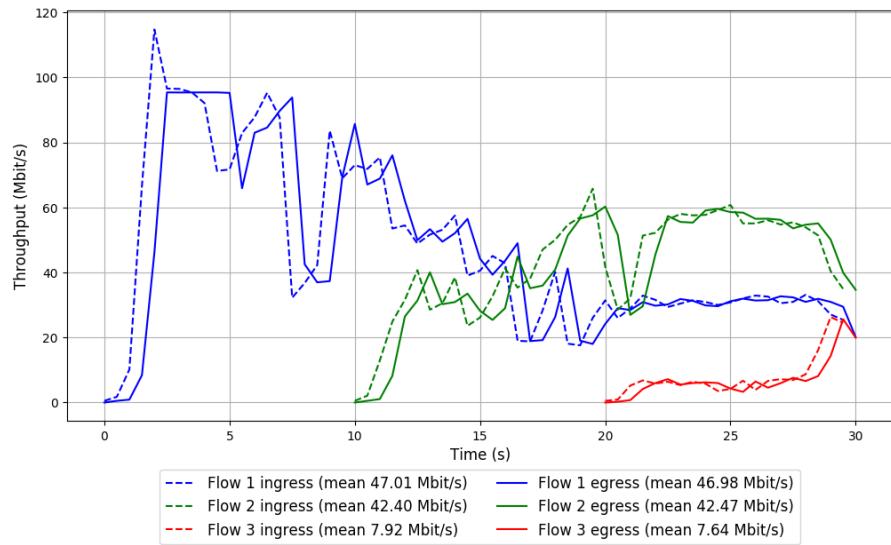


Run 4: Statistics of Copa

```
Start at: 2019-01-22 03:57:01
End at: 2019-01-22 03:57:31
Local clock offset: -7.449 ms
Remote clock offset: 5.926 ms

# Below is generated by plot.py at 2019-01-22 04:47:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.71 Mbit/s
95th percentile per-packet one-way delay: 211.173 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 46.98 Mbit/s
95th percentile per-packet one-way delay: 212.369 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 42.47 Mbit/s
95th percentile per-packet one-way delay: 132.561 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 7.64 Mbit/s
95th percentile per-packet one-way delay: 129.674 ms
Loss rate: 5.74%
```

Run 4: Report of Copa — Data Link

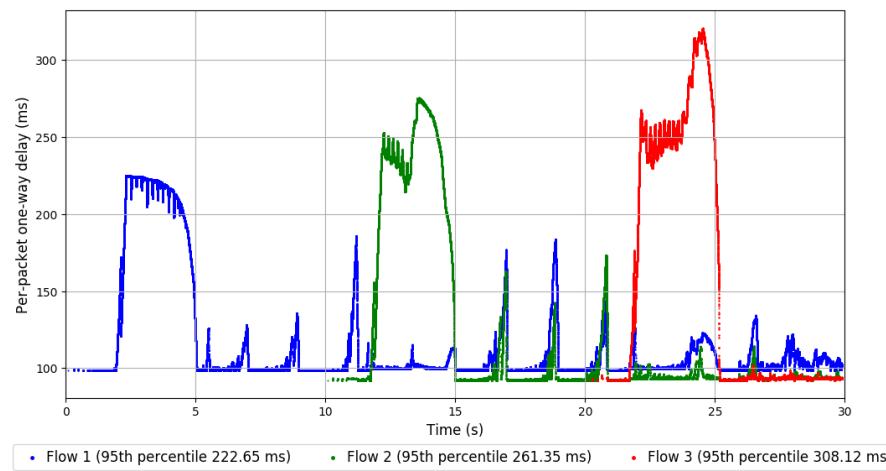
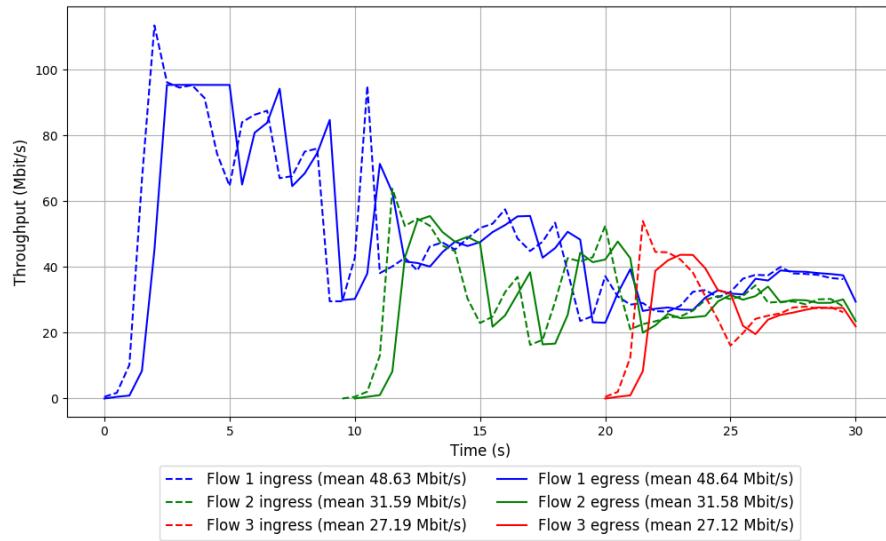


Run 5: Statistics of Copa

```
Start at: 2019-01-22 04:24:01
End at: 2019-01-22 04:24:31
Local clock offset: -6.369 ms
Remote clock offset: 1.052 ms

# Below is generated by plot.py at 2019-01-22 04:47:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.54 Mbit/s
95th percentile per-packet one-way delay: 252.246 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 48.64 Mbit/s
95th percentile per-packet one-way delay: 222.650 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 31.58 Mbit/s
95th percentile per-packet one-way delay: 261.346 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 27.12 Mbit/s
95th percentile per-packet one-way delay: 308.119 ms
Loss rate: 1.96%
```

Run 5: Report of Copa — Data Link

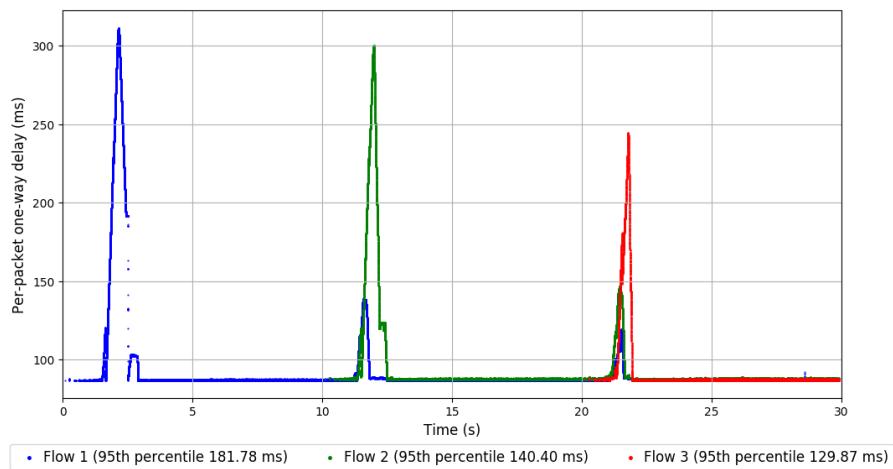
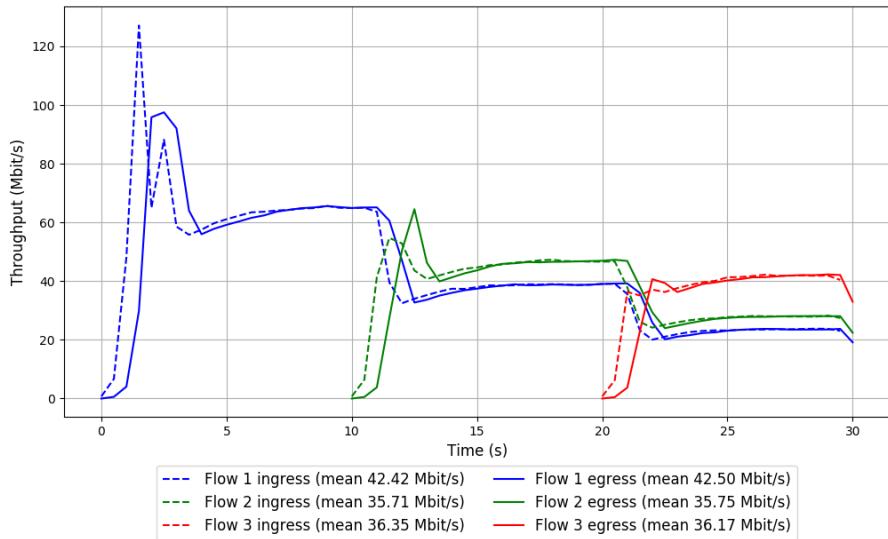


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-01-22 02:30:55
End at: 2019-01-22 02:31:25
Local clock offset: -2.474 ms
Remote clock offset: 7.951 ms

# Below is generated by plot.py at 2019-01-22 04:47:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.12 Mbit/s
95th percentile per-packet one-way delay: 146.499 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 42.50 Mbit/s
95th percentile per-packet one-way delay: 181.775 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 35.75 Mbit/s
95th percentile per-packet one-way delay: 140.395 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 36.17 Mbit/s
95th percentile per-packet one-way delay: 129.865 ms
Loss rate: 2.22%
```

Run 1: Report of TCP Cubic — Data Link

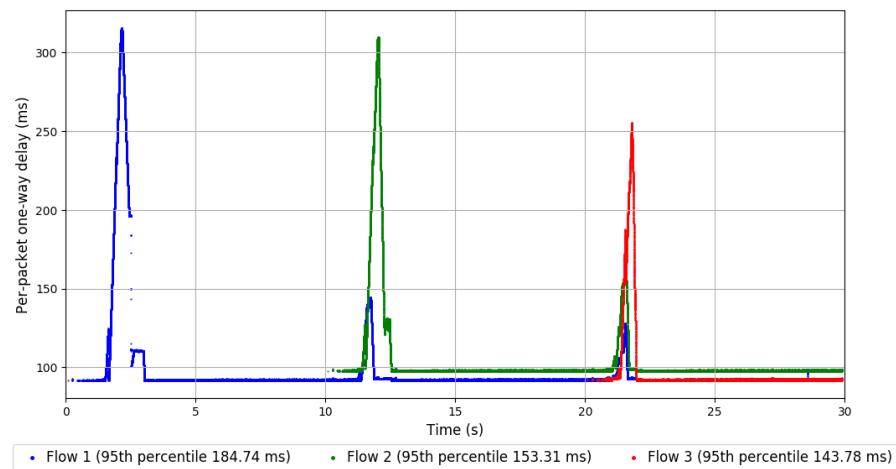
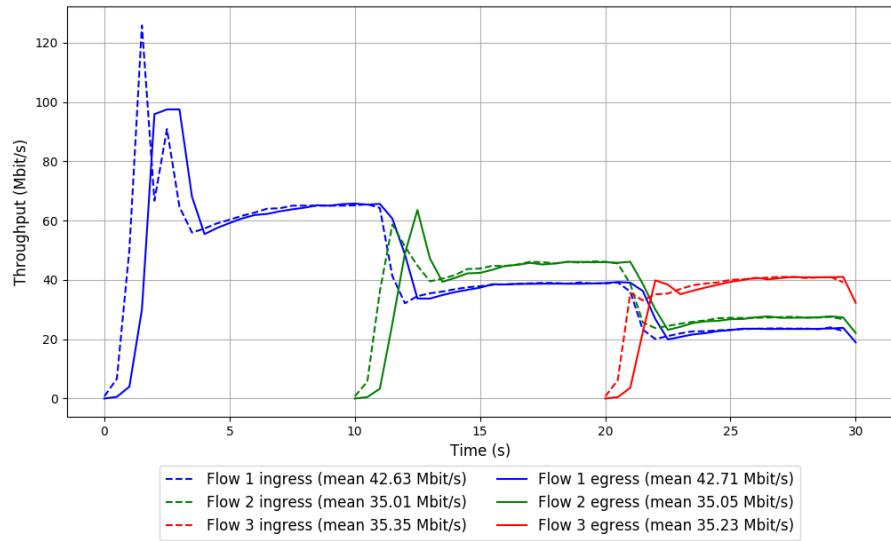


Run 2: Statistics of TCP Cubic

```
Start at: 2019-01-22 02:57:54
End at: 2019-01-22 02:58:24
Local clock offset: -1.845 ms
Remote clock offset: 4.185 ms

# Below is generated by plot.py at 2019-01-22 04:47:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.58 Mbit/s
95th percentile per-packet one-way delay: 158.533 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 42.71 Mbit/s
95th percentile per-packet one-way delay: 184.742 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 35.05 Mbit/s
95th percentile per-packet one-way delay: 153.309 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 35.23 Mbit/s
95th percentile per-packet one-way delay: 143.785 ms
Loss rate: 2.07%
```

Run 2: Report of TCP Cubic — Data Link

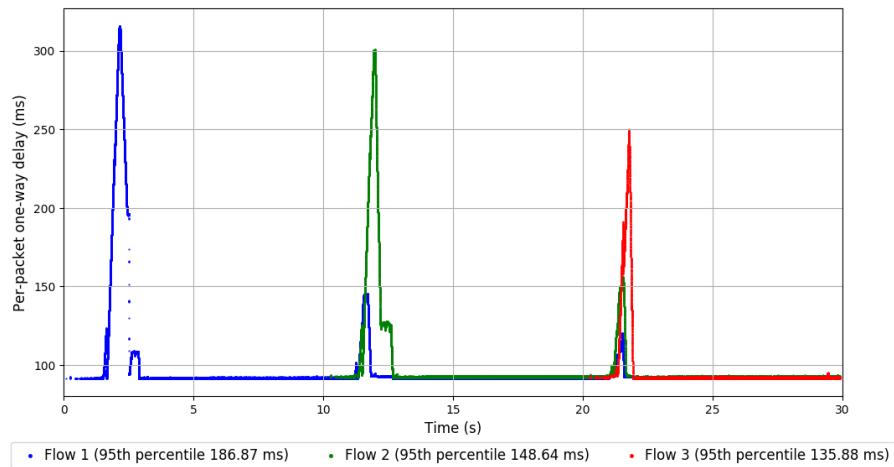
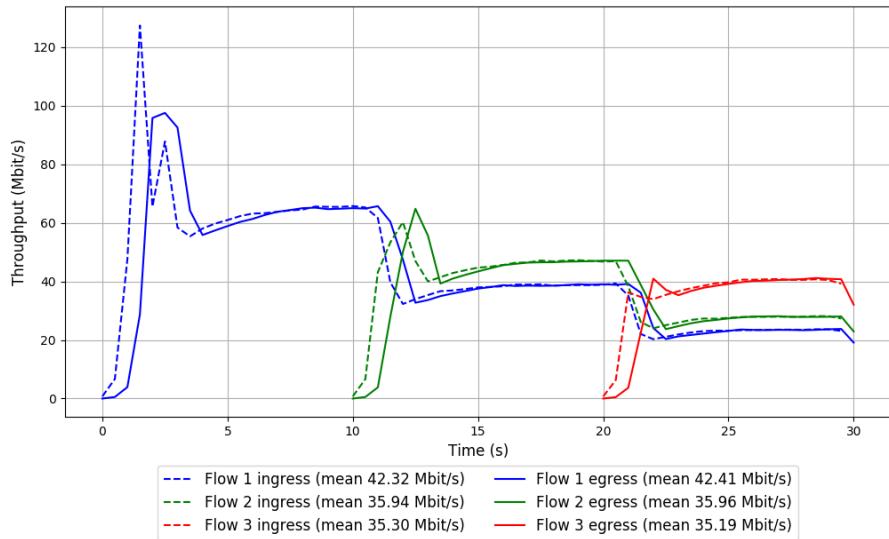


Run 3: Statistics of TCP Cubic

```
Start at: 2019-01-22 03:24:55
End at: 2019-01-22 03:25:25
Local clock offset: -6.22 ms
Remote clock offset: 1.68 ms

# Below is generated by plot.py at 2019-01-22 04:47:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.84 Mbit/s
95th percentile per-packet one-way delay: 153.379 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 42.41 Mbit/s
95th percentile per-packet one-way delay: 186.874 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 35.96 Mbit/s
95th percentile per-packet one-way delay: 148.641 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 35.19 Mbit/s
95th percentile per-packet one-way delay: 135.875 ms
Loss rate: 2.02%
```

Run 3: Report of TCP Cubic — Data Link

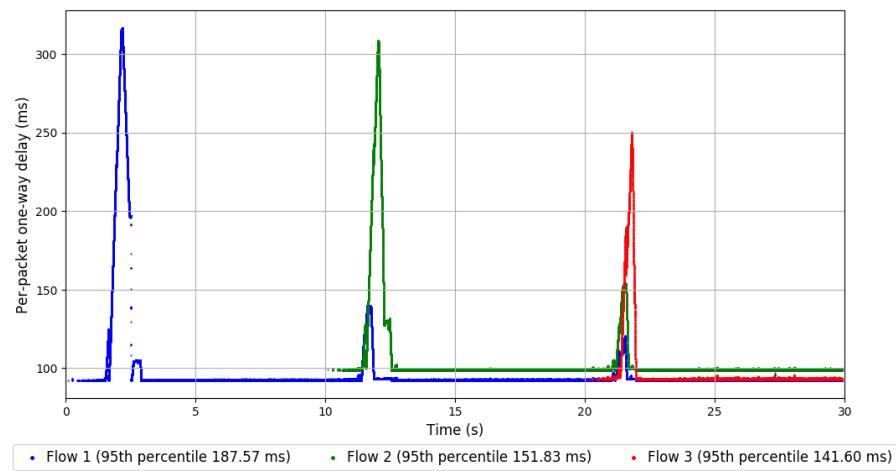
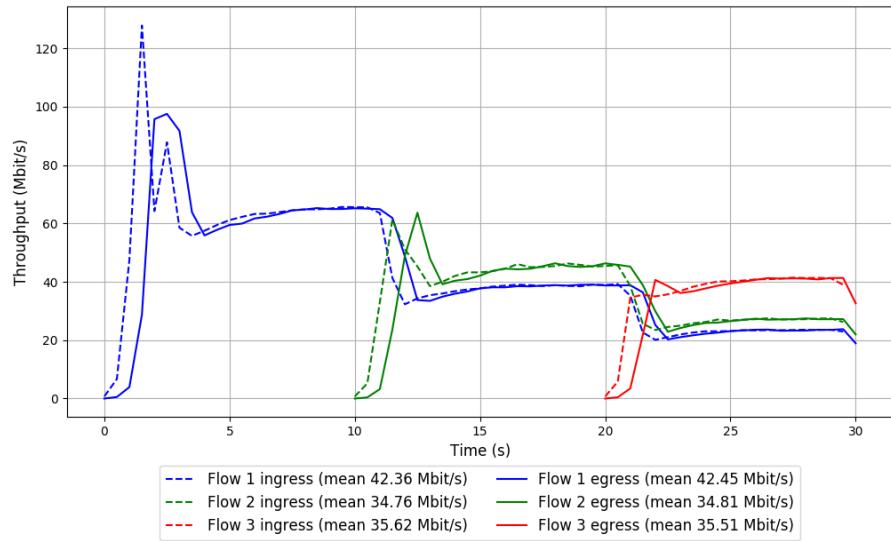


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-22 03:51:54
End at: 2019-01-22 03:52:24
Local clock offset: -7.167 ms
Remote clock offset: 1.128 ms

# Below is generated by plot.py at 2019-01-22 04:47:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.21 Mbit/s
95th percentile per-packet one-way delay: 156.492 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 42.45 Mbit/s
95th percentile per-packet one-way delay: 187.575 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 34.81 Mbit/s
95th percentile per-packet one-way delay: 151.832 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 35.51 Mbit/s
95th percentile per-packet one-way delay: 141.605 ms
Loss rate: 2.06%
```

Run 4: Report of TCP Cubic — Data Link

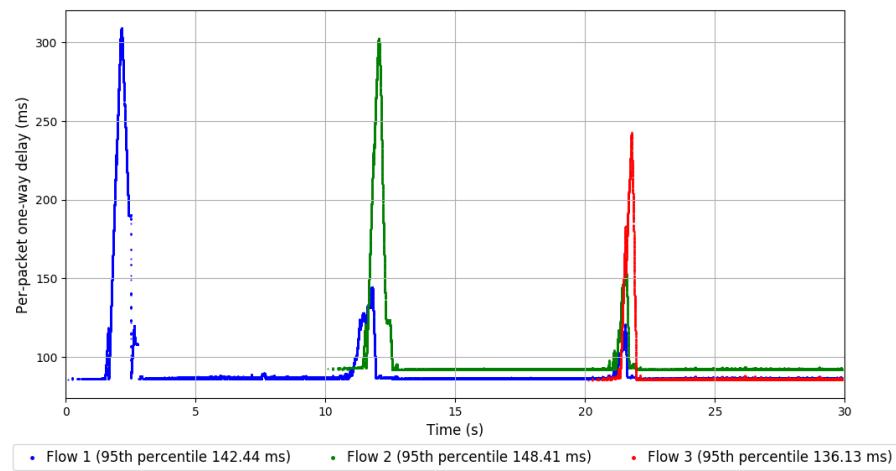
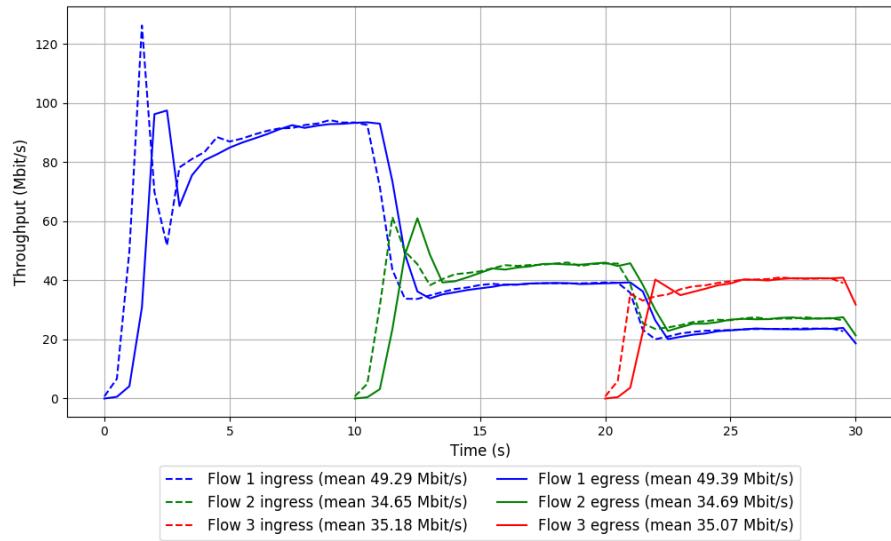


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-22 04:18:54
End at: 2019-01-22 04:19:24
Local clock offset: -7.215 ms
Remote clock offset: 6.881 ms

# Below is generated by plot.py at 2019-01-22 04:47:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.94 Mbit/s
95th percentile per-packet one-way delay: 144.787 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 49.39 Mbit/s
95th percentile per-packet one-way delay: 142.435 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 34.69 Mbit/s
95th percentile per-packet one-way delay: 148.406 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 35.07 Mbit/s
95th percentile per-packet one-way delay: 136.126 ms
Loss rate: 2.05%
```

Run 5: Report of TCP Cubic — Data Link

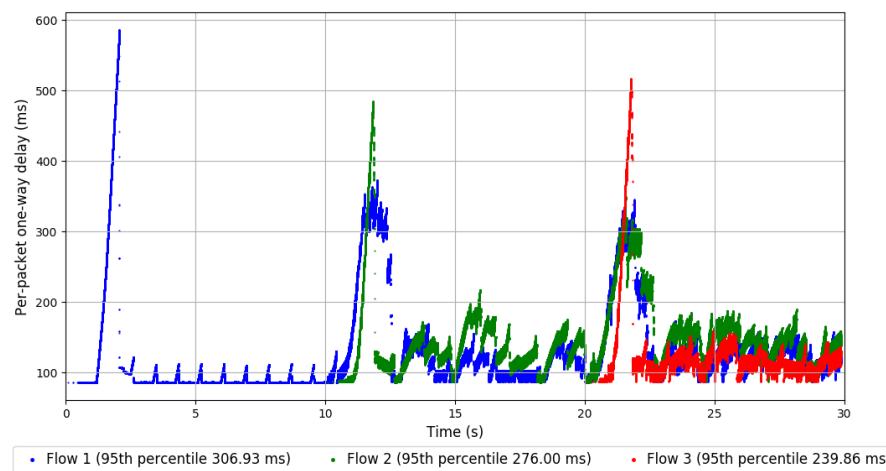
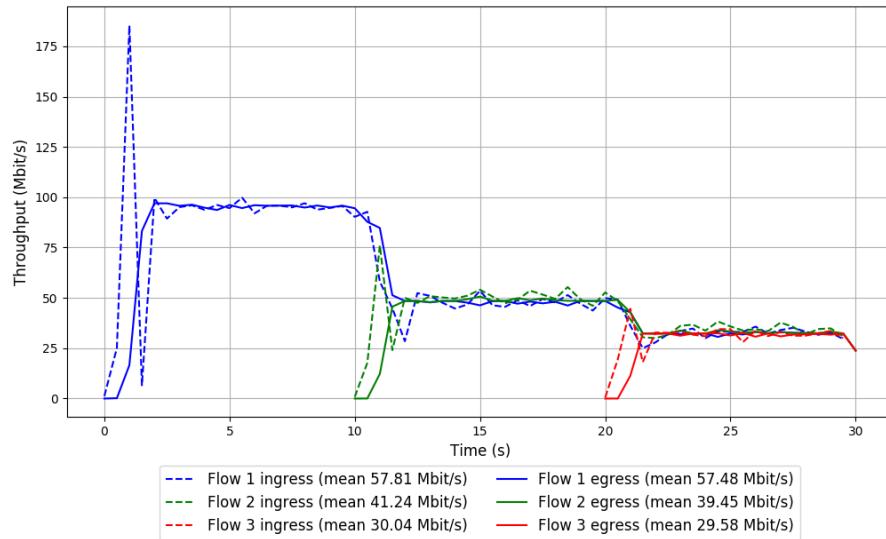


```
Run 1: Statistics of FillP

Start at: 2019-01-22 02:42:32
End at: 2019-01-22 02:43:02
Local clock offset: -1.642 ms
Remote clock offset: 9.019 ms

# Below is generated by plot.py at 2019-01-22 04:47:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.38 Mbit/s
95th percentile per-packet one-way delay: 294.089 ms
Loss rate: 2.47%
-- Flow 1:
Average throughput: 57.48 Mbit/s
95th percentile per-packet one-way delay: 306.930 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 39.45 Mbit/s
95th percentile per-packet one-way delay: 276.002 ms
Loss rate: 5.13%
-- Flow 3:
Average throughput: 29.58 Mbit/s
95th percentile per-packet one-way delay: 239.857 ms
Loss rate: 3.23%
```

Run 1: Report of FillP — Data Link

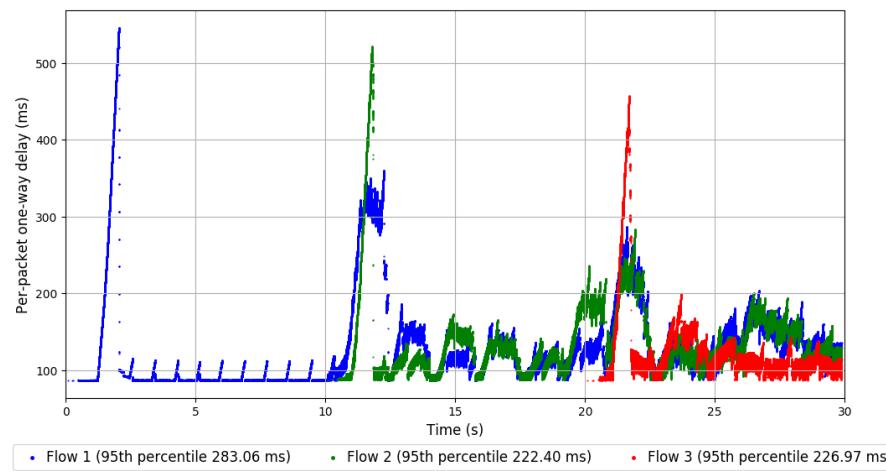
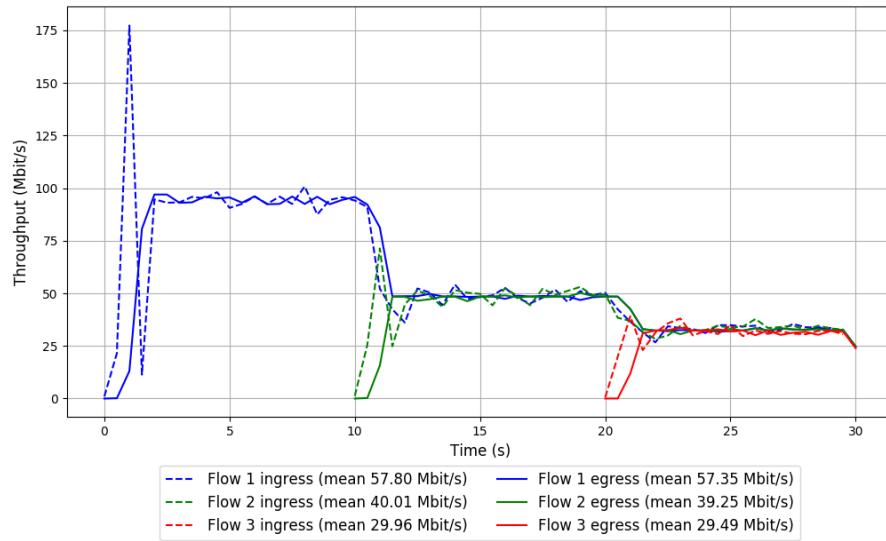


Run 2: Statistics of FillP

```
Start at: 2019-01-22 03:09:32
End at: 2019-01-22 03:10:02
Local clock offset: -2.61 ms
Remote clock offset: 8.057 ms

# Below is generated by plot.py at 2019-01-22 04:47:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.09 Mbit/s
95th percentile per-packet one-way delay: 247.782 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 57.35 Mbit/s
95th percentile per-packet one-way delay: 283.057 ms
Loss rate: 1.35%
-- Flow 2:
Average throughput: 39.25 Mbit/s
95th percentile per-packet one-way delay: 222.401 ms
Loss rate: 2.76%
-- Flow 3:
Average throughput: 29.49 Mbit/s
95th percentile per-packet one-way delay: 226.968 ms
Loss rate: 3.24%
```

Run 2: Report of FillP — Data Link

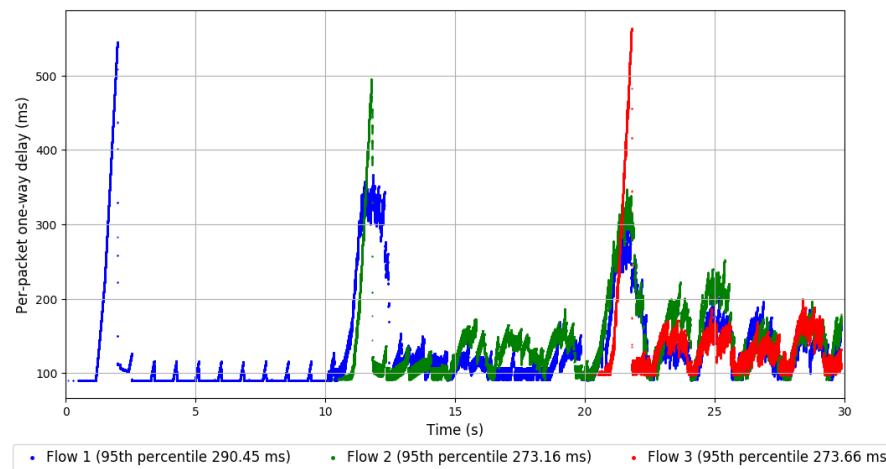
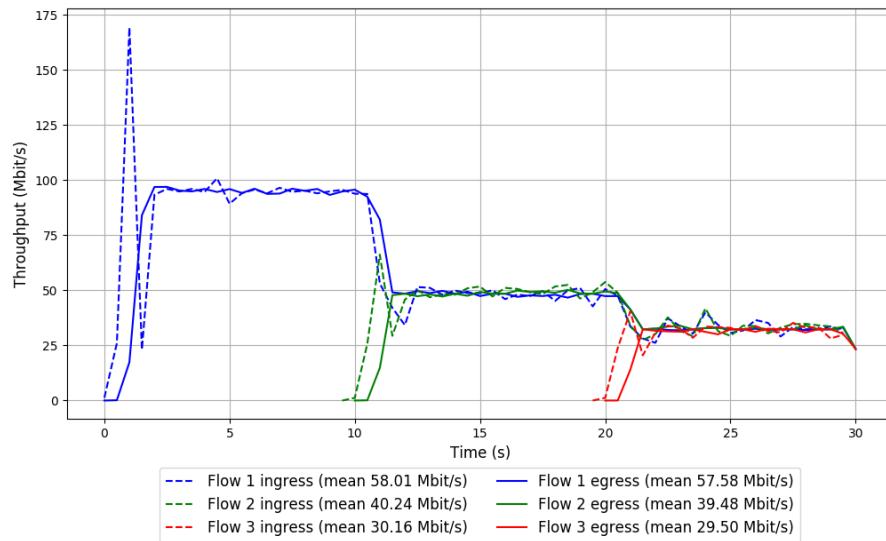


Run 3: Statistics of FillP

```
Start at: 2019-01-22 03:36:33
End at: 2019-01-22 03:37:03
Local clock offset: -8.214 ms
Remote clock offset: 2.335 ms

# Below is generated by plot.py at 2019-01-22 04:47:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.48 Mbit/s
95th percentile per-packet one-way delay: 284.039 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 57.58 Mbit/s
95th percentile per-packet one-way delay: 290.453 ms
Loss rate: 1.33%
-- Flow 2:
Average throughput: 39.48 Mbit/s
95th percentile per-packet one-way delay: 273.161 ms
Loss rate: 2.70%
-- Flow 3:
Average throughput: 29.50 Mbit/s
95th percentile per-packet one-way delay: 273.660 ms
Loss rate: 3.84%
```

Run 3: Report of FillP — Data Link

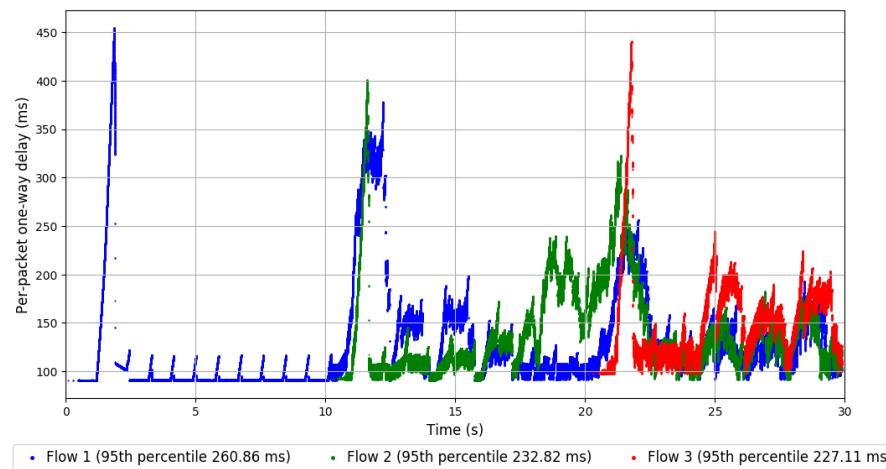
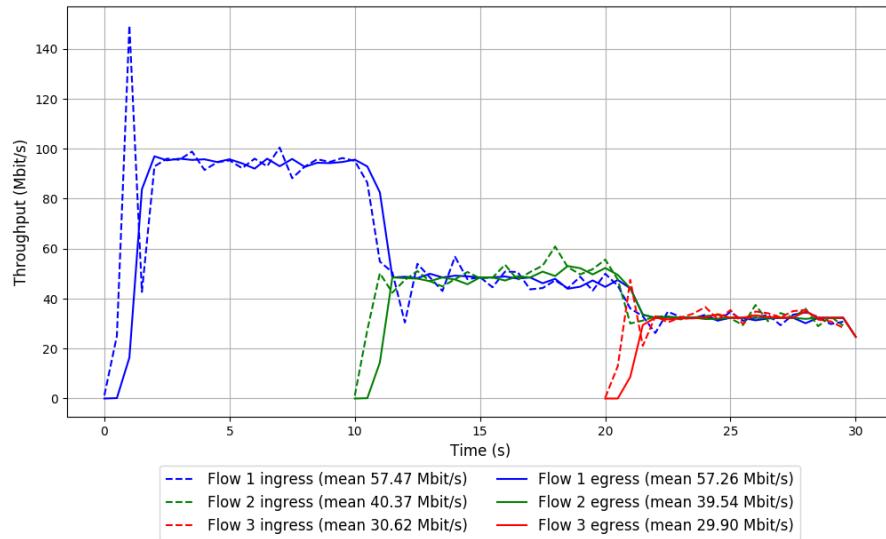


Run 4: Statistics of FillP

```
Start at: 2019-01-22 04:03:32
End at: 2019-01-22 04:04:02
Local clock offset: -7.273 ms
Remote clock offset: 2.035 ms

# Below is generated by plot.py at 2019-01-22 04:47:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.33 Mbit/s
95th percentile per-packet one-way delay: 243.009 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 57.26 Mbit/s
95th percentile per-packet one-way delay: 260.856 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 39.54 Mbit/s
95th percentile per-packet one-way delay: 232.825 ms
Loss rate: 2.85%
-- Flow 3:
Average throughput: 29.90 Mbit/s
95th percentile per-packet one-way delay: 227.106 ms
Loss rate: 3.88%
```

Run 4: Report of FillP — Data Link

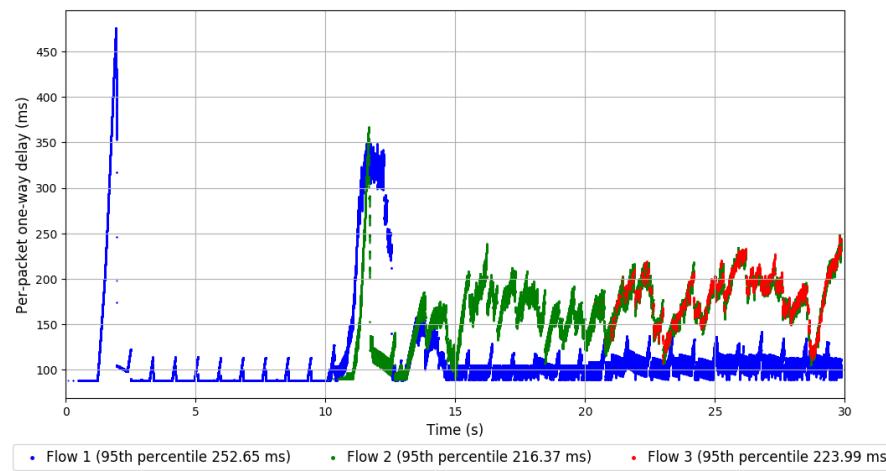
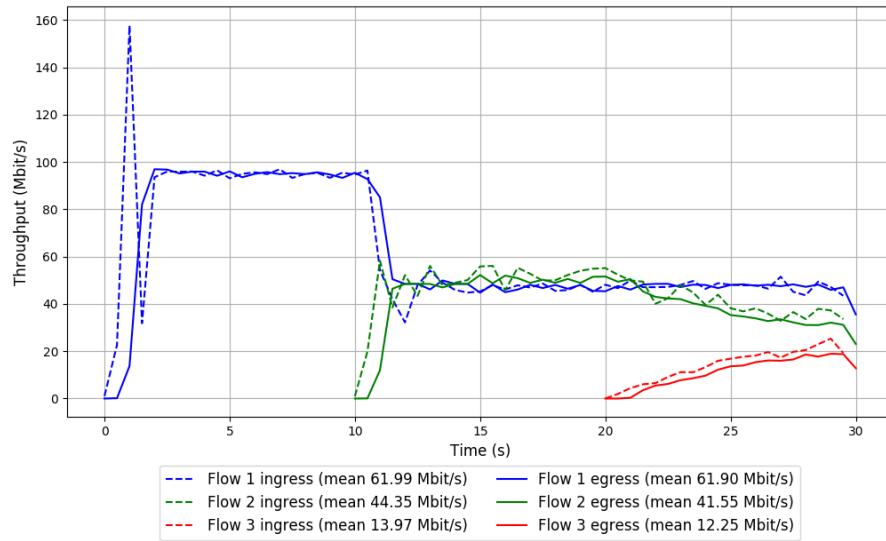


Run 5: Statistics of FillP

```
Start at: 2019-01-22 04:30:32
End at: 2019-01-22 04:31:02
Local clock offset: -6.296 ms
Remote clock offset: 5.051 ms

# Below is generated by plot.py at 2019-01-22 04:48:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.39 Mbit/s
95th percentile per-packet one-way delay: 223.755 ms
Loss rate: 3.41%
-- Flow 1:
Average throughput: 61.90 Mbit/s
95th percentile per-packet one-way delay: 252.645 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 41.55 Mbit/s
95th percentile per-packet one-way delay: 216.372 ms
Loss rate: 7.15%
-- Flow 3:
Average throughput: 12.25 Mbit/s
95th percentile per-packet one-way delay: 223.990 ms
Loss rate: 16.18%
```

Run 5: Report of FillP — Data Link

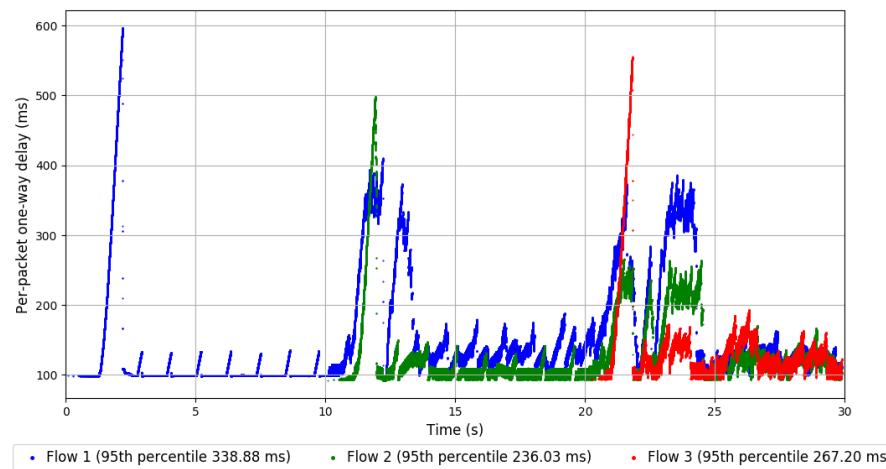
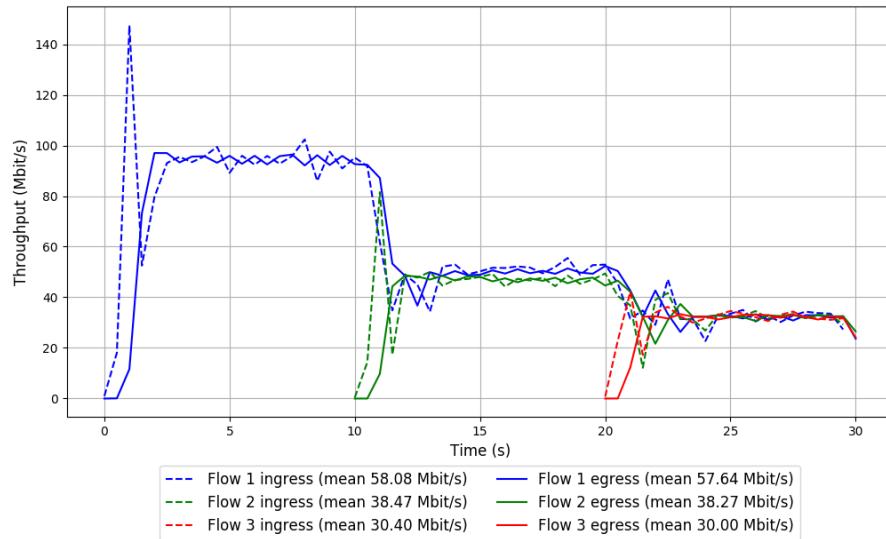


Run 1: Statistics of FillP-Sheep

```
Start at: 2019-01-22 02:29:38
End at: 2019-01-22 02:30:08
Local clock offset: -1.765 ms
Remote clock offset: 3.293 ms

# Below is generated by plot.py at 2019-01-22 04:48:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.90 Mbit/s
95th percentile per-packet one-way delay: 323.401 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 57.64 Mbit/s
95th percentile per-packet one-way delay: 338.877 ms
Loss rate: 1.30%
-- Flow 2:
Average throughput: 38.27 Mbit/s
95th percentile per-packet one-way delay: 236.026 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 30.00 Mbit/s
95th percentile per-packet one-way delay: 267.196 ms
Loss rate: 3.06%
```

Run 1: Report of FillP-Sheep — Data Link

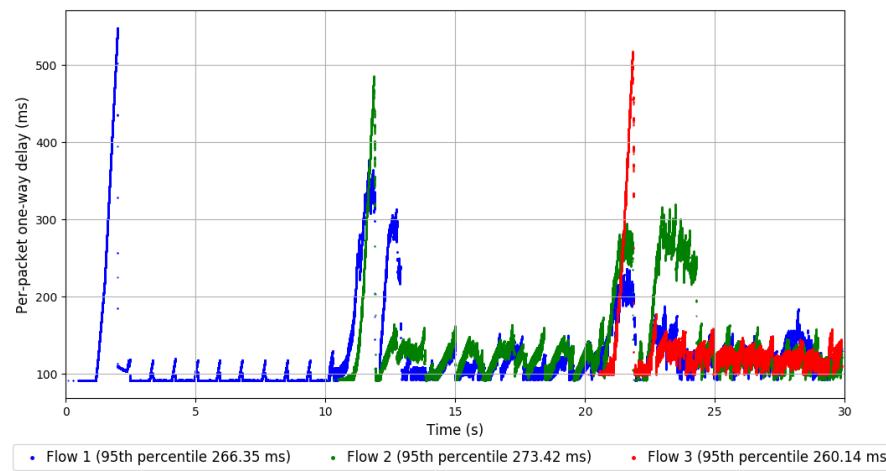
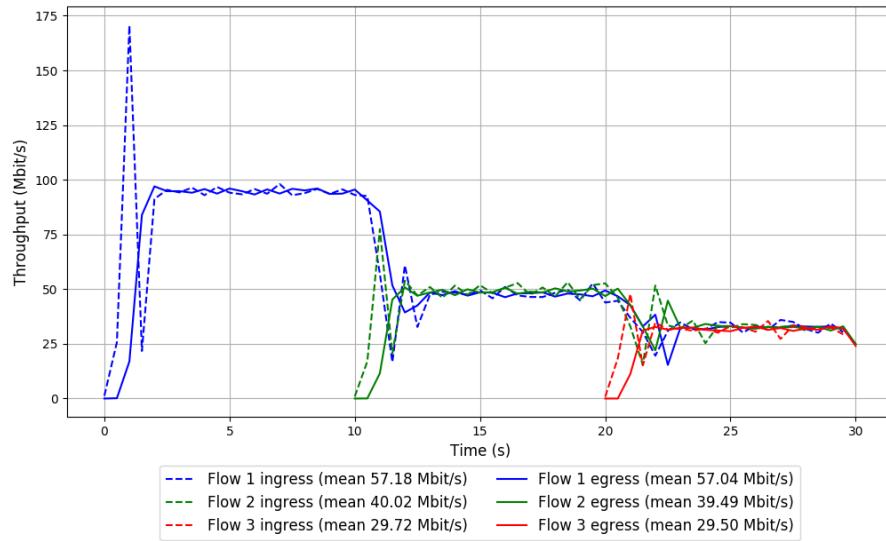


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-01-22 02:56:37
End at: 2019-01-22 02:57:07
Local clock offset: -2.59 ms
Remote clock offset: 3.051 ms

# Below is generated by plot.py at 2019-01-22 04:48:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.95 Mbit/s
95th percentile per-packet one-way delay: 271.285 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 57.04 Mbit/s
95th percentile per-packet one-way delay: 266.345 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 39.49 Mbit/s
95th percentile per-packet one-way delay: 273.420 ms
Loss rate: 2.13%
-- Flow 3:
Average throughput: 29.50 Mbit/s
95th percentile per-packet one-way delay: 260.143 ms
Loss rate: 2.55%
```

Run 2: Report of FillP-Sheep — Data Link

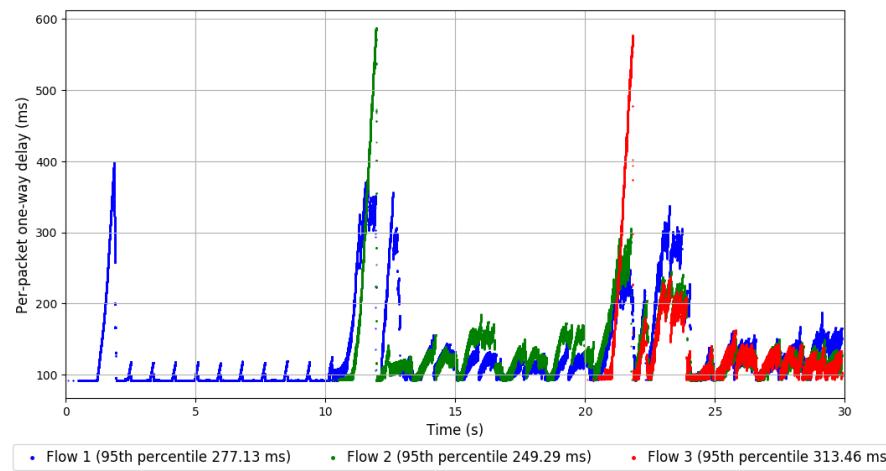
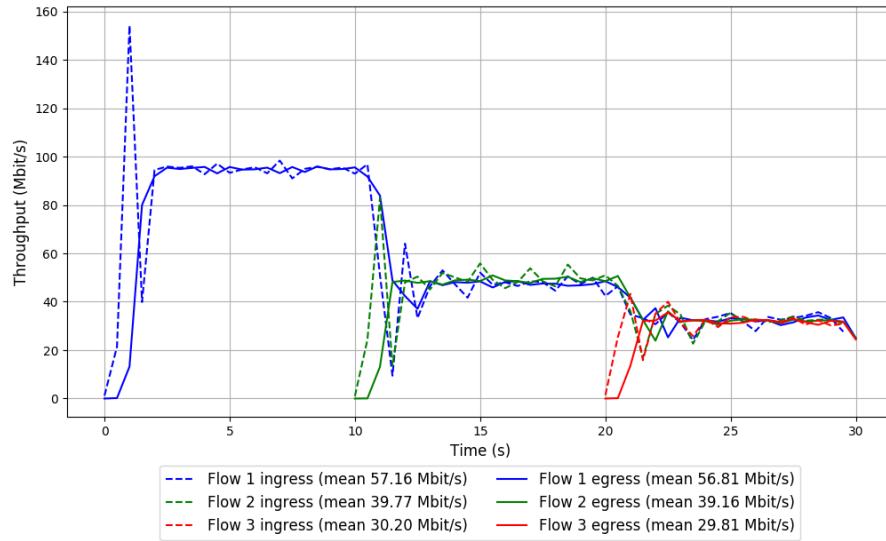


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-01-22 03:23:38
End at: 2019-01-22 03:24:08
Local clock offset: -5.105 ms
Remote clock offset: 1.734 ms

# Below is generated by plot.py at 2019-01-22 04:48:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.60 Mbit/s
95th percentile per-packet one-way delay: 271.495 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 56.81 Mbit/s
95th percentile per-packet one-way delay: 277.134 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 39.16 Mbit/s
95th percentile per-packet one-way delay: 249.290 ms
Loss rate: 2.39%
-- Flow 3:
Average throughput: 29.81 Mbit/s
95th percentile per-packet one-way delay: 313.464 ms
Loss rate: 2.89%
```

Run 3: Report of FillP-Sheep — Data Link

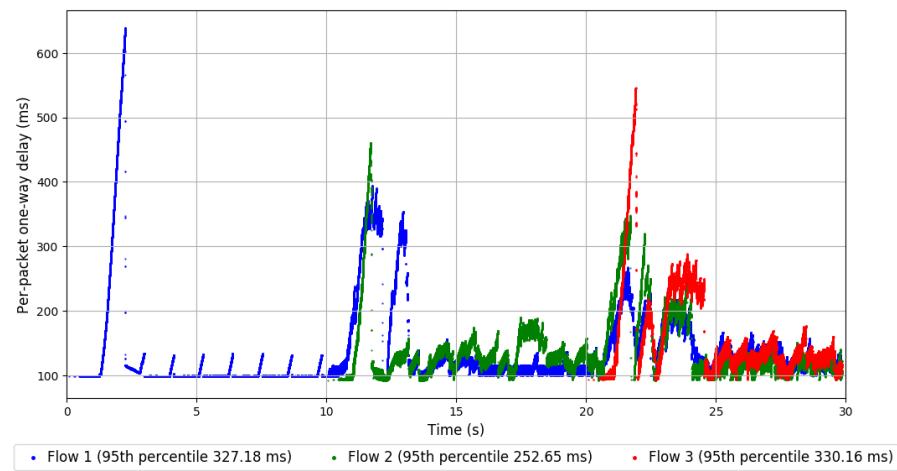
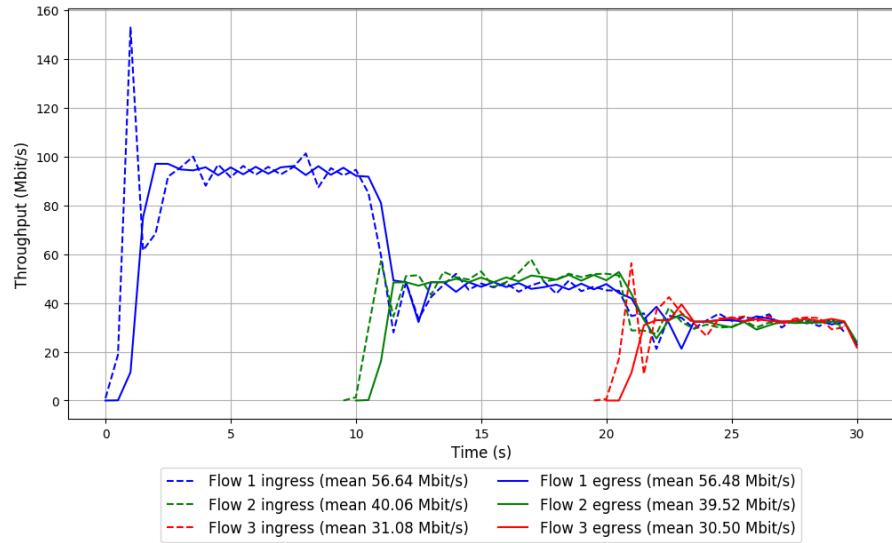


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-22 03:50:38
End at: 2019-01-22 03:51:08
Local clock offset: -7.346 ms
Remote clock offset: 1.07 ms

# Below is generated by plot.py at 2019-01-22 04:49:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.77 Mbit/s
95th percentile per-packet one-way delay: 306.525 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 56.48 Mbit/s
95th percentile per-packet one-way delay: 327.182 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 39.52 Mbit/s
95th percentile per-packet one-way delay: 252.646 ms
Loss rate: 2.10%
-- Flow 3:
Average throughput: 30.50 Mbit/s
95th percentile per-packet one-way delay: 330.164 ms
Loss rate: 3.61%
```

Run 4: Report of FillP-Sheep — Data Link

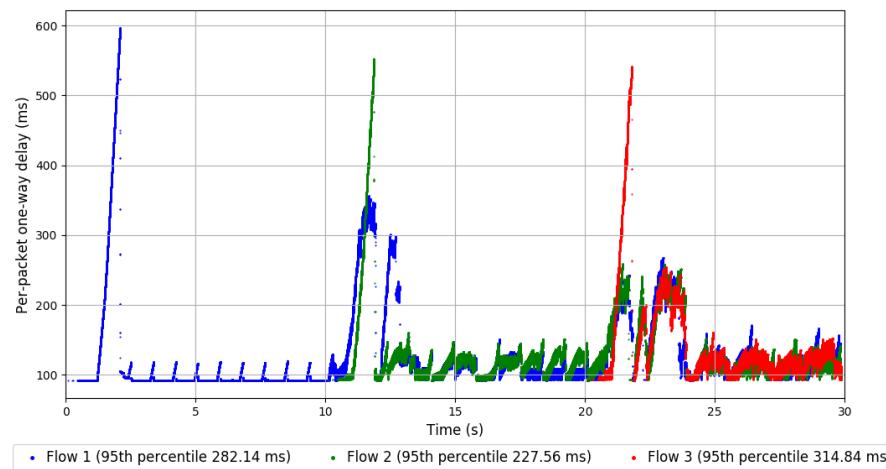
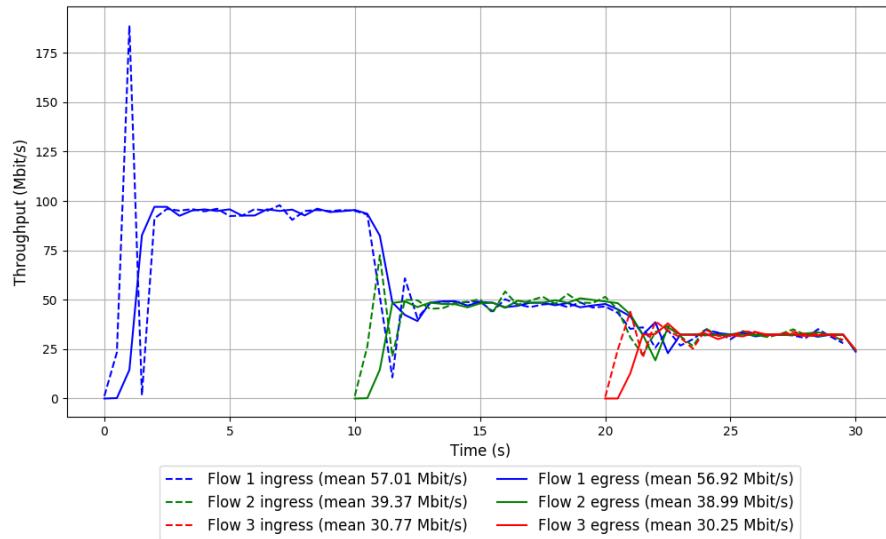


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-22 04:17:38
End at: 2019-01-22 04:18:08
Local clock offset: -7.245 ms
Remote clock offset: 0.824 ms

# Below is generated by plot.py at 2019-01-22 04:49:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.73 Mbit/s
95th percentile per-packet one-way delay: 259.429 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 56.92 Mbit/s
95th percentile per-packet one-way delay: 282.137 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 38.99 Mbit/s
95th percentile per-packet one-way delay: 227.556 ms
Loss rate: 1.83%
-- Flow 3:
Average throughput: 30.25 Mbit/s
95th percentile per-packet one-way delay: 314.843 ms
Loss rate: 3.13%
```

Run 5: Report of FillP-Sheep — Data Link

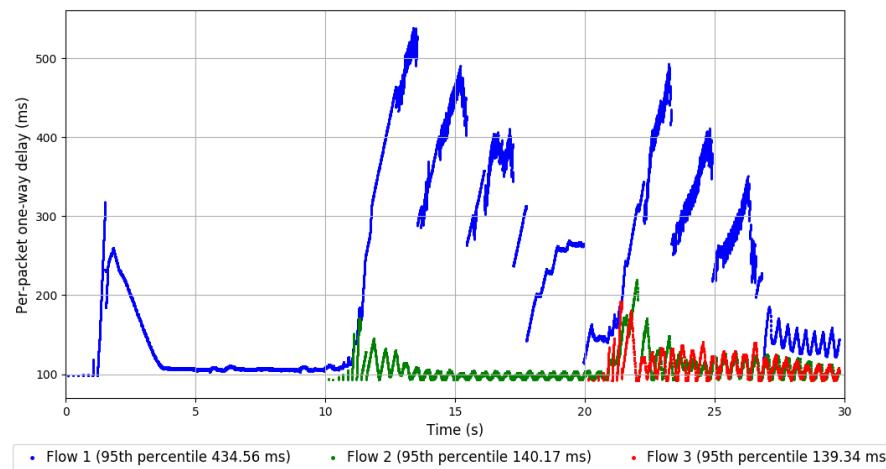
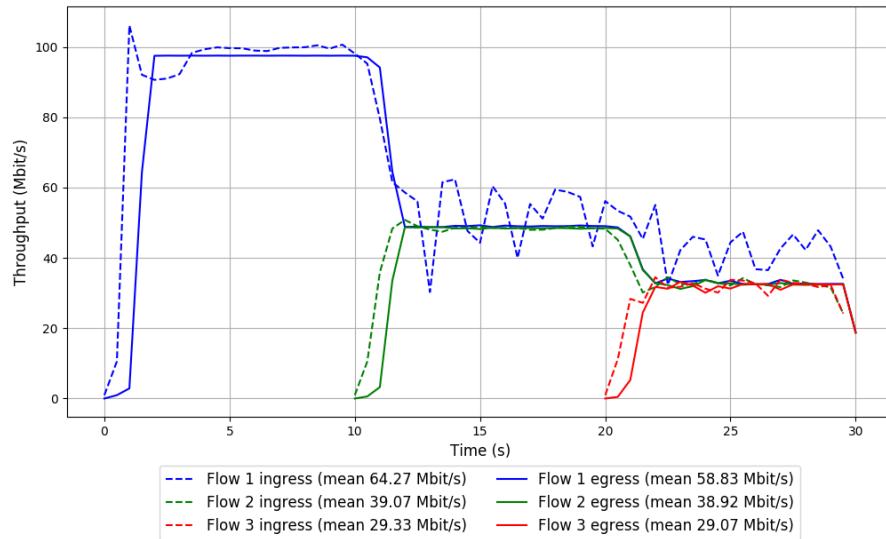


Run 1: Statistics of Indigo

```
Start at: 2019-01-22 02:43:49
End at: 2019-01-22 02:44:19
Local clock offset: -2.324 ms
Remote clock offset: 2.99 ms

# Below is generated by plot.py at 2019-01-22 04:49:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.07 Mbit/s
95th percentile per-packet one-way delay: 396.051 ms
Loss rate: 6.38%
-- Flow 1:
Average throughput: 58.83 Mbit/s
95th percentile per-packet one-way delay: 434.557 ms
Loss rate: 9.02%
-- Flow 2:
Average throughput: 38.92 Mbit/s
95th percentile per-packet one-way delay: 140.171 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 29.07 Mbit/s
95th percentile per-packet one-way delay: 139.342 ms
Loss rate: 2.61%
```

Run 1: Report of Indigo — Data Link

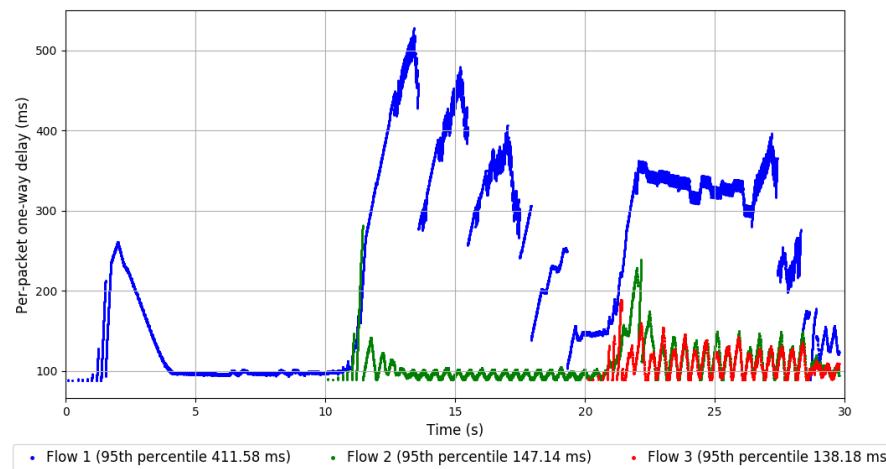
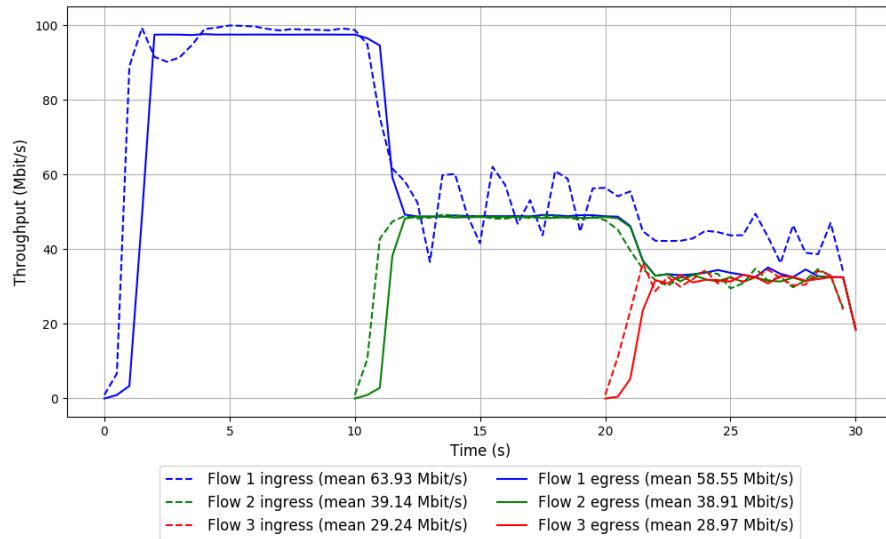


Run 2: Statistics of Indigo

```
Start at: 2019-01-22 03:10:49
End at: 2019-01-22 03:11:19
Local clock offset: -1.757 ms
Remote clock offset: 7.89 ms

# Below is generated by plot.py at 2019-01-22 04:49:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.77 Mbit/s
95th percentile per-packet one-way delay: 372.186 ms
Loss rate: 6.38%
-- Flow 1:
Average throughput: 58.55 Mbit/s
95th percentile per-packet one-way delay: 411.580 ms
Loss rate: 8.94%
-- Flow 2:
Average throughput: 38.91 Mbit/s
95th percentile per-packet one-way delay: 147.144 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 28.97 Mbit/s
95th percentile per-packet one-way delay: 138.181 ms
Loss rate: 2.69%
```

Run 2: Report of Indigo — Data Link

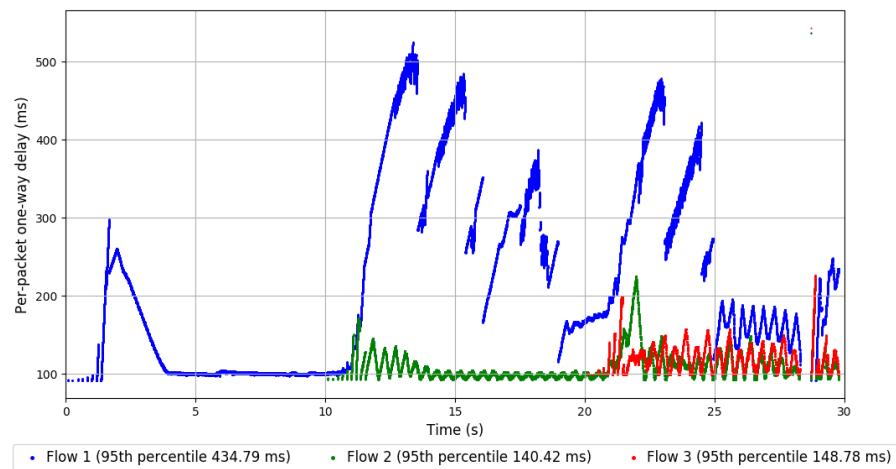
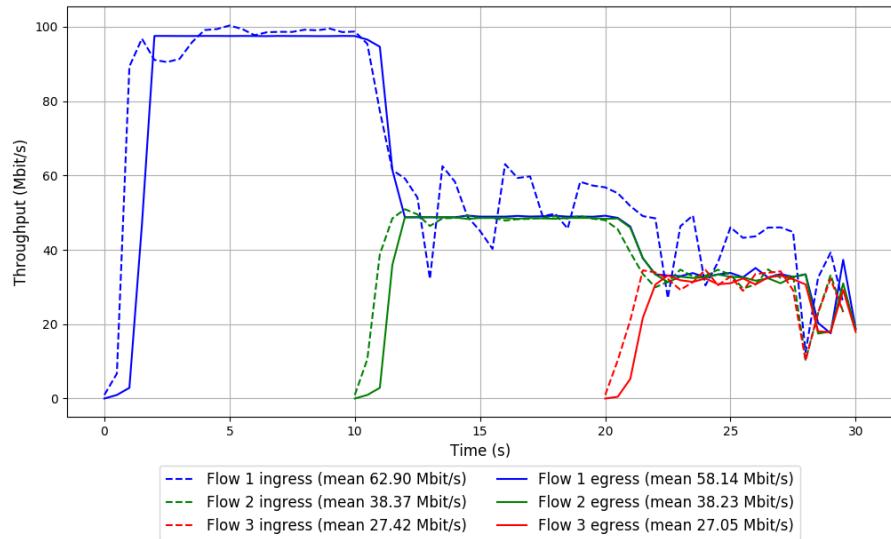


Run 3: Statistics of Indigo

```
Start at: 2019-01-22 03:37:50
End at: 2019-01-22 03:38:20
Local clock offset: -8.334 ms
Remote clock offset: 1.171 ms

# Below is generated by plot.py at 2019-01-22 04:49:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.29 Mbit/s
95th percentile per-packet one-way delay: 391.928 ms
Loss rate: 5.84%
-- Flow 1:
Average throughput: 58.14 Mbit/s
95th percentile per-packet one-way delay: 434.790 ms
Loss rate: 8.10%
-- Flow 2:
Average throughput: 38.23 Mbit/s
95th percentile per-packet one-way delay: 140.422 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 27.05 Mbit/s
95th percentile per-packet one-way delay: 148.776 ms
Loss rate: 3.13%
```

Run 3: Report of Indigo — Data Link

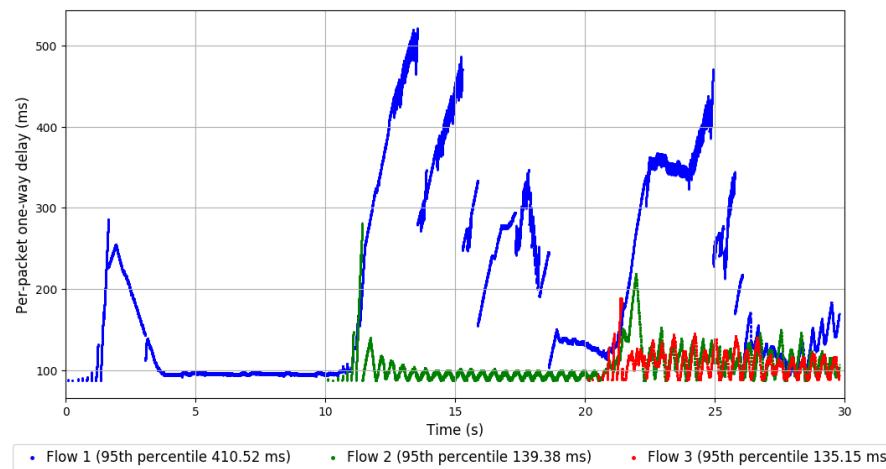
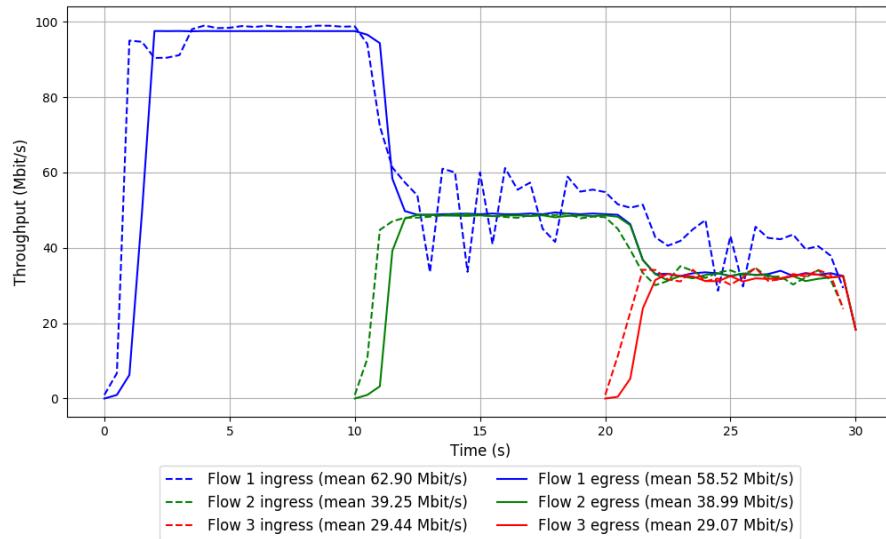


Run 4: Statistics of Indigo

```
Start at: 2019-01-22 04:04:49
End at: 2019-01-22 04:05:19
Local clock offset: -7.194 ms
Remote clock offset: 5.782 ms

# Below is generated by plot.py at 2019-01-22 04:49:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.82 Mbit/s
95th percentile per-packet one-way delay: 365.356 ms
Loss rate: 5.48%
-- Flow 1:
Average throughput: 58.52 Mbit/s
95th percentile per-packet one-way delay: 410.520 ms
Loss rate: 7.50%
-- Flow 2:
Average throughput: 38.99 Mbit/s
95th percentile per-packet one-way delay: 139.378 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 29.07 Mbit/s
95th percentile per-packet one-way delay: 135.145 ms
Loss rate: 3.02%
```

Run 4: Report of Indigo — Data Link

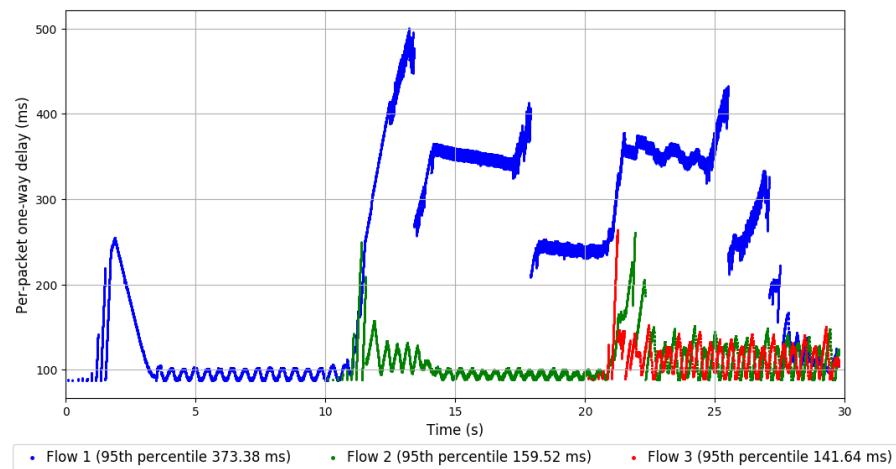
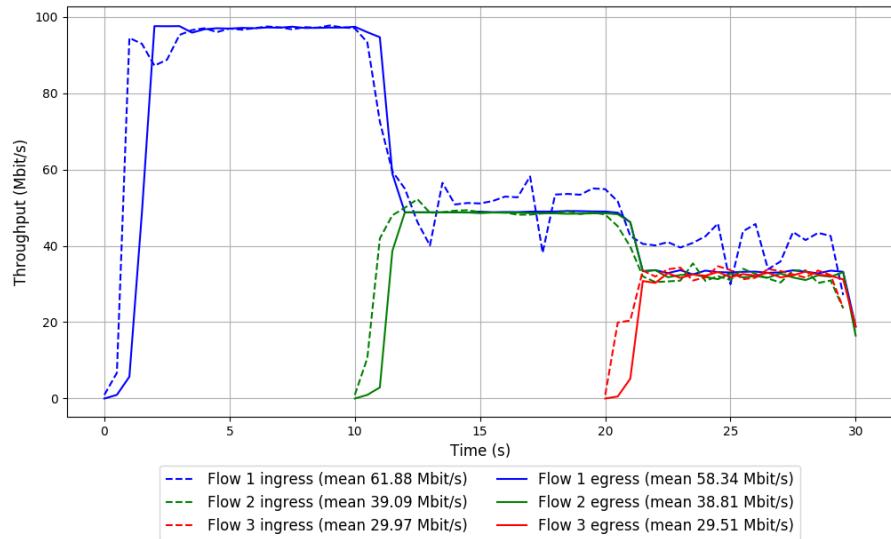


Run 5: Statistics of Indigo

```
Start at: 2019-01-22 04:31:49
End at: 2019-01-22 04:32:19
Local clock offset: -7.069 ms
Remote clock offset: 5.108 ms

# Below is generated by plot.py at 2019-01-22 04:49:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.68 Mbit/s
95th percentile per-packet one-way delay: 360.950 ms
Loss rate: 4.71%
-- Flow 1:
Average throughput: 58.34 Mbit/s
95th percentile per-packet one-way delay: 373.385 ms
Loss rate: 6.26%
-- Flow 2:
Average throughput: 38.81 Mbit/s
95th percentile per-packet one-way delay: 159.516 ms
Loss rate: 1.57%
-- Flow 3:
Average throughput: 29.51 Mbit/s
95th percentile per-packet one-way delay: 141.637 ms
Loss rate: 3.28%
```

Run 5: Report of Indigo — Data Link

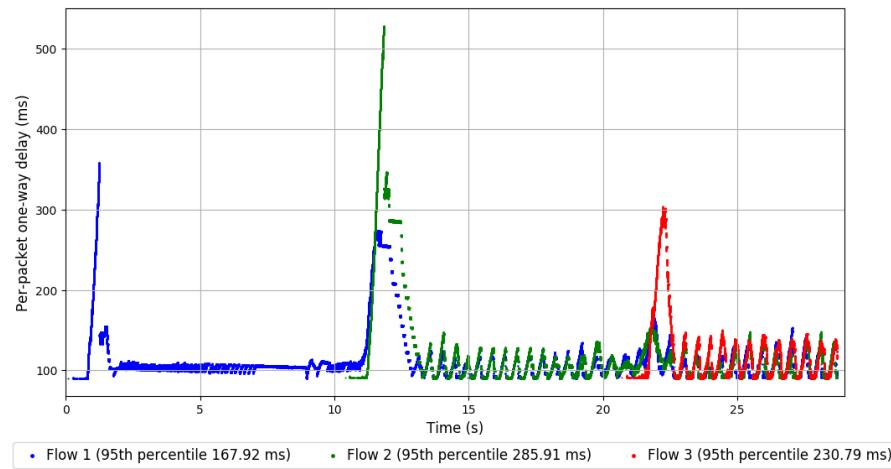
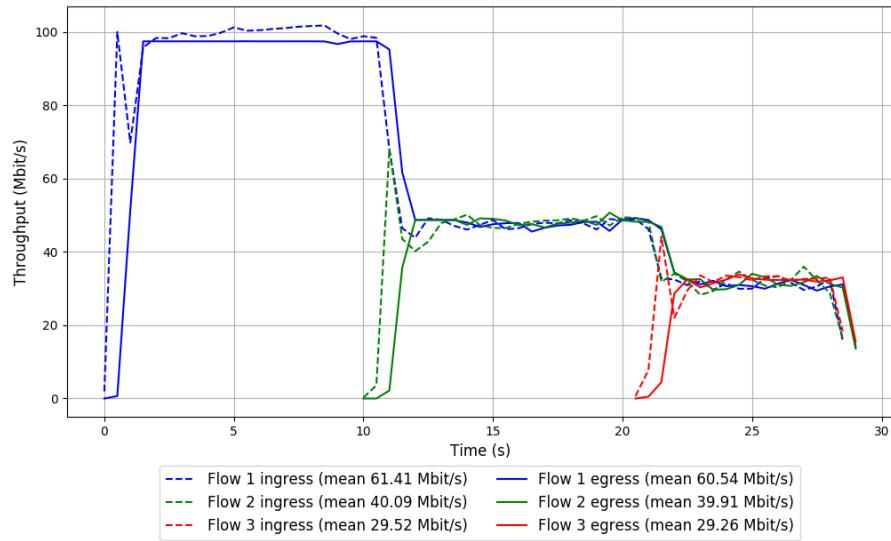


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-01-22 02:47:41
End at: 2019-01-22 02:48:11
Local clock offset: -2.425 ms
Remote clock offset: 4.131 ms

# Below is generated by plot.py at 2019-01-22 04:49:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.27 Mbit/s
95th percentile per-packet one-way delay: 207.899 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 60.54 Mbit/s
95th percentile per-packet one-way delay: 167.919 ms
Loss rate: 2.00%
-- Flow 2:
Average throughput: 39.91 Mbit/s
95th percentile per-packet one-way delay: 285.911 ms
Loss rate: 1.38%
-- Flow 3:
Average throughput: 29.26 Mbit/s
95th percentile per-packet one-way delay: 230.789 ms
Loss rate: 3.00%
```

Run 1: Report of Indigo-MusesC3 — Data Link

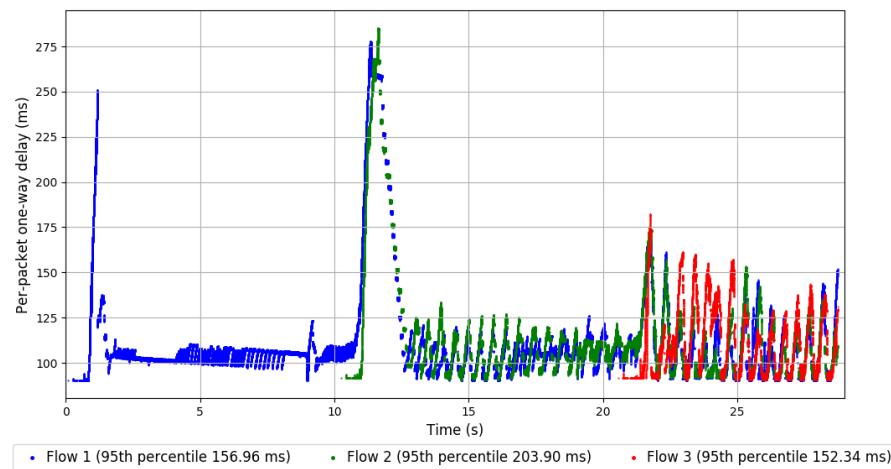
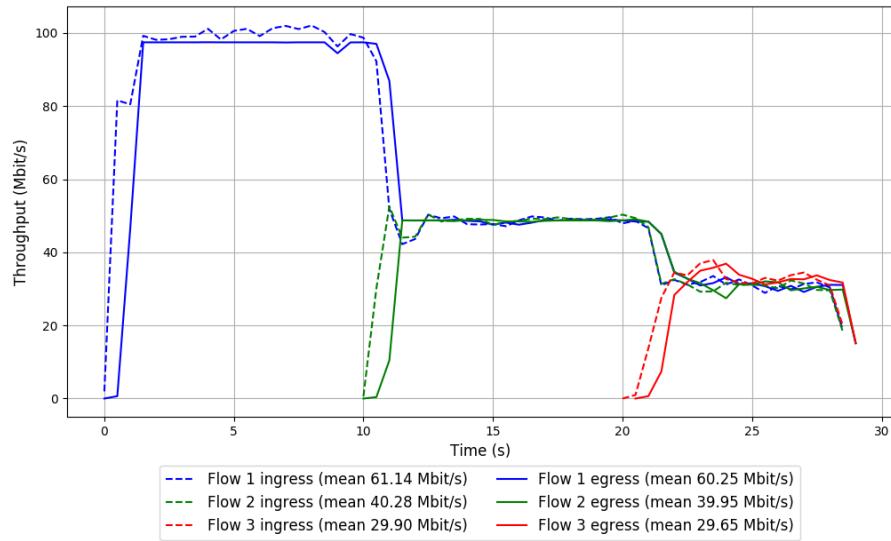


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-01-22 03:14:41
End at: 2019-01-22 03:15:11
Local clock offset: -2.479 ms
Remote clock offset: 3.505 ms

# Below is generated by plot.py at 2019-01-22 04:50:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.48 Mbit/s
95th percentile per-packet one-way delay: 164.289 ms
Loss rate: 2.02%
-- Flow 1:
Average throughput: 60.25 Mbit/s
95th percentile per-packet one-way delay: 156.959 ms
Loss rate: 2.02%
-- Flow 2:
Average throughput: 39.95 Mbit/s
95th percentile per-packet one-way delay: 203.901 ms
Loss rate: 1.75%
-- Flow 3:
Average throughput: 29.65 Mbit/s
95th percentile per-packet one-way delay: 152.335 ms
Loss rate: 2.88%
```

Run 2: Report of Indigo-MusesC3 — Data Link

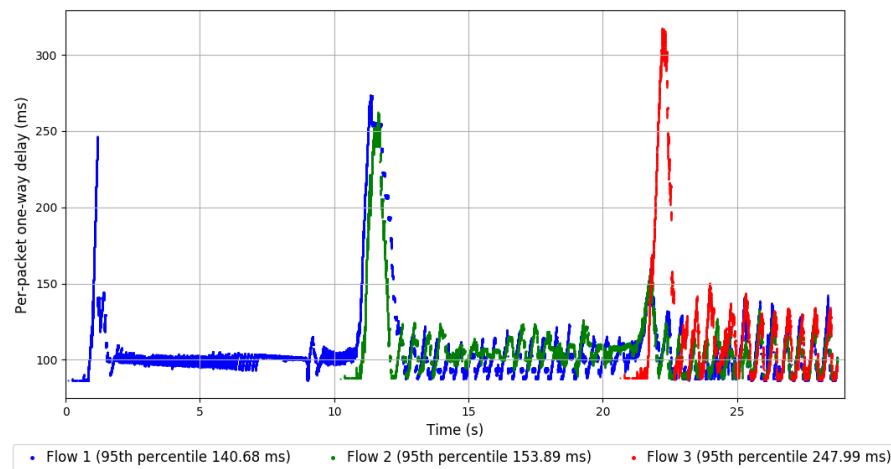
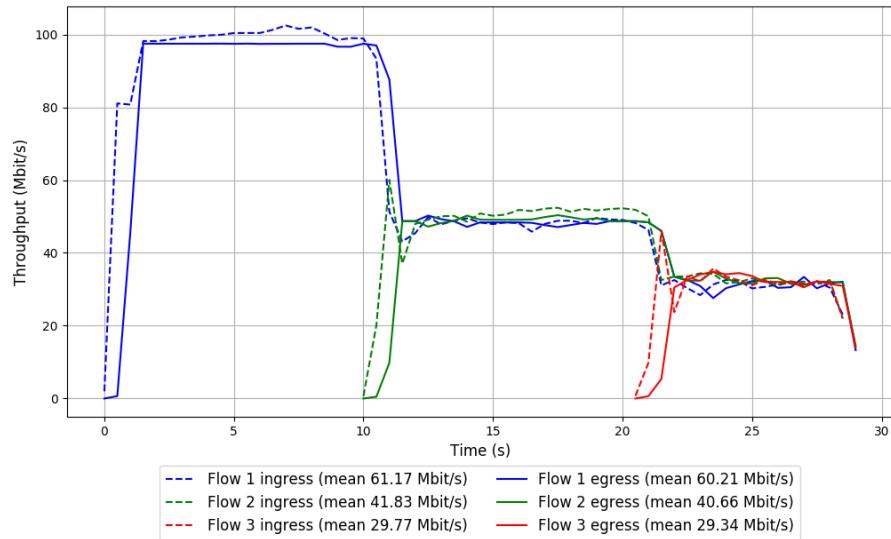


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-01-22 03:41:41
End at: 2019-01-22 03:42:11
Local clock offset: -8.704 ms
Remote clock offset: 6.059 ms

# Below is generated by plot.py at 2019-01-22 04:50:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.79 Mbit/s
95th percentile per-packet one-way delay: 153.790 ms
Loss rate: 2.69%
-- Flow 1:
Average throughput: 60.21 Mbit/s
95th percentile per-packet one-way delay: 140.677 ms
Loss rate: 2.15%
-- Flow 2:
Average throughput: 40.66 Mbit/s
95th percentile per-packet one-way delay: 153.887 ms
Loss rate: 3.62%
-- Flow 3:
Average throughput: 29.34 Mbit/s
95th percentile per-packet one-way delay: 247.988 ms
Loss rate: 3.54%
```

Run 3: Report of Indigo-MusesC3 — Data Link

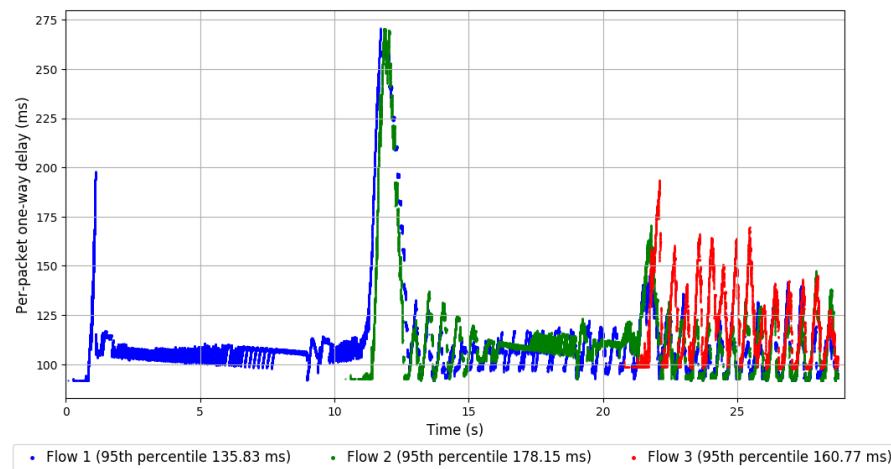
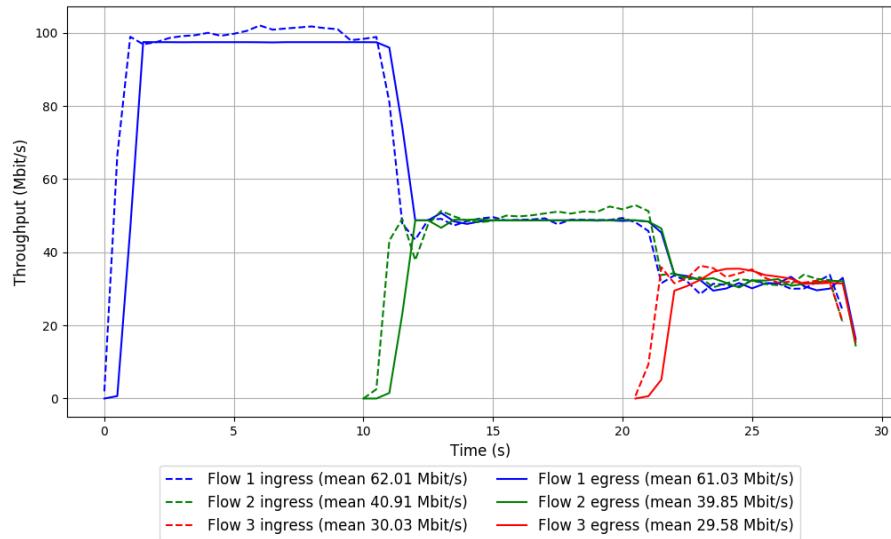


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-01-22 04:08:41
End at: 2019-01-22 04:09:11
Local clock offset: -6.417 ms
Remote clock offset: 1.786 ms

# Below is generated by plot.py at 2019-01-22 04:50:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.89 Mbit/s
95th percentile per-packet one-way delay: 154.693 ms
Loss rate: 2.66%
-- Flow 1:
Average throughput: 61.03 Mbit/s
95th percentile per-packet one-way delay: 135.826 ms
Loss rate: 2.16%
-- Flow 2:
Average throughput: 39.85 Mbit/s
95th percentile per-packet one-way delay: 178.147 ms
Loss rate: 3.52%
-- Flow 3:
Average throughput: 29.58 Mbit/s
95th percentile per-packet one-way delay: 160.772 ms
Loss rate: 3.65%
```

Run 4: Report of Indigo-MusesC3 — Data Link

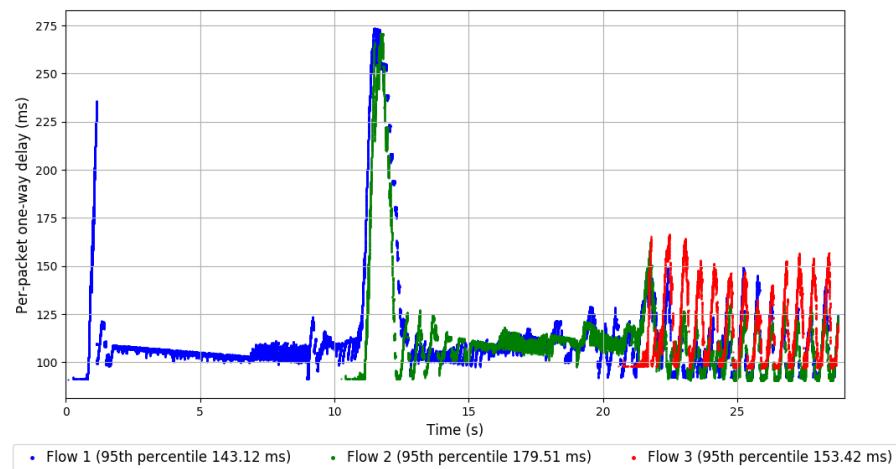
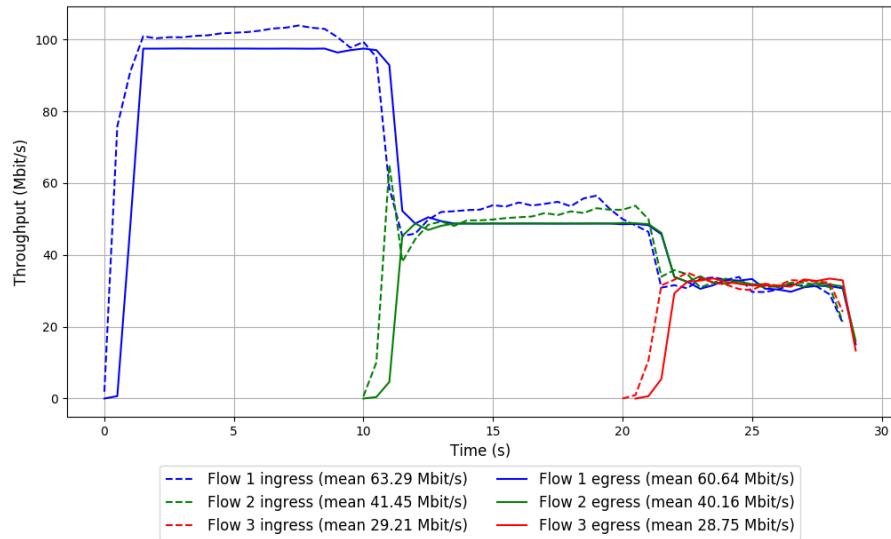


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-01-22 04:35:41
End at: 2019-01-22 04:36:11
Local clock offset: -7.11 ms
Remote clock offset: 2.203 ms

# Below is generated by plot.py at 2019-01-22 04:50:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.77 Mbit/s
95th percentile per-packet one-way delay: 152.831 ms
Loss rate: 4.46%
-- Flow 1:
Average throughput: 60.64 Mbit/s
95th percentile per-packet one-way delay: 143.121 ms
Loss rate: 4.76%
-- Flow 2:
Average throughput: 40.16 Mbit/s
95th percentile per-packet one-way delay: 179.512 ms
Loss rate: 4.01%
-- Flow 3:
Average throughput: 28.75 Mbit/s
95th percentile per-packet one-way delay: 153.418 ms
Loss rate: 3.66%
```

Run 5: Report of Indigo-MusesC3 — Data Link

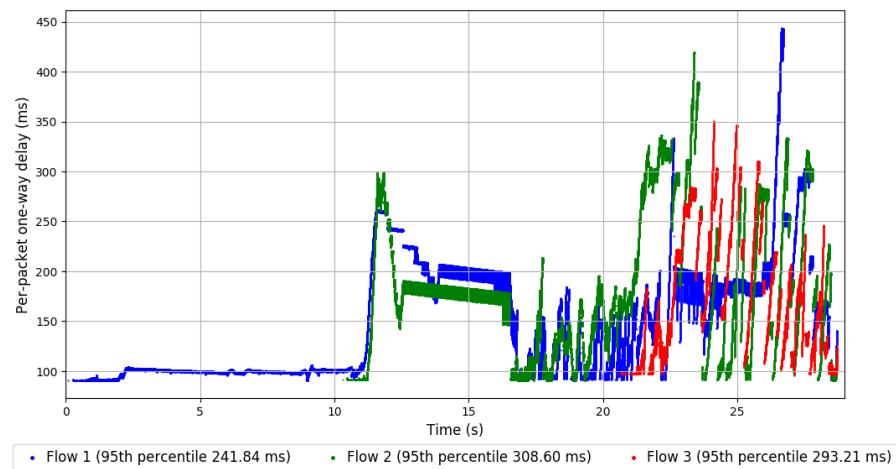
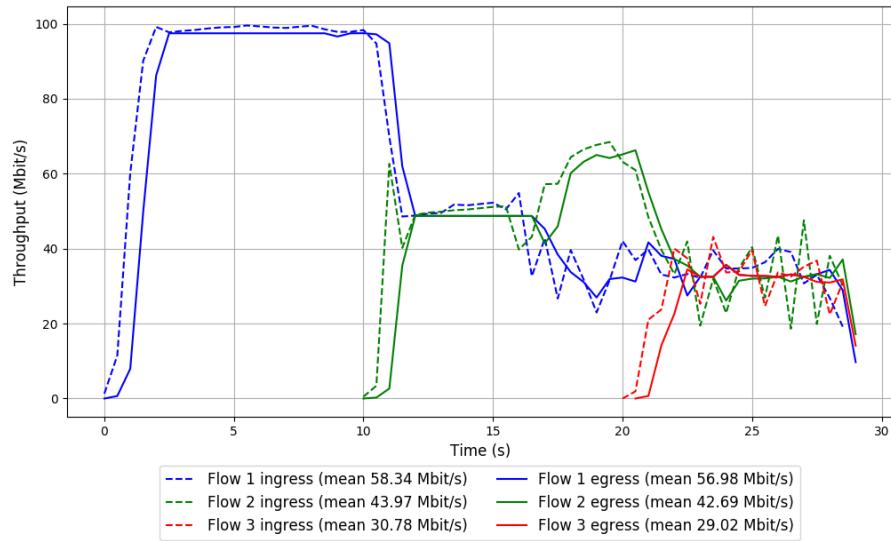


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-01-22 02:39:55
End at: 2019-01-22 02:40:25
Local clock offset: -2.393 ms
Remote clock offset: 4.332 ms

# Below is generated by plot.py at 2019-01-22 04:50:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.76 Mbit/s
95th percentile per-packet one-way delay: 280.504 ms
Loss rate: 3.62%
-- Flow 1:
Average throughput: 56.98 Mbit/s
95th percentile per-packet one-way delay: 241.844 ms
Loss rate: 2.92%
-- Flow 2:
Average throughput: 42.69 Mbit/s
95th percentile per-packet one-way delay: 308.596 ms
Loss rate: 3.83%
-- Flow 3:
Average throughput: 29.02 Mbit/s
95th percentile per-packet one-way delay: 293.211 ms
Loss rate: 7.55%
```

Run 1: Report of Indigo-MusesC5 — Data Link

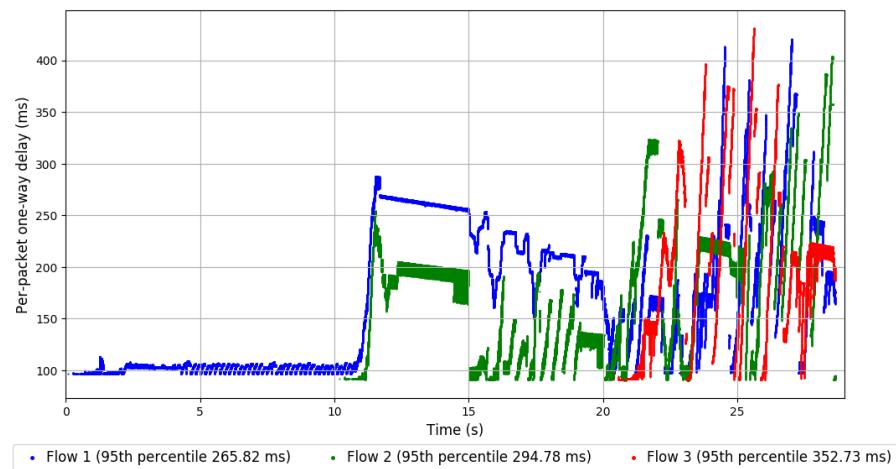
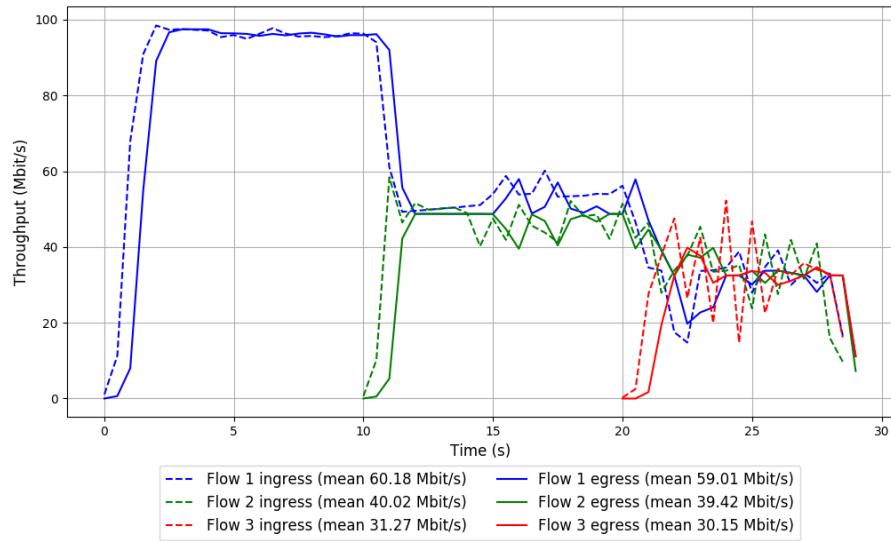


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-01-22 03:06:55
End at: 2019-01-22 03:07:25
Local clock offset: -2.563 ms
Remote clock offset: 4.17 ms

# Below is generated by plot.py at 2019-01-22 04:50:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.20 Mbit/s
95th percentile per-packet one-way delay: 280.180 ms
Loss rate: 2.74%
-- Flow 1:
Average throughput: 59.01 Mbit/s
95th percentile per-packet one-way delay: 265.817 ms
Loss rate: 2.47%
-- Flow 2:
Average throughput: 39.42 Mbit/s
95th percentile per-packet one-way delay: 294.781 ms
Loss rate: 2.42%
-- Flow 3:
Average throughput: 30.15 Mbit/s
95th percentile per-packet one-way delay: 352.727 ms
Loss rate: 5.43%
```

Run 2: Report of Indigo-MusesC5 — Data Link

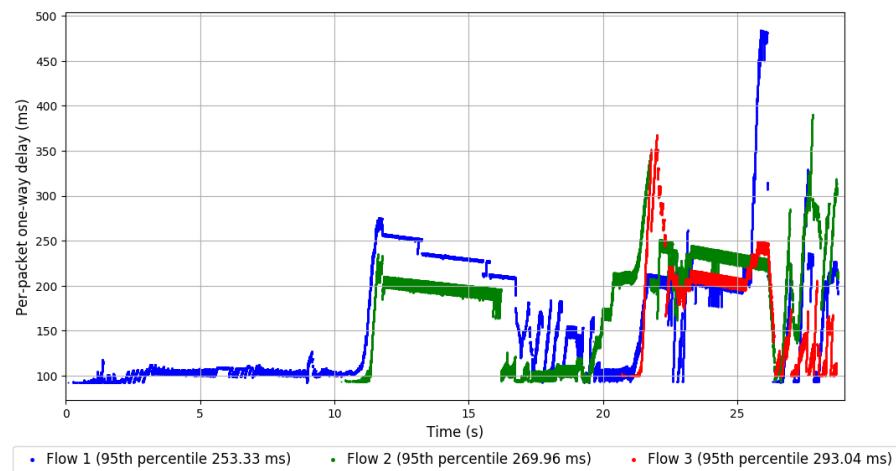
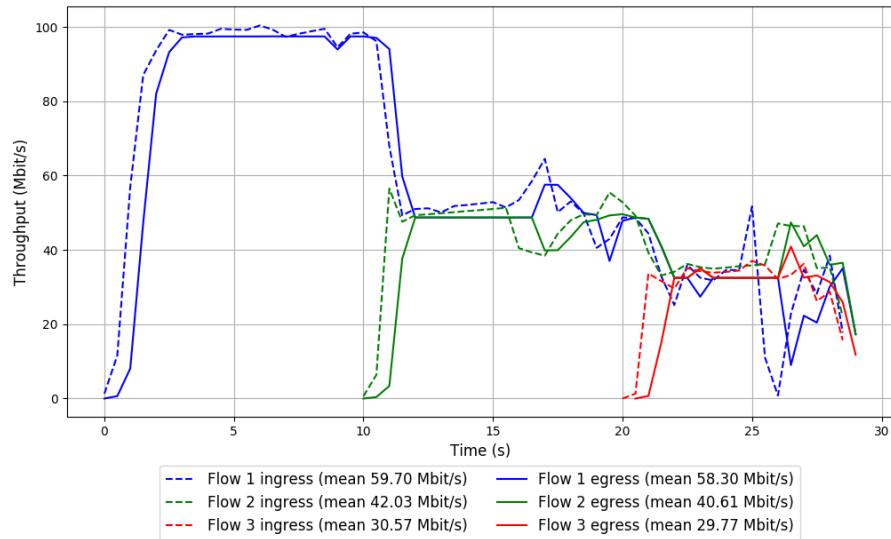


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-01-22 03:33:56
End at: 2019-01-22 03:34:26
Local clock offset: -7.115 ms
Remote clock offset: 1.101 ms

# Below is generated by plot.py at 2019-01-22 04:50:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.00 Mbit/s
95th percentile per-packet one-way delay: 254.746 ms
Loss rate: 3.53%
-- Flow 1:
Average throughput: 58.30 Mbit/s
95th percentile per-packet one-way delay: 253.326 ms
Loss rate: 2.93%
-- Flow 2:
Average throughput: 40.61 Mbit/s
95th percentile per-packet one-way delay: 269.960 ms
Loss rate: 4.29%
-- Flow 3:
Average throughput: 29.77 Mbit/s
95th percentile per-packet one-way delay: 293.037 ms
Loss rate: 5.24%
```

Run 3: Report of Indigo-MusesC5 — Data Link

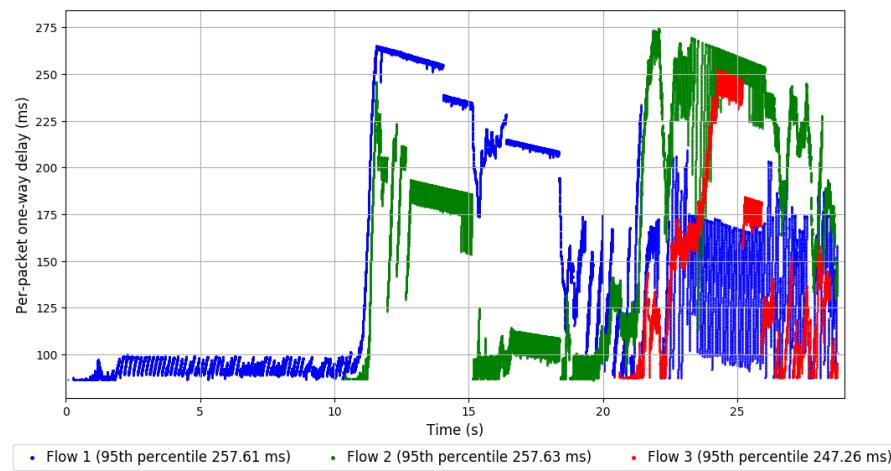
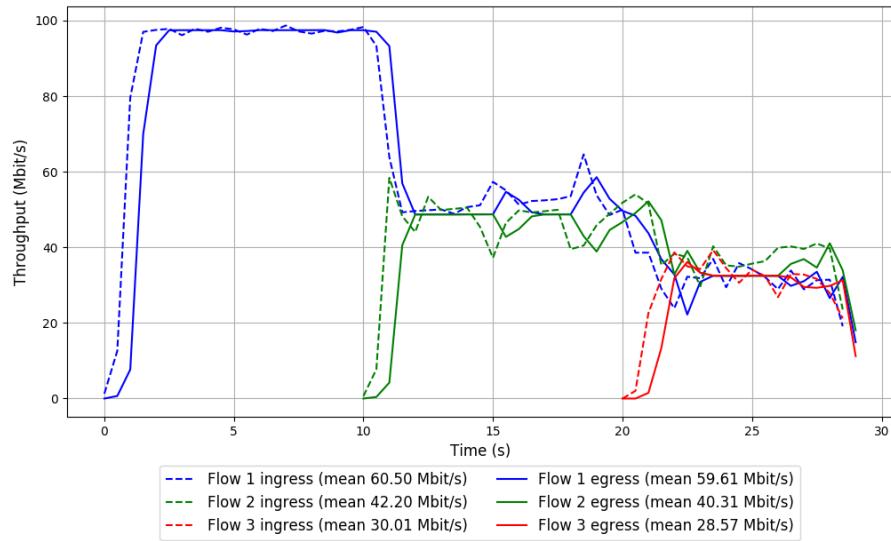


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-01-22 04:00:55
End at: 2019-01-22 04:01:25
Local clock offset: -7.294 ms
Remote clock offset: 6.178 ms

# Below is generated by plot.py at 2019-01-22 04:50:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.88 Mbit/s
95th percentile per-packet one-way delay: 256.944 ms
Loss rate: 3.25%
-- Flow 1:
Average throughput: 59.61 Mbit/s
95th percentile per-packet one-way delay: 257.610 ms
Loss rate: 1.92%
-- Flow 2:
Average throughput: 40.31 Mbit/s
95th percentile per-packet one-way delay: 257.627 ms
Loss rate: 5.08%
-- Flow 3:
Average throughput: 28.57 Mbit/s
95th percentile per-packet one-way delay: 247.260 ms
Loss rate: 6.72%
```

Run 4: Report of Indigo-MusesC5 — Data Link

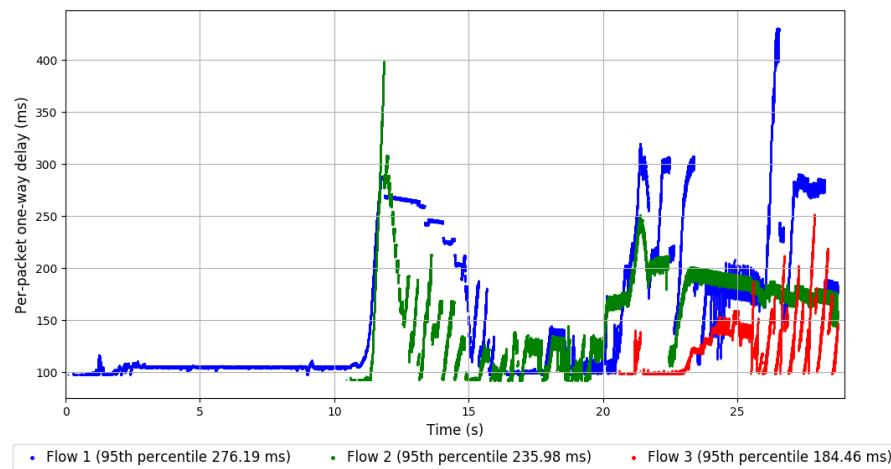
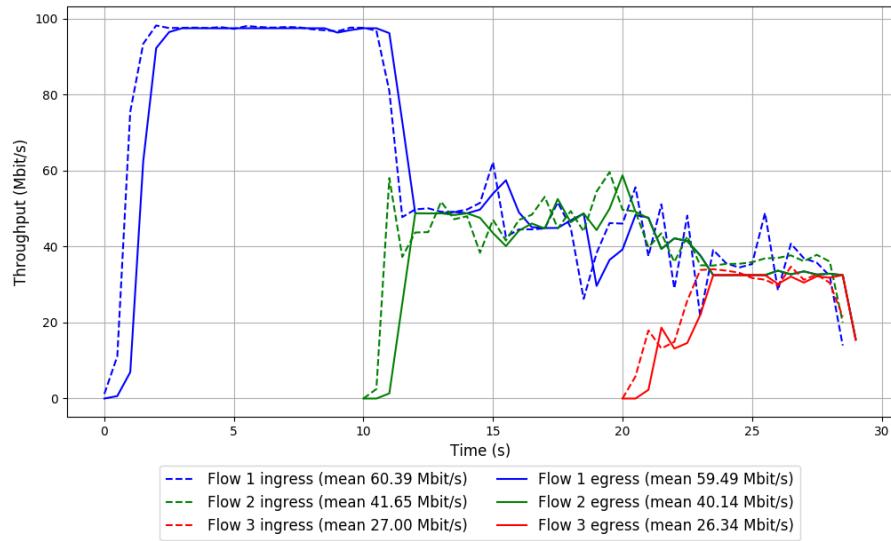


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-01-22 04:27:56
End at: 2019-01-22 04:28:26
Local clock offset: -6.297 ms
Remote clock offset: 2.285 ms

# Below is generated by plot.py at 2019-01-22 04:51:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.79 Mbit/s
95th percentile per-packet one-way delay: 267.909 ms
Loss rate: 2.93%
-- Flow 1:
Average throughput: 59.49 Mbit/s
95th percentile per-packet one-way delay: 276.189 ms
Loss rate: 2.10%
-- Flow 2:
Average throughput: 40.14 Mbit/s
95th percentile per-packet one-way delay: 235.983 ms
Loss rate: 4.52%
-- Flow 3:
Average throughput: 26.34 Mbit/s
95th percentile per-packet one-way delay: 184.463 ms
Loss rate: 3.91%
```

Run 5: Report of Indigo-MusesC5 — Data Link

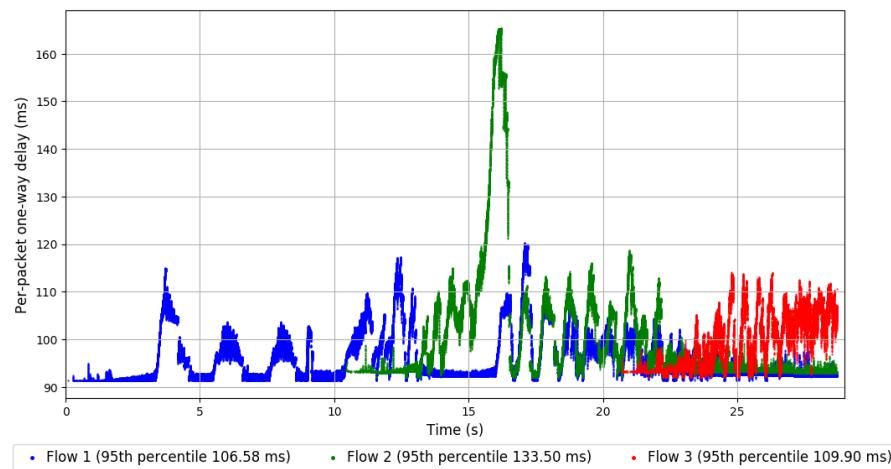
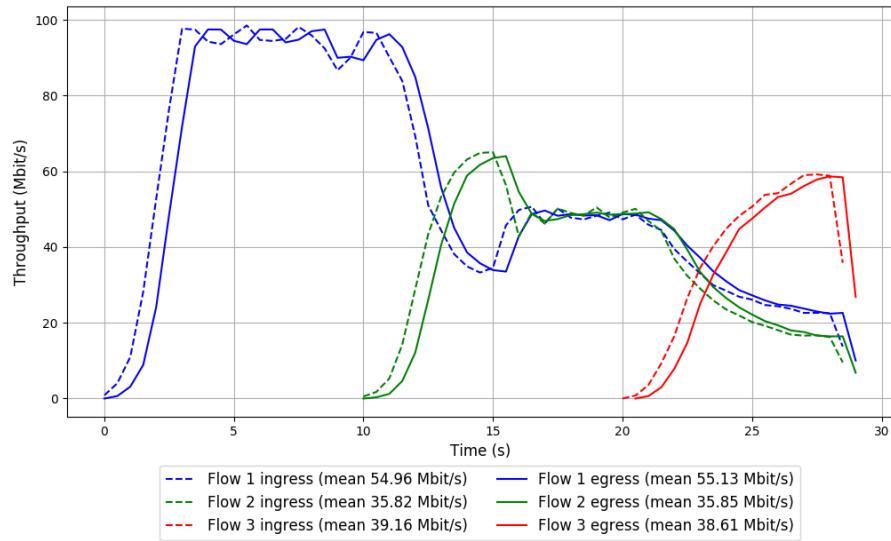


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-01-22 02:50:12
End at: 2019-01-22 02:50:42
Local clock offset: -2.546 ms
Remote clock offset: 2.861 ms

# Below is generated by plot.py at 2019-01-22 04:51:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.21 Mbit/s
95th percentile per-packet one-way delay: 111.108 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 55.13 Mbit/s
95th percentile per-packet one-way delay: 106.582 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 35.85 Mbit/s
95th percentile per-packet one-way delay: 133.499 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 38.61 Mbit/s
95th percentile per-packet one-way delay: 109.900 ms
Loss rate: 3.43%
```

Run 1: Report of Indigo-MusesD — Data Link

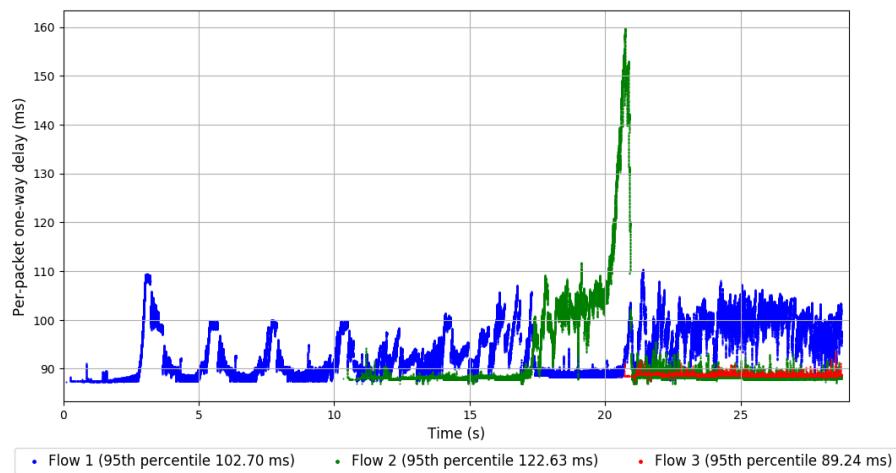
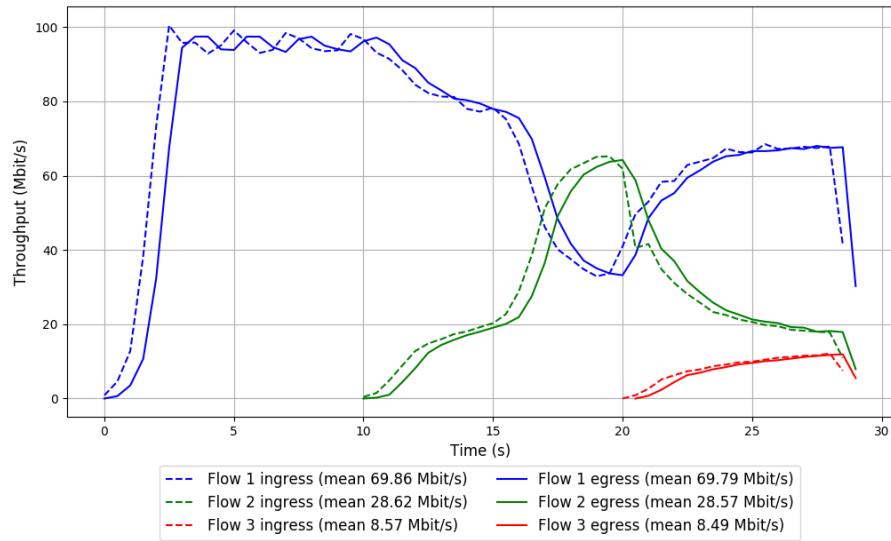


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-22 03:17:12
End at: 2019-01-22 03:17:42
Local clock offset: -3.19 ms
Remote clock offset: 7.035 ms

# Below is generated by plot.py at 2019-01-22 04:51:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.57 Mbit/s
95th percentile per-packet one-way delay: 104.608 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 69.79 Mbit/s
95th percentile per-packet one-way delay: 102.704 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 28.57 Mbit/s
95th percentile per-packet one-way delay: 122.634 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 8.49 Mbit/s
95th percentile per-packet one-way delay: 89.244 ms
Loss rate: 2.94%
```

Run 2: Report of Indigo-MusesD — Data Link

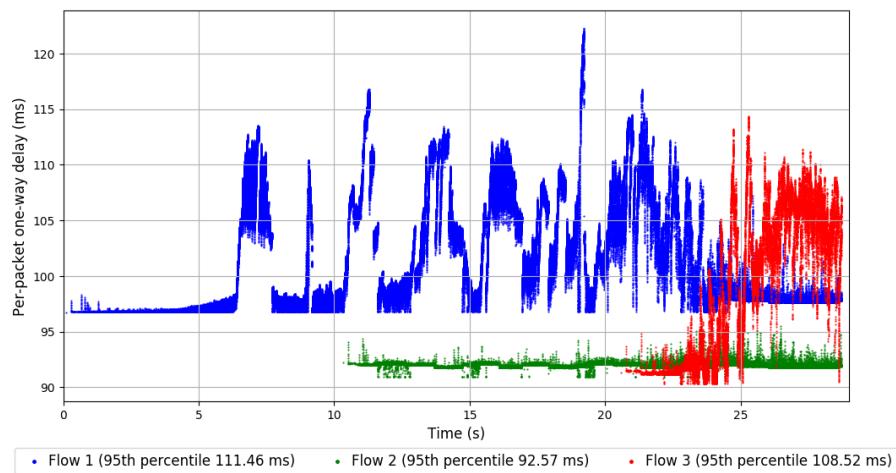
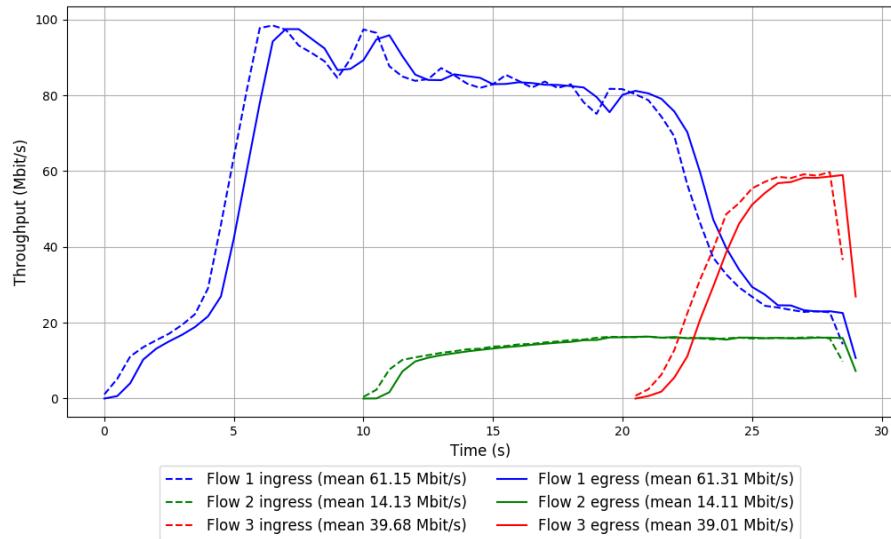


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-22 03:44:12
End at: 2019-01-22 03:44:42
Local clock offset: -8.907 ms
Remote clock offset: 2.218 ms

# Below is generated by plot.py at 2019-01-22 04:51:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.45 Mbit/s
95th percentile per-packet one-way delay: 110.991 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 61.31 Mbit/s
95th percentile per-packet one-way delay: 111.460 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 14.11 Mbit/s
95th percentile per-packet one-way delay: 92.568 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 39.01 Mbit/s
95th percentile per-packet one-way delay: 108.521 ms
Loss rate: 3.77%
```

Run 3: Report of Indigo-MusesD — Data Link

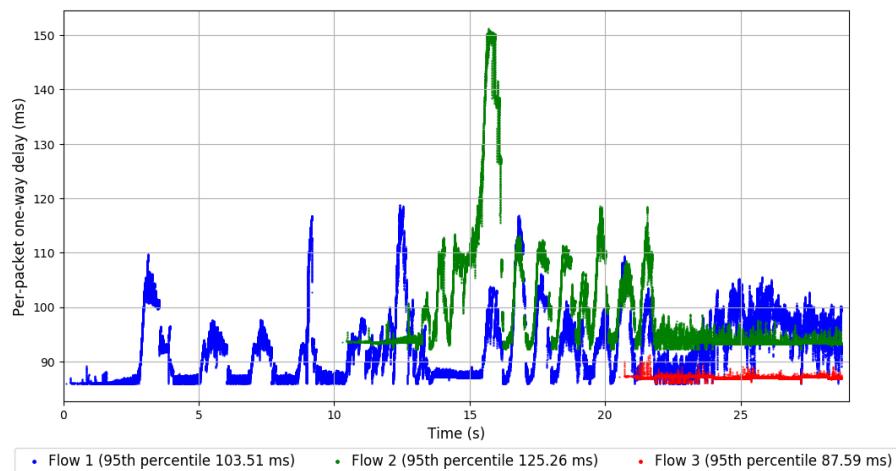
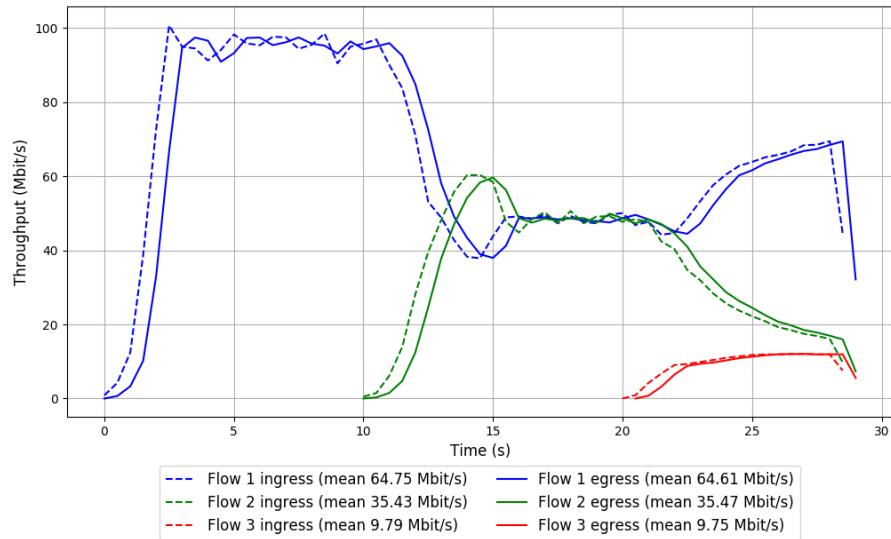


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-22 04:11:11
End at: 2019-01-22 04:11:41
Local clock offset: -6.429 ms
Remote clock offset: 7.086 ms

# Below is generated by plot.py at 2019-01-22 04:51:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.24 Mbit/s
95th percentile per-packet one-way delay: 110.278 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 64.61 Mbit/s
95th percentile per-packet one-way delay: 103.506 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 35.47 Mbit/s
95th percentile per-packet one-way delay: 125.257 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 9.75 Mbit/s
95th percentile per-packet one-way delay: 87.588 ms
Loss rate: 2.45%
```

Run 4: Report of Indigo-MusesD — Data Link

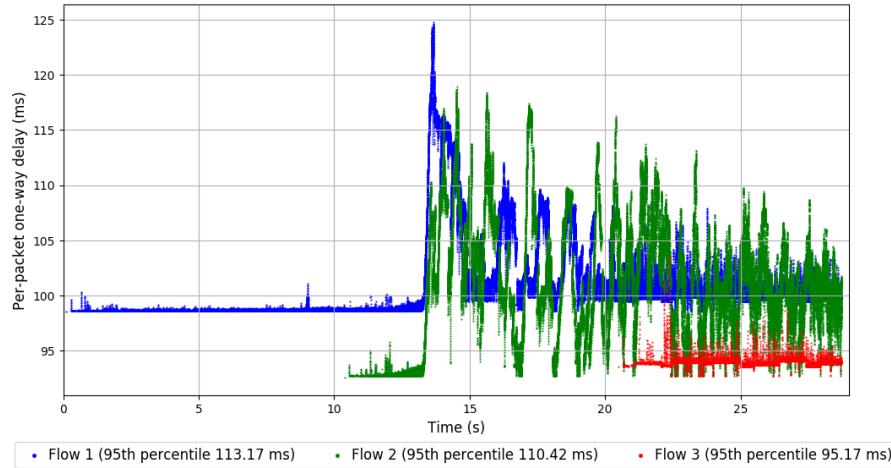
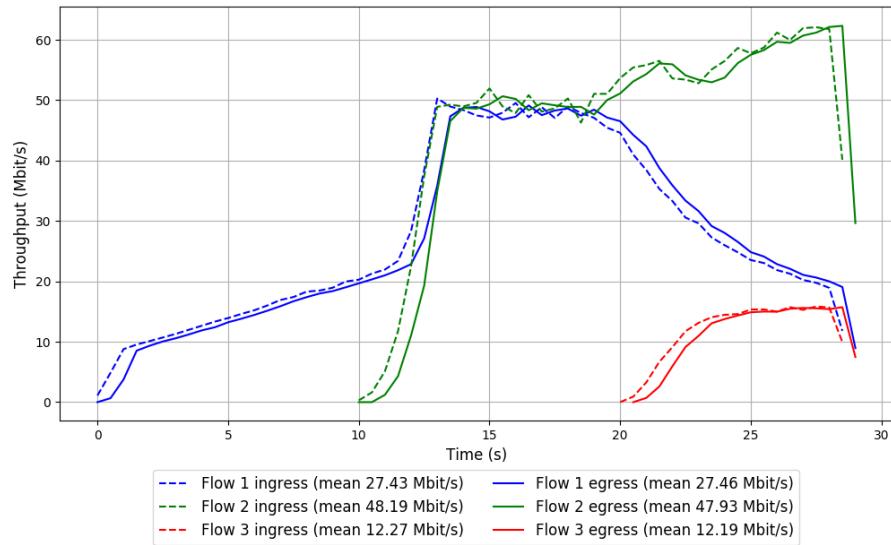


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-22 04:38:12
End at: 2019-01-22 04:38:42
Local clock offset: -6.429 ms
Remote clock offset: 1.353 ms

# Below is generated by plot.py at 2019-01-22 04:51:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.67 Mbit/s
95th percentile per-packet one-way delay: 110.741 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 27.46 Mbit/s
95th percentile per-packet one-way delay: 113.168 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 47.93 Mbit/s
95th percentile per-packet one-way delay: 110.425 ms
Loss rate: 1.48%
-- Flow 3:
Average throughput: 12.19 Mbit/s
95th percentile per-packet one-way delay: 95.172 ms
Loss rate: 2.69%
```

Run 5: Report of Indigo-MusesD — Data Link

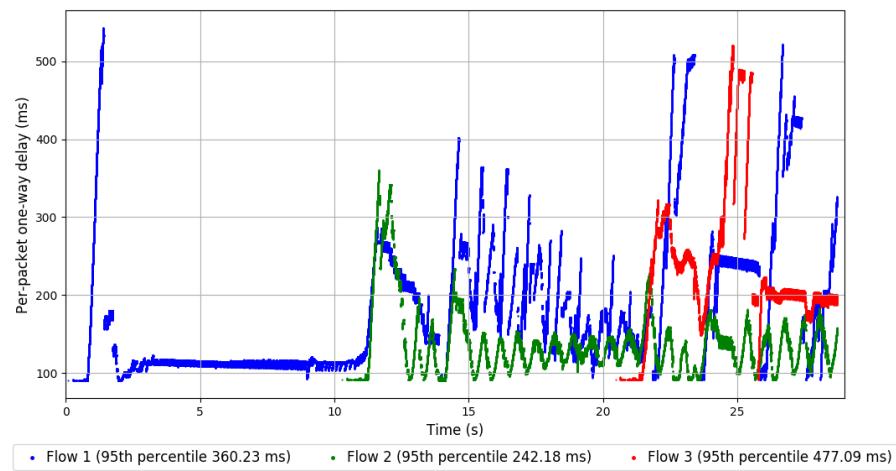
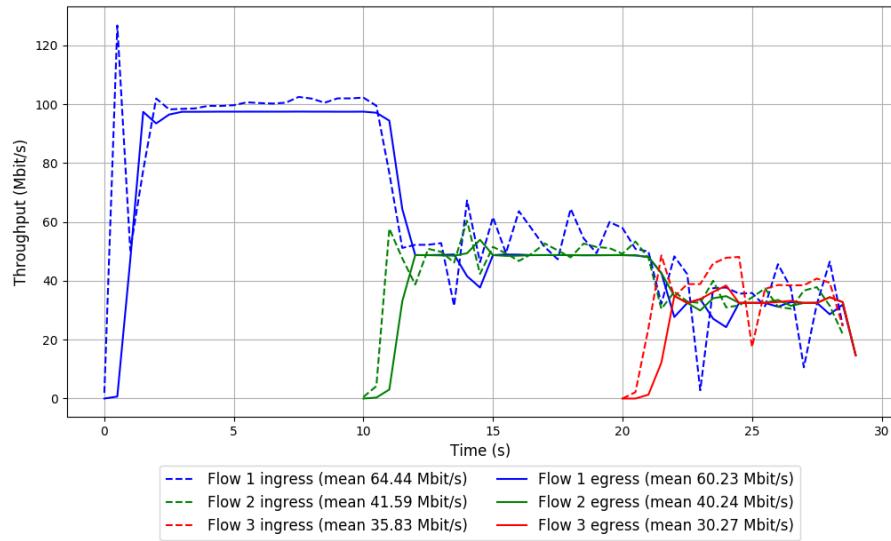


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-01-22 02:52:50
End at: 2019-01-22 02:53:20
Local clock offset: -2.542 ms
Remote clock offset: 4.105 ms

# Below is generated by plot.py at 2019-01-22 04:51:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.87 Mbit/s
95th percentile per-packet one-way delay: 333.990 ms
Loss rate: 7.35%
-- Flow 1:
Average throughput: 60.23 Mbit/s
95th percentile per-packet one-way delay: 360.231 ms
Loss rate: 7.09%
-- Flow 2:
Average throughput: 40.24 Mbit/s
95th percentile per-packet one-way delay: 242.181 ms
Loss rate: 4.09%
-- Flow 3:
Average throughput: 30.27 Mbit/s
95th percentile per-packet one-way delay: 477.087 ms
Loss rate: 17.27%
```

Run 1: Report of Indigo-MusesT — Data Link

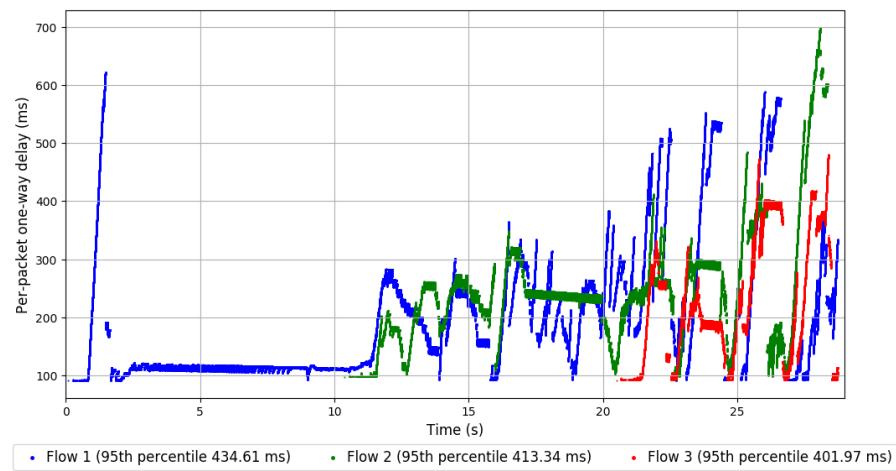
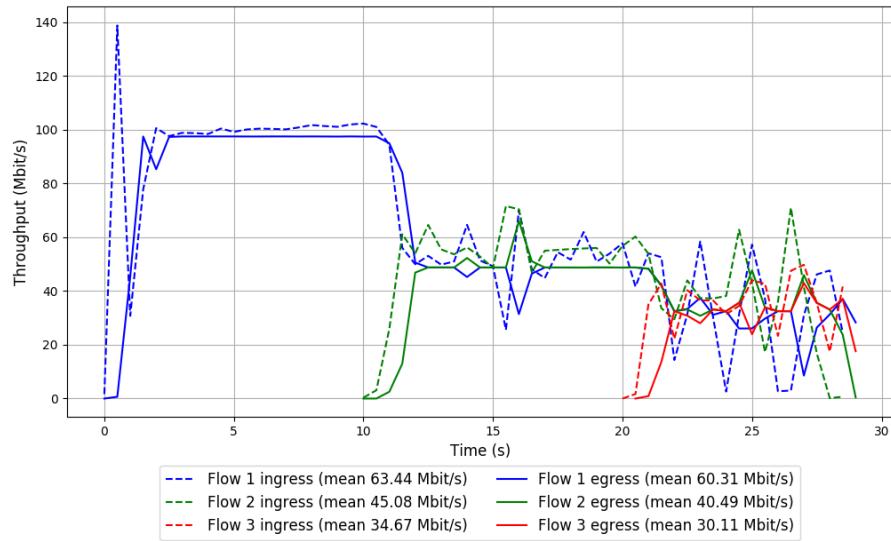


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-22 03:19:50
End at: 2019-01-22 03:20:20
Local clock offset: -4.515 ms
Remote clock offset: 2.895 ms

# Below is generated by plot.py at 2019-01-22 04:51:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.92 Mbit/s
95th percentile per-packet one-way delay: 416.105 ms
Loss rate: 8.00%
-- Flow 1:
Average throughput: 60.31 Mbit/s
95th percentile per-packet one-way delay: 434.609 ms
Loss rate: 5.51%
-- Flow 2:
Average throughput: 40.49 Mbit/s
95th percentile per-packet one-way delay: 413.343 ms
Loss rate: 11.06%
-- Flow 3:
Average throughput: 30.11 Mbit/s
95th percentile per-packet one-way delay: 401.966 ms
Loss rate: 14.84%
```

Run 2: Report of Indigo-MusesT — Data Link

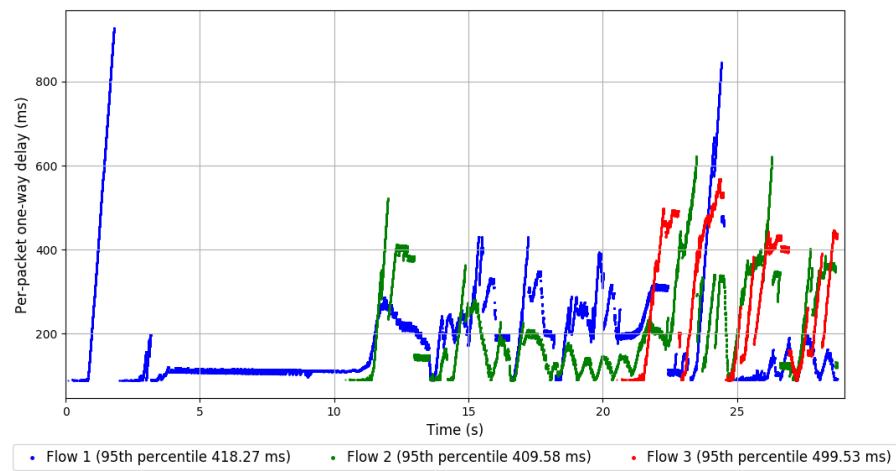
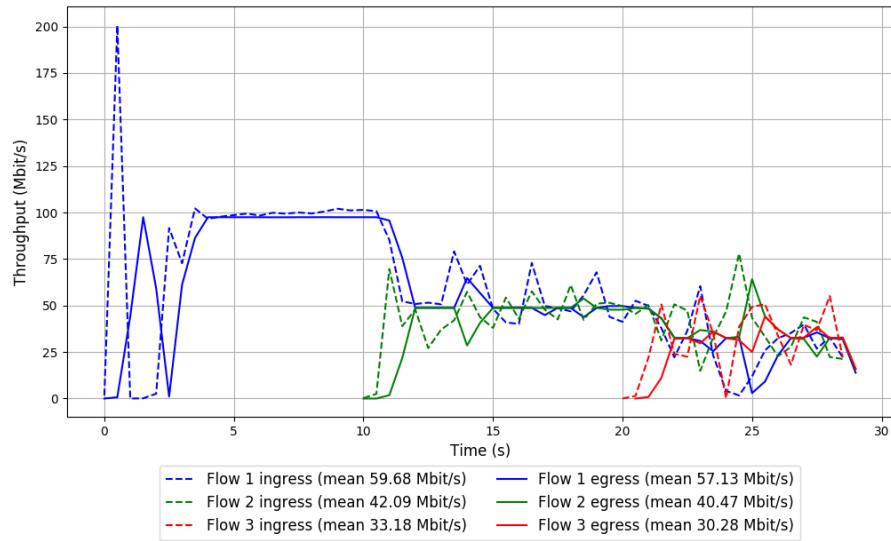


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-22 03:46:50
End at: 2019-01-22 03:47:20
Local clock offset: -8.094 ms
Remote clock offset: 4.826 ms

# Below is generated by plot.py at 2019-01-22 04:52:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.71 Mbit/s
95th percentile per-packet one-way delay: 459.880 ms
Loss rate: 5.37%
-- Flow 1:
Average throughput: 57.13 Mbit/s
95th percentile per-packet one-way delay: 418.273 ms
Loss rate: 4.84%
-- Flow 2:
Average throughput: 40.47 Mbit/s
95th percentile per-packet one-way delay: 409.578 ms
Loss rate: 4.73%
-- Flow 3:
Average throughput: 30.28 Mbit/s
95th percentile per-packet one-way delay: 499.531 ms
Loss rate: 10.44%
```

Run 3: Report of Indigo-MusesT — Data Link

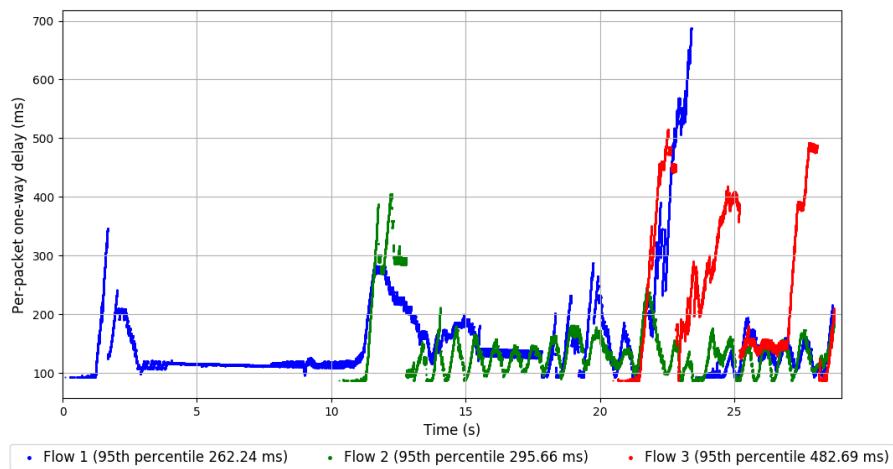
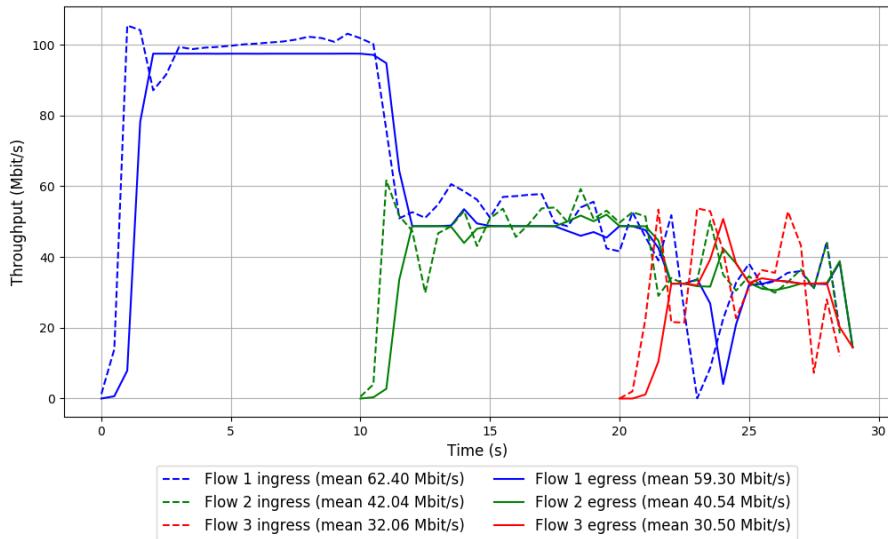


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-22 04:13:49
End at: 2019-01-22 04:14:19
Local clock offset: -6.504 ms
Remote clock offset: 6.72 ms

# Below is generated by plot.py at 2019-01-22 04:52:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.19 Mbit/s
95th percentile per-packet one-way delay: 326.456 ms
Loss rate: 5.34%
-- Flow 1:
Average throughput: 59.30 Mbit/s
95th percentile per-packet one-way delay: 262.236 ms
Loss rate: 5.52%
-- Flow 2:
Average throughput: 40.54 Mbit/s
95th percentile per-packet one-way delay: 295.663 ms
Loss rate: 4.39%
-- Flow 3:
Average throughput: 30.50 Mbit/s
95th percentile per-packet one-way delay: 482.685 ms
Loss rate: 6.86%
```

Run 4: Report of Indigo-MusesT — Data Link

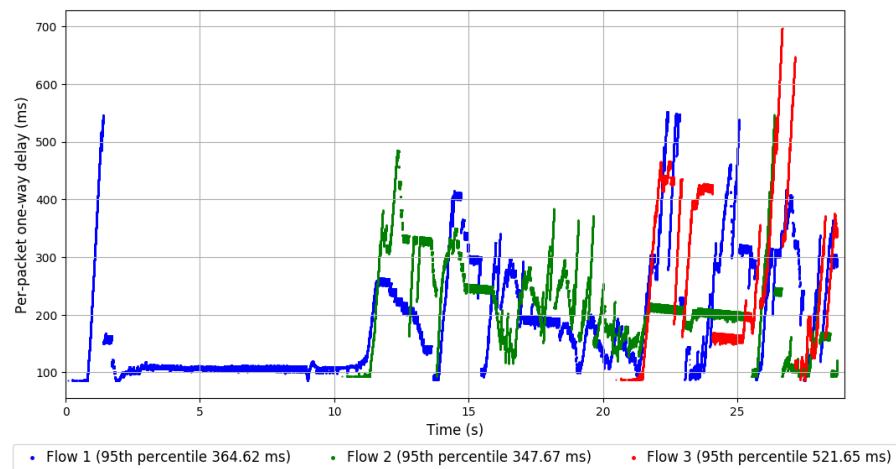
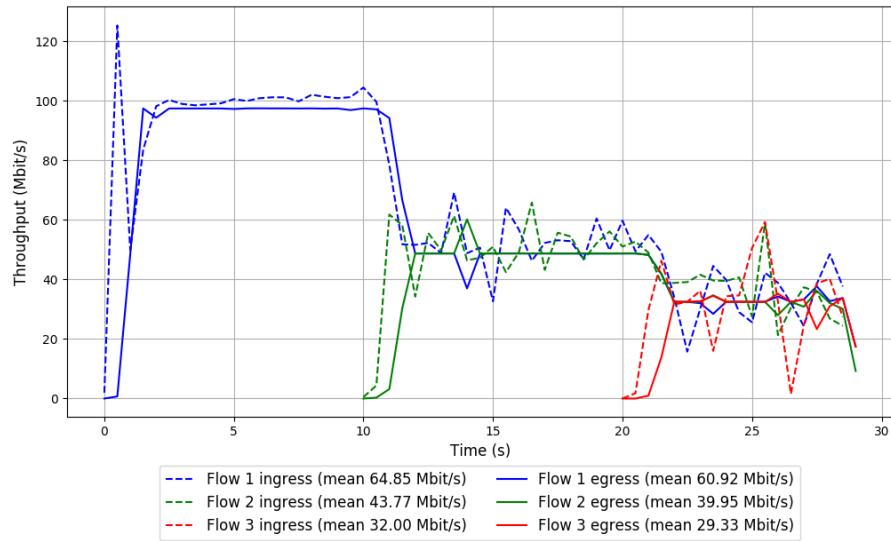


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-22 04:40:49
End at: 2019-01-22 04:41:19
Local clock offset: -7.164 ms
Remote clock offset: 7.421 ms

# Below is generated by plot.py at 2019-01-22 04:52:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.08 Mbit/s
95th percentile per-packet one-way delay: 407.520 ms
Loss rate: 7.65%
-- Flow 1:
Average throughput: 60.92 Mbit/s
95th percentile per-packet one-way delay: 364.623 ms
Loss rate: 6.43%
-- Flow 2:
Average throughput: 39.95 Mbit/s
95th percentile per-packet one-way delay: 347.667 ms
Loss rate: 9.61%
-- Flow 3:
Average throughput: 29.33 Mbit/s
95th percentile per-packet one-way delay: 521.646 ms
Loss rate: 10.17%
```

Run 5: Report of Indigo-MusesT — Data Link

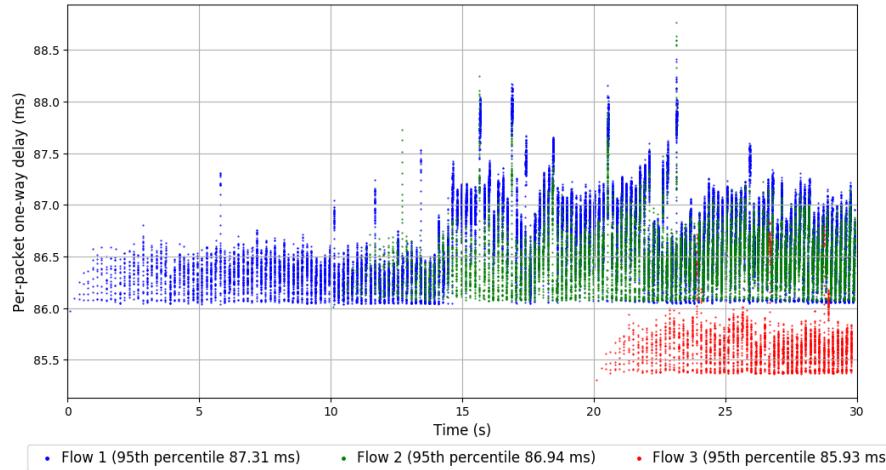
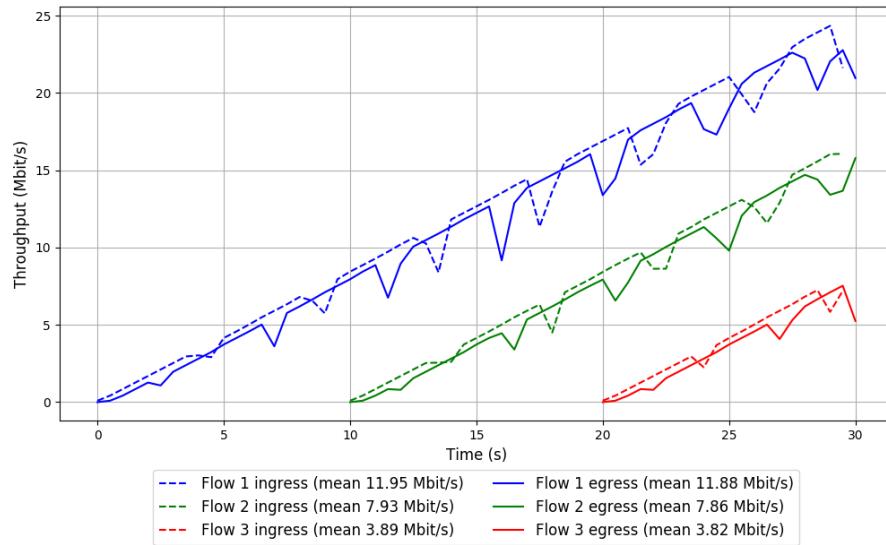


Run 1: Statistics of LEDBAT

```
Start at: 2019-01-22 02:34:46
End at: 2019-01-22 02:35:16
Local clock offset: -2.466 ms
Remote clock offset: 9.338 ms

# Below is generated by plot.py at 2019-01-22 04:52:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.34 Mbit/s
95th percentile per-packet one-way delay: 87.202 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 11.88 Mbit/s
95th percentile per-packet one-way delay: 87.306 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 7.86 Mbit/s
95th percentile per-packet one-way delay: 86.935 ms
Loss rate: 1.75%
-- Flow 3:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 85.929 ms
Loss rate: 3.56%
```

Run 1: Report of LEDBAT — Data Link

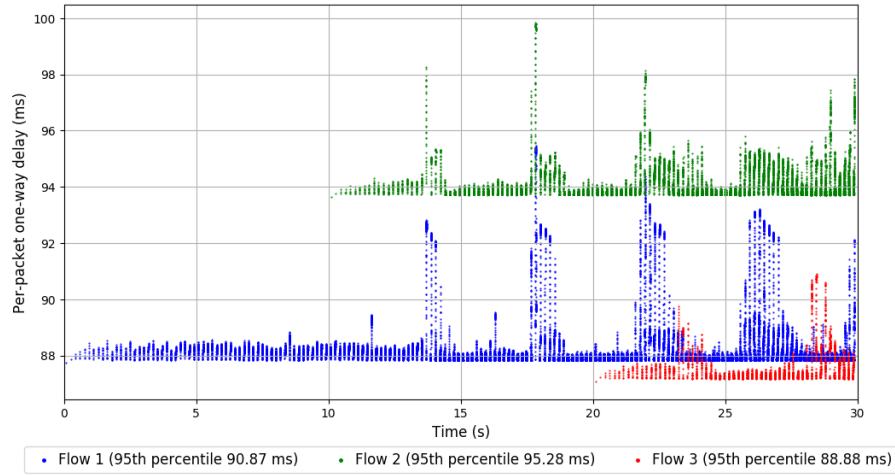
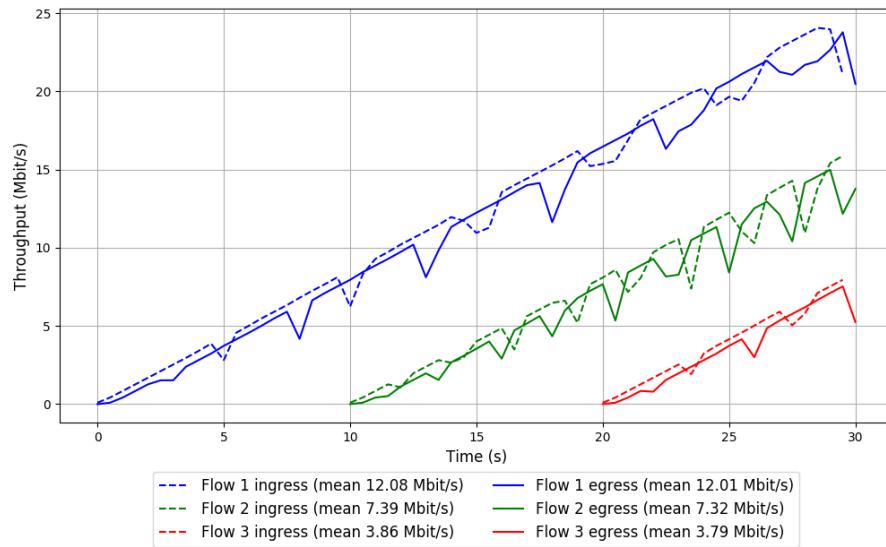


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-22 03:01:46
End at: 2019-01-22 03:02:16
Local clock offset: -1.851 ms
Remote clock offset: 8.022 ms

# Below is generated by plot.py at 2019-01-22 04:52:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.11 Mbit/s
95th percentile per-packet one-way delay: 94.563 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 12.01 Mbit/s
95th percentile per-packet one-way delay: 90.870 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 7.32 Mbit/s
95th percentile per-packet one-way delay: 95.278 ms
Loss rate: 1.81%
-- Flow 3:
Average throughput: 3.79 Mbit/s
95th percentile per-packet one-way delay: 88.884 ms
Loss rate: 3.53%
```

Run 2: Report of LEDBAT — Data Link

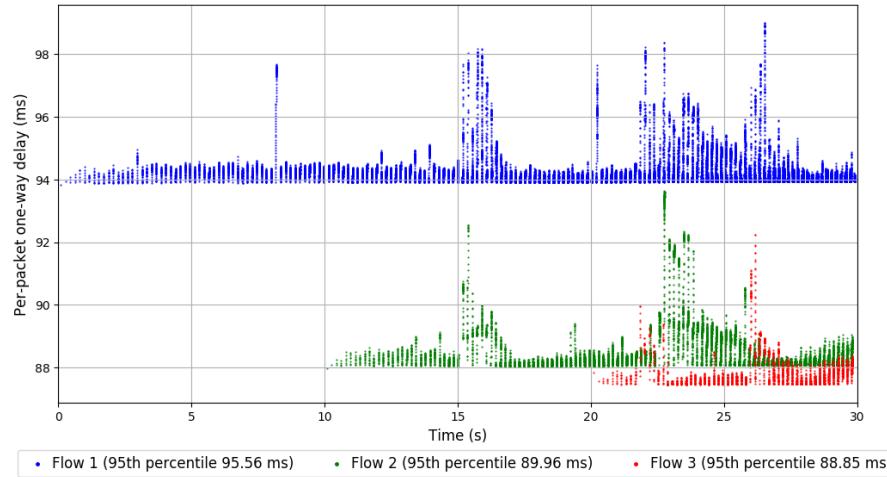
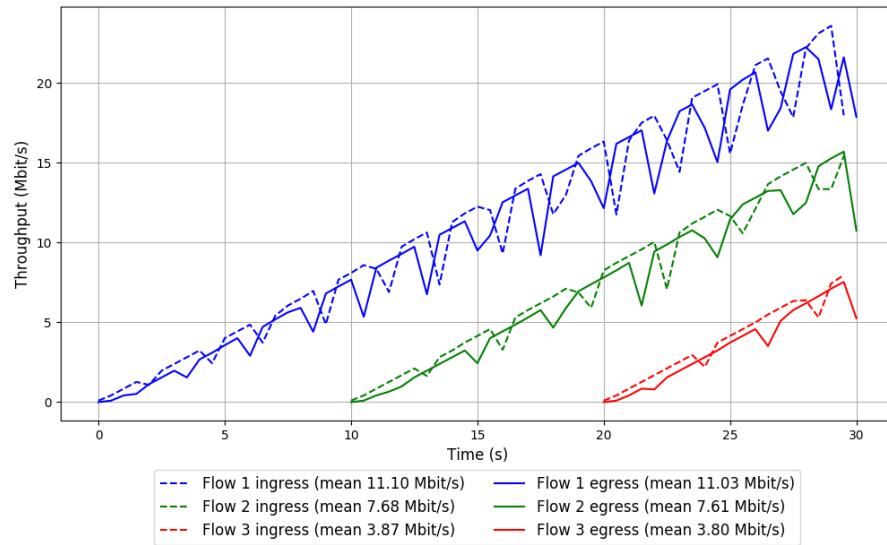


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-22 03:28:46
End at: 2019-01-22 03:29:16
Local clock offset: -6.287 ms
Remote clock offset: 6.41 ms

# Below is generated by plot.py at 2019-01-22 04:52:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.30 Mbit/s
95th percentile per-packet one-way delay: 95.033 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 11.03 Mbit/s
95th percentile per-packet one-way delay: 95.565 ms
Loss rate: 1.20%
-- Flow 2:
Average throughput: 7.61 Mbit/s
95th percentile per-packet one-way delay: 89.957 ms
Loss rate: 1.78%
-- Flow 3:
Average throughput: 3.80 Mbit/s
95th percentile per-packet one-way delay: 88.854 ms
Loss rate: 3.53%
```

Run 3: Report of LEDBAT — Data Link

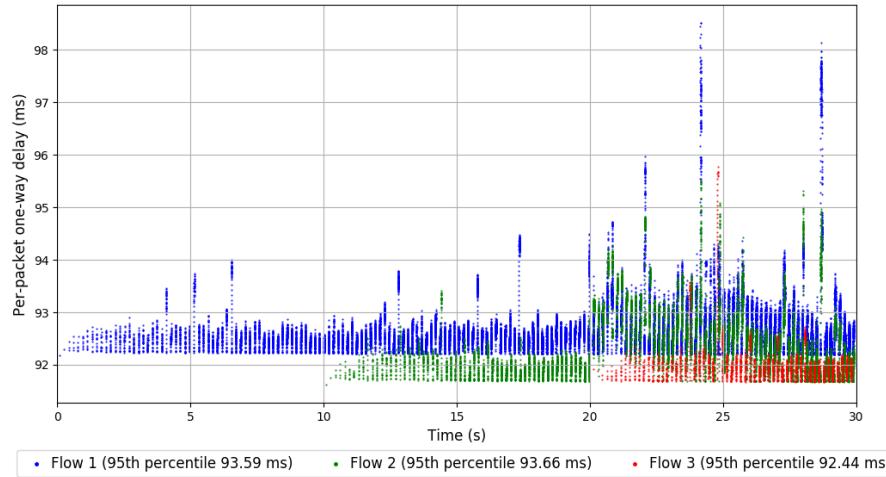
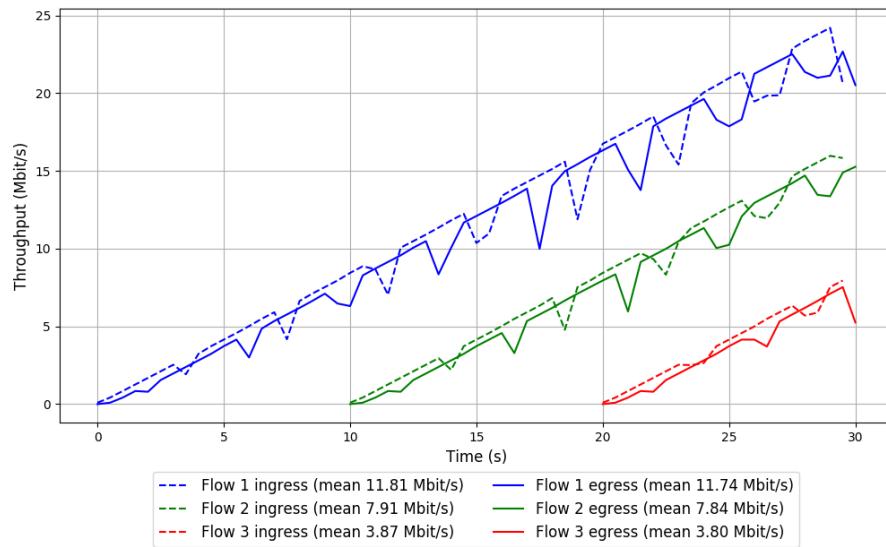


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-22 03:55:46
End at: 2019-01-22 03:56:16
Local clock offset: -7.561 ms
Remote clock offset: 0.828 ms

# Below is generated by plot.py at 2019-01-22 04:52:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.18 Mbit/s
95th percentile per-packet one-way delay: 93.585 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 11.74 Mbit/s
95th percentile per-packet one-way delay: 93.595 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 7.84 Mbit/s
95th percentile per-packet one-way delay: 93.663 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 3.80 Mbit/s
95th percentile per-packet one-way delay: 92.438 ms
Loss rate: 3.53%
```

Run 4: Report of LEDBAT — Data Link

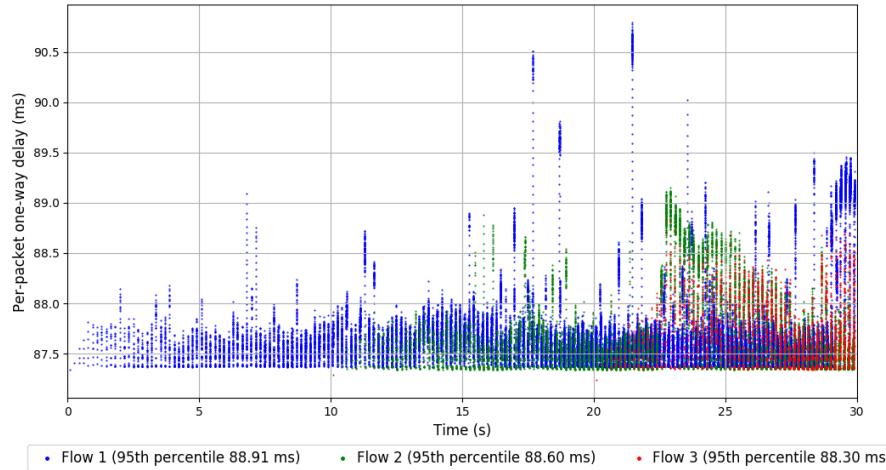
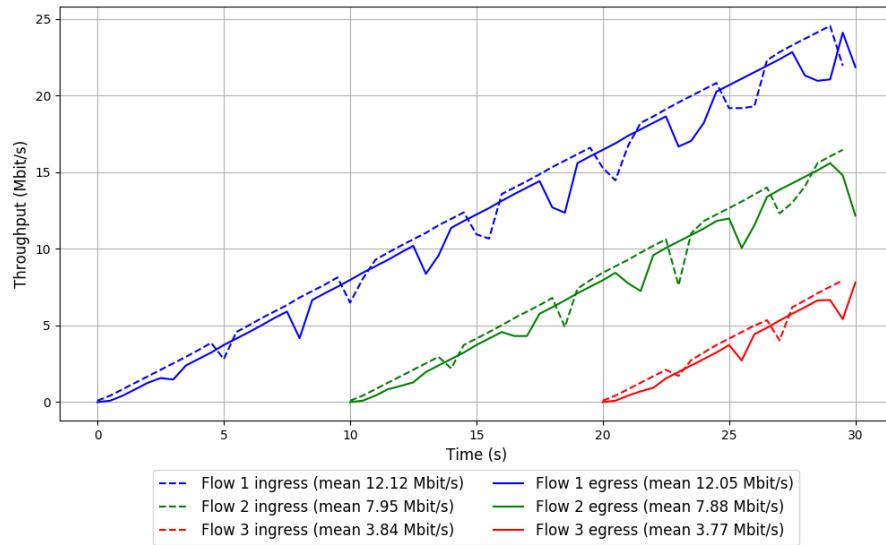


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-22 04:22:46
End at: 2019-01-22 04:23:16
Local clock offset: -7.078 ms
Remote clock offset: 5.778 ms

# Below is generated by plot.py at 2019-01-22 04:52:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.51 Mbit/s
95th percentile per-packet one-way delay: 88.730 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 12.05 Mbit/s
95th percentile per-packet one-way delay: 88.913 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 7.88 Mbit/s
95th percentile per-packet one-way delay: 88.604 ms
Loss rate: 1.75%
-- Flow 3:
Average throughput: 3.77 Mbit/s
95th percentile per-packet one-way delay: 88.302 ms
Loss rate: 3.53%
```

Run 5: Report of LEDBAT — Data Link

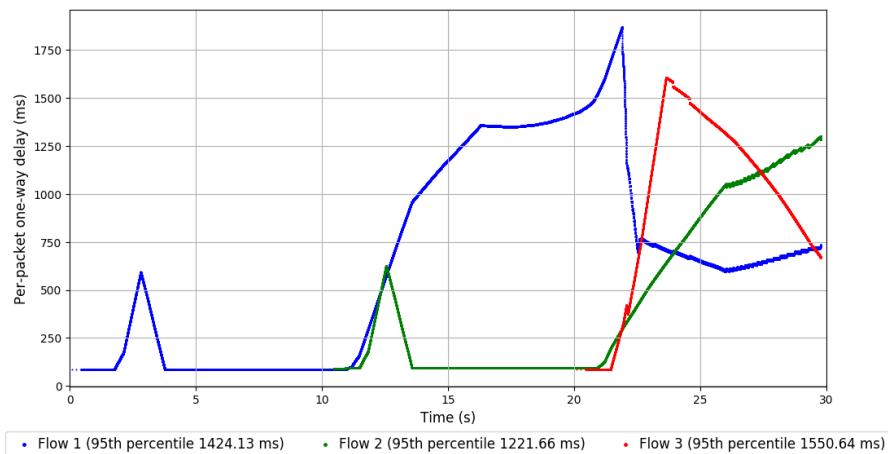
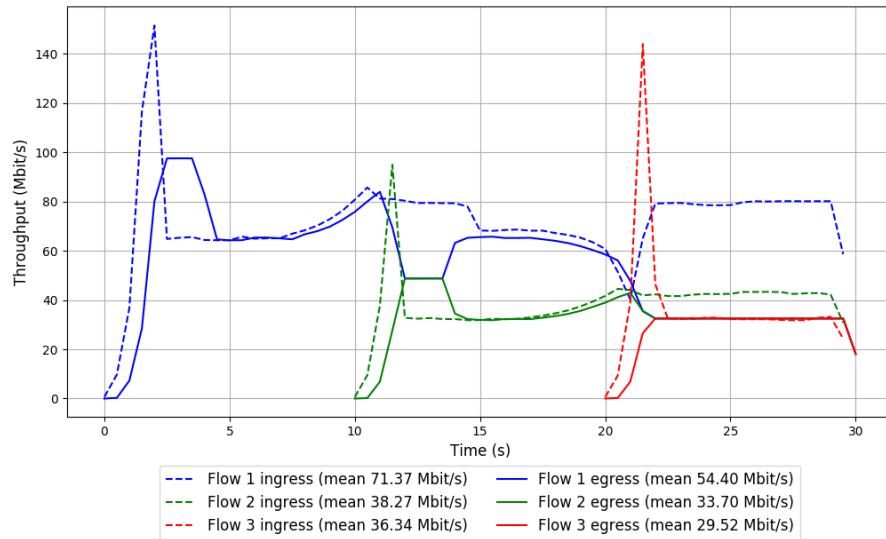


Run 1: Statistics of PCC-Allegro

```
Start at: 2019-01-22 02:46:24
End at: 2019-01-22 02:46:54
Local clock offset: -2.291 ms
Remote clock offset: 8.991 ms

# Below is generated by plot.py at 2019-01-22 04:52:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.37 Mbit/s
95th percentile per-packet one-way delay: 1426.789 ms
Loss rate: 21.08%
-- Flow 1:
Average throughput: 54.40 Mbit/s
95th percentile per-packet one-way delay: 1424.129 ms
Loss rate: 24.21%
-- Flow 2:
Average throughput: 33.70 Mbit/s
95th percentile per-packet one-way delay: 1221.660 ms
Loss rate: 12.73%
-- Flow 3:
Average throughput: 29.52 Mbit/s
95th percentile per-packet one-way delay: 1550.643 ms
Loss rate: 20.19%
```

Run 1: Report of PCC-Allegro — Data Link

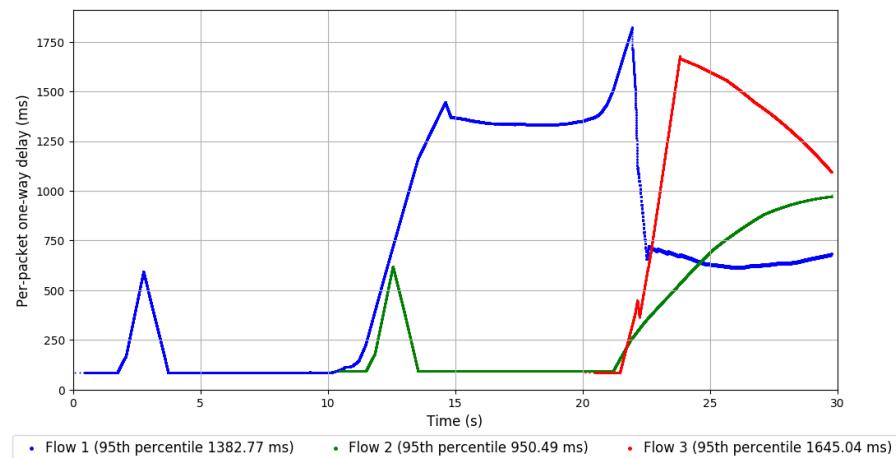
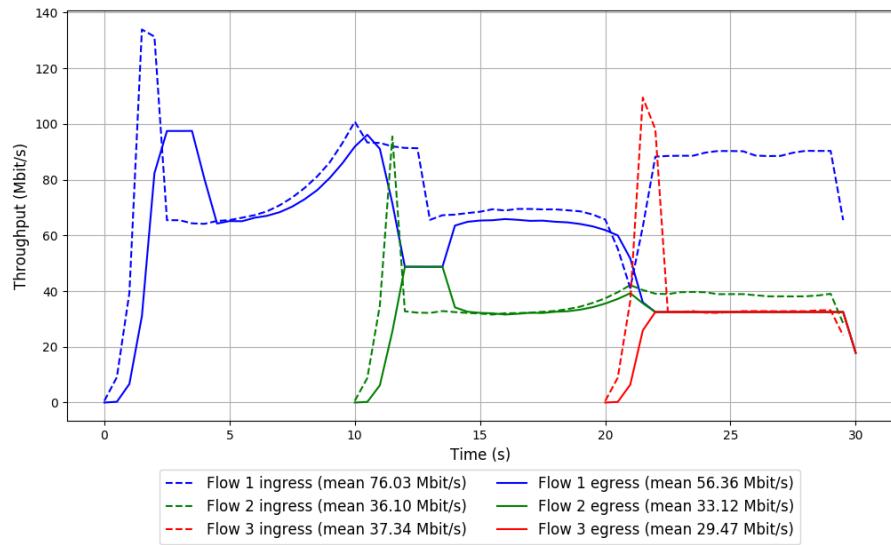


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-22 03:13:24
End at: 2019-01-22 03:13:54
Local clock offset: -2.567 ms
Remote clock offset: 8.618 ms

# Below is generated by plot.py at 2019-01-22 04:52:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.92 Mbit/s
95th percentile per-packet one-way delay: 1466.357 ms
Loss rate: 22.19%
-- Flow 1:
Average throughput: 56.36 Mbit/s
95th percentile per-packet one-way delay: 1382.768 ms
Loss rate: 26.30%
-- Flow 2:
Average throughput: 33.12 Mbit/s
95th percentile per-packet one-way delay: 950.486 ms
Loss rate: 9.05%
-- Flow 3:
Average throughput: 29.47 Mbit/s
95th percentile per-packet one-way delay: 1645.042 ms
Loss rate: 22.47%
```

Run 2: Report of PCC-Allegro — Data Link

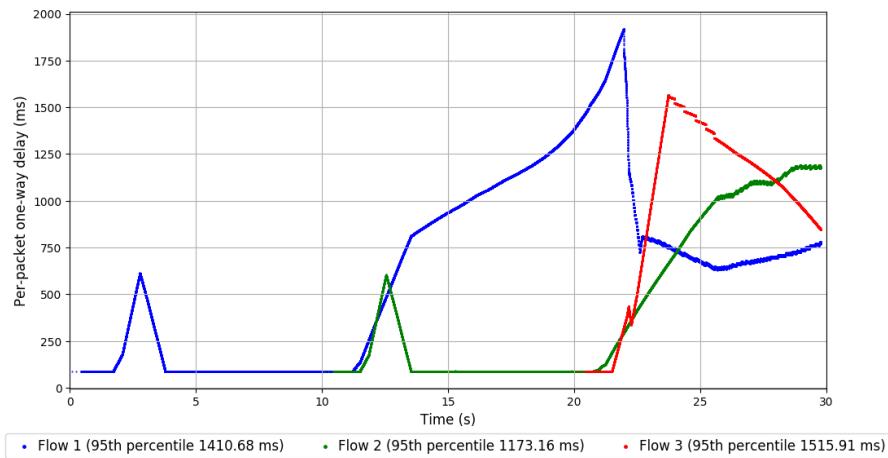
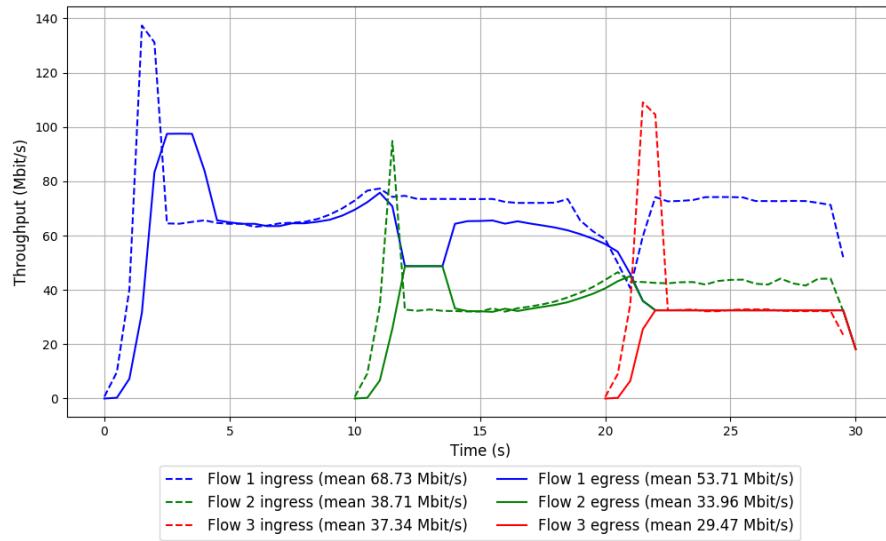


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-22 03:40:25
End at: 2019-01-22 03:40:55
Local clock offset: -7.83 ms
Remote clock offset: 5.807 ms

# Below is generated by plot.py at 2019-01-22 04:52:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.84 Mbit/s
95th percentile per-packet one-way delay: 1415.894 ms
Loss rate: 20.09%
-- Flow 1:
Average throughput: 53.71 Mbit/s
95th percentile per-packet one-way delay: 1410.679 ms
Loss rate: 22.31%
-- Flow 2:
Average throughput: 33.96 Mbit/s
95th percentile per-packet one-way delay: 1173.162 ms
Loss rate: 13.02%
-- Flow 3:
Average throughput: 29.47 Mbit/s
95th percentile per-packet one-way delay: 1515.912 ms
Loss rate: 22.47%
```

Run 3: Report of PCC-Allegro — Data Link

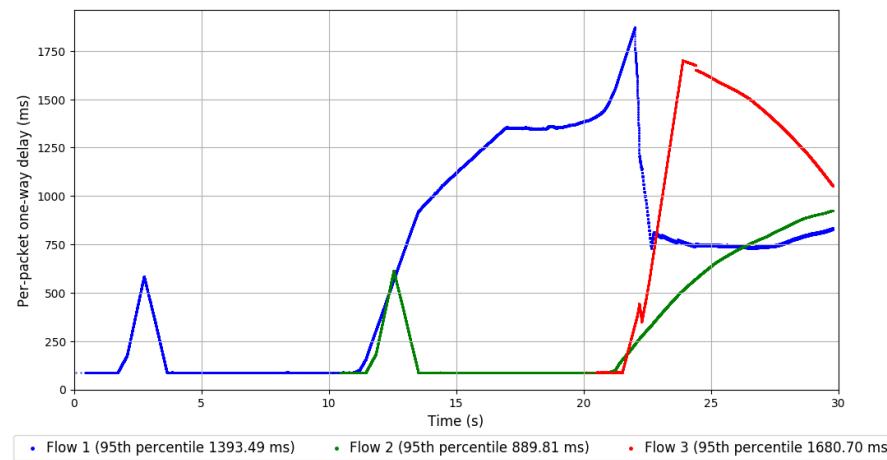
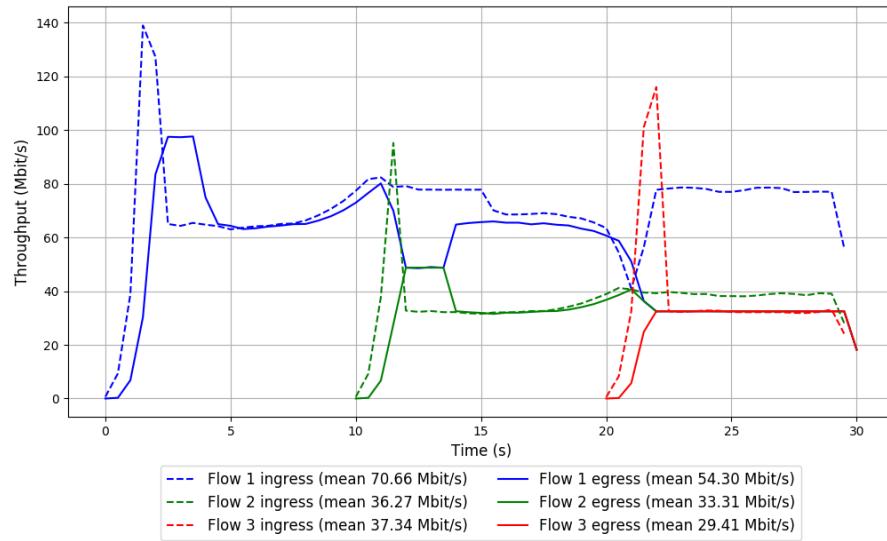


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-22 04:07:24
End at: 2019-01-22 04:07:54
Local clock offset: -6.415 ms
Remote clock offset: 4.716 ms

# Below is generated by plot.py at 2019-01-22 04:53:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.97 Mbit/s
95th percentile per-packet one-way delay: 1503.103 ms
Loss rate: 20.20%
-- Flow 1:
Average throughput: 54.30 Mbit/s
95th percentile per-packet one-way delay: 1393.493 ms
Loss rate: 23.61%
-- Flow 2:
Average throughput: 33.31 Mbit/s
95th percentile per-packet one-way delay: 889.806 ms
Loss rate: 8.95%
-- Flow 3:
Average throughput: 29.41 Mbit/s
95th percentile per-packet one-way delay: 1680.703 ms
Loss rate: 22.65%
```

Run 4: Report of PCC-Allegro — Data Link

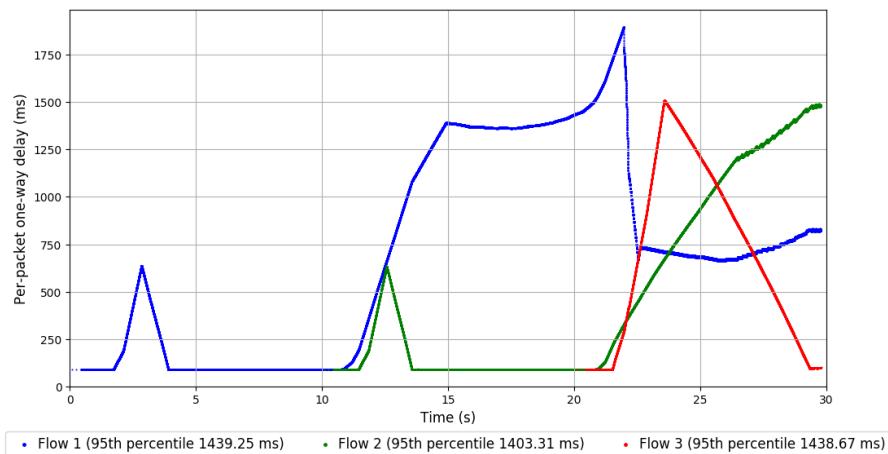
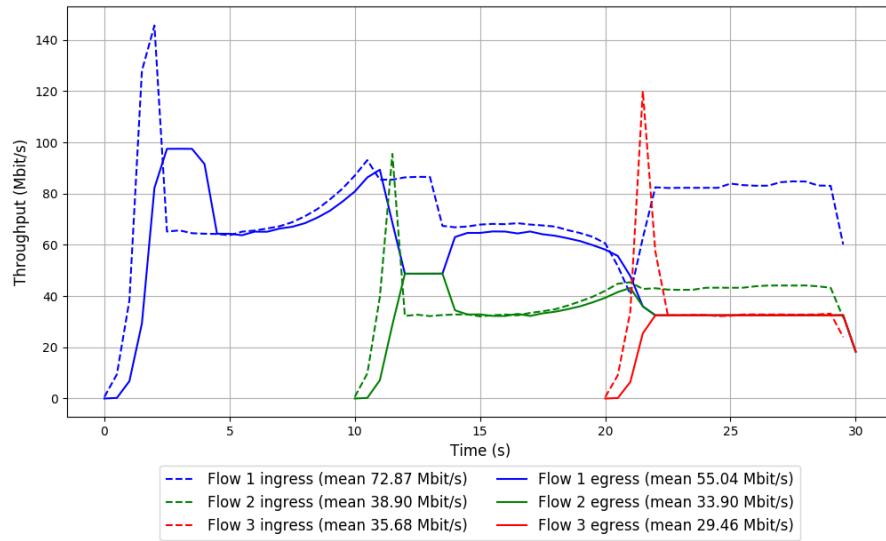


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-22 04:34:25
End at: 2019-01-22 04:34:55
Local clock offset: -6.324 ms
Remote clock offset: 1.1 ms

# Below is generated by plot.py at 2019-01-22 04:53:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.11 Mbit/s
95th percentile per-packet one-way delay: 1433.021 ms
Loss rate: 21.61%
-- Flow 1:
Average throughput: 55.04 Mbit/s
95th percentile per-packet one-way delay: 1439.250 ms
Loss rate: 24.90%
-- Flow 2:
Average throughput: 33.90 Mbit/s
95th percentile per-packet one-way delay: 1403.311 ms
Loss rate: 13.58%
-- Flow 3:
Average throughput: 29.46 Mbit/s
95th percentile per-packet one-way delay: 1438.668 ms
Loss rate: 18.83%
```

Run 5: Report of PCC-Allegro — Data Link

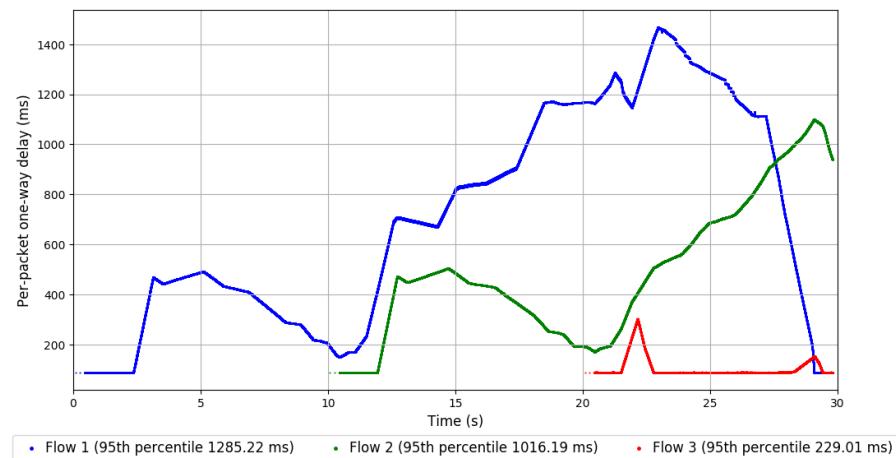
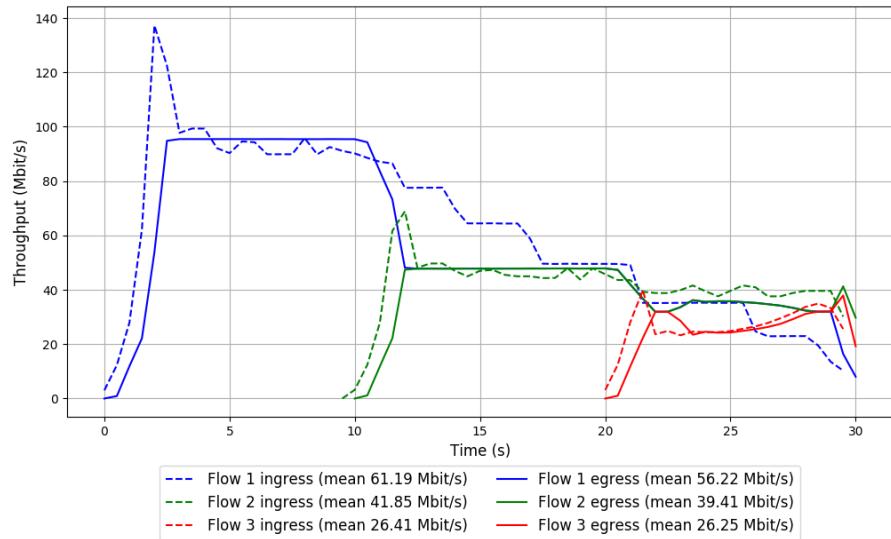


Run 1: Statistics of PCC-Expr

```
Start at: 2019-01-22 02:33:25
End at: 2019-01-22 02:33:55
Local clock offset: -1.699 ms
Remote clock offset: 8.145 ms

# Below is generated by plot.py at 2019-01-22 04:54:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.95 Mbit/s
95th percentile per-packet one-way delay: 1218.169 ms
Loss rate: 7.53%
-- Flow 1:
Average throughput: 56.22 Mbit/s
95th percentile per-packet one-way delay: 1285.219 ms
Loss rate: 8.66%
-- Flow 2:
Average throughput: 39.41 Mbit/s
95th percentile per-packet one-way delay: 1016.189 ms
Loss rate: 6.67%
-- Flow 3:
Average throughput: 26.25 Mbit/s
95th percentile per-packet one-way delay: 229.007 ms
Loss rate: 2.36%
```

Run 1: Report of PCC-Expr — Data Link

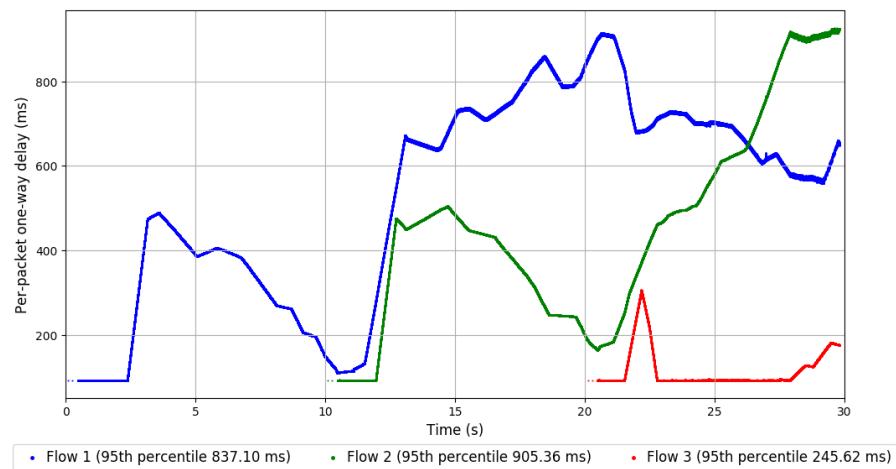
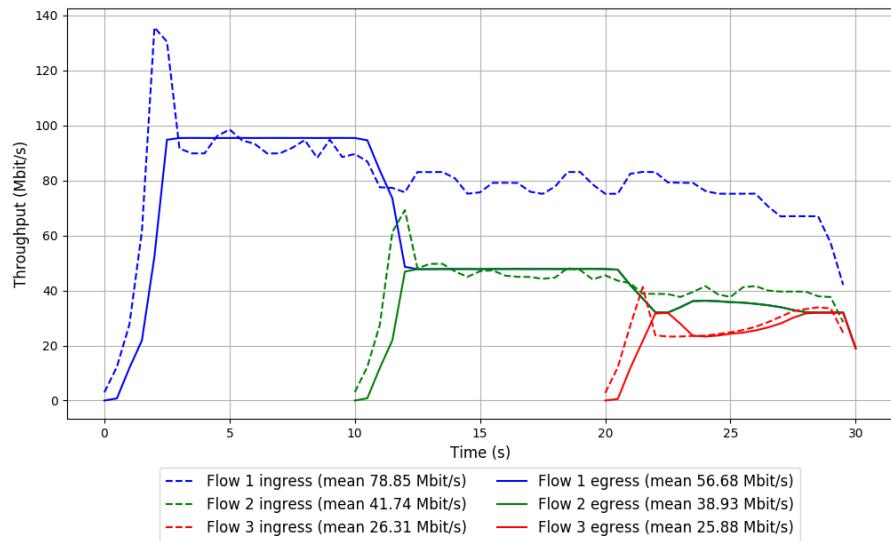


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-22 03:00:24
End at: 2019-01-22 03:00:54
Local clock offset: -2.613 ms
Remote clock offset: 2.926 ms

# Below is generated by plot.py at 2019-01-22 04:54:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.94 Mbit/s
95th percentile per-packet one-way delay: 847.687 ms
Loss rate: 21.59%
-- Flow 1:
Average throughput: 56.68 Mbit/s
95th percentile per-packet one-way delay: 837.100 ms
Loss rate: 28.53%
-- Flow 2:
Average throughput: 38.93 Mbit/s
95th percentile per-packet one-way delay: 905.355 ms
Loss rate: 7.56%
-- Flow 3:
Average throughput: 25.88 Mbit/s
95th percentile per-packet one-way delay: 245.617 ms
Loss rate: 3.39%
```

Run 2: Report of PCC-Expr — Data Link

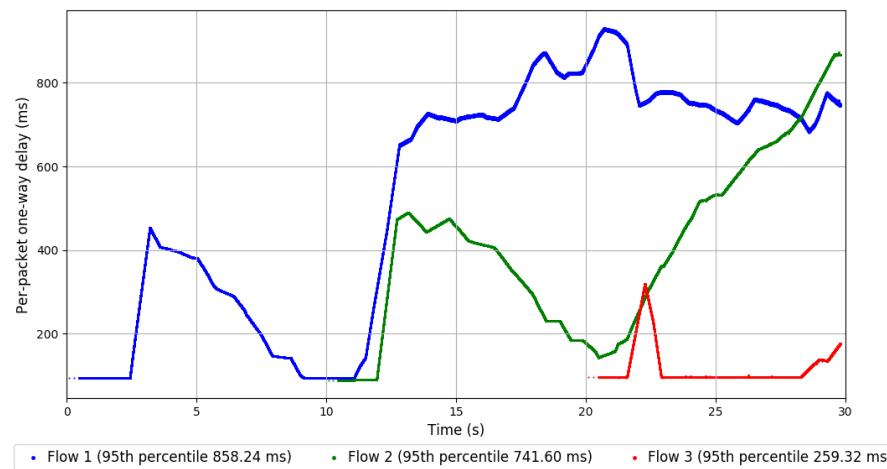
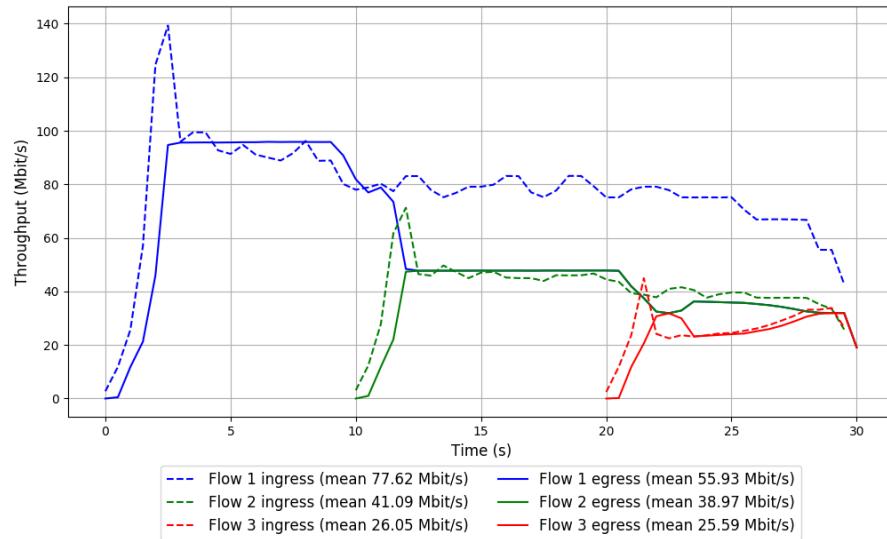


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-22 03:27:25
End at: 2019-01-22 03:27:55
Local clock offset: -6.014 ms
Remote clock offset: 6.431 ms

# Below is generated by plot.py at 2019-01-22 04:54:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.14 Mbit/s
95th percentile per-packet one-way delay: 833.666 ms
Loss rate: 21.10%
-- Flow 1:
Average throughput: 55.93 Mbit/s
95th percentile per-packet one-way delay: 858.240 ms
Loss rate: 28.37%
-- Flow 2:
Average throughput: 38.97 Mbit/s
95th percentile per-packet one-way delay: 741.599 ms
Loss rate: 6.00%
-- Flow 3:
Average throughput: 25.59 Mbit/s
95th percentile per-packet one-way delay: 259.323 ms
Loss rate: 3.57%
```

Run 3: Report of PCC-Expr — Data Link

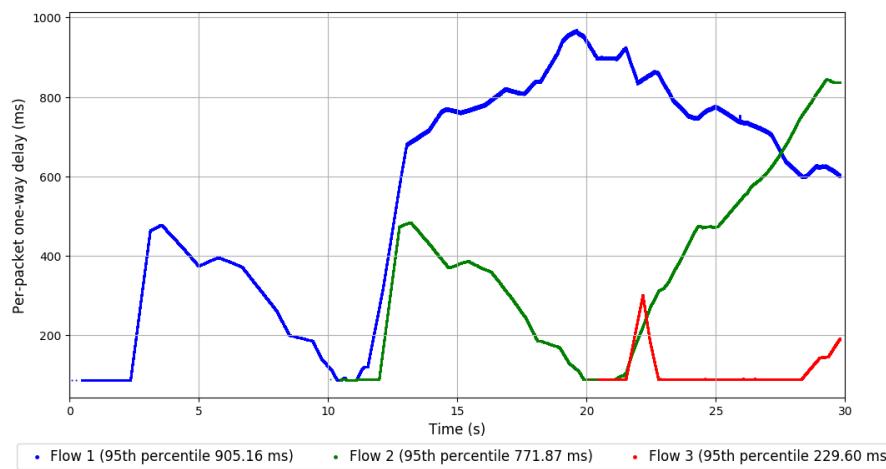
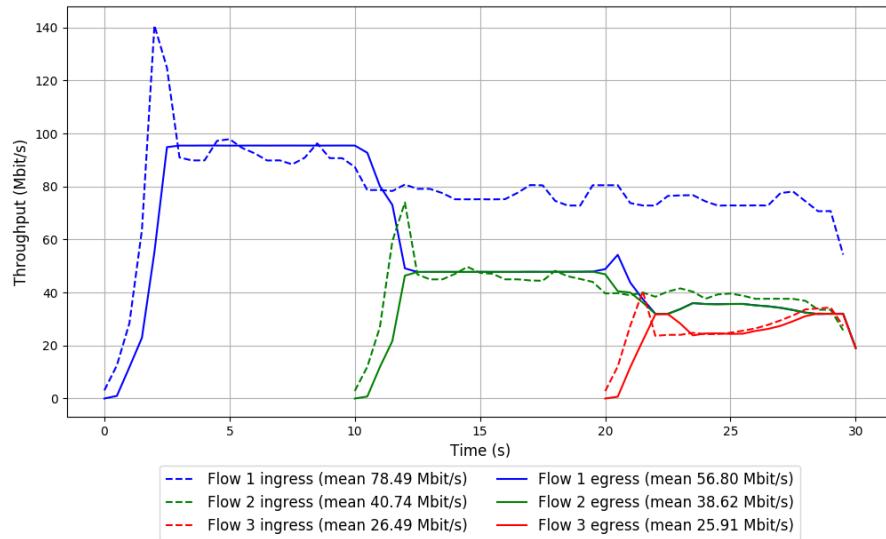


Run 4: Statistics of PCC-Expr

```
Start at: 2019-01-22 03:54:24
End at: 2019-01-22 03:54:54
Local clock offset: -6.907 ms
Remote clock offset: 5.927 ms

# Below is generated by plot.py at 2019-01-22 04:54:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.87 Mbit/s
95th percentile per-packet one-way delay: 889.724 ms
Loss rate: 20.98%
-- Flow 1:
Average throughput: 56.80 Mbit/s
95th percentile per-packet one-way delay: 905.164 ms
Loss rate: 28.05%
-- Flow 2:
Average throughput: 38.62 Mbit/s
95th percentile per-packet one-way delay: 771.865 ms
Loss rate: 6.04%
-- Flow 3:
Average throughput: 25.91 Mbit/s
95th percentile per-packet one-way delay: 229.604 ms
Loss rate: 3.90%
```

Run 4: Report of PCC-Expr — Data Link

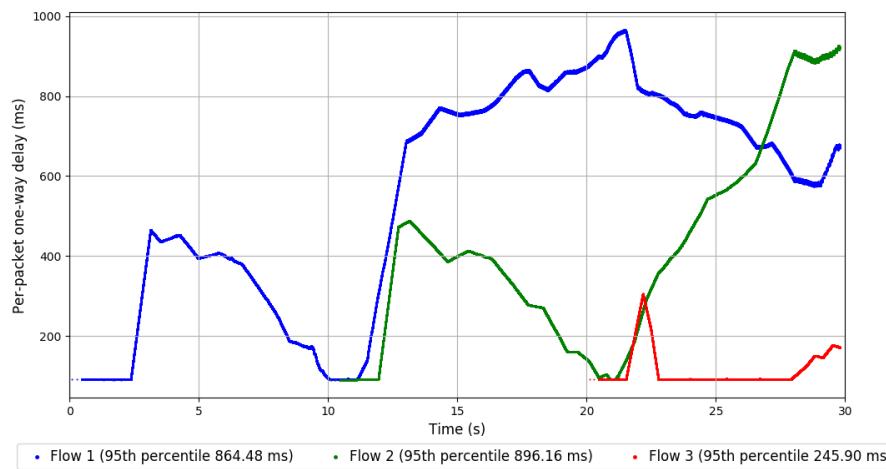
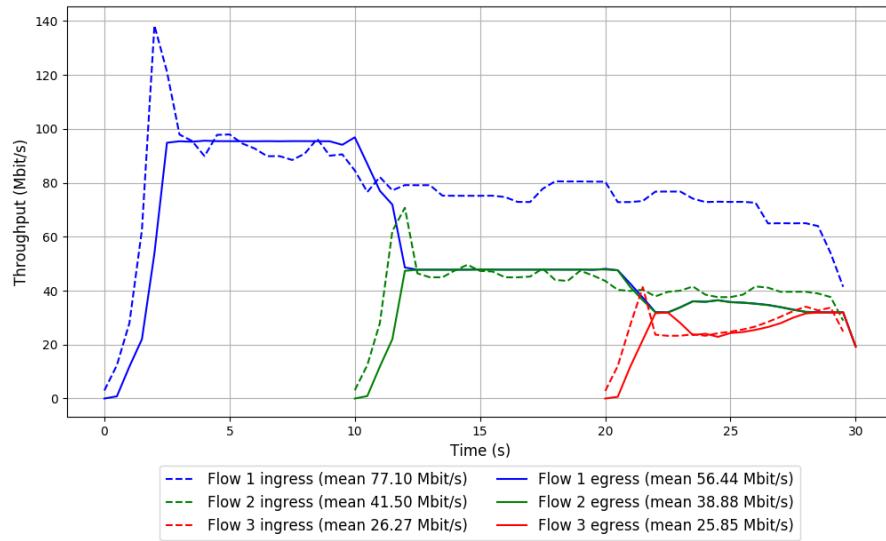


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-22 04:21:25
End at: 2019-01-22 04:21:55
Local clock offset: -7.097 ms
Remote clock offset: 1.917 ms

# Below is generated by plot.py at 2019-01-22 04:55:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.67 Mbit/s
95th percentile per-packet one-way delay: 870.385 ms
Loss rate: 20.50%
-- Flow 1:
Average throughput: 56.44 Mbit/s
95th percentile per-packet one-way delay: 864.475 ms
Loss rate: 27.23%
-- Flow 2:
Average throughput: 38.88 Mbit/s
95th percentile per-packet one-way delay: 896.164 ms
Loss rate: 7.12%
-- Flow 3:
Average throughput: 25.85 Mbit/s
95th percentile per-packet one-way delay: 245.900 ms
Loss rate: 3.31%
```

Run 5: Report of PCC-Expr — Data Link

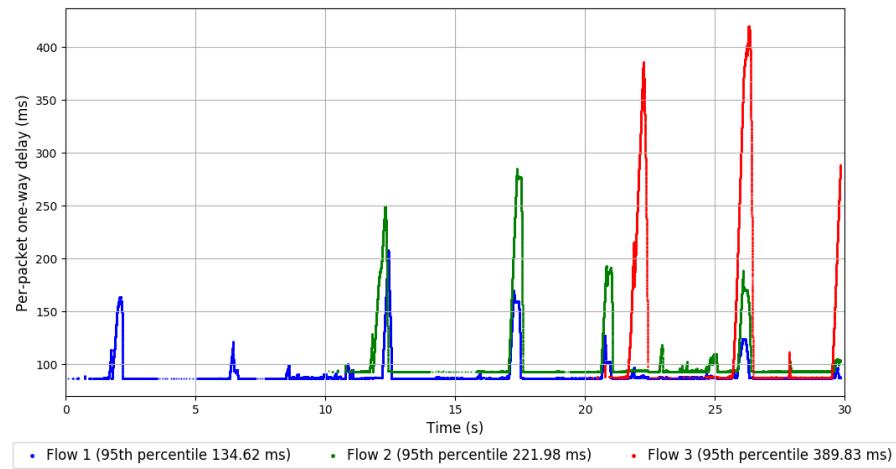
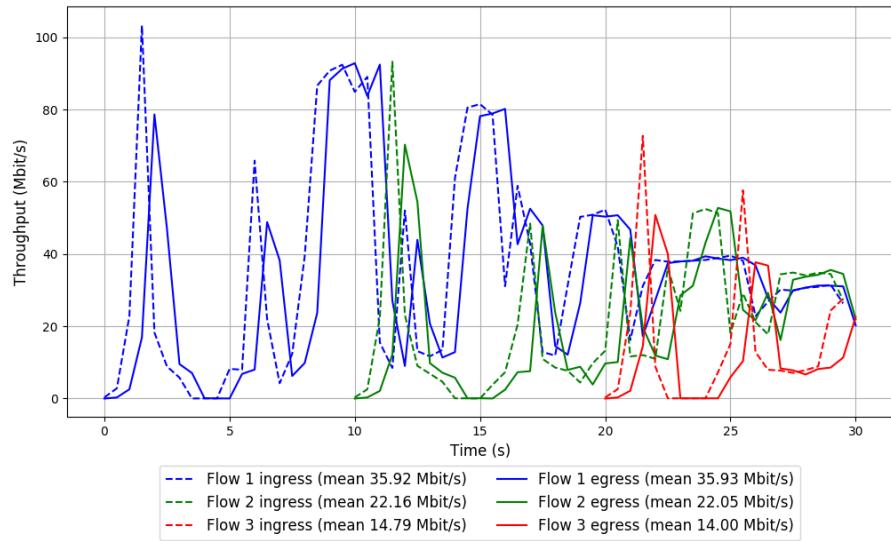


```
Run 1: Statistics of QUIC Cubic

Start at: 2019-01-22 02:38:39
End at: 2019-01-22 02:39:09
Local clock offset: -2.49 ms
Remote clock offset: 8.022 ms

# Below is generated by plot.py at 2019-01-22 04:55:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.14 Mbit/s
95th percentile per-packet one-way delay: 194.039 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 35.93 Mbit/s
95th percentile per-packet one-way delay: 134.621 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 22.05 Mbit/s
95th percentile per-packet one-way delay: 221.979 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 14.00 Mbit/s
95th percentile per-packet one-way delay: 389.832 ms
Loss rate: 7.01%
```

Run 1: Report of QUIC Cubic — Data Link

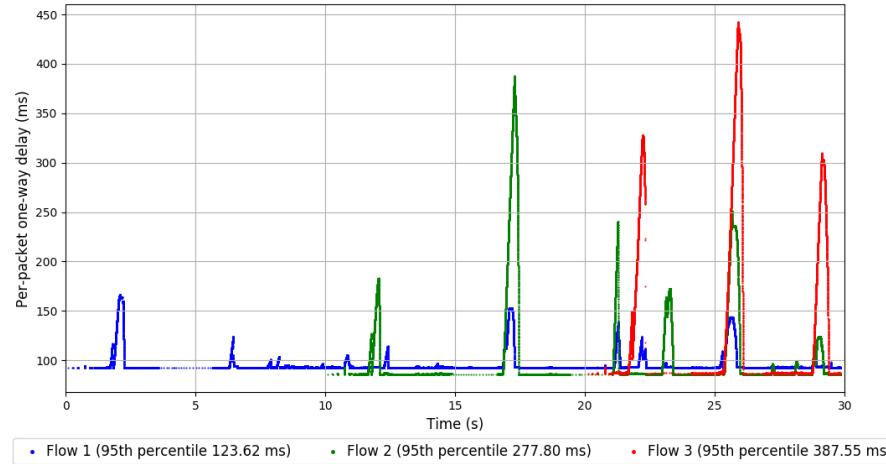
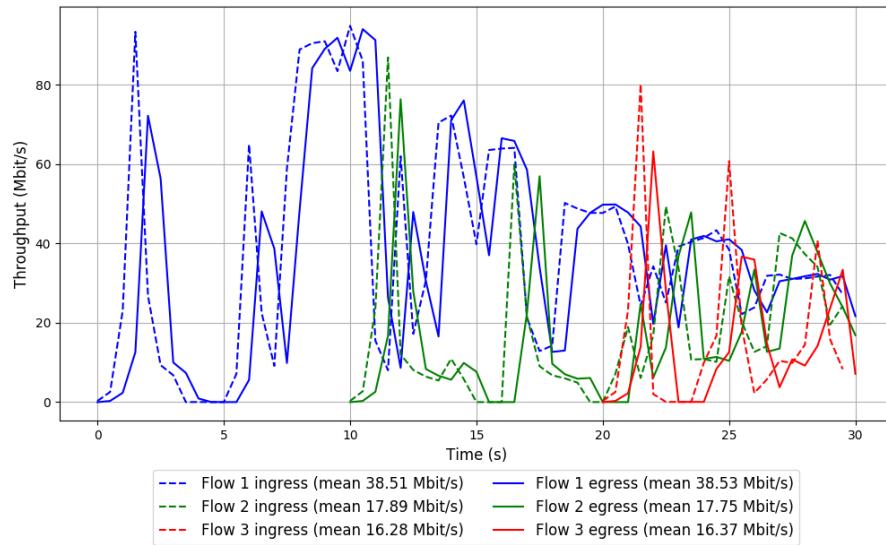


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-22 03:05:39
End at: 2019-01-22 03:06:09
Local clock offset: -1.838 ms
Remote clock offset: 9.153 ms

# Below is generated by plot.py at 2019-01-22 04:55:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.66 Mbit/s
95th percentile per-packet one-way delay: 210.091 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 38.53 Mbit/s
95th percentile per-packet one-way delay: 123.625 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 17.75 Mbit/s
95th percentile per-packet one-way delay: 277.796 ms
Loss rate: 1.62%
-- Flow 3:
Average throughput: 16.37 Mbit/s
95th percentile per-packet one-way delay: 387.546 ms
Loss rate: 1.21%
```

Run 2: Report of QUIC Cubic — Data Link

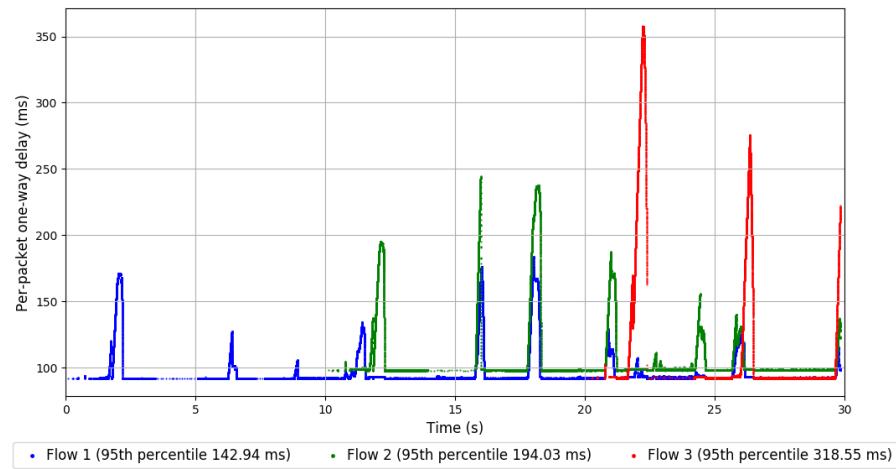
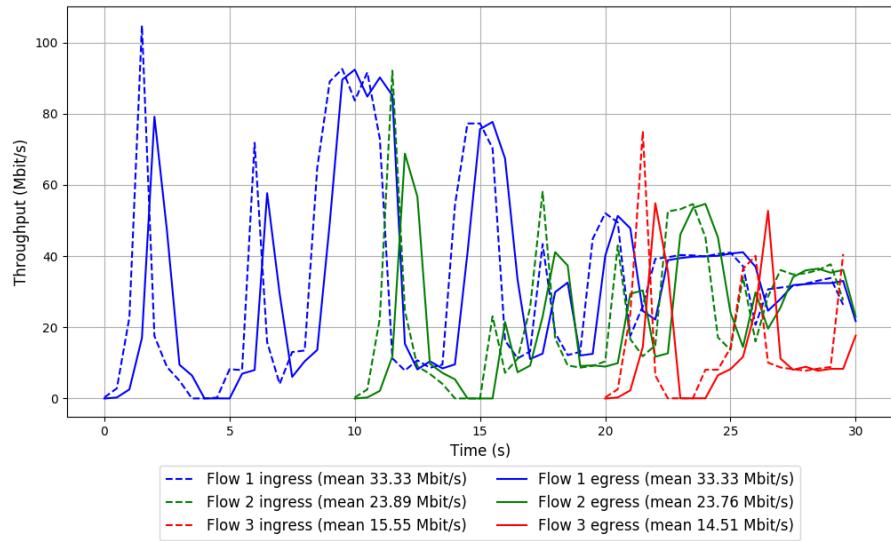


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-01-22 03:32:40
End at: 2019-01-22 03:33:10
Local clock offset: -6.97 ms
Remote clock offset: 2.34 ms

# Below is generated by plot.py at 2019-01-22 04:55:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 53.83 Mbit/s
95th percentile per-packet one-way delay: 181.457 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 33.33 Mbit/s
95th percentile per-packet one-way delay: 142.942 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 23.76 Mbit/s
95th percentile per-packet one-way delay: 194.032 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 14.51 Mbit/s
95th percentile per-packet one-way delay: 318.548 ms
Loss rate: 8.30%
```

Run 3: Report of QUIC Cubic — Data Link

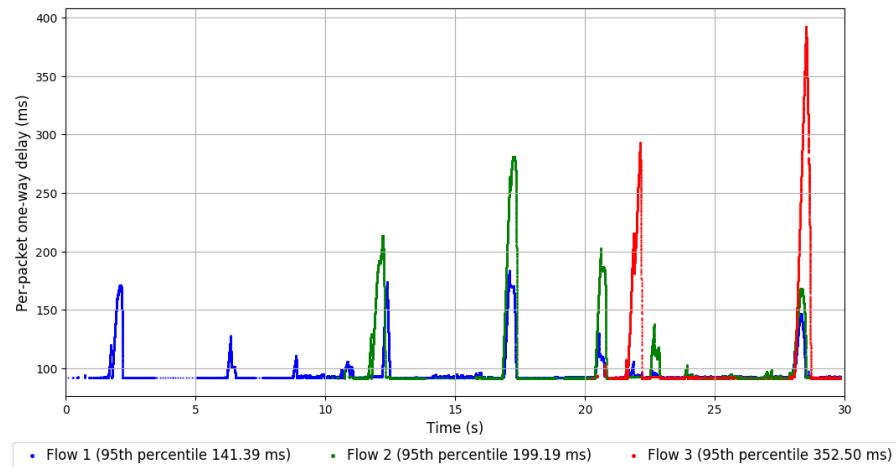
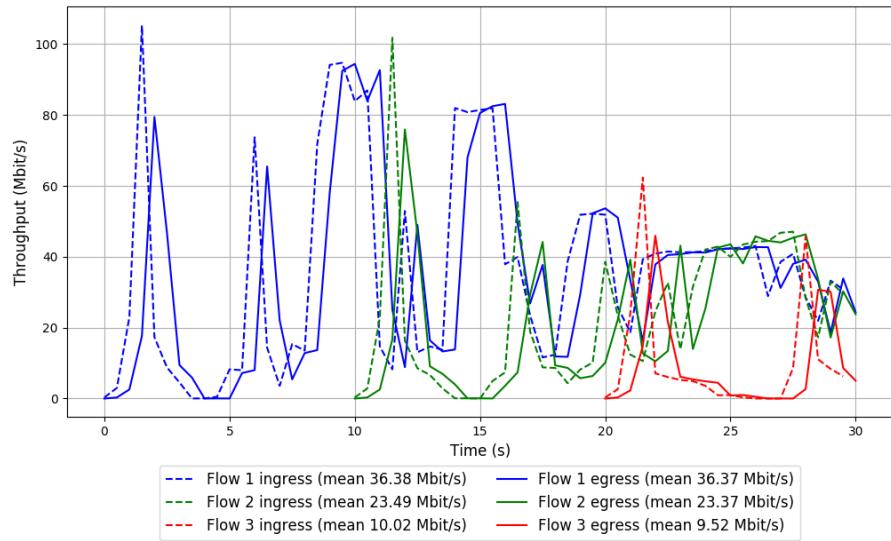


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-22 03:59:39
End at: 2019-01-22 04:00:10
Local clock offset: -7.33 ms
Remote clock offset: 0.826 ms

# Below is generated by plot.py at 2019-01-22 04:55:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.99 Mbit/s
95th percentile per-packet one-way delay: 183.878 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 36.37 Mbit/s
95th percentile per-packet one-way delay: 141.392 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 23.37 Mbit/s
95th percentile per-packet one-way delay: 199.192 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 9.52 Mbit/s
95th percentile per-packet one-way delay: 352.495 ms
Loss rate: 6.64%
```

Run 4: Report of QUIC Cubic — Data Link

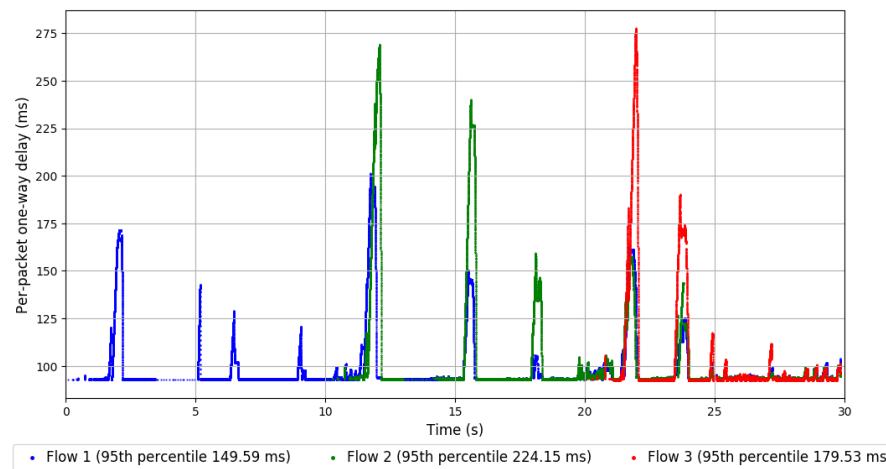
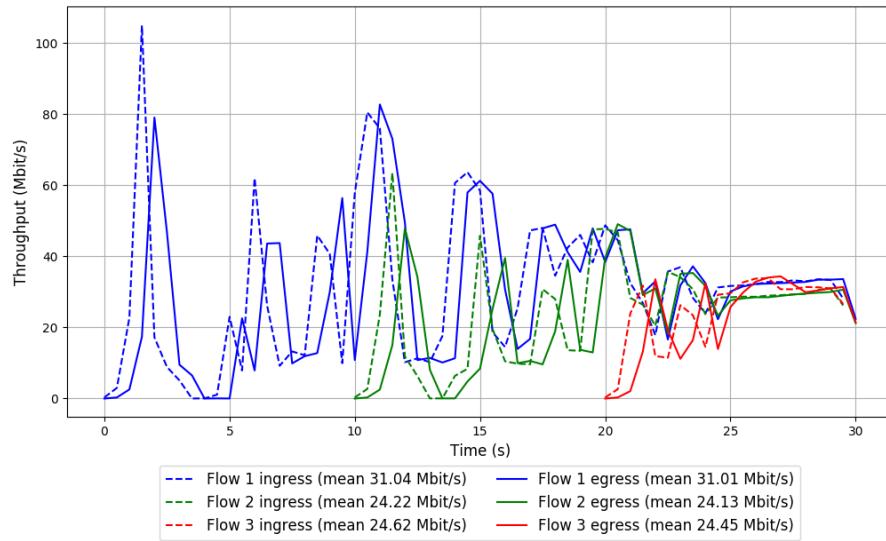


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-22 04:26:40
End at: 2019-01-22 04:27:10
Local clock offset: -6.314 ms
Remote clock offset: 0.995 ms

# Below is generated by plot.py at 2019-01-22 04:55:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.00 Mbit/s
95th percentile per-packet one-way delay: 168.407 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 31.01 Mbit/s
95th percentile per-packet one-way delay: 149.590 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 24.13 Mbit/s
95th percentile per-packet one-way delay: 224.147 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 24.45 Mbit/s
95th percentile per-packet one-way delay: 179.525 ms
Loss rate: 2.41%
```

Run 5: Report of QUIC Cubic — Data Link

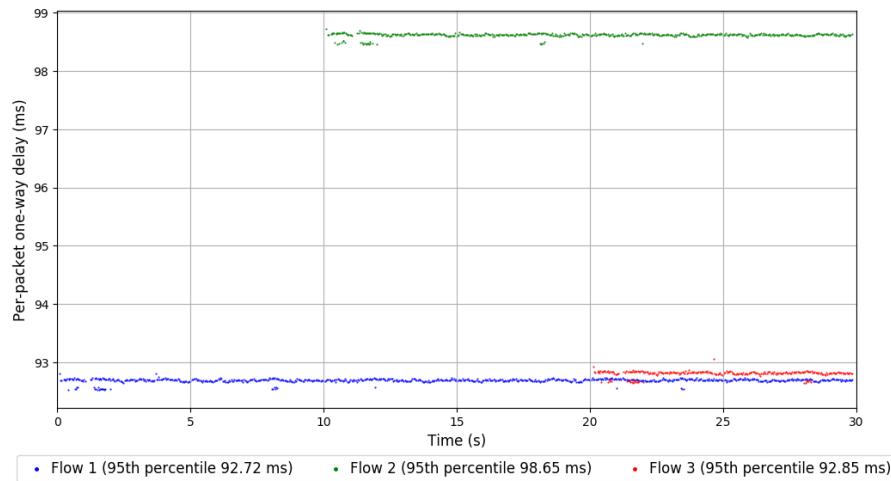
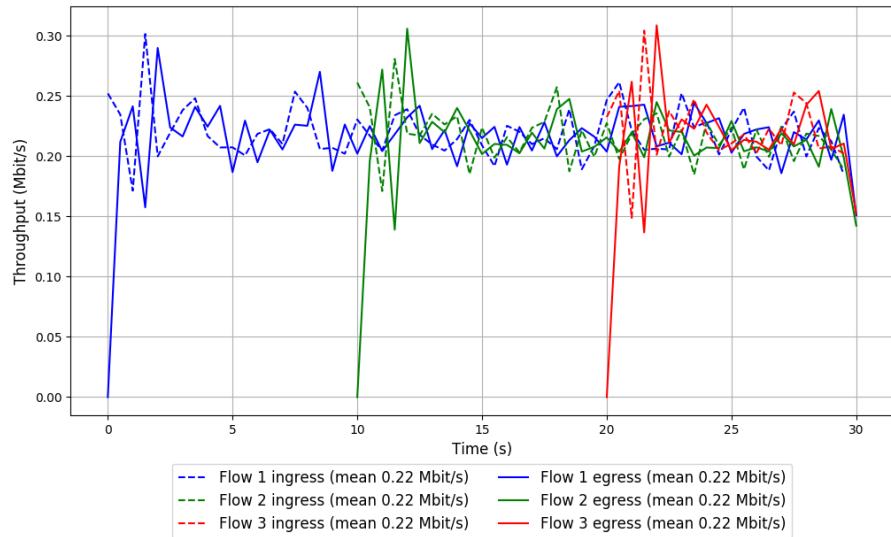


```
Run 1: Statistics of SCReAM

Start at: 2019-01-22 02:28:25
End at: 2019-01-22 02:28:55
Local clock offset: -1.679 ms
Remote clock offset: 3.292 ms

# Below is generated by plot.py at 2019-01-22 04:55:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 98.642 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 92.725 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 98.651 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 92.849 ms
Loss rate: 1.85%
```

Run 1: Report of SCReAM — Data Link

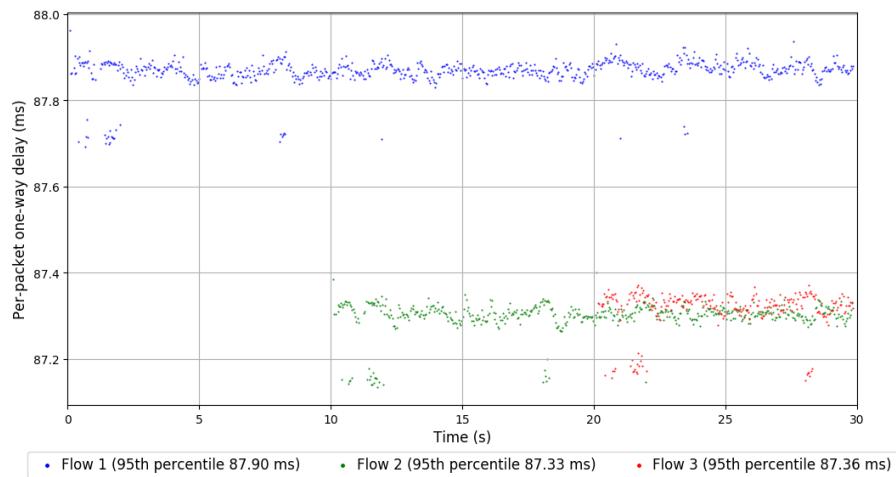
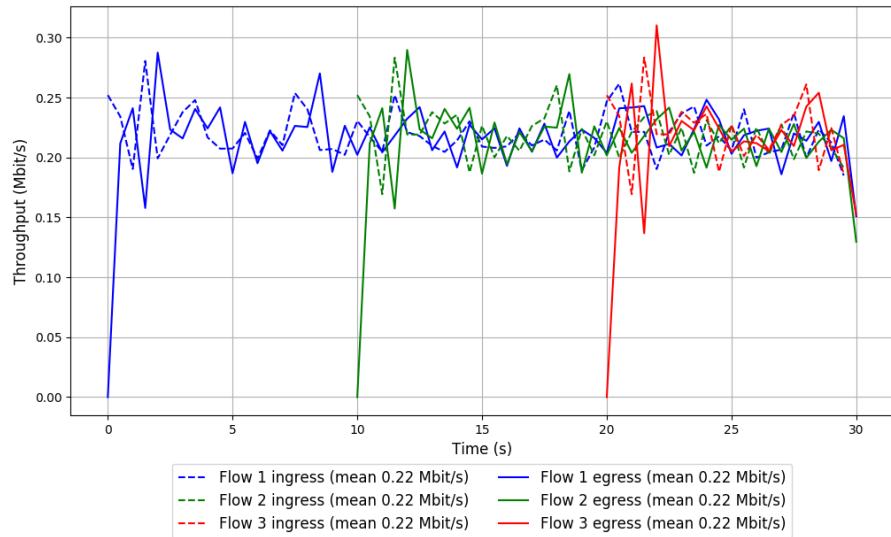


Run 2: Statistics of SCReAM

```
Start at: 2019-01-22 02:55:25
End at: 2019-01-22 02:55:55
Local clock offset: -1.829 ms
Remote clock offset: 7.948 ms

# Below is generated by plot.py at 2019-01-22 04:55:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.891 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.898 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.333 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.355 ms
Loss rate: 1.85%
```

Run 2: Report of SCReAM — Data Link

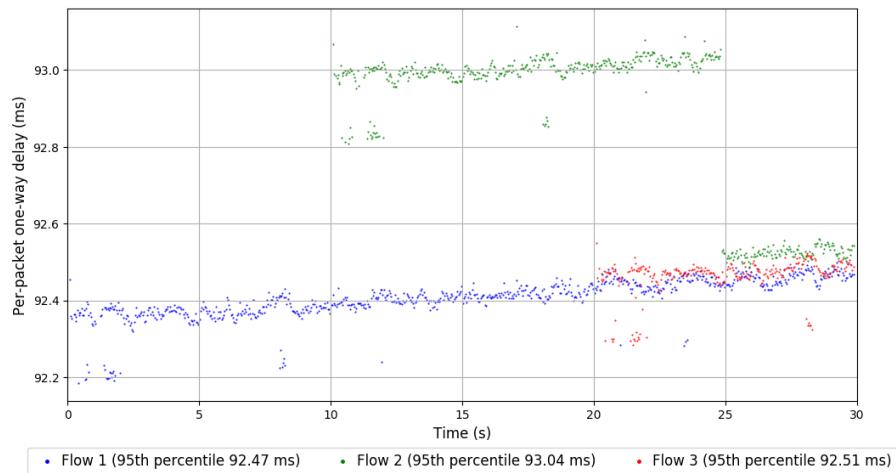
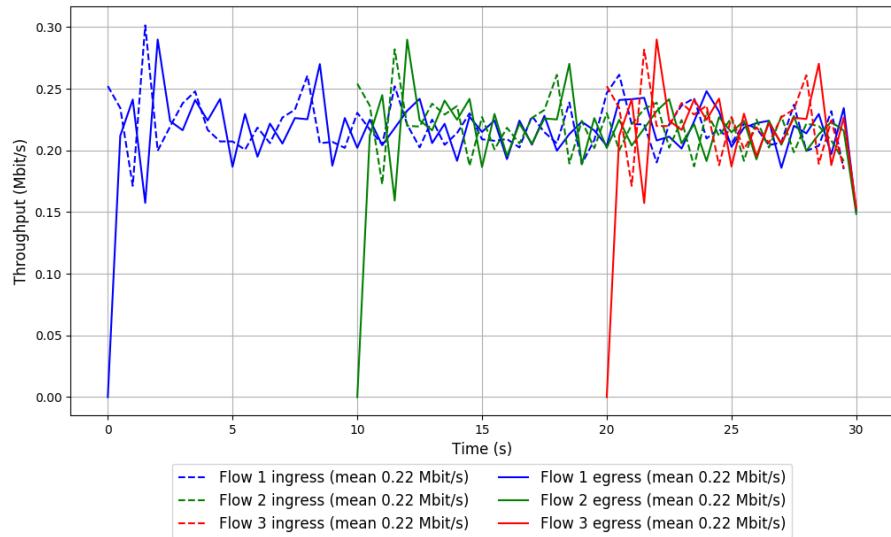


Run 3: Statistics of SCReAM

```
Start at: 2019-01-22 03:22:26
End at: 2019-01-22 03:22:56
Local clock offset: -4.652 ms
Remote clock offset: 1.892 ms

# Below is generated by plot.py at 2019-01-22 04:55:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 93.025 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 92.472 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 93.040 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 92.507 ms
Loss rate: 1.46%
```

Run 3: Report of SCReAM — Data Link

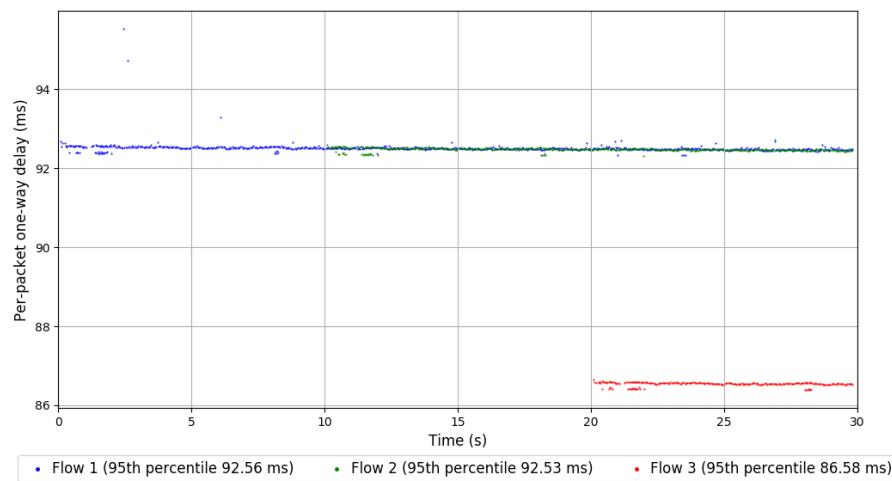
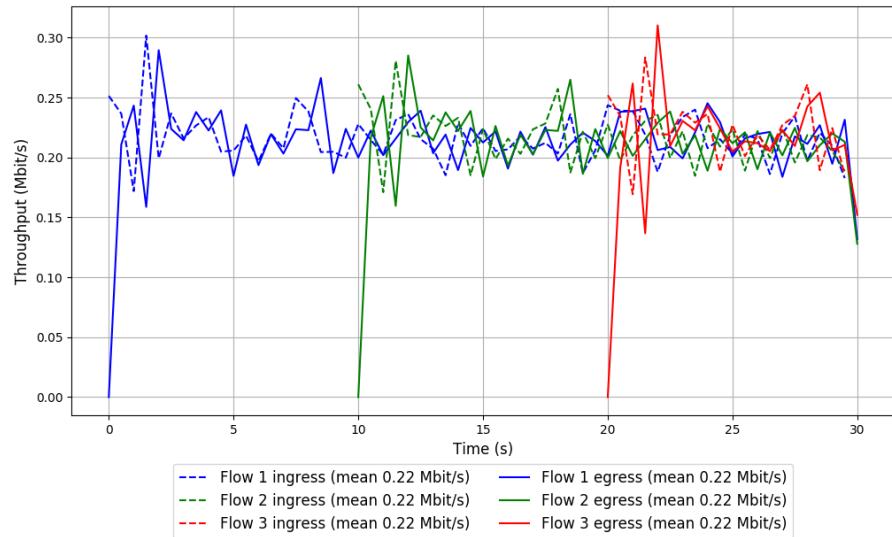


Run 4: Statistics of SCReAM

```
Start at: 2019-01-22 03:49:25
End at: 2019-01-22 03:49:55
Local clock offset: -7.517 ms
Remote clock offset: 7.201 ms

# Below is generated by plot.py at 2019-01-22 04:55:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 92.543 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 92.557 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 92.525 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.582 ms
Loss rate: 1.85%
```

Run 4: Report of SCReAM — Data Link

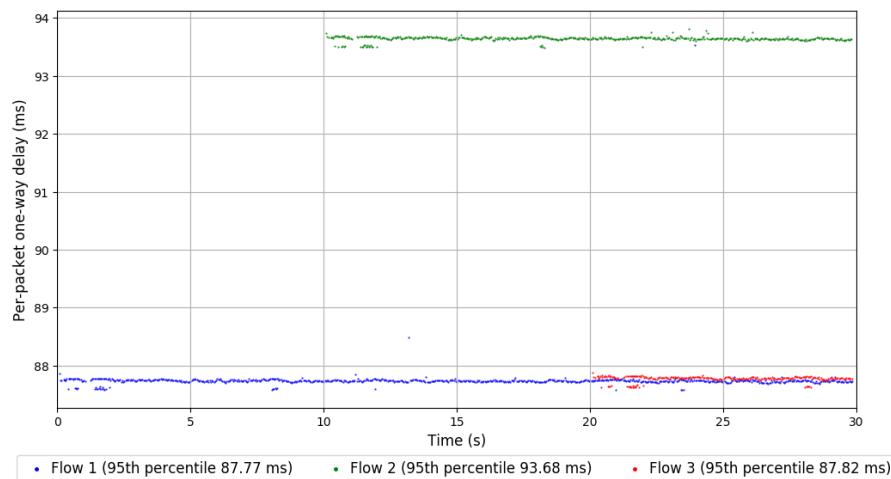
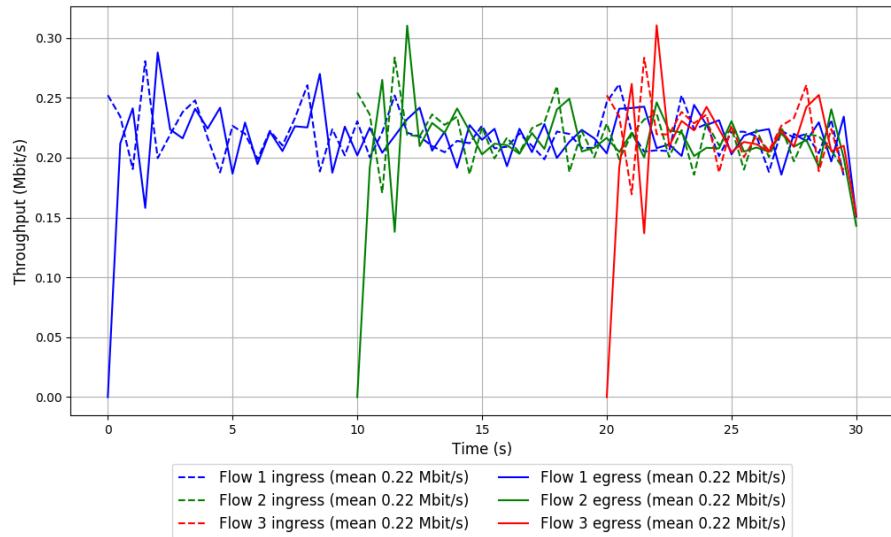


Run 5: Statistics of SCReAM

```
Start at: 2019-01-22 04:16:25
End at: 2019-01-22 04:16:55
Local clock offset: -6.457 ms
Remote clock offset: 5.822 ms

# Below is generated by plot.py at 2019-01-22 04:55:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 93.672 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.772 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 93.684 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.818 ms
Loss rate: 1.85%
```

Run 5: Report of SCReAM — Data Link

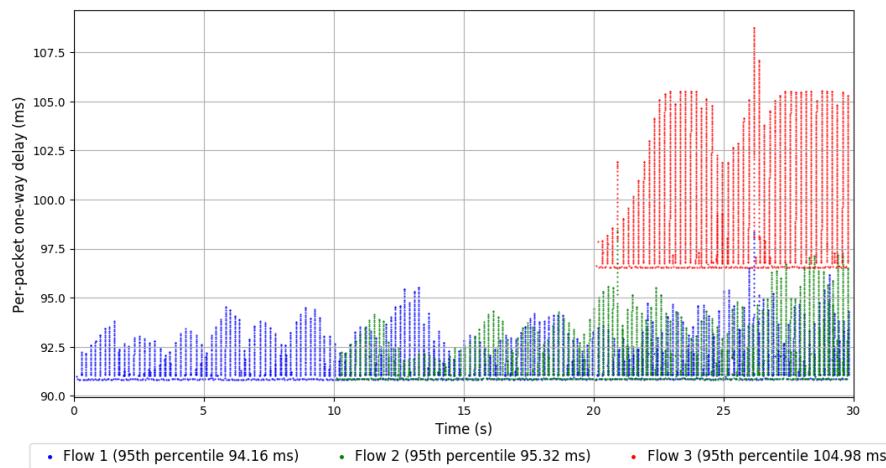
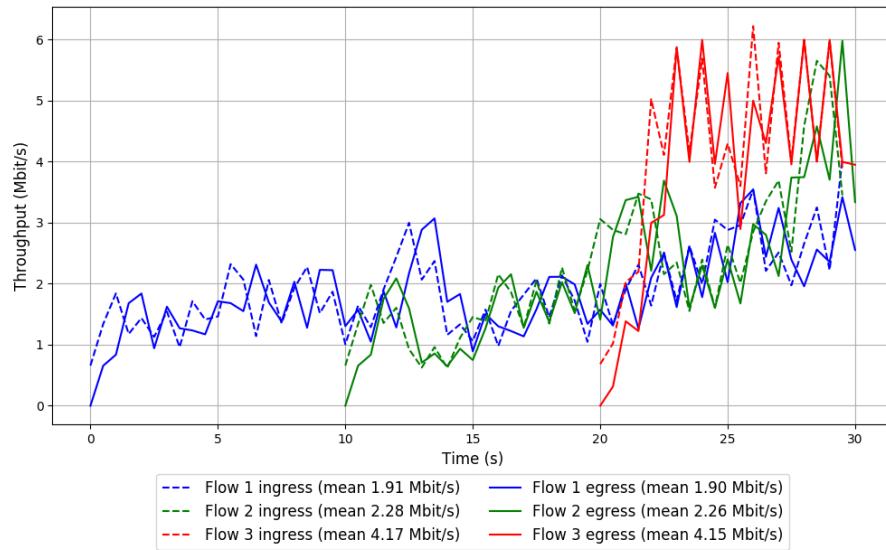


Run 1: Statistics of Sprout

```
Start at: 2019-01-22 02:32:11
End at: 2019-01-22 02:32:42
Local clock offset: -2.523 ms
Remote clock offset: 4.291 ms

# Below is generated by plot.py at 2019-01-22 04:55:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.74 Mbit/s
95th percentile per-packet one-way delay: 103.388 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 94.157 ms
Loss rate: 1.30%
-- Flow 2:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 95.319 ms
Loss rate: 1.64%
-- Flow 3:
Average throughput: 4.15 Mbit/s
95th percentile per-packet one-way delay: 104.985 ms
Loss rate: 2.36%
```

Run 1: Report of Sprout — Data Link

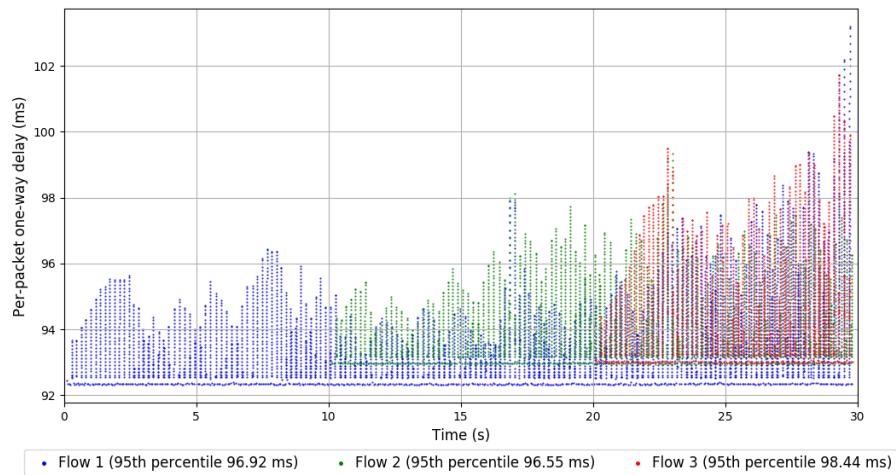
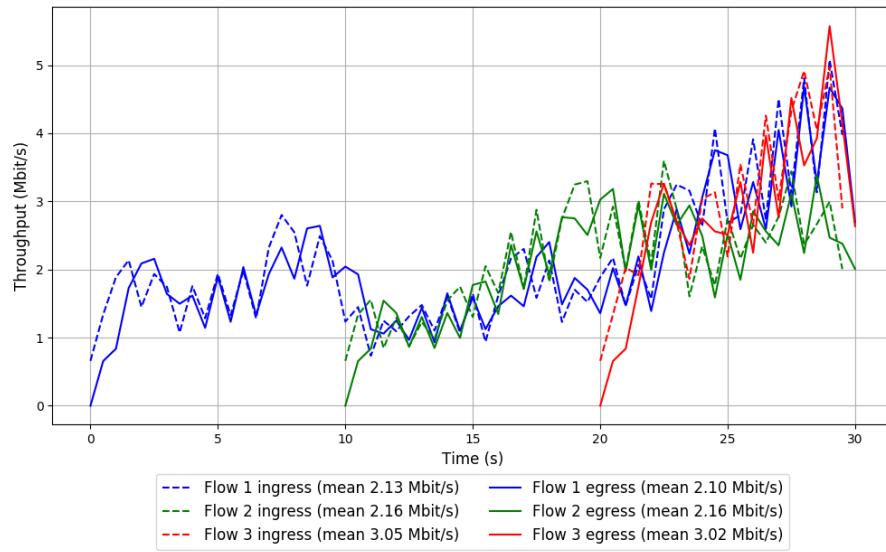


Run 2: Statistics of Sprout

```
Start at: 2019-01-22 02:59:11
End at: 2019-01-22 02:59:41
Local clock offset: -1.86 ms
Remote clock offset: 2.781 ms

# Below is generated by plot.py at 2019-01-22 04:55:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.52 Mbit/s
95th percentile per-packet one-way delay: 97.261 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 96.922 ms
Loss rate: 1.57%
-- Flow 2:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 96.547 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 3.02 Mbit/s
95th percentile per-packet one-way delay: 98.441 ms
Loss rate: 2.28%
```

Run 2: Report of Sprout — Data Link

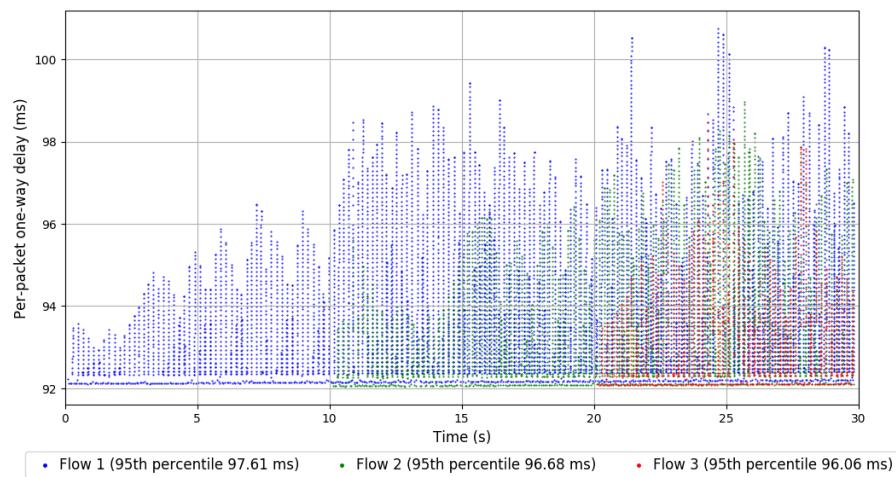
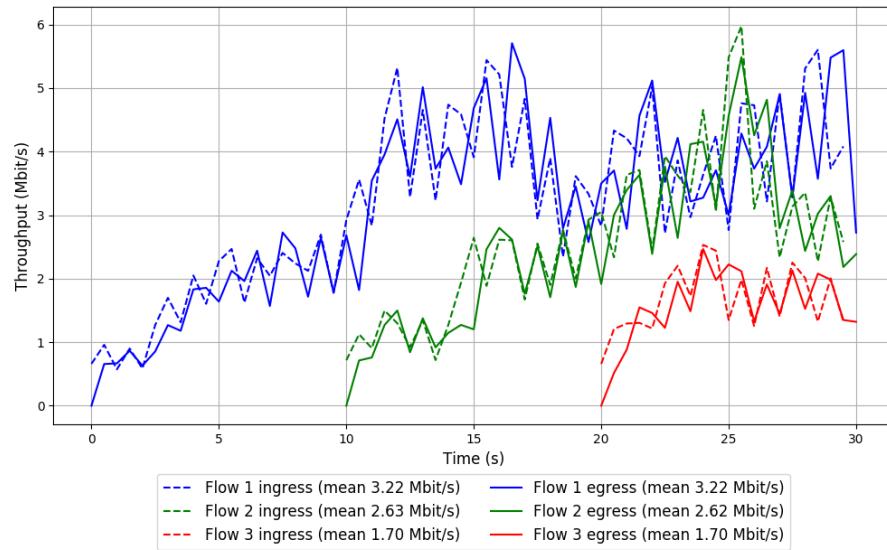


Run 3: Statistics of Sprout

```
Start at: 2019-01-22 03:26:12
End at: 2019-01-22 03:26:42
Local clock offset: -6.516 ms
Remote clock offset: 1.54 ms

# Below is generated by plot.py at 2019-01-22 04:55:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.51 Mbit/s
95th percentile per-packet one-way delay: 97.292 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 3.22 Mbit/s
95th percentile per-packet one-way delay: 97.613 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 2.62 Mbit/s
95th percentile per-packet one-way delay: 96.678 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 1.70 Mbit/s
95th percentile per-packet one-way delay: 96.058 ms
Loss rate: 1.97%
```

Run 3: Report of Sprout — Data Link

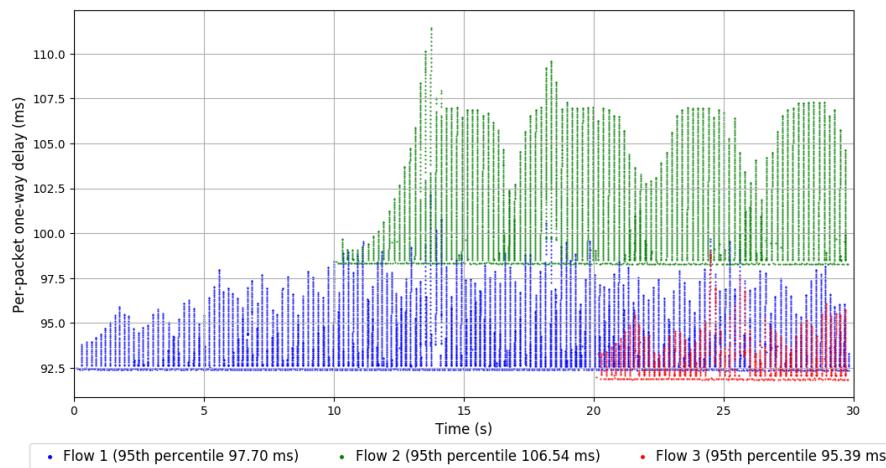
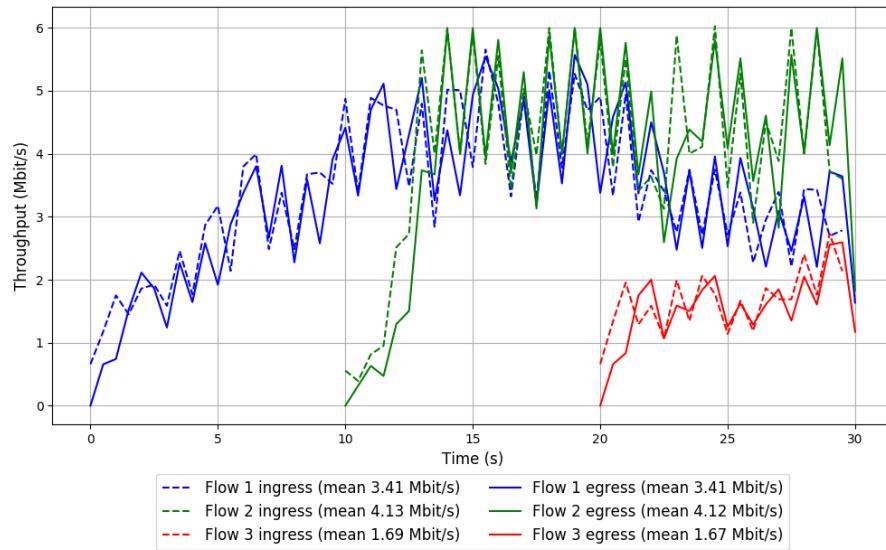


Run 4: Statistics of Sprout

```
Start at: 2019-01-22 03:53:11
End at: 2019-01-22 03:53:41
Local clock offset: -7.026 ms
Remote clock offset: 1.21 ms

# Below is generated by plot.py at 2019-01-22 04:55:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.68 Mbit/s
95th percentile per-packet one-way delay: 105.524 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 3.41 Mbit/s
95th percentile per-packet one-way delay: 97.699 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 4.12 Mbit/s
95th percentile per-packet one-way delay: 106.541 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 1.67 Mbit/s
95th percentile per-packet one-way delay: 95.390 ms
Loss rate: 3.30%
```

Run 4: Report of Sprout — Data Link

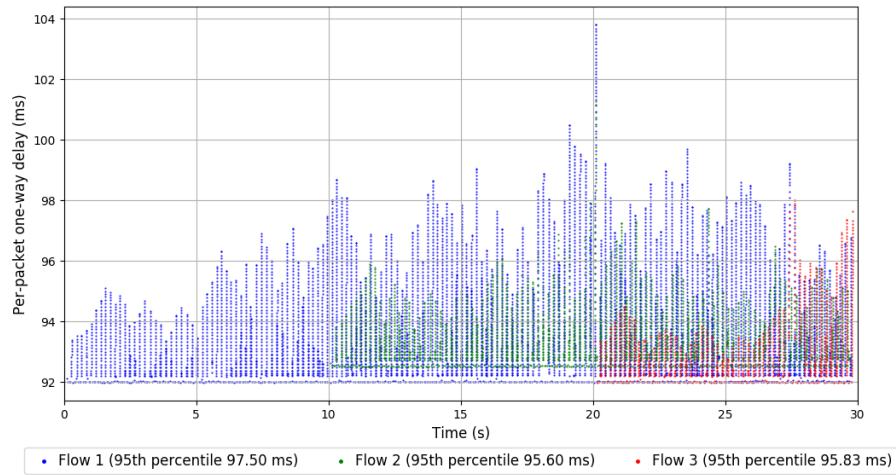
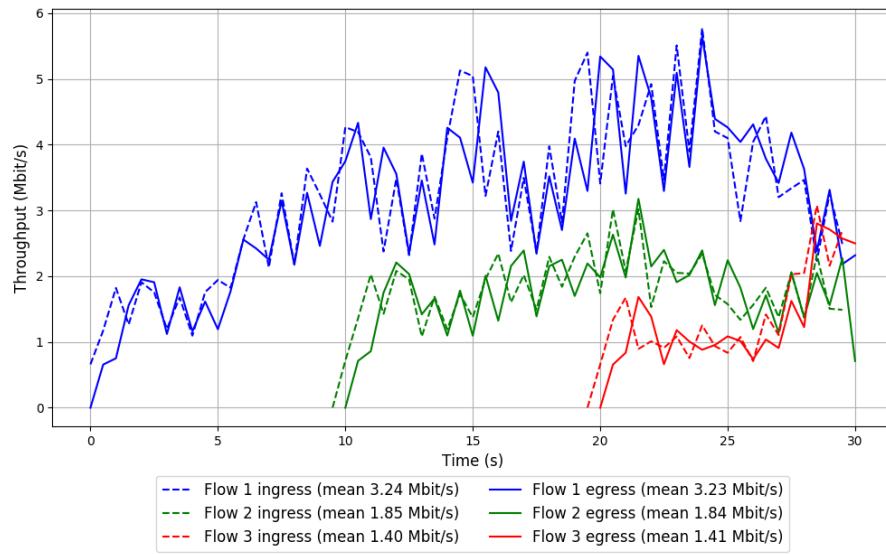


Run 5: Statistics of Sprout

```
Start at: 2019-01-22 04:20:12
End at: 2019-01-22 04:20:42
Local clock offset: -6.426 ms
Remote clock offset: 0.934 ms

# Below is generated by plot.py at 2019-01-22 04:55:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.91 Mbit/s
95th percentile per-packet one-way delay: 97.124 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 3.23 Mbit/s
95th percentile per-packet one-way delay: 97.502 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 1.84 Mbit/s
95th percentile per-packet one-way delay: 95.601 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 95.829 ms
Loss rate: 0.71%
```

Run 5: Report of Sprout — Data Link

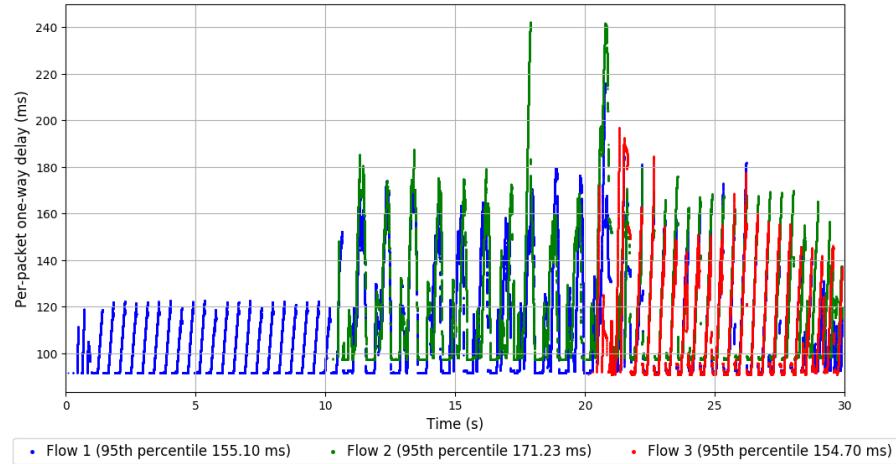
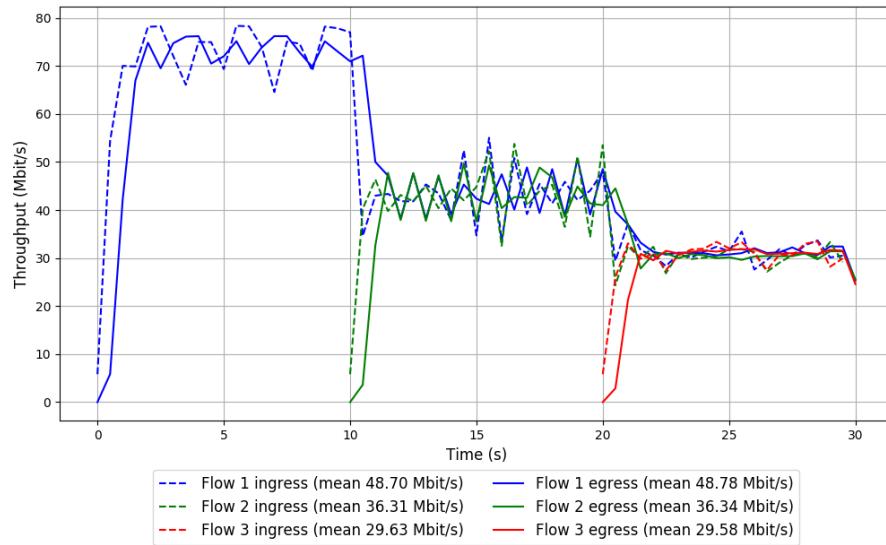


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-22 02:51:29
End at: 2019-01-22 02:51:59
Local clock offset: -1.748 ms
Remote clock offset: 4.173 ms

# Below is generated by plot.py at 2019-01-22 04:55:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.63 Mbit/s
95th percentile per-packet one-way delay: 163.713 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 48.78 Mbit/s
95th percentile per-packet one-way delay: 155.103 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 36.34 Mbit/s
95th percentile per-packet one-way delay: 171.230 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 29.58 Mbit/s
95th percentile per-packet one-way delay: 154.701 ms
Loss rate: 1.91%
```

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

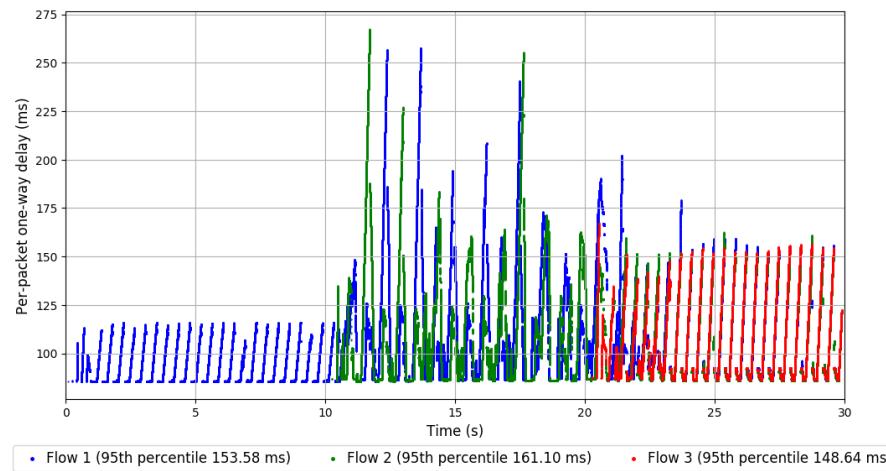
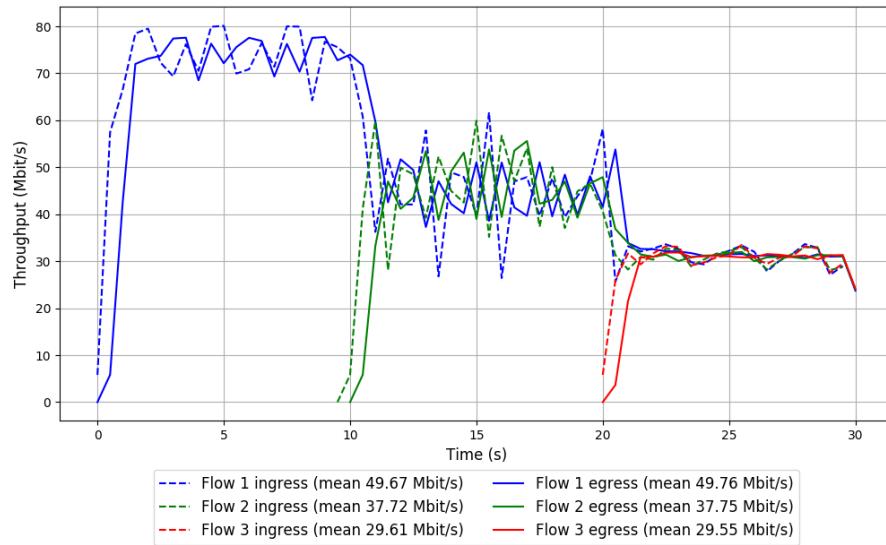


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-22 03:18:29
End at: 2019-01-22 03:18:59
Local clock offset: -3.874 ms
Remote clock offset: 8.087 ms

# Below is generated by plot.py at 2019-01-22 04:55:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.54 Mbit/s
95th percentile per-packet one-way delay: 154.512 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 49.76 Mbit/s
95th percentile per-packet one-way delay: 153.579 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 37.75 Mbit/s
95th percentile per-packet one-way delay: 161.103 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 29.55 Mbit/s
95th percentile per-packet one-way delay: 148.644 ms
Loss rate: 1.92%
```

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

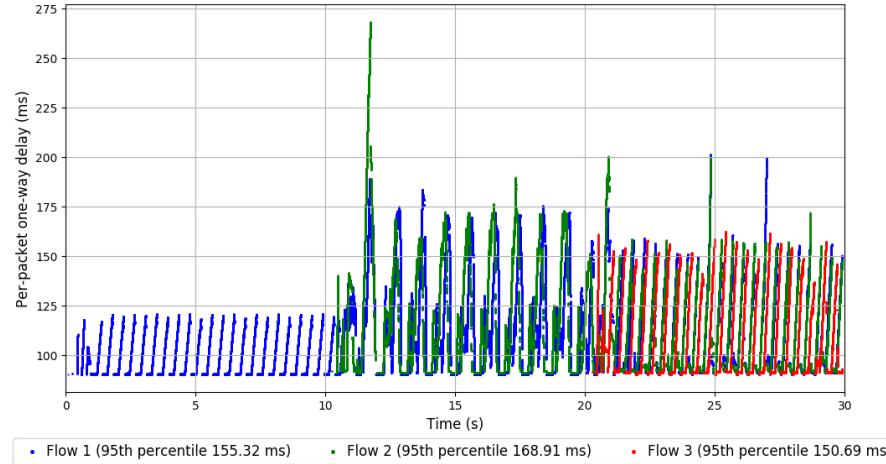
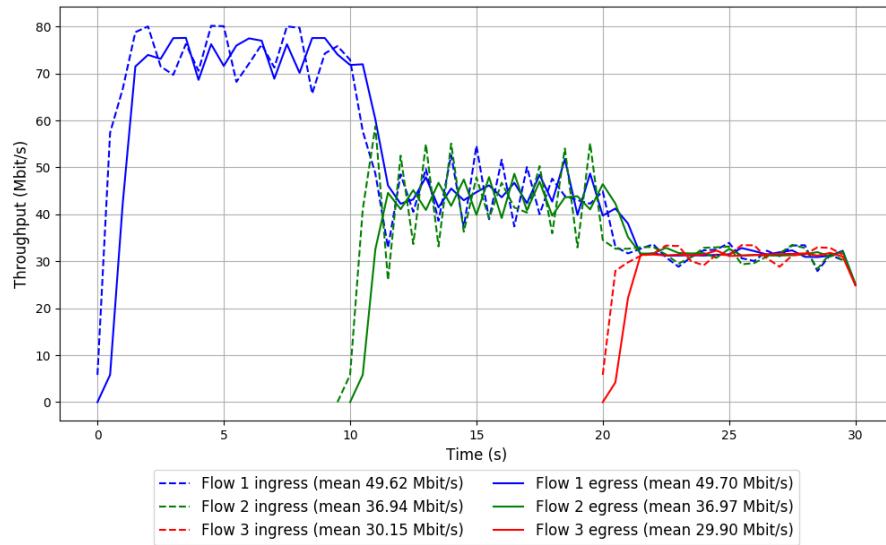


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-22 03:45:29
End at: 2019-01-22 03:45:59
Local clock offset: -9.001 ms
Remote clock offset: 2.225 ms

# Below is generated by plot.py at 2019-01-22 04:56:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.09 Mbit/s
95th percentile per-packet one-way delay: 158.714 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 49.70 Mbit/s
95th percentile per-packet one-way delay: 155.317 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 36.97 Mbit/s
95th percentile per-packet one-way delay: 168.915 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 29.90 Mbit/s
95th percentile per-packet one-way delay: 150.693 ms
Loss rate: 2.57%
```

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

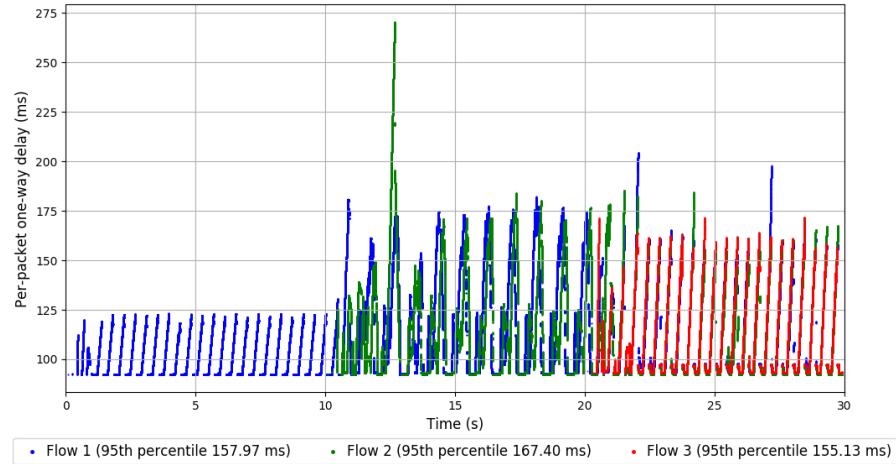
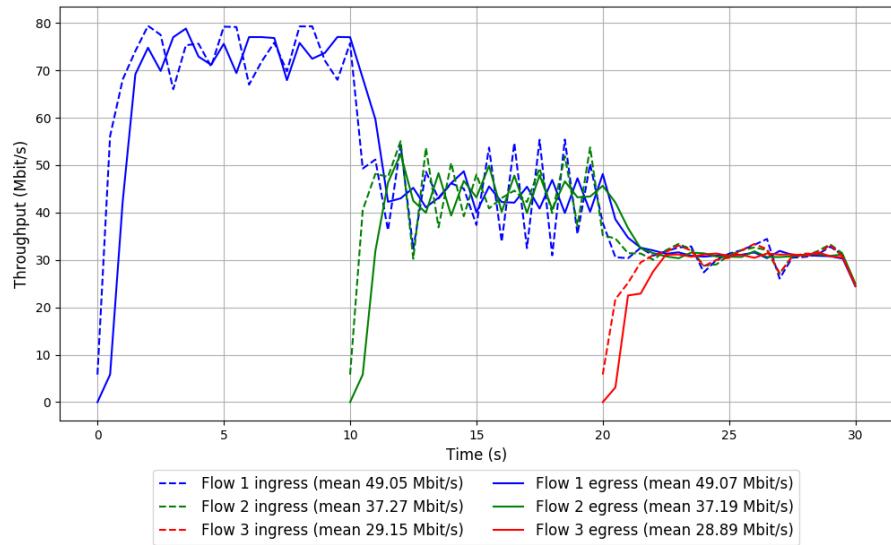


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-22 04:12:28
End at: 2019-01-22 04:12:58
Local clock offset: -6.433 ms
Remote clock offset: 0.817 ms

# Below is generated by plot.py at 2019-01-22 04:56:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.27 Mbit/s
95th percentile per-packet one-way delay: 160.677 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 49.07 Mbit/s
95th percentile per-packet one-way delay: 157.969 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 37.19 Mbit/s
95th percentile per-packet one-way delay: 167.397 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 28.89 Mbit/s
95th percentile per-packet one-way delay: 155.129 ms
Loss rate: 2.61%
```

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

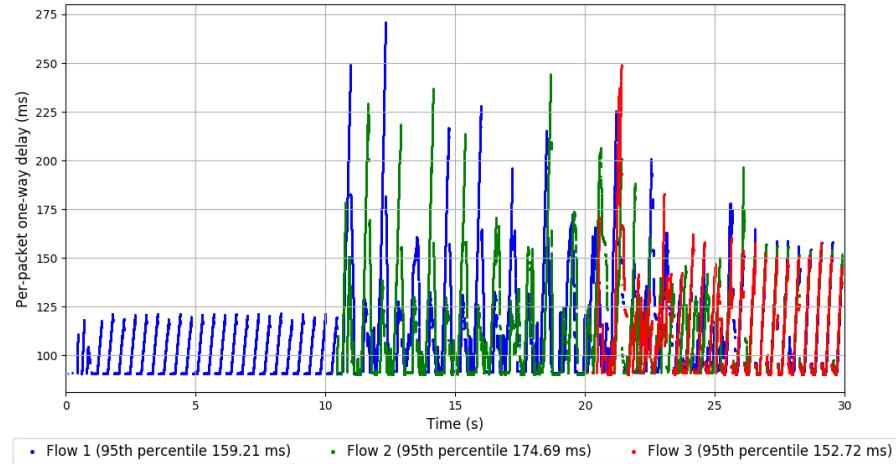
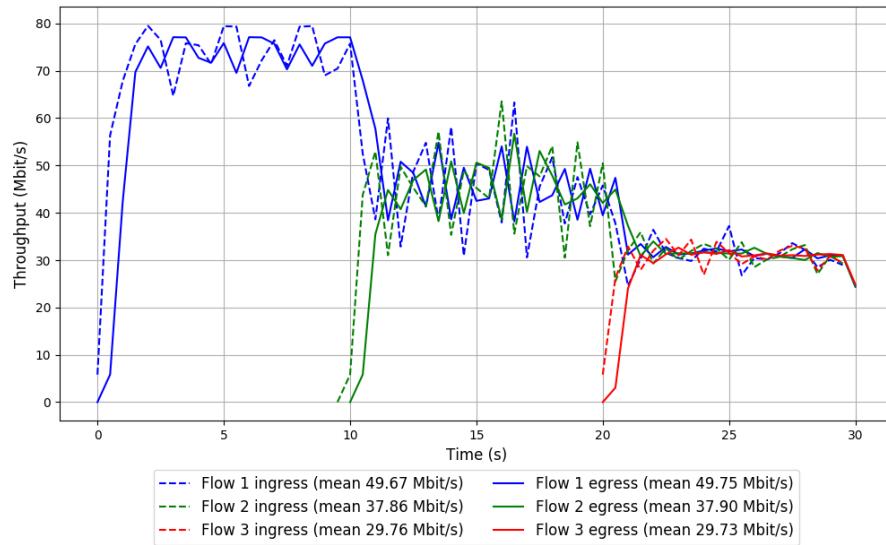


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-22 04:39:28
End at: 2019-01-22 04:39:58
Local clock offset: -7.152 ms
Remote clock offset: 2.508 ms

# Below is generated by plot.py at 2019-01-22 04:56:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.70 Mbit/s
95th percentile per-packet one-way delay: 162.923 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 49.75 Mbit/s
95th percentile per-packet one-way delay: 159.209 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 37.90 Mbit/s
95th percentile per-packet one-way delay: 174.686 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 29.73 Mbit/s
95th percentile per-packet one-way delay: 152.723 ms
Loss rate: 1.80%
```

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

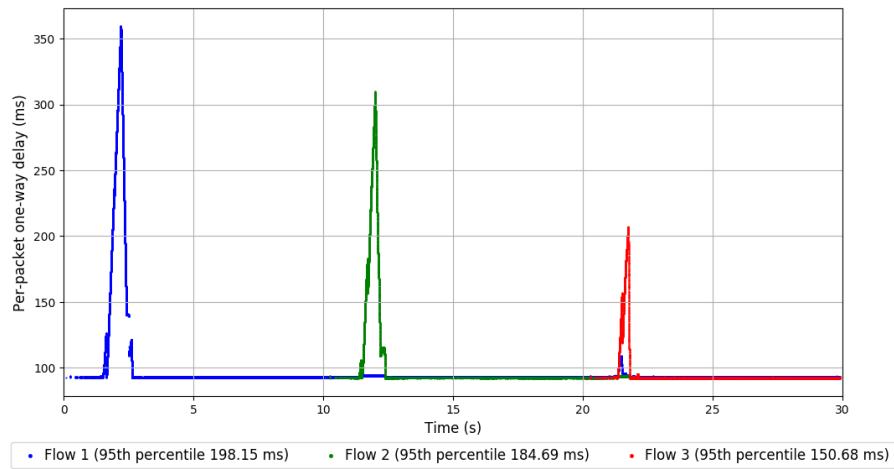
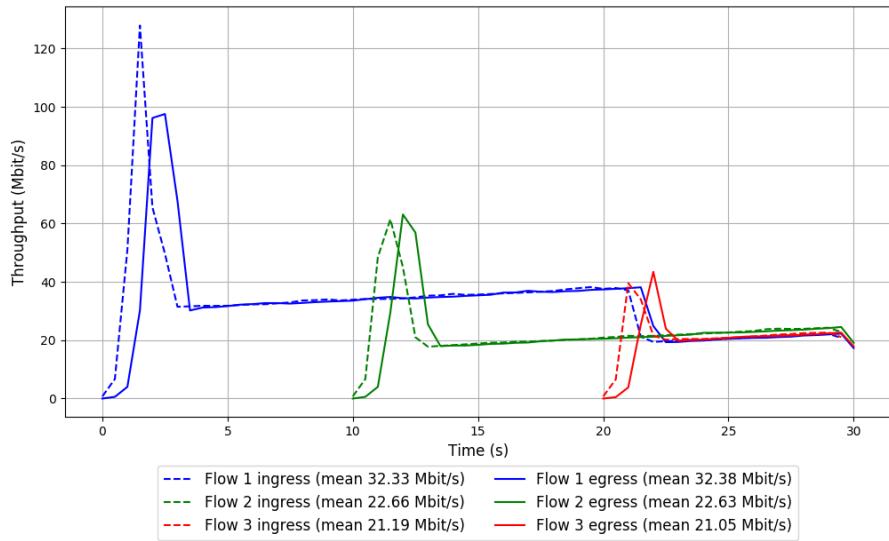


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-22 02:45:08
End at: 2019-01-22 02:45:38
Local clock offset: -1.526 ms
Remote clock offset: 3.025 ms

# Below is generated by plot.py at 2019-01-22 04:56:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.33 Mbit/s
95th percentile per-packet one-way delay: 182.557 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 32.38 Mbit/s
95th percentile per-packet one-way delay: 198.153 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 22.63 Mbit/s
95th percentile per-packet one-way delay: 184.687 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 21.05 Mbit/s
95th percentile per-packet one-way delay: 150.680 ms
Loss rate: 2.34%
```

Run 1: Report of TCP Vegas — Data Link

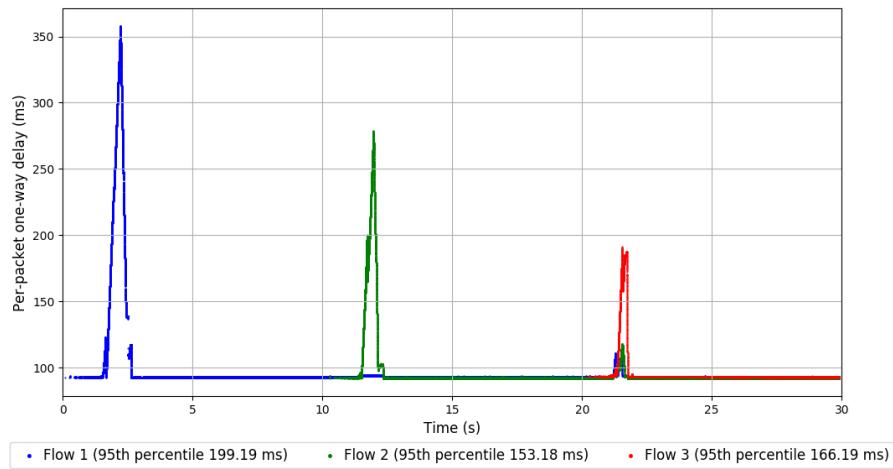
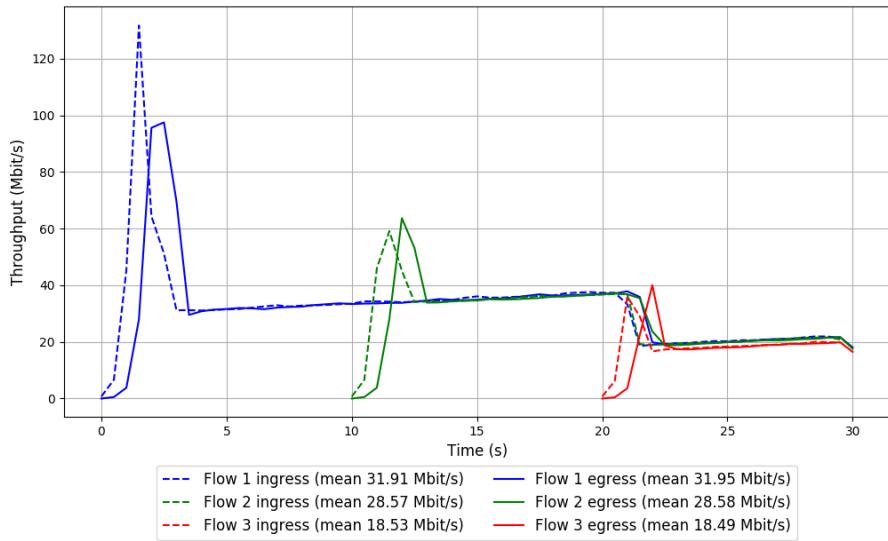


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-22 03:12:08
End at: 2019-01-22 03:12:38
Local clock offset: -1.755 ms
Remote clock offset: 2.856 ms

# Below is generated by plot.py at 2019-01-22 04:56:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.00 Mbit/s
95th percentile per-packet one-way delay: 174.995 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 31.95 Mbit/s
95th percentile per-packet one-way delay: 199.191 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 28.58 Mbit/s
95th percentile per-packet one-way delay: 153.184 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 18.49 Mbit/s
95th percentile per-packet one-way delay: 166.189 ms
Loss rate: 1.93%
```

Run 2: Report of TCP Vegas — Data Link

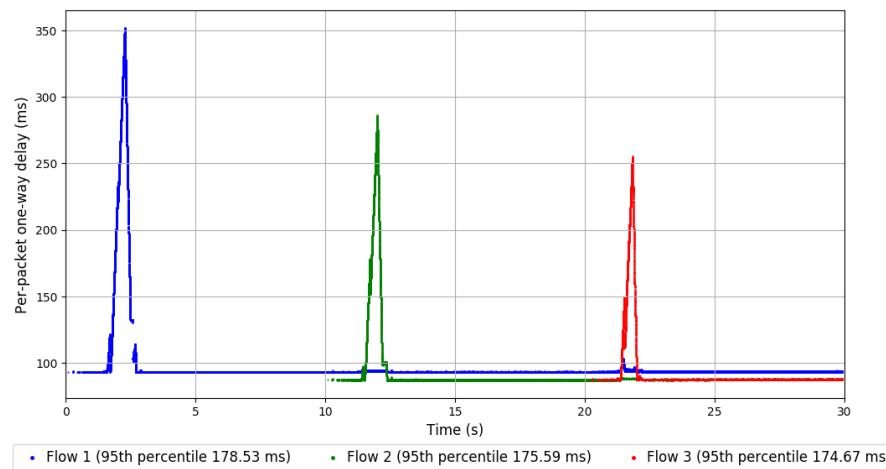
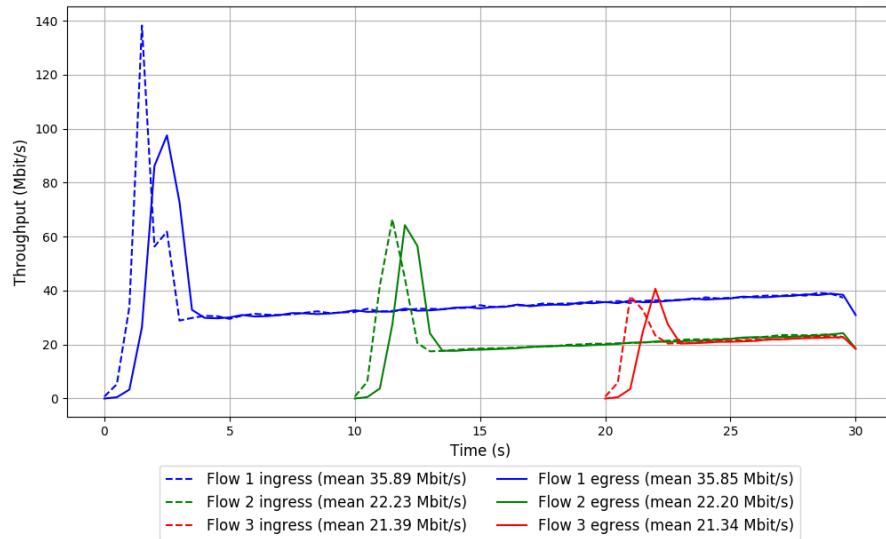


Run 3: Statistics of TCP Vegas

```
Start at: 2019-01-22 03:39:09
End at: 2019-01-22 03:39:39
Local clock offset: -8.535 ms
Remote clock offset: 6.059 ms

# Below is generated by plot.py at 2019-01-22 04:56:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.61 Mbit/s
95th percentile per-packet one-way delay: 176.553 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 35.85 Mbit/s
95th percentile per-packet one-way delay: 178.525 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 22.20 Mbit/s
95th percentile per-packet one-way delay: 175.585 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 21.34 Mbit/s
95th percentile per-packet one-way delay: 174.670 ms
Loss rate: 1.96%
```

Run 3: Report of TCP Vegas — Data Link

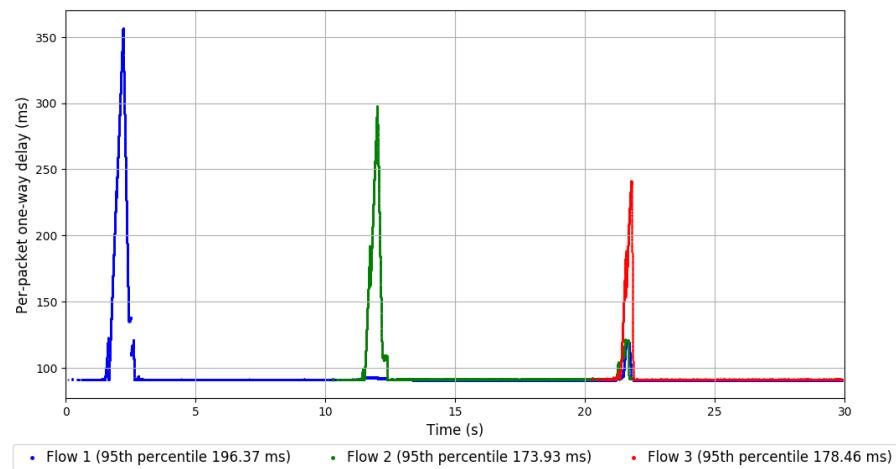
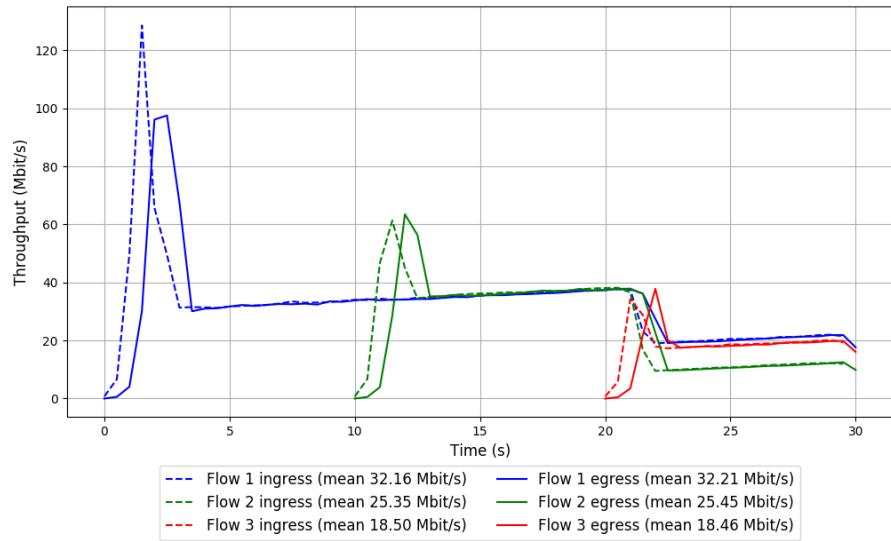


Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-22 04:06:08
End at: 2019-01-22 04:06:38
Local clock offset: -7.195 ms
Remote clock offset: 1.963 ms

# Below is generated by plot.py at 2019-01-22 04:56:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.17 Mbit/s
95th percentile per-packet one-way delay: 184.154 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 32.21 Mbit/s
95th percentile per-packet one-way delay: 196.374 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 25.45 Mbit/s
95th percentile per-packet one-way delay: 173.927 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 18.46 Mbit/s
95th percentile per-packet one-way delay: 178.464 ms
Loss rate: 1.97%
```

Run 4: Report of TCP Vegas — Data Link

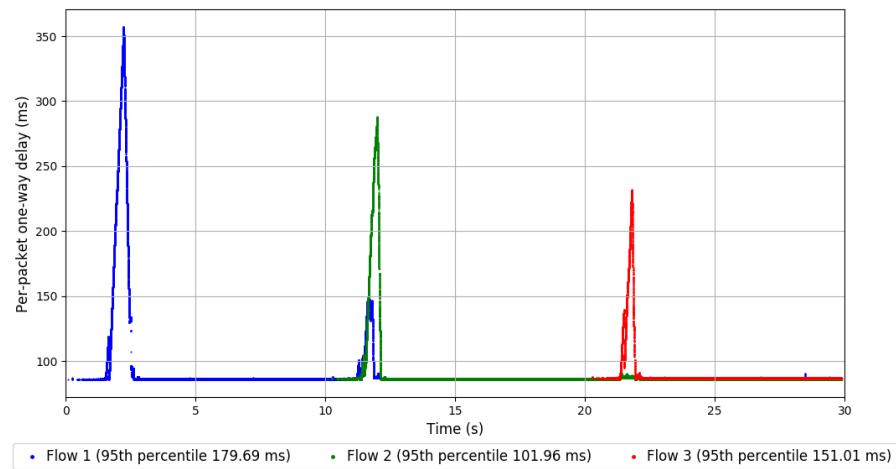
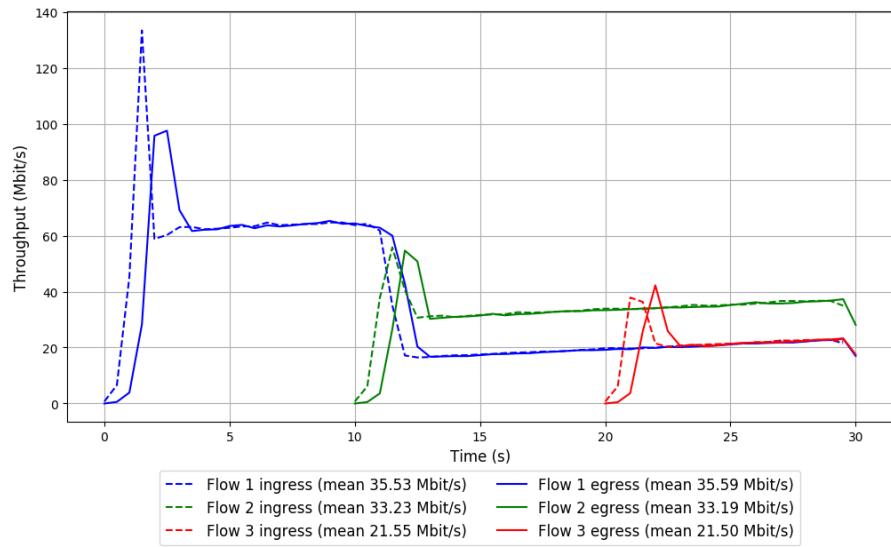


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-22 04:33:08
End at: 2019-01-22 04:33:38
Local clock offset: -6.32 ms
Remote clock offset: 7.611 ms

# Below is generated by plot.py at 2019-01-22 04:56:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.68 Mbit/s
95th percentile per-packet one-way delay: 151.480 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 35.59 Mbit/s
95th percentile per-packet one-way delay: 179.693 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 33.19 Mbit/s
95th percentile per-packet one-way delay: 101.956 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 21.50 Mbit/s
95th percentile per-packet one-way delay: 151.009 ms
Loss rate: 1.98%
```

Run 5: Report of TCP Vegas — Data Link

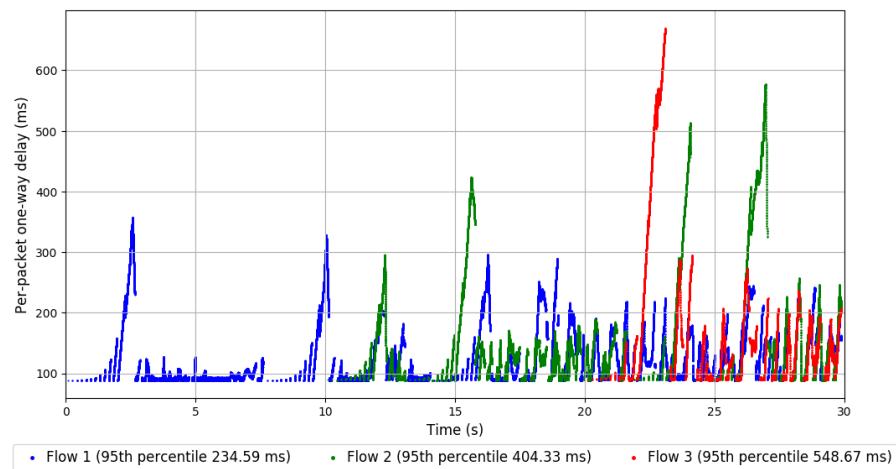
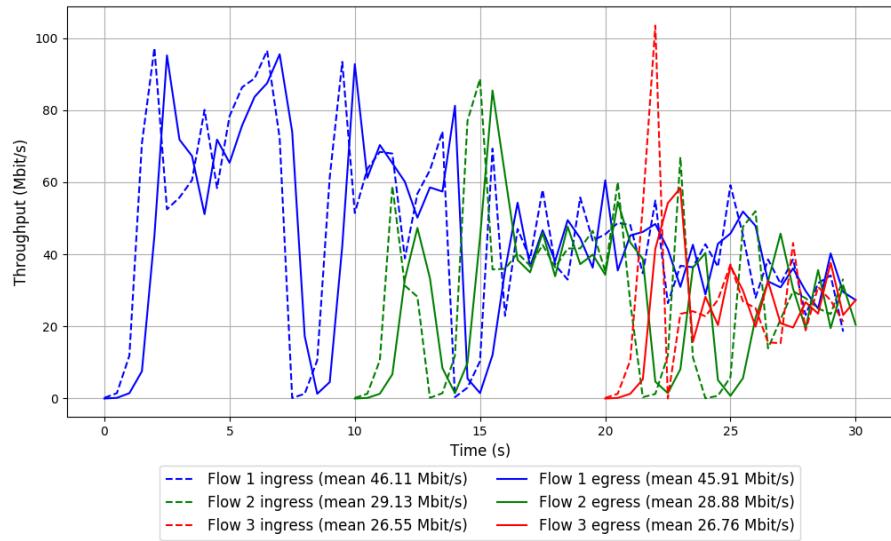


Run 1: Statistics of Verus

```
Start at: 2019-01-22 02:54:07
End at: 2019-01-22 02:54:37
Local clock offset: -1.819 ms
Remote clock offset: 6.802 ms

# Below is generated by plot.py at 2019-01-22 04:56:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.88 Mbit/s
95th percentile per-packet one-way delay: 322.332 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 45.91 Mbit/s
95th percentile per-packet one-way delay: 234.590 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 28.88 Mbit/s
95th percentile per-packet one-way delay: 404.329 ms
Loss rate: 1.72%
-- Flow 3:
Average throughput: 26.76 Mbit/s
95th percentile per-packet one-way delay: 548.674 ms
Loss rate: 0.96%
```

Run 1: Report of Verus — Data Link

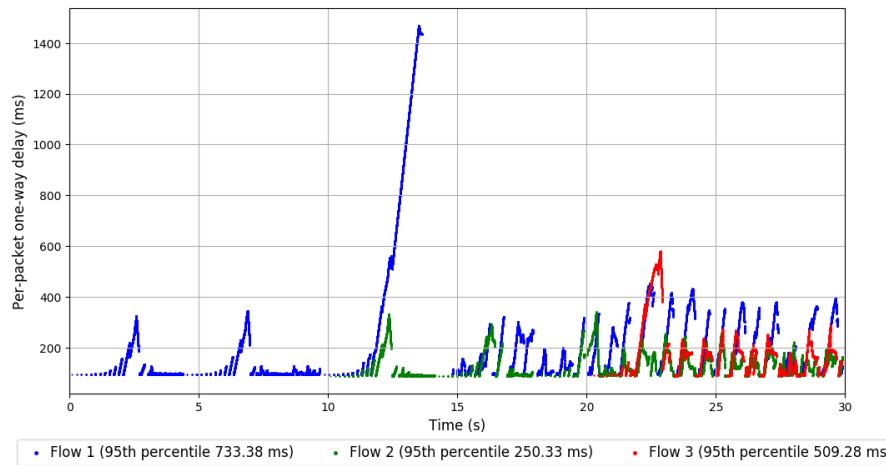
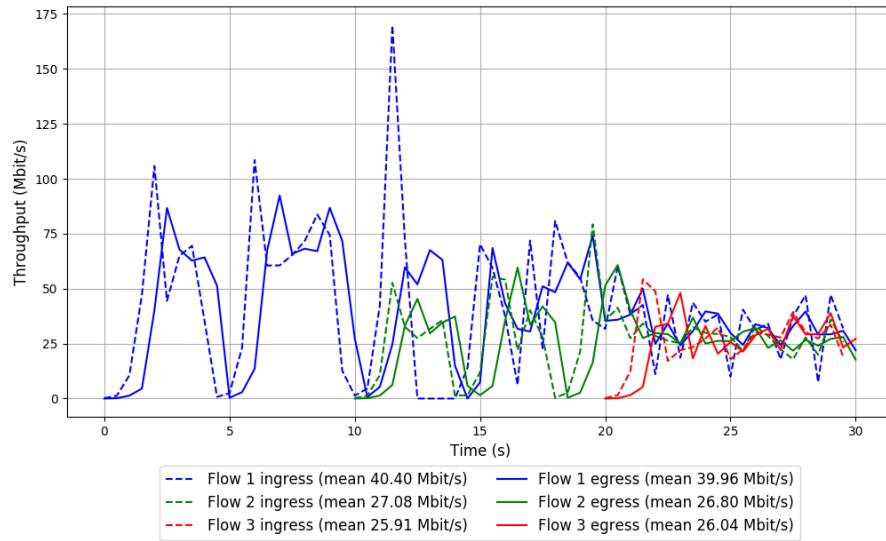


Run 2: Statistics of Verus

```
Start at: 2019-01-22 03:21:08
End at: 2019-01-22 03:21:38
Local clock offset: -4.232 ms
Remote clock offset: 6.744 ms

# Below is generated by plot.py at 2019-01-22 04:56:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.30 Mbit/s
95th percentile per-packet one-way delay: 502.085 ms
Loss rate: 1.65%
-- Flow 1:
Average throughput: 39.96 Mbit/s
95th percentile per-packet one-way delay: 733.380 ms
Loss rate: 1.60%
-- Flow 2:
Average throughput: 26.80 Mbit/s
95th percentile per-packet one-way delay: 250.328 ms
Loss rate: 1.86%
-- Flow 3:
Average throughput: 26.04 Mbit/s
95th percentile per-packet one-way delay: 509.280 ms
Loss rate: 1.45%
```

Run 2: Report of Verus — Data Link

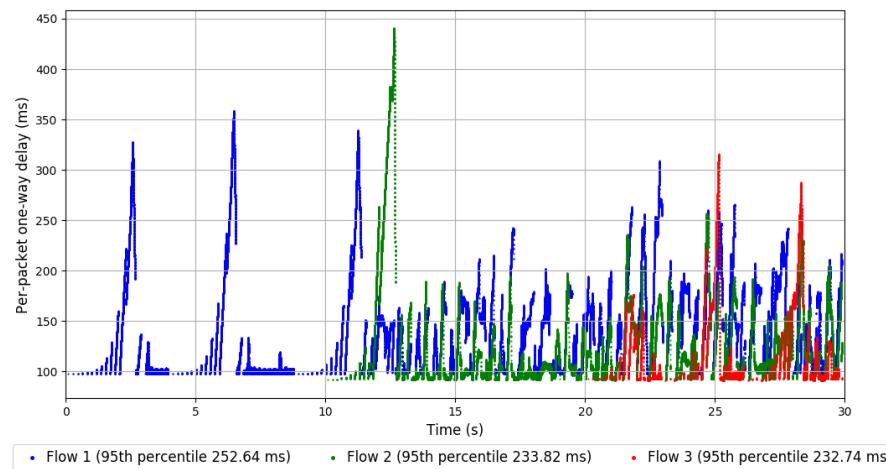
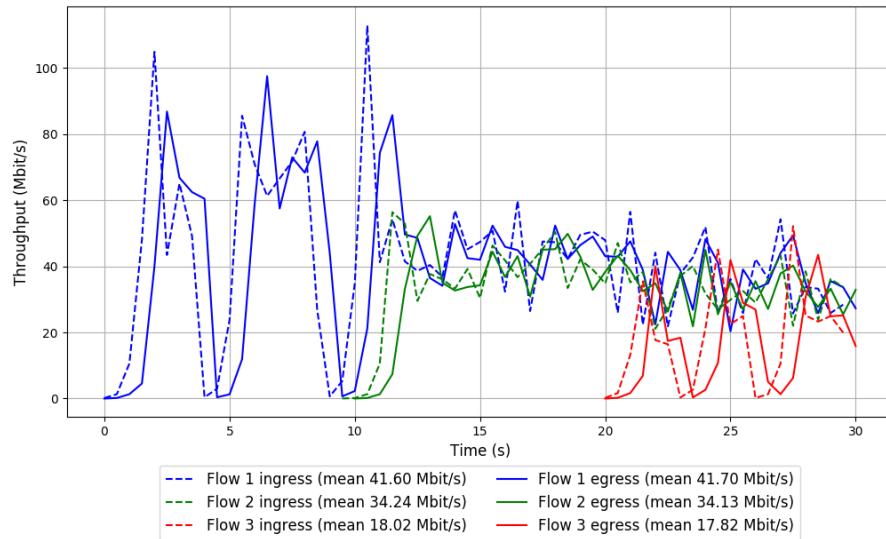


Run 3: Statistics of Verus

```
Start at: 2019-01-22 03:48:08
End at: 2019-01-22 03:48:38
Local clock offset: -7.818 ms
Remote clock offset: 2.127 ms

# Below is generated by plot.py at 2019-01-22 04:56:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.22 Mbit/s
95th percentile per-packet one-way delay: 247.584 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 41.70 Mbit/s
95th percentile per-packet one-way delay: 252.636 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 34.13 Mbit/s
95th percentile per-packet one-way delay: 233.817 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 17.82 Mbit/s
95th percentile per-packet one-way delay: 232.736 ms
Loss rate: 2.87%
```

Run 3: Report of Verus — Data Link

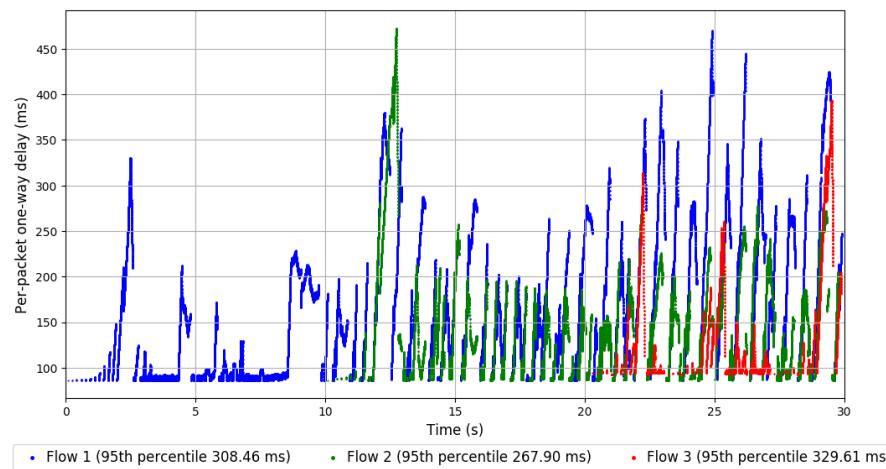
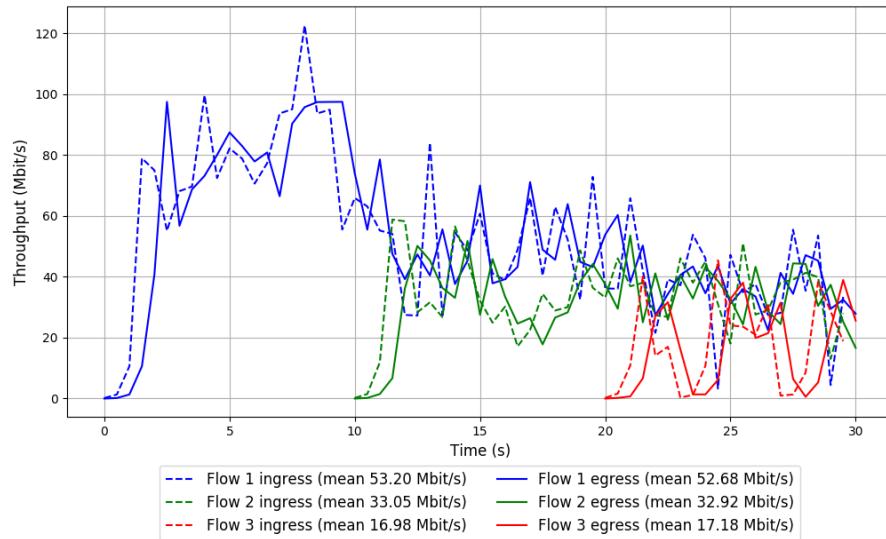


Run 4: Statistics of Verus

```
Start at: 2019-01-22 04:15:07
End at: 2019-01-22 04:15:37
Local clock offset: -6.463 ms
Remote clock offset: 6.897 ms

# Below is generated by plot.py at 2019-01-22 04:56:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.01 Mbit/s
95th percentile per-packet one-way delay: 305.761 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 52.68 Mbit/s
95th percentile per-packet one-way delay: 308.457 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 32.92 Mbit/s
95th percentile per-packet one-way delay: 267.897 ms
Loss rate: 1.83%
-- Flow 3:
Average throughput: 17.18 Mbit/s
95th percentile per-packet one-way delay: 329.609 ms
Loss rate: 0.88%
```

Run 4: Report of Verus — Data Link

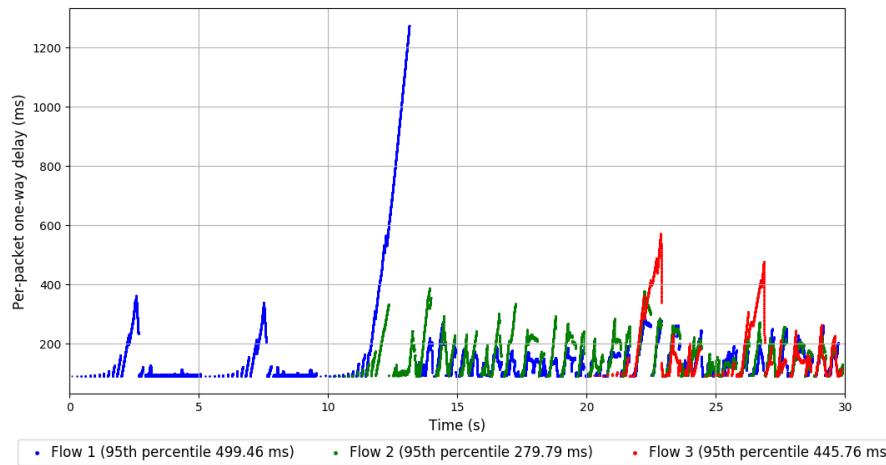
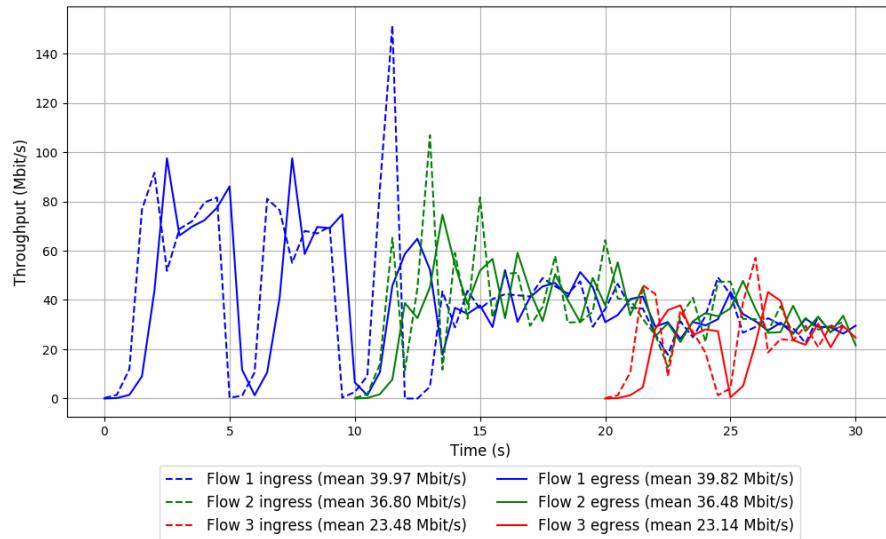


Run 5: Statistics of Verus

```
Start at: 2019-01-22 04:42:07
End at: 2019-01-22 04:42:37
Local clock offset: -7.23 ms
Remote clock offset: 1.398 ms

# Below is generated by plot.py at 2019-01-22 04:57:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.59 Mbit/s
95th percentile per-packet one-way delay: 358.352 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 39.82 Mbit/s
95th percentile per-packet one-way delay: 499.460 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 36.48 Mbit/s
95th percentile per-packet one-way delay: 279.787 ms
Loss rate: 1.71%
-- Flow 3:
Average throughput: 23.14 Mbit/s
95th percentile per-packet one-way delay: 445.762 ms
Loss rate: 3.64%
```

Run 5: Report of Verus — Data Link

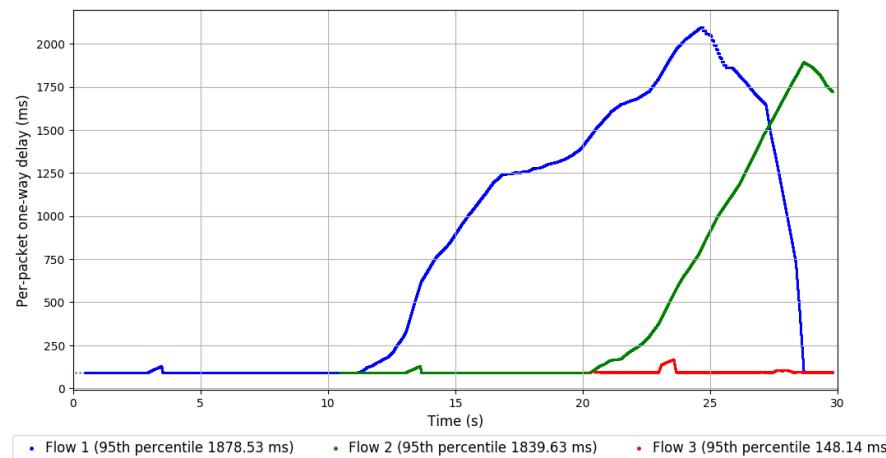
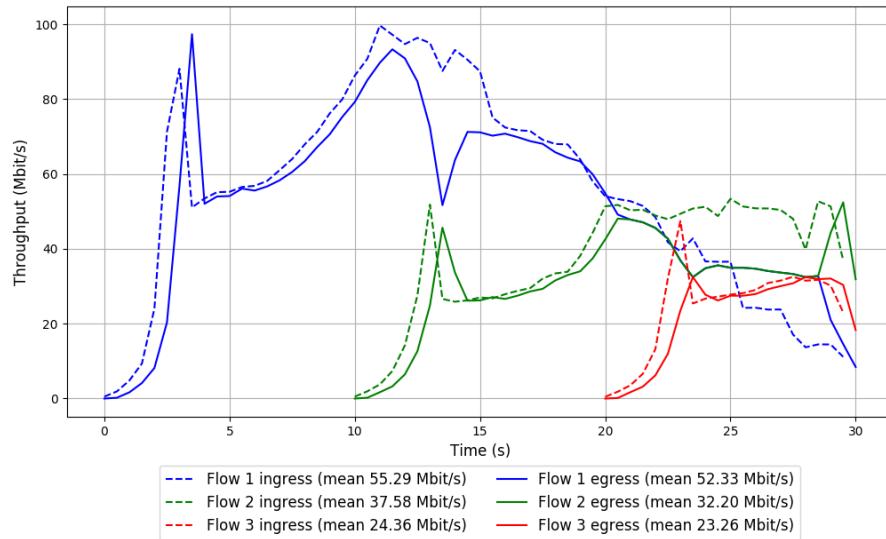


Run 1: Statistics of PCC-Vivace

```
Start at: 2019-01-22 02:41:13
End at: 2019-01-22 02:41:43
Local clock offset: -1.638 ms
Remote clock offset: 2.993 ms

# Below is generated by plot.py at 2019-01-22 04:57:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.27 Mbit/s
95th percentile per-packet one-way delay: 1851.934 ms
Loss rate: 8.52%
-- Flow 1:
Average throughput: 52.33 Mbit/s
95th percentile per-packet one-way delay: 1878.529 ms
Loss rate: 5.90%
-- Flow 2:
Average throughput: 32.20 Mbit/s
95th percentile per-packet one-way delay: 1839.628 ms
Loss rate: 15.06%
-- Flow 3:
Average throughput: 23.26 Mbit/s
95th percentile per-packet one-way delay: 148.136 ms
Loss rate: 6.19%
```

Run 1: Report of PCC-Vivace — Data Link

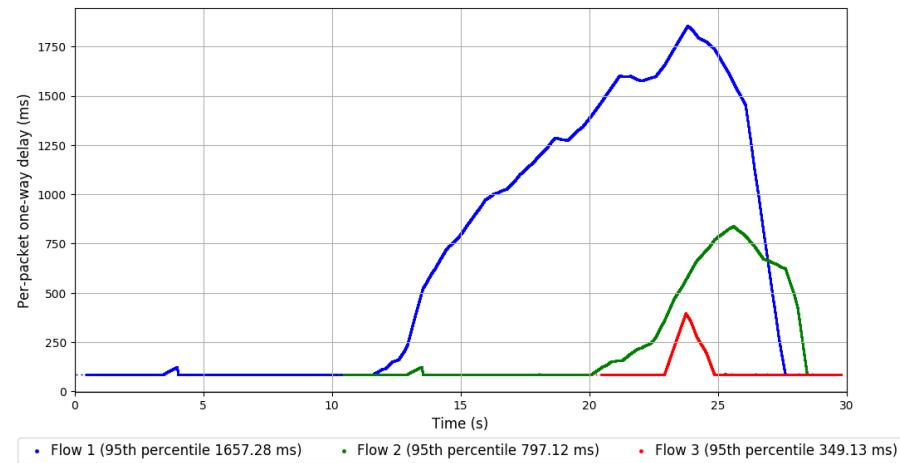
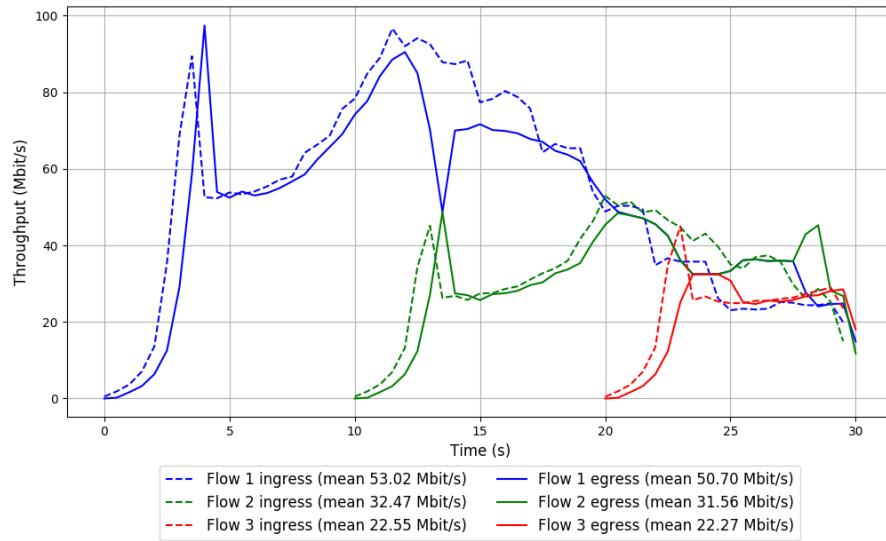


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-22 03:08:13
End at: 2019-01-22 03:08:43
Local clock offset: -1.868 ms
Remote clock offset: 9.155 ms

# Below is generated by plot.py at 2019-01-22 04:57:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.90 Mbit/s
95th percentile per-packet one-way delay: 1598.940 ms
Loss rate: 4.42%
-- Flow 1:
Average throughput: 50.70 Mbit/s
95th percentile per-packet one-way delay: 1657.277 ms
Loss rate: 4.93%
-- Flow 2:
Average throughput: 31.56 Mbit/s
95th percentile per-packet one-way delay: 797.116 ms
Loss rate: 3.64%
-- Flow 3:
Average throughput: 22.27 Mbit/s
95th percentile per-packet one-way delay: 349.127 ms
Loss rate: 2.99%
```

Run 2: Report of PCC-Vivace — Data Link

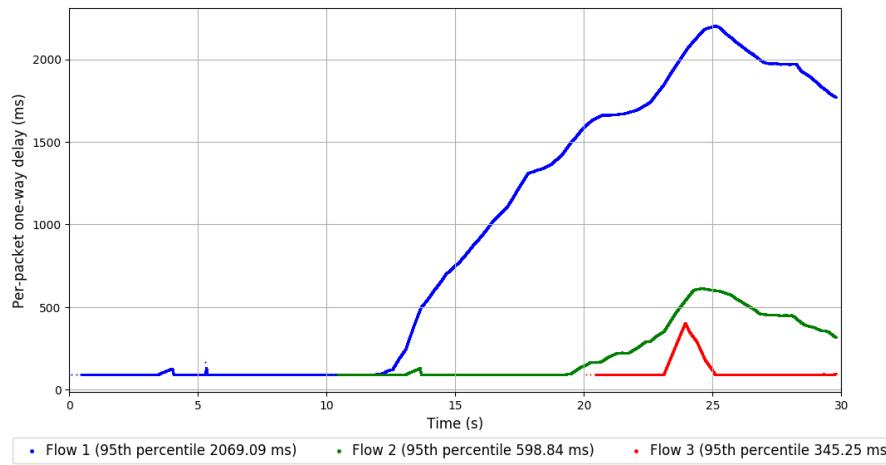
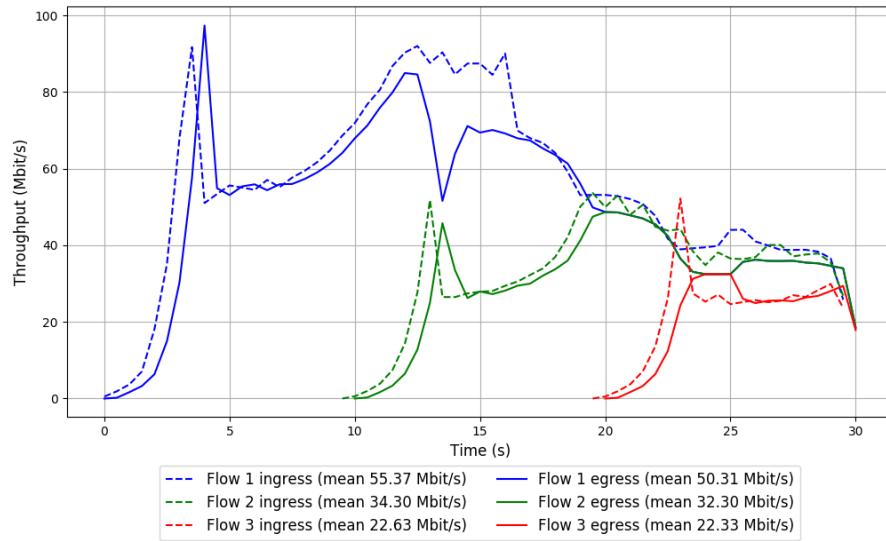


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-22 03:35:14
End at: 2019-01-22 03:35:44
Local clock offset: -7.294 ms
Remote clock offset: 2.39 ms

# Below is generated by plot.py at 2019-01-22 04:57:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.04 Mbit/s
95th percentile per-packet one-way delay: 1978.672 ms
Loss rate: 8.29%
-- Flow 1:
Average throughput: 50.31 Mbit/s
95th percentile per-packet one-way delay: 2069.090 ms
Loss rate: 9.66%
-- Flow 2:
Average throughput: 32.30 Mbit/s
95th percentile per-packet one-way delay: 598.840 ms
Loss rate: 6.66%
-- Flow 3:
Average throughput: 22.33 Mbit/s
95th percentile per-packet one-way delay: 345.253 ms
Loss rate: 3.08%
```

Run 3: Report of PCC-Vivace — Data Link

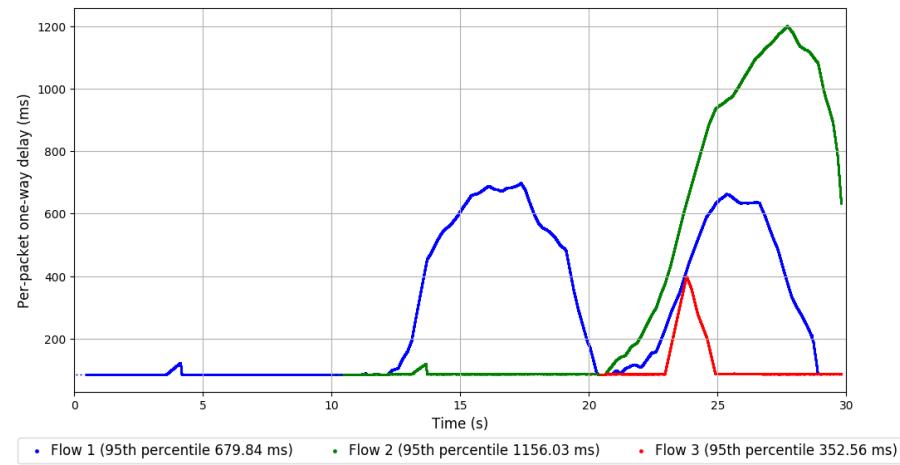
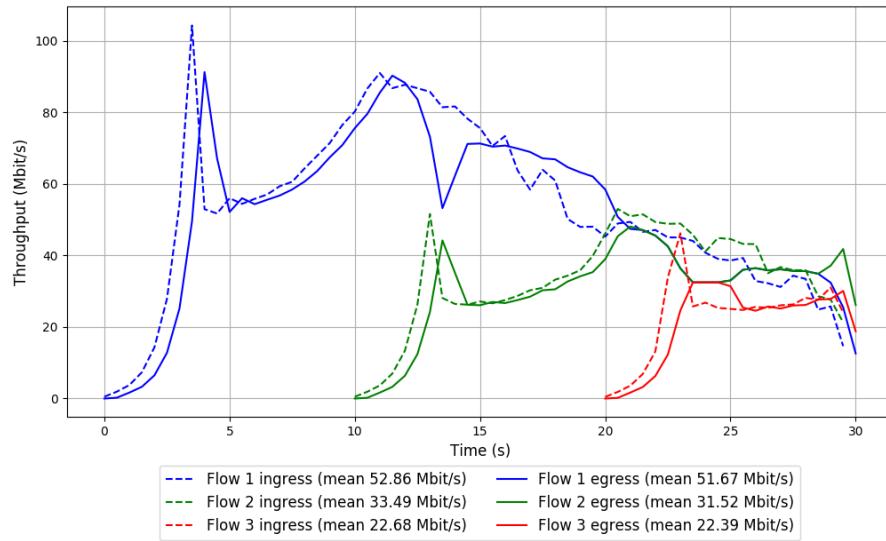


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-22 04:02:13
End at: 2019-01-22 04:02:43
Local clock offset: -7.241 ms
Remote clock offset: 6.75 ms

# Below is generated by plot.py at 2019-01-22 04:57:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.89 Mbit/s
95th percentile per-packet one-way delay: 1001.926 ms
Loss rate: 3.87%
-- Flow 1:
Average throughput: 51.67 Mbit/s
95th percentile per-packet one-way delay: 679.841 ms
Loss rate: 2.80%
-- Flow 2:
Average throughput: 31.52 Mbit/s
95th percentile per-packet one-way delay: 1156.033 ms
Loss rate: 6.71%
-- Flow 3:
Average throughput: 22.39 Mbit/s
95th percentile per-packet one-way delay: 352.564 ms
Loss rate: 3.00%
```

Run 4: Report of PCC-Vivace — Data Link

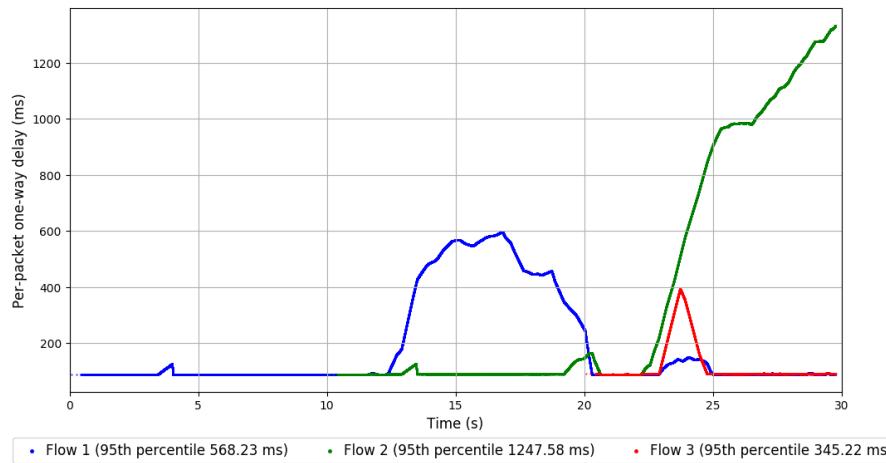
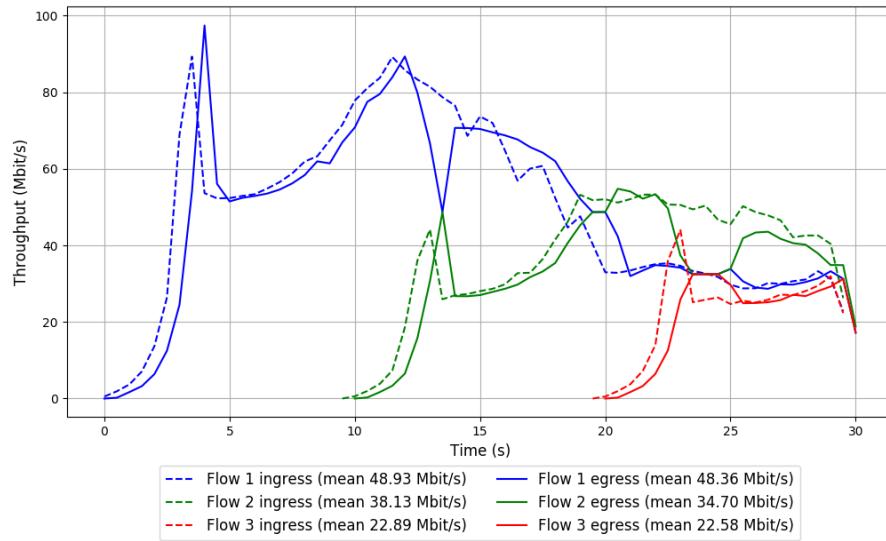


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-22 04:29:14
End at: 2019-01-22 04:29:44
Local clock offset: -6.299 ms
Remote clock offset: 4.948 ms

# Below is generated by plot.py at 2019-01-22 04:57:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.76 Mbit/s
95th percentile per-packet one-way delay: 997.297 ms
Loss rate: 4.35%
-- Flow 1:
Average throughput: 48.36 Mbit/s
95th percentile per-packet one-way delay: 568.226 ms
Loss rate: 1.72%
-- Flow 2:
Average throughput: 34.70 Mbit/s
95th percentile per-packet one-way delay: 1247.577 ms
Loss rate: 9.79%
-- Flow 3:
Average throughput: 22.58 Mbit/s
95th percentile per-packet one-way delay: 345.221 ms
Loss rate: 3.12%
```

Run 5: Report of PCC-Vivace — Data Link

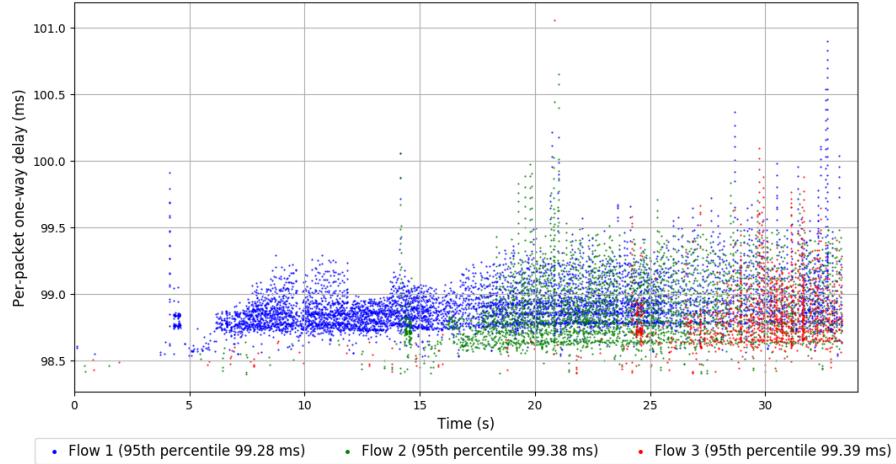
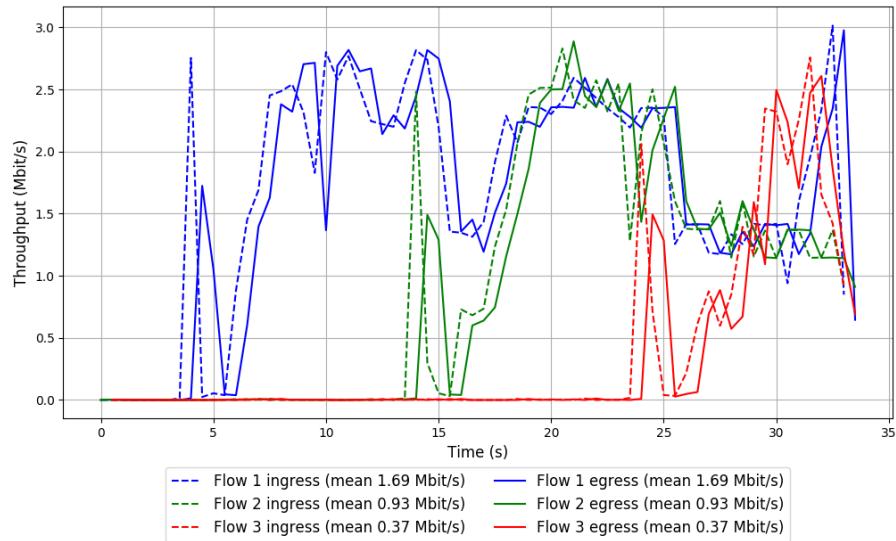


Run 1: Statistics of WebRTC media

```
Start at: 2019-01-22 02:48:59
End at: 2019-01-22 02:49:29
Local clock offset: -1.679 ms
Remote clock offset: 2.893 ms

# Below is generated by plot.py at 2019-01-22 04:57:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.97 Mbit/s
95th percentile per-packet one-way delay: 99.334 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 1.69 Mbit/s
95th percentile per-packet one-way delay: 99.281 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 99.379 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 99.394 ms
Loss rate: 1.89%
```

Run 1: Report of WebRTC media — Data Link

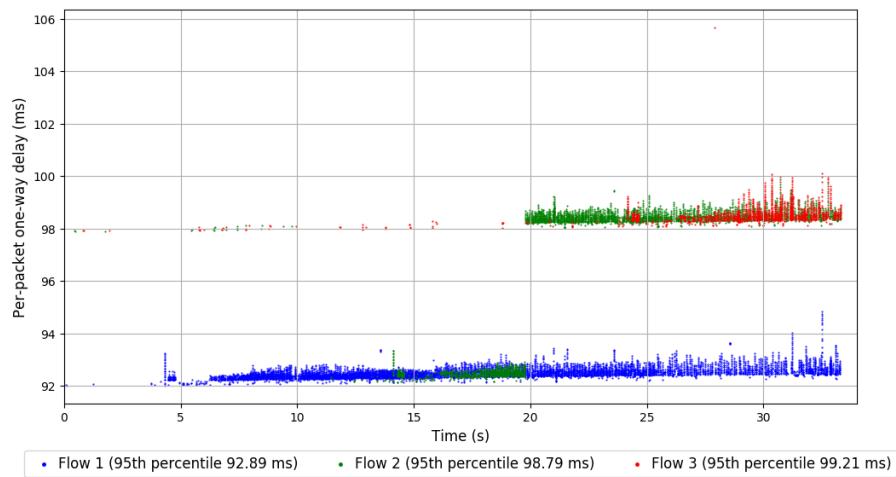
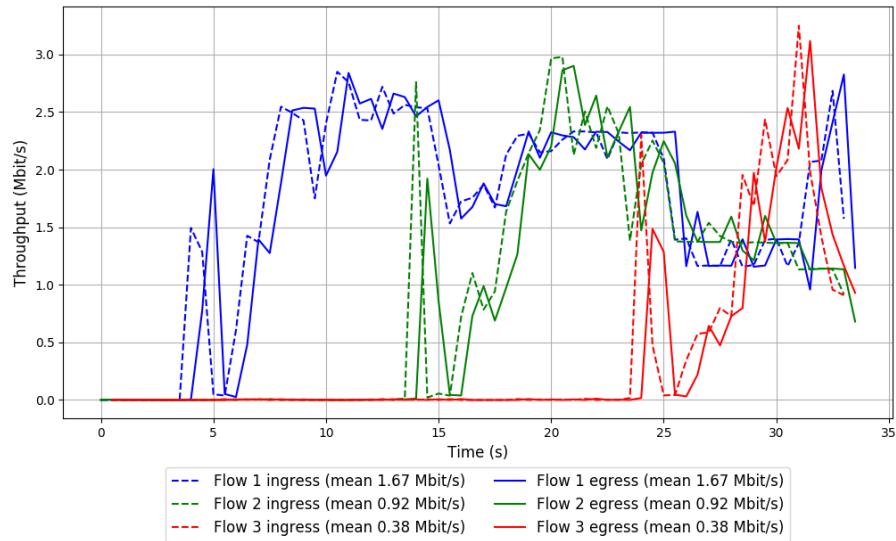


Run 2: Statistics of WebRTC media

```
Start at: 2019-01-22 03:15:59
End at: 2019-01-22 03:16:29
Local clock offset: -2.461 ms
Remote clock offset: 2.35 ms

# Below is generated by plot.py at 2019-01-22 04:57:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.94 Mbit/s
95th percentile per-packet one-way delay: 98.725 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 1.67 Mbit/s
95th percentile per-packet one-way delay: 92.889 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.92 Mbit/s
95th percentile per-packet one-way delay: 98.793 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 99.207 ms
Loss rate: 0.94%
```

Run 2: Report of WebRTC media — Data Link

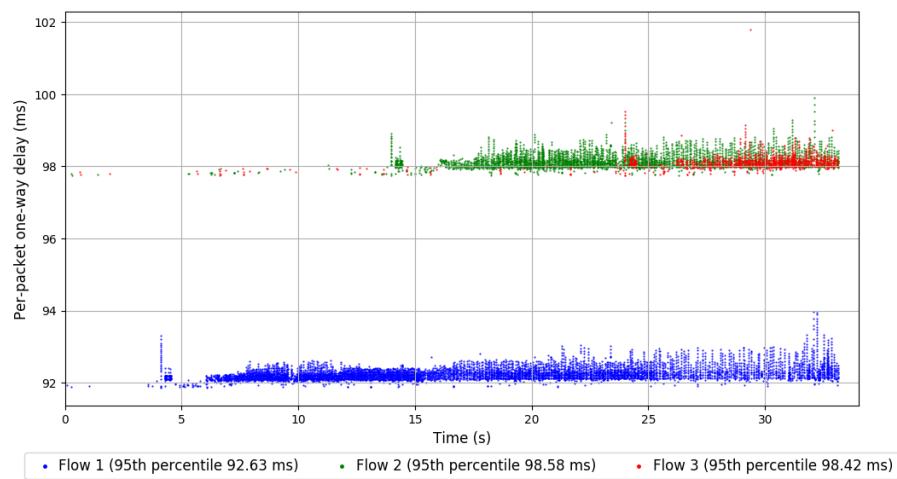
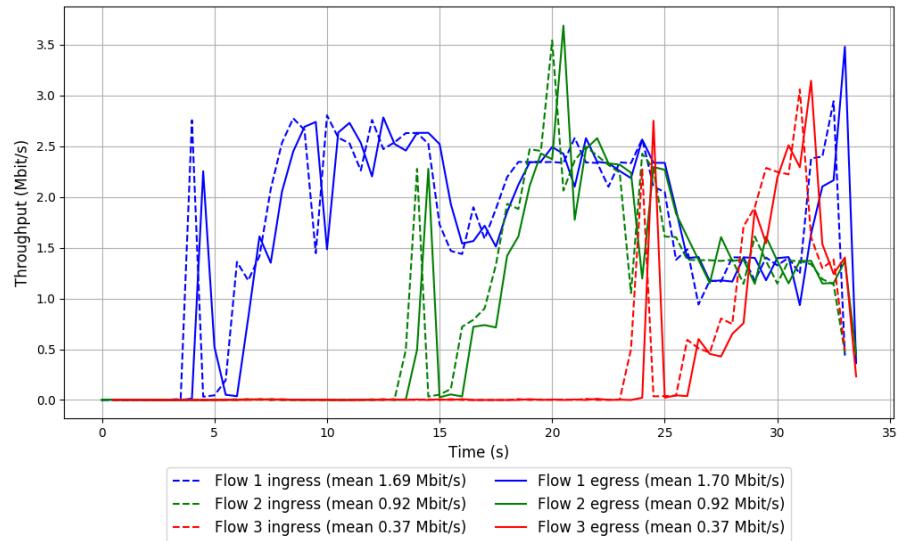


Run 3: Statistics of WebRTC media

```
Start at: 2019-01-22 03:42:59
End at: 2019-01-22 03:43:29
Local clock offset: -8.799 ms
Remote clock offset: 1.073 ms

# Below is generated by plot.py at 2019-01-22 04:57:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.98 Mbit/s
95th percentile per-packet one-way delay: 98.396 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 1.70 Mbit/s
95th percentile per-packet one-way delay: 92.630 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.92 Mbit/s
95th percentile per-packet one-way delay: 98.577 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 98.421 ms
Loss rate: 1.92%
```

Run 3: Report of WebRTC media — Data Link

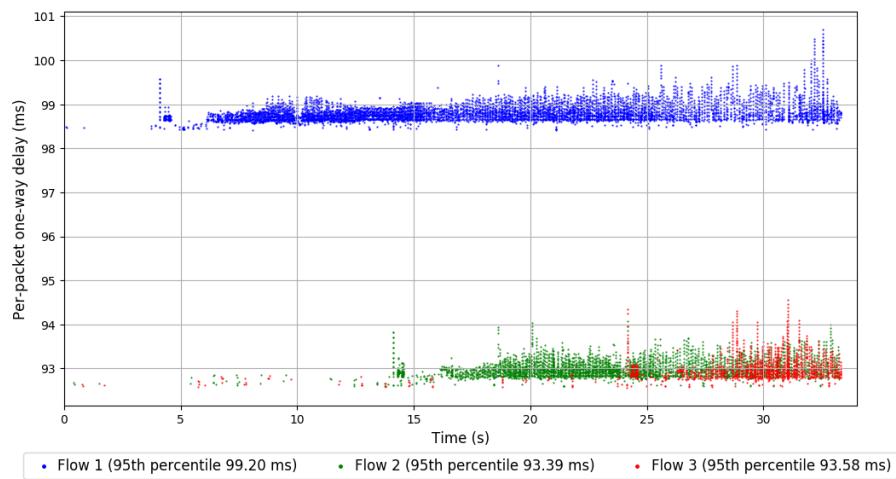
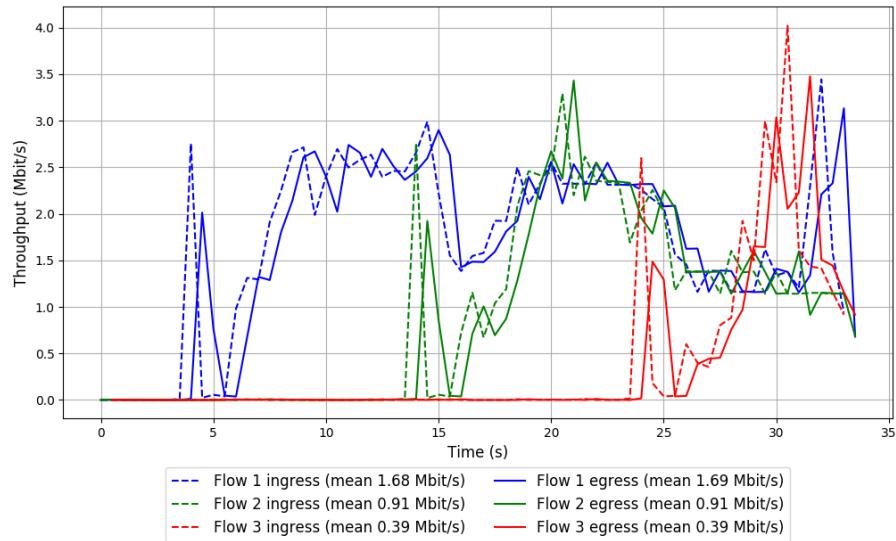


Run 4: Statistics of WebRTC media

```
Start at: 2019-01-22 04:09:58
End at: 2019-01-22 04:10:28
Local clock offset: -6.417 ms
Remote clock offset: 0.892 ms

# Below is generated by plot.py at 2019-01-22 04:57:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.97 Mbit/s
95th percentile per-packet one-way delay: 99.105 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 1.69 Mbit/s
95th percentile per-packet one-way delay: 99.199 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 0.91 Mbit/s
95th percentile per-packet one-way delay: 93.386 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 93.582 ms
Loss rate: 0.91%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-01-22 04:36:59
End at: 2019-01-22 04:37:29
Local clock offset: -6.367 ms
Remote clock offset: 2.449 ms

# Below is generated by plot.py at 2019-01-22 04:57:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.91 Mbit/s
95th percentile per-packet one-way delay: 92.307 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 1.69 Mbit/s
95th percentile per-packet one-way delay: 91.646 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 92.503 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 91.501 ms
Loss rate: 1.92%
```

Run 5: Report of WebRTC media — Data Link

