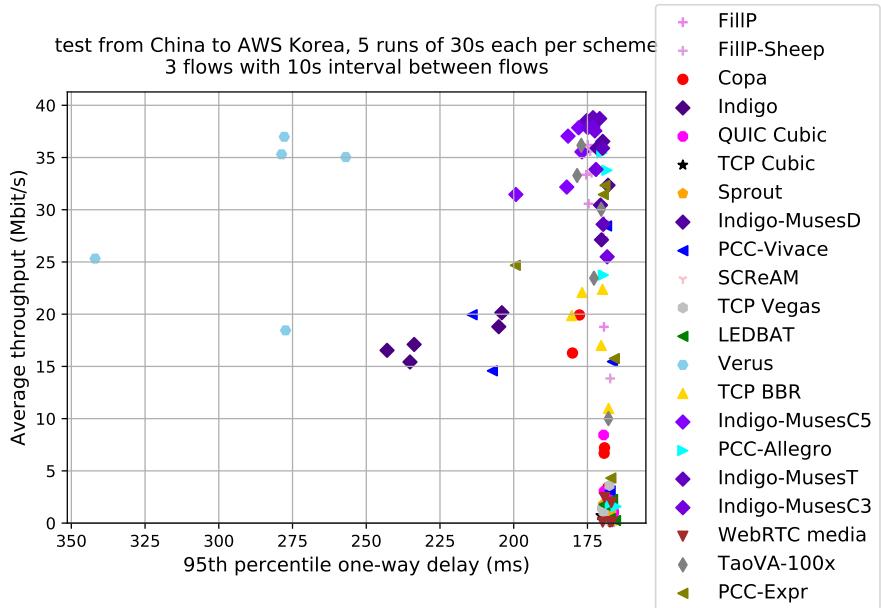
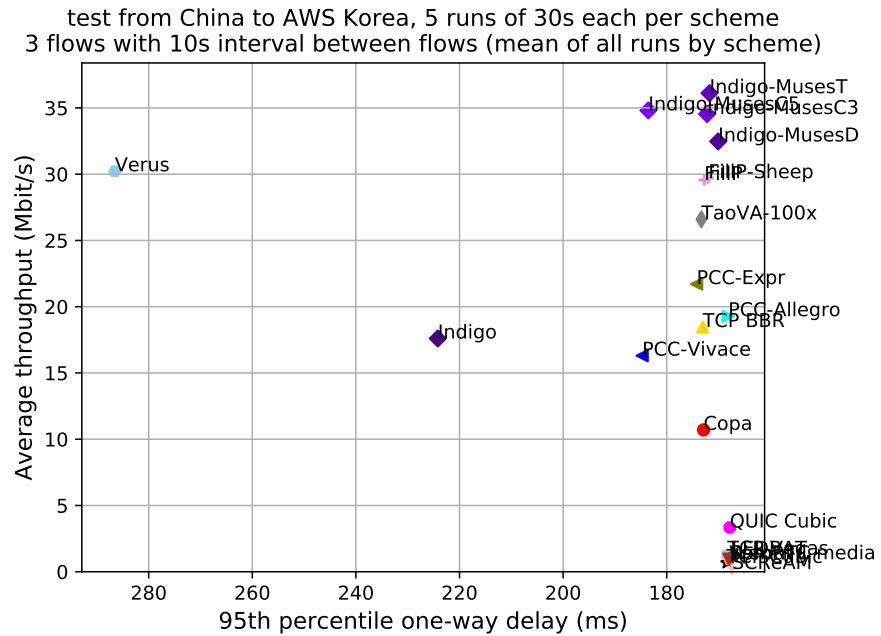


Pantheon Report

Generated at 2019-01-26 02:35:27 (UTC).
Data path: China on `eno1` (*remote*) → AWS Korea 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 `ntp.nict.jp` 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 @ 0b8e9a949603c3842368430acf469eec3b941f9f  
third_party/fillp @ d6da1459332fceef56963885d7eba17e6a32d4519  
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9  
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4  
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d  
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf  
third_party/muses @ d9c5ea33091330aca25ecd105ab2db6d34d5c40d  
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



4

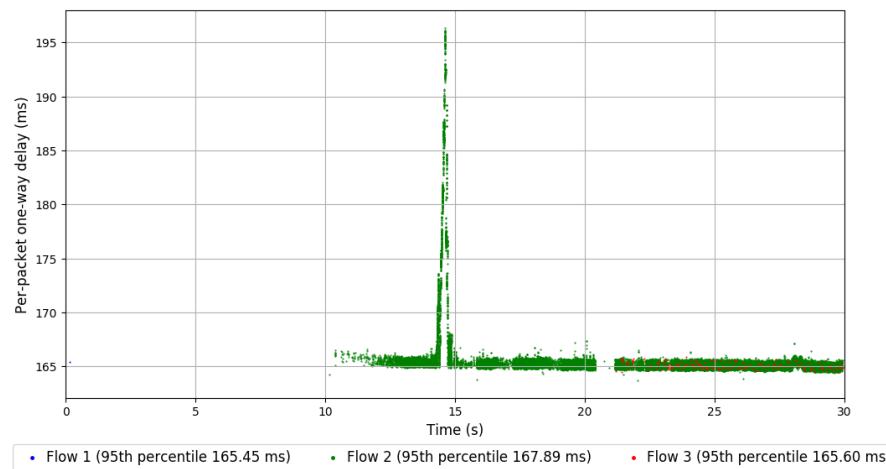
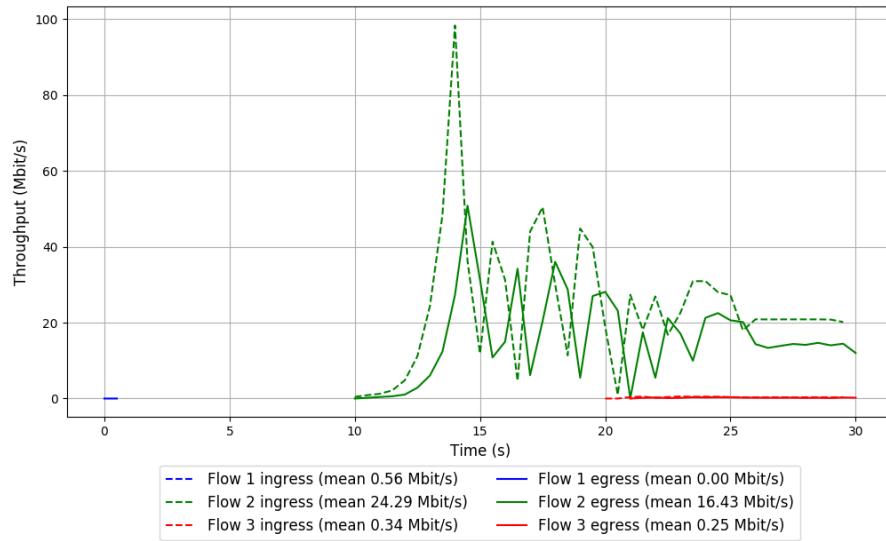
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	3.40	19.42	6.69	166.71	171.63	167.94	84.14	40.51	30.20
Copa	5	1.46	10.91	6.17	166.00	173.25	171.31	58.35	16.96	22.39
TCP Cubic	5	0.01	0.68	0.67	167.40	168.42	168.43	98.74	7.92	10.01
FillP	5	20.86	9.01	8.35	173.06	171.02	169.37	20.25	23.81	22.44
FillP-Sheep	5	21.44	9.49	6.03	172.06	171.10	169.00	13.84	17.21	15.81
Indigo	5	86.91	22.75	7.81	167.40	225.34	217.18	34.90	65.24	70.85
Indigo-MusesC3	5	20.23	18.95	8.82	173.19	170.58	169.98	12.07	13.75	13.73
Indigo-MusesC5	5	24.07	13.73	7.84	182.07	182.44	173.39	23.61	21.73	15.41
Indigo-MusesD	5	23.04	14.04	1.86	169.96	169.36	168.74	22.70	23.84	23.07
Indigo-MusesT	5	27.22	10.52	8.55	171.83	170.27	172.09	17.65	13.83	12.65
LEDBAT	5	0.64	0.66	0.66	167.40	167.52	167.27	6.76	7.15	8.70
PCC-Allegro	5	11.33	8.71	6.74	167.52	167.77	181.17	41.62	16.84	26.80
PCC-Expr	5	11.54	12.70	5.35	168.39	175.40	168.25	23.11	14.62	14.36
QUIC Cubic	5	1.58	1.30	2.73	167.77	167.60	167.85	5.42	5.37	6.97
SCReAM	5	0.10	0.11	0.13	167.45	167.29	167.19	6.11	7.06	8.25
Sprout	5	0.52	0.52	0.54	167.90	167.63	167.70	8.69	9.15	8.23
TaoVA-100x	5	14.85	10.21	15.23	172.13	172.90	176.19	13.95	15.63	15.01
TCP Vegas	5	0.55	0.76	0.71	167.76	168.28	168.27	29.24	9.83	9.58
Verus	5	27.98	7.00	8.49	284.56	263.28	291.56	32.74	37.52	42.35
PCC-Vivace	5	6.51	8.48	12.95	168.59	168.46	191.69	6.83	7.59	12.35
WebRTC media	5	0.86	0.05	0.05	167.45	168.31	167.63	45.26	7.57	10.20

Run 1: Statistics of TCP BBR

```
Start at: 2019-01-25 19:11:35
End at: 2019-01-25 19:12:05
Local clock offset: 14.675 ms
Remote clock offset: 12.265 ms

# Below is generated by plot.py at 2019-01-26 02:31:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.98 Mbit/s
95th percentile per-packet one-way delay: 167.842 ms
Loss rate: 33.15%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 165.446 ms
Loss rate: 99.37%
-- Flow 2:
Average throughput: 16.43 Mbit/s
95th percentile per-packet one-way delay: 167.890 ms
Loss rate: 33.11%
-- Flow 3:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 165.604 ms
Loss rate: 36.14%
```

Run 1: Report of TCP BBR — Data Link

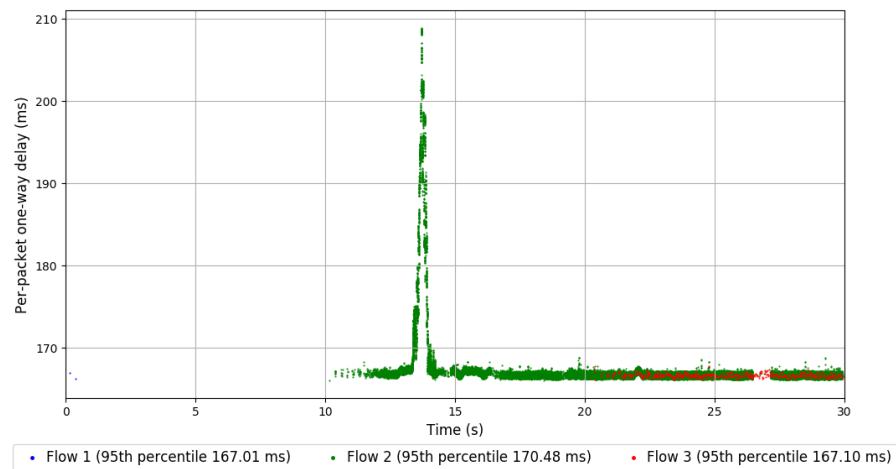
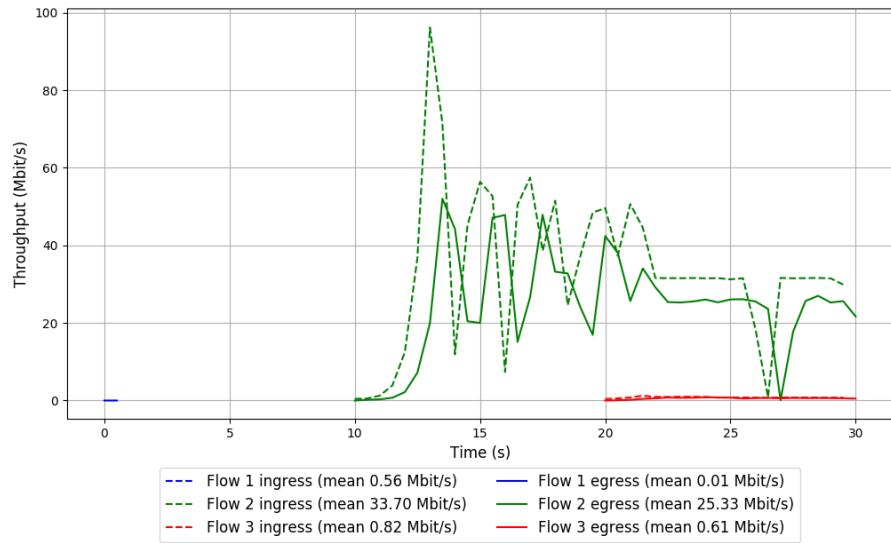


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-25 21:00:00
End at: 2019-01-25 21:00:30
Local clock offset: 0.845 ms
Remote clock offset: -3.098 ms

# Below is generated by plot.py at 2019-01-26 02:31:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.01 Mbit/s
95th percentile per-packet one-way delay: 170.336 ms
Loss rate: 25.71%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 167.010 ms
Loss rate: 98.79%
-- Flow 2:
Average throughput: 25.33 Mbit/s
95th percentile per-packet one-way delay: 170.484 ms
Loss rate: 25.68%
-- Flow 3:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 167.096 ms
Loss rate: 27.03%
```

Run 2: Report of TCP BBR — Data Link

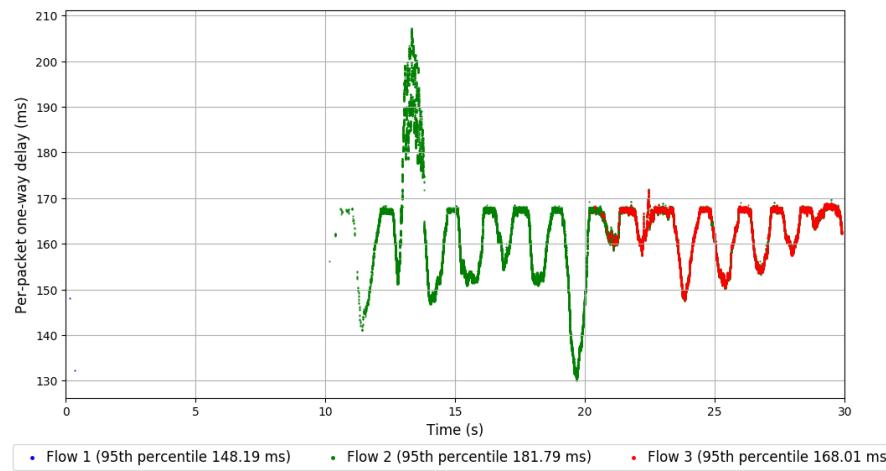
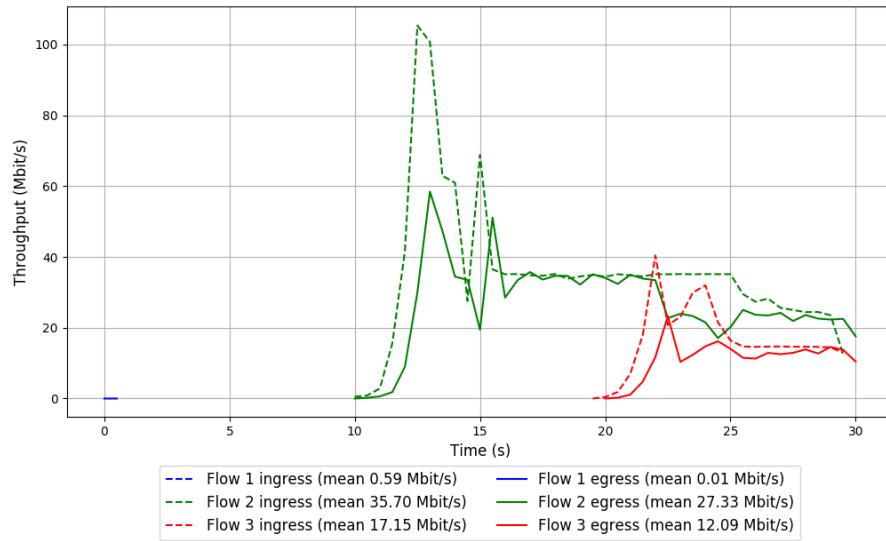


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-25 22:43:28
End at: 2019-01-25 22:43:58
Local clock offset: 5.047 ms
Remote clock offset: 0.066 ms

# Below is generated by plot.py at 2019-01-26 02:31:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.08 Mbit/s
95th percentile per-packet one-way delay: 176.812 ms
Loss rate: 24.93%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 148.191 ms
Loss rate: 98.79%
-- Flow 2:
Average throughput: 27.33 Mbit/s
95th percentile per-packet one-way delay: 181.788 ms
Loss rate: 23.42%
-- Flow 3:
Average throughput: 12.09 Mbit/s
95th percentile per-packet one-way delay: 168.006 ms
Loss rate: 31.08%
```

Run 3: Report of TCP BBR — Data Link

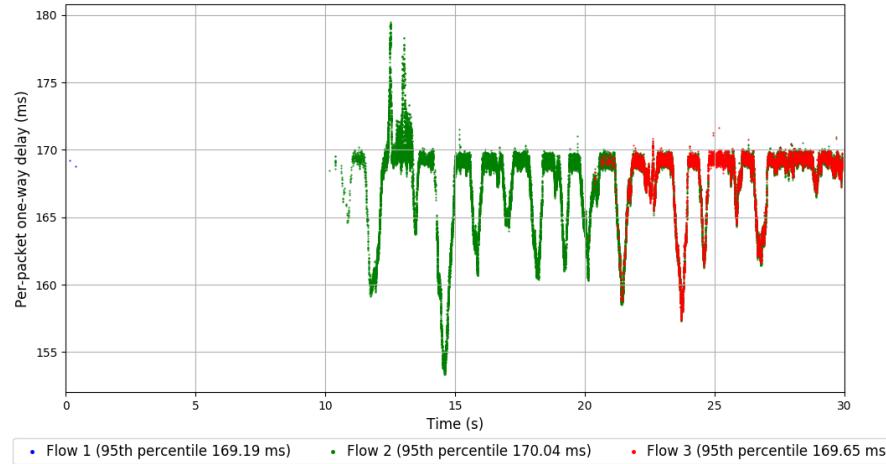
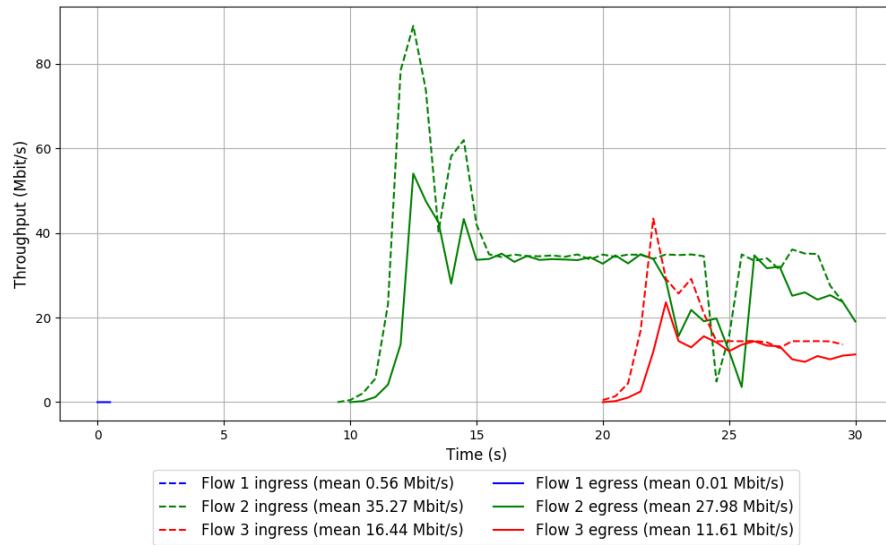


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-26 00:37:50
End at: 2019-01-26 00:38:20
Local clock offset: -0.006 ms
Remote clock offset: -1.201 ms

# Below is generated by plot.py at 2019-01-26 02:31:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.38 Mbit/s
95th percentile per-packet one-way delay: 169.894 ms
Loss rate: 23.35%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 169.192 ms
Loss rate: 98.79%
-- Flow 2:
Average throughput: 27.98 Mbit/s
95th percentile per-packet one-way delay: 170.042 ms
Loss rate: 21.56%
-- Flow 3:
Average throughput: 11.61 Mbit/s
95th percentile per-packet one-way delay: 169.646 ms
Loss rate: 30.99%
```

Run 4: Report of TCP BBR — Data Link

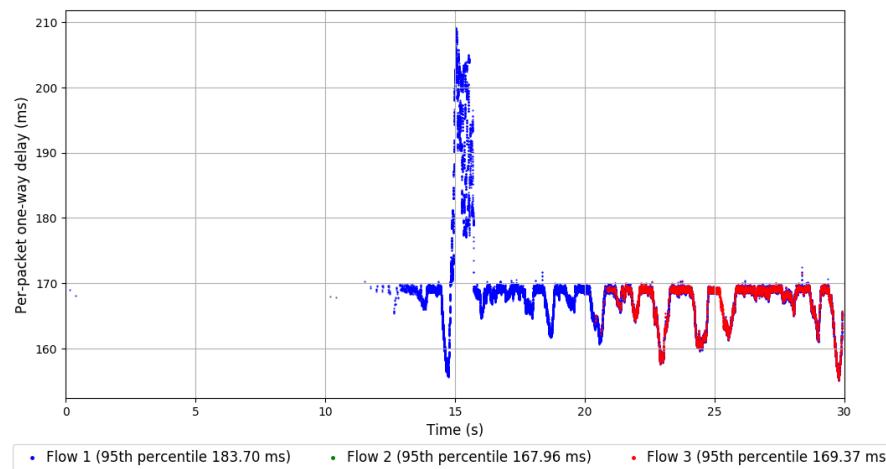
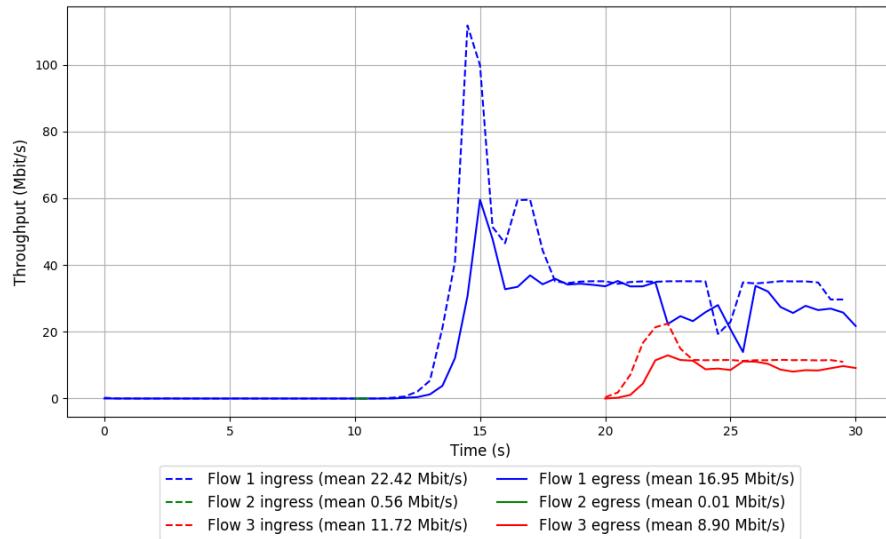


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-26 01:32:56
End at: 2019-01-26 01:33:26
Local clock offset: 6.562 ms
Remote clock offset: -0.377 ms

# Below is generated by plot.py at 2019-01-26 02:31:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.87 Mbit/s
95th percentile per-packet one-way delay: 180.343 ms
Loss rate: 25.09%
-- Flow 1:
Average throughput: 16.95 Mbit/s
95th percentile per-packet one-way delay: 183.697 ms
Loss rate: 24.96%
-- Flow 2:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 167.963 ms
Loss rate: 98.79%
-- Flow 3:
Average throughput: 8.90 Mbit/s
95th percentile per-packet one-way delay: 169.373 ms
Loss rate: 25.75%
```

Run 5: Report of TCP BBR — Data Link

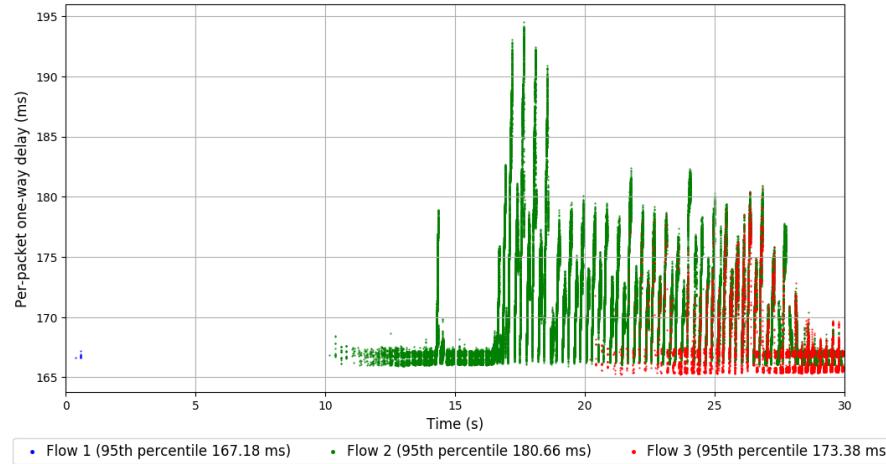
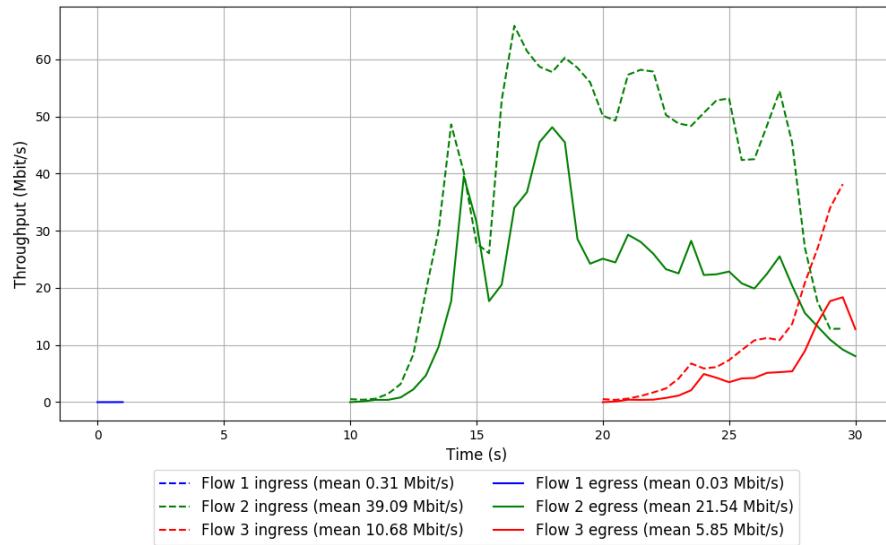


Run 1: Statistics of Copa

```
Start at: 2019-01-25 19:43:17
End at: 2019-01-25 19:43:47
Local clock offset: 3.0 ms
Remote clock offset: -15.255 ms

# Below is generated by plot.py at 2019-01-26 02:31:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.28 Mbit/s
95th percentile per-packet one-way delay: 180.075 ms
Loss rate: 45.67%
-- Flow 1:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 167.181 ms
Loss rate: 95.60%
-- Flow 2:
Average throughput: 21.54 Mbit/s
95th percentile per-packet one-way delay: 180.659 ms
Loss rate: 45.55%
-- Flow 3:
Average throughput: 5.85 Mbit/s
95th percentile per-packet one-way delay: 173.383 ms
Loss rate: 46.46%
```

Run 1: Report of Copa — Data Link

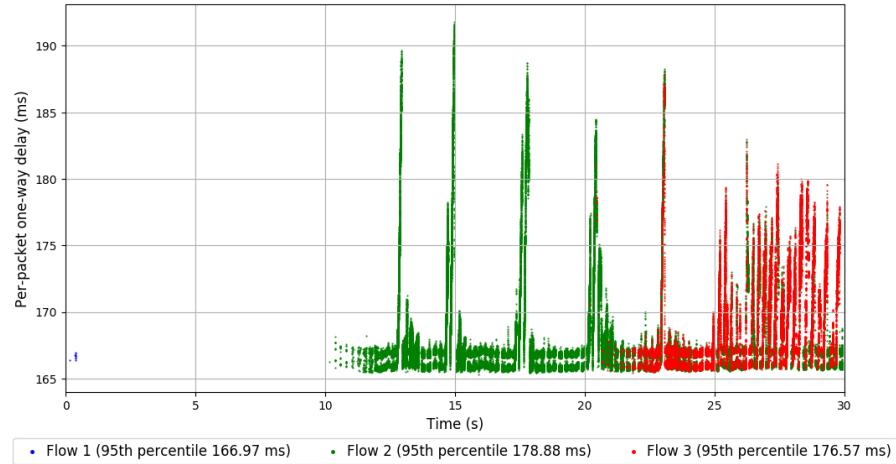
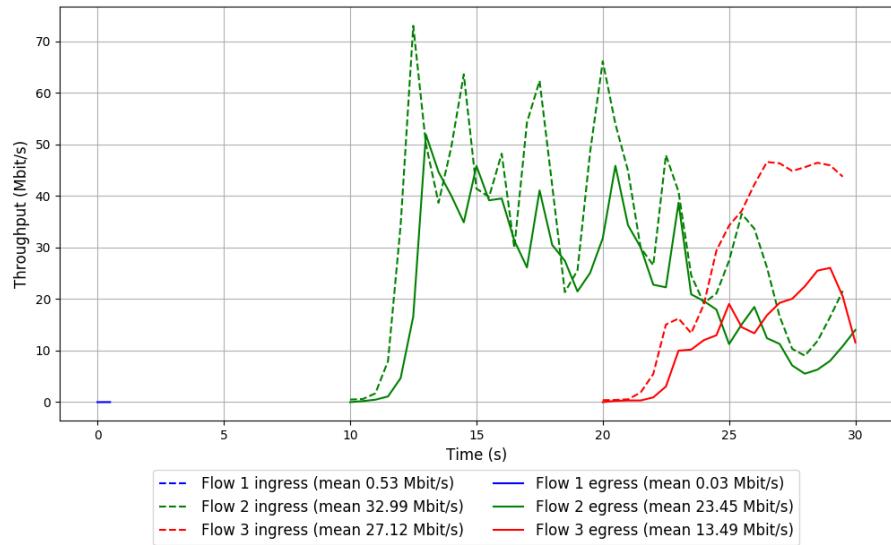


Run 2: Statistics of Copa

```
Start at: 2019-01-25 21:31:37
End at: 2019-01-25 21:32:07
Local clock offset: 1.796 ms
Remote clock offset: -2.343 ms

# Below is generated by plot.py at 2019-01-26 02:31:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.93 Mbit/s
95th percentile per-packet one-way delay: 177.705 ms
Loss rate: 35.99%
-- Flow 1:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 166.975 ms
Loss rate: 94.60%
-- Flow 2:
Average throughput: 23.45 Mbit/s
95th percentile per-packet one-way delay: 178.884 ms
Loss rate: 29.69%
-- Flow 3:
Average throughput: 13.49 Mbit/s
95th percentile per-packet one-way delay: 176.566 ms
Loss rate: 51.51%
```

Run 2: Report of Copa — Data Link

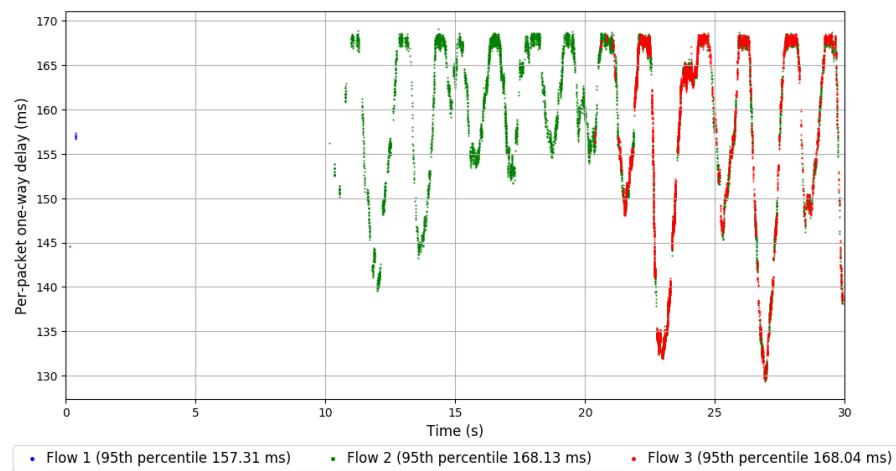
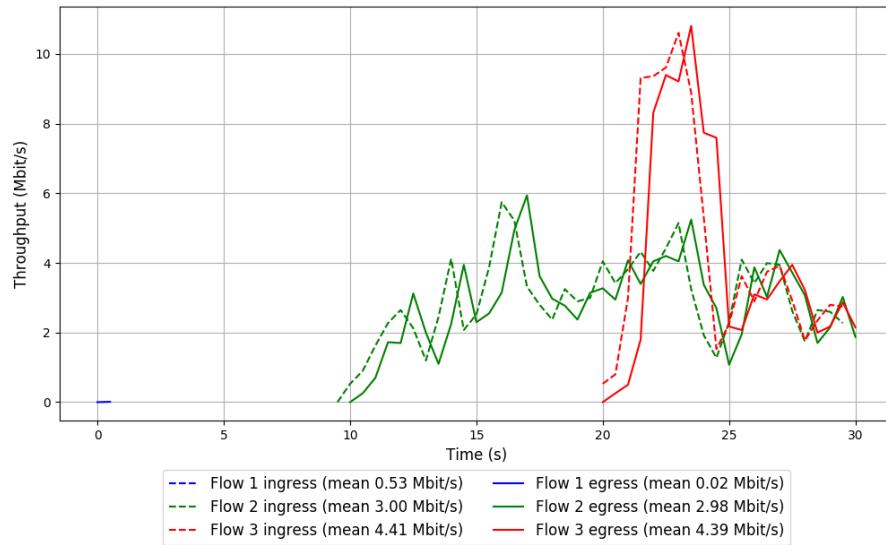


Run 3: Statistics of Copa

```
Start at: 2019-01-25 23:49:00
End at: 2019-01-25 23:49:30
Local clock offset: 16.047 ms
Remote clock offset: -1.225 ms

# Below is generated by plot.py at 2019-01-26 02:31:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.41 Mbit/s
95th percentile per-packet one-way delay: 168.095 ms
Loss rate: 2.26%
-- Flow 1:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 157.314 ms
Loss rate: 95.46%
-- Flow 2:
Average throughput: 2.98 Mbit/s
95th percentile per-packet one-way delay: 168.131 ms
Loss rate: 1.91%
-- Flow 3:
Average throughput: 4.39 Mbit/s
95th percentile per-packet one-way delay: 168.045 ms
Loss rate: 2.50%
```

Run 3: Report of Copa — Data Link

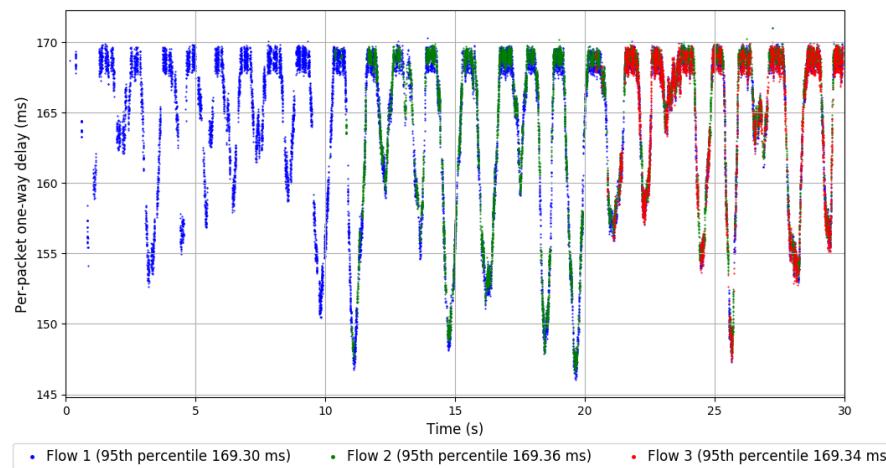
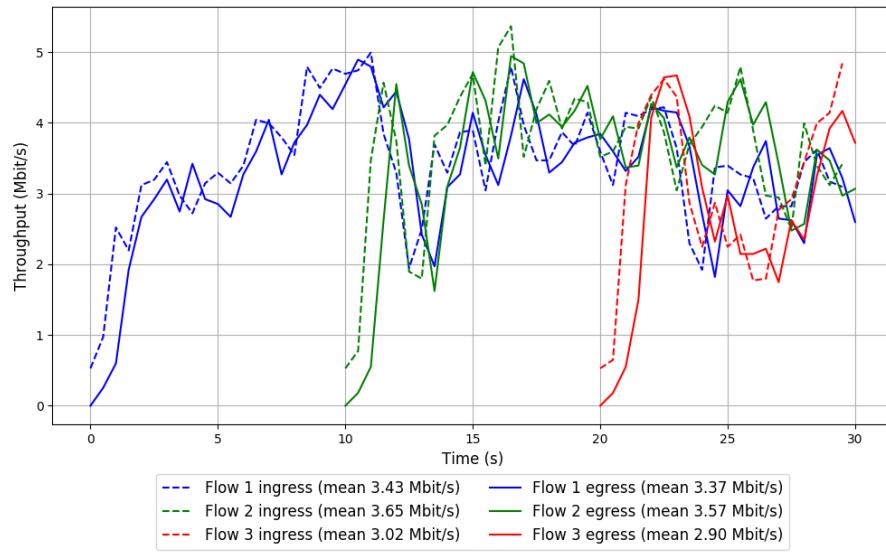


Run 4: Statistics of Copa

```
Start at: 2019-01-26 00:57:40
End at: 2019-01-26 00:58:10
Local clock offset: -0.215 ms
Remote clock offset: -1.373 ms

# Below is generated by plot.py at 2019-01-26 02:31:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.69 Mbit/s
95th percentile per-packet one-way delay: 169.333 ms
Loss rate: 3.22%
-- Flow 1:
Average throughput: 3.37 Mbit/s
95th percentile per-packet one-way delay: 169.296 ms
Loss rate: 2.50%
-- Flow 2:
Average throughput: 3.57 Mbit/s
95th percentile per-packet one-way delay: 169.363 ms
Loss rate: 3.07%
-- Flow 3:
Average throughput: 2.90 Mbit/s
95th percentile per-packet one-way delay: 169.336 ms
Loss rate: 6.07%
```

Run 4: Report of Copa — Data Link

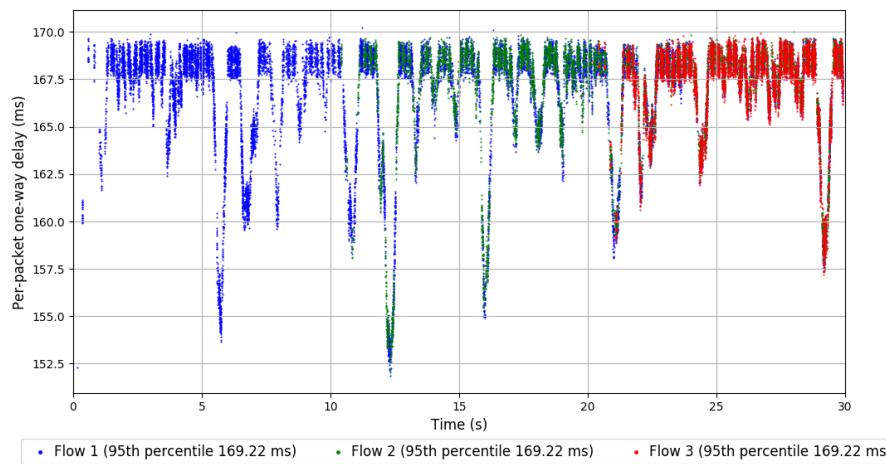
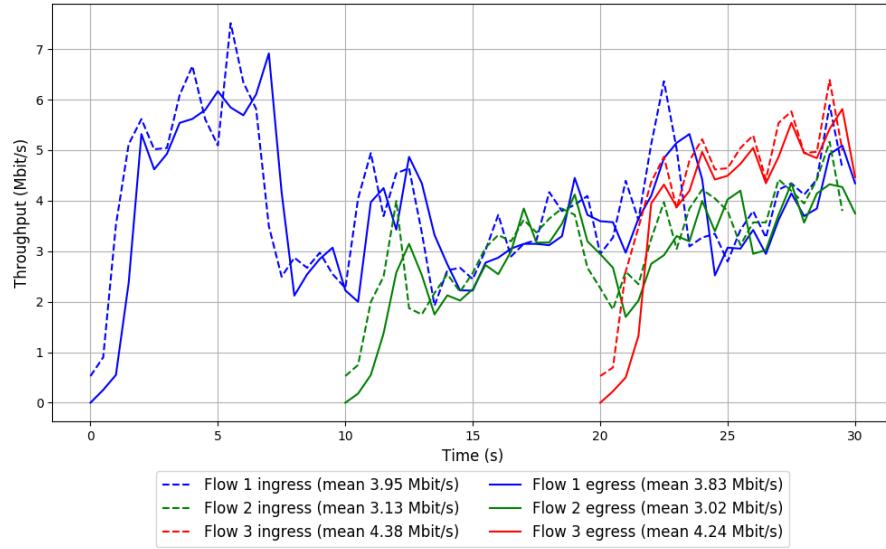


Run 5: Statistics of Copa

```
Start at: 2019-01-26 01:53:13
End at: 2019-01-26 01:53:43
Local clock offset: 2.671 ms
Remote clock offset: -0.739 ms

# Below is generated by plot.py at 2019-01-26 02:31:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.21 Mbit/s
95th percentile per-packet one-way delay: 169.219 ms
Loss rate: 4.23%
-- Flow 1:
Average throughput: 3.83 Mbit/s
95th percentile per-packet one-way delay: 169.218 ms
Loss rate: 3.60%
-- Flow 2:
Average throughput: 3.02 Mbit/s
95th percentile per-packet one-way delay: 169.219 ms
Loss rate: 4.59%
-- Flow 3:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 169.220 ms
Loss rate: 5.42%
```

Run 5: Report of Copa — Data Link

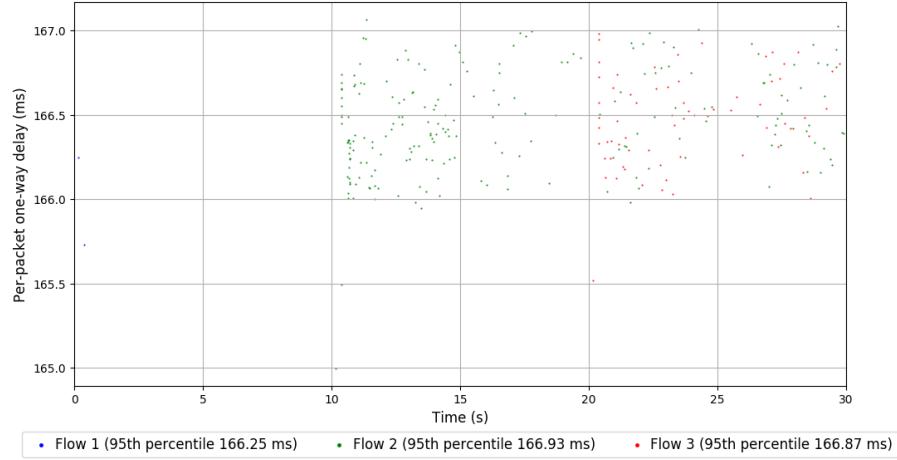
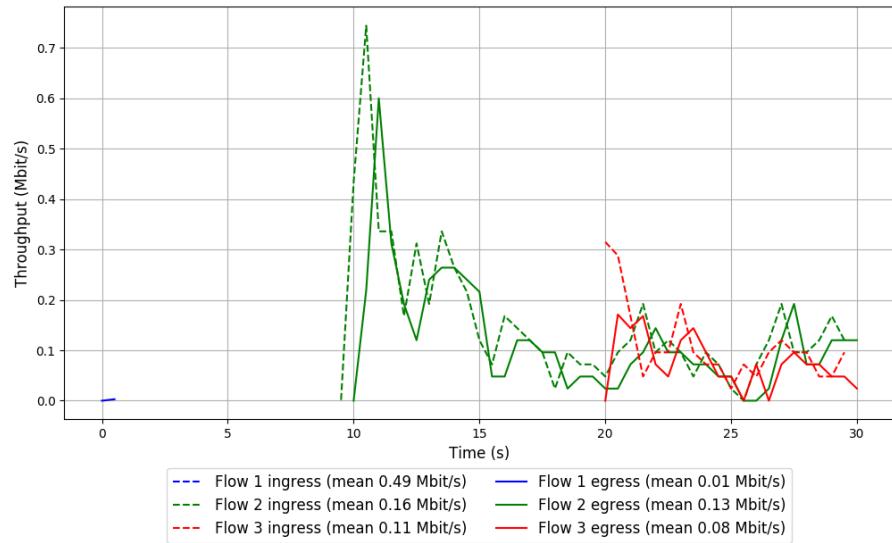


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-01-25 20:37:24
End at: 2019-01-25 20:37:54
Local clock offset: 1.669 ms
Remote clock offset: -3.766 ms

# Below is generated by plot.py at 2019-01-26 02:31:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 166.923 ms
Loss rate: 25.32%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 166.249 ms
Loss rate: 98.66%
-- Flow 2:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 166.929 ms
Loss rate: 21.66%
-- Flow 3:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 166.873 ms
Loss rate: 28.53%
```

Run 1: Report of TCP Cubic — Data Link

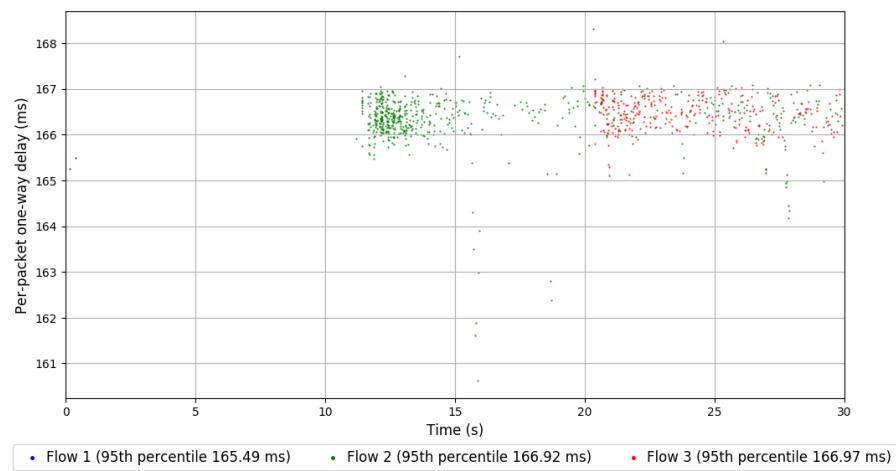
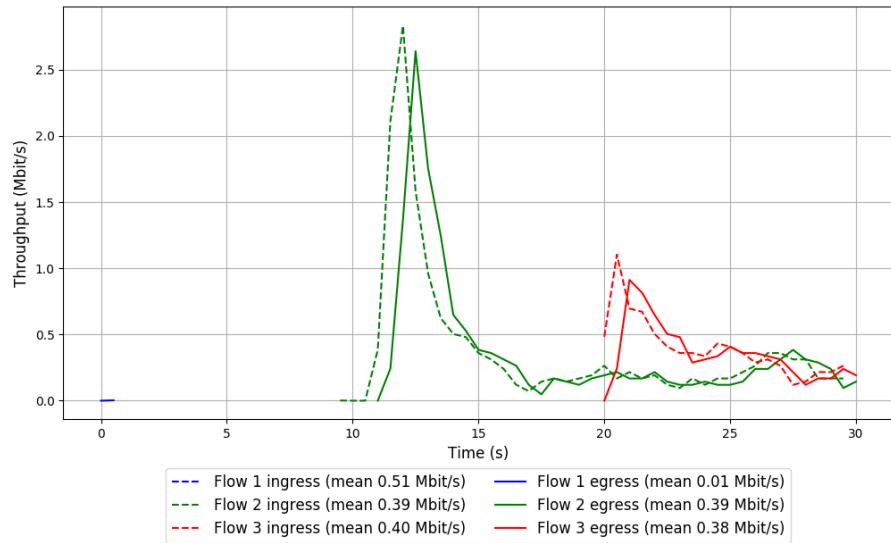


Run 2: Statistics of TCP Cubic

```
Start at: 2019-01-25 22:08:44
End at: 2019-01-25 22:09:14
Local clock offset: 14.387 ms
Remote clock offset: -0.511 ms

# Below is generated by plot.py at 2019-01-26 02:31:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 166.946 ms
Loss rate: 7.08%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 165.489 ms
Loss rate: 98.66%
-- Flow 2:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 166.918 ms
Loss rate: 6.02%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 166.971 ms
Loss rate: 6.64%
```

Run 2: Report of TCP Cubic — Data Link

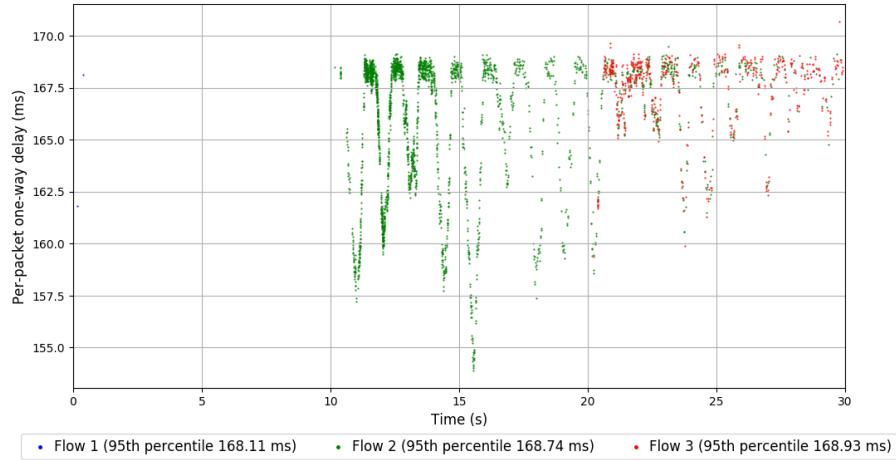
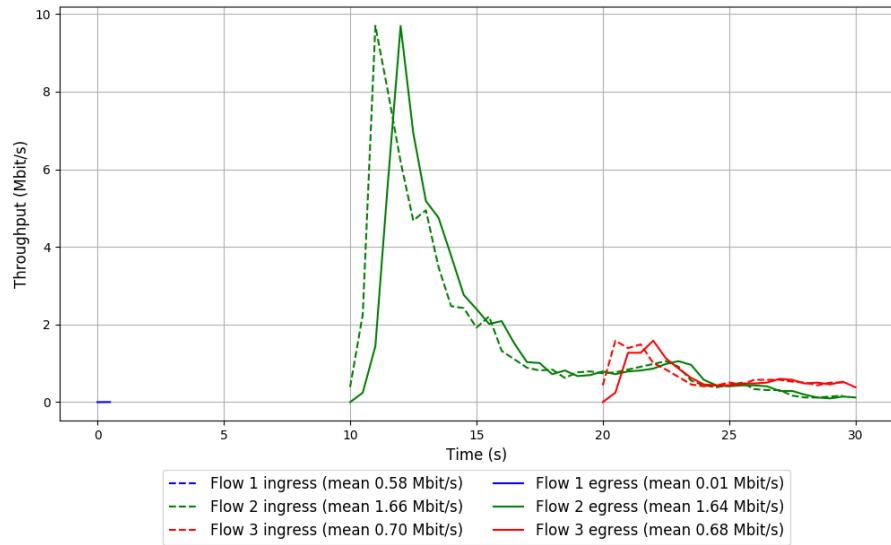


Run 3: Statistics of TCP Cubic

```
Start at: 2019-01-26 00:24:08
End at: 2019-01-26 00:24:38
Local clock offset: -0.829 ms
Remote clock offset: 0.377 ms

# Below is generated by plot.py at 2019-01-26 02:31:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 168.784 ms
Loss rate: 3.06%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 168.108 ms
Loss rate: 98.79%
-- Flow 2:
Average throughput: 1.64 Mbit/s
95th percentile per-packet one-way delay: 168.739 ms
Loss rate: 2.51%
-- Flow 3:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 168.928 ms
Loss rate: 3.99%
```

Run 3: Report of TCP Cubic — Data Link

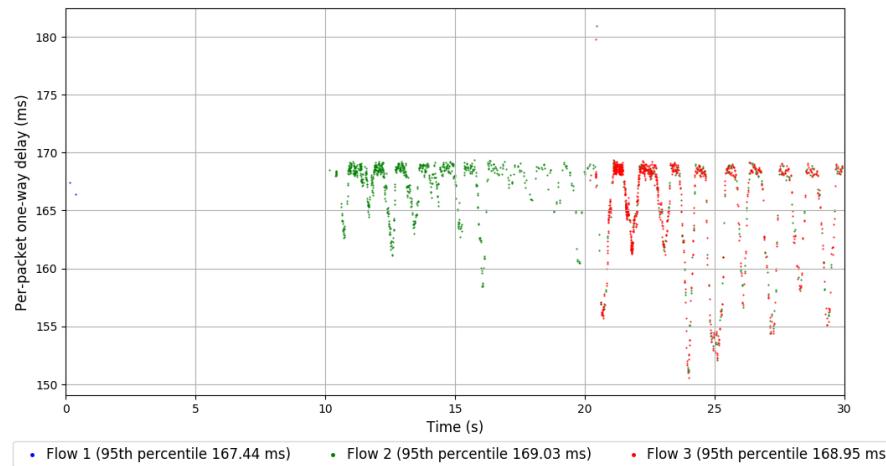
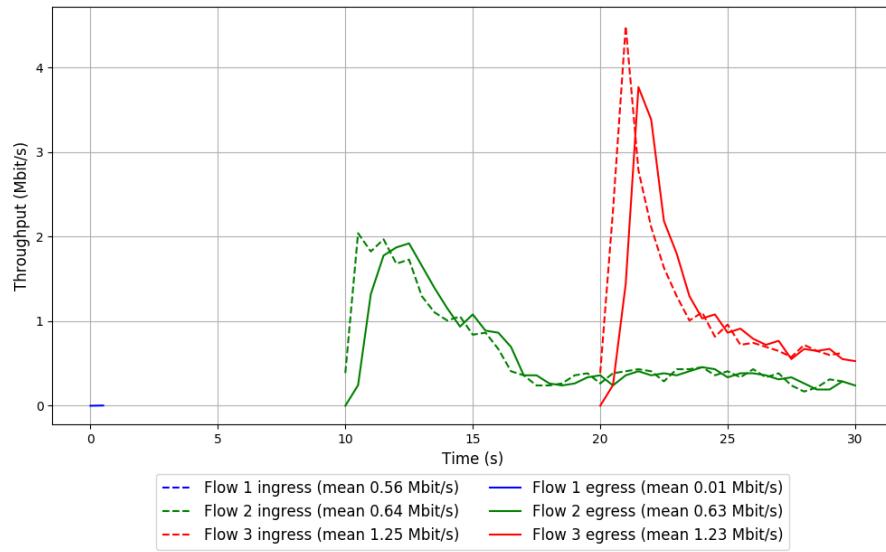


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-26 01:15:55
End at: 2019-01-26 01:16:25
Local clock offset: 6.901 ms
Remote clock offset: -0.614 ms

# Below is generated by plot.py at 2019-01-26 02:31:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.82 Mbit/s
95th percentile per-packet one-way delay: 169.004 ms
Loss rate: 4.39%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 167.438 ms
Loss rate: 98.79%
-- Flow 2:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 169.026 ms
Loss rate: 4.01%
-- Flow 3:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 168.954 ms
Loss rate: 3.86%
```

Run 4: Report of TCP Cubic — Data Link

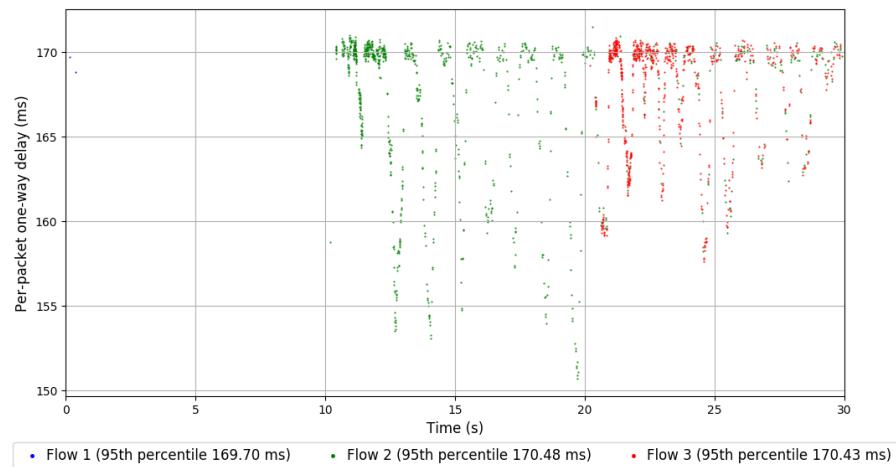
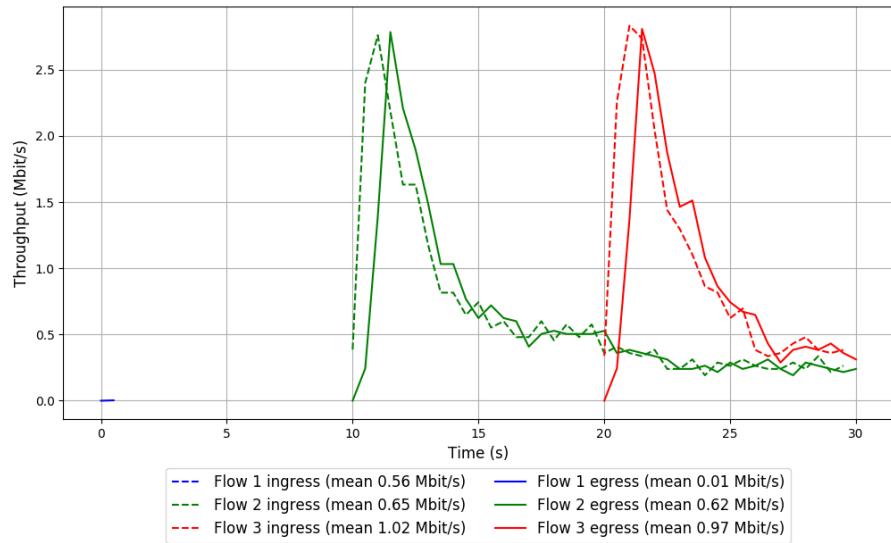


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-26 02:15:12
End at: 2019-01-26 02:15:42
Local clock offset: 1.299 ms
Remote clock offset: -1.354 ms

# Below is generated by plot.py at 2019-01-26 02:31:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.73 Mbit/s
95th percentile per-packet one-way delay: 170.455 ms
Loss rate: 6.60%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 169.700 ms
Loss rate: 98.79%
-- Flow 2:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 170.481 ms
Loss rate: 5.40%
-- Flow 3:
Average throughput: 0.97 Mbit/s
95th percentile per-packet one-way delay: 170.428 ms
Loss rate: 7.02%
```

Run 5: Report of TCP Cubic — Data Link

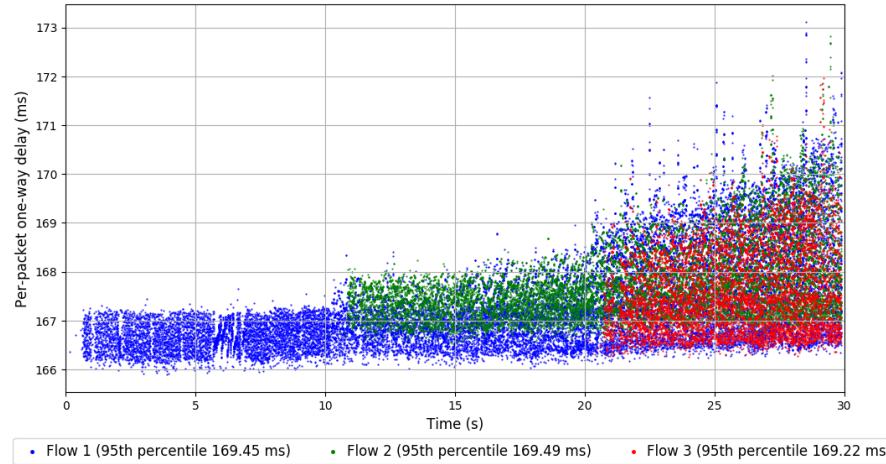
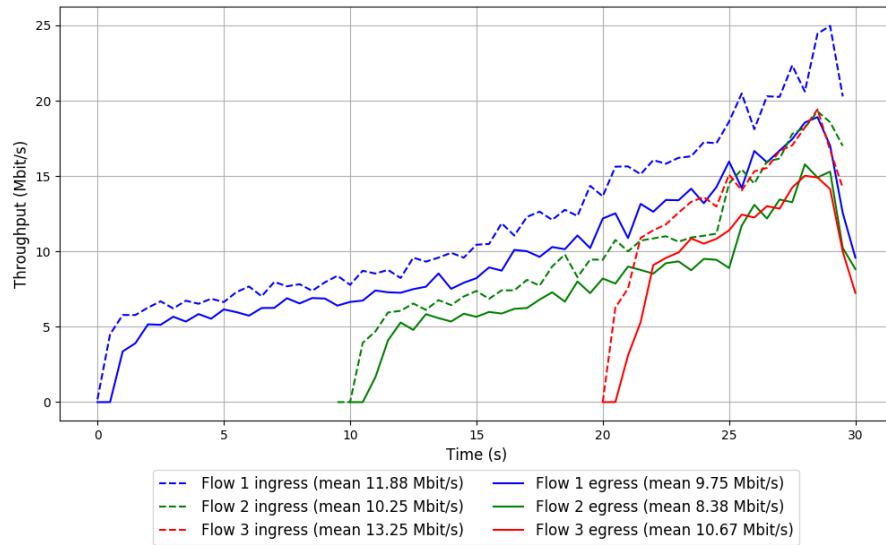


```
Run 1: Statistics of FillP

Start at: 2019-01-25 20:23:06
End at: 2019-01-25 20:23:36
Local clock offset: 2.108 ms
Remote clock offset: -9.431 ms

# Below is generated by plot.py at 2019-01-26 02:31:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.79 Mbit/s
95th percentile per-packet one-way delay: 169.406 ms
Loss rate: 19.25%
-- Flow 1:
Average throughput: 9.75 Mbit/s
95th percentile per-packet one-way delay: 169.446 ms
Loss rate: 18.55%
-- Flow 2:
Average throughput: 8.38 Mbit/s
95th percentile per-packet one-way delay: 169.490 ms
Loss rate: 19.16%
-- Flow 3:
Average throughput: 10.67 Mbit/s
95th percentile per-packet one-way delay: 169.220 ms
Loss rate: 21.30%
```

Run 1: Report of FillP — Data Link

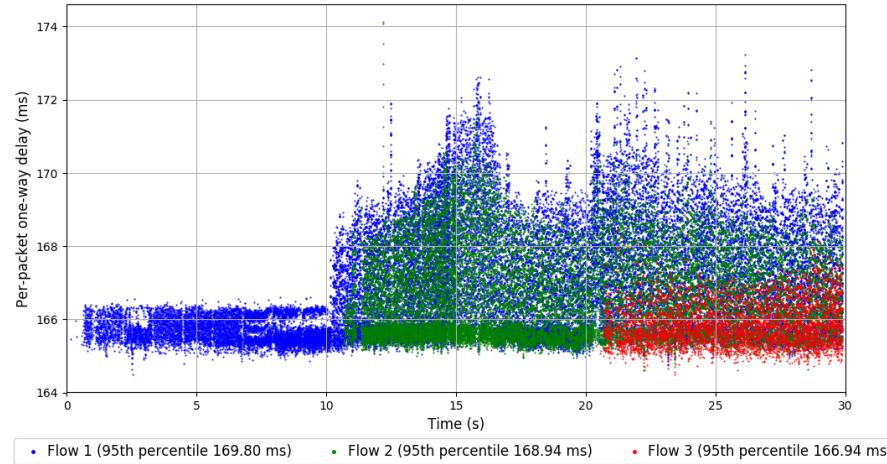
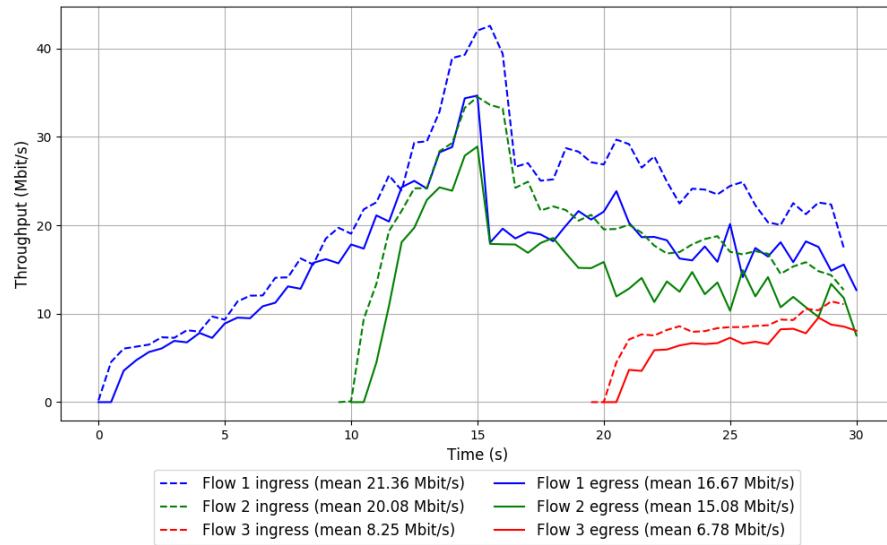


```
Run 2: Statistics of FillP
```

```
Start at: 2019-01-25 21:55:50
End at: 2019-01-25 21:56:20
Local clock offset: 1.559 ms
Remote clock offset: -0.468 ms

# Below is generated by plot.py at 2019-01-26 02:32:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.90 Mbit/s
95th percentile per-packet one-way delay: 169.460 ms
Loss rate: 23.44%
-- Flow 1:
Average throughput: 16.67 Mbit/s
95th percentile per-packet one-way delay: 169.801 ms
Loss rate: 22.49%
-- Flow 2:
Average throughput: 15.08 Mbit/s
95th percentile per-packet one-way delay: 168.943 ms
Loss rate: 25.73%
-- Flow 3:
Average throughput: 6.78 Mbit/s
95th percentile per-packet one-way delay: 166.938 ms
Loss rate: 19.68%
```

Run 2: Report of FillP — Data Link

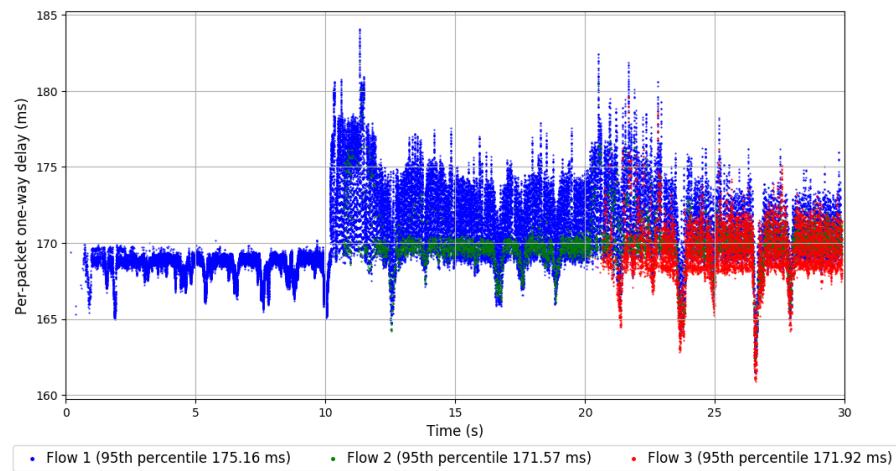
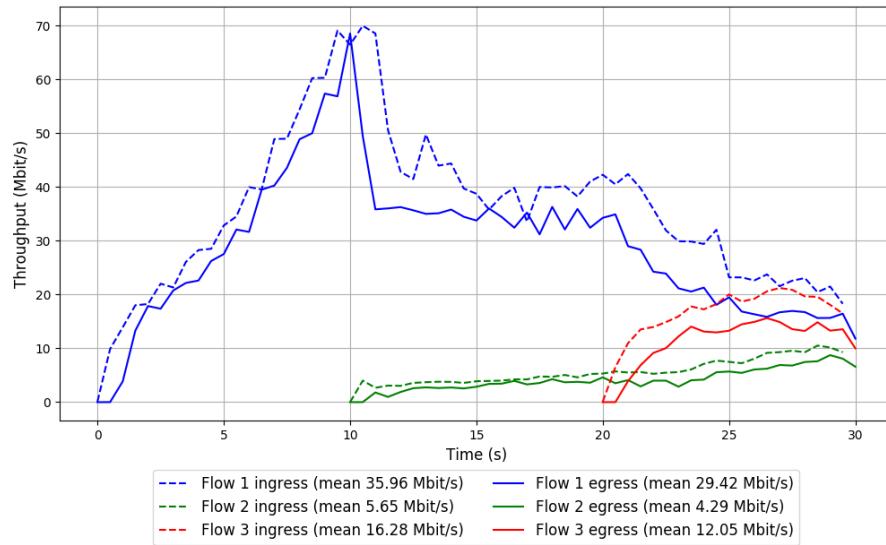


Run 3: Statistics of FillP

```
Start at: 2019-01-26 00:14:50
End at: 2019-01-26 00:15:20
Local clock offset: 2.06 ms
Remote clock offset: 0.043 ms

# Below is generated by plot.py at 2019-01-26 02:32:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.20 Mbit/s
95th percentile per-packet one-way delay: 174.871 ms
Loss rate: 20.37%
-- Flow 1:
Average throughput: 29.42 Mbit/s
95th percentile per-packet one-way delay: 175.163 ms
Loss rate: 18.79%
-- Flow 2:
Average throughput: 4.29 Mbit/s
95th percentile per-packet one-way delay: 171.573 ms
Loss rate: 24.91%
-- Flow 3:
Average throughput: 12.05 Mbit/s
95th percentile per-packet one-way delay: 171.922 ms
Loss rate: 27.69%
```

Run 3: Report of FillP — Data Link

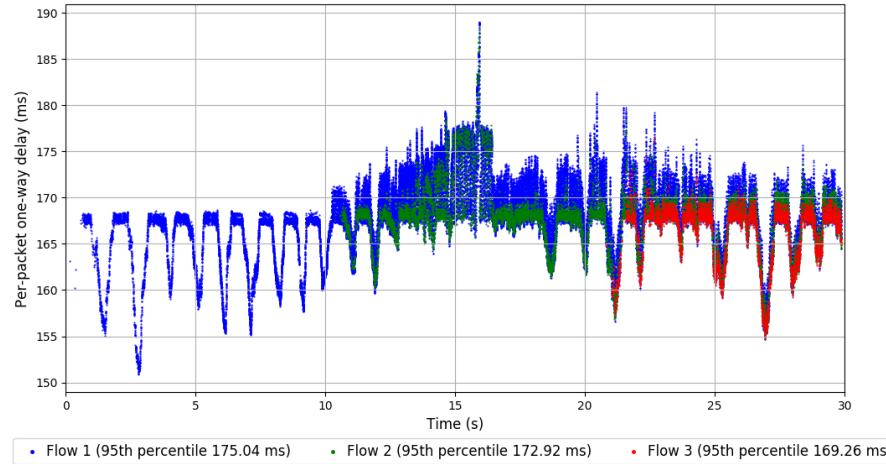
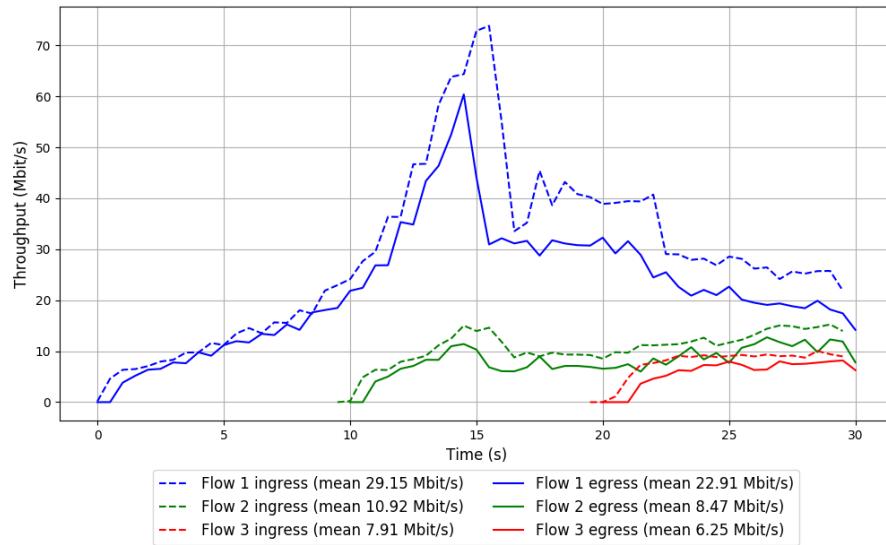


Run 4: Statistics of FillP

```
Start at: 2019-01-26 01:05:54
End at: 2019-01-26 01:06:24
Local clock offset: 3.928 ms
Remote clock offset: -1.215 ms

# Below is generated by plot.py at 2019-01-26 02:32:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.57 Mbit/s
95th percentile per-packet one-way delay: 174.624 ms
Loss rate: 22.28%
-- Flow 1:
Average throughput: 22.91 Mbit/s
95th percentile per-packet one-way delay: 175.037 ms
Loss rate: 21.99%
-- Flow 2:
Average throughput: 8.47 Mbit/s
95th percentile per-packet one-way delay: 172.922 ms
Loss rate: 23.33%
-- Flow 3:
Average throughput: 6.25 Mbit/s
95th percentile per-packet one-way delay: 169.257 ms
Loss rate: 22.62%
```

Run 4: Report of FillP — Data Link

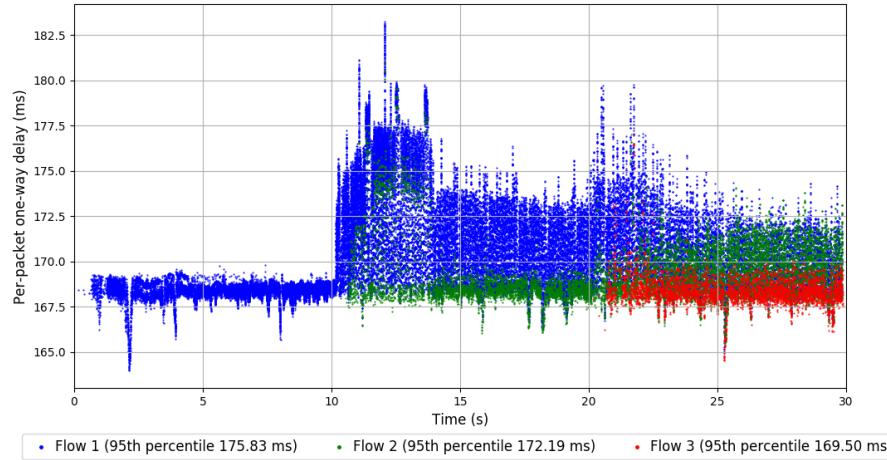
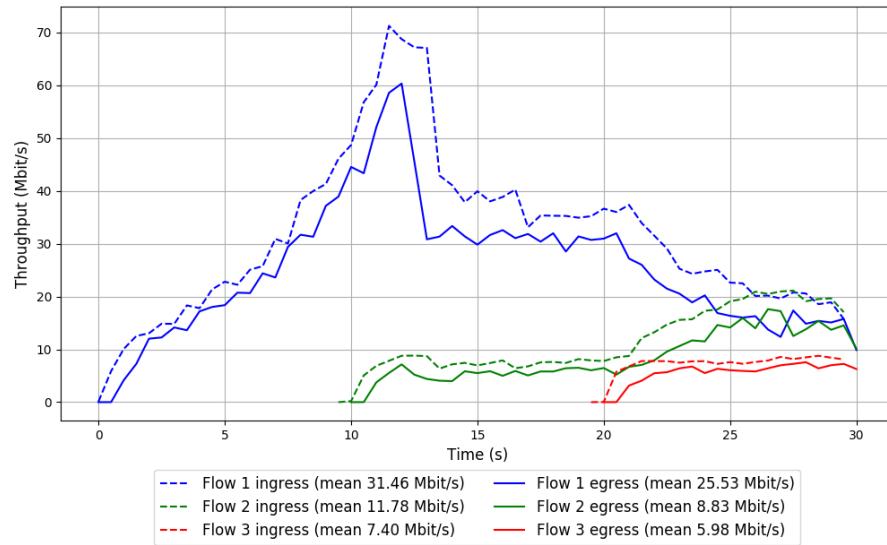


```
Run 5: Statistics of FillP
```

```
Start at: 2019-01-26 02:04:58
End at: 2019-01-26 02:05:28
Local clock offset: 1.812 ms
Remote clock offset: -0.133 ms

# Below is generated by plot.py at 2019-01-26 02:32:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.35 Mbit/s
95th percentile per-packet one-way delay: 175.399 ms
Loss rate: 20.74%
-- Flow 1:
Average throughput: 25.53 Mbit/s
95th percentile per-packet one-way delay: 175.829 ms
Loss rate: 19.43%
-- Flow 2:
Average throughput: 8.83 Mbit/s
95th percentile per-packet one-way delay: 172.193 ms
Loss rate: 25.92%
-- Flow 3:
Average throughput: 5.98 Mbit/s
95th percentile per-packet one-way delay: 169.504 ms
Loss rate: 20.92%
```

Run 5: Report of FillP — Data Link

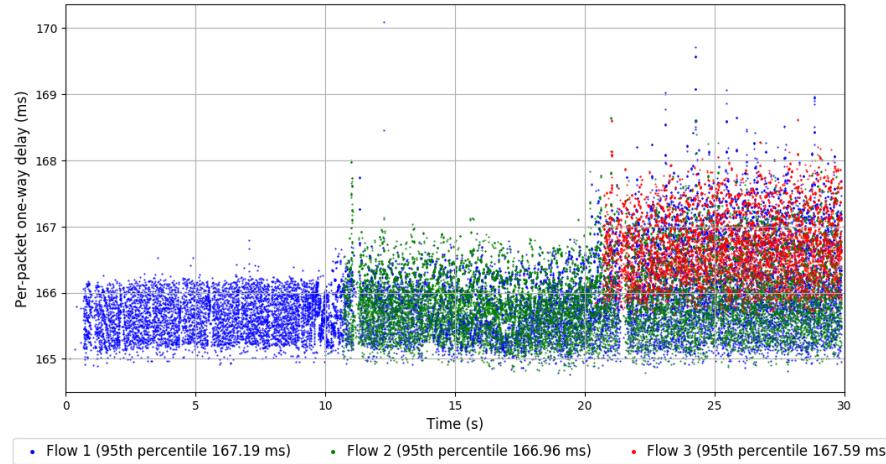
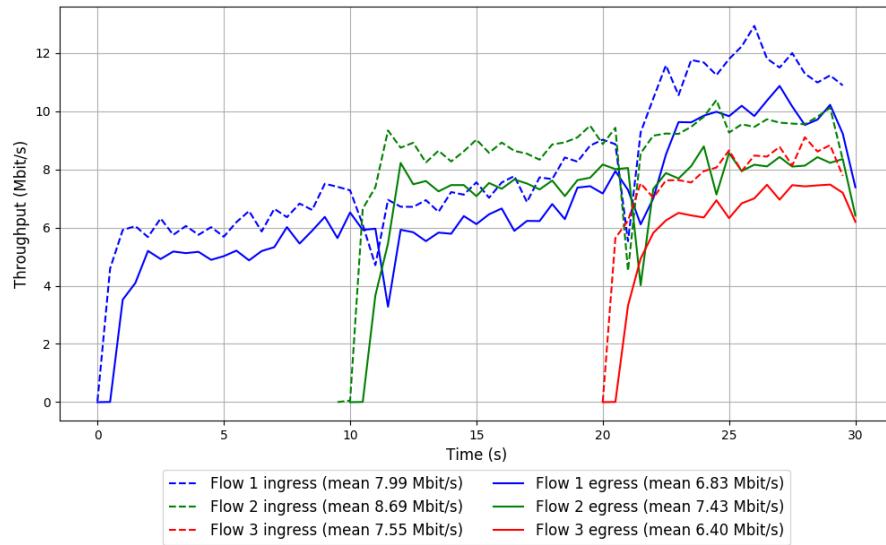


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-01-25 20:38:49
End at: 2019-01-25 20:39:19
Local clock offset: 1.42 ms
Remote clock offset: -4.2 ms

# Below is generated by plot.py at 2019-01-26 02:32:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.85 Mbit/s
95th percentile per-packet one-way delay: 167.283 ms
Loss rate: 15.58%
-- Flow 1:
Average throughput: 6.83 Mbit/s
95th percentile per-packet one-way delay: 167.187 ms
Loss rate: 15.14%
-- Flow 2:
Average throughput: 7.43 Mbit/s
95th percentile per-packet one-way delay: 166.961 ms
Loss rate: 15.52%
-- Flow 3:
Average throughput: 6.40 Mbit/s
95th percentile per-packet one-way delay: 167.595 ms
Loss rate: 17.12%
```

Run 1: Report of FillP-Sheep — Data Link

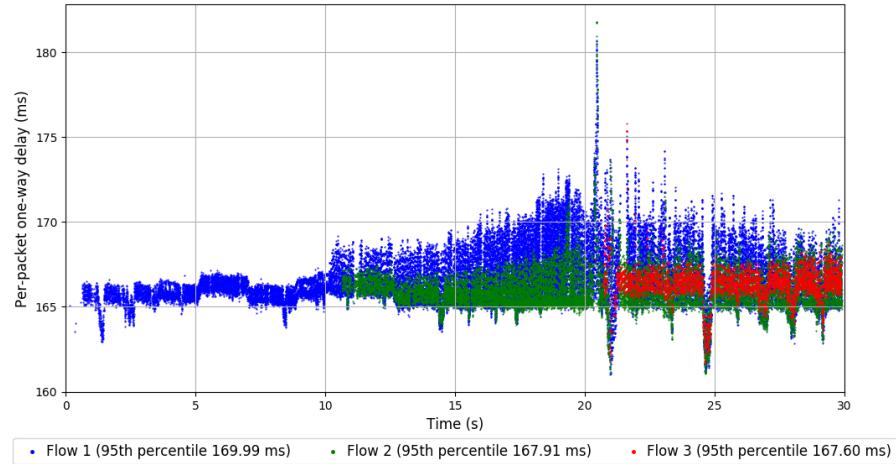
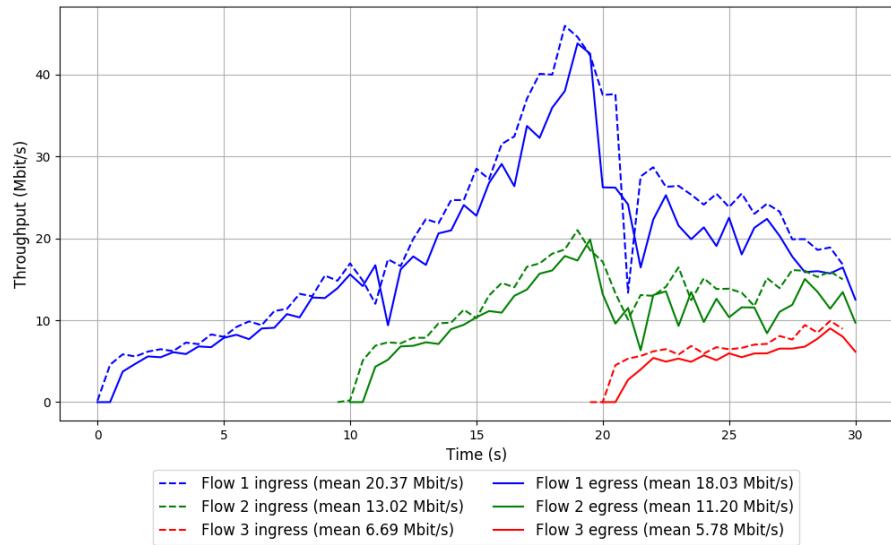


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-01-25 22:10:06
End at: 2019-01-25 22:10:36
Local clock offset: 15.641 ms
Remote clock offset: -0.402 ms

# Below is generated by plot.py at 2019-01-26 02:32:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.34 Mbit/s
95th percentile per-packet one-way delay: 169.627 ms
Loss rate: 13.16%
-- Flow 1:
Average throughput: 18.03 Mbit/s
95th percentile per-packet one-way delay: 169.989 ms
Loss rate: 12.13%
-- Flow 2:
Average throughput: 11.20 Mbit/s
95th percentile per-packet one-way delay: 167.907 ms
Loss rate: 14.91%
-- Flow 3:
Average throughput: 5.78 Mbit/s
95th percentile per-packet one-way delay: 167.597 ms
Loss rate: 15.70%
```

Run 2: Report of FillP-Sheep — Data Link

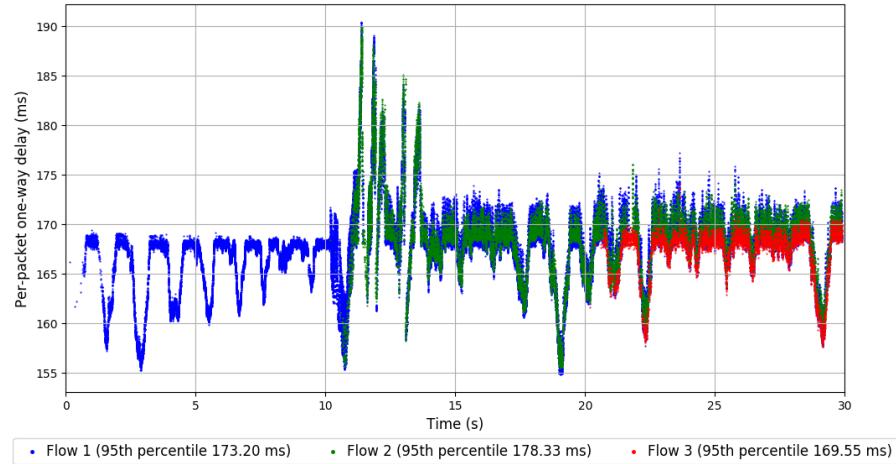
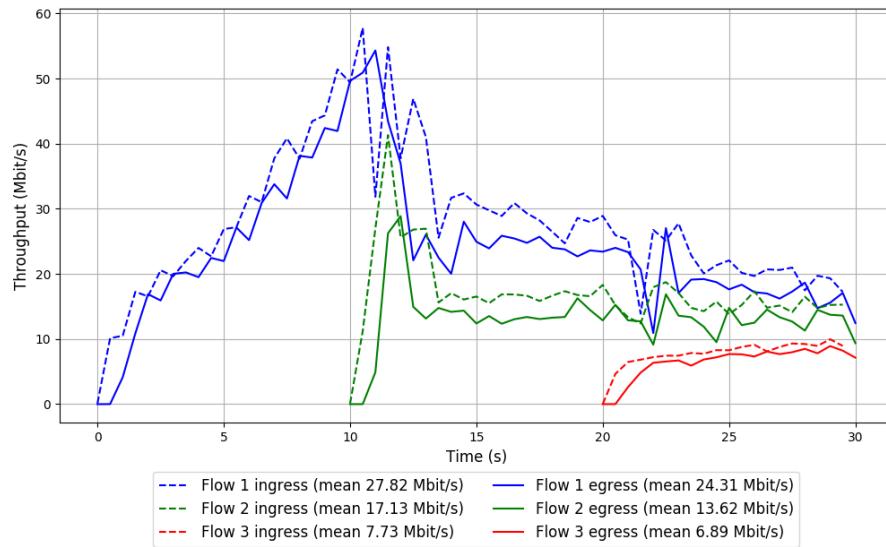


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-01-26 00:25:29
End at: 2019-01-26 00:26:00
Local clock offset: -1.27 ms
Remote clock offset: -0.885 ms

# Below is generated by plot.py at 2019-01-26 02:32:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.59 Mbit/s
95th percentile per-packet one-way delay: 174.080 ms
Loss rate: 15.46%
-- Flow 1:
Average throughput: 24.31 Mbit/s
95th percentile per-packet one-way delay: 173.201 ms
Loss rate: 13.27%
-- Flow 2:
Average throughput: 13.62 Mbit/s
95th percentile per-packet one-way delay: 178.329 ms
Loss rate: 21.41%
-- Flow 3:
Average throughput: 6.89 Mbit/s
95th percentile per-packet one-way delay: 169.549 ms
Loss rate: 12.65%
```

Run 3: Report of FillP-Sheep — Data Link

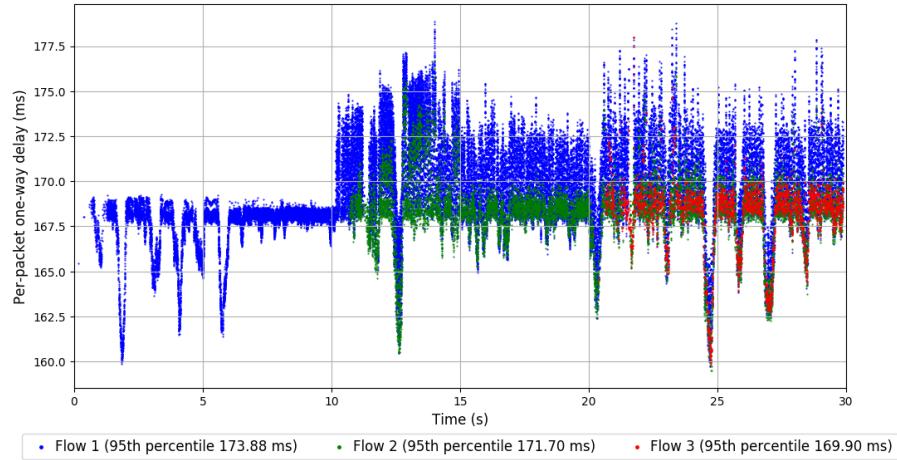
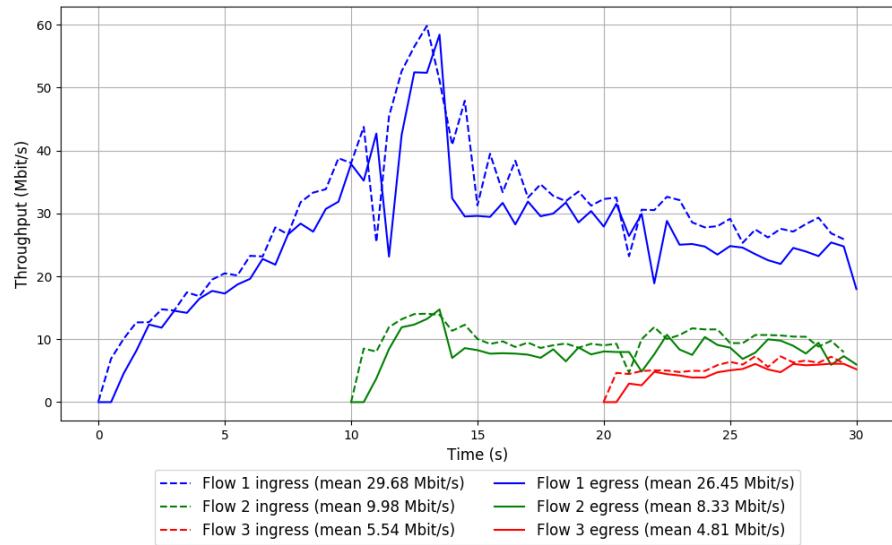


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-26 01:17:20
End at: 2019-01-26 01:17:50
Local clock offset: 7.38 ms
Remote clock offset: -0.582 ms

# Below is generated by plot.py at 2019-01-26 02:32:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.54 Mbit/s
95th percentile per-packet one-way delay: 173.615 ms
Loss rate: 12.77%
-- Flow 1:
Average throughput: 26.45 Mbit/s
95th percentile per-packet one-way delay: 173.876 ms
Loss rate: 11.57%
-- Flow 2:
Average throughput: 8.33 Mbit/s
95th percentile per-packet one-way delay: 171.702 ms
Loss rate: 17.50%
-- Flow 3:
Average throughput: 4.81 Mbit/s
95th percentile per-packet one-way delay: 169.898 ms
Loss rate: 15.06%
```

Run 4: Report of FillP-Sheep — Data Link

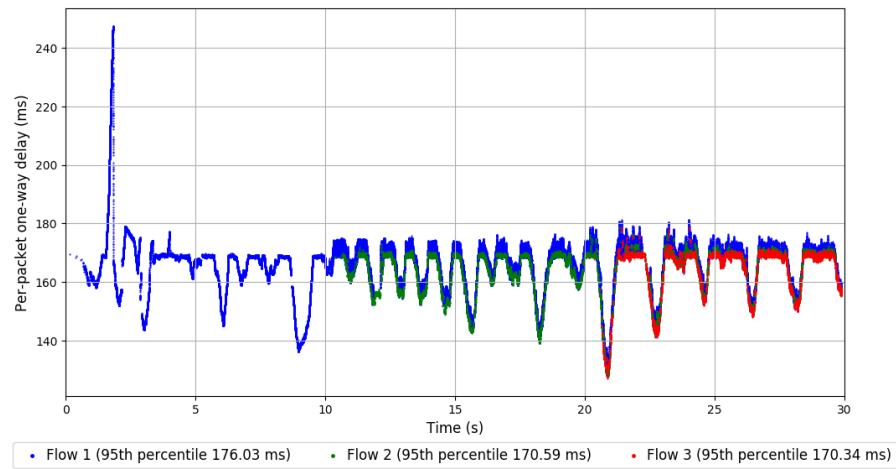
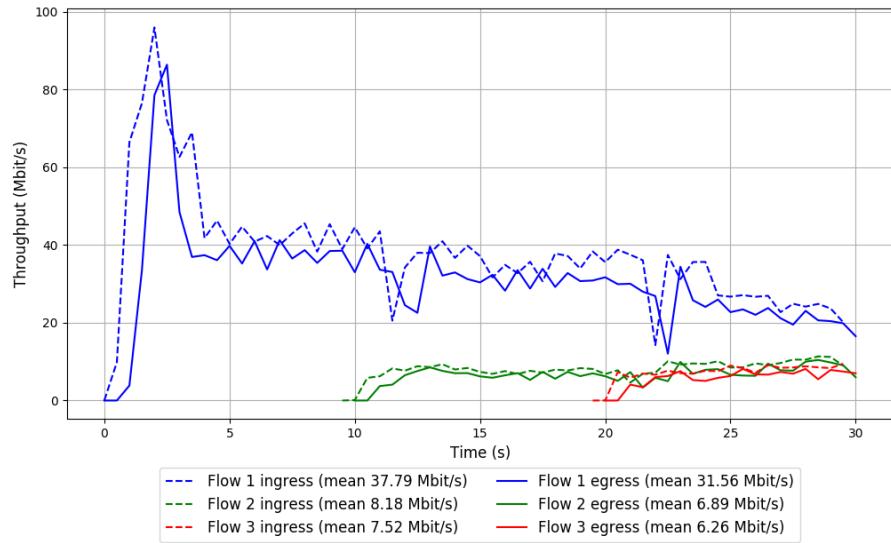


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-26 02:16:34
End at: 2019-01-26 02:17:04
Local clock offset: 1.301 ms
Remote clock offset: -0.816 ms

# Below is generated by plot.py at 2019-01-26 02:32:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.18 Mbit/s
95th percentile per-packet one-way delay: 175.220 ms
Loss rate: 17.13%
-- Flow 1:
Average throughput: 31.56 Mbit/s
95th percentile per-packet one-way delay: 176.035 ms
Loss rate: 17.10%
-- Flow 2:
Average throughput: 6.89 Mbit/s
95th percentile per-packet one-way delay: 170.594 ms
Loss rate: 16.70%
-- Flow 3:
Average throughput: 6.26 Mbit/s
95th percentile per-packet one-way delay: 170.341 ms
Loss rate: 18.54%
```

Run 5: Report of FillP-Sheep — Data Link

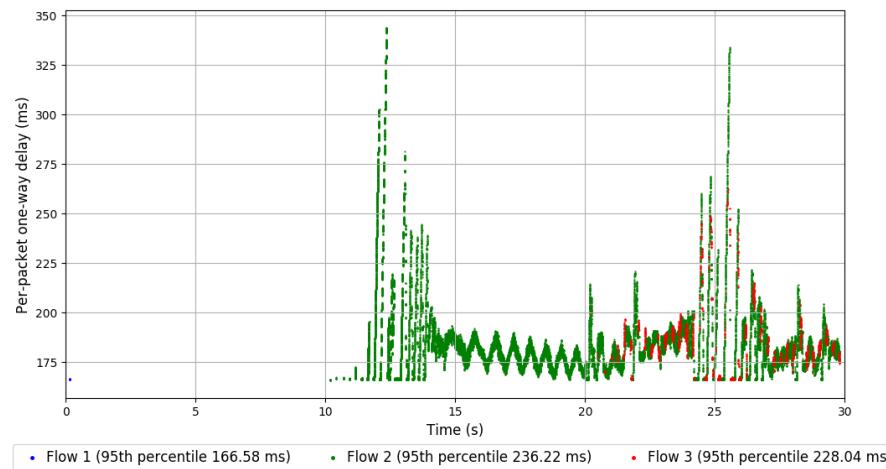
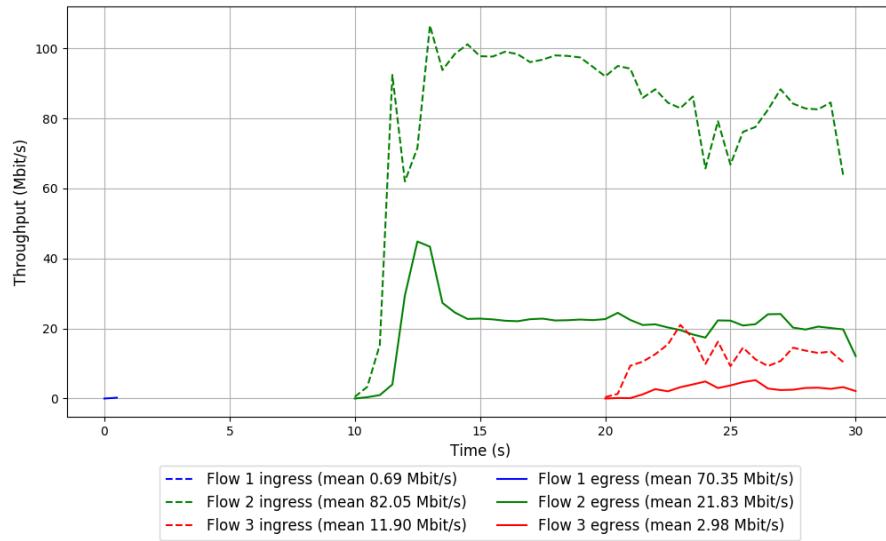


Run 1: Statistics of Indigo

```
Start at: 2019-01-25 20:07:32
End at: 2019-01-25 20:08:02
Local clock offset: 0.596 ms
Remote clock offset: -10.074 ms

# Below is generated by plot.py at 2019-01-26 02:32:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.42 Mbit/s
95th percentile per-packet one-way delay: 235.171 ms
Loss rate: 73.85%
-- Flow 1:
Average throughput: 70.35 Mbit/s
95th percentile per-packet one-way delay: 166.583 ms
Loss rate: 23.21%
-- Flow 2:
Average throughput: 21.83 Mbit/s
95th percentile per-packet one-way delay: 236.219 ms
Loss rate: 73.73%
-- Flow 3:
Average throughput: 2.98 Mbit/s
95th percentile per-packet one-way delay: 228.043 ms
Loss rate: 75.61%
```

Run 1: Report of Indigo — Data Link

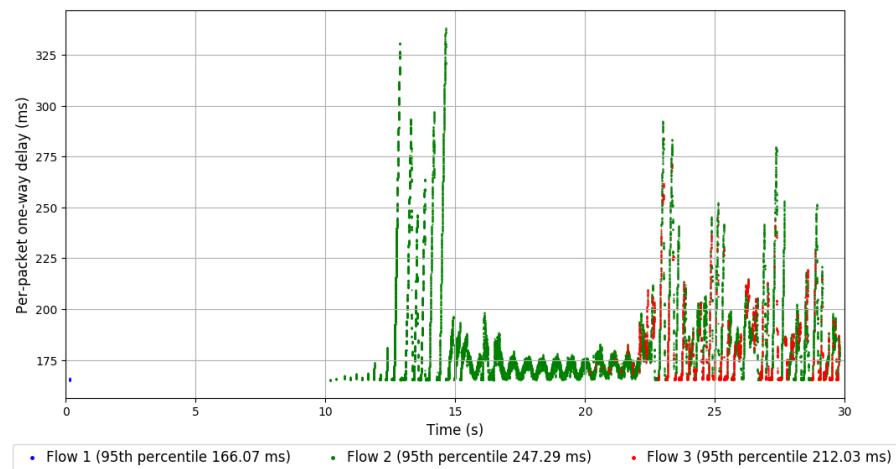
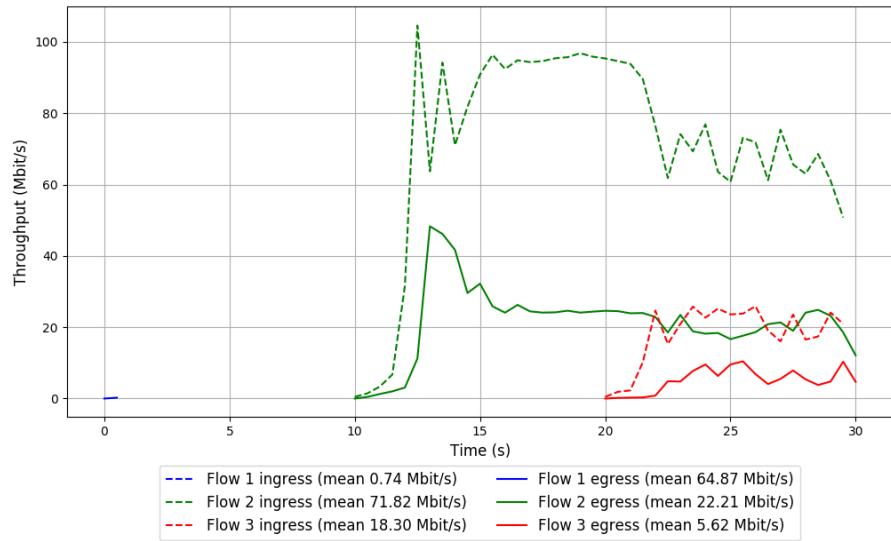


Run 2: Statistics of Indigo

```
Start at: 2019-01-25 21:47:38
End at: 2019-01-25 21:48:08
Local clock offset: 1.782 ms
Remote clock offset: -0.357 ms

# Below is generated by plot.py at 2019-01-26 02:32:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.54 Mbit/s
95th percentile per-packet one-way delay: 242.946 ms
Loss rate: 69.50%
-- Flow 1:
Average throughput: 64.87 Mbit/s
95th percentile per-packet one-way delay: 166.066 ms
Loss rate: 28.73%
-- Flow 2:
Average throughput: 22.21 Mbit/s
95th percentile per-packet one-way delay: 247.291 ms
Loss rate: 69.44%
-- Flow 3:
Average throughput: 5.62 Mbit/s
95th percentile per-packet one-way delay: 212.031 ms
Loss rate: 70.02%
```

Run 2: Report of Indigo — Data Link

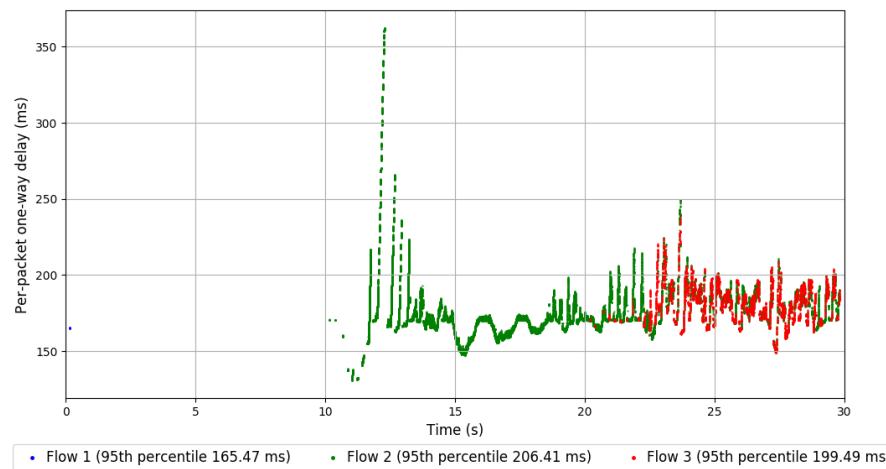
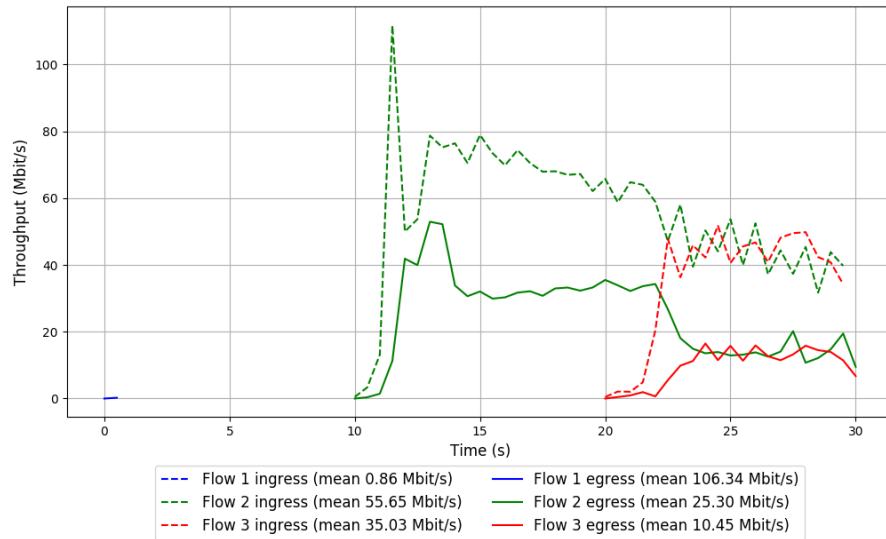


Run 3: Statistics of Indigo

```
Start at: 2019-01-26 00:11:38
End at: 2019-01-26 00:12:08
Local clock offset: 4.492 ms
Remote clock offset: -0.412 ms

# Below is generated by plot.py at 2019-01-26 02:32:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.14 Mbit/s
95th percentile per-packet one-way delay: 204.027 ms
Loss rate: 58.84%
-- Flow 1:
Average throughput: 106.34 Mbit/s
95th percentile per-packet one-way delay: 165.471 ms
Loss rate: 37.68%
-- Flow 2:
Average throughput: 25.30 Mbit/s
95th percentile per-packet one-way delay: 206.414 ms
Loss rate: 55.06%
-- Flow 3:
Average throughput: 10.45 Mbit/s
95th percentile per-packet one-way delay: 199.486 ms
Loss rate: 70.94%
```

Run 3: Report of Indigo — Data Link

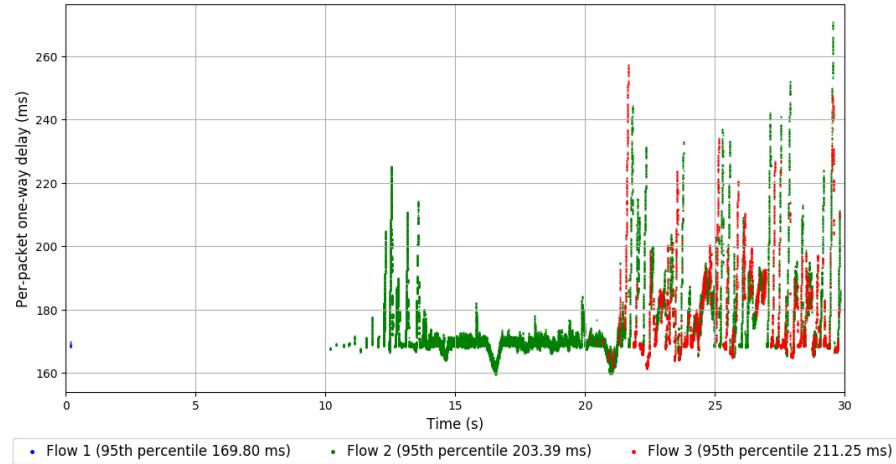
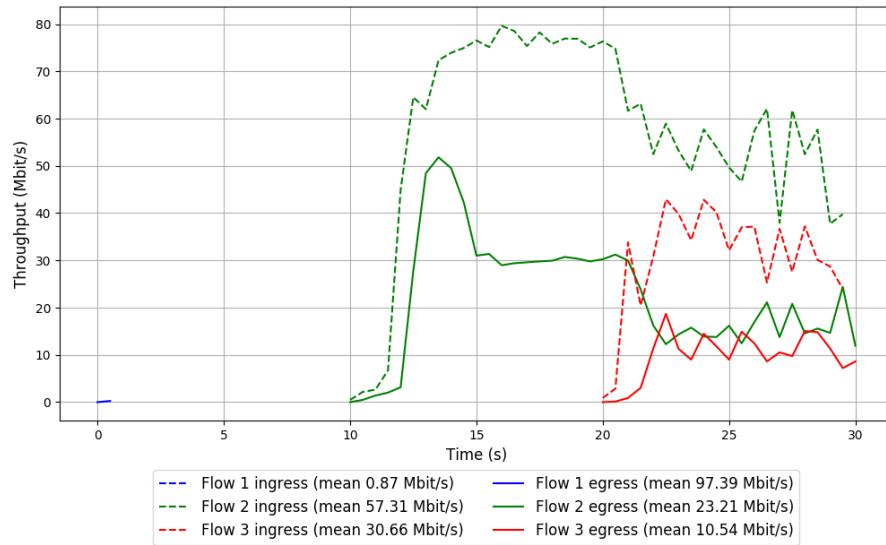


Run 4: Statistics of Indigo

```
Start at: 2019-01-26 01:02:31
End at: 2019-01-26 01:03:01
Local clock offset: 2.013 ms
Remote clock offset: -1.595 ms

# Below is generated by plot.py at 2019-01-26 02:32:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.80 Mbit/s
95th percentile per-packet one-way delay: 205.068 ms
Loss rate: 61.32%
-- Flow 1:
Average throughput: 97.39 Mbit/s
95th percentile per-packet one-way delay: 169.801 ms
Loss rate: 37.69%
-- Flow 2:
Average throughput: 23.21 Mbit/s
95th percentile per-packet one-way delay: 203.390 ms
Loss rate: 59.97%
-- Flow 3:
Average throughput: 10.54 Mbit/s
95th percentile per-packet one-way delay: 211.254 ms
Loss rate: 66.44%
```

Run 4: Report of Indigo — Data Link

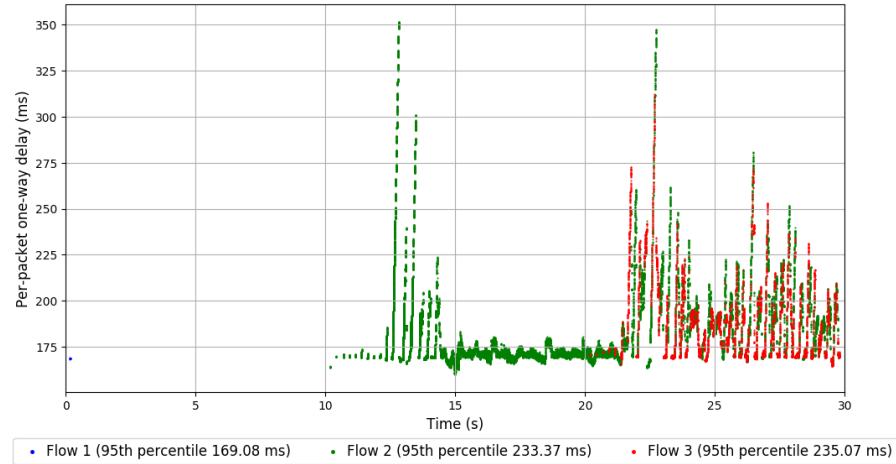
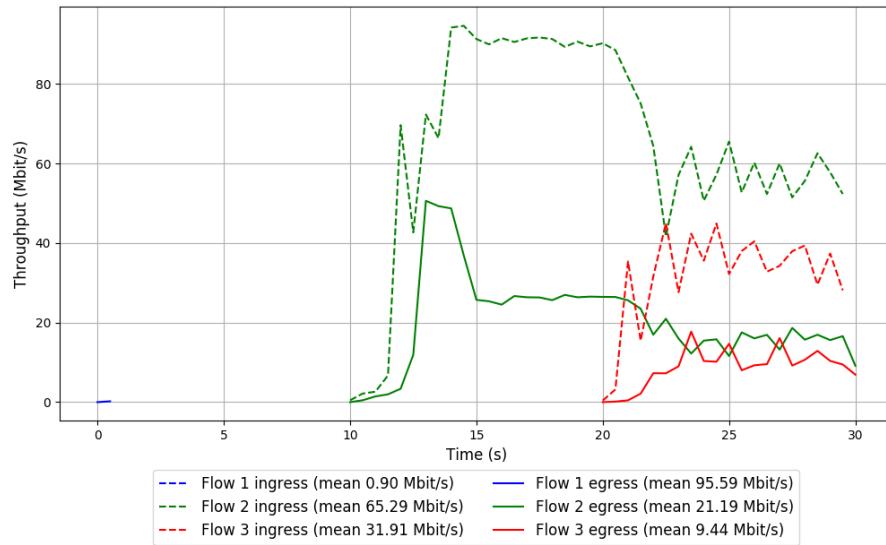


Run 5: Statistics of Indigo

```
Start at: 2019-01-26 01:58:37
End at: 2019-01-26 01:59:07
Local clock offset: 2.443 ms
Remote clock offset: -1.137 ms

# Below is generated by plot.py at 2019-01-26 02:32:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.10 Mbit/s
95th percentile per-packet one-way delay: 233.754 ms
Loss rate: 68.62%
-- Flow 1:
Average throughput: 95.59 Mbit/s
95th percentile per-packet one-way delay: 169.081 ms
Loss rate: 47.19%
-- Flow 2:
Average throughput: 21.19 Mbit/s
95th percentile per-packet one-way delay: 233.372 ms
Loss rate: 67.99%
-- Flow 3:
Average throughput: 9.44 Mbit/s
95th percentile per-packet one-way delay: 235.066 ms
Loss rate: 71.24%
```

Run 5: Report of Indigo — Data Link

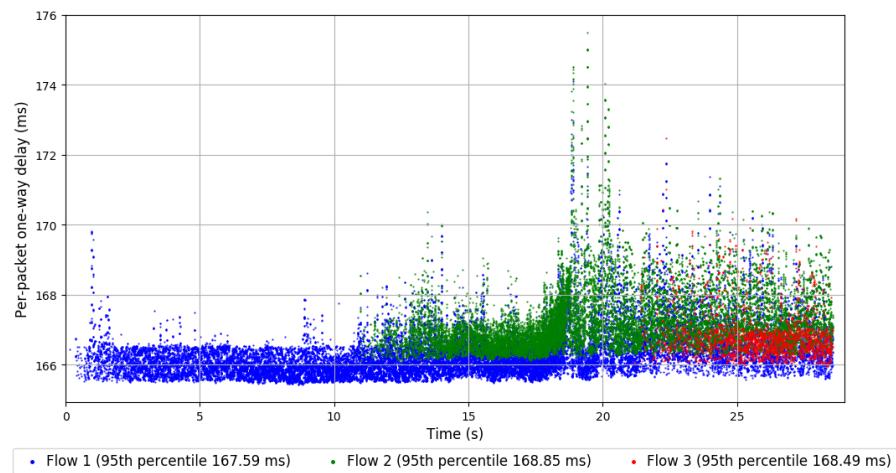
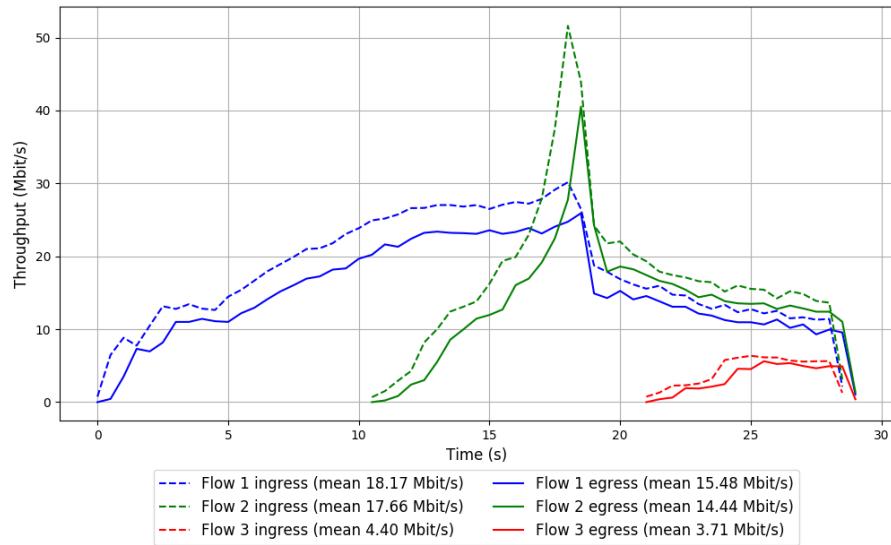


```
Run 1: Statistics of Indigo-MusesC3
```

```
Start at: 2019-01-25 20:33:07
End at: 2019-01-25 20:33:37
Local clock offset: 1.594 ms
Remote clock offset: -5.09 ms

# Below is generated by plot.py at 2019-01-26 02:32:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 25.49 Mbit/s
95th percentile per-packet one-way delay: 168.313 ms
Loss rate: 16.95%
-- Flow 1:
Average throughput: 15.48 Mbit/s
95th percentile per-packet one-way delay: 167.591 ms
Loss rate: 15.47%
-- Flow 2:
Average throughput: 14.44 Mbit/s
95th percentile per-packet one-way delay: 168.849 ms
Loss rate: 19.25%
-- Flow 3:
Average throughput: 3.71 Mbit/s
95th percentile per-packet one-way delay: 168.488 ms
Loss rate: 18.10%
```

Run 1: Report of Indigo-MusesC3 — Data Link

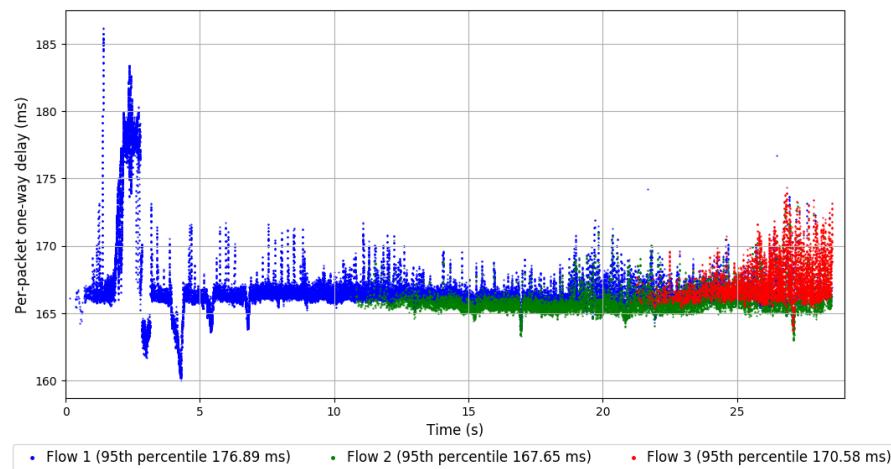
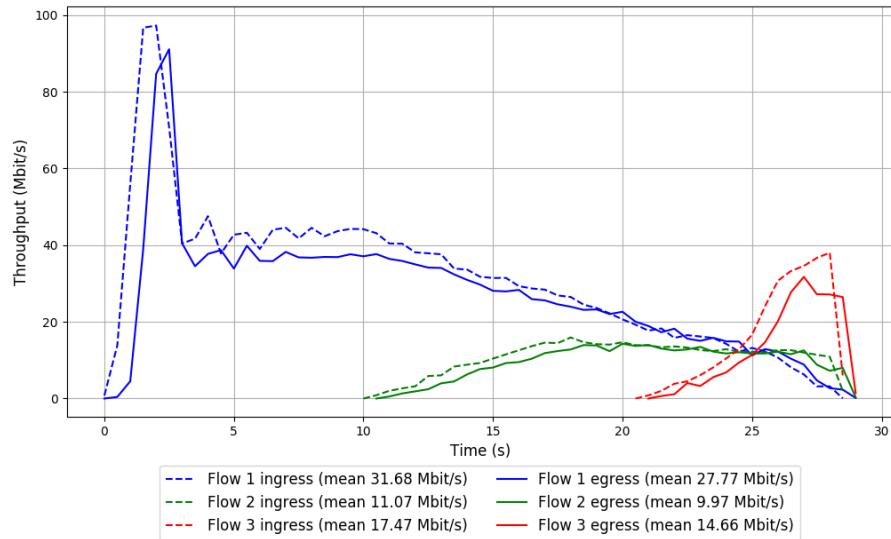


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-01-25 22:05:54
End at: 2019-01-25 22:06:24
Local clock offset: 11.682 ms
Remote clock offset: -0.83 ms

# Below is generated by plot.py at 2019-01-26 02:32:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.92 Mbit/s
95th percentile per-packet one-way delay: 173.175 ms
Loss rate: 13.32%
-- Flow 1:
Average throughput: 27.77 Mbit/s
95th percentile per-packet one-way delay: 176.886 ms
Loss rate: 13.02%
-- Flow 2:
Average throughput: 9.97 Mbit/s
95th percentile per-packet one-way delay: 167.648 ms
Loss rate: 11.12%
-- Flow 3:
Average throughput: 14.66 Mbit/s
95th percentile per-packet one-way delay: 170.578 ms
Loss rate: 18.58%
```

Run 2: Report of Indigo-MusesC3 — Data Link

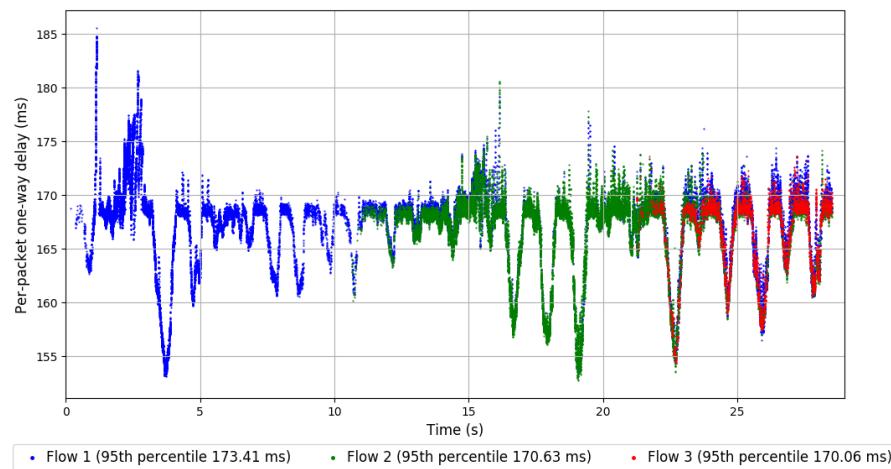
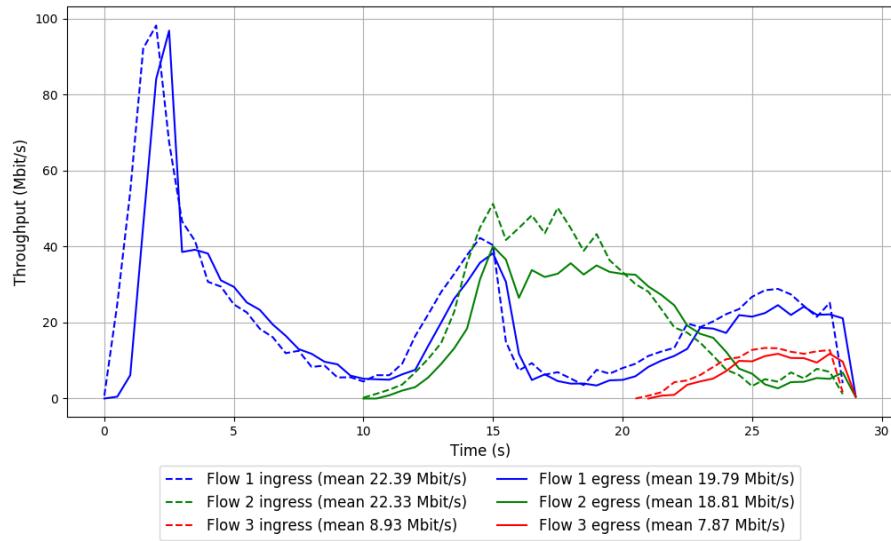


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-01-26 00:22:05
End at: 2019-01-26 00:22:35
Local clock offset: -0.559 ms
Remote clock offset: -0.427 ms

# Below is generated by plot.py at 2019-01-26 02:32:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.86 Mbit/s
95th percentile per-packet one-way delay: 172.109 ms
Loss rate: 14.08%
-- Flow 1:
Average throughput: 19.79 Mbit/s
95th percentile per-packet one-way delay: 173.408 ms
Loss rate: 12.31%
-- Flow 2:
Average throughput: 18.81 Mbit/s
95th percentile per-packet one-way delay: 170.627 ms
Loss rate: 16.80%
-- Flow 3:
Average throughput: 7.87 Mbit/s
95th percentile per-packet one-way delay: 170.064 ms
Loss rate: 14.31%
```

Run 3: Report of Indigo-MusesC3 — Data Link

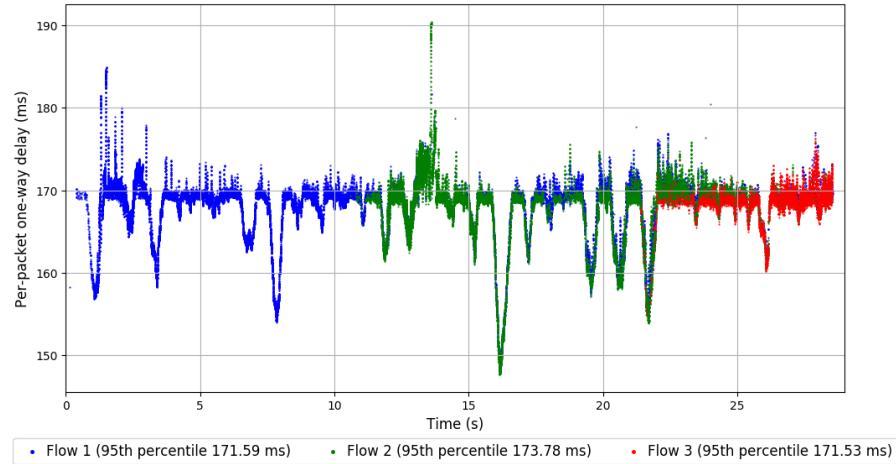
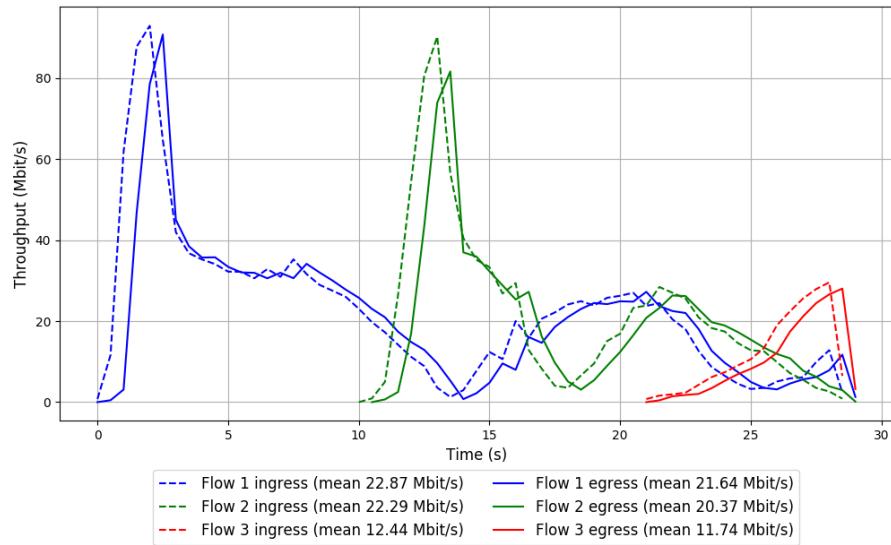


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-01-26 01:13:31
End at: 2019-01-26 01:14:01
Local clock offset: 6.603 ms
Remote clock offset: -1.562 ms

# Below is generated by plot.py at 2019-01-26 02:32:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.55 Mbit/s
95th percentile per-packet one-way delay: 172.503 ms
Loss rate: 7.56%
-- Flow 1:
Average throughput: 21.64 Mbit/s
95th percentile per-packet one-way delay: 171.595 ms
Loss rate: 6.05%
-- Flow 2:
Average throughput: 20.37 Mbit/s
95th percentile per-packet one-way delay: 173.785 ms
Loss rate: 9.78%
-- Flow 3:
Average throughput: 11.74 Mbit/s
95th percentile per-packet one-way delay: 171.530 ms
Loss rate: 8.49%
```

Run 4: Report of Indigo-MusesC3 — Data Link

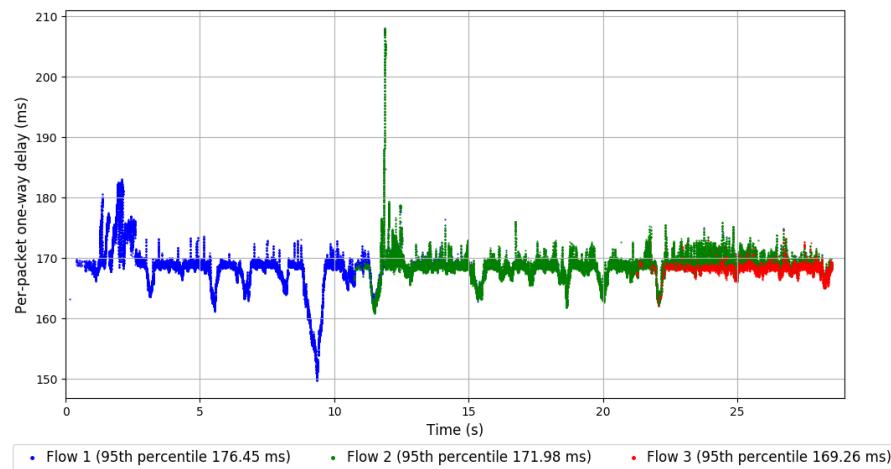
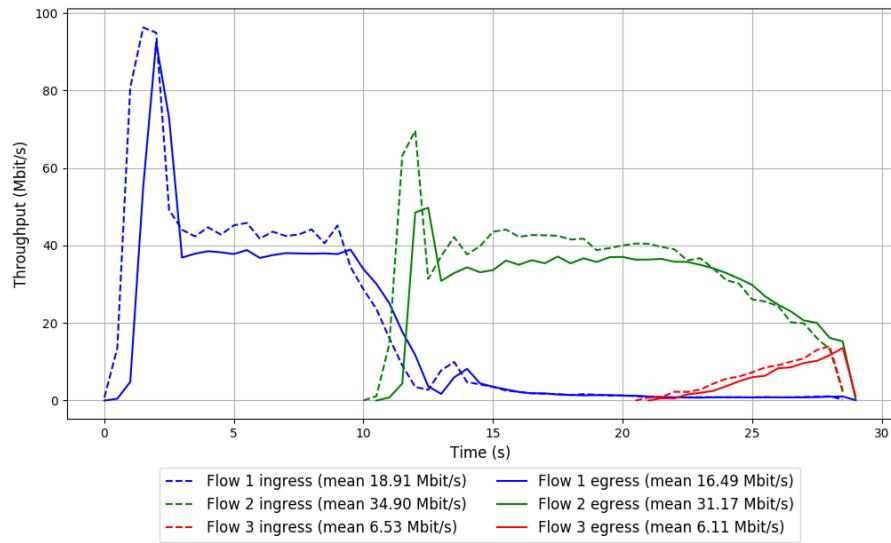


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-01-26 02:12:41
End at: 2019-01-26 02:13:11
Local clock offset: 1.489 ms
Remote clock offset: -0.361 ms

# Below is generated by plot.py at 2019-01-26 02:33:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.86 Mbit/s
95th percentile per-packet one-way delay: 174.928 ms
Loss rate: 12.44%
-- Flow 1:
Average throughput: 16.49 Mbit/s
95th percentile per-packet one-way delay: 176.454 ms
Loss rate: 13.51%
-- Flow 2:
Average throughput: 31.17 Mbit/s
95th percentile per-packet one-way delay: 171.981 ms
Loss rate: 11.80%
-- Flow 3:
Average throughput: 6.11 Mbit/s
95th percentile per-packet one-way delay: 169.265 ms
Loss rate: 9.15%
```

Run 5: Report of Indigo-MusesC3 — Data Link

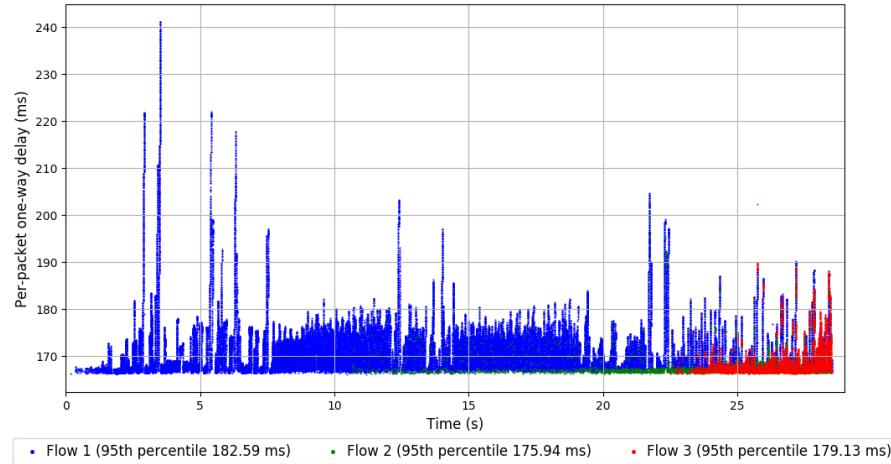
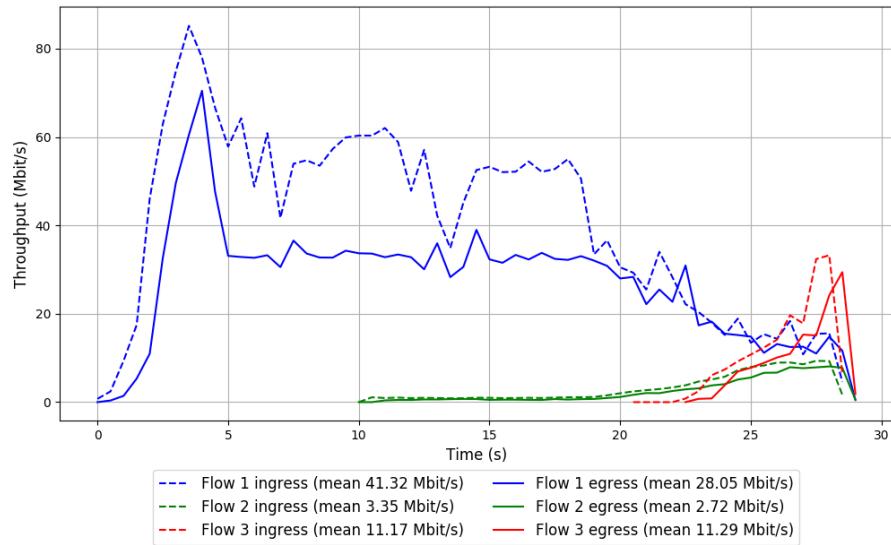


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-01-25 20:27:27
End at: 2019-01-25 20:27:57
Local clock offset: 1.976 ms
Remote clock offset: -6.685 ms

# Below is generated by plot.py at 2019-01-26 02:33:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 32.17 Mbit/s
95th percentile per-packet one-way delay: 182.012 ms
Loss rate: 31.27%
-- Flow 1:
Average throughput: 28.05 Mbit/s
95th percentile per-packet one-way delay: 182.592 ms
Loss rate: 32.58%
-- Flow 2:
Average throughput: 2.72 Mbit/s
95th percentile per-packet one-way delay: 175.941 ms
Loss rate: 19.81%
-- Flow 3:
Average throughput: 11.29 Mbit/s
95th percentile per-packet one-way delay: 179.134 ms
Loss rate: 21.39%
```

Run 1: Report of Indigo-MusesC5 — Data Link

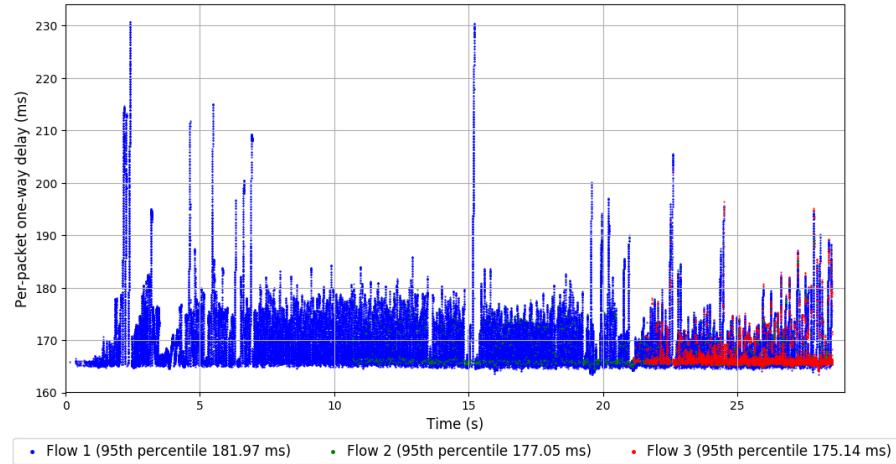
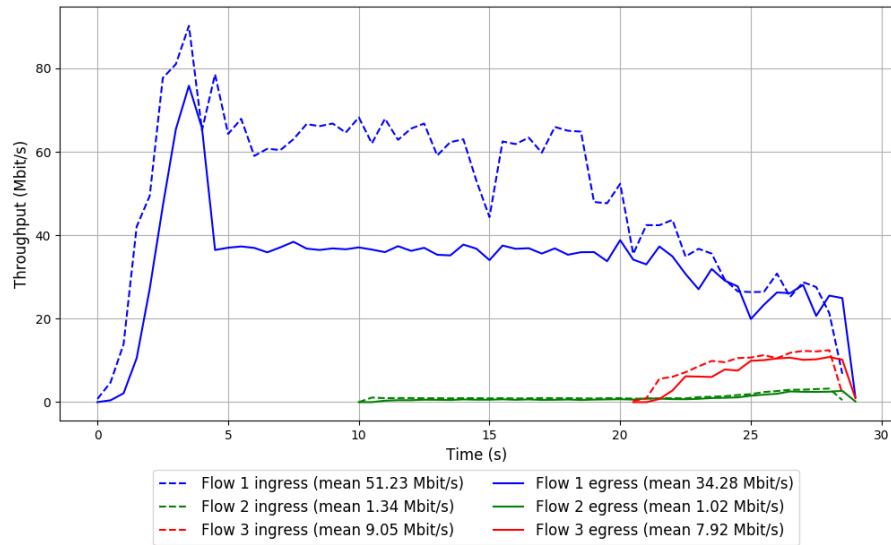


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-01-25 22:02:28
End at: 2019-01-25 22:02:58
Local clock offset: 6.909 ms
Remote clock offset: -1.417 ms

# Below is generated by plot.py at 2019-01-26 02:33:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.05 Mbit/s
95th percentile per-packet one-way delay: 181.582 ms
Loss rate: 32.63%
-- Flow 1:
Average throughput: 34.28 Mbit/s
95th percentile per-packet one-way delay: 181.966 ms
Loss rate: 33.62%
-- Flow 2:
Average throughput: 1.02 Mbit/s
95th percentile per-packet one-way delay: 177.051 ms
Loss rate: 24.81%
-- Flow 3:
Average throughput: 7.92 Mbit/s
95th percentile per-packet one-way delay: 175.140 ms
Loss rate: 14.93%
```

Run 2: Report of Indigo-MusesC5 — Data Link

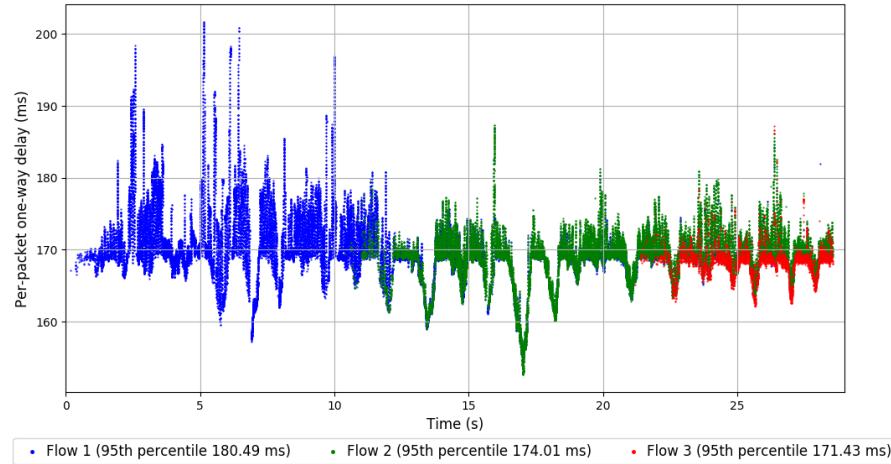
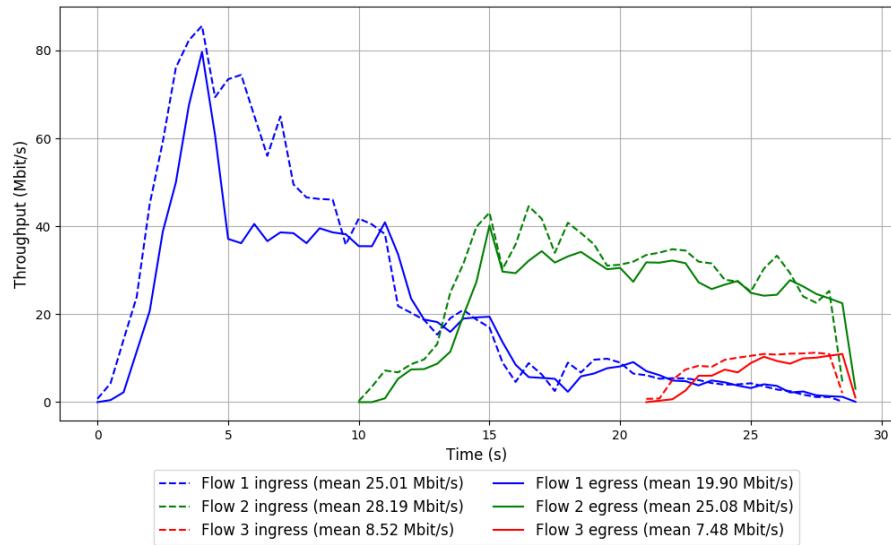


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-01-26 00:18:54
End at: 2019-01-26 00:19:24
Local clock offset: 0.412 ms
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2019-01-26 02:33:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.85 Mbit/s
95th percentile per-packet one-way delay: 177.991 ms
Loss rate: 17.18%
-- Flow 1:
Average throughput: 19.90 Mbit/s
95th percentile per-packet one-way delay: 180.489 ms
Loss rate: 21.06%
-- Flow 2:
Average throughput: 25.08 Mbit/s
95th percentile per-packet one-way delay: 174.015 ms
Loss rate: 12.12%
-- Flow 3:
Average throughput: 7.48 Mbit/s
95th percentile per-packet one-way delay: 171.430 ms
Loss rate: 14.72%
```

Run 3: Report of Indigo-MusesC5 — Data Link

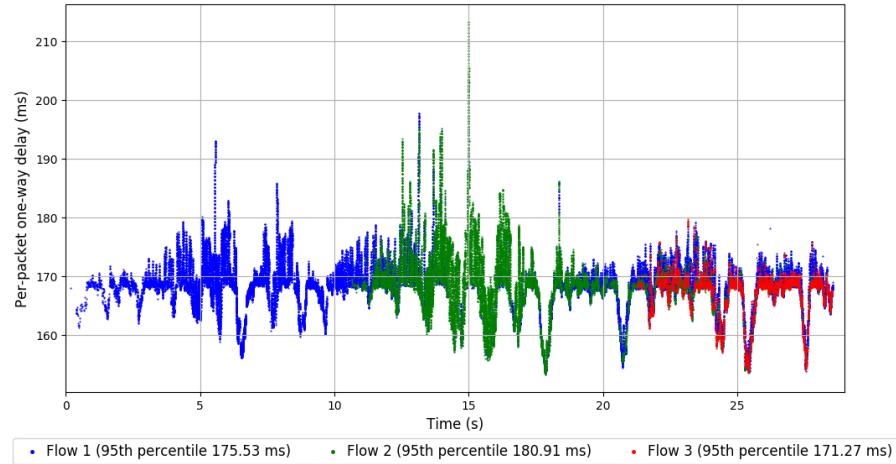
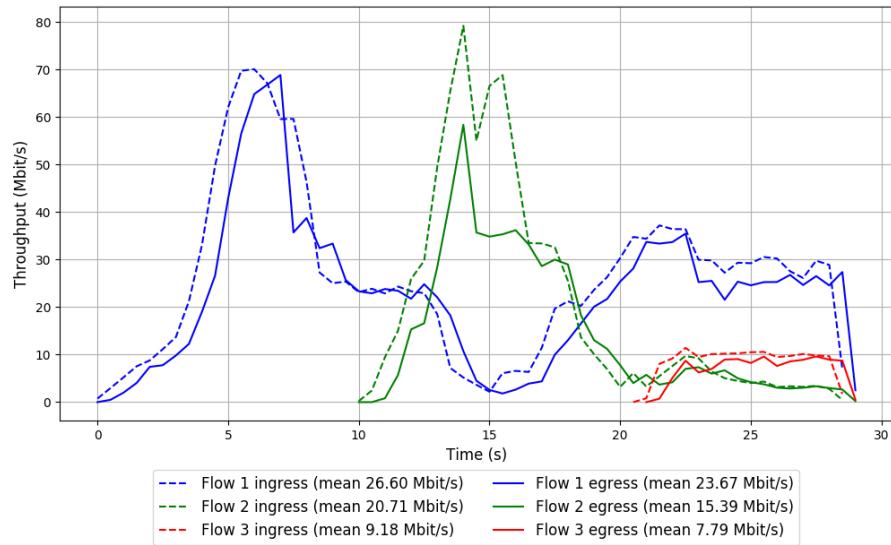


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-01-26 01:09:30
End at: 2019-01-26 01:10:00
Local clock offset: 5.558 ms
Remote clock offset: -1.434 ms

# Below is generated by plot.py at 2019-01-26 02:33:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.54 Mbit/s
95th percentile per-packet one-way delay: 176.880 ms
Loss rate: 16.71%
-- Flow 1:
Average throughput: 23.67 Mbit/s
95th percentile per-packet one-way delay: 175.535 ms
Loss rate: 11.70%
-- Flow 2:
Average throughput: 15.39 Mbit/s
95th percentile per-packet one-way delay: 180.909 ms
Loss rate: 26.62%
-- Flow 3:
Average throughput: 7.79 Mbit/s
95th percentile per-packet one-way delay: 171.274 ms
Loss rate: 17.45%
```

Run 4: Report of Indigo-MusesC5 — Data Link

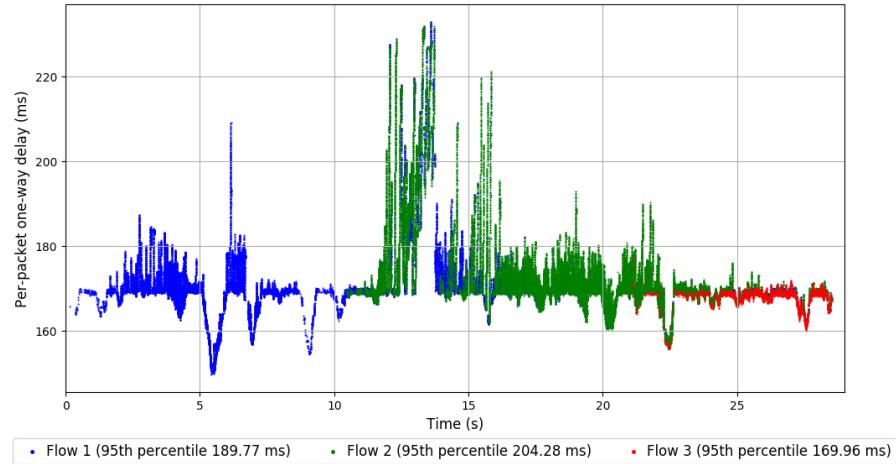
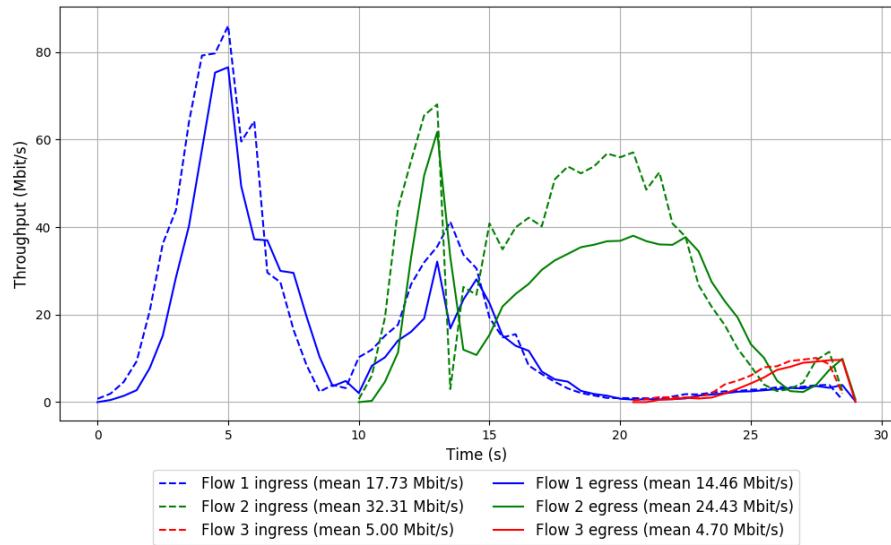


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-01-26 02:10:28
End at: 2019-01-26 02:10:58
Local clock offset: 1.63 ms
Remote clock offset: -1.157 ms

# Below is generated by plot.py at 2019-01-26 02:33:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.46 Mbit/s
95th percentile per-packet one-way delay: 199.268 ms
Loss rate: 21.96%
-- Flow 1:
Average throughput: 14.46 Mbit/s
95th percentile per-packet one-way delay: 189.773 ms
Loss rate: 19.07%
-- Flow 2:
Average throughput: 24.43 Mbit/s
95th percentile per-packet one-way delay: 204.280 ms
Loss rate: 25.30%
-- Flow 3:
Average throughput: 4.70 Mbit/s
95th percentile per-packet one-way delay: 169.962 ms
Loss rate: 8.58%
```

Run 5: Report of Indigo-MusesC5 — Data Link

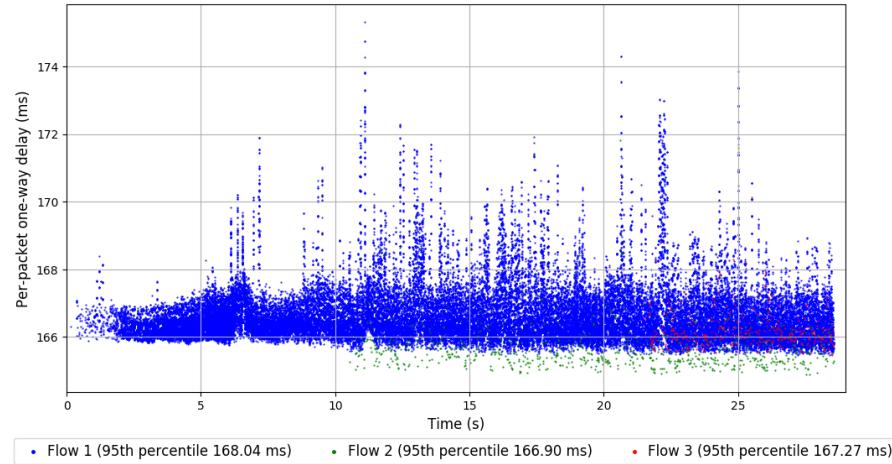
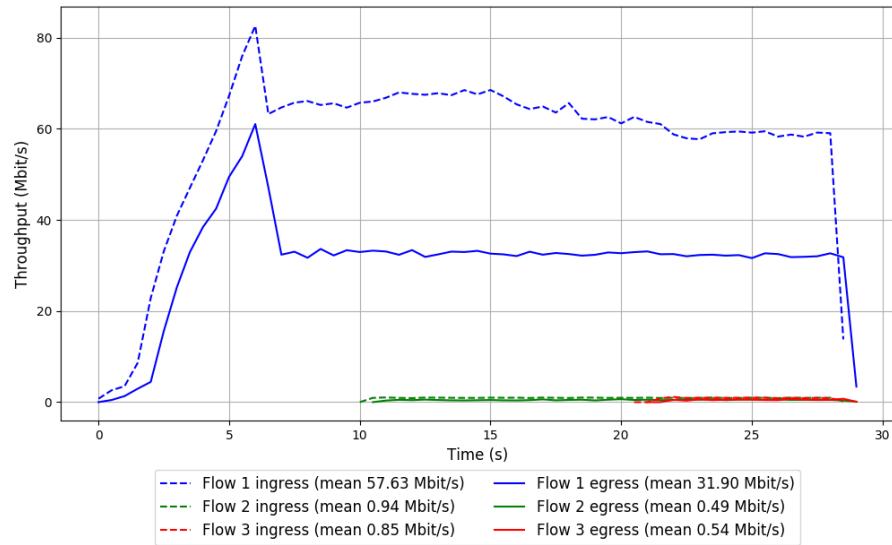


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-01-25 19:59:08
End at: 2019-01-25 19:59:38
Local clock offset: -2.841 ms
Remote clock offset: -8.9 ms

# Below is generated by plot.py at 2019-01-26 02:33:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 32.35 Mbit/s
95th percentile per-packet one-way delay: 168.028 ms
Loss rate: 45.10%
-- Flow 1:
Average throughput: 31.90 Mbit/s
95th percentile per-packet one-way delay: 168.036 ms
Loss rate: 45.08%
-- Flow 2:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 166.899 ms
Loss rate: 48.71%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 167.274 ms
Loss rate: 42.51%
```

Run 1: Report of Indigo-MusesD — Data Link

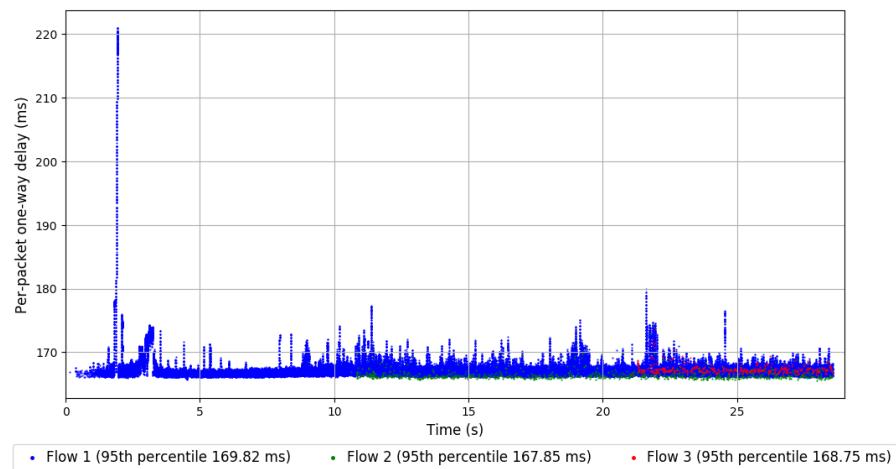
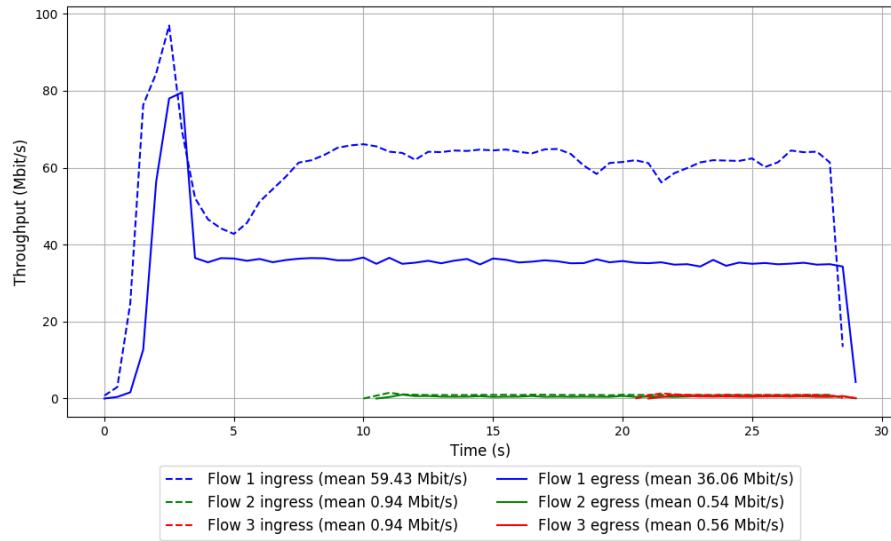


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-25 21:41:52
End at: 2019-01-25 21:42:22
Local clock offset: 1.662 ms
Remote clock offset: -1.887 ms

# Below is generated by plot.py at 2019-01-26 02:33:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.54 Mbit/s
95th percentile per-packet one-way delay: 169.802 ms
Loss rate: 39.83%
-- Flow 1:
Average throughput: 36.06 Mbit/s
95th percentile per-packet one-way delay: 169.822 ms
Loss rate: 39.79%
-- Flow 2:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 167.853 ms
Loss rate: 43.66%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 168.753 ms
Loss rate: 41.84%
```

Run 2: Report of Indigo-MusesD — Data Link

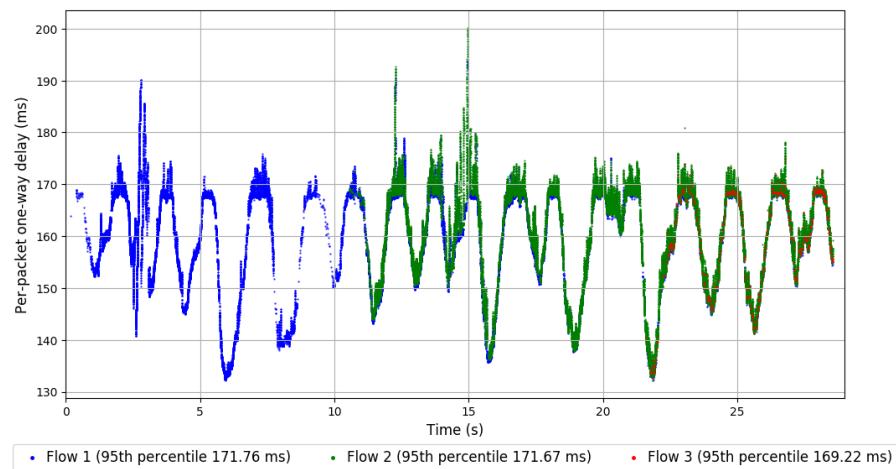
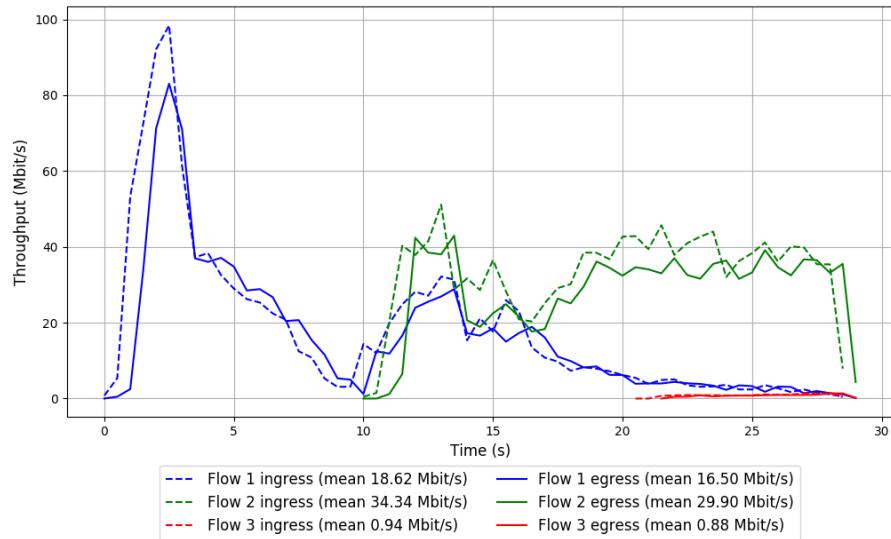


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-25 23:53:53
End at: 2019-01-25 23:54:23
Local clock offset: 16.316 ms
Remote clock offset: -1.073 ms

# Below is generated by plot.py at 2019-01-26 02:33:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.90 Mbit/s
95th percentile per-packet one-way delay: 171.702 ms
Loss rate: 13.04%
-- Flow 1:
Average throughput: 16.50 Mbit/s
95th percentile per-packet one-way delay: 171.765 ms
Loss rate: 12.05%
-- Flow 2:
Average throughput: 29.90 Mbit/s
95th percentile per-packet one-way delay: 171.674 ms
Loss rate: 13.84%
-- Flow 3:
Average throughput: 0.88 Mbit/s
95th percentile per-packet one-way delay: 169.215 ms
Loss rate: 14.83%
```

Run 3: Report of Indigo-MusesD — Data Link

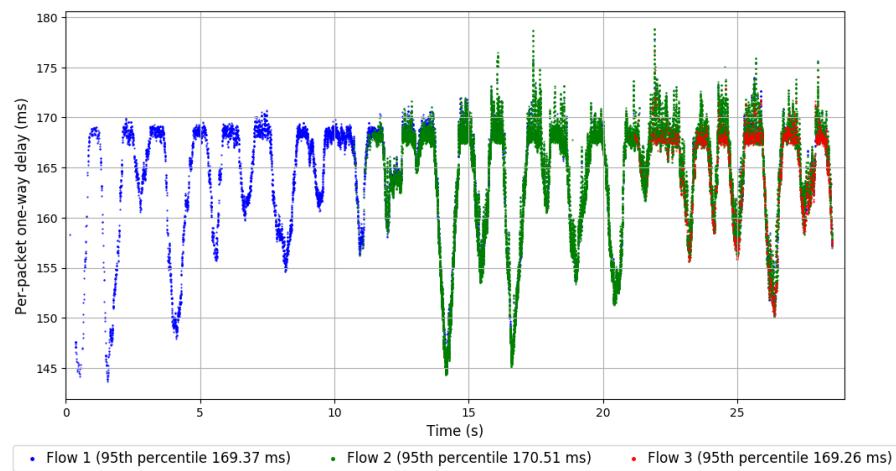
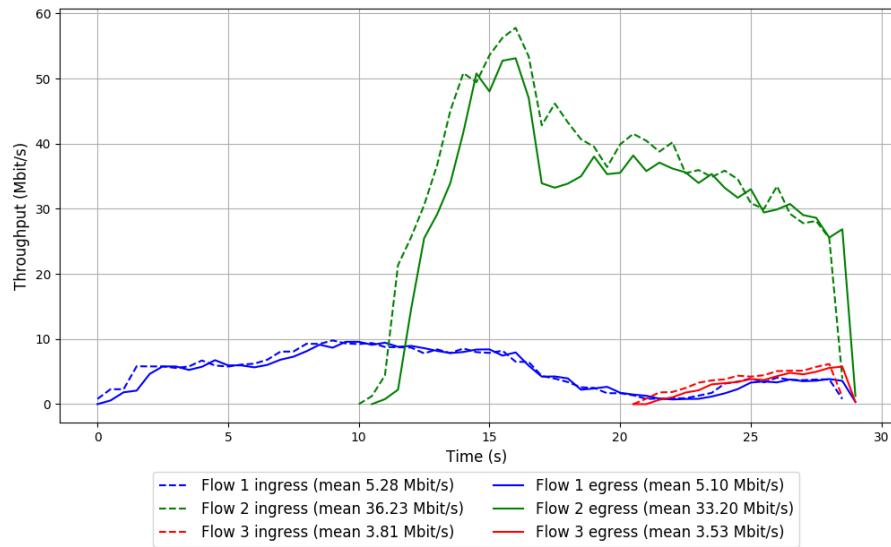


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-26 00:59:18
End at: 2019-01-26 00:59:48
Local clock offset: -0.109 ms
Remote clock offset: -1.219 ms

# Below is generated by plot.py at 2019-01-26 02:33:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.12 Mbit/s
95th percentile per-packet one-way delay: 170.245 ms
Loss rate: 8.53%
-- Flow 1:
Average throughput: 5.10 Mbit/s
95th percentile per-packet one-way delay: 169.366 ms
Loss rate: 3.97%
-- Flow 2:
Average throughput: 33.20 Mbit/s
95th percentile per-packet one-way delay: 170.509 ms
Loss rate: 9.50%
-- Flow 3:
Average throughput: 3.53 Mbit/s
95th percentile per-packet one-way delay: 169.263 ms
Loss rate: 10.04%
```

Run 4: Report of Indigo-MusesD — Data Link

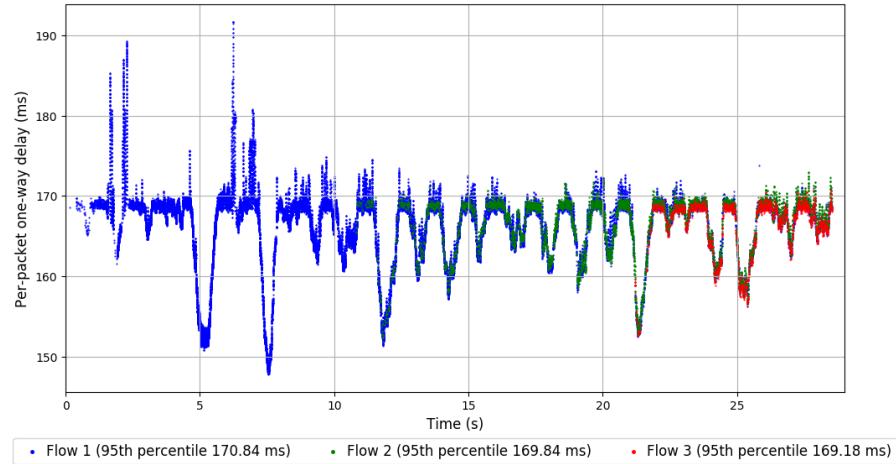
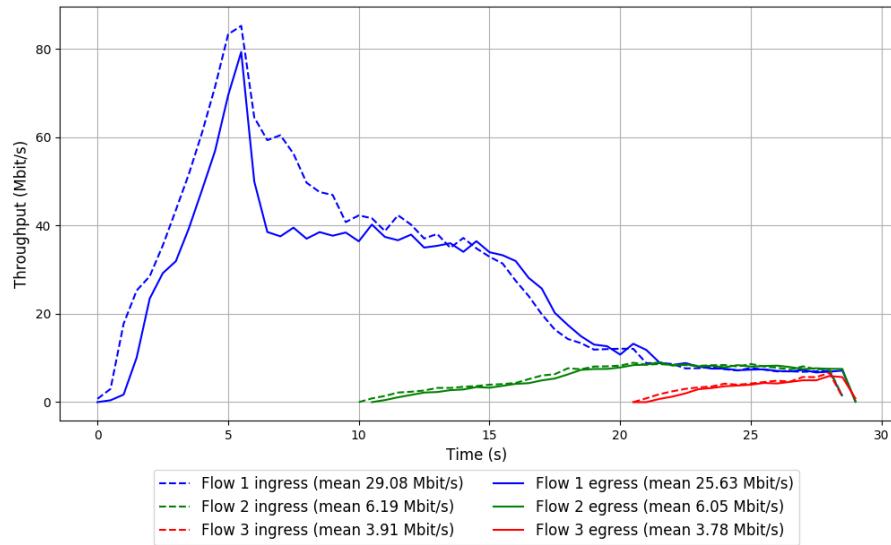


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-26 01:55:03
End at: 2019-01-26 01:55:33
Local clock offset: 2.54 ms
Remote clock offset: -1.378 ms

# Below is generated by plot.py at 2019-01-26 02:33:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.45 Mbit/s
95th percentile per-packet one-way delay: 170.567 ms
Loss rate: 11.35%
-- Flow 1:
Average throughput: 25.63 Mbit/s
95th percentile per-packet one-way delay: 170.835 ms
Loss rate: 12.60%
-- Flow 2:
Average throughput: 6.05 Mbit/s
95th percentile per-packet one-way delay: 169.841 ms
Loss rate: 3.50%
-- Flow 3:
Average throughput: 3.78 Mbit/s
95th percentile per-packet one-way delay: 169.177 ms
Loss rate: 6.12%
```

Run 5: Report of Indigo-MusesD — Data Link

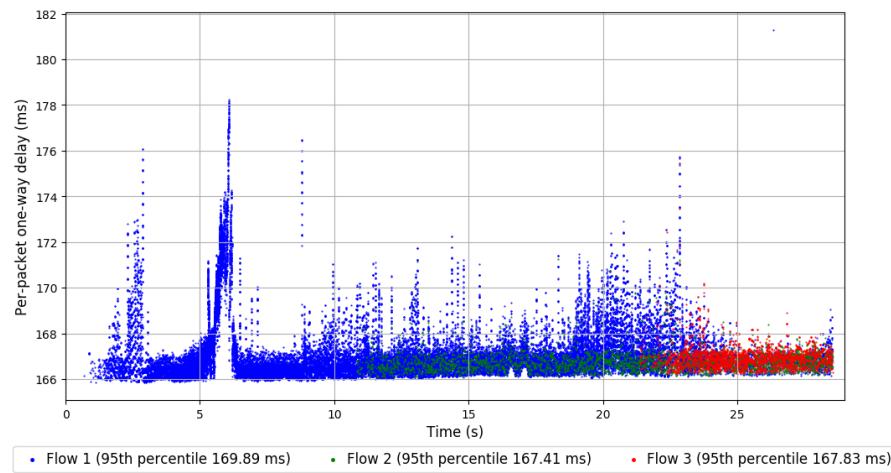
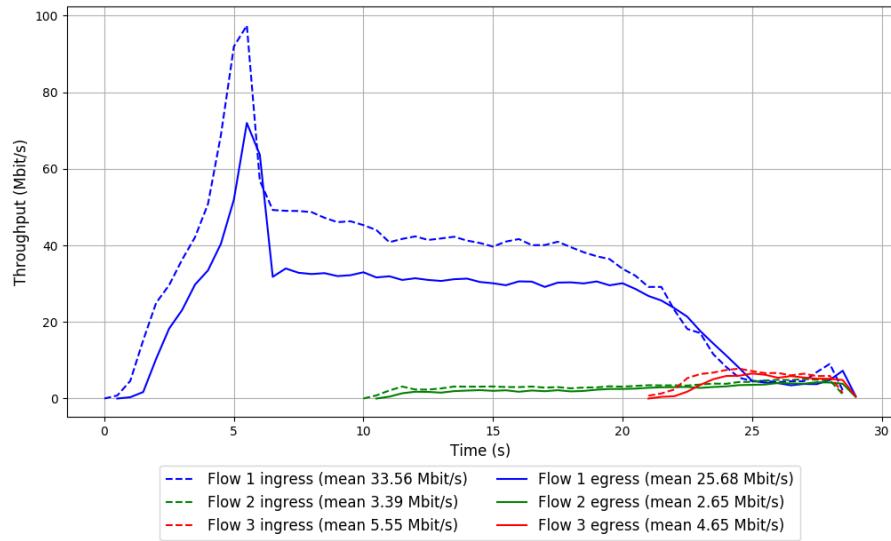


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-01-25 19:37:47
End at: 2019-01-25 19:38:17
Local clock offset: 7.437 ms
Remote clock offset: -11.606 ms

# Below is generated by plot.py at 2019-01-26 02:33:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.60 Mbit/s
95th percentile per-packet one-way delay: 169.669 ms
Loss rate: 25.03%
-- Flow 1:
Average throughput: 25.68 Mbit/s
95th percentile per-packet one-way delay: 169.889 ms
Loss rate: 25.45%
-- Flow 2:
Average throughput: 2.65 Mbit/s
95th percentile per-packet one-way delay: 167.408 ms
Loss rate: 22.77%
-- Flow 3:
Average throughput: 4.65 Mbit/s
95th percentile per-packet one-way delay: 167.834 ms
Loss rate: 18.79%
```

Run 1: Report of Indigo-MusesT — Data Link

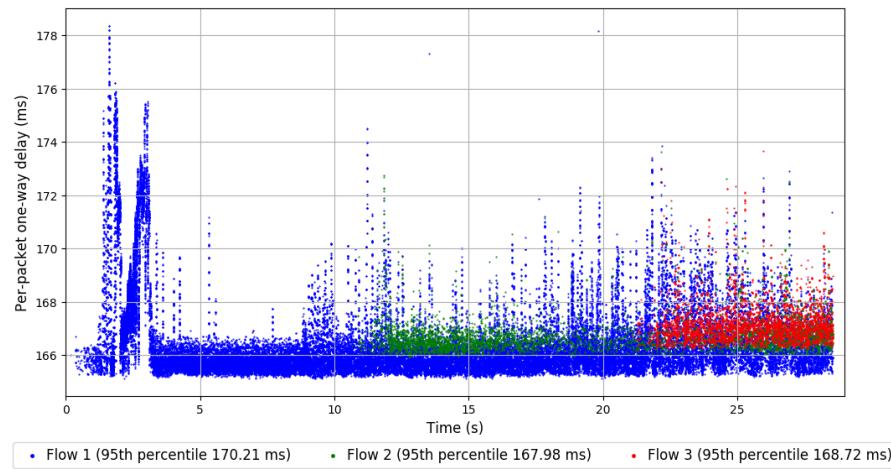
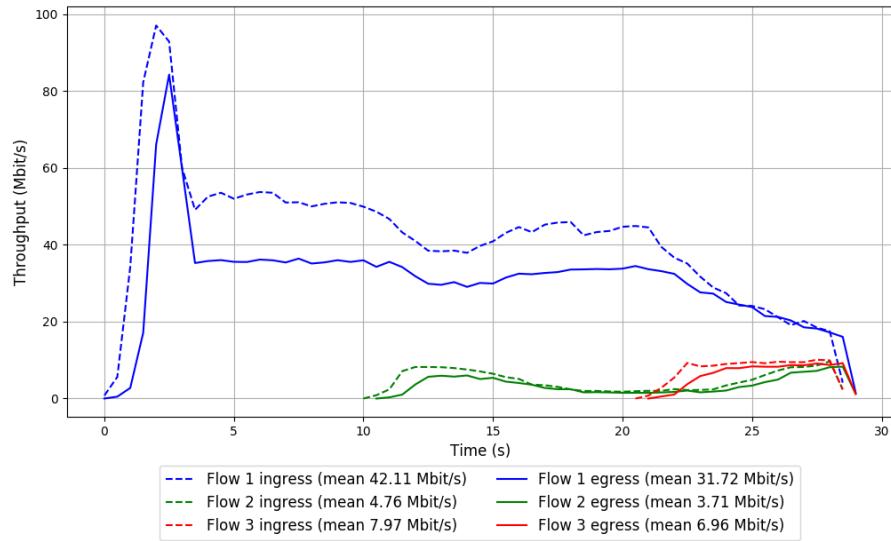


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-25 21:27:01
End at: 2019-01-25 21:27:31
Local clock offset: 1.415 ms
Remote clock offset: -3.17 ms

# Below is generated by plot.py at 2019-01-26 02:33:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.89 Mbit/s
95th percentile per-packet one-way delay: 169.868 ms
Loss rate: 24.68%
-- Flow 1:
Average throughput: 31.72 Mbit/s
95th percentile per-packet one-way delay: 170.212 ms
Loss rate: 25.27%
-- Flow 2:
Average throughput: 3.71 Mbit/s
95th percentile per-packet one-way delay: 167.980 ms
Loss rate: 23.14%
-- Flow 3:
Average throughput: 6.96 Mbit/s
95th percentile per-packet one-way delay: 168.722 ms
Loss rate: 15.26%
```

Run 2: Report of Indigo-MusesT — Data Link

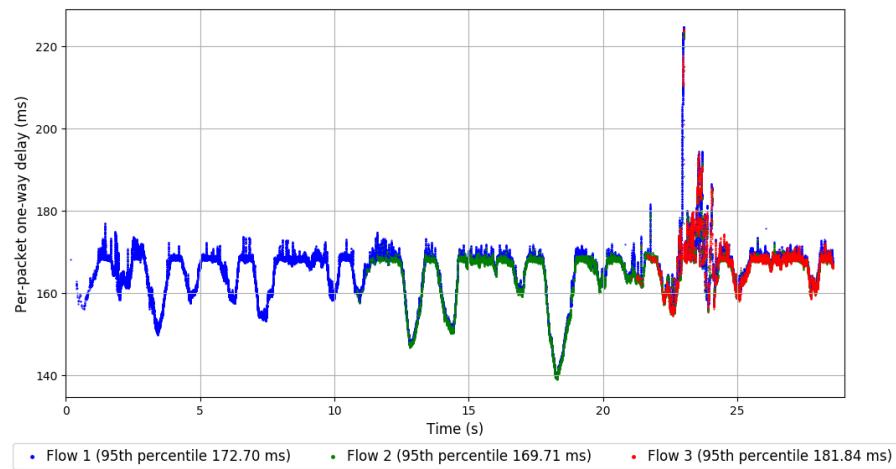
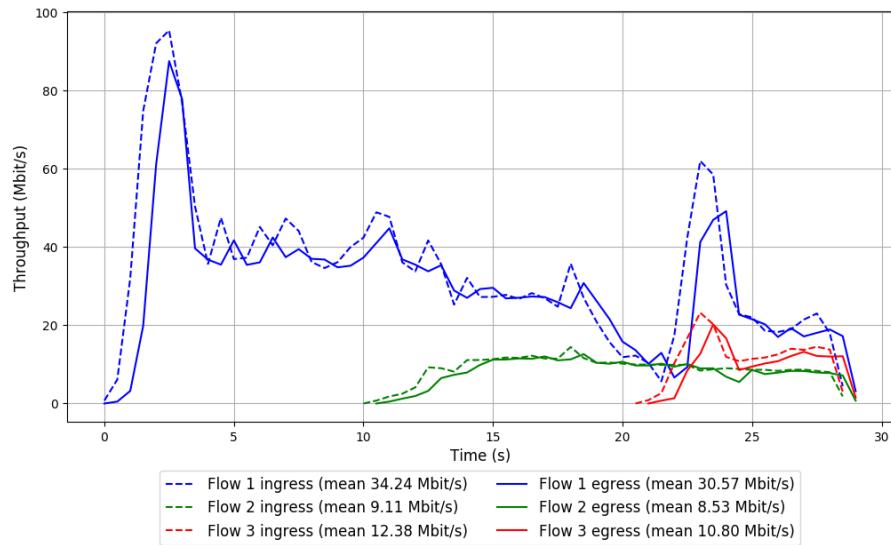


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-25 23:38:29
End at: 2019-01-25 23:38:59
Local clock offset: 16.346 ms
Remote clock offset: -1.877 ms

# Below is generated by plot.py at 2019-01-26 02:33:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.81 Mbit/s
95th percentile per-packet one-way delay: 173.108 ms
Loss rate: 11.18%
-- Flow 1:
Average throughput: 30.57 Mbit/s
95th percentile per-packet one-way delay: 172.696 ms
Loss rate: 11.41%
-- Flow 2:
Average throughput: 8.53 Mbit/s
95th percentile per-packet one-way delay: 169.711 ms
Loss rate: 7.46%
-- Flow 3:
Average throughput: 10.80 Mbit/s
95th percentile per-packet one-way delay: 181.839 ms
Loss rate: 15.24%
```

Run 3: Report of Indigo-MusesT — Data Link

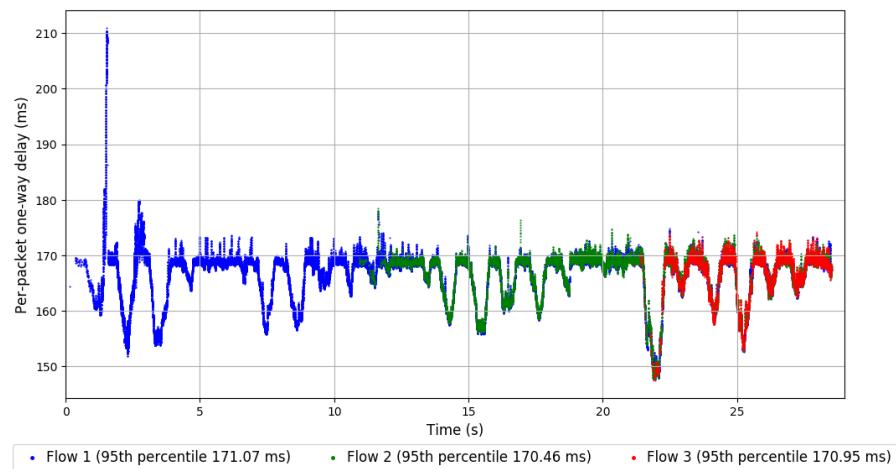
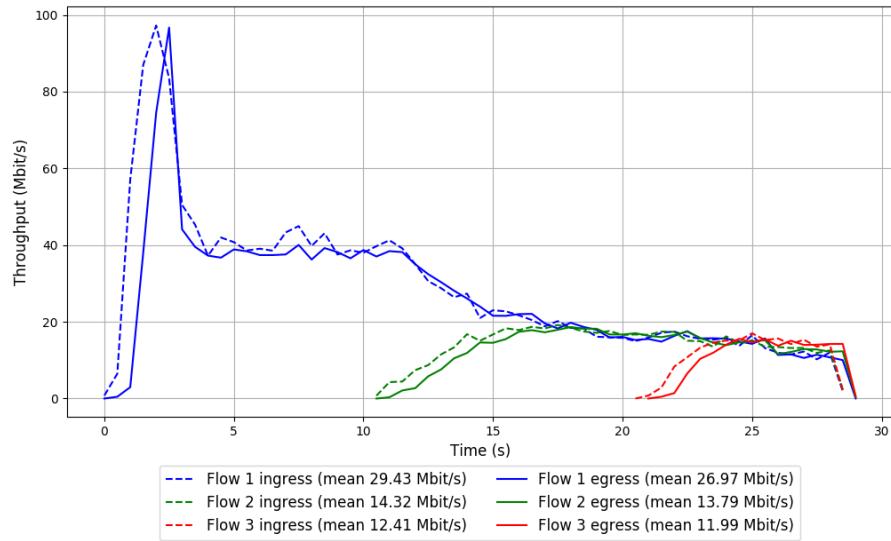


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-26 00:54:43
End at: 2019-01-26 00:55:13
Local clock offset: 0.029 ms
Remote clock offset: -1.15 ms

# Below is generated by plot.py at 2019-01-26 02:33:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.73 Mbit/s
95th percentile per-packet one-way delay: 170.862 ms
Loss rate: 7.95%
-- Flow 1:
Average throughput: 26.97 Mbit/s
95th percentile per-packet one-way delay: 171.071 ms
Loss rate: 9.10%
-- Flow 2:
Average throughput: 13.79 Mbit/s
95th percentile per-packet one-way delay: 170.460 ms
Loss rate: 4.87%
-- Flow 3:
Average throughput: 11.99 Mbit/s
95th percentile per-packet one-way delay: 170.954 ms
Loss rate: 6.19%
```

Run 4: Report of Indigo-MusesT — Data Link

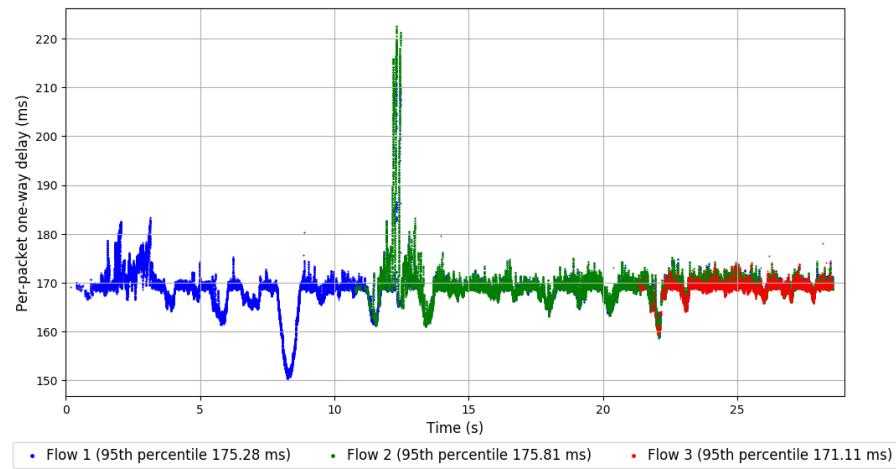
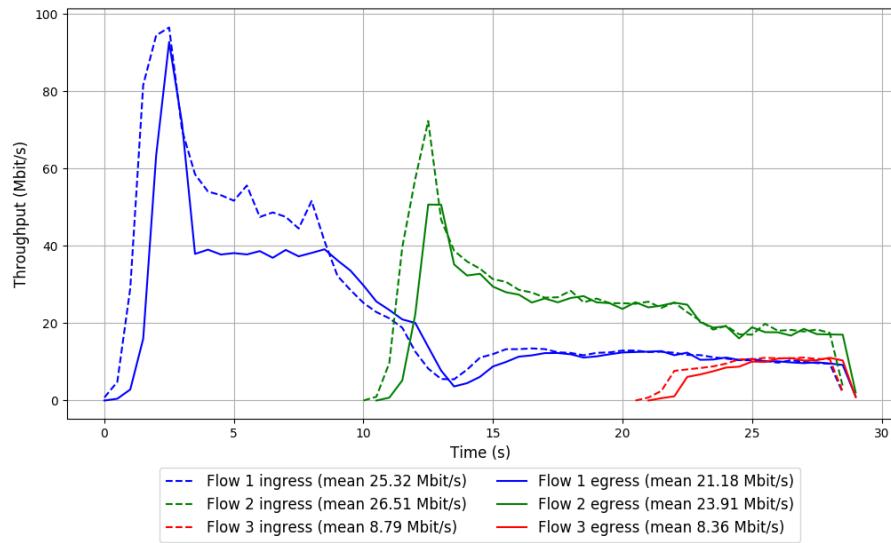


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-26 01:49:32
End at: 2019-01-26 01:50:02
Local clock offset: 2.956 ms
Remote clock offset: -1.088 ms

# Below is generated by plot.py at 2019-01-26 02:34:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.54 Mbit/s
95th percentile per-packet one-way delay: 175.201 ms
Loss rate: 14.21%
-- Flow 1:
Average throughput: 21.18 Mbit/s
95th percentile per-packet one-way delay: 175.285 ms
Loss rate: 17.01%
-- Flow 2:
Average throughput: 23.91 Mbit/s
95th percentile per-packet one-way delay: 175.813 ms
Loss rate: 10.91%
-- Flow 3:
Average throughput: 8.36 Mbit/s
95th percentile per-packet one-way delay: 171.107 ms
Loss rate: 7.76%
```

Run 5: Report of Indigo-MusesT — Data Link

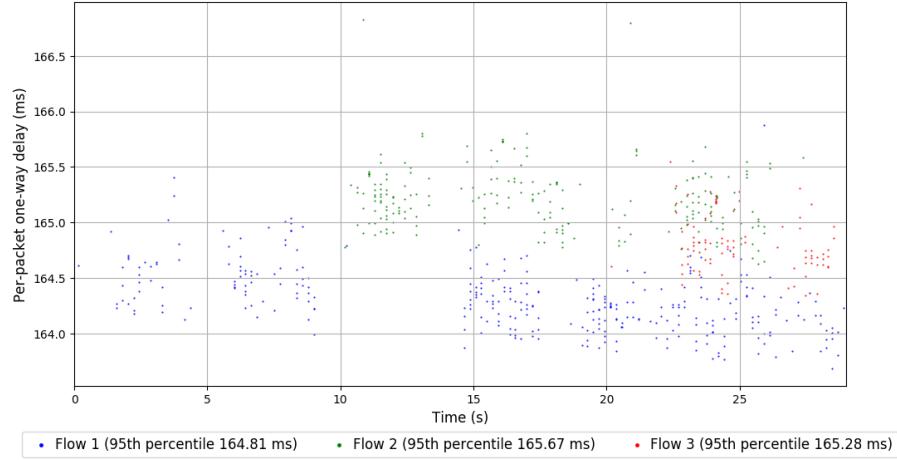
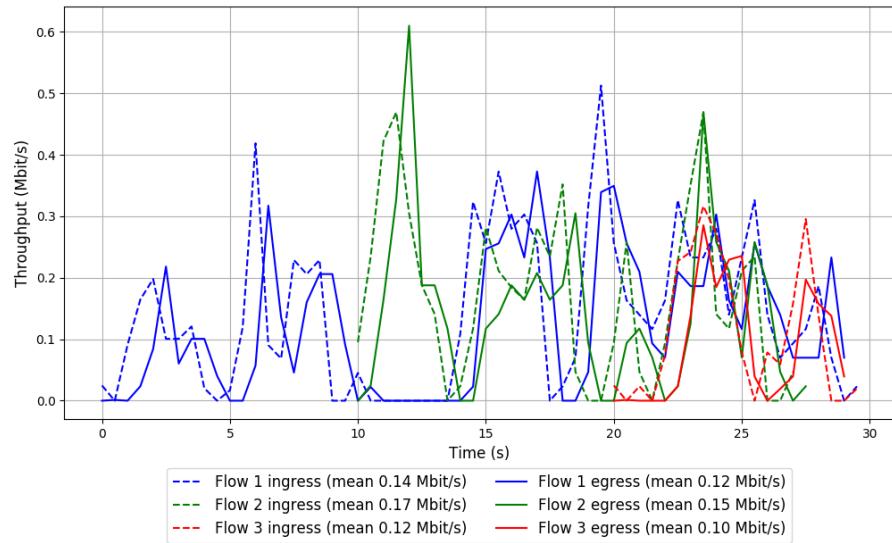


Run 1: Statistics of LEDBAT

```
Start at: 2019-01-25 19:19:39
End at: 2019-01-25 19:20:09
Local clock offset: 18.558 ms
Remote clock offset: 2.452 ms

# Below is generated by plot.py at 2019-01-26 02:34:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 165.496 ms
Loss rate: 15.56%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 164.809 ms
Loss rate: 14.47%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 165.674 ms
Loss rate: 14.89%
-- Flow 3:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 165.278 ms
Loss rate: 21.59%
```

Run 1: Report of LEDBAT — Data Link

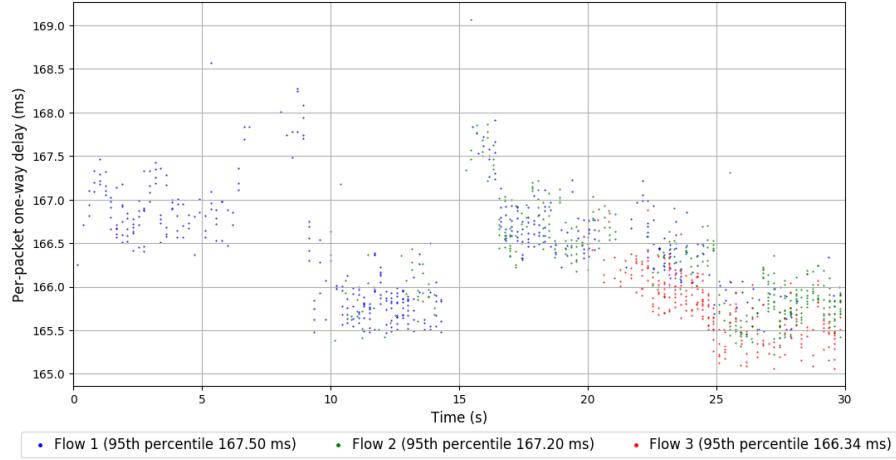
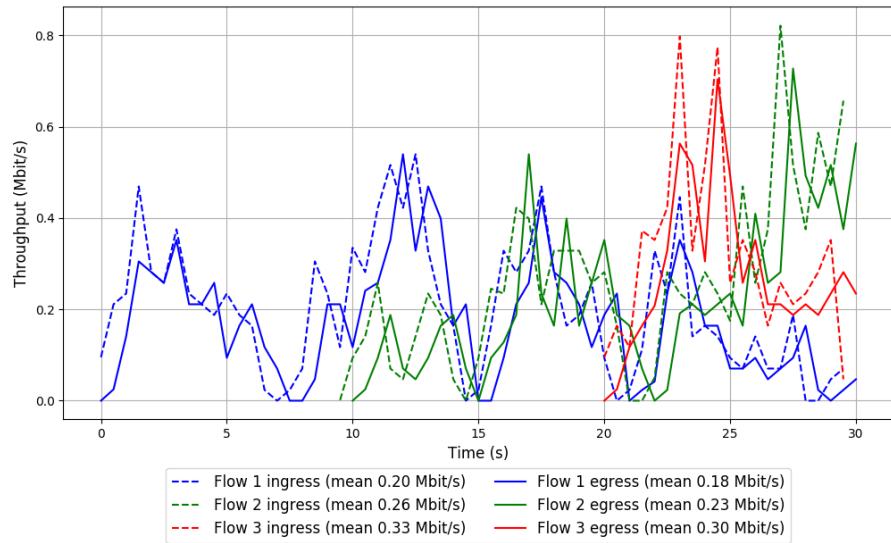


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-25 21:07:25
End at: 2019-01-25 21:07:55
Local clock offset: 1.554 ms
Remote clock offset: -1.821 ms

# Below is generated by plot.py at 2019-01-26 02:34:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 167.261 ms
Loss rate: 12.07%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 167.505 ms
Loss rate: 12.84%
-- Flow 2:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 167.199 ms
Loss rate: 12.94%
-- Flow 3:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 166.337 ms
Loss rate: 9.19%
```

Run 2: Report of LEDBAT — Data Link

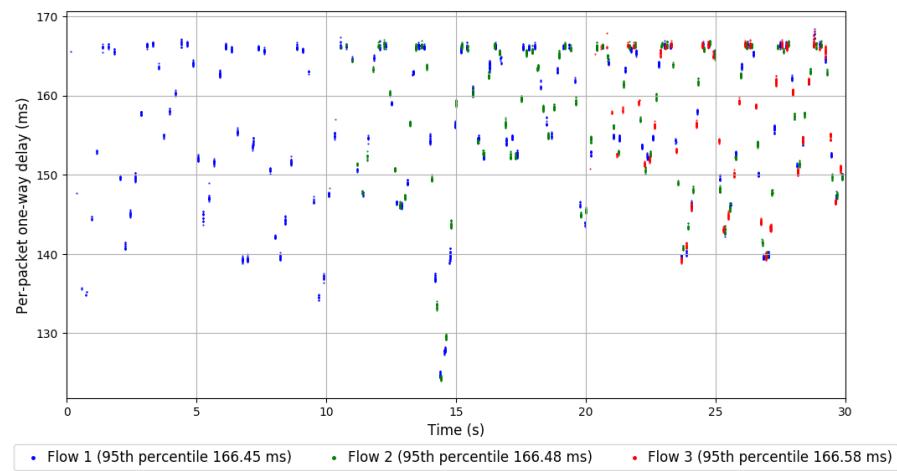
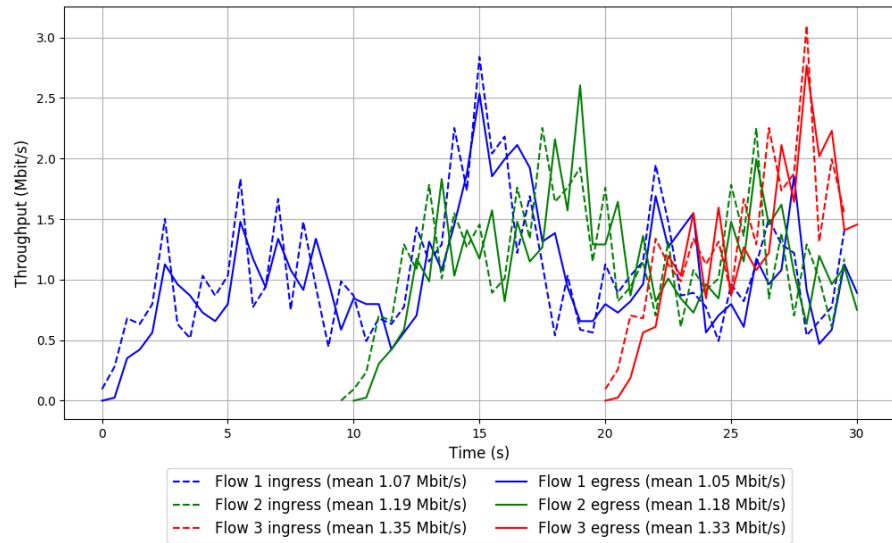


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-25 22:57:39
End at: 2019-01-25 22:58:09
Local clock offset: 0.014 ms
Remote clock offset: 0.551 ms

# Below is generated by plot.py at 2019-01-26 02:34:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 166.495 ms
Loss rate: 2.43%
-- Flow 1:
Average throughput: 1.05 Mbit/s
95th percentile per-packet one-way delay: 166.448 ms
Loss rate: 2.27%
-- Flow 2:
Average throughput: 1.18 Mbit/s
95th percentile per-packet one-way delay: 166.484 ms
Loss rate: 1.97%
-- Flow 3:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 166.583 ms
Loss rate: 3.61%
```

Run 3: Report of LEDBAT — Data Link

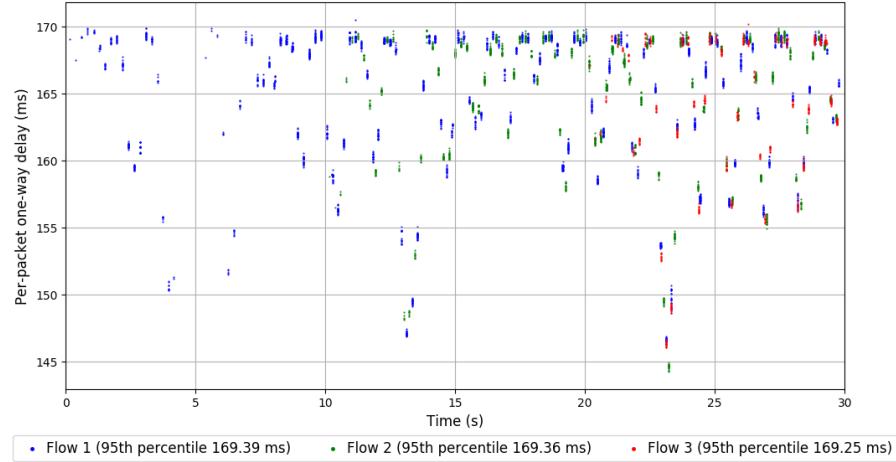
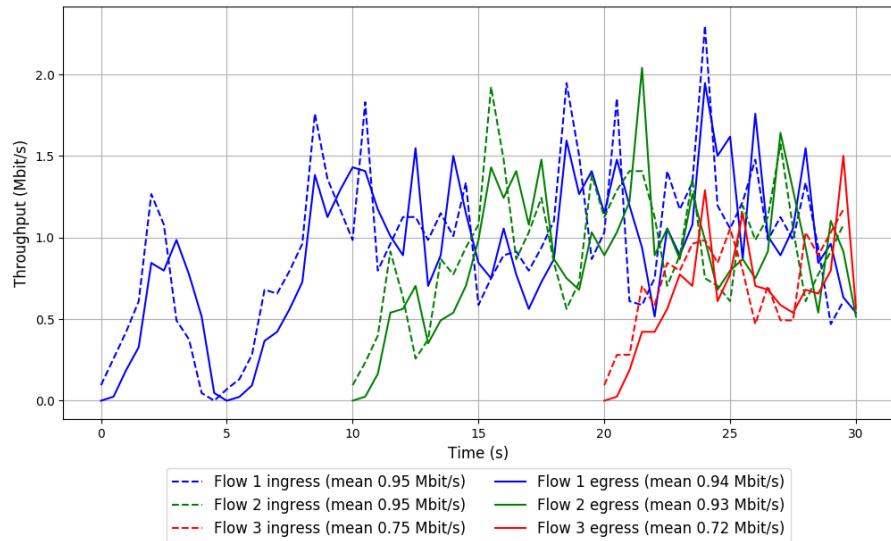


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-26 00:41:03
End at: 2019-01-26 00:41:33
Local clock offset: 0.217 ms
Remote clock offset: -1.28 ms

# Below is generated by plot.py at 2019-01-26 02:34:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.78 Mbit/s
95th percentile per-packet one-way delay: 169.363 ms
Loss rate: 2.77%
-- Flow 1:
Average throughput: 0.94 Mbit/s
95th percentile per-packet one-way delay: 169.388 ms
Loss rate: 1.82%
-- Flow 2:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 169.360 ms
Loss rate: 2.89%
-- Flow 3:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 169.246 ms
Loss rate: 6.14%
```

Run 4: Report of LEDBAT — Data Link

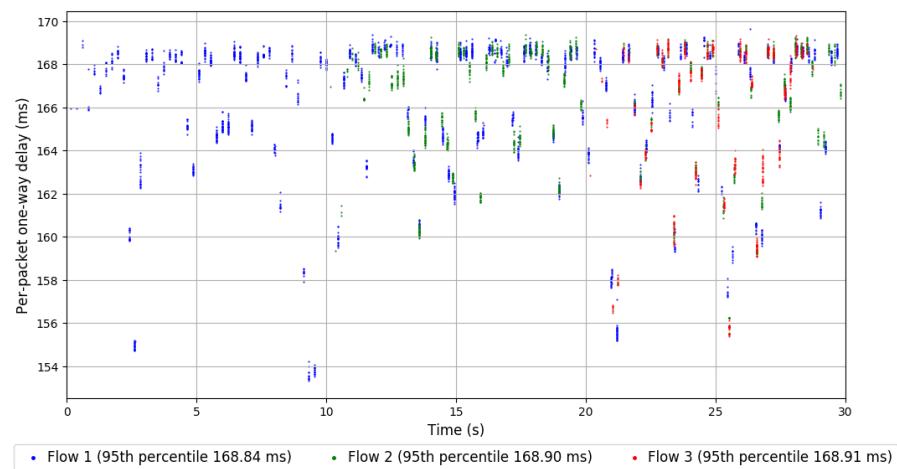
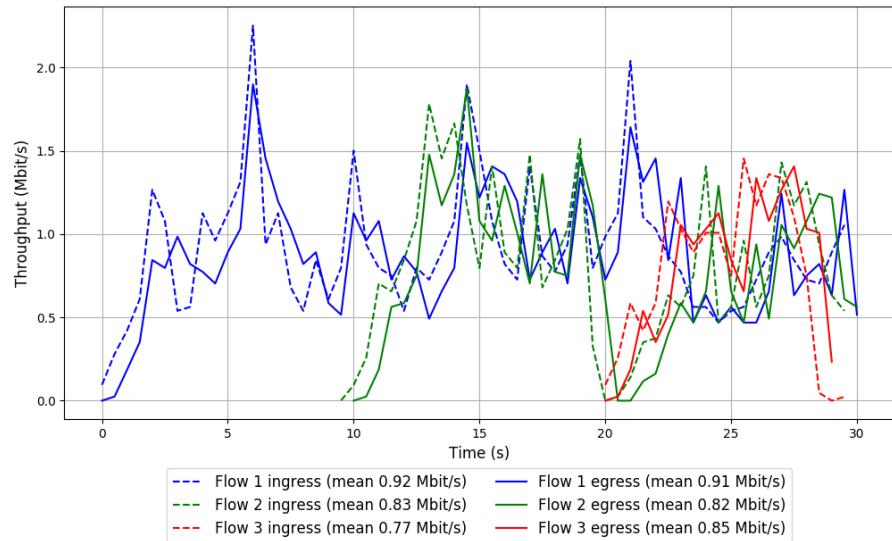


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-26 01:36:20
End at: 2019-01-26 01:36:50
Local clock offset: 5.265 ms
Remote clock offset: -0.253 ms

# Below is generated by plot.py at 2019-01-26 02:34:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.69 Mbit/s
95th percentile per-packet one-way delay: 168.873 ms
Loss rate: 2.68%
-- Flow 1:
Average throughput: 0.91 Mbit/s
95th percentile per-packet one-way delay: 168.843 ms
Loss rate: 2.39%
-- Flow 2:
Average throughput: 0.82 Mbit/s
95th percentile per-packet one-way delay: 168.901 ms
Loss rate: 3.05%
-- Flow 3:
Average throughput: 0.85 Mbit/s
95th percentile per-packet one-way delay: 168.908 ms
Loss rate: 2.95%
```

Run 5: Report of LEDBAT — Data Link

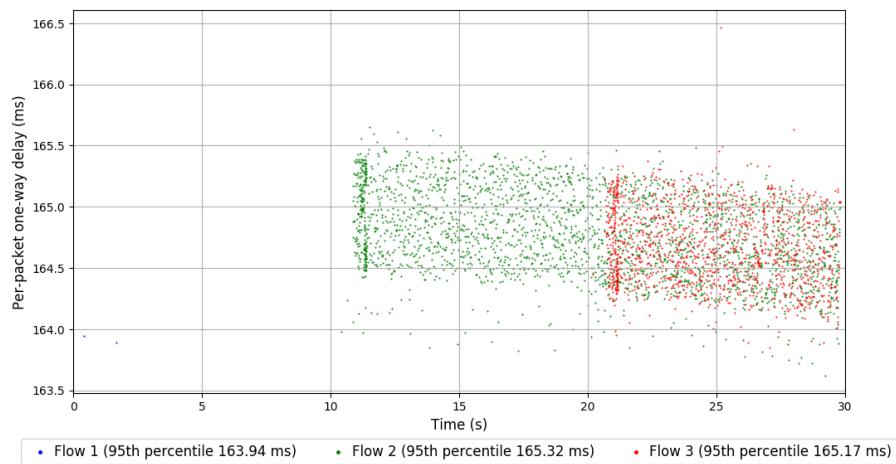
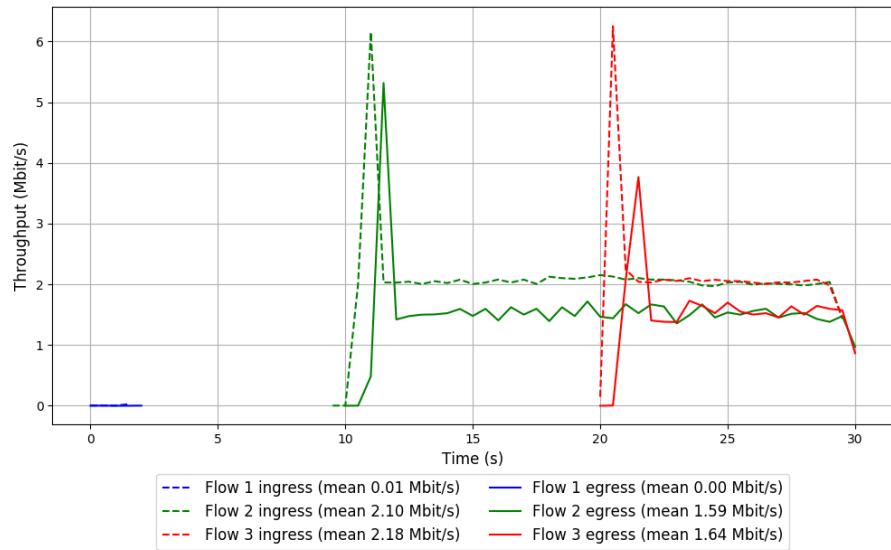


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-01-25 19:24:20
End at: 2019-01-25 19:24:50
Local clock offset: 19.896 ms
Remote clock offset: -1.281 ms

# Below is generated by plot.py at 2019-01-26 02:34:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.58 Mbit/s
95th percentile per-packet one-way delay: 165.282 ms
Loss rate: 26.28%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 163.944 ms
Loss rate: 89.32%
-- Flow 2:
Average throughput: 1.59 Mbit/s
95th percentile per-packet one-way delay: 165.316 ms
Loss rate: 26.09%
-- Flow 3:
Average throughput: 1.64 Mbit/s
95th percentile per-packet one-way delay: 165.166 ms
Loss rate: 26.58%
```

Run 1: Report of PCC-Allegro — Data Link

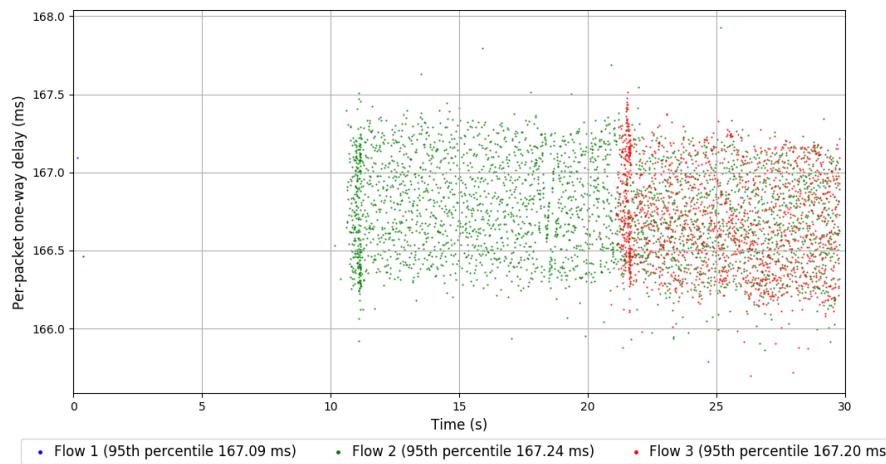
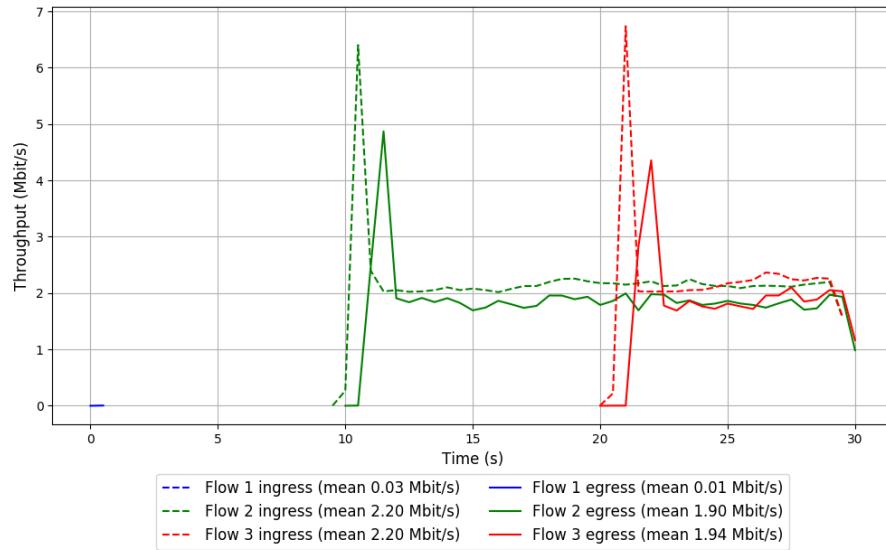


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-25 21:11:49
End at: 2019-01-25 21:12:19
Local clock offset: 1.669 ms
Remote clock offset: -2.751 ms

# Below is generated by plot.py at 2019-01-26 02:34:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 167.224 ms
Loss rate: 14.88%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 167.092 ms
Loss rate: 85.42%
-- Flow 2:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 167.236 ms
Loss rate: 14.33%
-- Flow 3:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 167.196 ms
Loss rate: 15.95%
```

Run 2: Report of PCC-Allegro — Data Link

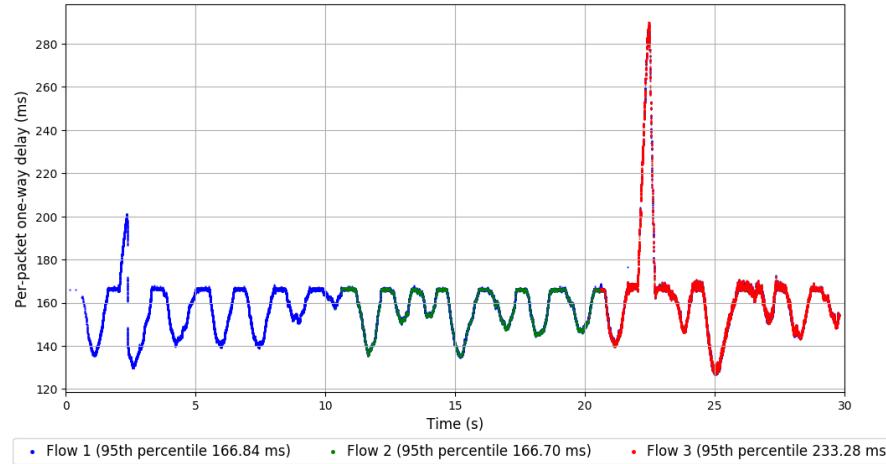
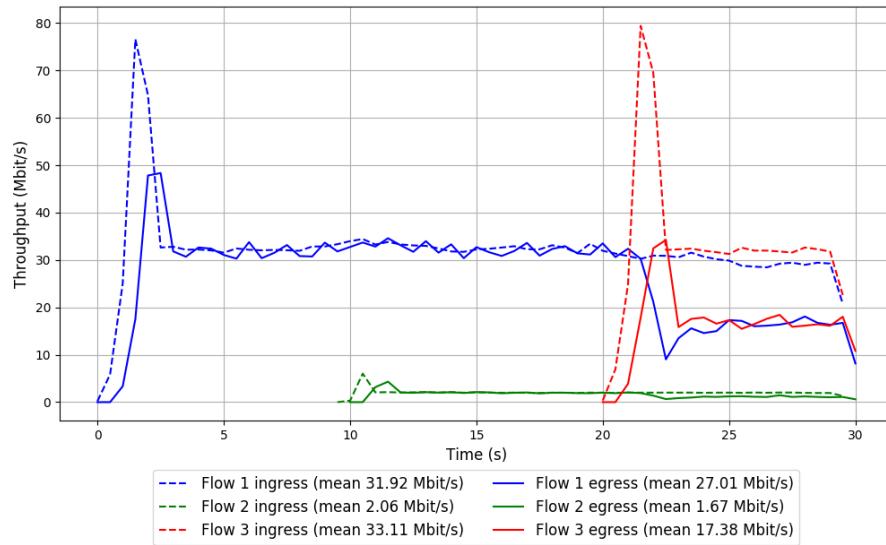


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-25 23:03:56
End at: 2019-01-25 23:04:26
Local clock offset: 6.16 ms
Remote clock offset: -0.365 ms

# Below is generated by plot.py at 2019-01-26 02:34:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.77 Mbit/s
95th percentile per-packet one-way delay: 168.396 ms
Loss rate: 24.18%
-- Flow 1:
Average throughput: 27.01 Mbit/s
95th percentile per-packet one-way delay: 166.835 ms
Loss rate: 16.00%
-- Flow 2:
Average throughput: 1.67 Mbit/s
95th percentile per-packet one-way delay: 166.701 ms
Loss rate: 19.89%
-- Flow 3:
Average throughput: 17.38 Mbit/s
95th percentile per-packet one-way delay: 233.277 ms
Loss rate: 48.62%
```

Run 3: Report of PCC-Allegro — Data Link

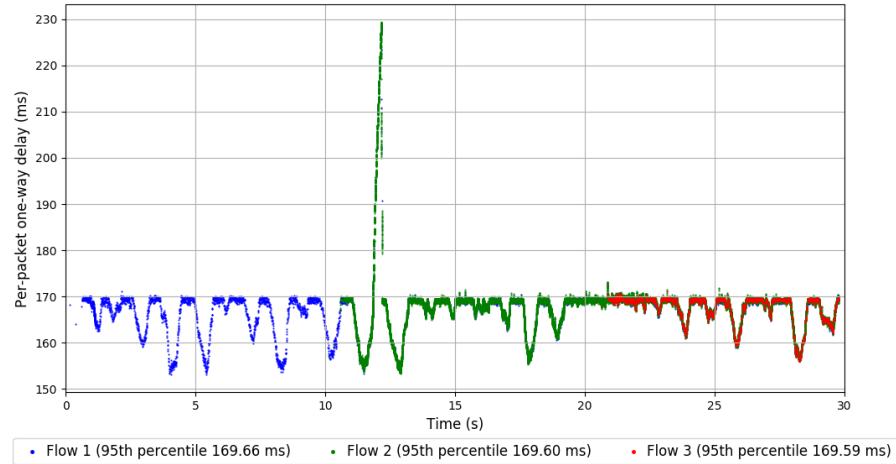
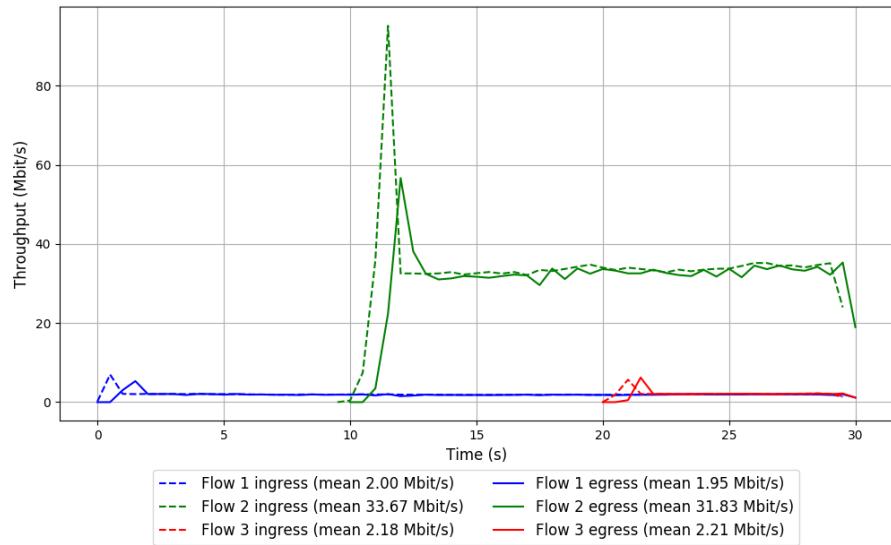


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-26 00:45:09
End at: 2019-01-26 00:45:39
Local clock offset: 0.173 ms
Remote clock offset: -1.665 ms

# Below is generated by plot.py at 2019-01-26 02:34:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.75 Mbit/s
95th percentile per-packet one-way delay: 169.606 ms
Loss rate: 6.17%
-- Flow 1:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 169.660 ms
Loss rate: 3.47%
-- Flow 2:
Average throughput: 31.83 Mbit/s
95th percentile per-packet one-way delay: 169.599 ms
Loss rate: 6.49%
-- Flow 3:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 169.585 ms
Loss rate: 3.72%
```

Run 4: Report of PCC-Allegro — Data Link

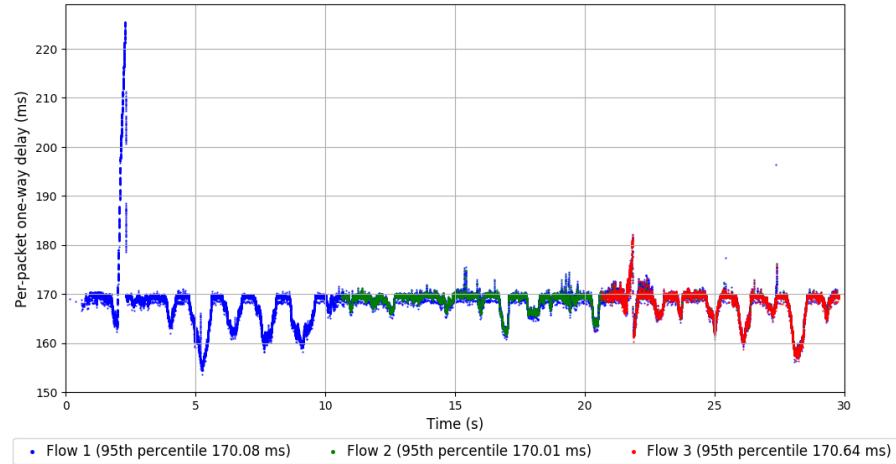
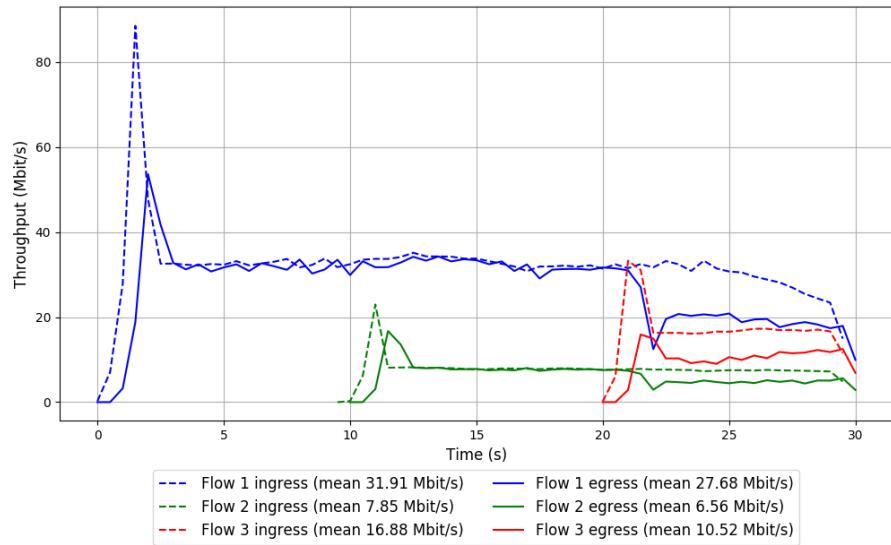


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-26 01:40:28
End at: 2019-01-26 01:40:58
Local clock offset: 4.233 ms
Remote clock offset: -1.29 ms

# Below is generated by plot.py at 2019-01-26 02:34:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.44 Mbit/s
95th percentile per-packet one-way delay: 170.104 ms
Loss rate: 17.63%
-- Flow 1:
Average throughput: 27.68 Mbit/s
95th percentile per-packet one-way delay: 170.081 ms
Loss rate: 13.91%
-- Flow 2:
Average throughput: 6.56 Mbit/s
95th percentile per-packet one-way delay: 170.011 ms
Loss rate: 17.41%
-- Flow 3:
Average throughput: 10.52 Mbit/s
95th percentile per-packet one-way delay: 170.643 ms
Loss rate: 39.13%
```

Run 5: Report of PCC-Allegro — Data Link

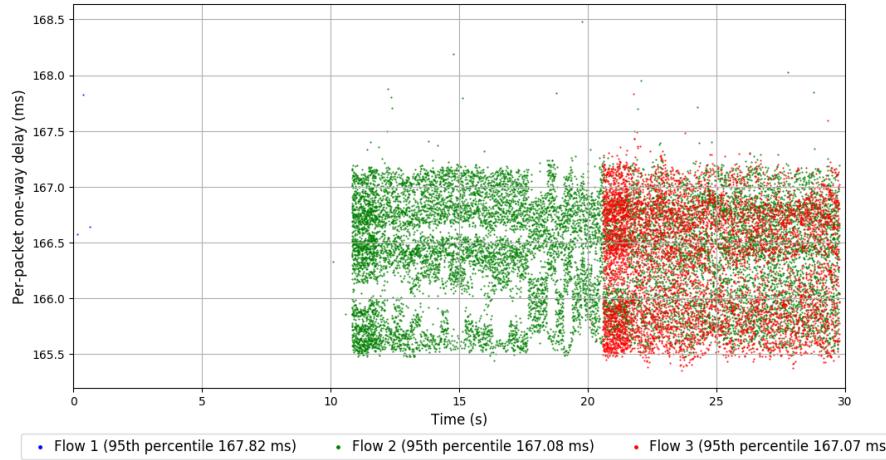
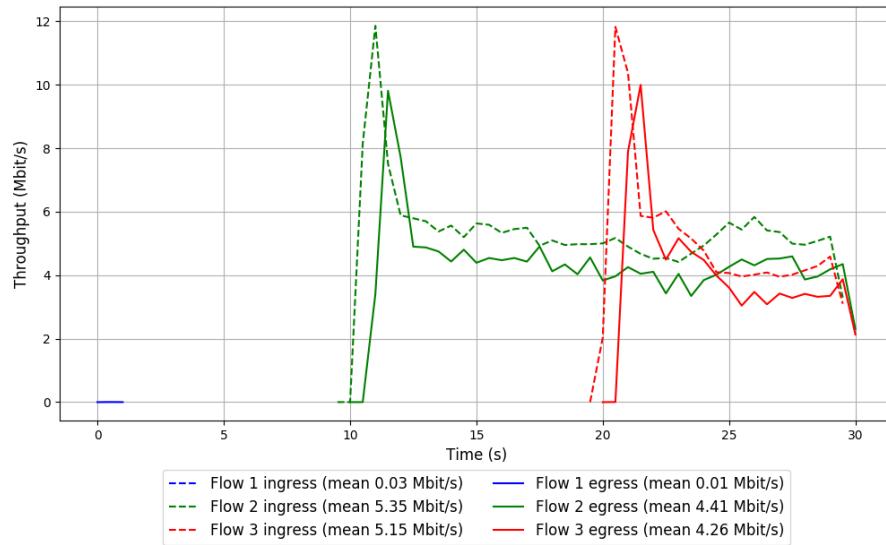


Run 1: Statistics of PCC-Expr

```
Start at: 2019-01-25 20:48:05
End at: 2019-01-25 20:48:35
Local clock offset: 1.455 ms
Remote clock offset: -4.111 ms

# Below is generated by plot.py at 2019-01-26 02:34:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 167.078 ms
Loss rate: 18.77%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 167.824 ms
Loss rate: 80.95%
-- Flow 2:
Average throughput: 4.41 Mbit/s
95th percentile per-packet one-way delay: 167.081 ms
Loss rate: 18.59%
-- Flow 3:
Average throughput: 4.26 Mbit/s
95th percentile per-packet one-way delay: 167.068 ms
Loss rate: 19.14%
```

Run 1: Report of PCC-Expr — Data Link

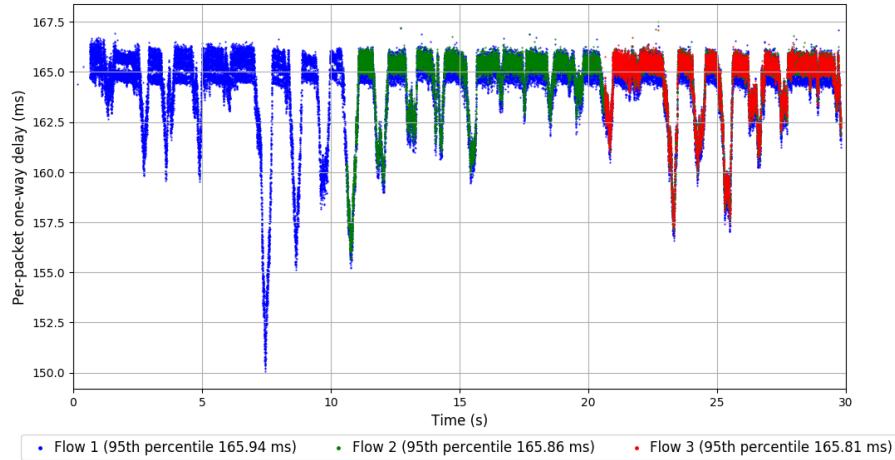
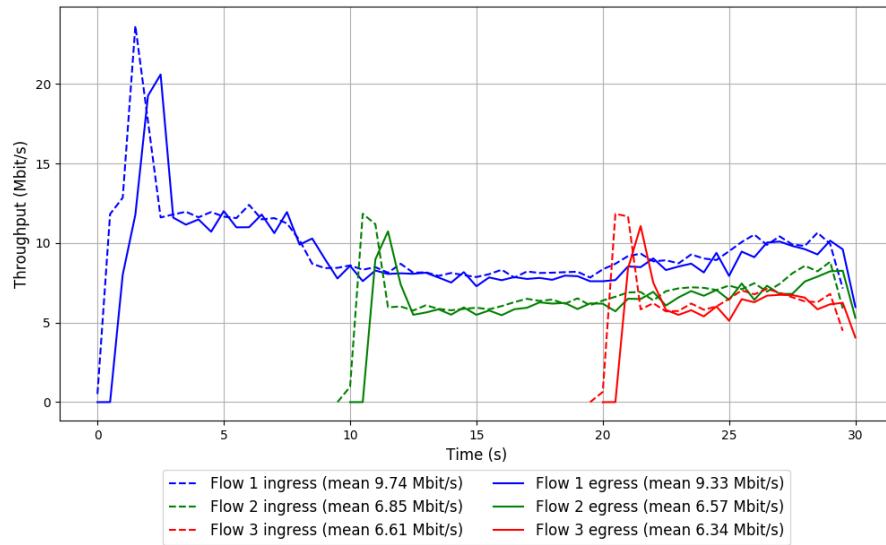


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-25 22:17:12
End at: 2019-01-25 22:17:42
Local clock offset: 19.979 ms
Remote clock offset: 0.654 ms

# Below is generated by plot.py at 2019-01-26 02:34:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.75 Mbit/s
95th percentile per-packet one-way delay: 165.901 ms
Loss rate: 5.11%
-- Flow 1:
Average throughput: 9.33 Mbit/s
95th percentile per-packet one-way delay: 165.943 ms
Loss rate: 4.89%
-- Flow 2:
Average throughput: 6.57 Mbit/s
95th percentile per-packet one-way delay: 165.857 ms
Loss rate: 5.04%
-- Flow 3:
Average throughput: 6.34 Mbit/s
95th percentile per-packet one-way delay: 165.808 ms
Loss rate: 6.21%
```

Run 2: Report of PCC-Expr — Data Link

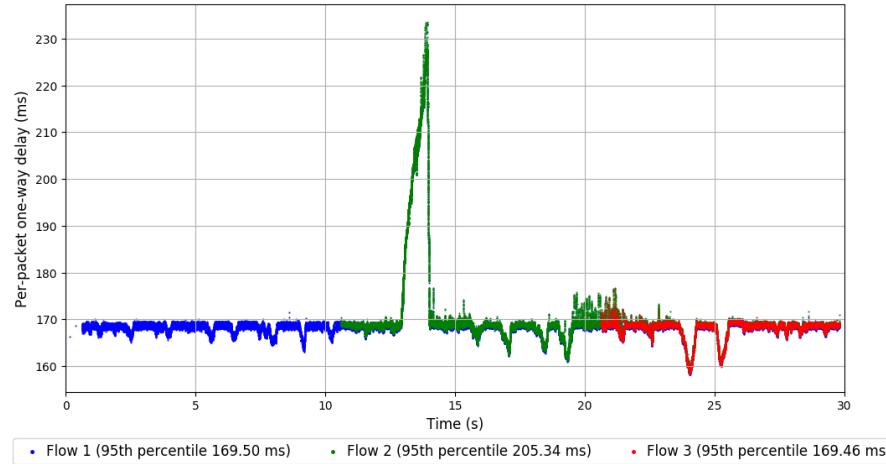
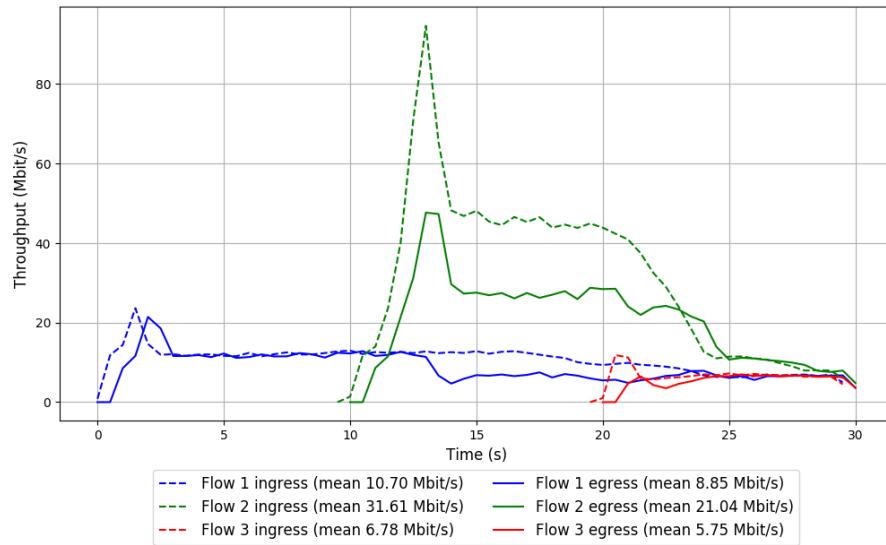


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-26 00:31:46
End at: 2019-01-26 00:32:16
Local clock offset: -1.151 ms
Remote clock offset: -1.1 ms

# Below is generated by plot.py at 2019-01-26 02:34:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.68 Mbit/s
95th percentile per-packet one-way delay: 199.474 ms
Loss rate: 27.90%
-- Flow 1:
Average throughput: 8.85 Mbit/s
95th percentile per-packet one-way delay: 169.503 ms
Loss rate: 17.86%
-- Flow 2:
Average throughput: 21.04 Mbit/s
95th percentile per-packet one-way delay: 205.341 ms
Loss rate: 34.16%
-- Flow 3:
Average throughput: 5.75 Mbit/s
95th percentile per-packet one-way delay: 169.464 ms
Loss rate: 17.11%
```

Run 3: Report of PCC-Expr — Data Link

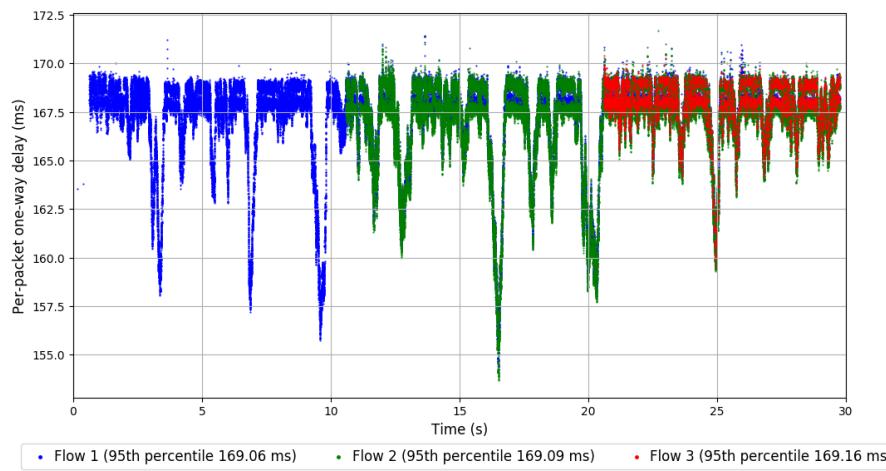
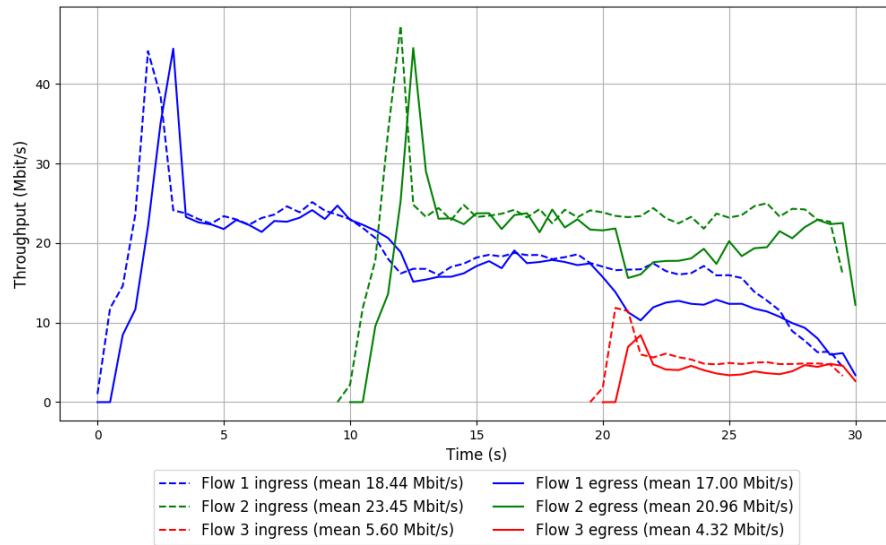


Run 4: Statistics of PCC-Expr

```
Start at: 2019-01-26 01:25:21
End at: 2019-01-26 01:25:51
Local clock offset: 7.932 ms
Remote clock offset: -1.012 ms

# Below is generated by plot.py at 2019-01-26 02:34:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 32.33 Mbit/s
95th percentile per-packet one-way delay: 169.079 ms
Loss rate: 10.67%
-- Flow 1:
Average throughput: 17.00 Mbit/s
95th percentile per-packet one-way delay: 169.059 ms
Loss rate: 8.47%
-- Flow 2:
Average throughput: 20.96 Mbit/s
95th percentile per-packet one-way delay: 169.091 ms
Loss rate: 11.62%
-- Flow 3:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: 169.165 ms
Loss rate: 24.59%
```

Run 4: Report of PCC-Expr — Data Link

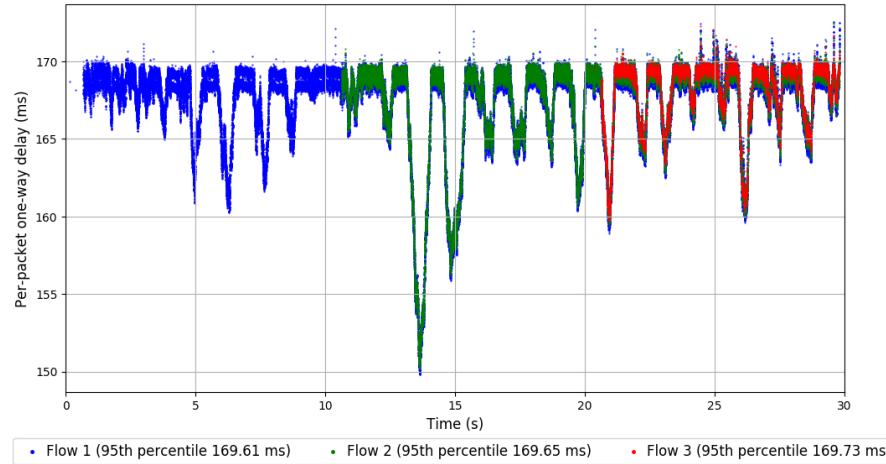
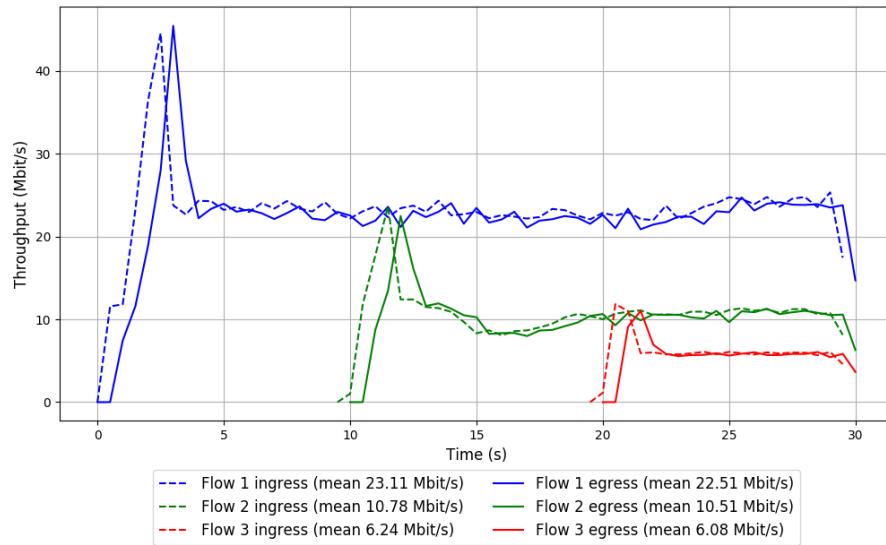


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-26 02:23:44
End at: 2019-01-26 02:24:14
Local clock offset: 0.889 ms
Remote clock offset: -1.055 ms

# Below is generated by plot.py at 2019-01-26 02:34:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.45 Mbit/s
95th percentile per-packet one-way delay: 169.633 ms
Loss rate: 3.52%
-- Flow 1:
Average throughput: 22.51 Mbit/s
95th percentile per-packet one-way delay: 169.609 ms
Loss rate: 3.36%
-- Flow 2:
Average throughput: 10.51 Mbit/s
95th percentile per-packet one-way delay: 169.654 ms
Loss rate: 3.68%
-- Flow 3:
Average throughput: 6.08 Mbit/s
95th percentile per-packet one-way delay: 169.734 ms
Loss rate: 4.77%
```

Run 5: Report of PCC-Expr — Data Link

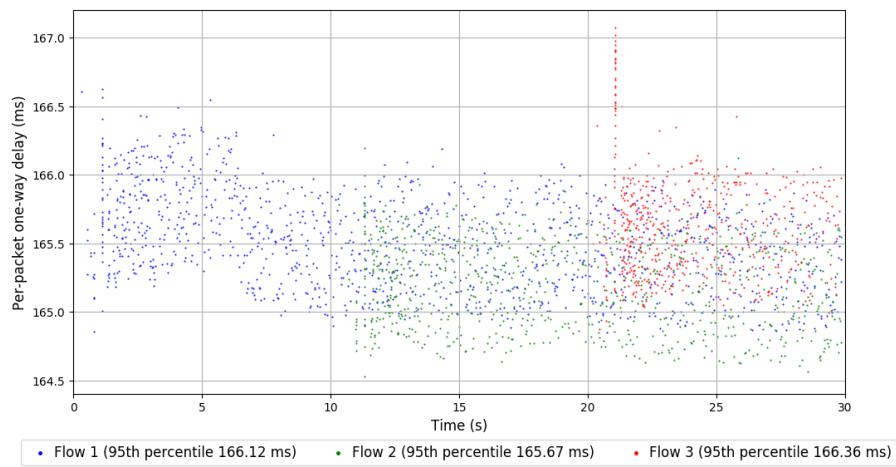
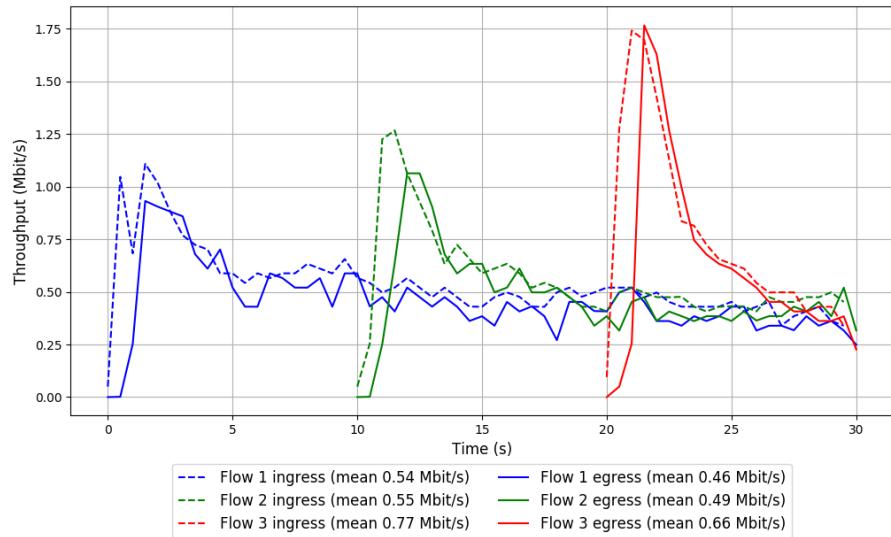


Run 1: Statistics of QUIC Cubic

```
Start at: 2019-01-25 20:06:01
End at: 2019-01-25 20:06:31
Local clock offset: 0.068 ms
Remote clock offset: -9.066 ms

# Below is generated by plot.py at 2019-01-26 02:34:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.01 Mbit/s
95th percentile per-packet one-way delay: 166.055 ms
Loss rate: 14.48%
-- Flow 1:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 166.123 ms
Loss rate: 14.40%
-- Flow 2:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 165.667 ms
Loss rate: 13.24%
-- Flow 3:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 166.357 ms
Loss rate: 16.43%
```

Run 1: Report of QUIC Cubic — Data Link

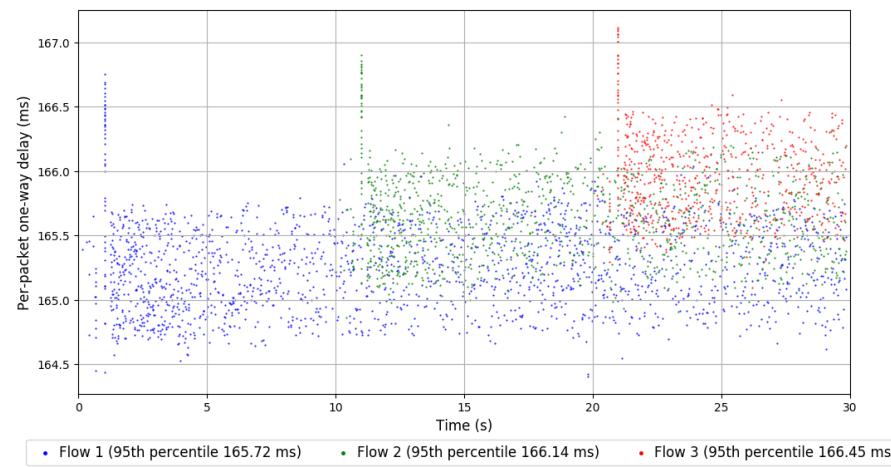
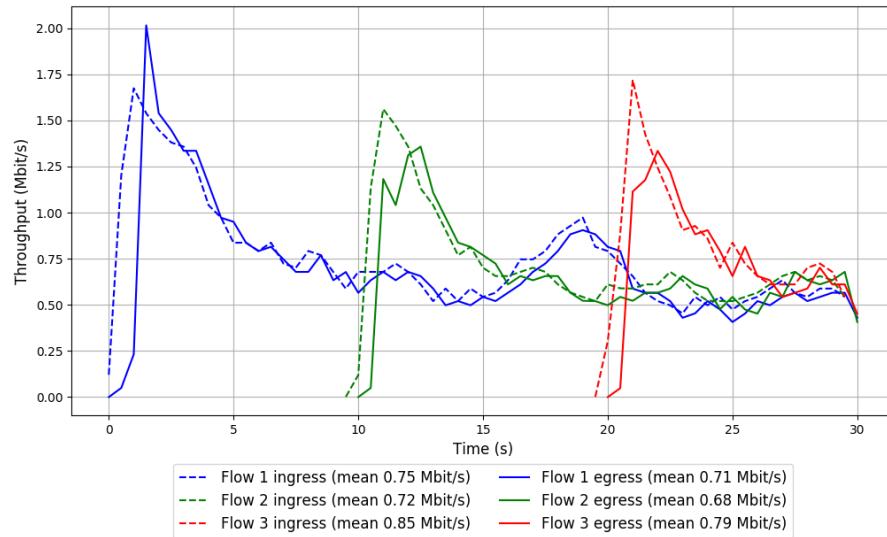


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-25 21:46:11
End at: 2019-01-25 21:46:41
Local clock offset: 1.918 ms
Remote clock offset: -0.346 ms

# Below is generated by plot.py at 2019-01-26 02:34:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 166.273 ms
Loss rate: 6.61%
-- Flow 1:
Average throughput: 0.71 Mbit/s
95th percentile per-packet one-way delay: 165.721 ms
Loss rate: 6.16%
-- Flow 2:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 166.143 ms
Loss rate: 6.18%
-- Flow 3:
Average throughput: 0.79 Mbit/s
95th percentile per-packet one-way delay: 166.454 ms
Loss rate: 8.54%
```

Run 2: Report of QUIC Cubic — Data Link

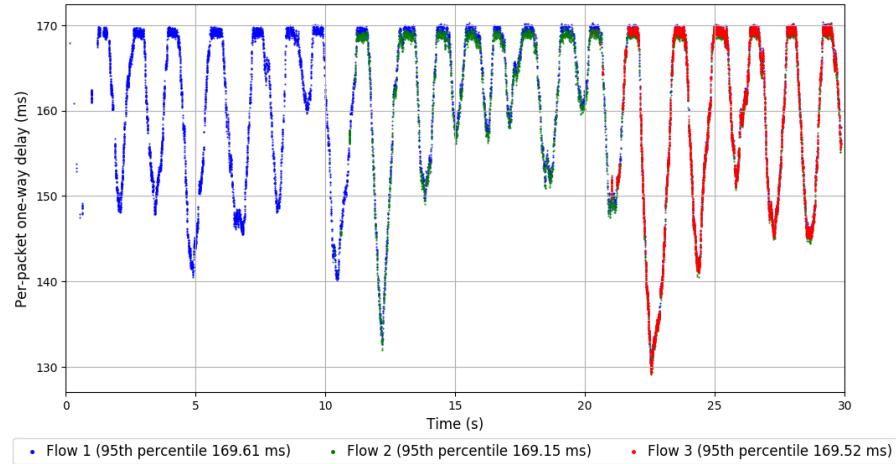
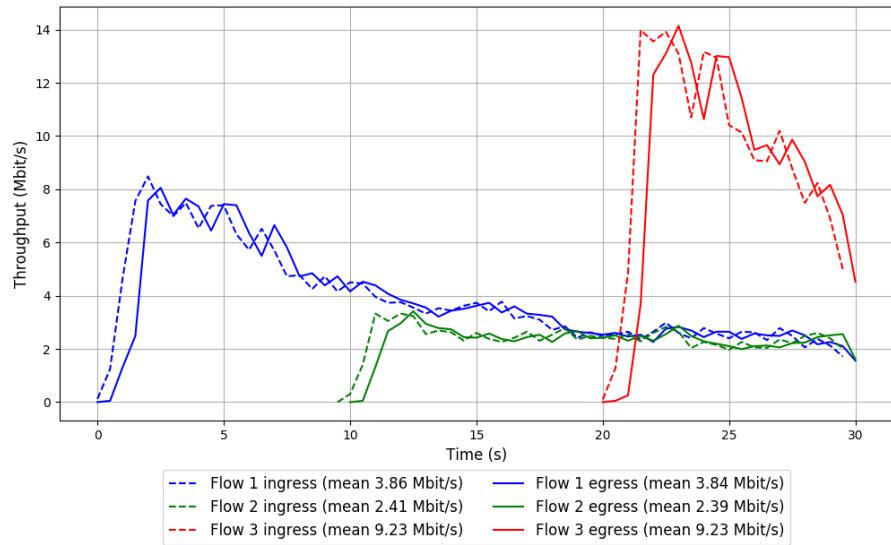


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-01-26 00:06:46
End at: 2019-01-26 00:07:16
Local clock offset: 7.125 ms
Remote clock offset: -0.236 ms

# Below is generated by plot.py at 2019-01-26 02:34:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.44 Mbit/s
95th percentile per-packet one-way delay: 169.519 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 3.84 Mbit/s
95th percentile per-packet one-way delay: 169.612 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 169.145 ms
Loss rate: 1.98%
-- Flow 3:
Average throughput: 9.23 Mbit/s
95th percentile per-packet one-way delay: 169.520 ms
Loss rate: 2.24%
```

Run 3: Report of QUIC Cubic — Data Link

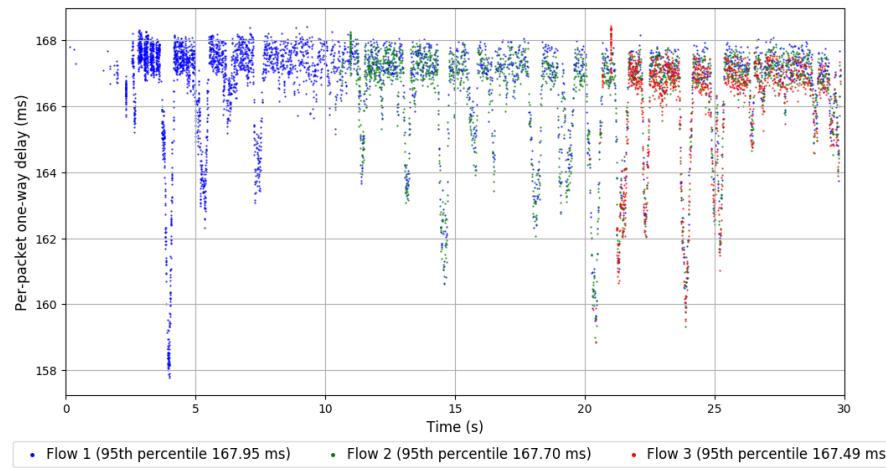
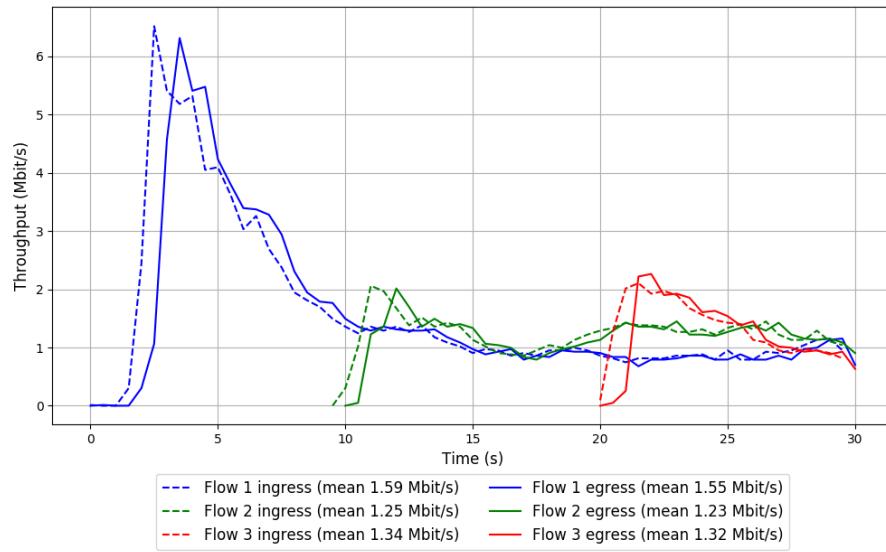


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-26 01:01:04
End at: 2019-01-26 01:01:34
Local clock offset: 0.954 ms
Remote clock offset: -0.199 ms

# Below is generated by plot.py at 2019-01-26 02:34:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.79 Mbit/s
95th percentile per-packet one-way delay: 167.886 ms
Loss rate: 3.18%
-- Flow 1:
Average throughput: 1.55 Mbit/s
95th percentile per-packet one-way delay: 167.947 ms
Loss rate: 3.07%
-- Flow 2:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 167.696 ms
Loss rate: 3.09%
-- Flow 3:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 167.489 ms
Loss rate: 3.75%
```

Run 4: Report of QUIC Cubic — Data Link

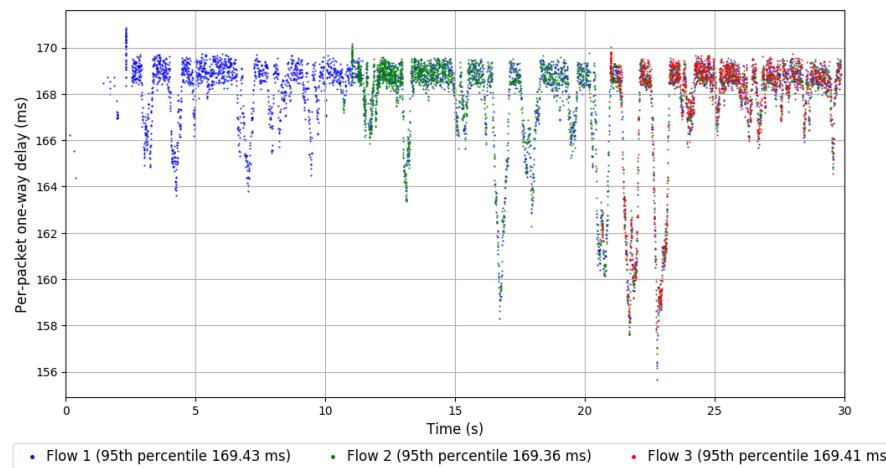
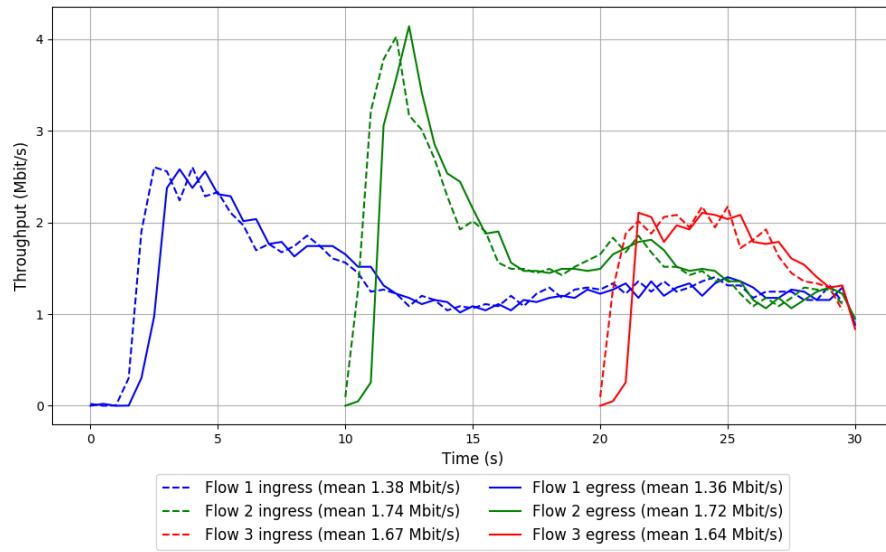


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-26 01:57:14
End at: 2019-01-26 01:57:44
Local clock offset: 2.358 ms
Remote clock offset: -0.95 ms

# Below is generated by plot.py at 2019-01-26 02:34:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.03 Mbit/s
95th percentile per-packet one-way delay: 169.403 ms
Loss rate: 2.62%
-- Flow 1:
Average throughput: 1.36 Mbit/s
95th percentile per-packet one-way delay: 169.430 ms
Loss rate: 2.33%
-- Flow 2:
Average throughput: 1.72 Mbit/s
95th percentile per-packet one-way delay: 169.363 ms
Loss rate: 2.35%
-- Flow 3:
Average throughput: 1.64 Mbit/s
95th percentile per-packet one-way delay: 169.407 ms
Loss rate: 3.90%
```

Run 5: Report of QUIC Cubic — Data Link

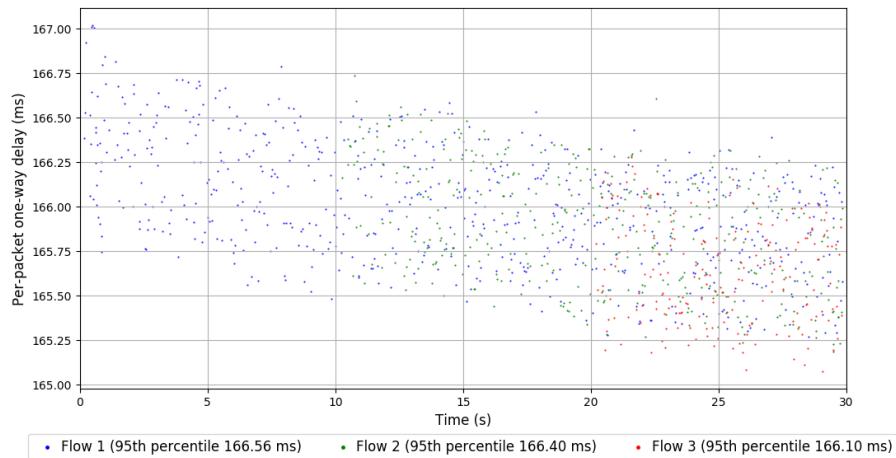
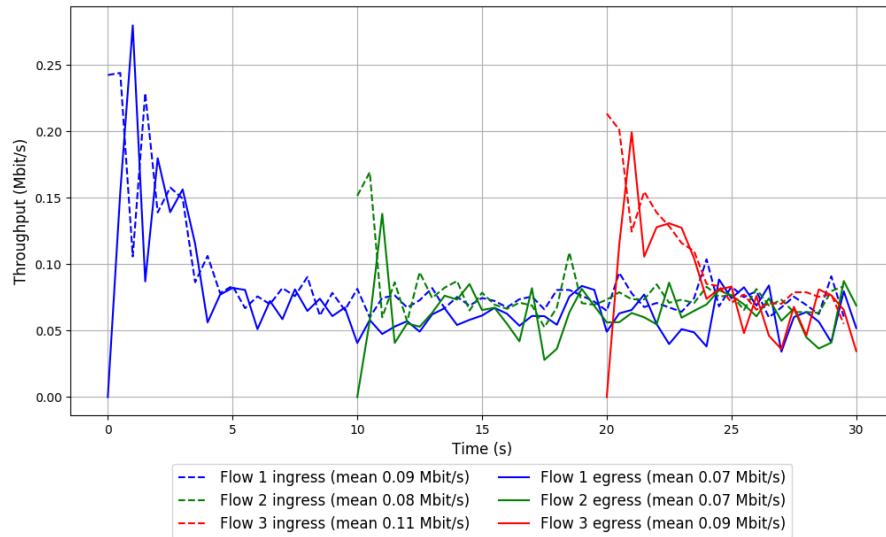


Run 1: Statistics of SCReAM

```
Start at: 2019-01-25 19:22:49
End at: 2019-01-25 19:23:19
Local clock offset: 19.508 ms
Remote clock offset: -1.35 ms

# Below is generated by plot.py at 2019-01-26 02:34:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 166.489 ms
Loss rate: 16.47%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 166.565 ms
Loss rate: 15.48%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 166.395 ms
Loss rate: 17.93%
-- Flow 3:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 166.104 ms
Loss rate: 16.79%
```

Run 1: Report of SCReAM — Data Link

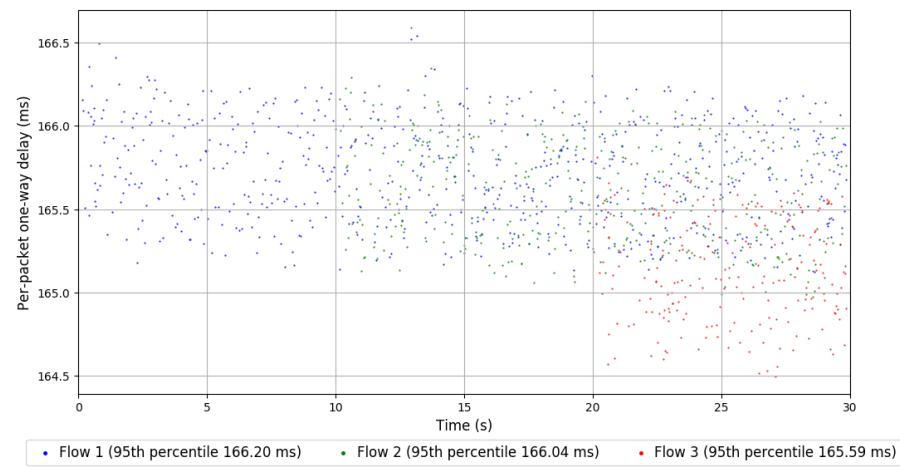
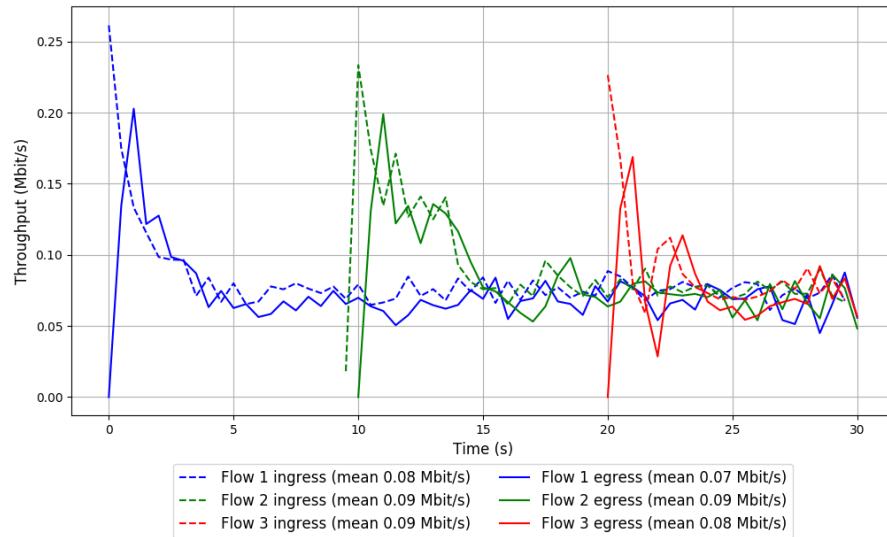


Run 2: Statistics of SCReAM

```
Start at: 2019-01-25 21:10:27
End at: 2019-01-25 21:10:57
Local clock offset: 1.664 ms
Remote clock offset: -1.86 ms

# Below is generated by plot.py at 2019-01-26 02:34:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 166.143 ms
Loss rate: 11.21%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 166.197 ms
Loss rate: 10.83%
-- Flow 2:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 166.042 ms
Loss rate: 10.38%
-- Flow 3:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 165.586 ms
Loss rate: 13.97%
```

Run 2: Report of SCReAM — Data Link

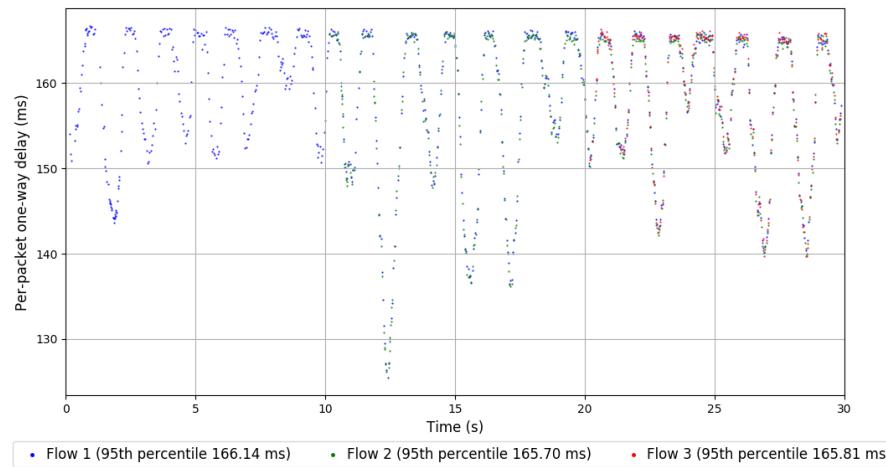
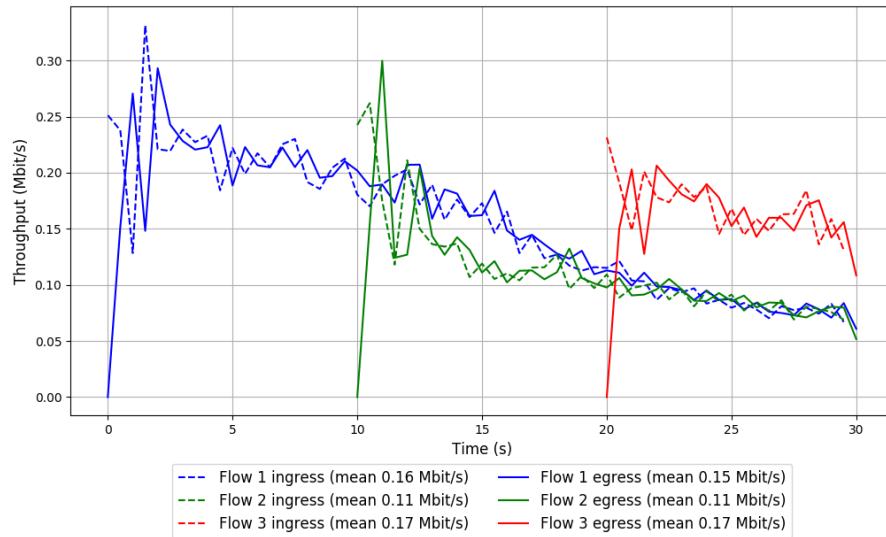


Run 3: Statistics of SCReAM

```
Start at: 2019-01-25 23:02:02
End at: 2019-01-25 23:02:32
Local clock offset: 3.625 ms
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2019-01-26 02:34:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 165.933 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 166.139 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 165.699 ms
Loss rate: 2.81%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 165.809 ms
Loss rate: 2.74%
```

Run 3: Report of SCReAM — Data Link

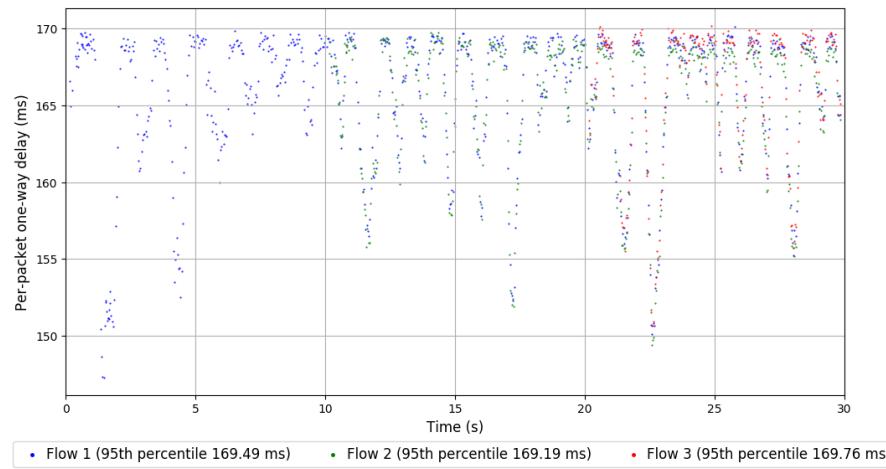
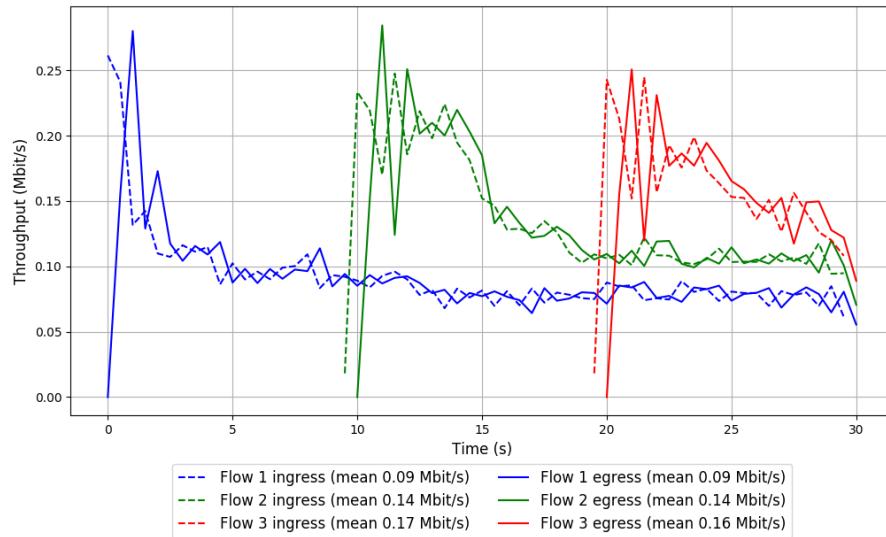


Run 4: Statistics of SCReAM

```
Start at: 2019-01-26 00:43:50
End at: 2019-01-26 00:44:20
Local clock offset: 0.316 ms
Remote clock offset: -1.717 ms

# Below is generated by plot.py at 2019-01-26 02:34:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 169.507 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 169.492 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 169.191 ms
Loss rate: 1.97%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 169.757 ms
Loss rate: 3.30%
```

Run 4: Report of SCReAM — Data Link

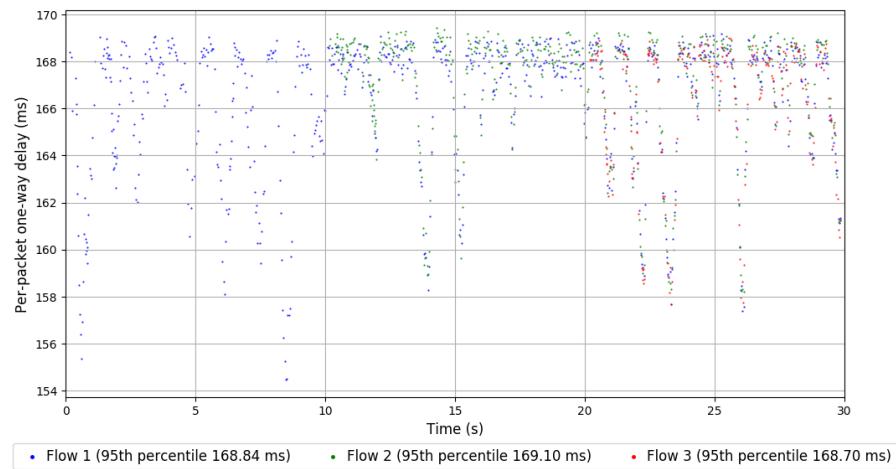
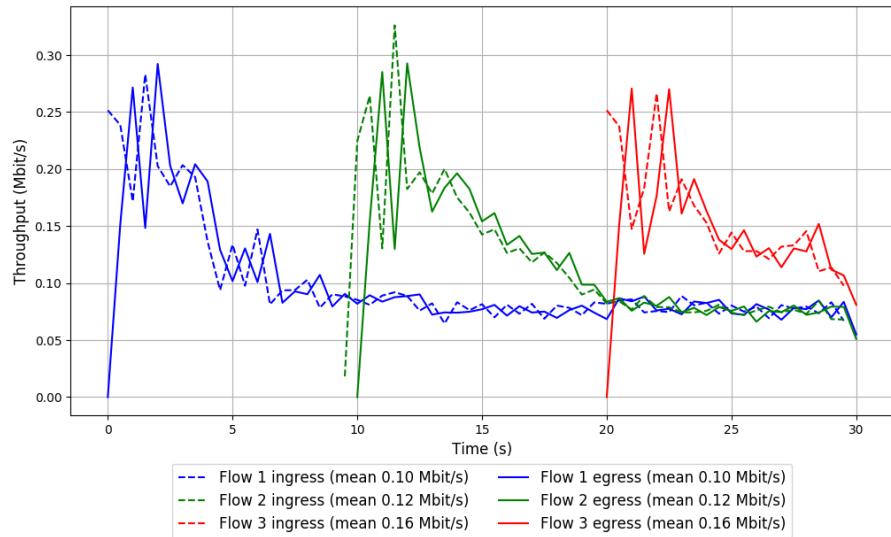


Run 5: Statistics of SCReAM

```
Start at: 2019-01-26 01:39:07
End at: 2019-01-26 01:39:37
Local clock offset: 4.678 ms
Remote clock offset: -0.231 ms

# Below is generated by plot.py at 2019-01-26 02:34:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 168.930 ms
Loss rate: 2.76%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 168.839 ms
Loss rate: 2.33%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 169.100 ms
Loss rate: 2.21%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 168.701 ms
Loss rate: 4.44%
```

Run 5: Report of SCReAM — Data Link

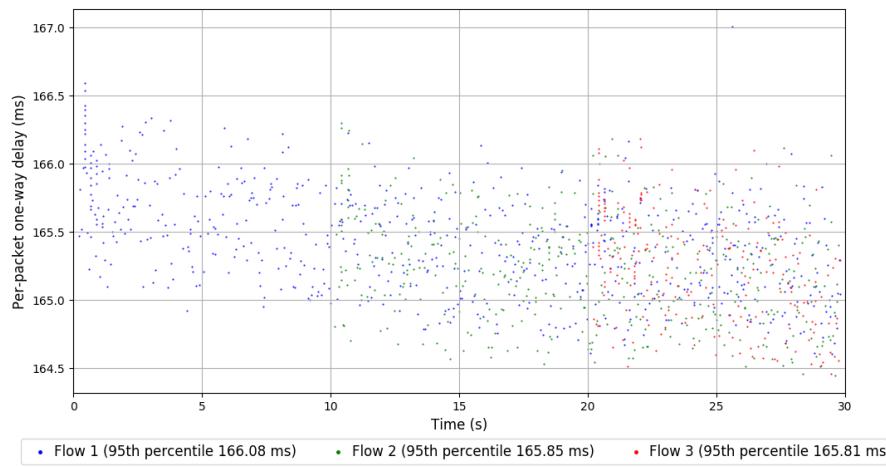
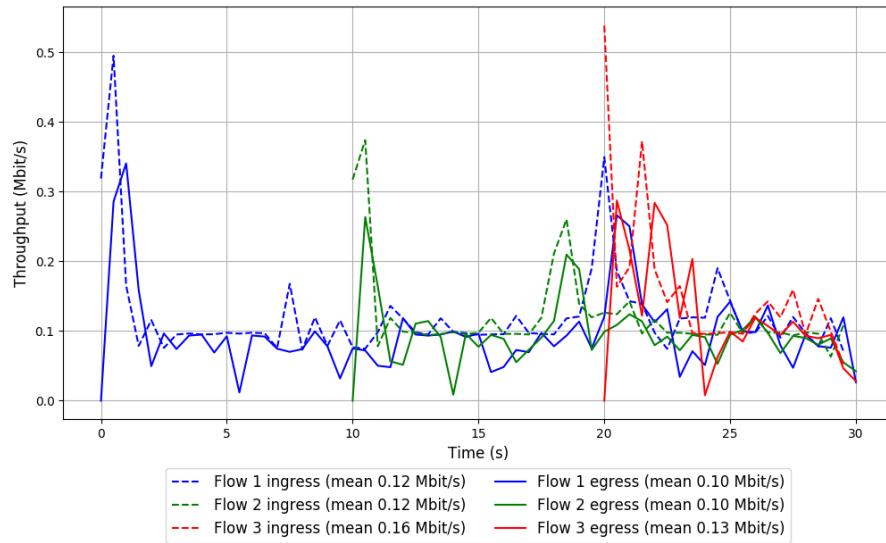


Run 1: Statistics of Sprout

```
Start at: 2019-01-25 19:21:06
End at: 2019-01-25 19:21:36
Local clock offset: 19.009 ms
Remote clock offset: 0.787 ms

# Below is generated by plot.py at 2019-01-26 02:34:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 165.978 ms
Loss rate: 20.33%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 166.076 ms
Loss rate: 19.80%
-- Flow 2:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 165.847 ms
Loss rate: 20.88%
-- Flow 3:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 165.812 ms
Loss rate: 20.69%
```

Run 1: Report of Sprout — Data Link

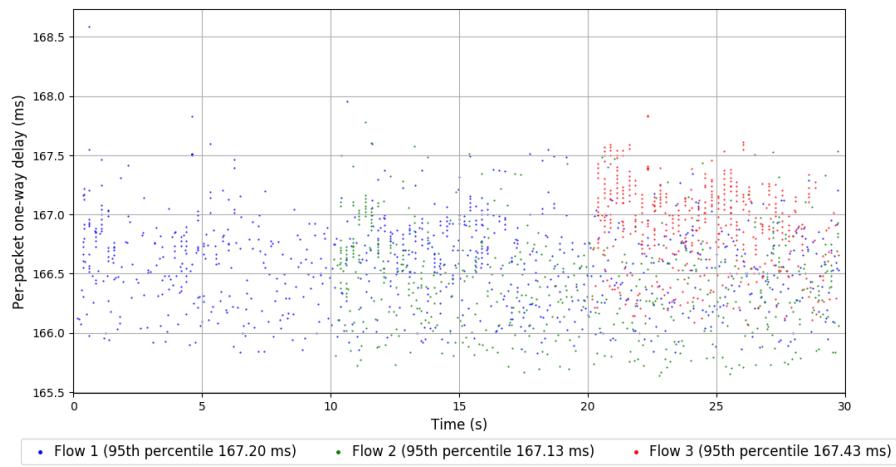
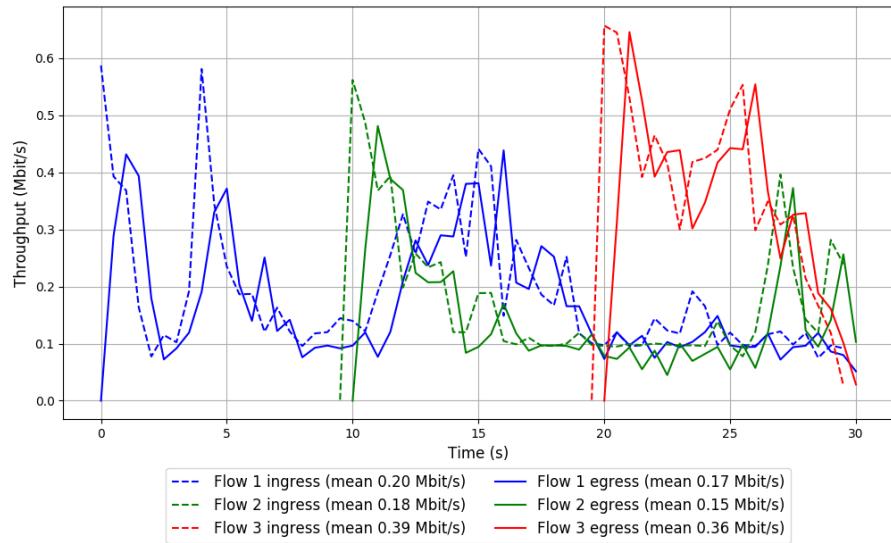


Run 2: Statistics of Sprout

```
Start at: 2019-01-25 21:08:52
End at: 2019-01-25 21:09:22
Local clock offset: 1.546 ms
Remote clock offset: -2.921 ms

# Below is generated by plot.py at 2019-01-26 02:34:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 167.318 ms
Loss rate: 11.86%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 167.200 ms
Loss rate: 11.98%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 167.131 ms
Loss rate: 16.42%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 167.427 ms
Loss rate: 7.38%
```

Run 2: Report of Sprout — Data Link

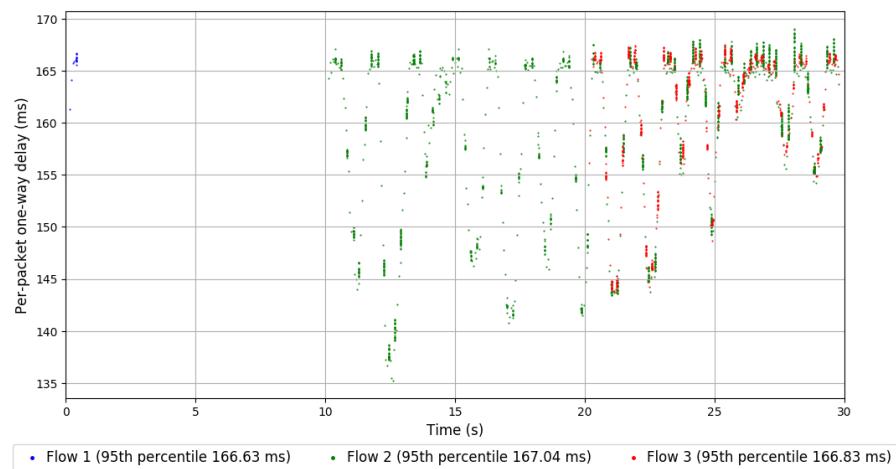
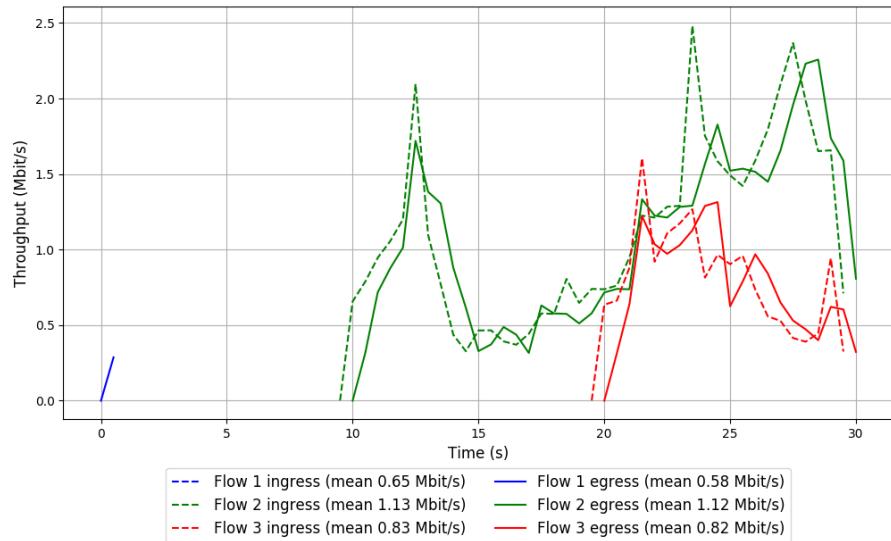


Run 3: Statistics of Sprout

```
Start at: 2019-01-25 22:59:56
End at: 2019-01-25 23:00:26
Local clock offset: 0.209 ms
Remote clock offset: -0.423 ms

# Below is generated by plot.py at 2019-01-26 02:34:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.01 Mbit/s
95th percentile per-packet one-way delay: 166.946 ms
Loss rate: 2.54%
-- Flow 1:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 166.630 ms
Loss rate: 7.70%
-- Flow 2:
Average throughput: 1.12 Mbit/s
95th percentile per-packet one-way delay: 167.038 ms
Loss rate: 2.38%
-- Flow 3:
Average throughput: 0.82 Mbit/s
95th percentile per-packet one-way delay: 166.829 ms
Loss rate: 2.87%
```

Run 3: Report of Sprout — Data Link

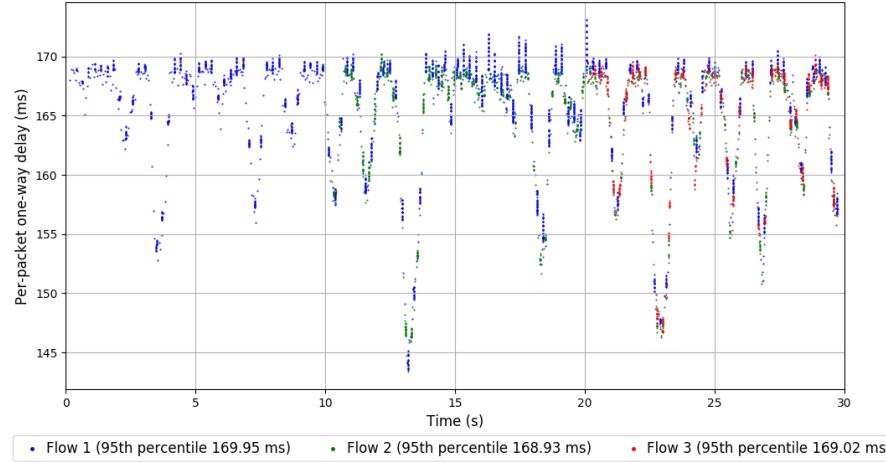
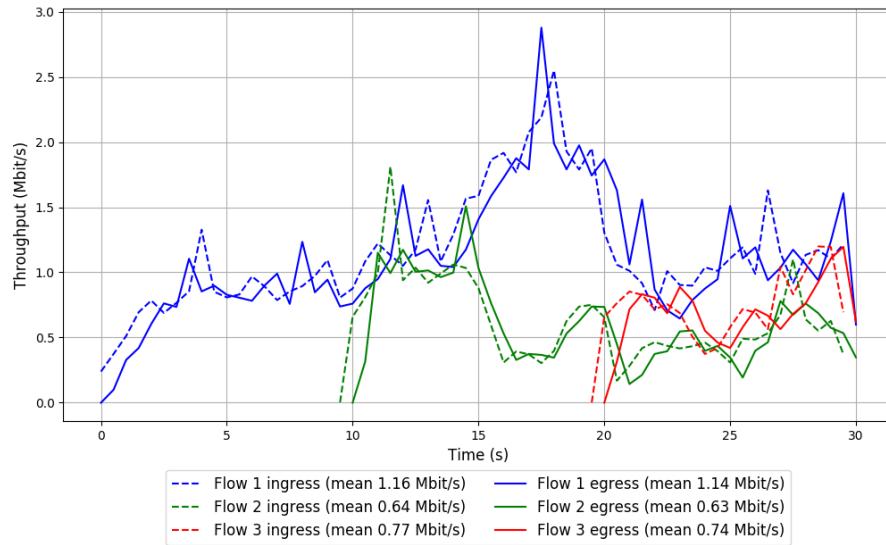


Run 4: Statistics of Sprout

```
Start at: 2019-01-26 00:42:27
End at: 2019-01-26 00:42:57
Local clock offset: 0.152 ms
Remote clock offset: -0.964 ms

# Below is generated by plot.py at 2019-01-26 02:34:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 169.677 ms
Loss rate: 2.76%
-- Flow 1:
Average throughput: 1.14 Mbit/s
95th percentile per-packet one-way delay: 169.949 ms
Loss rate: 2.10%
-- Flow 2:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 168.931 ms
Loss rate: 3.01%
-- Flow 3:
Average throughput: 0.74 Mbit/s
95th percentile per-packet one-way delay: 169.017 ms
Loss rate: 5.37%
```

Run 4: Report of Sprout — Data Link

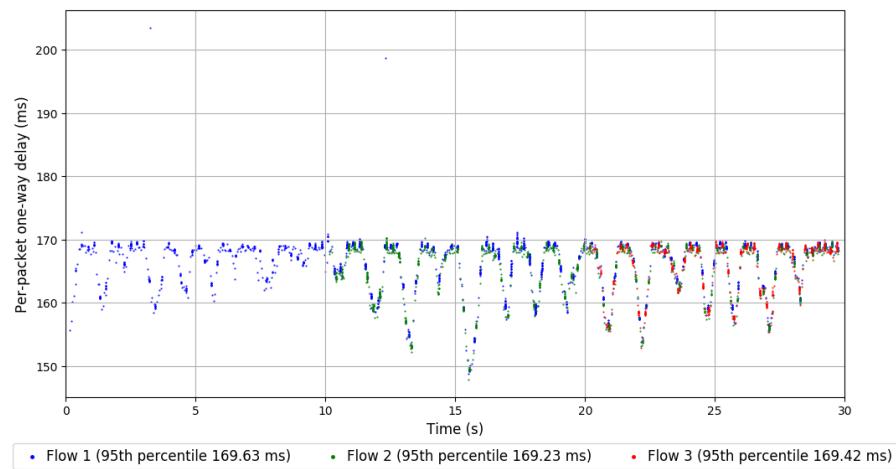
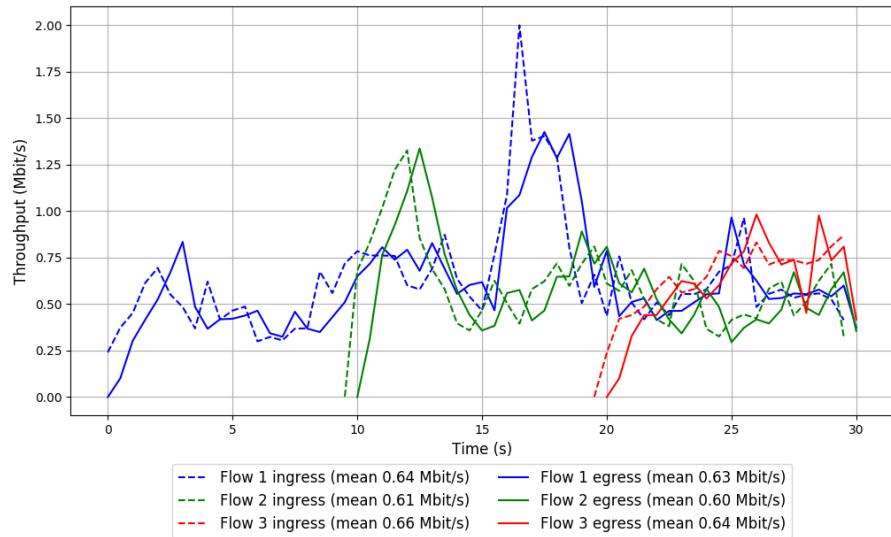


Run 5: Statistics of Sprout

```
Start at: 2019-01-26 01:37:42
End at: 2019-01-26 01:38:12
Local clock offset: 4.963 ms
Remote clock offset: -0.447 ms

# Below is generated by plot.py at 2019-01-26 02:34:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.24 Mbit/s
95th percentile per-packet one-way delay: 169.514 ms
Loss rate: 2.77%
-- Flow 1:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 169.628 ms
Loss rate: 1.88%
-- Flow 2:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 169.228 ms
Loss rate: 3.06%
-- Flow 3:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 169.417 ms
Loss rate: 4.86%
```

Run 5: Report of Sprout — Data Link

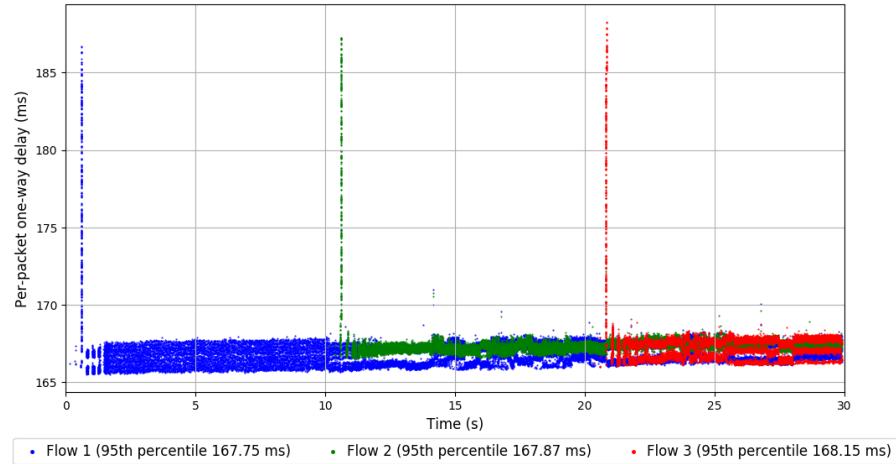
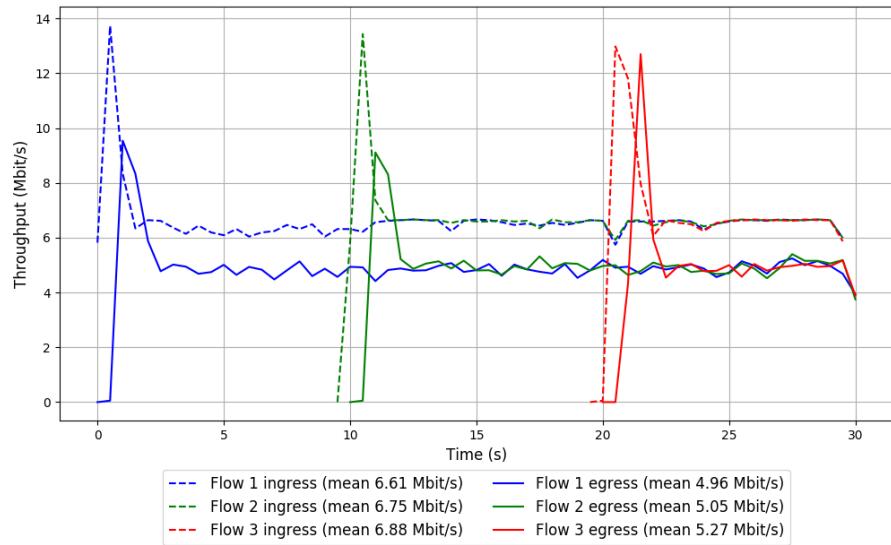


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-25 19:29:28
End at: 2019-01-25 19:29:58
Local clock offset: 21.247 ms
Remote clock offset: -5.758 ms

# Below is generated by plot.py at 2019-01-26 02:34:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.00 Mbit/s
95th percentile per-packet one-way delay: 167.884 ms
Loss rate: 25.91%
-- Flow 1:
Average throughput: 4.96 Mbit/s
95th percentile per-packet one-way delay: 167.755 ms
Loss rate: 25.57%
-- Flow 2:
Average throughput: 5.05 Mbit/s
95th percentile per-packet one-way delay: 167.868 ms
Loss rate: 26.02%
-- Flow 3:
Average throughput: 5.27 Mbit/s
95th percentile per-packet one-way delay: 168.147 ms
Loss rate: 26.70%
```

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

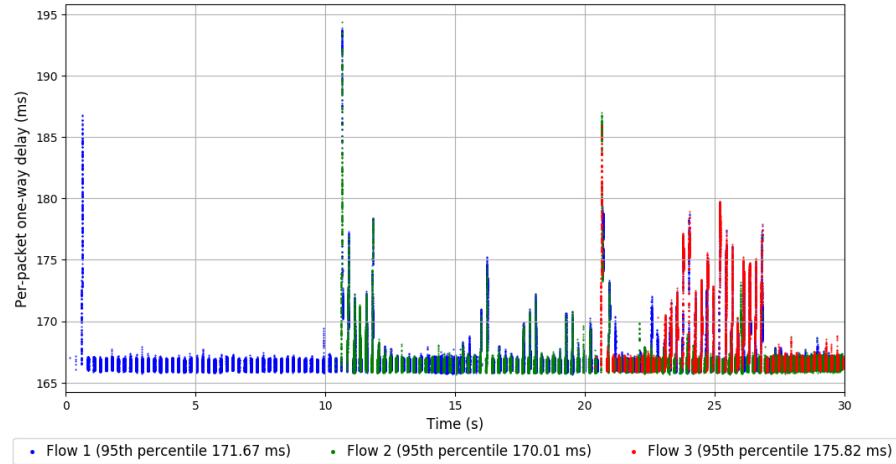
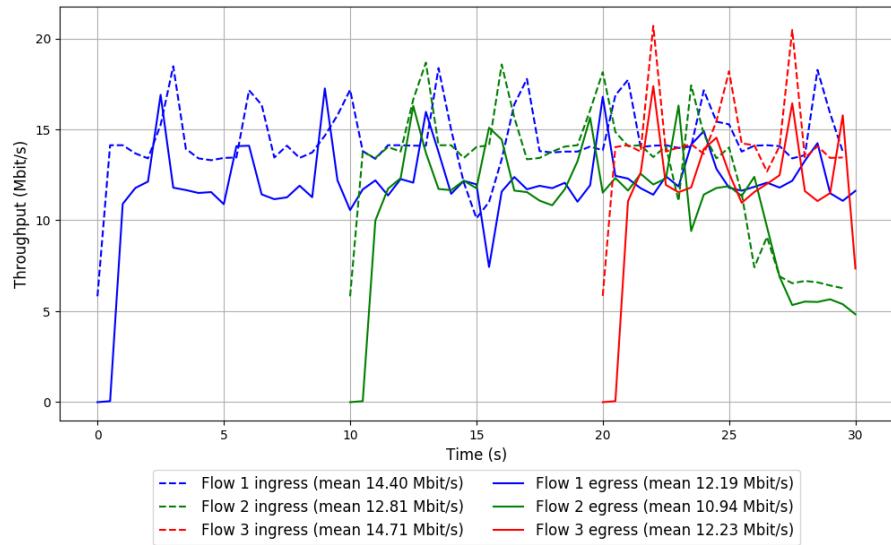


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-25 21:16:35
End at: 2019-01-25 21:17:05
Local clock offset: 1.679 ms
Remote clock offset: -2.962 ms

# Below is generated by plot.py at 2019-01-26 02:34:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.45 Mbit/s
95th percentile per-packet one-way delay: 172.795 ms
Loss rate: 16.05%
-- Flow 1:
Average throughput: 12.19 Mbit/s
95th percentile per-packet one-way delay: 171.672 ms
Loss rate: 15.97%
-- Flow 2:
Average throughput: 10.94 Mbit/s
95th percentile per-packet one-way delay: 170.006 ms
Loss rate: 15.53%
-- Flow 3:
Average throughput: 12.23 Mbit/s
95th percentile per-packet one-way delay: 175.823 ms
Loss rate: 17.22%
```

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

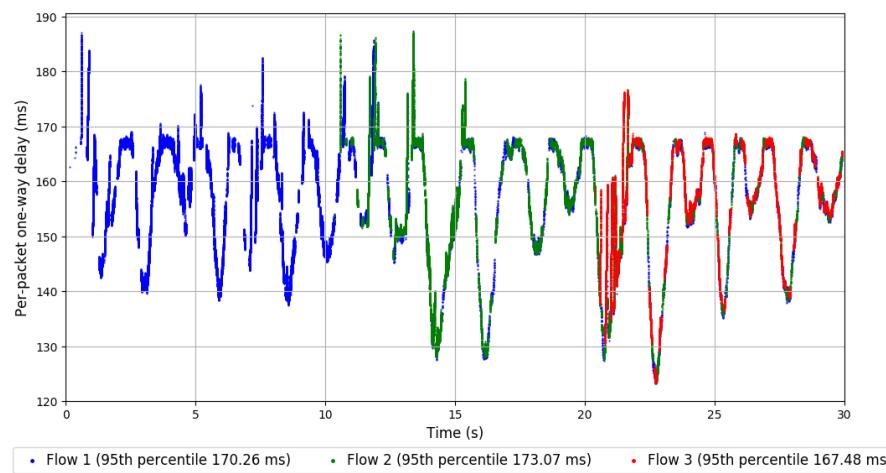
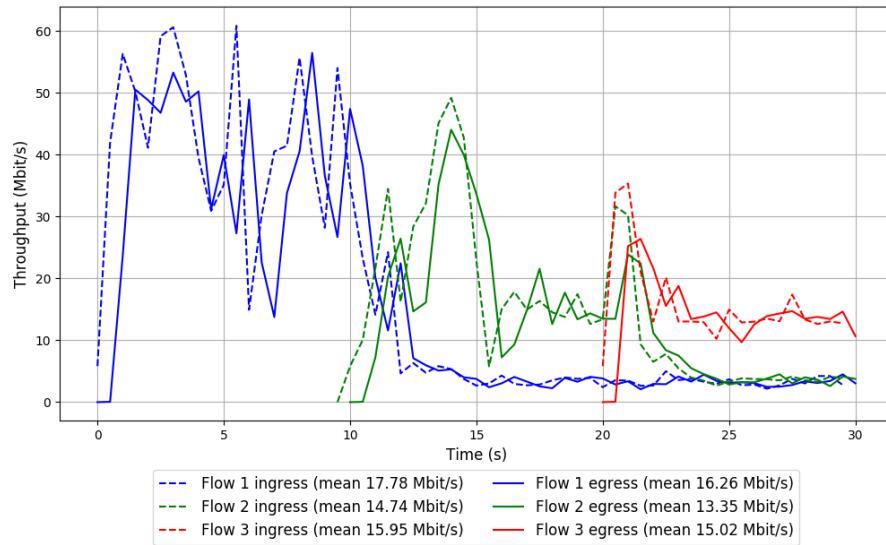


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-25 23:21:20
End at: 2019-01-25 23:21:50
Local clock offset: 15.79 ms
Remote clock offset: -1.775 ms

# Below is generated by plot.py at 2019-01-26 02:35:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.05 Mbit/s
95th percentile per-packet one-way delay: 170.331 ms
Loss rate: 9.22%
-- Flow 1:
Average throughput: 16.26 Mbit/s
95th percentile per-packet one-way delay: 170.257 ms
Loss rate: 9.23%
-- Flow 2:
Average throughput: 13.35 Mbit/s
95th percentile per-packet one-way delay: 173.067 ms
Loss rate: 10.31%
-- Flow 3:
Average throughput: 15.02 Mbit/s
95th percentile per-packet one-way delay: 167.479 ms
Loss rate: 7.15%
```

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

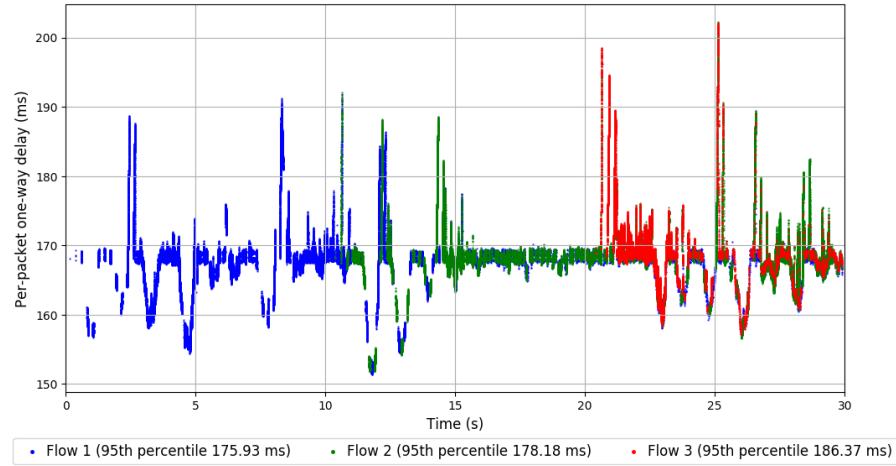
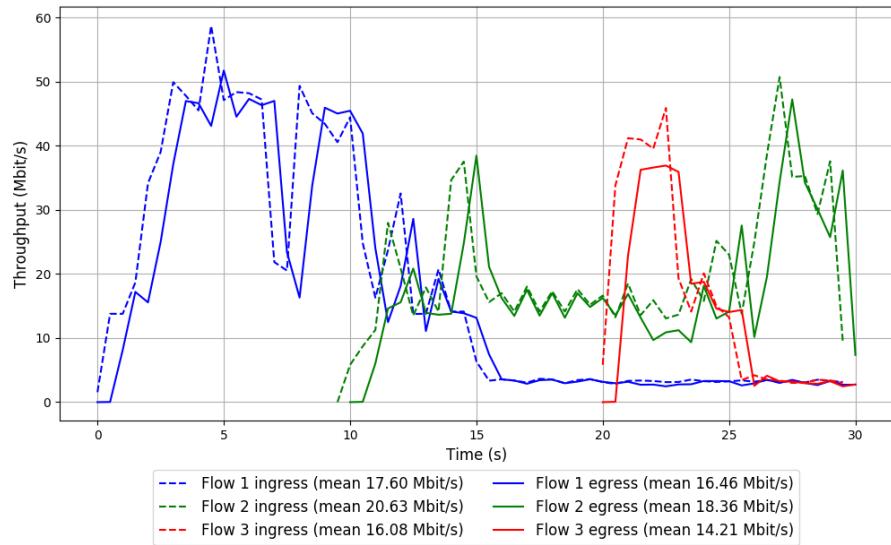


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-26 00:50:09
End at: 2019-01-26 00:50:39
Local clock offset: 0.232 ms
Remote clock offset: -0.986 ms

# Below is generated by plot.py at 2019-01-26 02:35:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.28 Mbit/s
95th percentile per-packet one-way delay: 178.499 ms
Loss rate: 9.67%
-- Flow 1:
Average throughput: 16.46 Mbit/s
95th percentile per-packet one-way delay: 175.928 ms
Loss rate: 7.12%
-- Flow 2:
Average throughput: 18.36 Mbit/s
95th percentile per-packet one-way delay: 178.181 ms
Loss rate: 11.43%
-- Flow 3:
Average throughput: 14.21 Mbit/s
95th percentile per-packet one-way delay: 186.374 ms
Loss rate: 13.54%
```

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

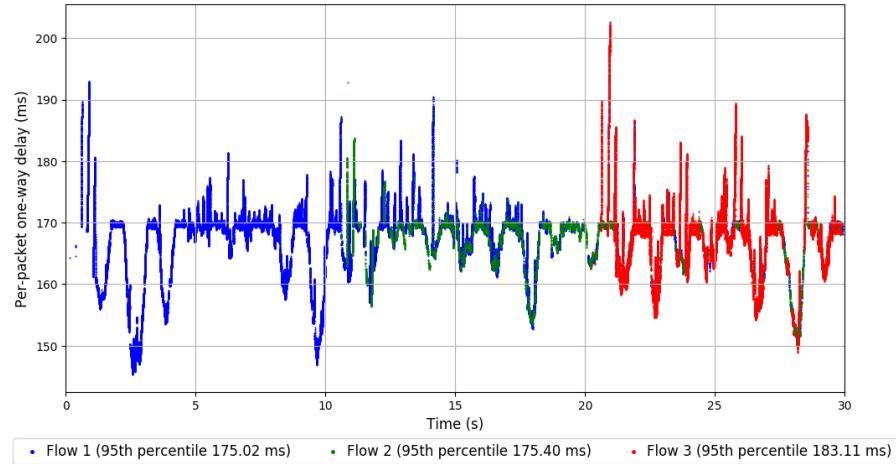
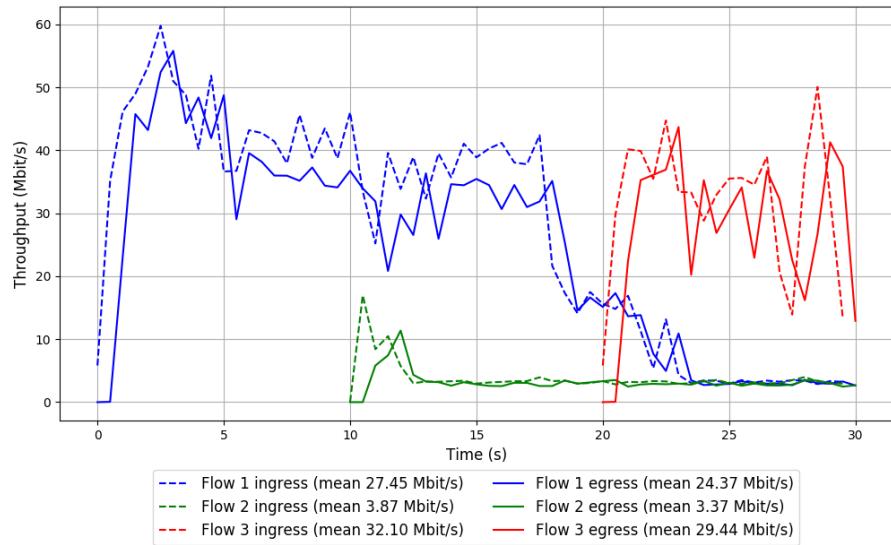


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-26 01:46:20
End at: 2019-01-26 01:46:50
Local clock offset: 3.553 ms
Remote clock offset: -1.393 ms

# Below is generated by plot.py at 2019-01-26 02:35:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.16 Mbit/s
95th percentile per-packet one-way delay: 177.108 ms
Loss rate: 11.69%
-- Flow 1:
Average throughput: 24.37 Mbit/s
95th percentile per-packet one-way delay: 175.016 ms
Loss rate: 11.87%
-- Flow 2:
Average throughput: 3.37 Mbit/s
95th percentile per-packet one-way delay: 175.401 ms
Loss rate: 14.88%
-- Flow 3:
Average throughput: 29.44 Mbit/s
95th percentile per-packet one-way delay: 183.112 ms
Loss rate: 10.44%
```

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

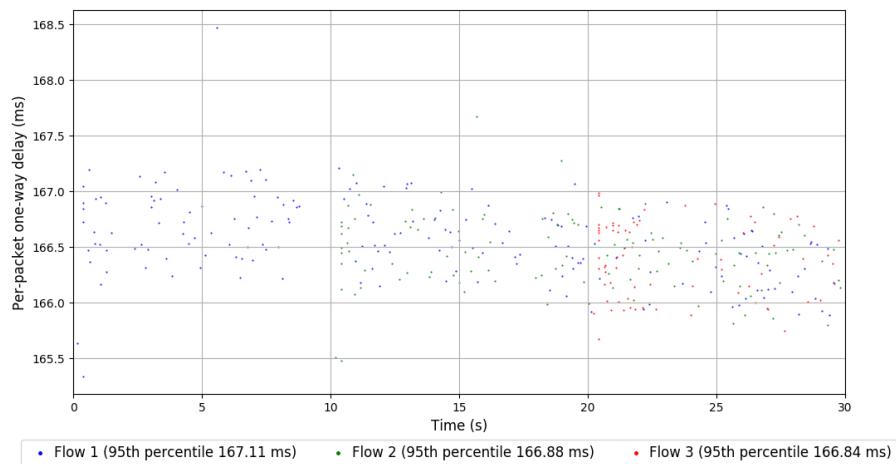
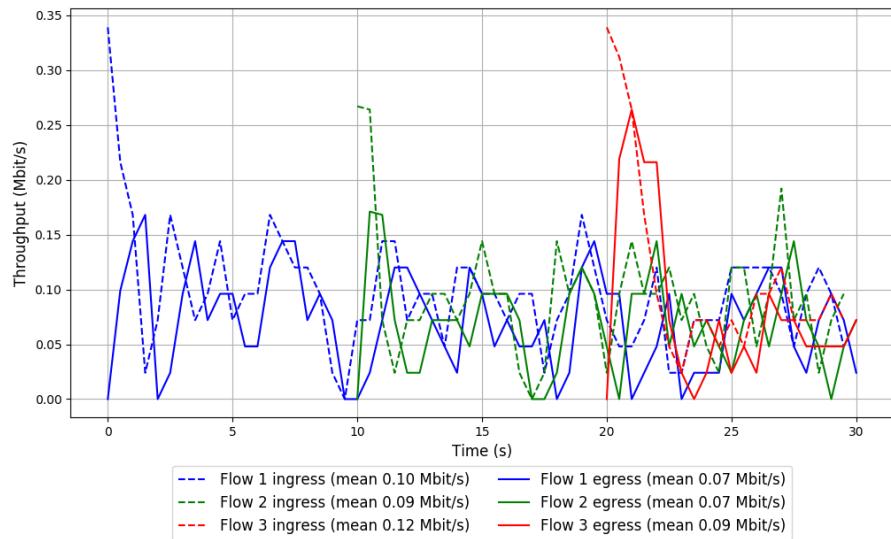


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-25 19:28:00
End at: 2019-01-25 19:28:30
Local clock offset: 20.772 ms
Remote clock offset: -5.525 ms

# Below is generated by plot.py at 2019-01-26 02:35:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 167.045 ms
Loss rate: 25.28%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 167.106 ms
Loss rate: 26.52%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 166.878 ms
Loss rate: 23.85%
-- Flow 3:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 166.838 ms
Loss rate: 24.44%
```

Run 1: Report of TCP Vegas — Data Link

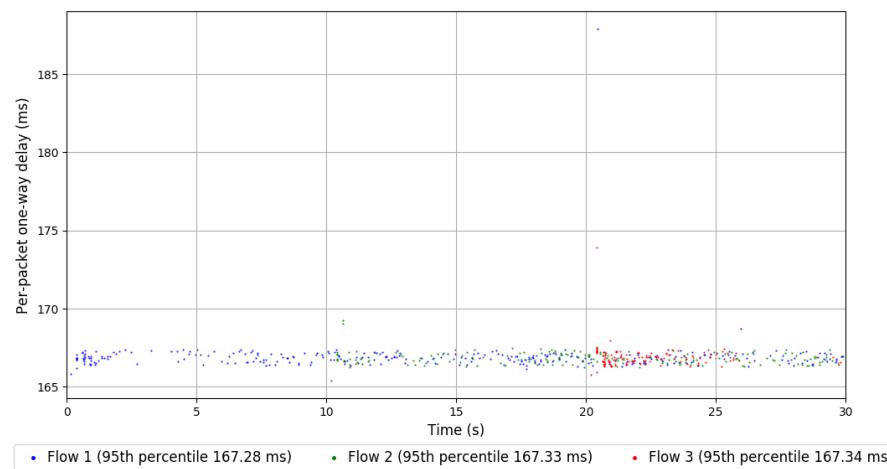
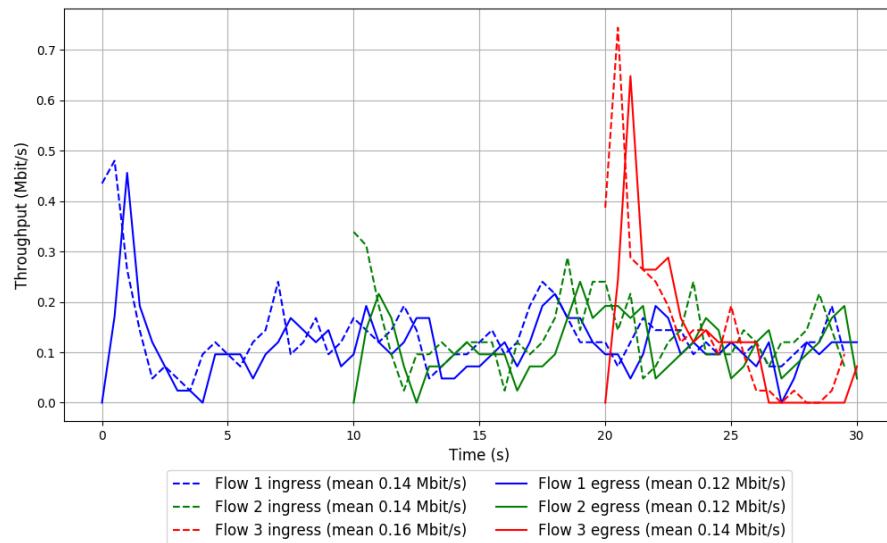


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-25 21:15:14
End at: 2019-01-25 21:15:44
Local clock offset: 1.603 ms
Remote clock offset: -2.749 ms

# Below is generated by plot.py at 2019-01-26 02:35:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 167.309 ms
Loss rate: 15.59%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 167.285 ms
Loss rate: 15.13%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 167.330 ms
Loss rate: 17.61%
-- Flow 3:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 167.345 ms
Loss rate: 13.17%
```

Run 2: Report of TCP Vegas — Data Link

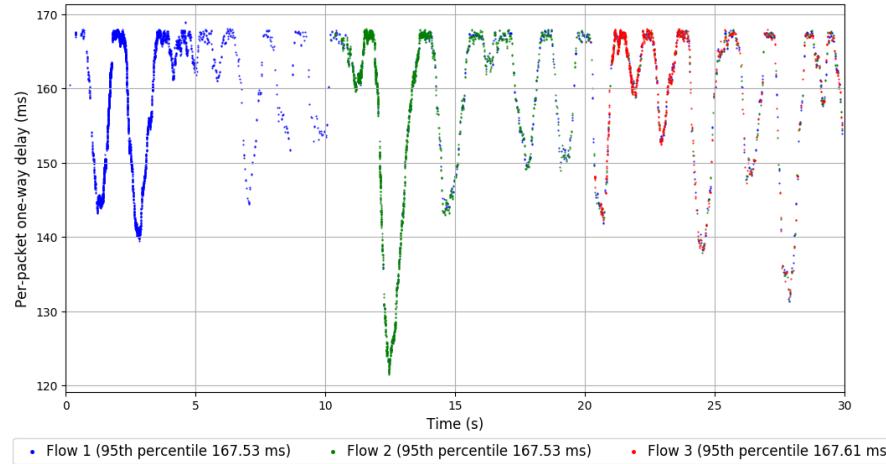
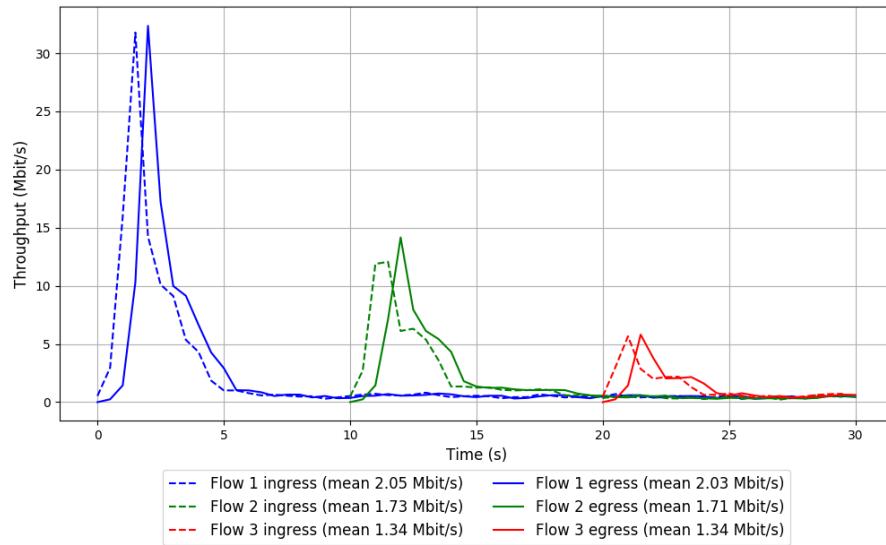


Run 3: Statistics of TCP Vegas

```
Start at: 2019-01-25 23:18:20
End at: 2019-01-25 23:18:50
Local clock offset: 15.074 ms
Remote clock offset: -1.232 ms

# Below is generated by plot.py at 2019-01-26 02:35:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.60 Mbit/s
95th percentile per-packet one-way delay: 167.540 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 167.527 ms
Loss rate: 1.68%
-- Flow 2:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 167.532 ms
Loss rate: 1.98%
-- Flow 3:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 167.610 ms
Loss rate: 2.26%
```

Run 3: Report of TCP Vegas — Data Link

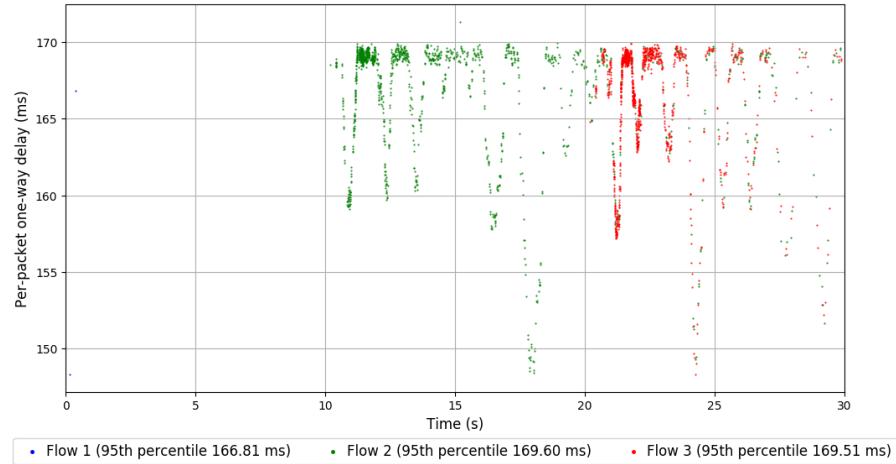
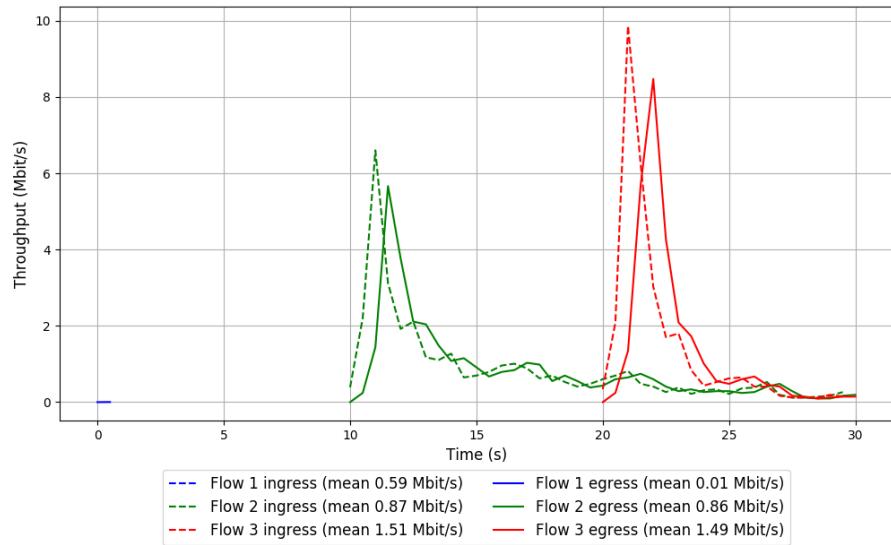


Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-26 00:48:48
End at: 2019-01-26 00:49:18
Local clock offset: 0.179 ms
Remote clock offset: -1.203 ms

# Below is generated by plot.py at 2019-01-26 02:35:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.05 Mbit/s
95th percentile per-packet one-way delay: 169.558 ms
Loss rate: 3.41%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 166.810 ms
Loss rate: 98.79%
-- Flow 2:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 169.596 ms
Loss rate: 2.84%
-- Flow 3:
Average throughput: 1.49 Mbit/s
95th percentile per-packet one-way delay: 169.512 ms
Loss rate: 3.30%
```

Run 4: Report of TCP Vegas — Data Link

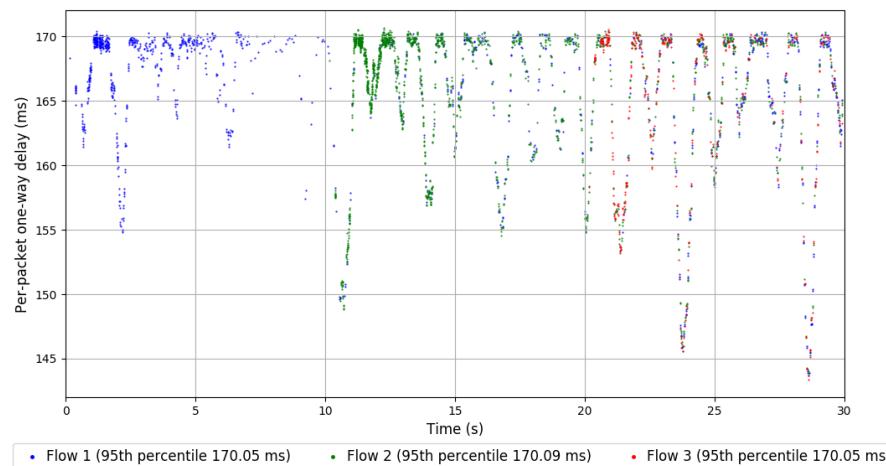
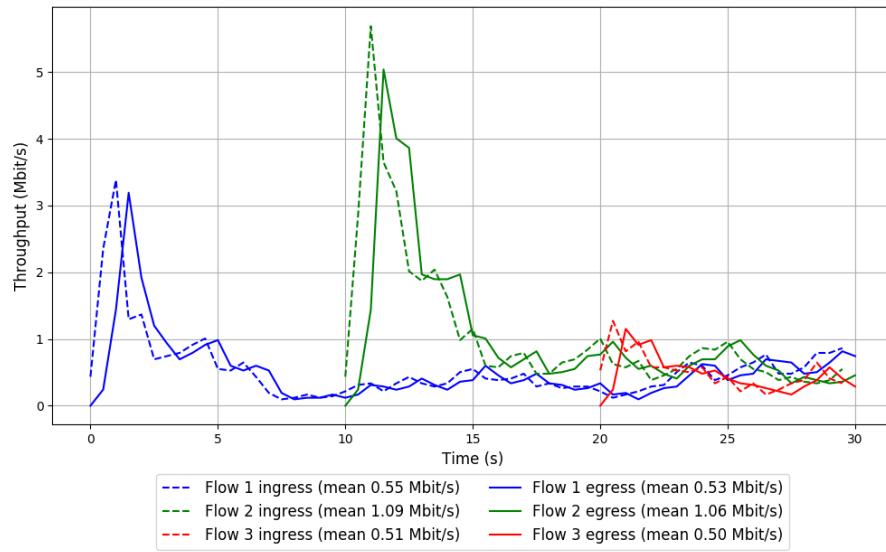


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-26 01:44:57
End at: 2019-01-26 01:45:27
Local clock offset: 3.47 ms
Remote clock offset: -1.408 ms

# Below is generated by plot.py at 2019-01-26 02:35:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.40 Mbit/s
95th percentile per-packet one-way delay: 170.061 ms
Loss rate: 3.56%
-- Flow 1:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 170.051 ms
Loss rate: 4.09%
-- Flow 2:
Average throughput: 1.06 Mbit/s
95th percentile per-packet one-way delay: 170.086 ms
Loss rate: 2.88%
-- Flow 3:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 170.049 ms
Loss rate: 4.72%
```

Run 5: Report of TCP Vegas — Data Link

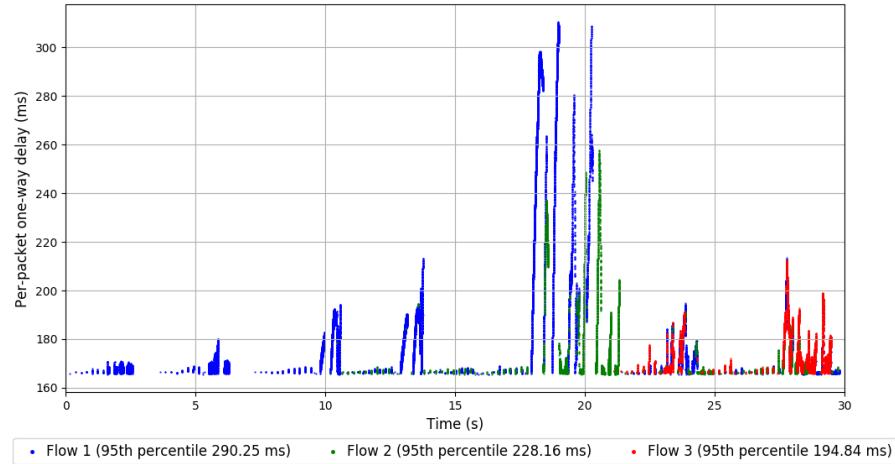
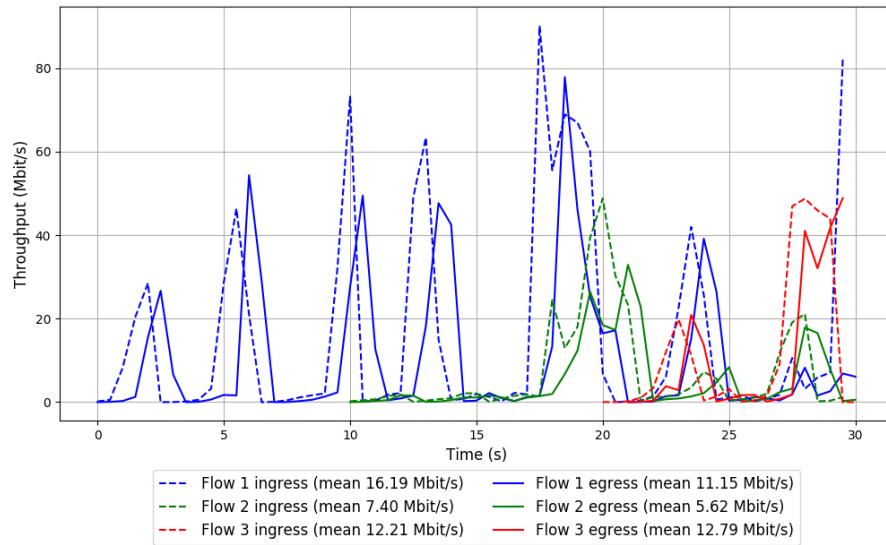


Run 1: Statistics of Verus

```
Start at: 2019-01-25 20:51:28
End at: 2019-01-25 20:51:58
Local clock offset: 1.077 ms
Remote clock offset: -3.829 ms

# Below is generated by plot.py at 2019-01-26 02:35:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.45 Mbit/s
95th percentile per-packet one-way delay: 277.344 ms
Loss rate: 27.72%
-- Flow 1:
Average throughput: 11.15 Mbit/s
95th percentile per-packet one-way delay: 290.248 ms
Loss rate: 31.91%
-- Flow 2:
Average throughput: 5.62 Mbit/s
95th percentile per-packet one-way delay: 228.162 ms
Loss rate: 24.82%
-- Flow 3:
Average throughput: 12.79 Mbit/s
95th percentile per-packet one-way delay: 194.843 ms
Loss rate: 14.80%
```

Run 1: Report of Verus — Data Link

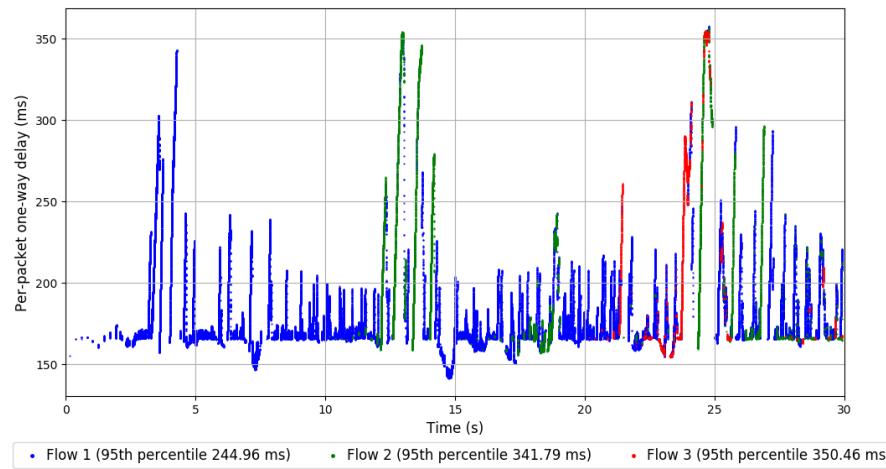
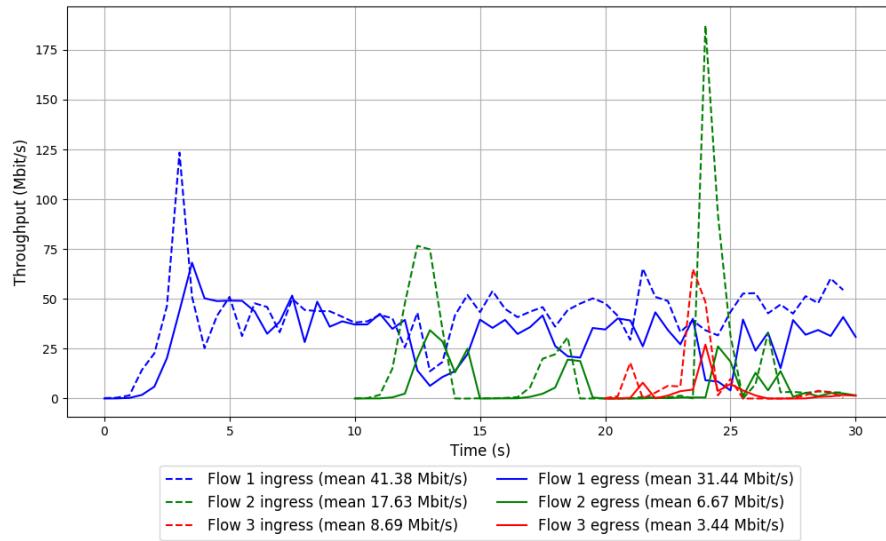


Run 2: Statistics of Verus

```
Start at: 2019-01-25 22:27:02
End at: 2019-01-25 22:27:32
Local clock offset: 23.617 ms
Remote clock offset: 0.883 ms

# Below is generated by plot.py at 2019-01-26 02:35:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.98 Mbit/s
95th percentile per-packet one-way delay: 277.791 ms
Loss rate: 34.42%
-- Flow 1:
Average throughput: 31.44 Mbit/s
95th percentile per-packet one-way delay: 244.964 ms
Loss rate: 24.64%
-- Flow 2:
Average throughput: 6.67 Mbit/s
95th percentile per-packet one-way delay: 341.794 ms
Loss rate: 62.65%
-- Flow 3:
Average throughput: 3.44 Mbit/s
95th percentile per-packet one-way delay: 350.462 ms
Loss rate: 60.38%
```

Run 2: Report of Verus — Data Link

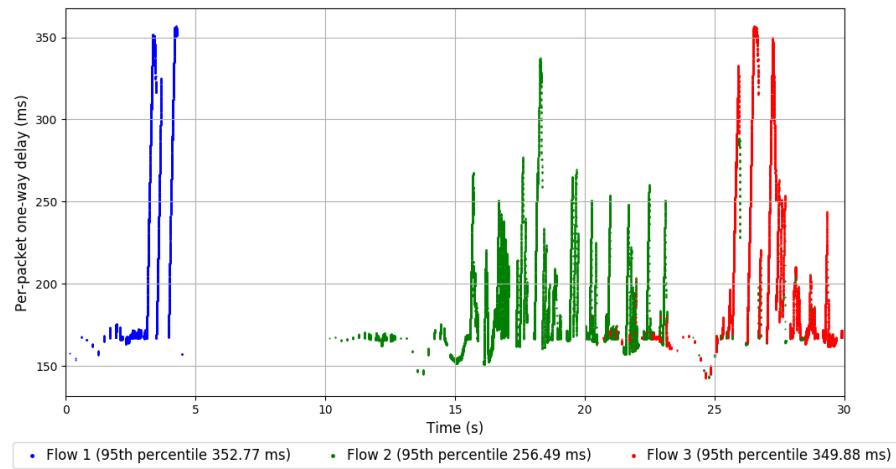
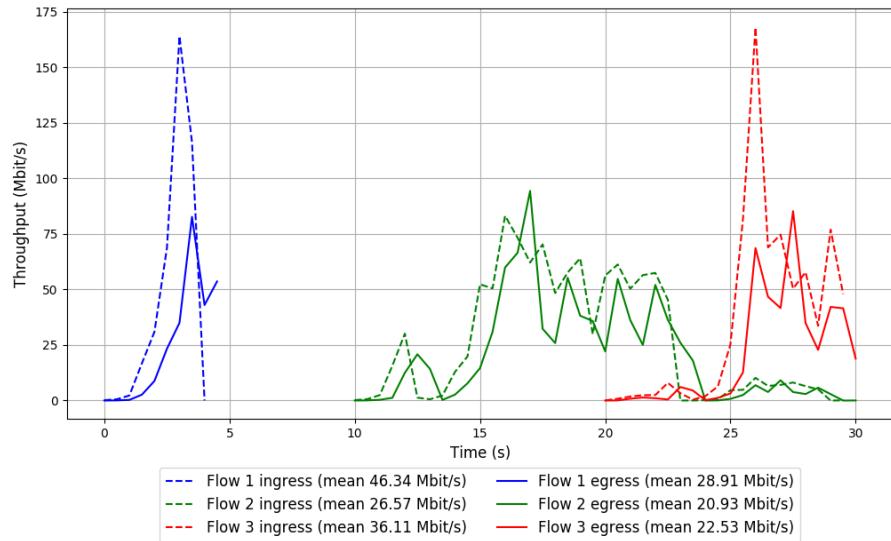


Run 3: Statistics of Verus

```
Start at: 2019-01-26 00:35:43
End at: 2019-01-26 00:36:13
Local clock offset: -0.41 ms
Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2019-01-26 02:35:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 25.33 Mbit/s
95th percentile per-packet one-way delay: 341.925 ms
Loss rate: 30.64%
-- Flow 1:
Average throughput: 28.91 Mbit/s
95th percentile per-packet one-way delay: 352.768 ms
Loss rate: 37.62%
-- Flow 2:
Average throughput: 20.93 Mbit/s
95th percentile per-packet one-way delay: 256.485 ms
Loss rate: 22.27%
-- Flow 3:
Average throughput: 22.53 Mbit/s
95th percentile per-packet one-way delay: 349.877 ms
Loss rate: 39.14%
```

Run 3: Report of Verus — Data Link

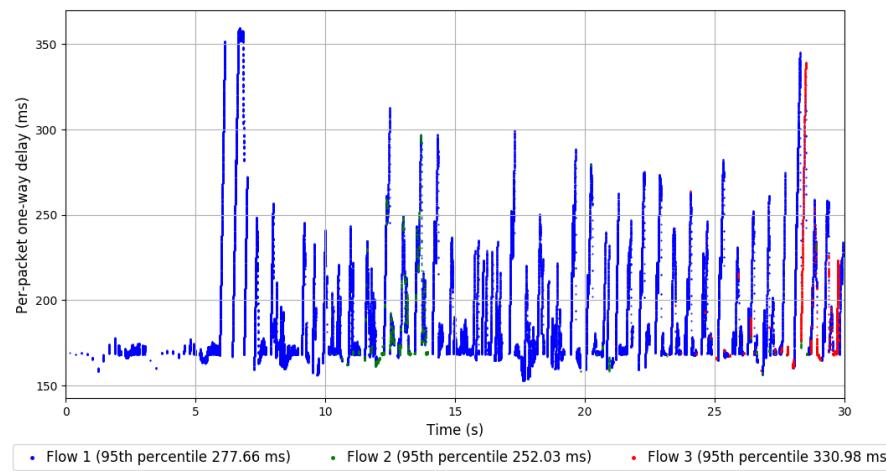
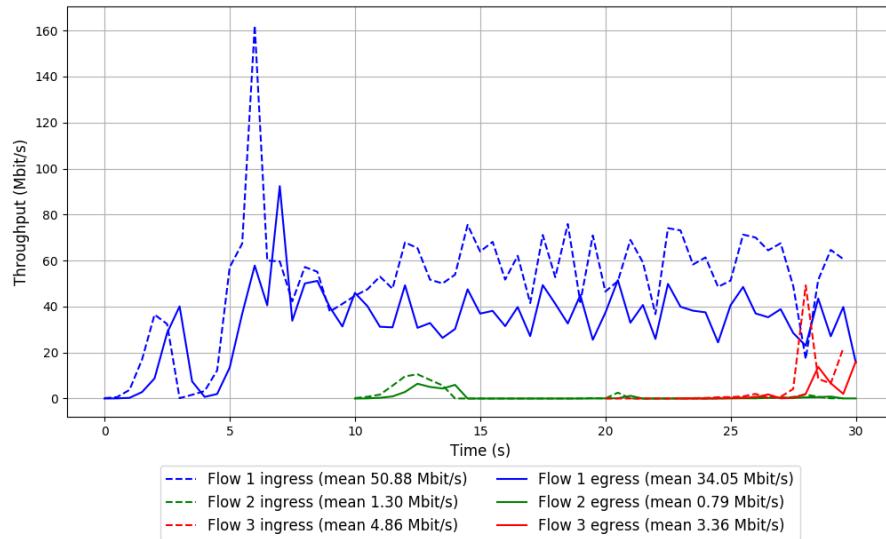


Run 4: Statistics of Verus

```
Start at: 2019-01-26 01:30:07
End at: 2019-01-26 01:30:37
Local clock offset: 8.166 ms
Remote clock offset: -0.263 ms

# Below is generated by plot.py at 2019-01-26 02:35:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.31 Mbit/s
95th percentile per-packet one-way delay: 278.699 ms
Loss rate: 34.29%
-- Flow 1:
Average throughput: 34.05 Mbit/s
95th percentile per-packet one-way delay: 277.664 ms
Loss rate: 33.58%
-- Flow 2:
Average throughput: 0.79 Mbit/s
95th percentile per-packet one-way delay: 252.029 ms
Loss rate: 39.79%
-- Flow 3:
Average throughput: 3.36 Mbit/s
95th percentile per-packet one-way delay: 330.982 ms
Loss rate: 54.04%
```

Run 4: Report of Verus — Data Link

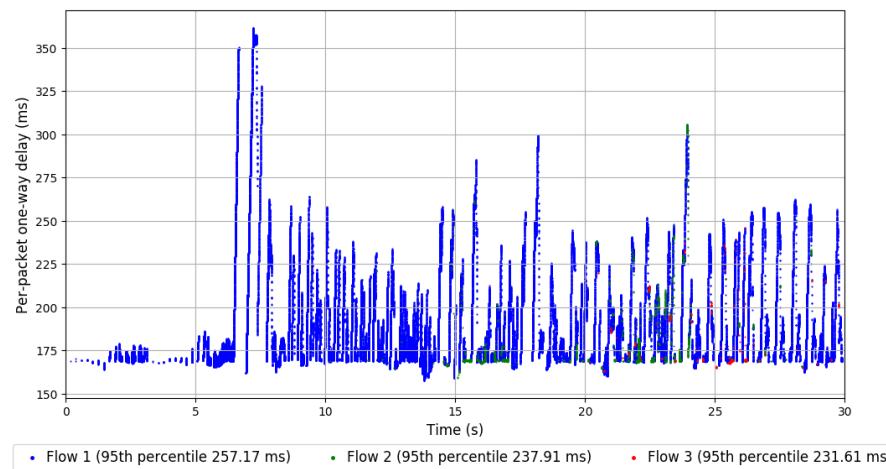
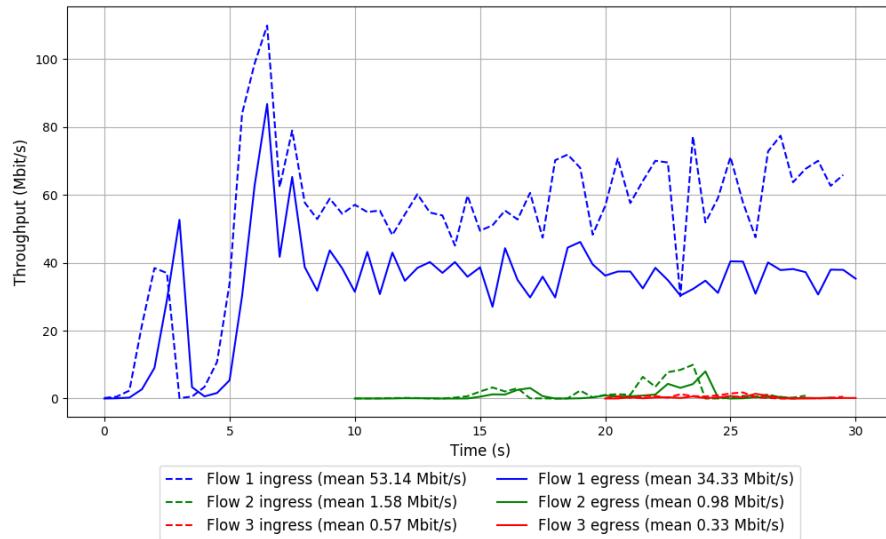


Run 5: Statistics of Verus

```
Start at: 2019-01-26 02:28:23
End at: 2019-01-26 02:28:53
Local clock offset: 0.622 ms
Remote clock offset: -0.744 ms

# Below is generated by plot.py at 2019-01-26 02:35:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.04 Mbit/s
95th percentile per-packet one-way delay: 256.940 ms
Loss rate: 36.03%
-- Flow 1:
Average throughput: 34.33 Mbit/s
95th percentile per-packet one-way delay: 257.172 ms
Loss rate: 35.97%
-- Flow 2:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 237.910 ms
Loss rate: 38.09%
-- Flow 3:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 231.611 ms
Loss rate: 43.40%
```

Run 5: Report of Verus — Data Link

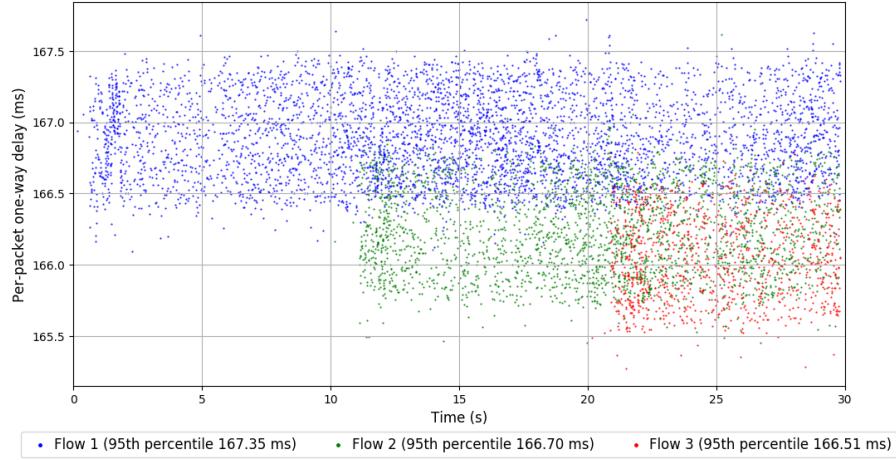
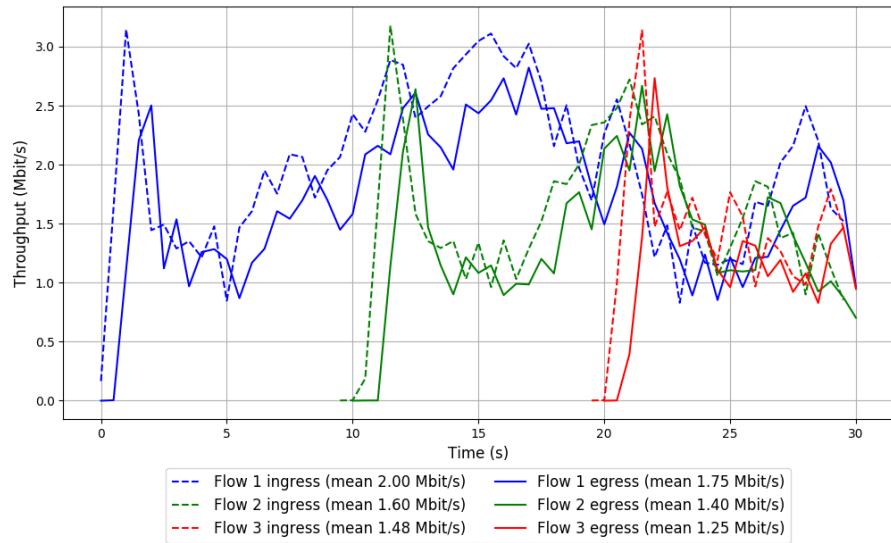


Run 1: Statistics of PCC-Vivace

```
Start at: 2019-01-25 20:45:31
End at: 2019-01-25 20:46:01
Local clock offset: 1.374 ms
Remote clock offset: -4.082 ms

# Below is generated by plot.py at 2019-01-26 02:35:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.08 Mbit/s
95th percentile per-packet one-way delay: 167.309 ms
Loss rate: 13.77%
-- Flow 1:
Average throughput: 1.75 Mbit/s
95th percentile per-packet one-way delay: 167.355 ms
Loss rate: 13.01%
-- Flow 2:
Average throughput: 1.40 Mbit/s
95th percentile per-packet one-way delay: 166.704 ms
Loss rate: 13.30%
-- Flow 3:
Average throughput: 1.25 Mbit/s
95th percentile per-packet one-way delay: 166.515 ms
Loss rate: 17.86%
```

Run 1: Report of PCC-Vivace — Data Link

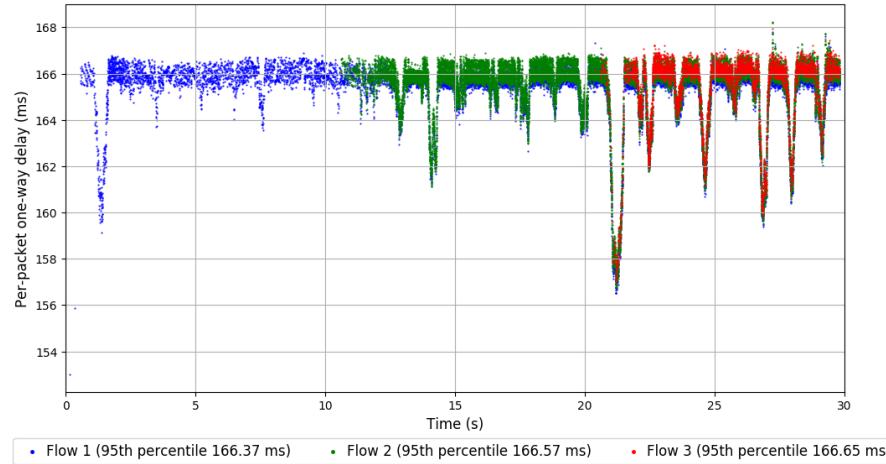
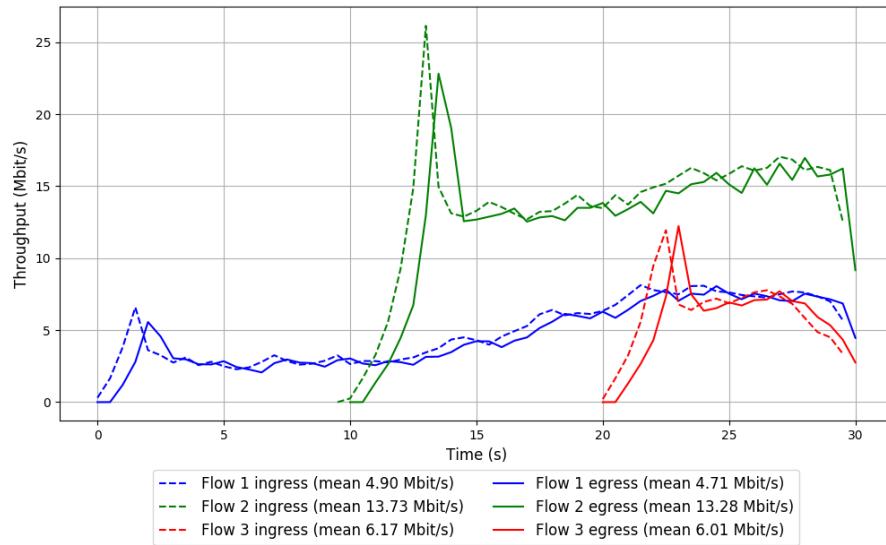


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-25 22:14:12
End at: 2019-01-25 22:14:42
Local clock offset: 18.267 ms
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2019-01-26 02:35:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.46 Mbit/s
95th percentile per-packet one-way delay: 166.539 ms
Loss rate: 4.50%
-- Flow 1:
Average throughput: 4.71 Mbit/s
95th percentile per-packet one-way delay: 166.369 ms
Loss rate: 4.67%
-- Flow 2:
Average throughput: 13.28 Mbit/s
95th percentile per-packet one-way delay: 166.570 ms
Loss rate: 4.37%
-- Flow 3:
Average throughput: 6.01 Mbit/s
95th percentile per-packet one-way delay: 166.649 ms
Loss rate: 4.70%
```

Run 2: Report of PCC-Vivace — Data Link

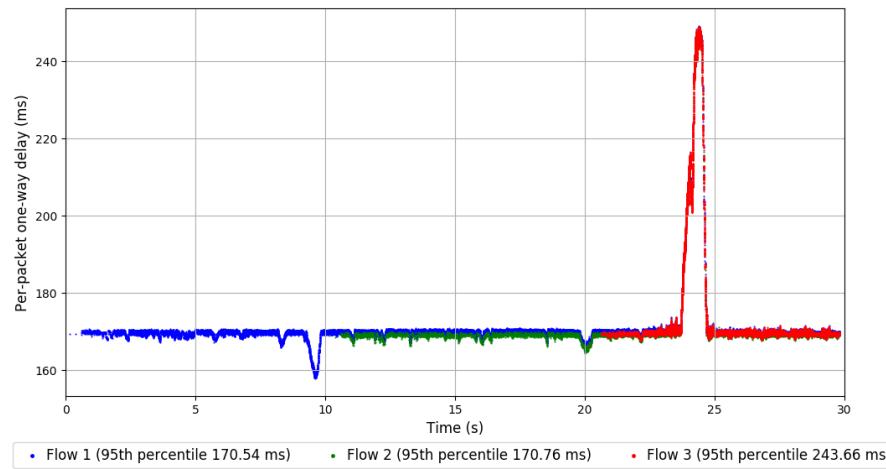
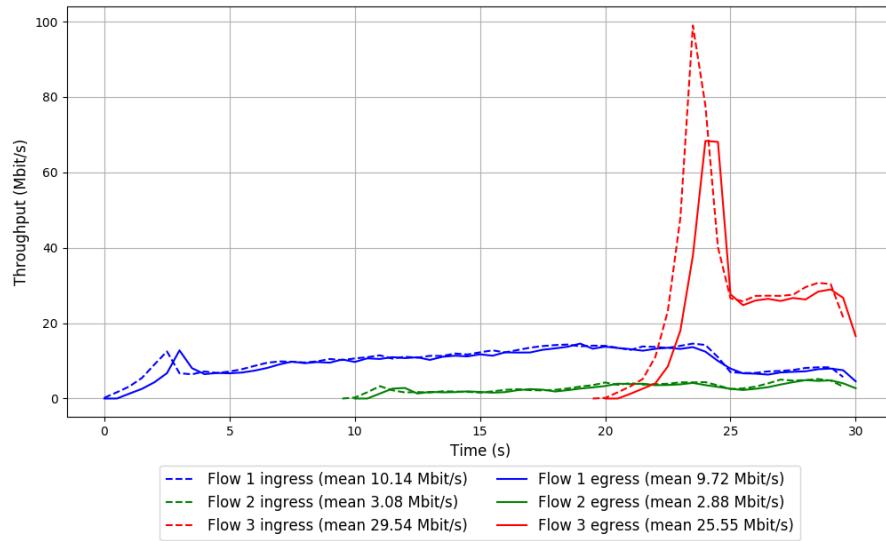


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-26 00:28:40
End at: 2019-01-26 00:29:10
Local clock offset: -1.89 ms
Remote clock offset: -1.281 ms

# Below is generated by plot.py at 2019-01-26 02:35:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.95 Mbit/s
95th percentile per-packet one-way delay: 214.114 ms
Loss rate: 9.81%
-- Flow 1:
Average throughput: 9.72 Mbit/s
95th percentile per-packet one-way delay: 170.543 ms
Loss rate: 4.87%
-- Flow 2:
Average throughput: 2.88 Mbit/s
95th percentile per-packet one-way delay: 170.759 ms
Loss rate: 7.42%
-- Flow 3:
Average throughput: 25.55 Mbit/s
95th percentile per-packet one-way delay: 243.664 ms
Loss rate: 15.45%
```

Run 3: Report of PCC-Vivace — Data Link

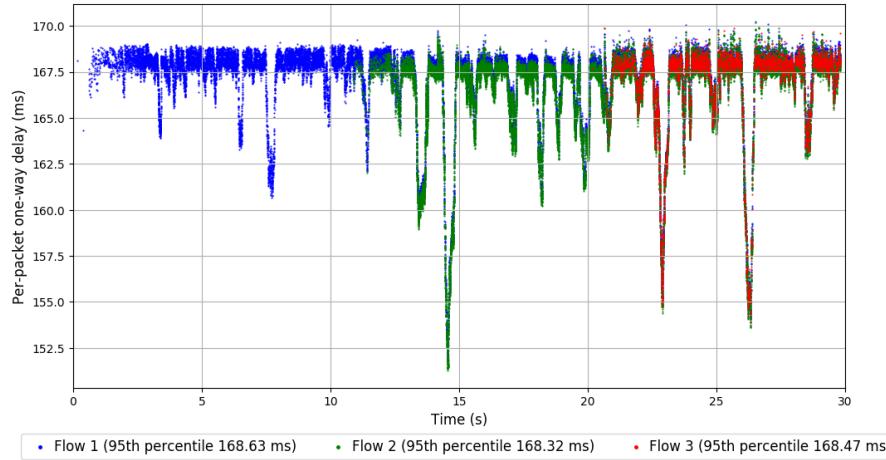
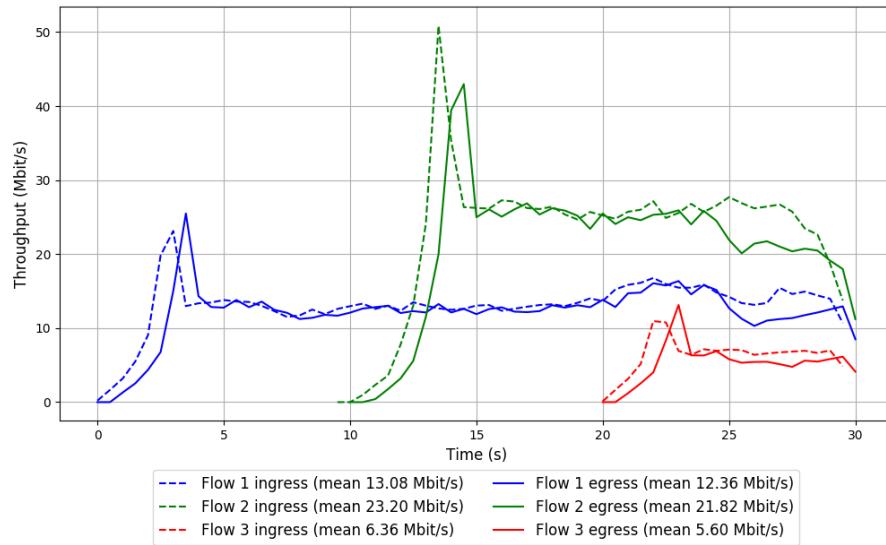


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-26 01:20:34
End at: 2019-01-26 01:21:04
Local clock offset: 7.615 ms
Remote clock offset: -0.231 ms

# Below is generated by plot.py at 2019-01-26 02:35:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.45 Mbit/s
95th percentile per-packet one-way delay: 168.530 ms
Loss rate: 7.78%
-- Flow 1:
Average throughput: 12.36 Mbit/s
95th percentile per-packet one-way delay: 168.626 ms
Loss rate: 6.26%
-- Flow 2:
Average throughput: 21.82 Mbit/s
95th percentile per-packet one-way delay: 168.323 ms
Loss rate: 8.24%
-- Flow 3:
Average throughput: 5.60 Mbit/s
95th percentile per-packet one-way delay: 168.475 ms
Loss rate: 13.94%
```

Run 4: Report of PCC-Vivace — Data Link

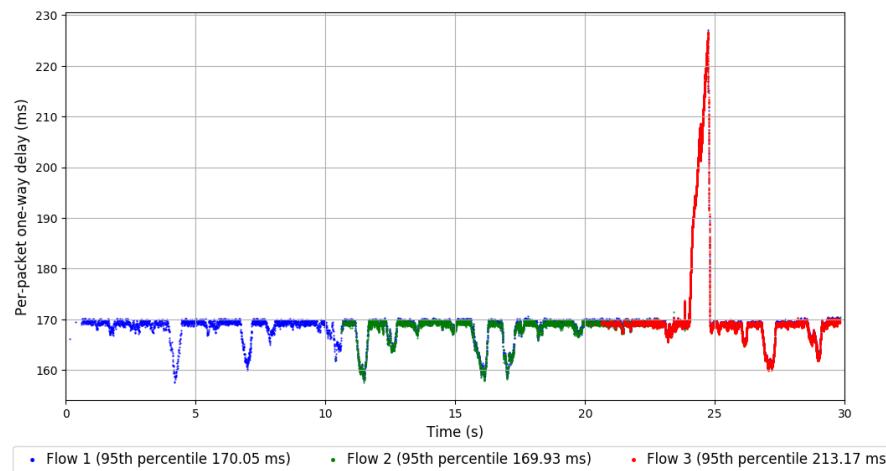
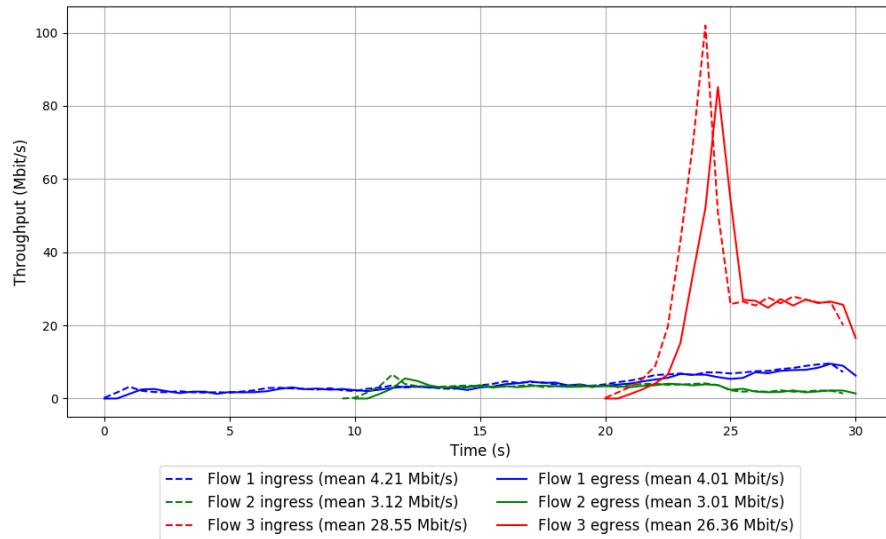


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-26 02:21:11
End at: 2019-01-26 02:21:41
Local clock offset: 0.964 ms
Remote clock offset: -0.974 ms

# Below is generated by plot.py at 2019-01-26 02:35:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.58 Mbit/s
95th percentile per-packet one-way delay: 207.243 ms
Loss rate: 7.94%
-- Flow 1:
Average throughput: 4.01 Mbit/s
95th percentile per-packet one-way delay: 170.052 ms
Loss rate: 5.35%
-- Flow 2:
Average throughput: 3.01 Mbit/s
95th percentile per-packet one-way delay: 169.929 ms
Loss rate: 4.61%
-- Flow 3:
Average throughput: 26.36 Mbit/s
95th percentile per-packet one-way delay: 213.170 ms
Loss rate: 9.82%
```

Run 5: Report of PCC-Vivace — Data Link

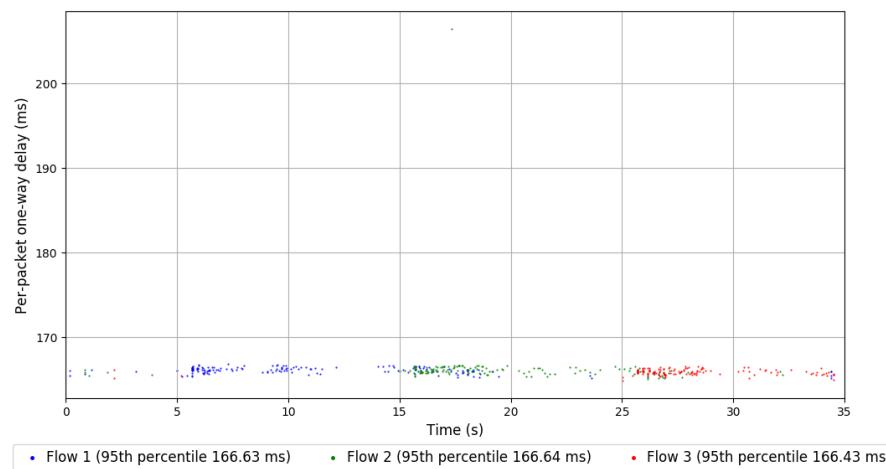
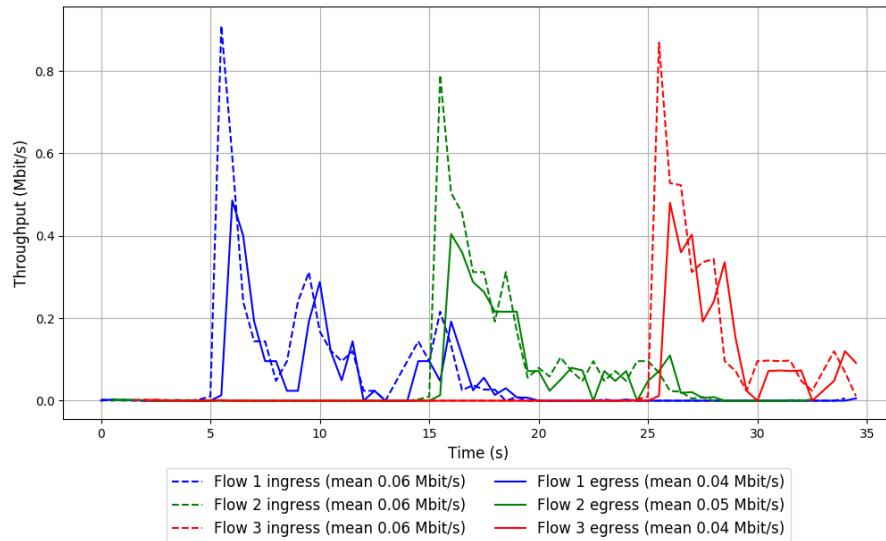


```
Run 1: Statistics of WebRTC media

Start at: 2019-01-25 19:26:32
End at: 2019-01-25 19:27:02
Local clock offset: 20.438 ms
Remote clock offset: -4.111 ms

# Below is generated by plot.py at 2019-01-26 02:35:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 166.607 ms
Loss rate: 30.04%
-- Flow 1:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 166.635 ms
Loss rate: 31.69%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 166.640 ms
Loss rate: 30.32%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 166.430 ms
Loss rate: 27.95%
```

Run 1: Report of WebRTC media — Data Link

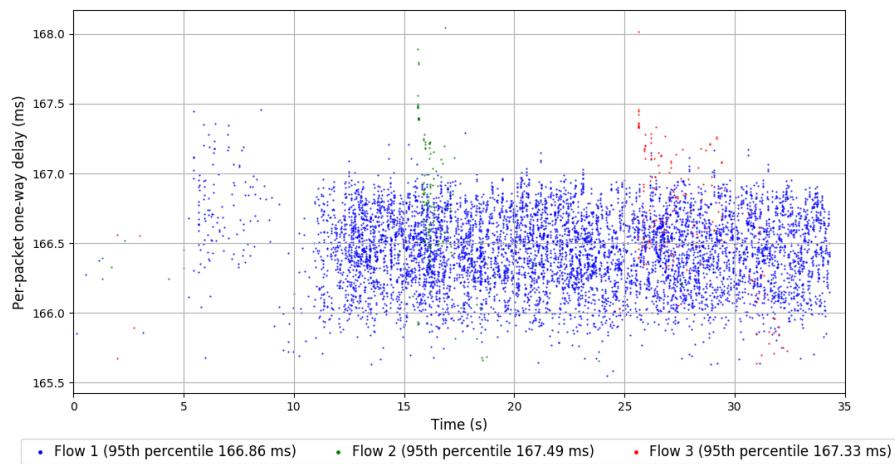
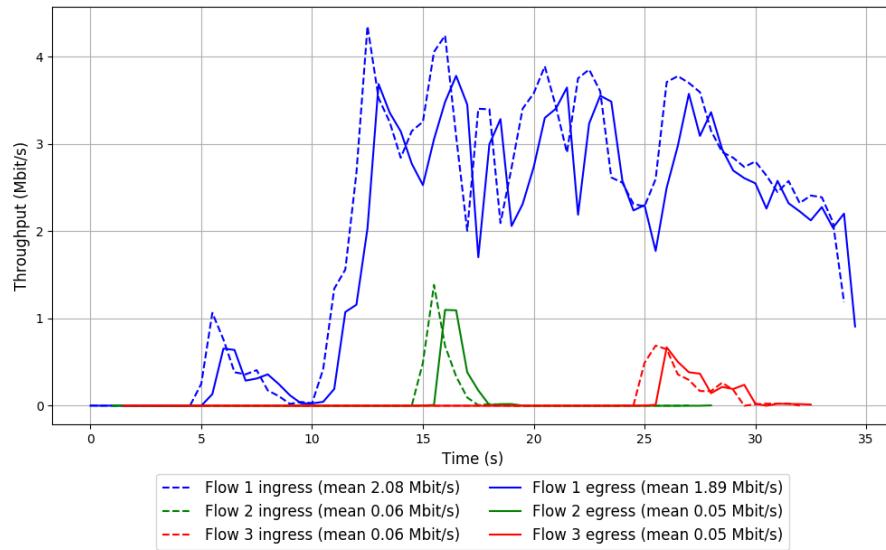


Run 2: Statistics of WebRTC media

```
Start at: 2019-01-25 21:13:30
End at: 2019-01-25 21:14:00
Local clock offset: 1.536 ms
Remote clock offset: -2.865 ms

# Below is generated by plot.py at 2019-01-26 02:35:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 166.888 ms
Loss rate: 10.17%
-- Flow 1:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 166.858 ms
Loss rate: 10.10%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 167.490 ms
Loss rate: 7.43%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 167.333 ms
Loss rate: 15.78%
```

Run 2: Report of WebRTC media — Data Link

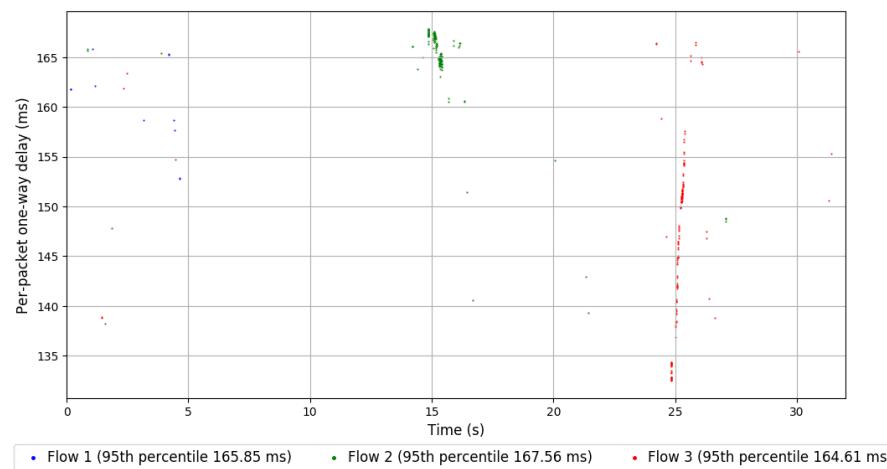
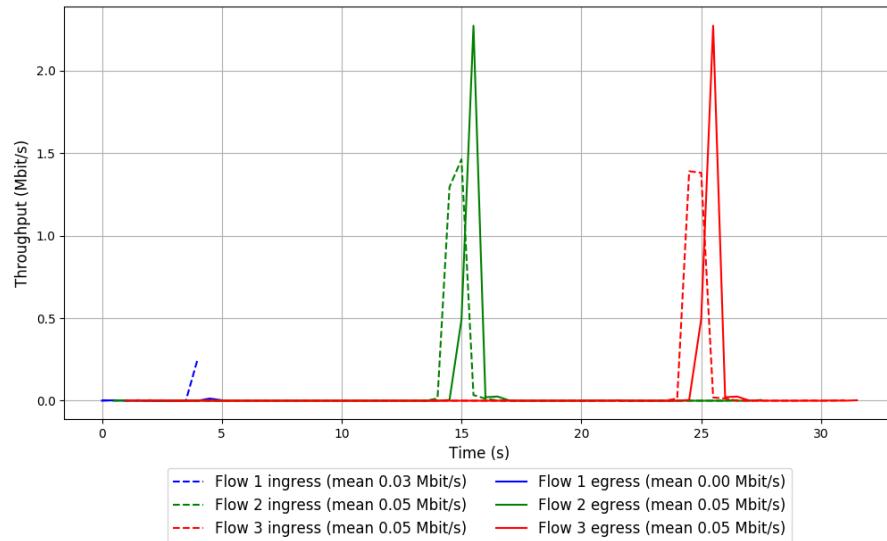


```
Run 3: Statistics of WebRTC media

Start at: 2019-01-25 23:16:50
End at: 2019-01-25 23:17:20
Local clock offset: 14.629 ms
Remote clock offset: -0.158 ms

# Below is generated by plot.py at 2019-01-26 02:35:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 167.382 ms
Loss rate: 4.08%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 165.854 ms
Loss rate: 91.07%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 167.561 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 164.611 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

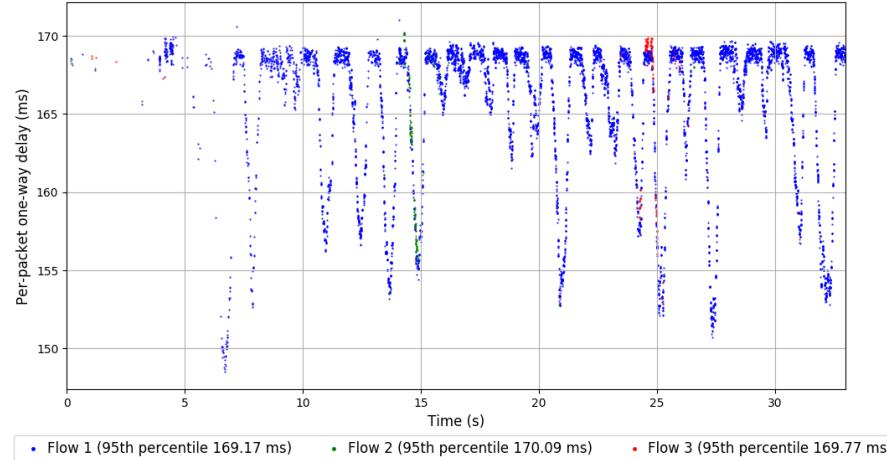
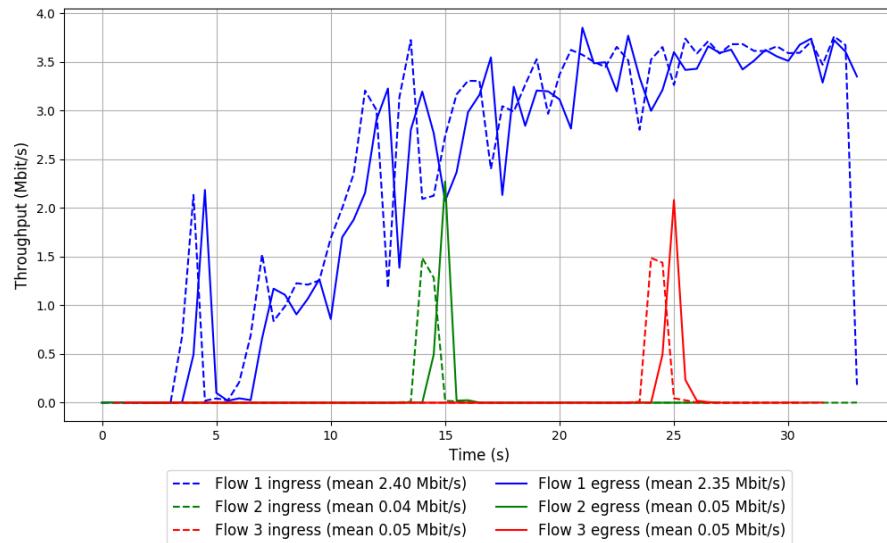


Run 4: Statistics of WebRTC media

```
Start at: 2019-01-26 00:47:21
End at: 2019-01-26 00:47:51
Local clock offset: 0.278 ms
Remote clock offset: -1.625 ms

# Below is generated by plot.py at 2019-01-26 02:35:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.44 Mbit/s
95th percentile per-packet one-way delay: 169.186 ms
Loss rate: 2.86%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 169.172 ms
Loss rate: 2.86%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 170.089 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 169.768 ms
Loss rate: 5.61%
```

Run 4: Report of WebRTC media — Data Link



```
Run 5: Statistics of WebRTC media

Start at: 2019-01-26 01:43:39
End at: 2019-01-26 01:44:09
Local clock offset: 3.902 ms
Remote clock offset: -1.178 ms

# Below is generated by plot.py at 2019-01-26 02:35:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 169.853 ms
Loss rate: 4.82%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 168.735 ms
Loss rate: 90.59%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 169.774 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 170.000 ms
Loss rate: 1.67%
```

Run 5: Report of WebRTC media — Data Link

