

Pantheon Report

Generated at 2018-12-20 10:11:34 (UTC).
Data path: China on `eno1` (*remote*) → AWS Korea on `ens5` (*local*).
Repeated the test of 19 congestion control schemes 5 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.
NTP offsets were measured against `ntp.nict.jp` and have been applied to correct the timestamps in logs.

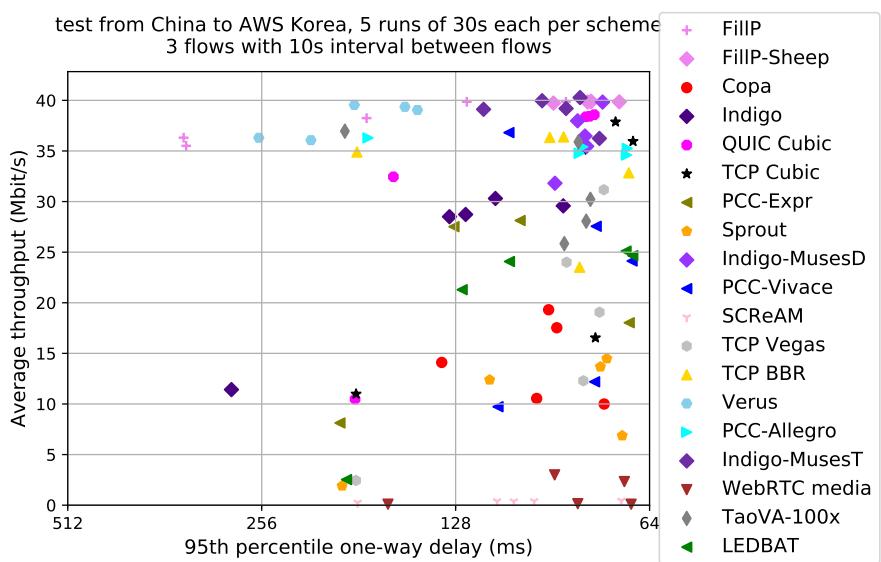
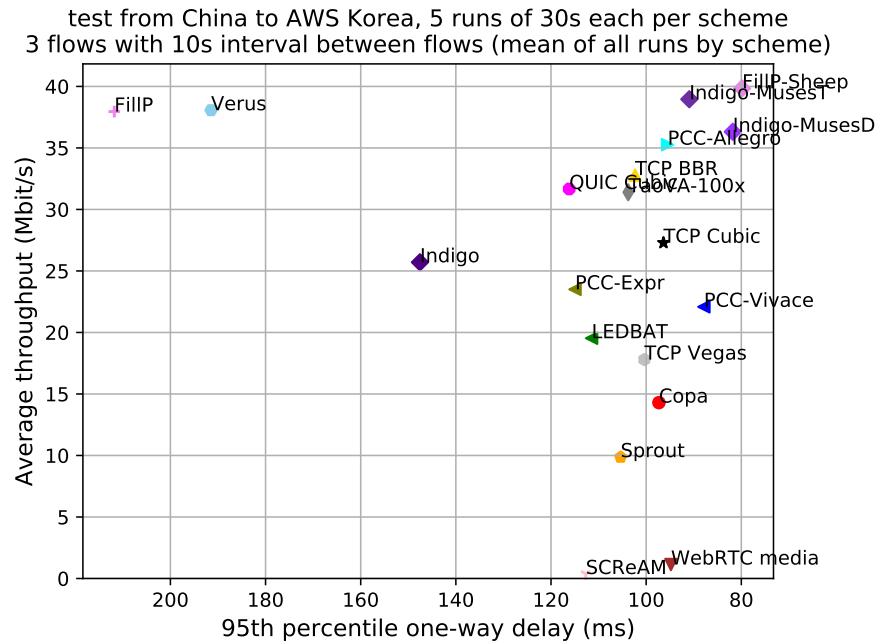
System info:

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

Git summary:

```
branch: muses @ c654af0b7d59d4ef4b914cfac404e1fc2e96dc68
third_party/fillp @ d6da1459332fce6963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 65ac1b19bbefed0c6349ae986009b4fa8643c40a
third_party/muses-refactored @ 31f8f0ba8ef8b1da76c2bc0cd0a7850c33ff64fb
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
```

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



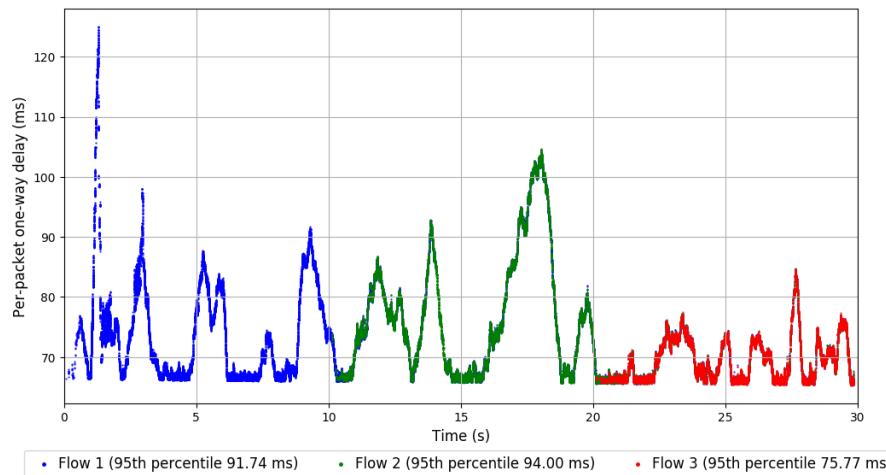
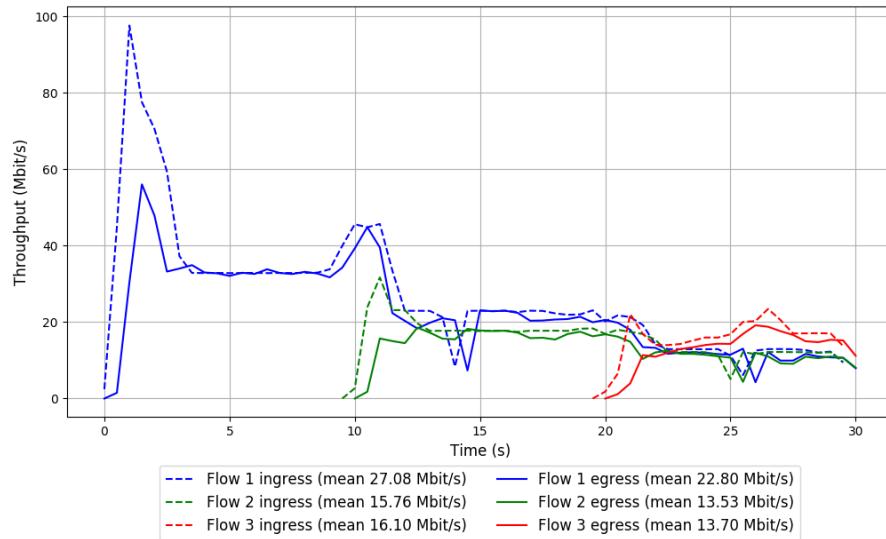
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	20.53	15.67	10.90	99.48	103.31	97.38	35.21	16.54	17.48
Copa	5	5.33	9.32	8.45	101.71	98.11	94.14	38.35	0.79	1.16
TCP Cubic	5	11.90	15.79	14.87	94.50	97.67	97.05	21.94	3.49	4.18
FillP	5	21.74	19.67	9.56	213.61	116.12	109.71	41.96	30.69	32.62
FillP-Sheep	5	30.15	9.89	9.50	90.43	72.68	72.58	14.59	16.04	15.70
Indigo	5	30.50	8.14	10.76	123.13	122.23	139.48	52.42	60.33	69.98
Indigo-MusesD	5	24.27	8.72	19.07	80.59	83.71	80.14	16.31	16.36	14.57
Indigo-MusesT	5	26.57	15.84	5.88	91.84	89.15	76.40	14.64	21.06	36.17
LEDBAT	5	12.81	7.30	5.78	101.80	112.64	119.08	0.63	1.60	2.84
PCC-Allegro	5	22.47	16.28	6.09	94.46	98.04	96.48	15.94	27.41	24.15
PCC-Expr	5	10.68	13.34	12.14	91.30	116.49	102.24	41.33	17.99	24.02
QUIC Cubic	5	21.37	9.92	11.30	118.71	97.39	100.38	3.24	3.89	5.90
SCReAM	5	0.18	0.18	0.21	112.33	112.95	108.34	0.75	1.29	1.75
Sprout	5	4.36	5.86	5.60	104.52	105.80	101.88	3.09	0.88	1.50
TaoVA-100x	5	18.99	12.16	13.11	103.51	101.55	104.48	14.58	13.36	15.93
TCP Vegas	5	7.33	9.11	13.37	97.35	100.69	99.51	41.17	0.89	1.74
Verus	5	23.54	18.69	6.58	178.94	199.06	214.51	22.38	30.82	44.86
PCC-Vivace	5	13.21	11.76	3.26	88.36	87.10	85.19	3.00	4.22	6.56
WebRTC media	5	0.82	0.27	0.05	72.60	92.37	83.38	36.61	0.19	0.02

Run 1: Statistics of TCP BBR

```
Start at: 2018-12-20 08:10:43
End at: 2018-12-20 08:11:13
Local clock offset: 9.366 ms
Remote clock offset: -24.831 ms

# Below is generated by plot.py at 2018-12-20 10:07:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.34 Mbit/s
95th percentile per-packet one-way delay: 91.417 ms
Loss rate: 15.73%
-- Flow 1:
Average throughput: 22.80 Mbit/s
95th percentile per-packet one-way delay: 91.743 ms
Loss rate: 16.12%
-- Flow 2:
Average throughput: 13.53 Mbit/s
95th percentile per-packet one-way delay: 94.004 ms
Loss rate: 14.67%
-- Flow 3:
Average throughput: 13.70 Mbit/s
95th percentile per-packet one-way delay: 75.768 ms
Loss rate: 15.86%
```

Run 1: Report of TCP BBR — Data Link

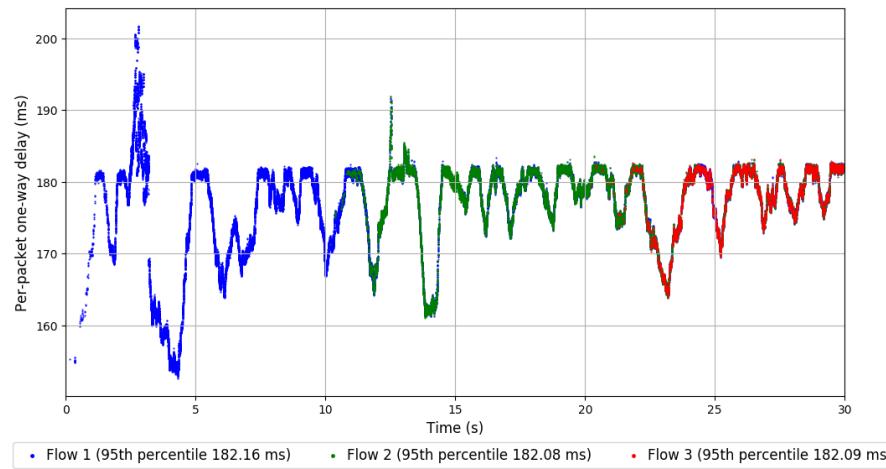
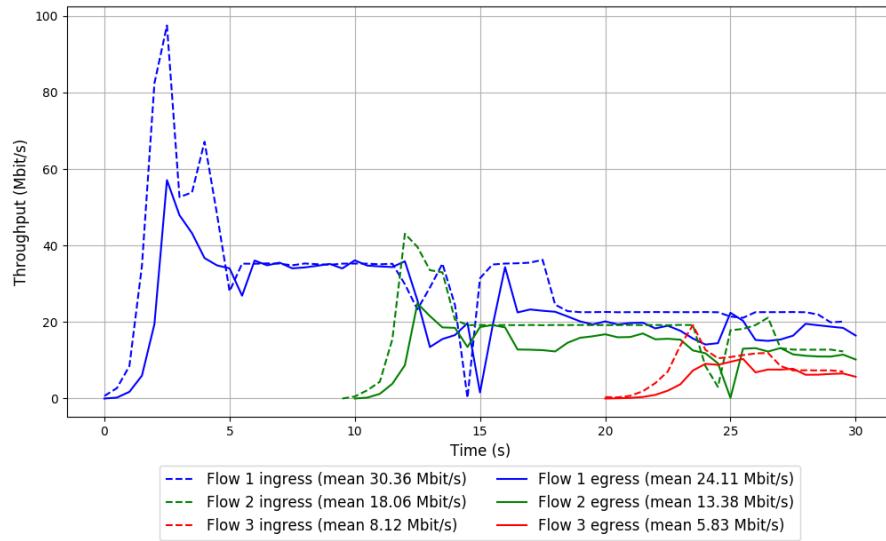


Run 2: Statistics of TCP BBR

```
Start at: 2018-12-20 08:37:52
End at: 2018-12-20 08:38:22
Local clock offset: 18.919 ms
Remote clock offset: 41.508 ms

# Below is generated by plot.py at 2018-12-20 10:07:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 34.90 Mbit/s
95th percentile per-packet one-way delay: 182.122 ms
Loss rate: 23.11%
-- Flow 1:
Average throughput: 24.11 Mbit/s
95th percentile per-packet one-way delay: 182.159 ms
Loss rate: 21.09%
-- Flow 2:
Average throughput: 13.38 Mbit/s
95th percentile per-packet one-way delay: 182.076 ms
Loss rate: 26.71%
-- Flow 3:
Average throughput: 5.83 Mbit/s
95th percentile per-packet one-way delay: 182.094 ms
Loss rate: 29.82%
```

Run 2: Report of TCP BBR — Data Link

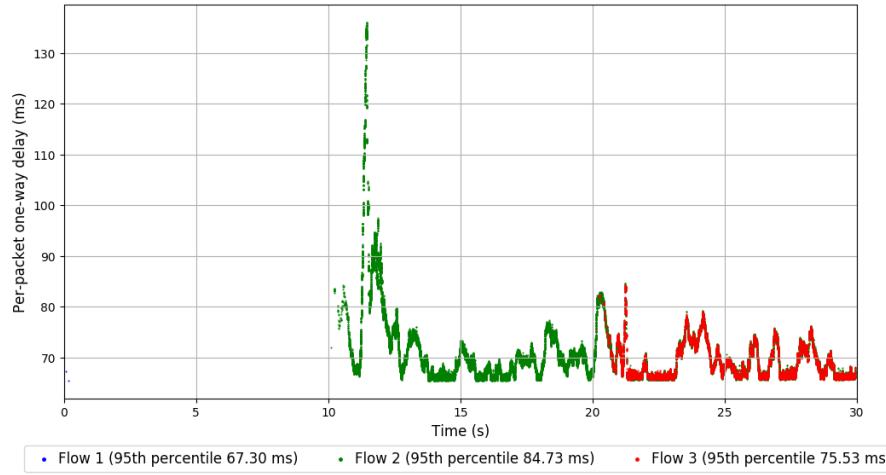
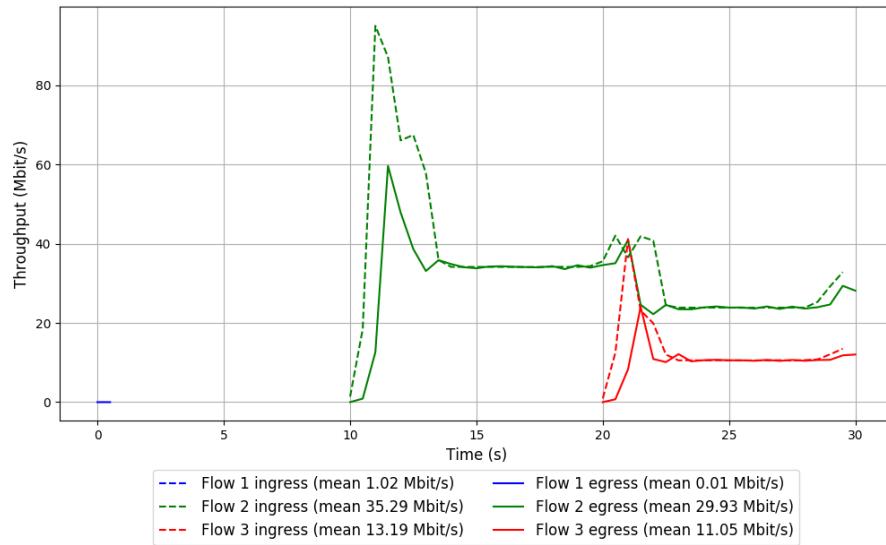


Run 3: Statistics of TCP BBR

```
Start at: 2018-12-20 09:04:49
End at: 2018-12-20 09:05:19
Local clock offset: 22.58 ms
Remote clock offset: 44.762 ms

# Below is generated by plot.py at 2018-12-20 10:07:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.51 Mbit/s
95th percentile per-packet one-way delay: 82.177 ms
Loss rate: 15.98%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 67.304 ms
Loss rate: 98.79%
-- Flow 2:
Average throughput: 29.93 Mbit/s
95th percentile per-packet one-way delay: 84.734 ms
Loss rate: 15.72%
-- Flow 3:
Average throughput: 11.05 Mbit/s
95th percentile per-packet one-way delay: 75.534 ms
Loss rate: 17.32%
```

Run 3: Report of TCP BBR — Data Link

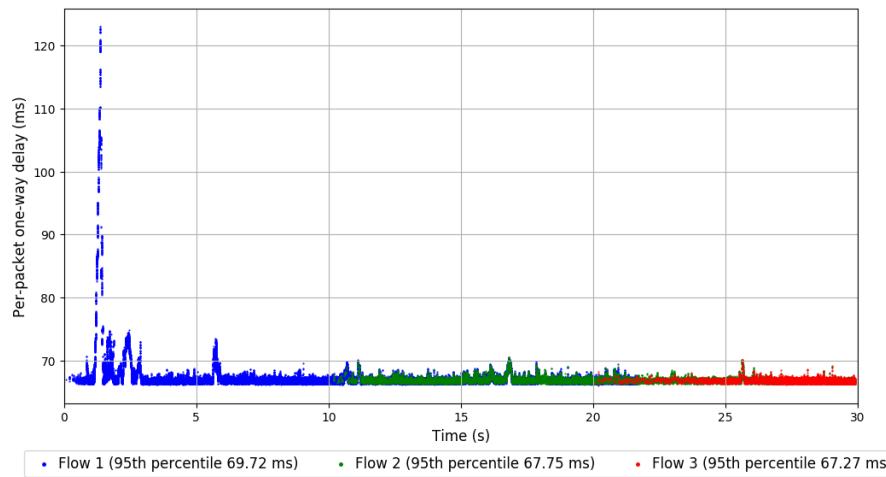
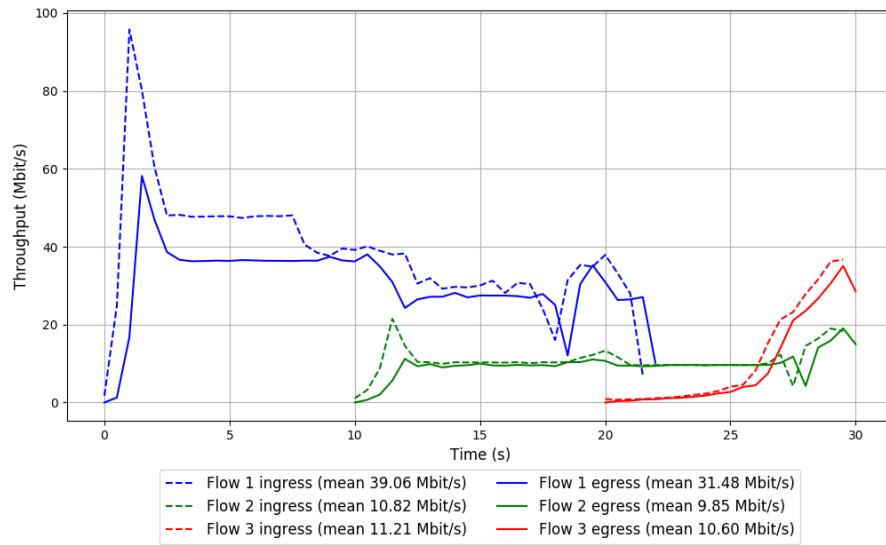


Run 4: Statistics of TCP BBR

```
Start at: 2018-12-20 09:28:45
End at: 2018-12-20 09:29:15
Local clock offset: 4.667 ms
Remote clock offset: 31.765 ms

# Below is generated by plot.py at 2018-12-20 10:07:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 32.84 Mbit/s
95th percentile per-packet one-way delay: 68.940 ms
Loss rate: 16.37%
-- Flow 1:
Average throughput: 31.48 Mbit/s
95th percentile per-packet one-way delay: 69.719 ms
Loss rate: 19.40%
-- Flow 2:
Average throughput: 9.85 Mbit/s
95th percentile per-packet one-way delay: 67.748 ms
Loss rate: 9.55%
-- Flow 3:
Average throughput: 10.60 Mbit/s
95th percentile per-packet one-way delay: 67.266 ms
Loss rate: 6.60%
```

Run 4: Report of TCP BBR — Data Link

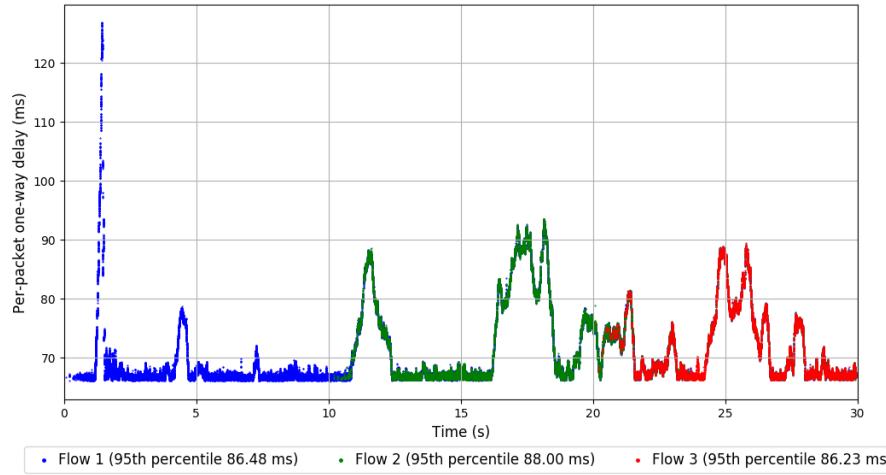
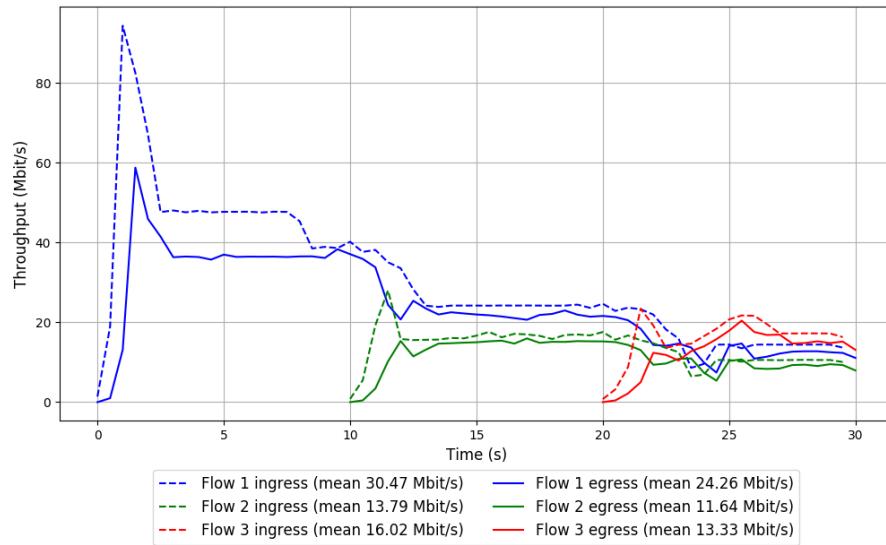


Run 5: Statistics of TCP BBR

```
Start at: 2018-12-20 10:01:28
End at: 2018-12-20 10:01:58
Local clock offset: 6.194 ms
Remote clock offset: 54.737 ms

# Below is generated by plot.py at 2018-12-20 10:07:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.39 Mbit/s
95th percentile per-packet one-way delay: 87.020 ms
Loss rate: 19.37%
-- Flow 1:
Average throughput: 24.26 Mbit/s
95th percentile per-packet one-way delay: 86.476 ms
Loss rate: 20.65%
-- Flow 2:
Average throughput: 11.64 Mbit/s
95th percentile per-packet one-way delay: 88.005 ms
Loss rate: 16.07%
-- Flow 3:
Average throughput: 13.33 Mbit/s
95th percentile per-packet one-way delay: 86.233 ms
Loss rate: 17.78%
```

Run 5: Report of TCP BBR — Data Link

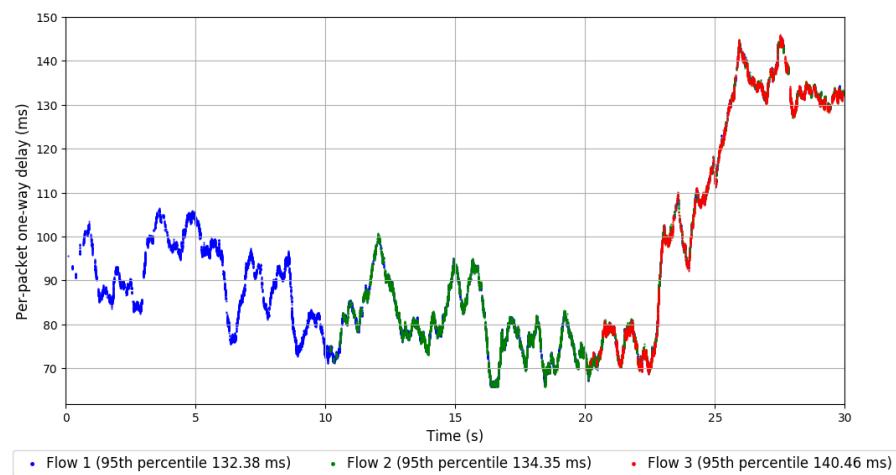
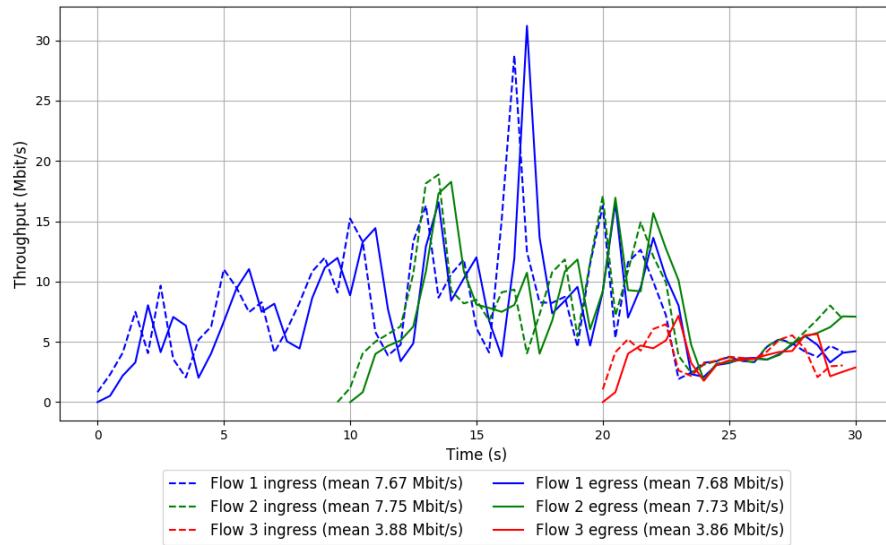


Run 1: Statistics of Copa

```
Start at: 2018-12-20 08:14:39
End at: 2018-12-20 08:15:09
Local clock offset: 12.499 ms
Remote clock offset: -29.649 ms

# Below is generated by plot.py at 2018-12-20 10:07:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.10 Mbit/s
95th percentile per-packet one-way delay: 134.526 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 7.68 Mbit/s
95th percentile per-packet one-way delay: 132.383 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 7.73 Mbit/s
95th percentile per-packet one-way delay: 134.352 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 3.86 Mbit/s
95th percentile per-packet one-way delay: 140.464 ms
Loss rate: 1.49%
```

Run 1: Report of Copa — Data Link

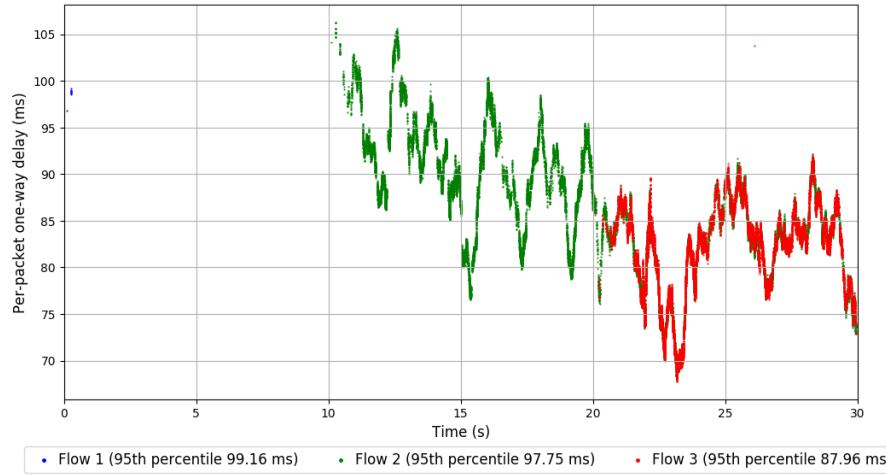
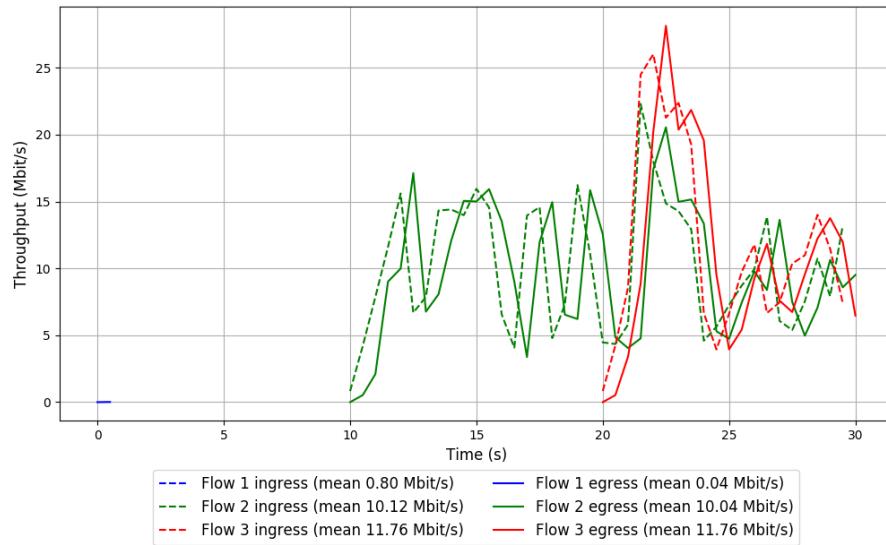


Run 2: Statistics of Copa

```
Start at: 2018-12-20 08:44:32
End at: 2018-12-20 08:45:02
Local clock offset: 19.609 ms
Remote clock offset: 50.985 ms

# Below is generated by plot.py at 2018-12-20 10:07:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.55 Mbit/s
95th percentile per-packet one-way delay: 95.815 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 99.164 ms
Loss rate: 95.12%
-- Flow 2:
Average throughput: 10.04 Mbit/s
95th percentile per-packet one-way delay: 97.755 ms
Loss rate: 1.49%
-- Flow 3:
Average throughput: 11.76 Mbit/s
95th percentile per-packet one-way delay: 87.958 ms
Loss rate: 1.27%
```

Run 2: Report of Copa — Data Link

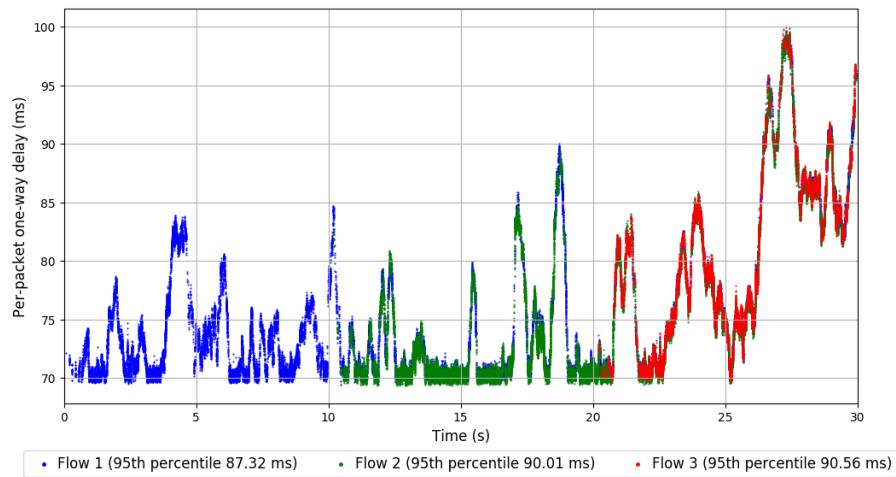
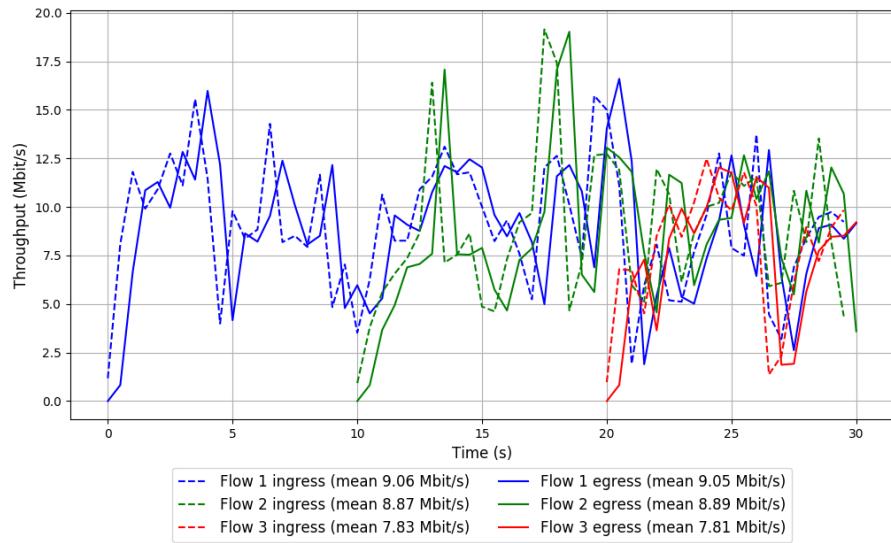


Run 3: Statistics of Copa

```
Start at: 2018-12-20 09:08:32
End at: 2018-12-20 09:09:02
Local clock offset: 17.838 ms
Remote clock offset: 37.564 ms

# Below is generated by plot.py at 2018-12-20 10:07:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.53 Mbit/s
95th percentile per-packet one-way delay: 89.167 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 9.05 Mbit/s
95th percentile per-packet one-way delay: 87.321 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 8.89 Mbit/s
95th percentile per-packet one-way delay: 90.014 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 90.558 ms
Loss rate: 1.36%
```

Run 3: Report of Copa — Data Link

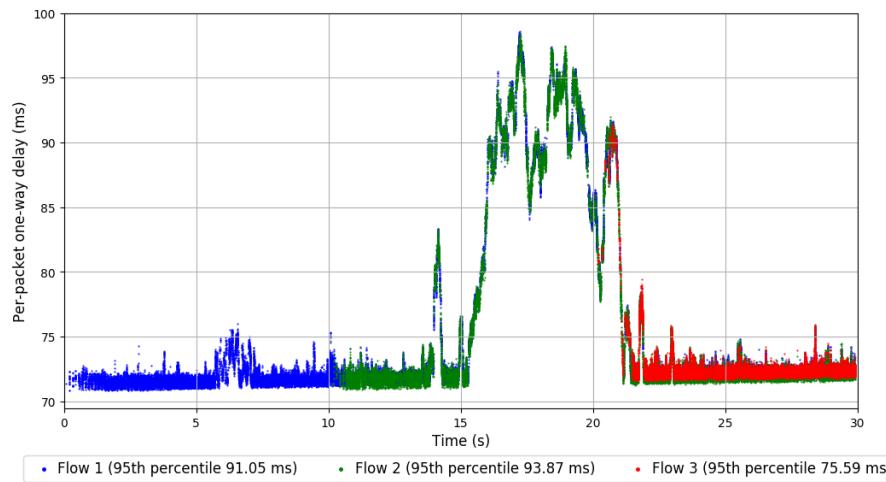
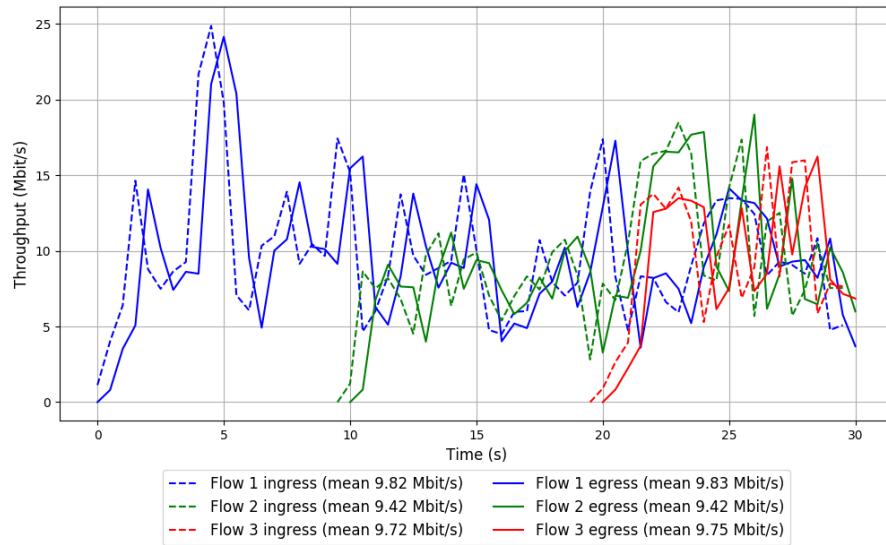


Run 4: Statistics of Copa

```
Start at: 2018-12-20 09:32:41
End at: 2018-12-20 09:33:12
Local clock offset: 3.571 ms
Remote clock offset: 30.937 ms

# Below is generated by plot.py at 2018-12-20 10:07:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.31 Mbit/s
95th percentile per-packet one-way delay: 91.805 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 9.83 Mbit/s
95th percentile per-packet one-way delay: 91.052 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 9.42 Mbit/s
95th percentile per-packet one-way delay: 93.867 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 9.75 Mbit/s
95th percentile per-packet one-way delay: 75.587 ms
Loss rate: 1.00%
```

Run 4: Report of Copa — Data Link

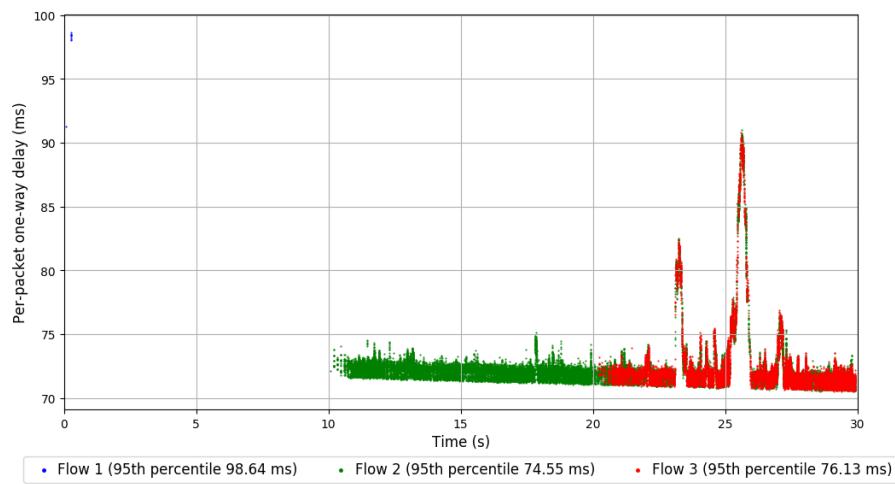
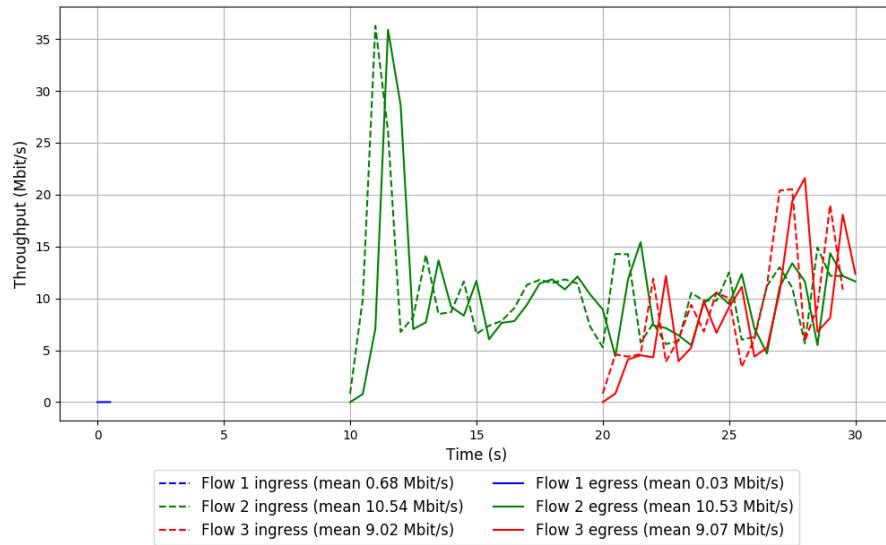


Run 5: Statistics of Copa

```
Start at: 2018-12-20 10:05:13
End at: 2018-12-20 10:05:43
Local clock offset: 5.219 ms
Remote clock offset: 45.878 ms

# Below is generated by plot.py at 2018-12-20 10:07:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.99 Mbit/s
95th percentile per-packet one-way delay: 75.277 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 98.637 ms
Loss rate: 95.46%
-- Flow 2:
Average throughput: 10.53 Mbit/s
95th percentile per-packet one-way delay: 74.549 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 9.07 Mbit/s
95th percentile per-packet one-way delay: 76.128 ms
Loss rate: 0.70%
```

Run 5: Report of Copa — Data Link

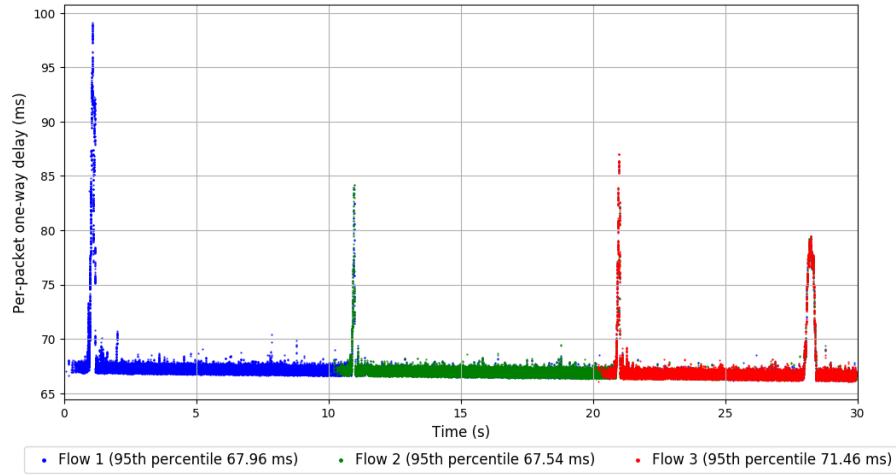
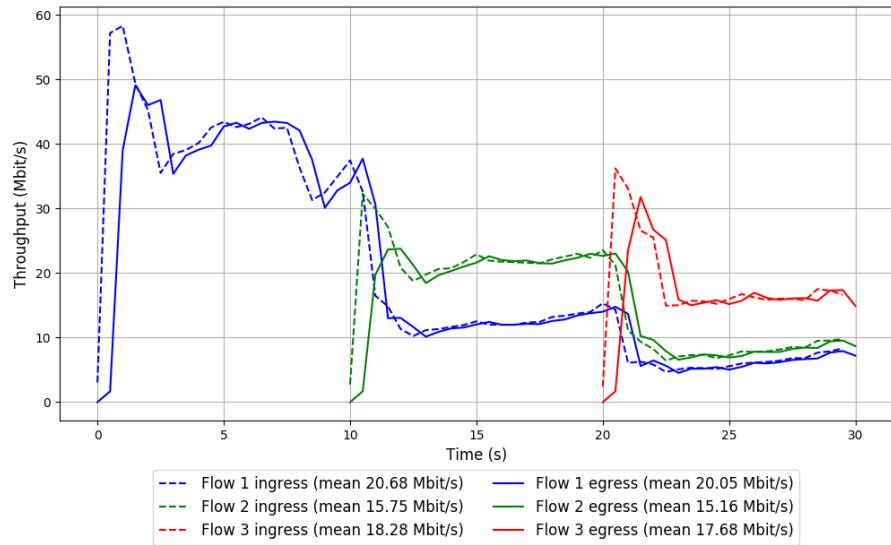


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2018-12-20 08:04:26
End at: 2018-12-20 08:04:56
Local clock offset: 3.287 ms
Remote clock offset: -15.569 ms

# Below is generated by plot.py at 2018-12-20 10:07:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.95 Mbit/s
95th percentile per-packet one-way delay: 67.894 ms
Loss rate: 3.85%
-- Flow 1:
Average throughput: 20.05 Mbit/s
95th percentile per-packet one-way delay: 67.962 ms
Loss rate: 3.44%
-- Flow 2:
Average throughput: 15.16 Mbit/s
95th percentile per-packet one-way delay: 67.540 ms
Loss rate: 4.35%
-- Flow 3:
Average throughput: 17.68 Mbit/s
95th percentile per-packet one-way delay: 71.457 ms
Loss rate: 4.42%
```

Run 1: Report of TCP Cubic — Data Link

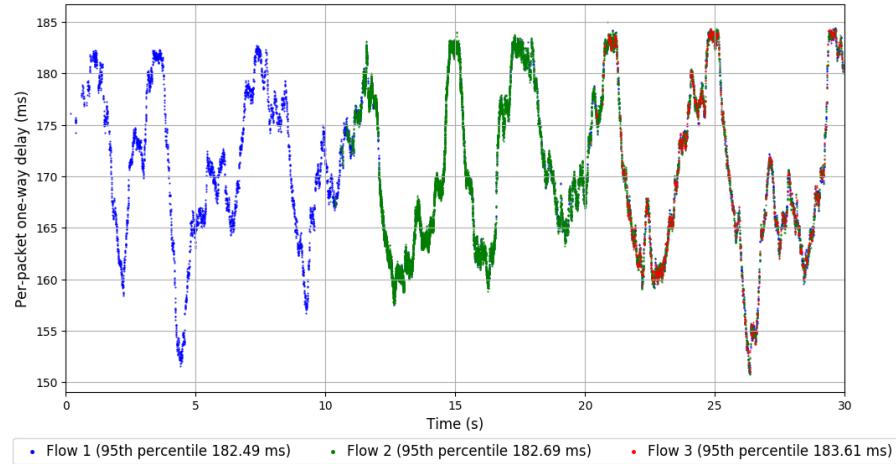
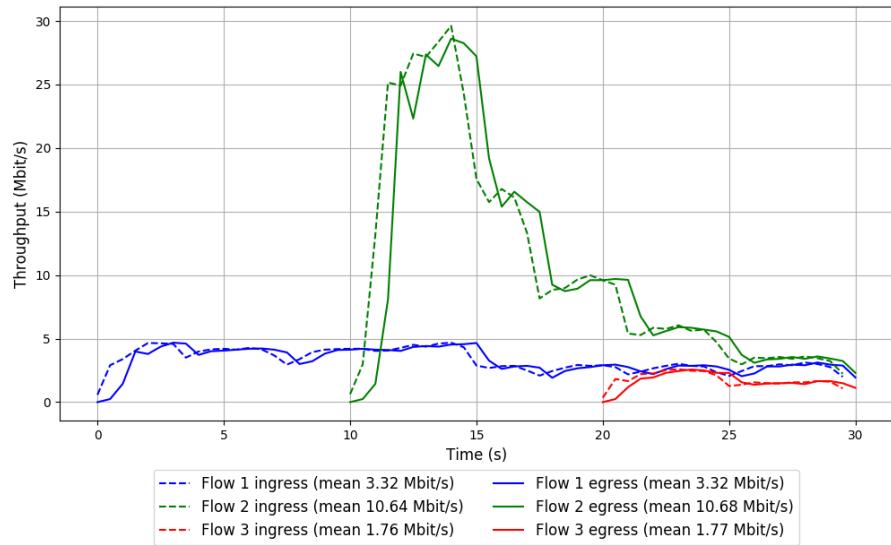


Run 2: Statistics of TCP Cubic

```
Start at: 2018-12-20 08:28:36
End at: 2018-12-20 08:29:06
Local clock offset: 16.856 ms
Remote clock offset: 9.891 ms

# Below is generated by plot.py at 2018-12-20 10:07:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.99 Mbit/s
95th percentile per-packet one-way delay: 182.691 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 3.32 Mbit/s
95th percentile per-packet one-way delay: 182.486 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 10.68 Mbit/s
95th percentile per-packet one-way delay: 182.688 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 1.77 Mbit/s
95th percentile per-packet one-way delay: 183.614 ms
Loss rate: 1.92%
```

Run 2: Report of TCP Cubic — Data Link

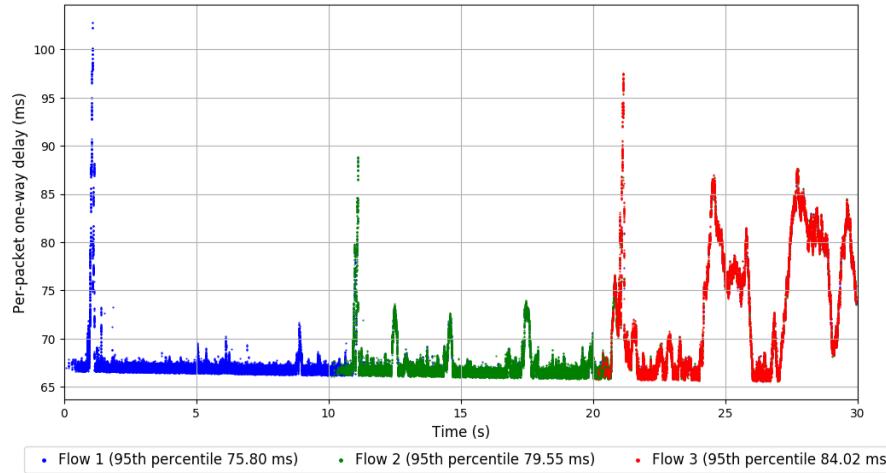
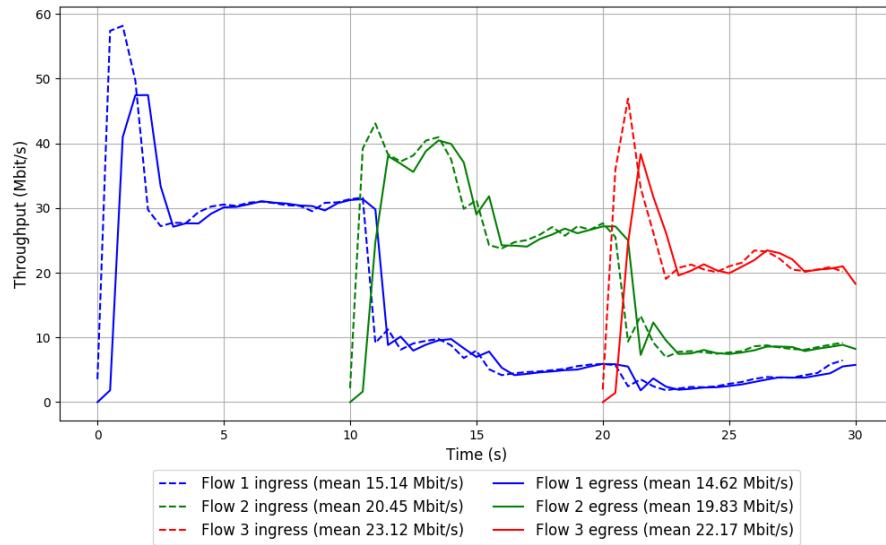


Run 3: Statistics of TCP Cubic

```
Start at: 2018-12-20 08:58:27
End at: 2018-12-20 08:58:57
Local clock offset: 22.157 ms
Remote clock offset: 55.037 ms

# Below is generated by plot.py at 2018-12-20 10:07:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.09 Mbit/s
95th percentile per-packet one-way delay: 81.266 ms
Loss rate: 3.96%
-- Flow 1:
Average throughput: 14.62 Mbit/s
95th percentile per-packet one-way delay: 75.802 ms
Loss rate: 3.74%
-- Flow 2:
Average throughput: 19.83 Mbit/s
95th percentile per-packet one-way delay: 79.550 ms
Loss rate: 3.53%
-- Flow 3:
Average throughput: 22.17 Mbit/s
95th percentile per-packet one-way delay: 84.023 ms
Loss rate: 5.15%
```

Run 3: Report of TCP Cubic — Data Link

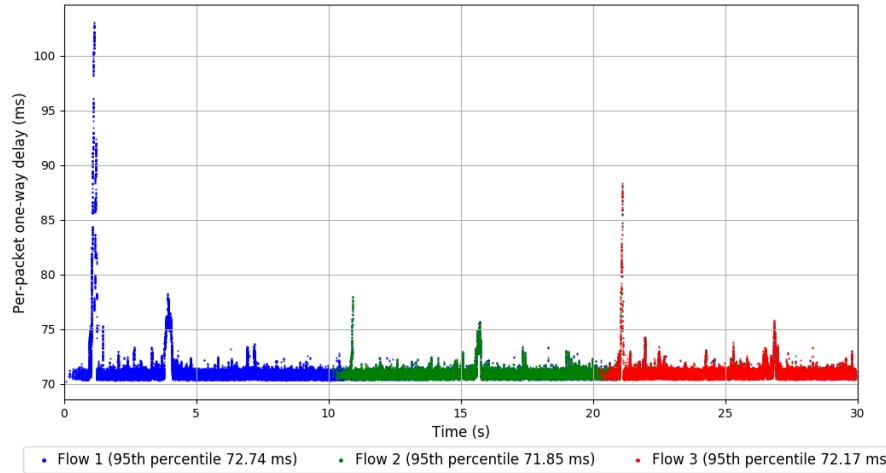
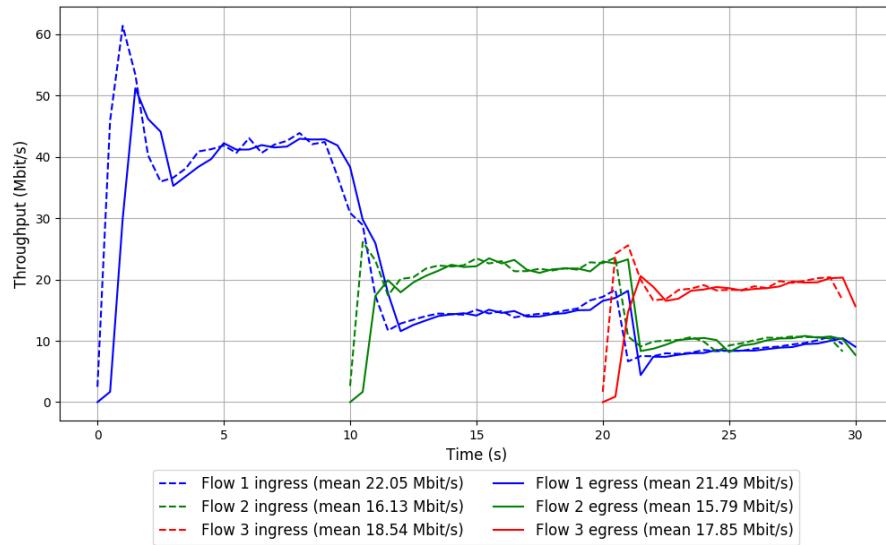


Run 4: Statistics of TCP Cubic

```
Start at: 2018-12-20 09:22:16
End at: 2018-12-20 09:22:46
Local clock offset: 6.904 ms
Remote clock offset: 29.549 ms

# Below is generated by plot.py at 2018-12-20 10:07:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.87 Mbit/s
95th percentile per-packet one-way delay: 72.283 ms
Loss rate: 3.17%
-- Flow 1:
Average throughput: 21.49 Mbit/s
95th percentile per-packet one-way delay: 72.742 ms
Loss rate: 2.94%
-- Flow 2:
Average throughput: 15.79 Mbit/s
95th percentile per-packet one-way delay: 71.848 ms
Loss rate: 2.67%
-- Flow 3:
Average throughput: 17.85 Mbit/s
95th percentile per-packet one-way delay: 72.174 ms
Loss rate: 4.85%
```

Run 4: Report of TCP Cubic — Data Link

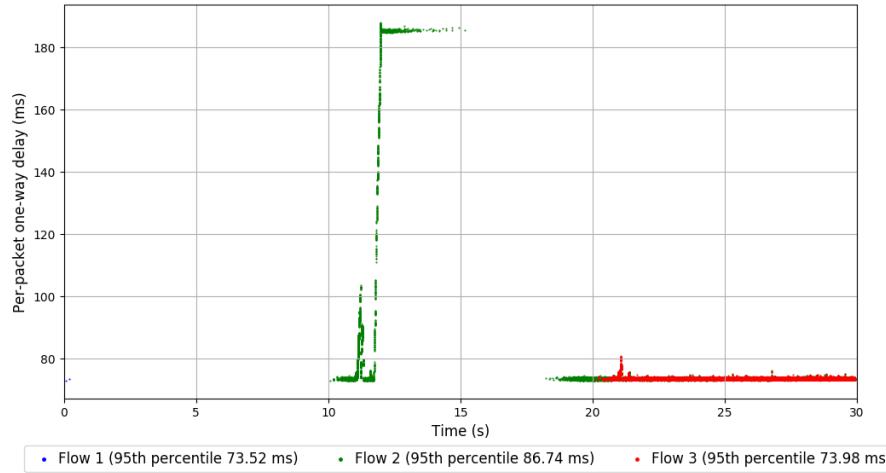
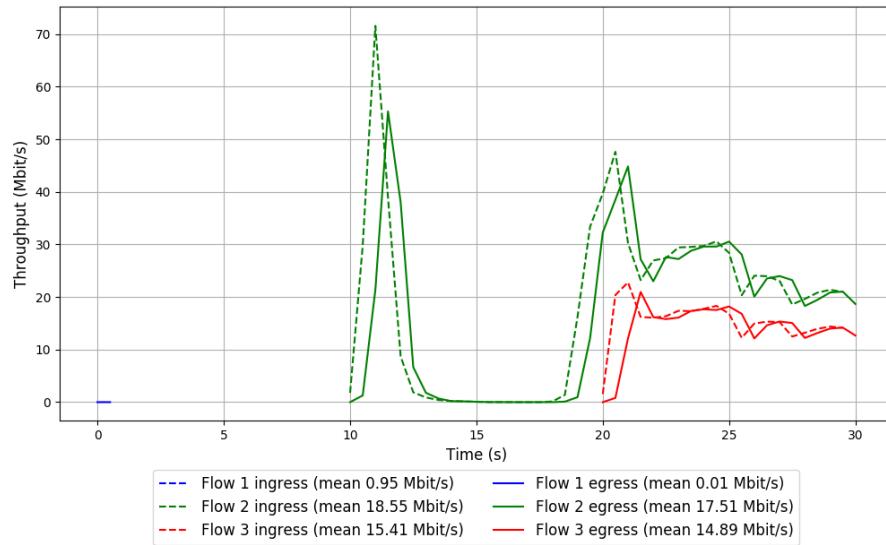


Run 5: Statistics of TCP Cubic

```
Start at: 2018-12-20 09:55:07
End at: 2018-12-20 09:55:38
Local clock offset: 5.754 ms
Remote clock offset: 45.938 ms

# Below is generated by plot.py at 2018-12-20 10:07:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.54 Mbit/s
95th percentile per-packet one-way delay: 77.664 ms
Loss rate: 5.74%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 73.523 ms
Loss rate: 98.79%
-- Flow 2:
Average throughput: 17.51 Mbit/s
95th percentile per-packet one-way delay: 86.741 ms
Loss rate: 6.21%
-- Flow 3:
Average throughput: 14.89 Mbit/s
95th percentile per-packet one-way delay: 73.979 ms
Loss rate: 4.55%
```

Run 5: Report of TCP Cubic — Data Link

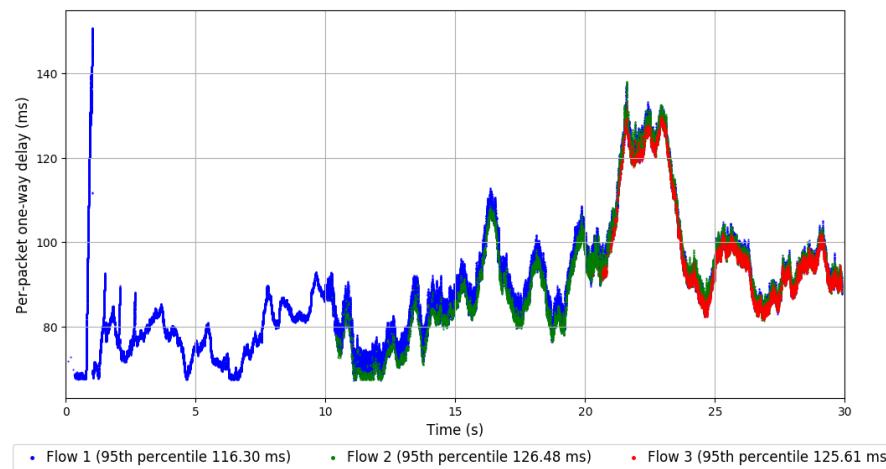
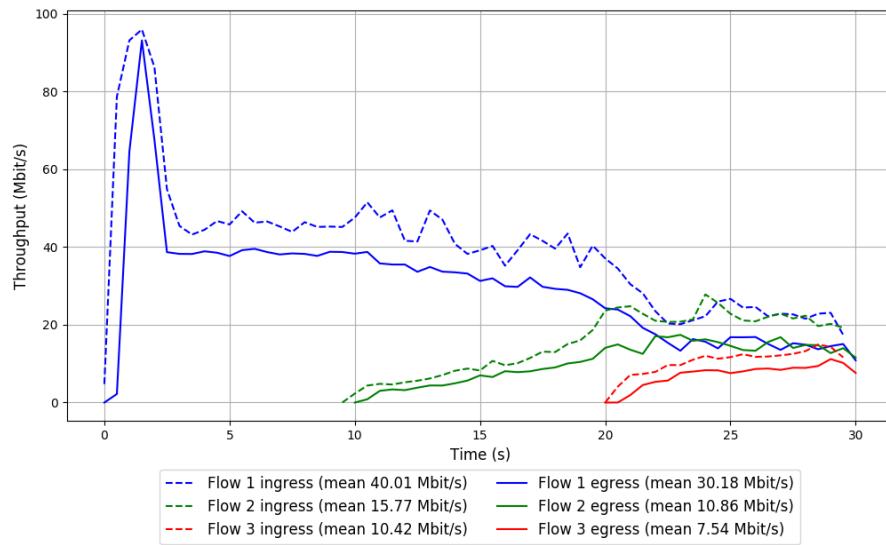


```
Run 1: Statistics of FillP

Start at: 2018-12-20 08:13:12
End at: 2018-12-20 08:13:42
Local clock offset: 11.51 ms
Remote clock offset: -29.457 ms

# Below is generated by plot.py at 2018-12-20 10:07:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.86 Mbit/s
95th percentile per-packet one-way delay: 123.001 ms
Loss rate: 26.40%
-- Flow 1:
Average throughput: 30.18 Mbit/s
95th percentile per-packet one-way delay: 116.299 ms
Loss rate: 24.84%
-- Flow 2:
Average throughput: 10.86 Mbit/s
95th percentile per-packet one-way delay: 126.480 ms
Loss rate: 31.60%
-- Flow 3:
Average throughput: 7.54 Mbit/s
95th percentile per-packet one-way delay: 125.613 ms
Loss rate: 28.67%
```

Run 1: Report of FillP — Data Link

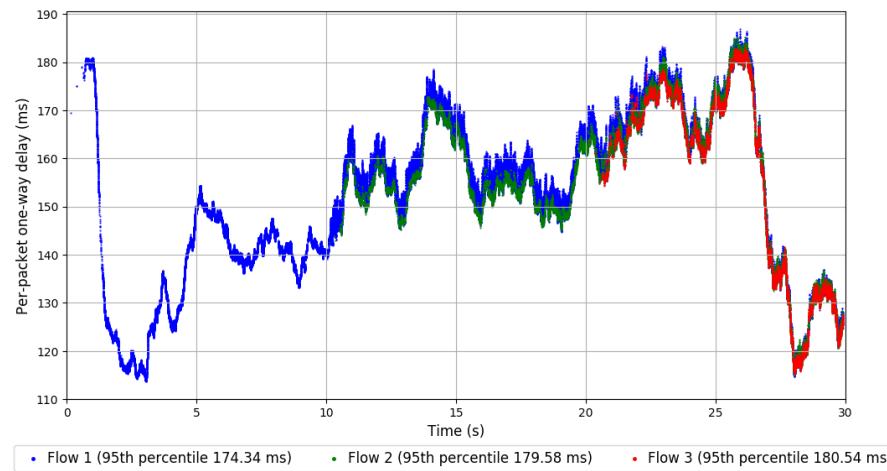
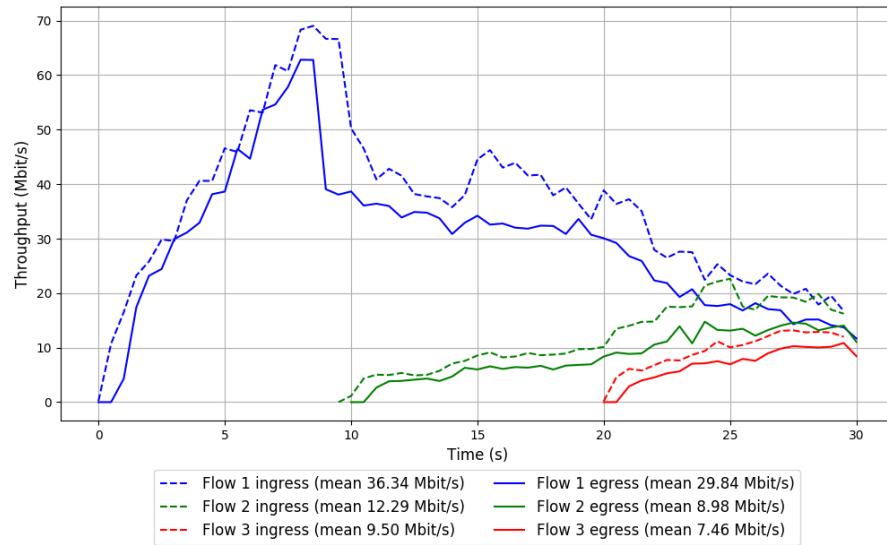


Run 2: Statistics of FillP

```
Start at: 2018-12-20 08:43:07
End at: 2018-12-20 08:43:37
Local clock offset: 20.181 ms
Remote clock offset: 49.723 ms

# Below is generated by plot.py at 2018-12-20 10:07:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.24 Mbit/s
95th percentile per-packet one-way delay: 175.964 ms
Loss rate: 20.31%
-- Flow 1:
Average throughput: 29.84 Mbit/s
95th percentile per-packet one-way delay: 174.338 ms
Loss rate: 18.45%
-- Flow 2:
Average throughput: 8.98 Mbit/s
95th percentile per-packet one-way delay: 179.584 ms
Loss rate: 27.54%
-- Flow 3:
Average throughput: 7.46 Mbit/s
95th percentile per-packet one-way delay: 180.539 ms
Loss rate: 23.02%
```

Run 2: Report of FillP — Data Link

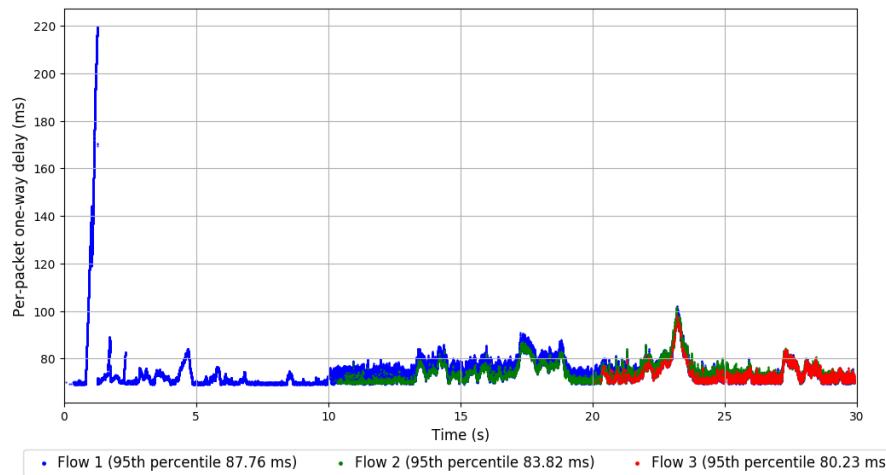
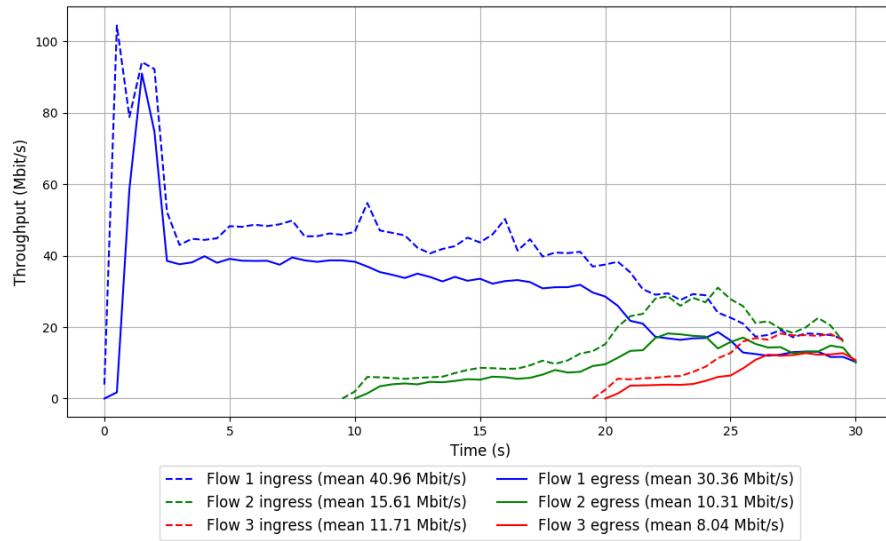


Run 3: Statistics of FillP

```
Start at: 2018-12-20 09:07:15
End at: 2018-12-20 09:07:45
Local clock offset: 20.211 ms
Remote clock offset: 39.642 ms

# Below is generated by plot.py at 2018-12-20 10:07:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.85 Mbit/s
95th percentile per-packet one-way delay: 86.297 ms
Loss rate: 28.11%
-- Flow 1:
Average throughput: 30.36 Mbit/s
95th percentile per-packet one-way delay: 87.760 ms
Loss rate: 26.17%
-- Flow 2:
Average throughput: 10.31 Mbit/s
95th percentile per-packet one-way delay: 83.821 ms
Loss rate: 34.30%
-- Flow 3:
Average throughput: 8.04 Mbit/s
95th percentile per-packet one-way delay: 80.233 ms
Loss rate: 32.00%
```

Run 3: Report of FillP — Data Link

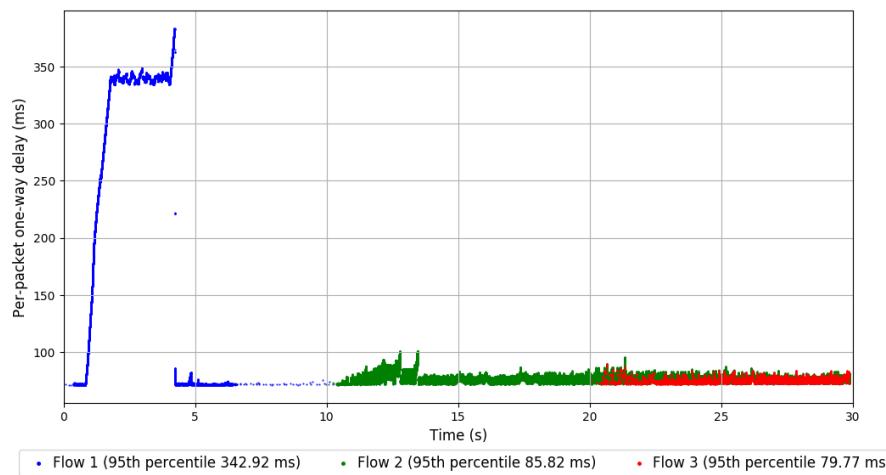
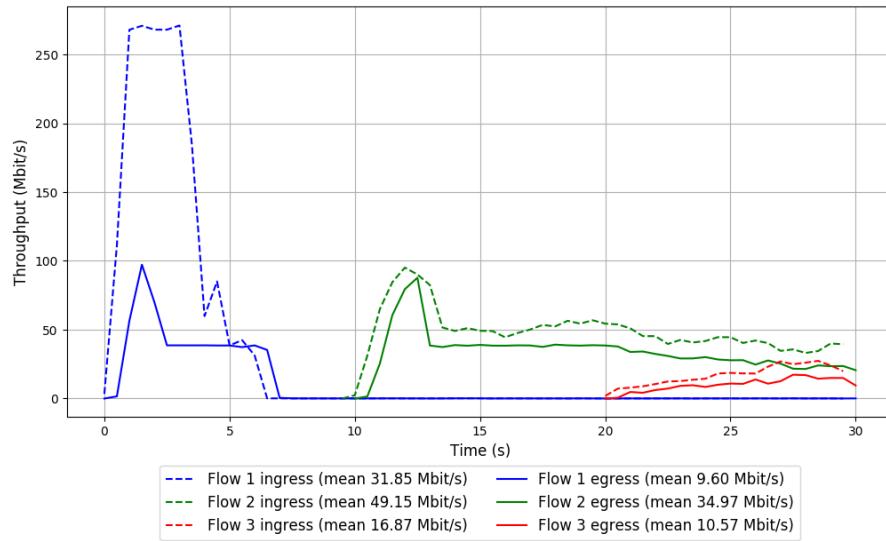


Run 4: Statistics of FillP

```
Start at: 2018-12-20 09:31:14
End at: 2018-12-20 09:31:44
Local clock offset: 4.041 ms
Remote clock offset: 27.593 ms

# Below is generated by plot.py at 2018-12-20 10:07:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.31 Mbit/s
95th percentile per-packet one-way delay: 338.351 ms
Loss rate: 48.47%
-- Flow 1:
Average throughput: 9.60 Mbit/s
95th percentile per-packet one-way delay: 342.921 ms
Loss rate: 69.98%
-- Flow 2:
Average throughput: 34.97 Mbit/s
95th percentile per-packet one-way delay: 85.822 ms
Loss rate: 29.31%
-- Flow 3:
Average throughput: 10.57 Mbit/s
95th percentile per-packet one-way delay: 79.772 ms
Loss rate: 38.20%
```

Run 4: Report of FillP — Data Link

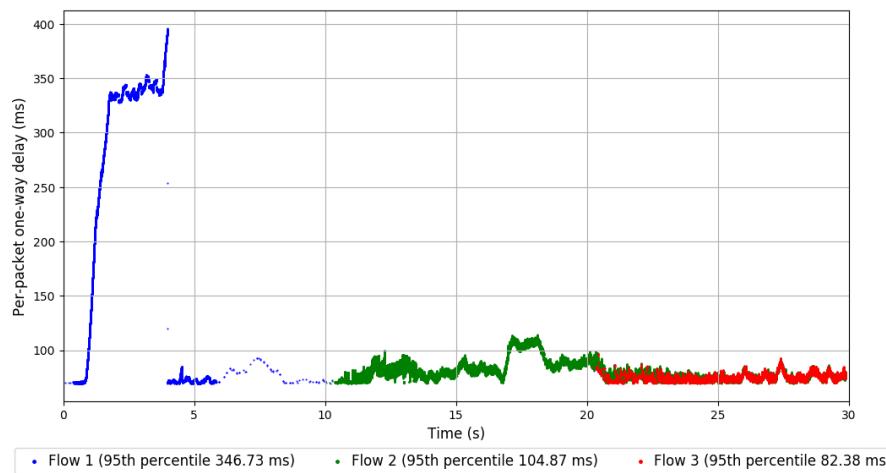
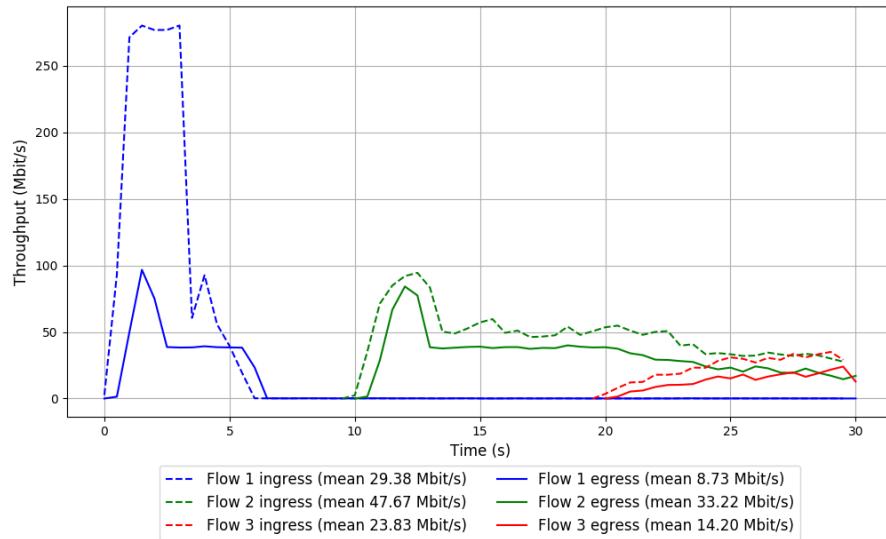


Run 5: Statistics of FillP

```
Start at: 2018-12-20 10:03:56
End at: 2018-12-20 10:04:26
Local clock offset: 5.565 ms
Remote clock offset: 51.001 ms

# Below is generated by plot.py at 2018-12-20 10:07:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.51 Mbit/s
95th percentile per-packet one-way delay: 335.319 ms
Loss rate: 48.75%
-- Flow 1:
Average throughput: 8.73 Mbit/s
95th percentile per-packet one-way delay: 346.730 ms
Loss rate: 70.36%
-- Flow 2:
Average throughput: 33.22 Mbit/s
95th percentile per-packet one-way delay: 104.869 ms
Loss rate: 30.70%
-- Flow 3:
Average throughput: 14.20 Mbit/s
95th percentile per-packet one-way delay: 82.379 ms
Loss rate: 41.22%
```

Run 5: Report of FillP — Data Link

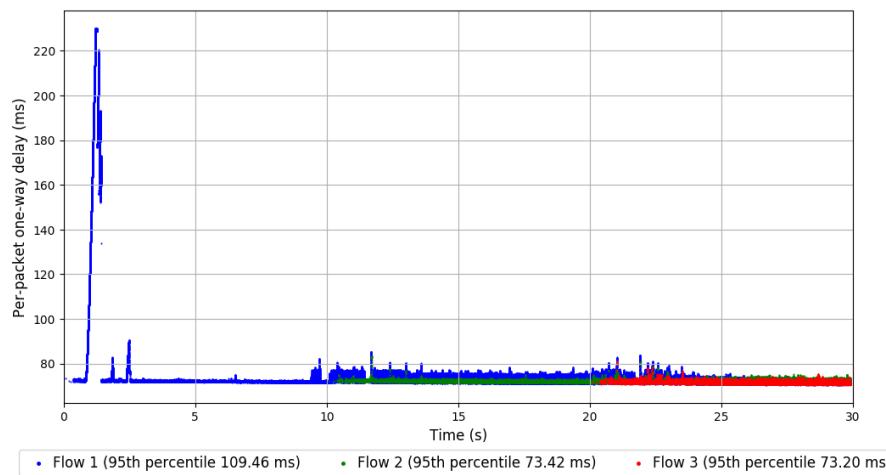
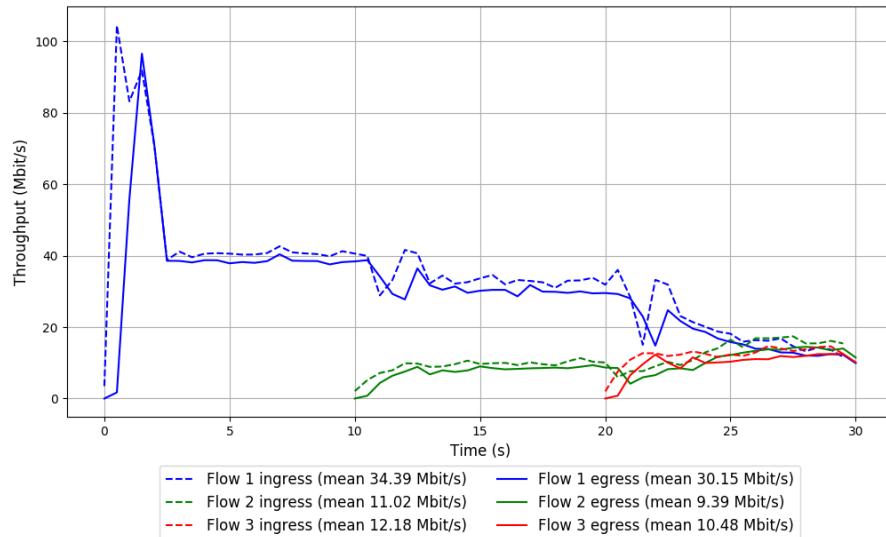


Run 1: Statistics of FillP-Sheep

```
Start at: 2018-12-20 07:54:27
End at: 2018-12-20 07:54:57
Local clock offset: 3.085 ms
Remote clock offset: 1.172 ms

# Below is generated by plot.py at 2018-12-20 10:07:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.84 Mbit/s
95th percentile per-packet one-way delay: 79.819 ms
Loss rate: 13.25%
-- Flow 1:
Average throughput: 30.15 Mbit/s
95th percentile per-packet one-way delay: 109.459 ms
Loss rate: 12.61%
-- Flow 2:
Average throughput: 9.39 Mbit/s
95th percentile per-packet one-way delay: 73.417 ms
Loss rate: 15.27%
-- Flow 3:
Average throughput: 10.48 Mbit/s
95th percentile per-packet one-way delay: 73.200 ms
Loss rate: 15.02%
```

Run 1: Report of FillP-Sheep — Data Link

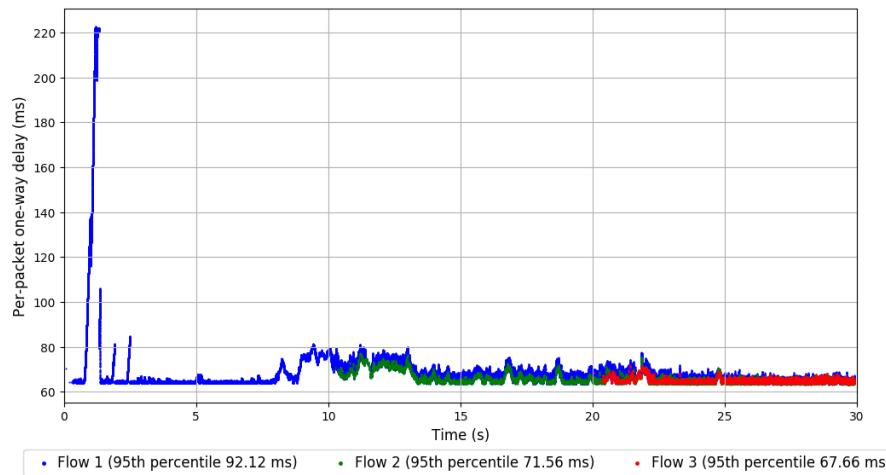
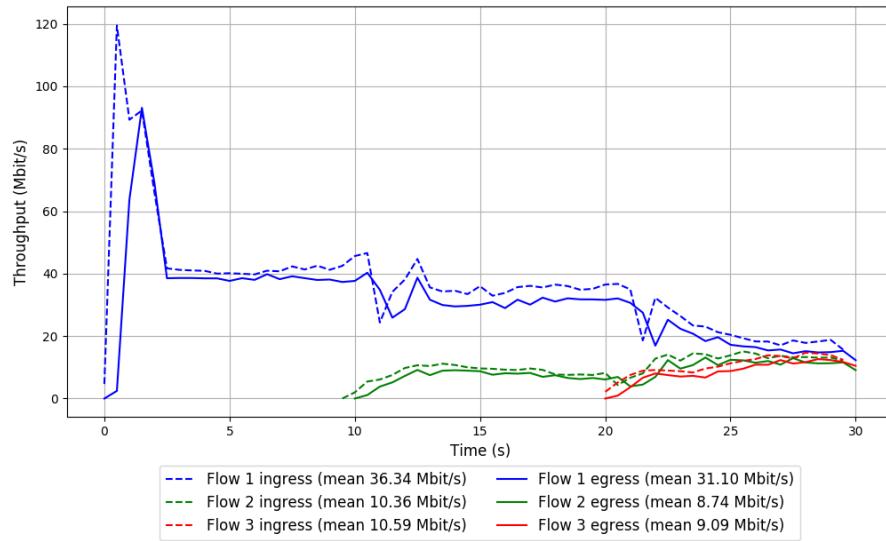


Run 2: Statistics of FillP-Sheep

```
Start at: 2018-12-20 08:18:27
End at: 2018-12-20 08:18:57
Local clock offset: 13.694 ms
Remote clock offset: -32.481 ms

# Below is generated by plot.py at 2018-12-20 10:08:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.89 Mbit/s
95th percentile per-packet one-way delay: 78.864 ms
Loss rate: 14.98%
-- Flow 1:
Average throughput: 31.10 Mbit/s
95th percentile per-packet one-way delay: 92.119 ms
Loss rate: 14.76%
-- Flow 2:
Average throughput: 8.74 Mbit/s
95th percentile per-packet one-way delay: 71.561 ms
Loss rate: 16.06%
-- Flow 3:
Average throughput: 9.09 Mbit/s
95th percentile per-packet one-way delay: 67.657 ms
Loss rate: 15.05%
```

Run 2: Report of FillP-Sheep — Data Link

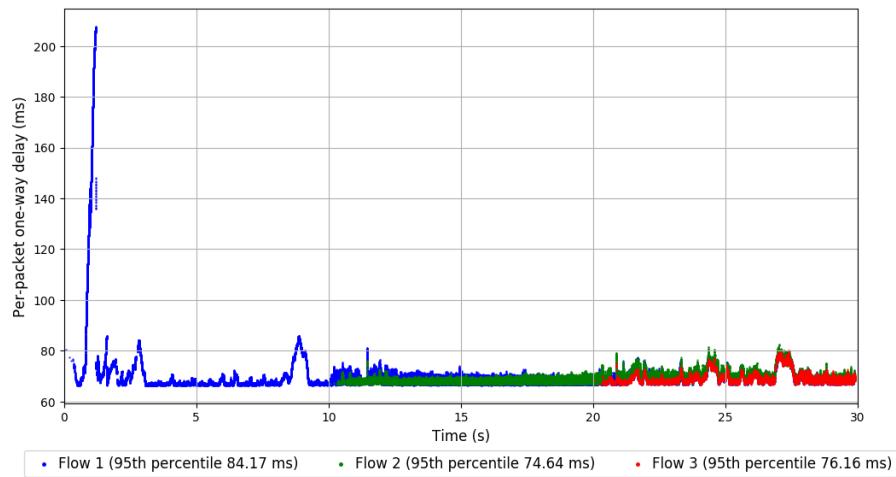
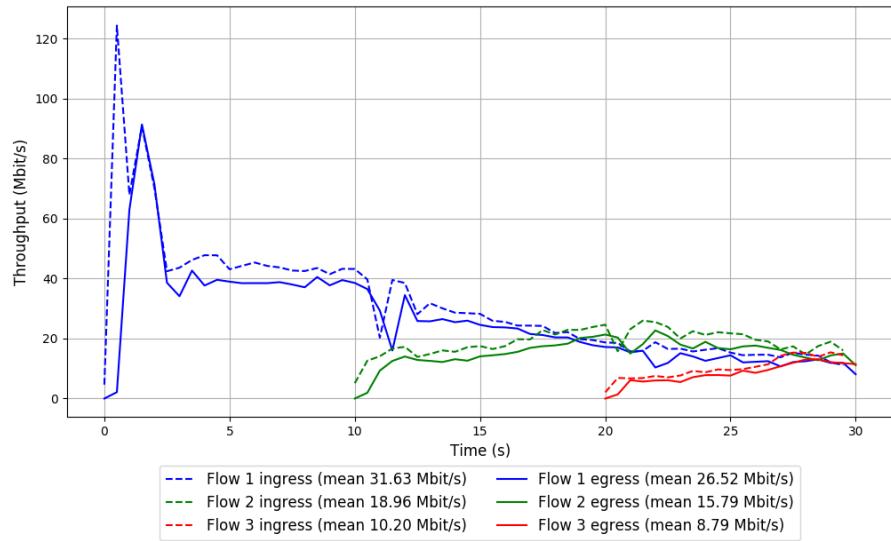


Run 3: Statistics of FillP-Sheep

```
Start at: 2018-12-20 08:48:27
End at: 2018-12-20 08:48:57
Local clock offset: 20.495 ms
Remote clock offset: 54.538 ms

# Below is generated by plot.py at 2018-12-20 10:08:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.90 Mbit/s
95th percentile per-packet one-way delay: 78.940 ms
Loss rate: 16.54%
-- Flow 1:
Average throughput: 26.52 Mbit/s
95th percentile per-packet one-way delay: 84.169 ms
Loss rate: 16.51%
-- Flow 2:
Average throughput: 15.79 Mbit/s
95th percentile per-packet one-way delay: 74.641 ms
Loss rate: 17.14%
-- Flow 3:
Average throughput: 8.79 Mbit/s
95th percentile per-packet one-way delay: 76.157 ms
Loss rate: 14.58%
```

Run 3: Report of FillP-Sheep — Data Link

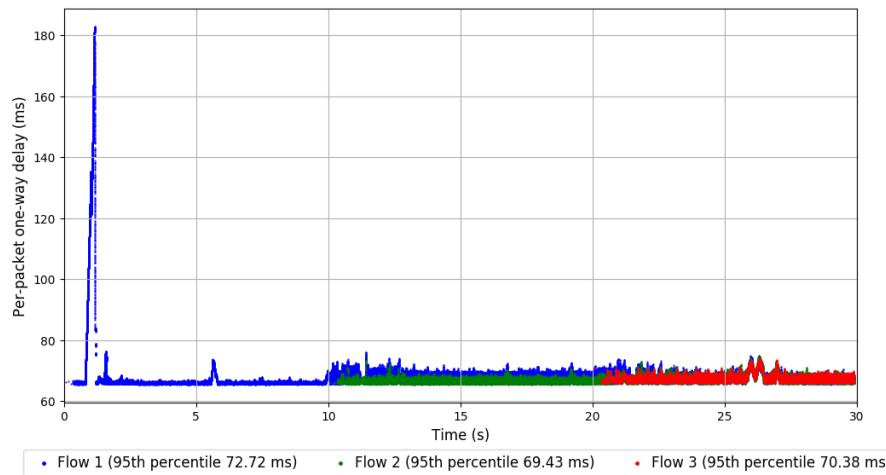
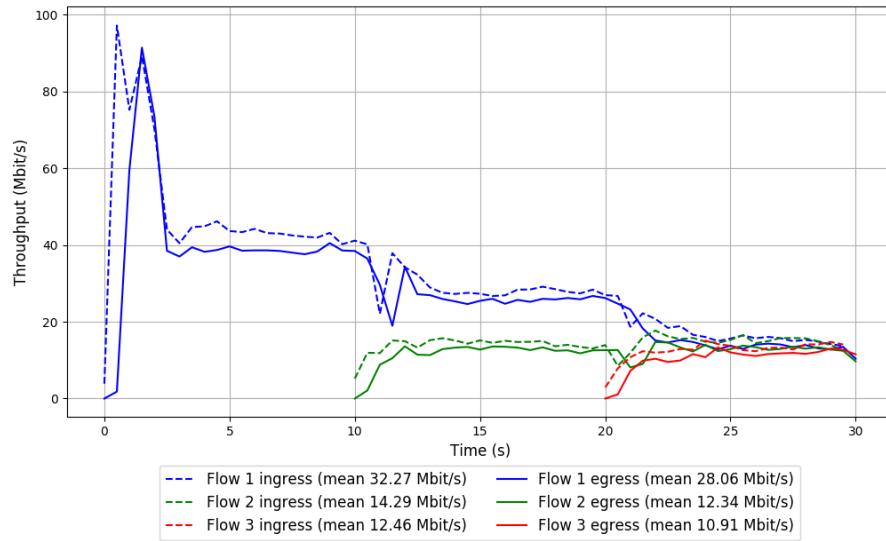


Run 4: Statistics of FillP-Sheep

```
Start at: 2018-12-20 09:12:19
End at: 2018-12-20 09:12:49
Local clock offset: 13.217 ms
Remote clock offset: 38.355 ms

# Below is generated by plot.py at 2018-12-20 10:08:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.85 Mbit/s
95th percentile per-packet one-way delay: 71.320 ms
Loss rate: 13.54%
-- Flow 1:
Average throughput: 28.06 Mbit/s
95th percentile per-packet one-way delay: 72.715 ms
Loss rate: 13.37%
-- Flow 2:
Average throughput: 12.34 Mbit/s
95th percentile per-packet one-way delay: 69.428 ms
Loss rate: 14.15%
-- Flow 3:
Average throughput: 10.91 Mbit/s
95th percentile per-packet one-way delay: 70.377 ms
Loss rate: 13.48%
```

Run 4: Report of FillP-Sheep — Data Link

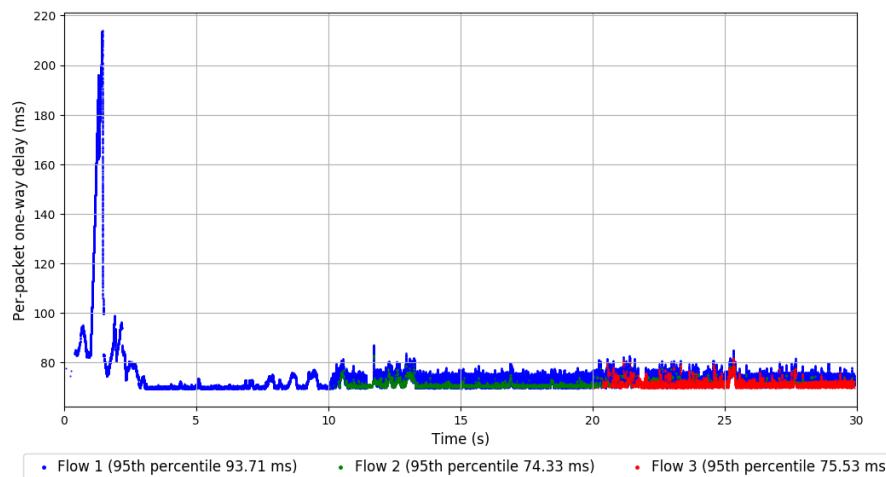
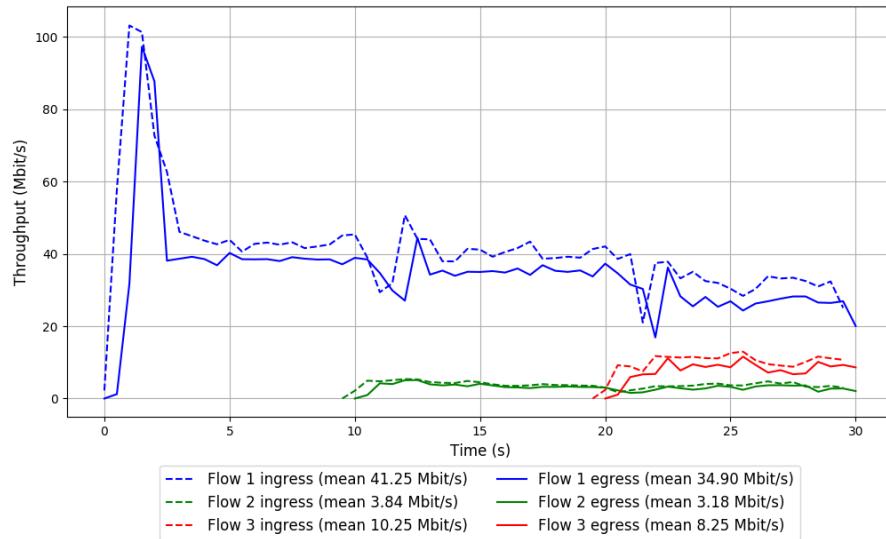


Run 5: Statistics of FillP-Sheep

```
Start at: 2018-12-20 09:36:29
End at: 2018-12-20 09:36:59
Local clock offset: 3.954 ms
Remote clock offset: 38.268 ms

# Below is generated by plot.py at 2018-12-20 10:08:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.73 Mbit/s
95th percentile per-packet one-way delay: 90.233 ms
Loss rate: 16.16%
-- Flow 1:
Average throughput: 34.90 Mbit/s
95th percentile per-packet one-way delay: 93.712 ms
Loss rate: 15.72%
-- Flow 2:
Average throughput: 3.18 Mbit/s
95th percentile per-packet one-way delay: 74.329 ms
Loss rate: 17.60%
-- Flow 3:
Average throughput: 8.25 Mbit/s
95th percentile per-packet one-way delay: 75.525 ms
Loss rate: 20.35%
```

Run 5: Report of FillP-Sheep — Data Link

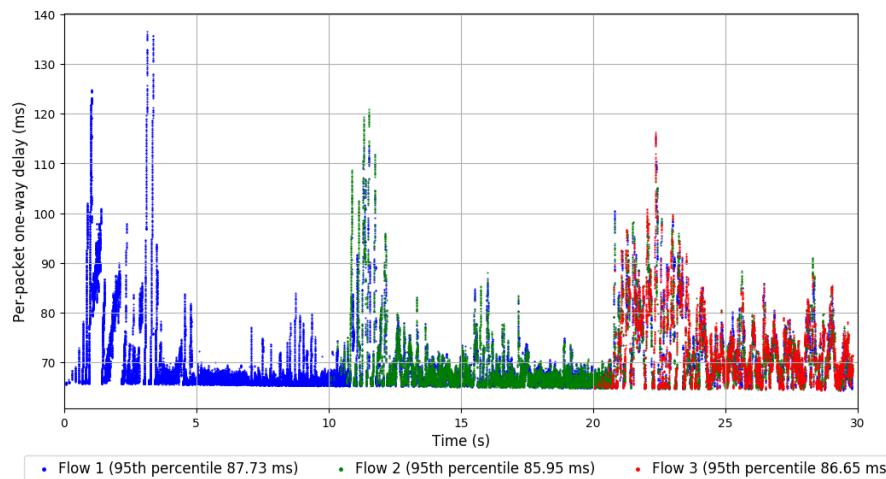
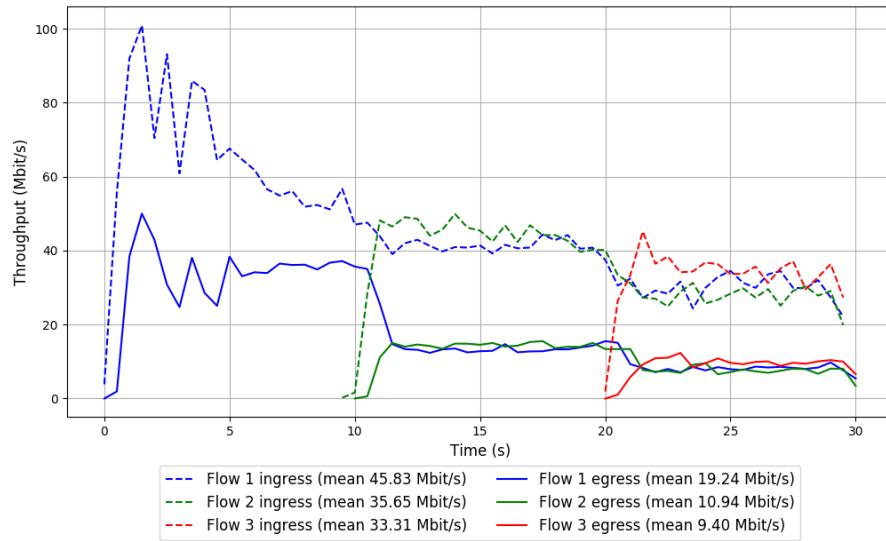


Run 1: Statistics of Indigo

```
Start at: 2018-12-20 08:05:41
End at: 2018-12-20 08:06:11
Local clock offset: 2.893 ms
Remote clock offset: -17.899 ms

# Below is generated by plot.py at 2018-12-20 10:08:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 29.57 Mbit/s
95th percentile per-packet one-way delay: 87.131 ms
Loss rate: 63.42%
-- Flow 1:
Average throughput: 19.24 Mbit/s
95th percentile per-packet one-way delay: 87.729 ms
Loss rate: 58.18%
-- Flow 2:
Average throughput: 10.94 Mbit/s
95th percentile per-packet one-way delay: 85.946 ms
Loss rate: 69.50%
-- Flow 3:
Average throughput: 9.40 Mbit/s
95th percentile per-packet one-way delay: 86.646 ms
Loss rate: 72.11%
```

Run 1: Report of Indigo — Data Link

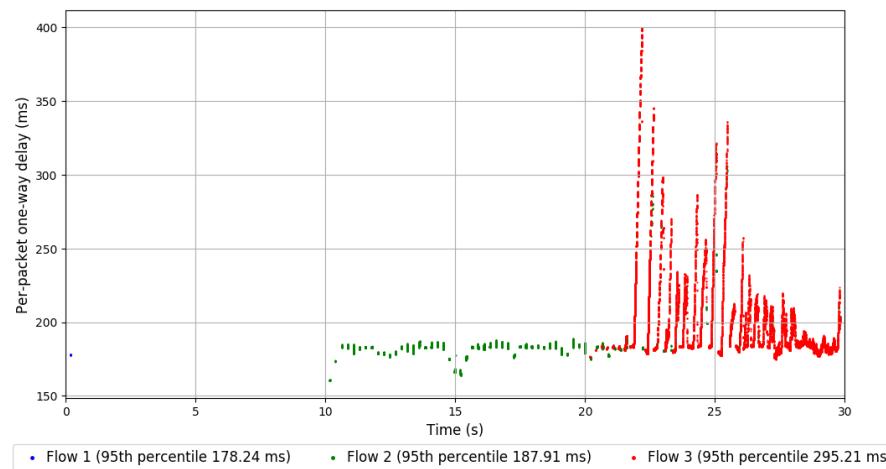
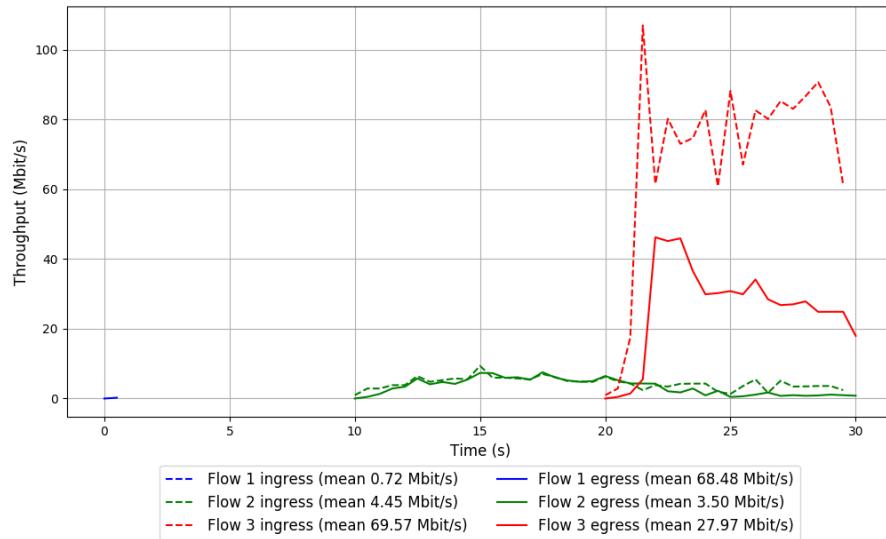


Run 2: Statistics of Indigo

```
Start at: 2018-12-20 08:30:04
End at: 2018-12-20 08:30:34
Local clock offset: 17.456 ms
Remote clock offset: 16.997 ms

# Below is generated by plot.py at 2018-12-20 10:08:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.42 Mbit/s
95th percentile per-packet one-way delay: 285.217 ms
Loss rate: 56.24%
-- Flow 1:
Average throughput: 68.48 Mbit/s
95th percentile per-packet one-way delay: 178.244 ms
Loss rate: 28.74%
-- Flow 2:
Average throughput: 3.50 Mbit/s
95th percentile per-packet one-way delay: 187.913 ms
Loss rate: 21.90%
-- Flow 3:
Average throughput: 27.97 Mbit/s
95th percentile per-packet one-way delay: 295.208 ms
Loss rate: 60.67%
```

Run 2: Report of Indigo — Data Link

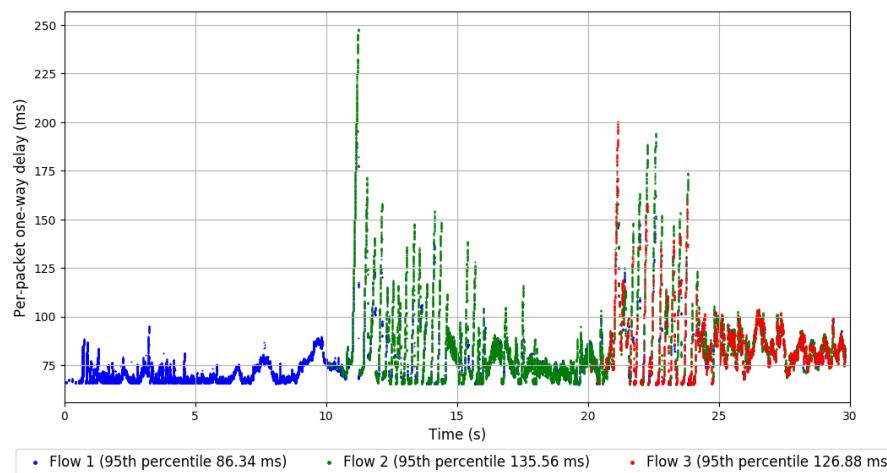
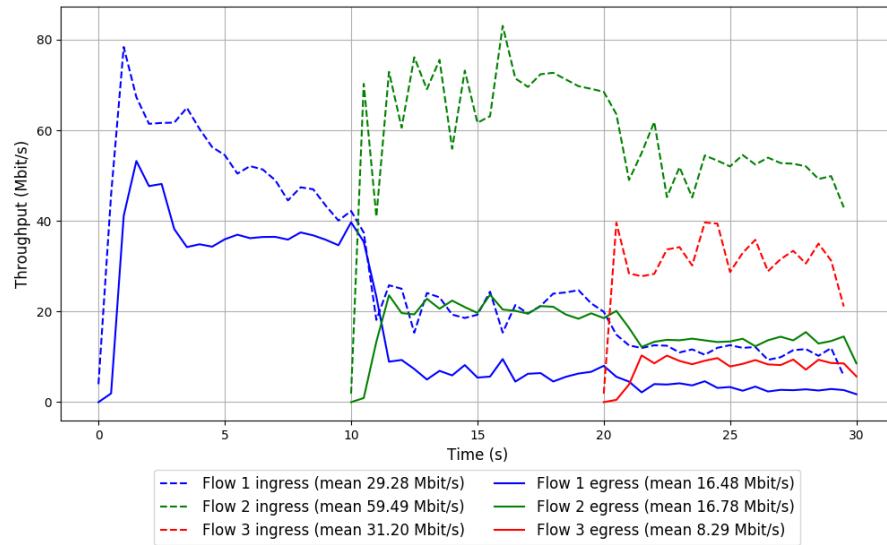


Run 3: Statistics of Indigo

```
Start at: 2018-12-20 08:59:44
End at: 2018-12-20 09:00:14
Local clock offset: 21.948 ms
Remote clock offset: 52.61 ms

# Below is generated by plot.py at 2018-12-20 10:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.31 Mbit/s
95th percentile per-packet one-way delay: 111.034 ms
Loss rate: 61.76%
-- Flow 1:
Average throughput: 16.48 Mbit/s
95th percentile per-packet one-way delay: 86.339 ms
Loss rate: 43.74%
-- Flow 2:
Average throughput: 16.78 Mbit/s
95th percentile per-packet one-way delay: 135.557 ms
Loss rate: 71.96%
-- Flow 3:
Average throughput: 8.29 Mbit/s
95th percentile per-packet one-way delay: 126.879 ms
Loss rate: 73.74%
```

Run 3: Report of Indigo — Data Link

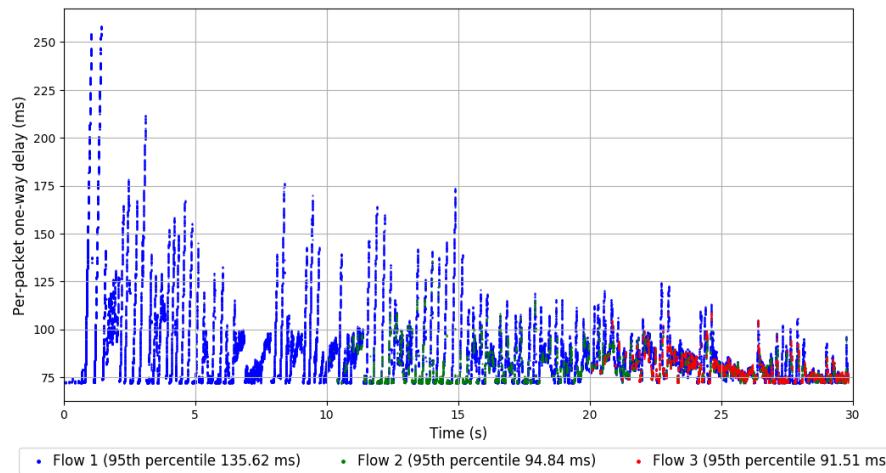
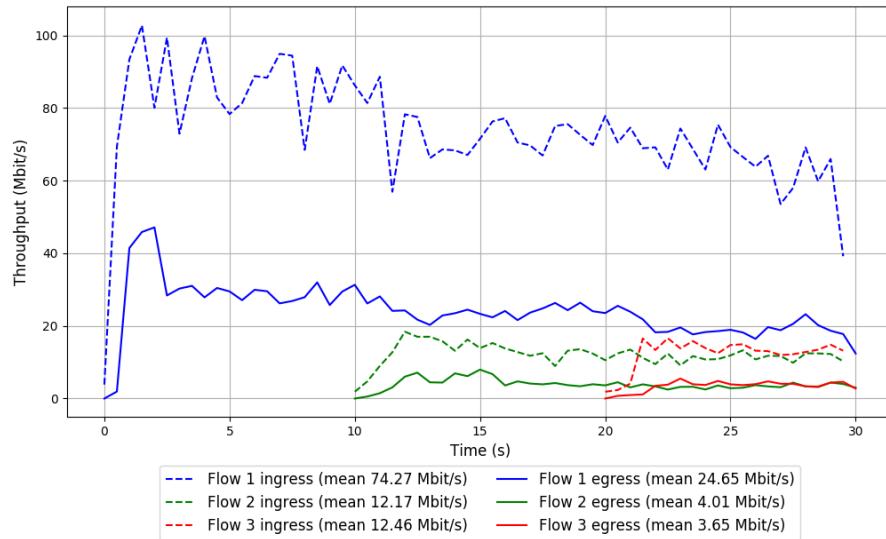


Run 4: Statistics of Indigo

```
Start at: 2018-12-20 09:23:32
End at: 2018-12-20 09:24:02
Local clock offset: 6.206 ms
Remote clock offset: 27.354 ms

# Below is generated by plot.py at 2018-12-20 10:08:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.50 Mbit/s
95th percentile per-packet one-way delay: 130.848 ms
Loss rate: 67.14%
-- Flow 1:
Average throughput: 24.65 Mbit/s
95th percentile per-packet one-way delay: 135.616 ms
Loss rate: 66.92%
-- Flow 2:
Average throughput: 4.01 Mbit/s
95th percentile per-packet one-way delay: 94.839 ms
Loss rate: 67.22%
-- Flow 3:
Average throughput: 3.65 Mbit/s
95th percentile per-packet one-way delay: 91.512 ms
Loss rate: 71.05%
```

Run 4: Report of Indigo — Data Link

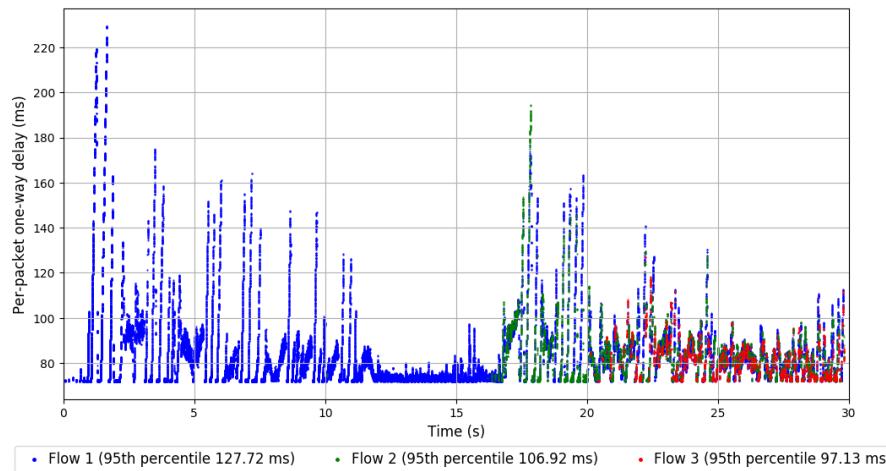
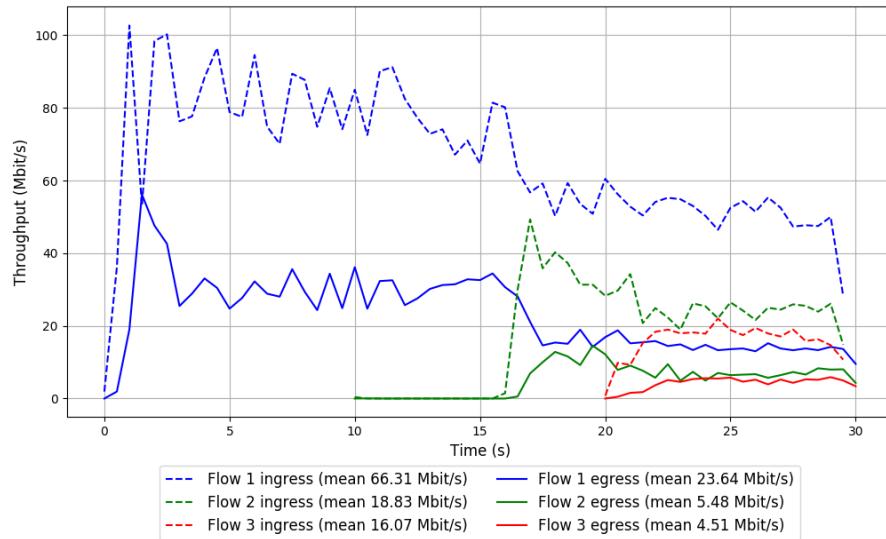


Run 5: Statistics of Indigo

```
Start at: 2018-12-20 09:56:23
End at: 2018-12-20 09:56:53
Local clock offset: 6.074 ms
Remote clock offset: 47.787 ms

# Below is generated by plot.py at 2018-12-20 10:08:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.73 Mbit/s
95th percentile per-packet one-way delay: 123.503 ms
Loss rate: 66.00%
-- Flow 1:
Average throughput: 23.64 Mbit/s
95th percentile per-packet one-way delay: 127.716 ms
Loss rate: 64.53%
-- Flow 2:
Average throughput: 5.48 Mbit/s
95th percentile per-packet one-way delay: 106.918 ms
Loss rate: 71.09%
-- Flow 3:
Average throughput: 4.51 Mbit/s
95th percentile per-packet one-way delay: 97.130 ms
Loss rate: 72.34%
```

Run 5: Report of Indigo — Data Link

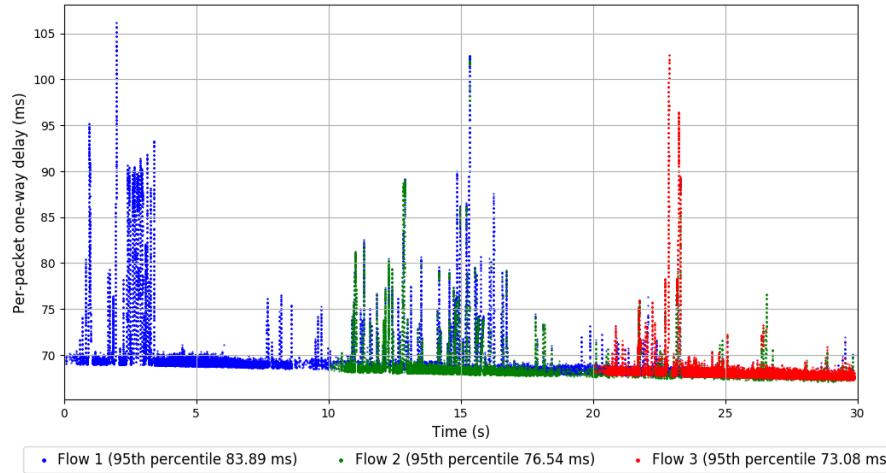
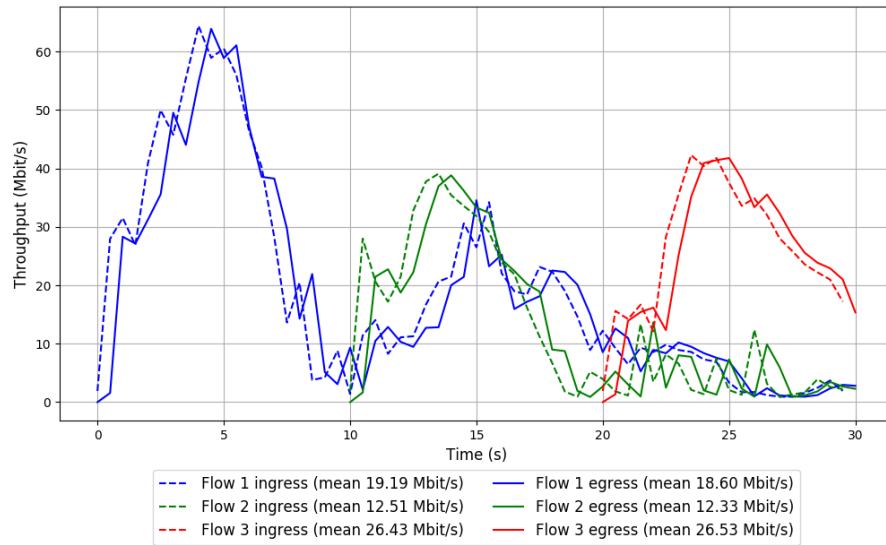


Run 1: Statistics of Indigo-MusesD

```
Start at: 2018-12-20 07:53:11
End at: 2018-12-20 07:53:41
Local clock offset: 2.897 ms
Remote clock offset: 8.602 ms

# Below is generated by plot.py at 2018-12-20 10:08:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.46 Mbit/s
95th percentile per-packet one-way delay: 80.123 ms
Loss rate: 2.56%
-- Flow 1:
Average throughput: 18.60 Mbit/s
95th percentile per-packet one-way delay: 83.888 ms
Loss rate: 3.56%
-- Flow 2:
Average throughput: 12.33 Mbit/s
95th percentile per-packet one-way delay: 76.536 ms
Loss rate: 2.06%
-- Flow 3:
Average throughput: 26.53 Mbit/s
95th percentile per-packet one-way delay: 73.077 ms
Loss rate: 0.85%
```

Run 1: Report of Indigo-MusesD — Data Link

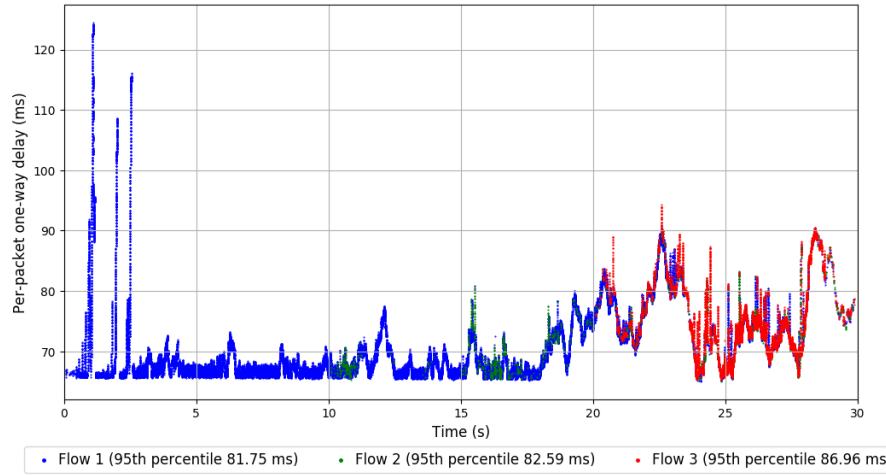
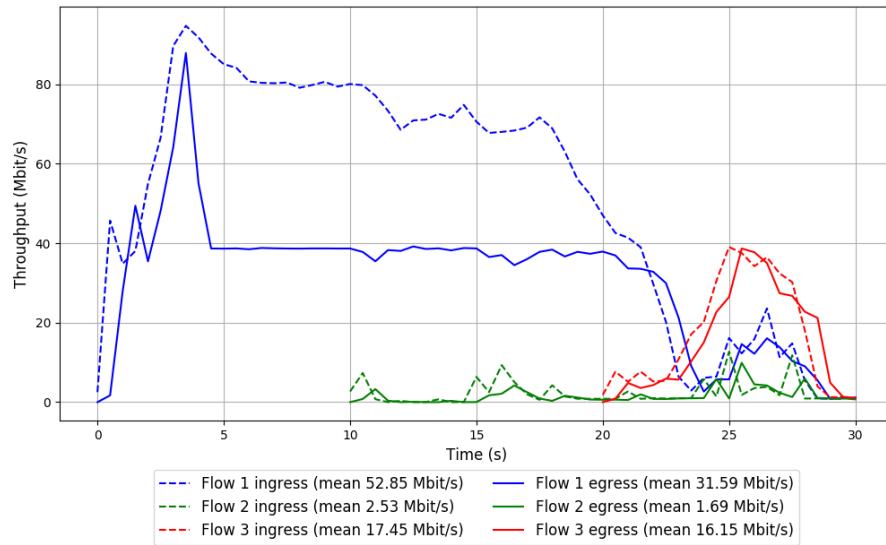


Run 2: Statistics of Indigo-MusesD

```
Start at: 2018-12-20 08:17:10
End at: 2018-12-20 08:17:40
Local clock offset: 13.343 ms
Remote clock offset: -32.347 ms

# Below is generated by plot.py at 2018-12-20 10:08:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.98 Mbit/s
95th percentile per-packet one-way delay: 82.779 ms
Loss rate: 37.14%
-- Flow 1:
Average throughput: 31.59 Mbit/s
95th percentile per-packet one-way delay: 81.753 ms
Loss rate: 40.40%
-- Flow 2:
Average throughput: 1.69 Mbit/s
95th percentile per-packet one-way delay: 82.591 ms
Loss rate: 33.38%
-- Flow 3:
Average throughput: 16.15 Mbit/s
95th percentile per-packet one-way delay: 86.964 ms
Loss rate: 8.51%
```

Run 2: Report of Indigo-MusesD — Data Link

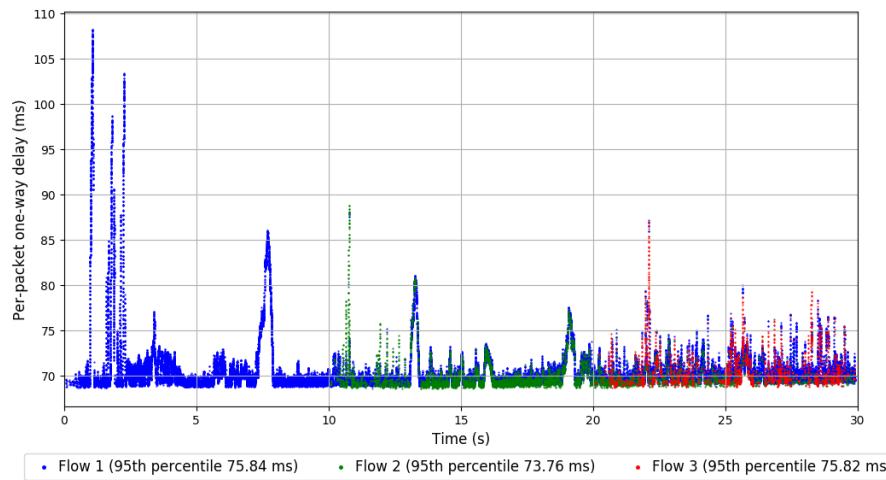
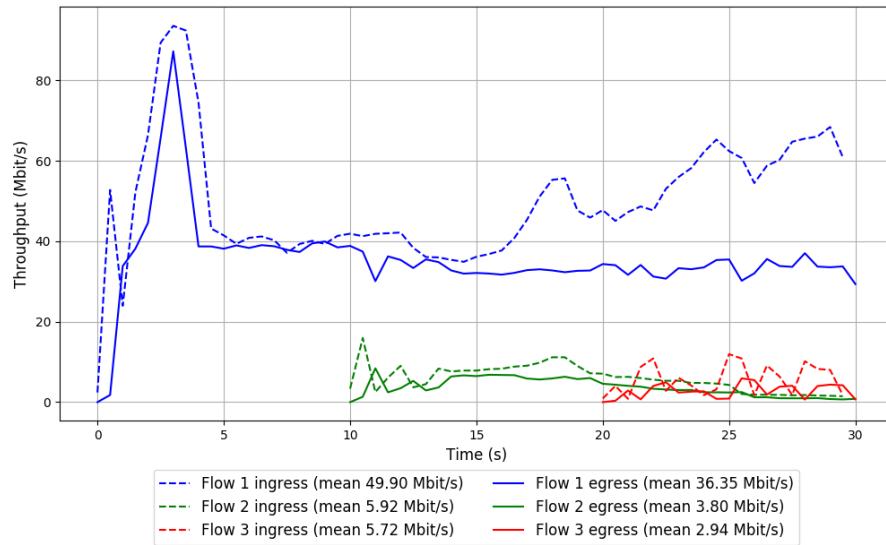


Run 3: Statistics of Indigo-MusesD

```
Start at: 2018-12-20 08:47:02
End at: 2018-12-20 08:47:32
Local clock offset: 19.911 ms
Remote clock offset: 50.905 ms

# Below is generated by plot.py at 2018-12-20 10:08:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.83 Mbit/s
95th percentile per-packet one-way delay: 75.702 ms
Loss rate: 28.77%
-- Flow 1:
Average throughput: 36.35 Mbit/s
95th percentile per-packet one-way delay: 75.840 ms
Loss rate: 27.40%
-- Flow 2:
Average throughput: 3.80 Mbit/s
95th percentile per-packet one-way delay: 73.757 ms
Loss rate: 36.13%
-- Flow 3:
Average throughput: 2.94 Mbit/s
95th percentile per-packet one-way delay: 75.823 ms
Loss rate: 49.38%
```

Run 3: Report of Indigo-MusesD — Data Link

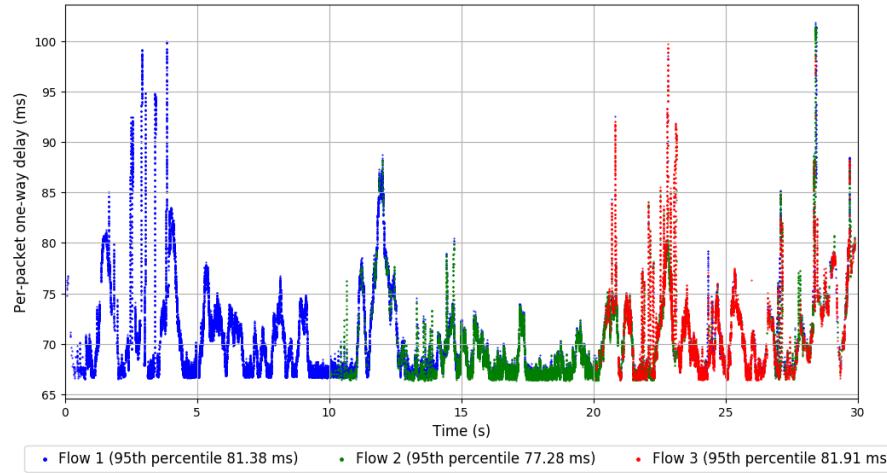
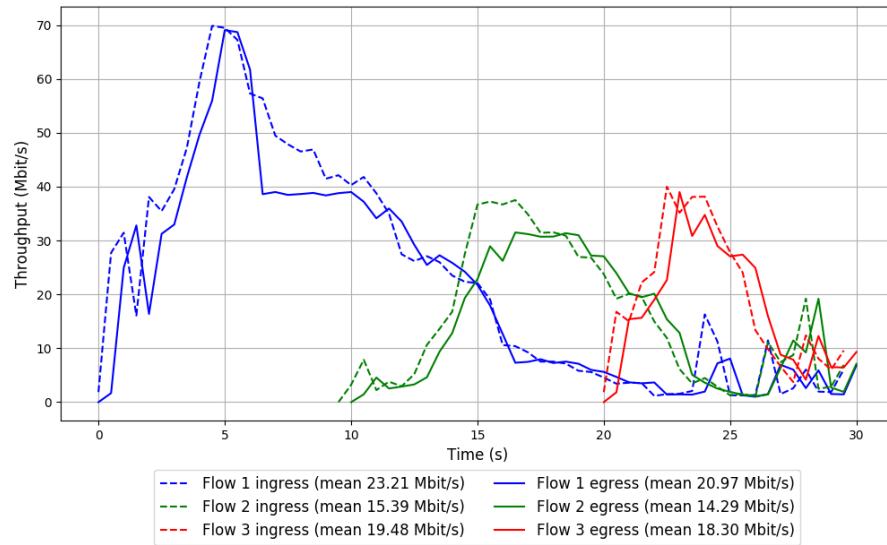


Run 4: Statistics of Indigo-MusesD

```
Start at: 2018-12-20 09:11:03
End at: 2018-12-20 09:11:33
Local clock offset: 14.102 ms
Remote clock offset: 38.17 ms

# Below is generated by plot.py at 2018-12-20 10:08:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.48 Mbit/s
95th percentile per-packet one-way delay: 80.614 ms
Loss rate: 8.91%
-- Flow 1:
Average throughput: 20.97 Mbit/s
95th percentile per-packet one-way delay: 81.382 ms
Loss rate: 10.02%
-- Flow 2:
Average throughput: 14.29 Mbit/s
95th percentile per-packet one-way delay: 77.282 ms
Loss rate: 7.63%
-- Flow 3:
Average throughput: 18.30 Mbit/s
95th percentile per-packet one-way delay: 81.907 ms
Loss rate: 6.93%
```

Run 4: Report of Indigo-MusesD — Data Link

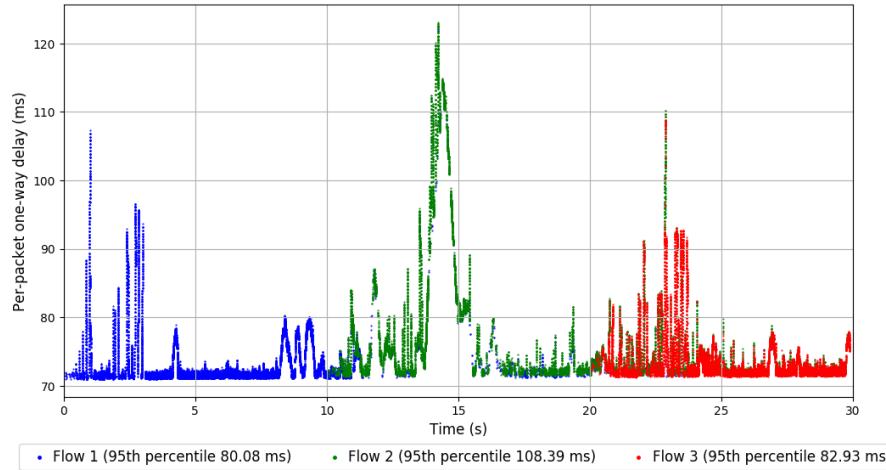
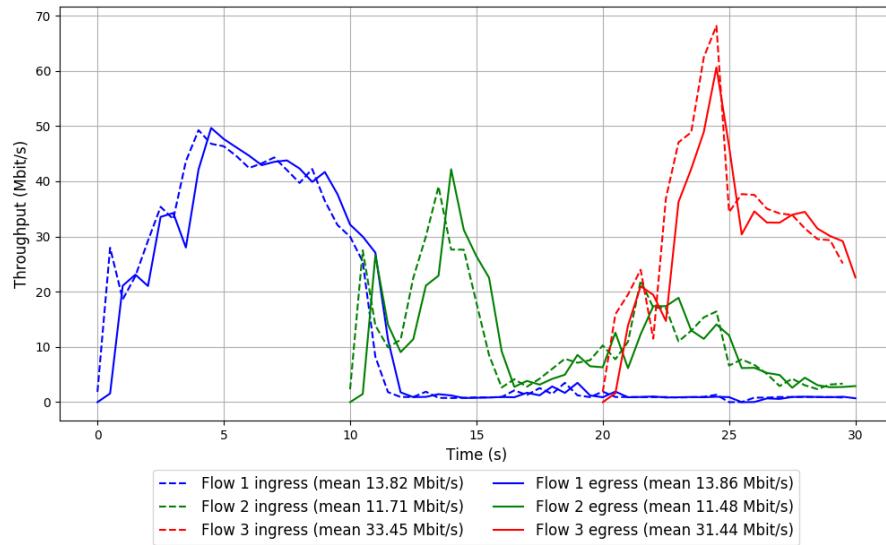


Run 5: Statistics of Indigo-MusesD

```
Start at: 2018-12-20 09:35:14
End at: 2018-12-20 09:35:44
Local clock offset: 3.279 ms
Remote clock offset: 35.122 ms

# Below is generated by plot.py at 2018-12-20 10:08:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.81 Mbit/s
95th percentile per-packet one-way delay: 89.755 ms
Loss rate: 3.13%
-- Flow 1:
Average throughput: 13.86 Mbit/s
95th percentile per-packet one-way delay: 80.084 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 11.48 Mbit/s
95th percentile per-packet one-way delay: 108.388 ms
Loss rate: 2.59%
-- Flow 3:
Average throughput: 31.44 Mbit/s
95th percentile per-packet one-way delay: 82.930 ms
Loss rate: 7.18%
```

Run 5: Report of Indigo-MusesD — Data Link

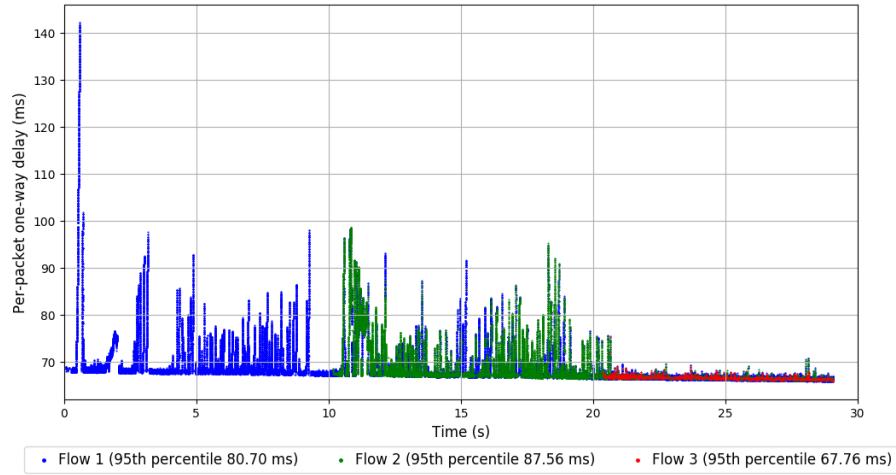
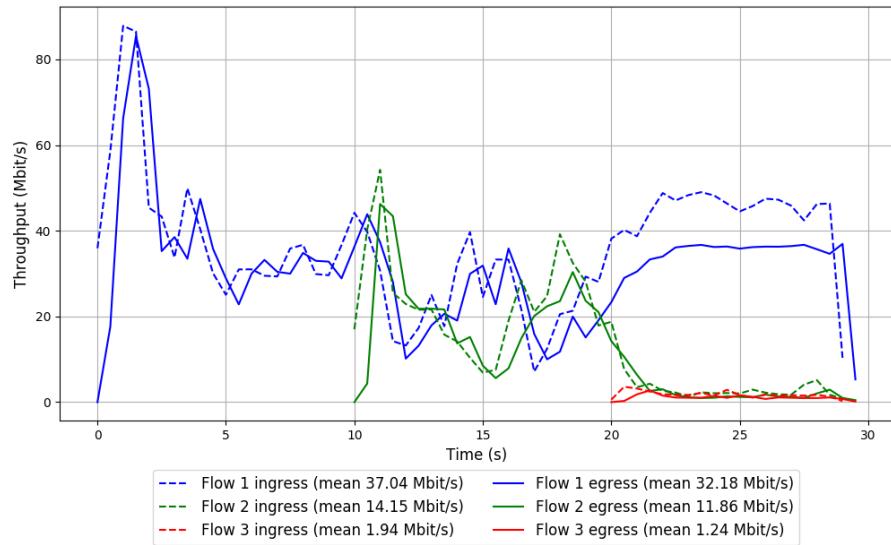


Run 1: Statistics of Indigo-MusesT

```
Start at: 2018-12-20 07:51:50
End at: 2018-12-20 07:52:20
Local clock offset: 3.446 ms
Remote clock offset: 15.268 ms

# Below is generated by plot.py at 2018-12-20 10:09:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.28 Mbit/s
95th percentile per-packet one-way delay: 82.045 ms
Loss rate: 14.40%
-- Flow 1:
Average throughput: 32.18 Mbit/s
95th percentile per-packet one-way delay: 80.697 ms
Loss rate: 13.47%
-- Flow 2:
Average throughput: 11.86 Mbit/s
95th percentile per-packet one-way delay: 87.559 ms
Loss rate: 16.69%
-- Flow 3:
Average throughput: 1.24 Mbit/s
95th percentile per-packet one-way delay: 67.756 ms
Loss rate: 36.87%
```

Run 1: Report of Indigo-MusesT — Data Link

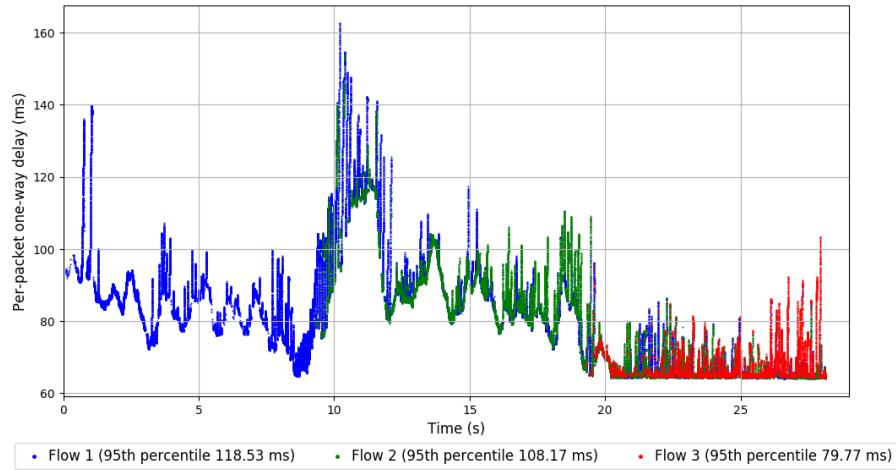
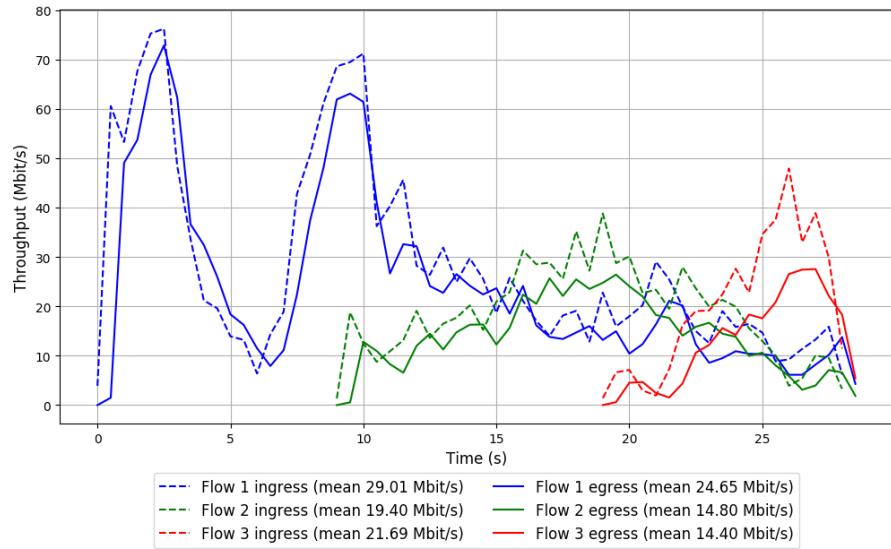


Run 2: Statistics of Indigo-MusesT

```
Start at: 2018-12-20 08:15:55
End at: 2018-12-20 08:16:25
Local clock offset: 12.564 ms
Remote clock offset: -30.33 ms

# Below is generated by plot.py at 2018-12-20 10:09:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.12 Mbit/s
95th percentile per-packet one-way delay: 115.828 ms
Loss rate: 20.44%
-- Flow 1:
Average throughput: 24.65 Mbit/s
95th percentile per-packet one-way delay: 118.534 ms
Loss rate: 15.46%
-- Flow 2:
Average throughput: 14.80 Mbit/s
95th percentile per-packet one-way delay: 108.175 ms
Loss rate: 24.21%
-- Flow 3:
Average throughput: 14.40 Mbit/s
95th percentile per-packet one-way delay: 79.772 ms
Loss rate: 34.28%
```

Run 2: Report of Indigo-MusesT — Data Link

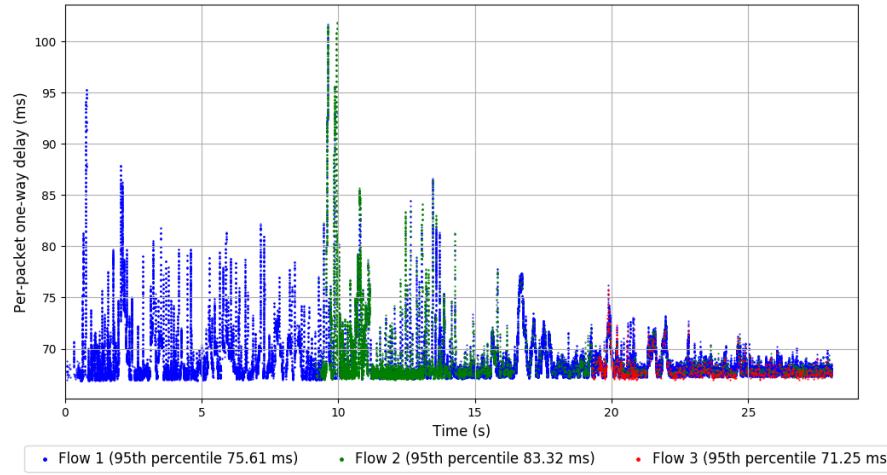
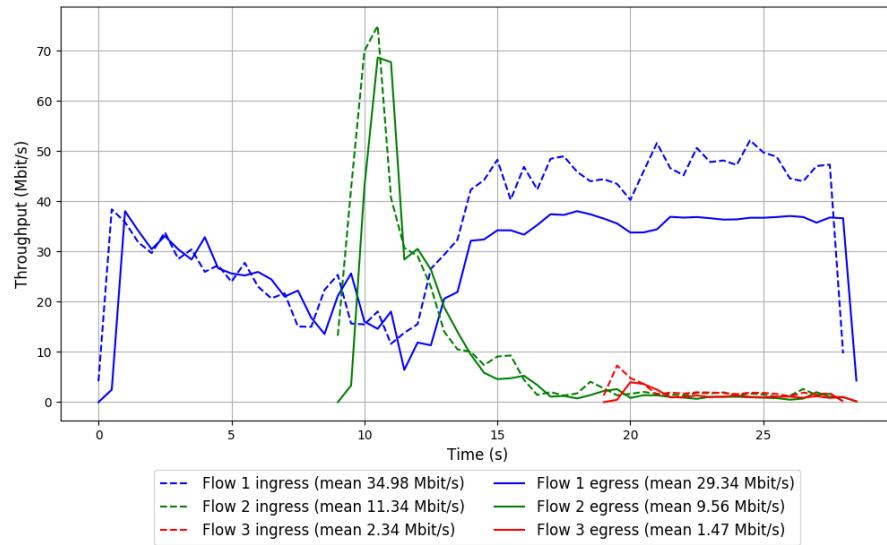


Run 3: Statistics of Indigo-MusesT

```
Start at: 2018-12-20 08:45:47
End at: 2018-12-20 08:46:17
Local clock offset: 20.038 ms
Remote clock offset: 51.904 ms

# Below is generated by plot.py at 2018-12-20 10:09:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.24 Mbit/s
95th percentile per-packet one-way delay: 76.559 ms
Loss rate: 16.75%
-- Flow 1:
Average throughput: 29.34 Mbit/s
95th percentile per-packet one-way delay: 75.614 ms
Loss rate: 16.43%
-- Flow 2:
Average throughput: 9.56 Mbit/s
95th percentile per-packet one-way delay: 83.322 ms
Loss rate: 16.15%
-- Flow 3:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: 71.252 ms
Loss rate: 38.10%
```

Run 3: Report of Indigo-MusesT — Data Link

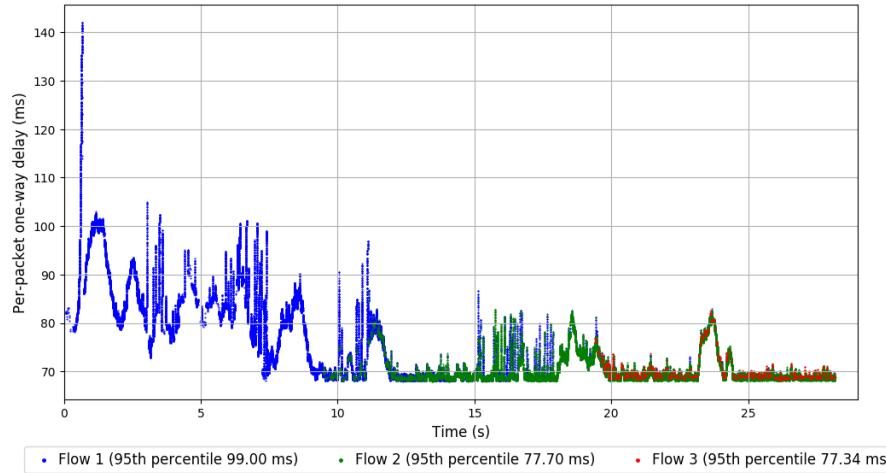
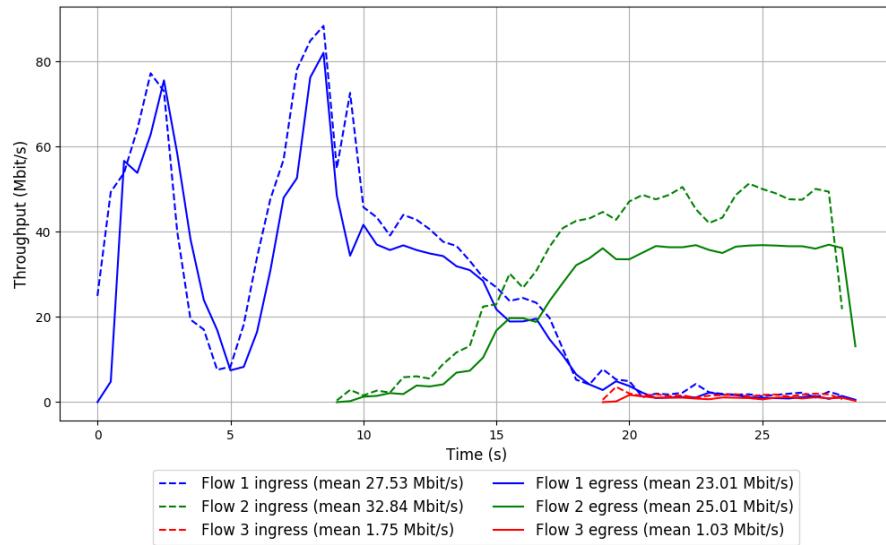


Run 4: Statistics of Indigo-MusesT

```
Start at: 2018-12-20 09:09:48
End at: 2018-12-20 09:10:18
Local clock offset: 15.839 ms
Remote clock offset: 37.824 ms

# Below is generated by plot.py at 2018-12-20 10:09:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.97 Mbit/s
95th percentile per-packet one-way delay: 93.970 ms
Loss rate: 20.34%
-- Flow 1:
Average throughput: 23.01 Mbit/s
95th percentile per-packet one-way delay: 98.996 ms
Loss rate: 16.78%
-- Flow 2:
Average throughput: 25.01 Mbit/s
95th percentile per-packet one-way delay: 77.705 ms
Loss rate: 24.28%
-- Flow 3:
Average throughput: 1.03 Mbit/s
95th percentile per-packet one-way delay: 77.342 ms
Loss rate: 41.75%
```

Run 4: Report of Indigo-MusesT — Data Link

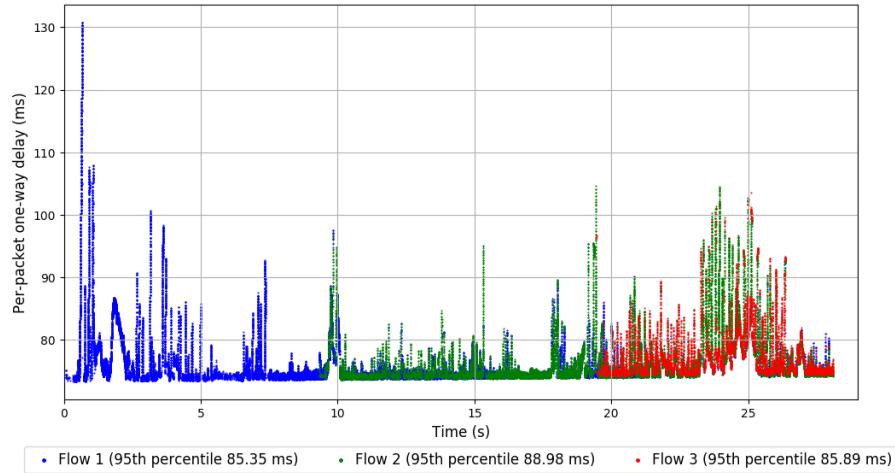
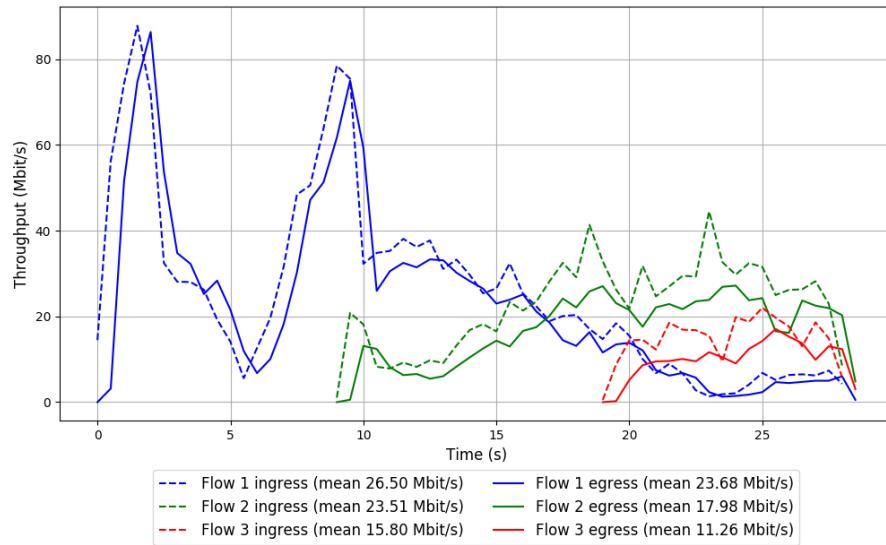


Run 5: Statistics of Indigo-MusesT

```
Start at: 2018-12-20 09:33:57
End at: 2018-12-20 09:34:27
Local clock offset: 3.22 ms
Remote clock offset: 30.717 ms

# Below is generated by plot.py at 2018-12-20 10:09:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.20 Mbit/s
95th percentile per-packet one-way delay: 86.257 ms
Loss rate: 17.33%
-- Flow 1:
Average throughput: 23.68 Mbit/s
95th percentile per-packet one-way delay: 85.347 ms
Loss rate: 11.04%
-- Flow 2:
Average throughput: 17.98 Mbit/s
95th percentile per-packet one-way delay: 88.979 ms
Loss rate: 23.98%
-- Flow 3:
Average throughput: 11.26 Mbit/s
95th percentile per-packet one-way delay: 85.886 ms
Loss rate: 29.85%
```

Run 5: Report of Indigo-MusesT — Data Link

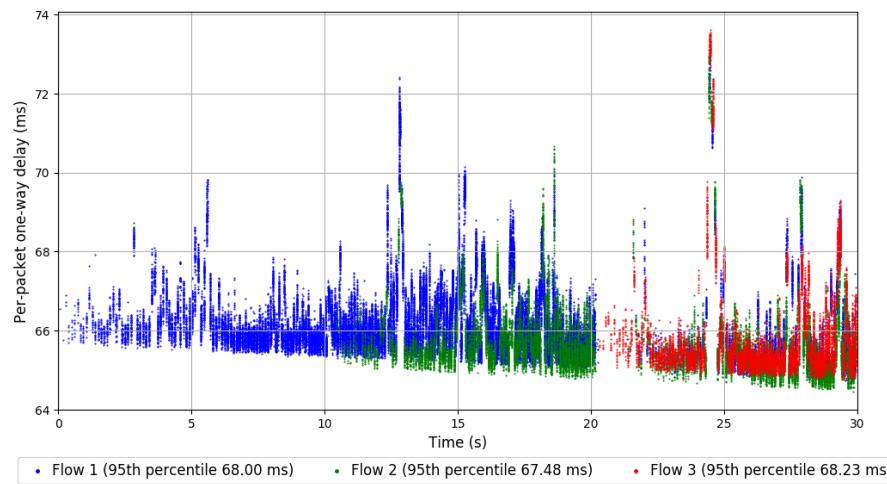
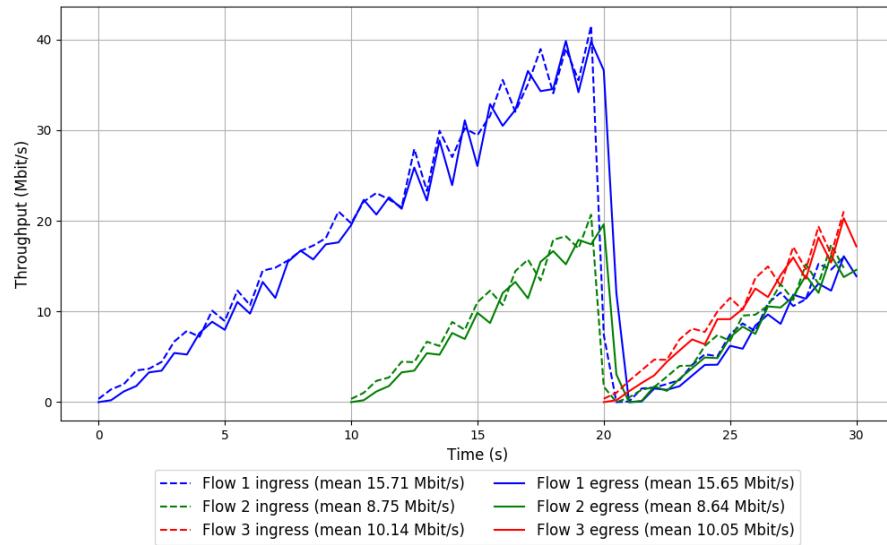


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2018-12-20 08:01:54
End at: 2018-12-20 08:02:24
Local clock offset: 2.742 ms
Remote clock offset: -10.565 ms

# Below is generated by plot.py at 2018-12-20 10:09:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.66 Mbit/s
95th percentile per-packet one-way delay: 67.969 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 15.65 Mbit/s
95th percentile per-packet one-way delay: 67.996 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 8.64 Mbit/s
95th percentile per-packet one-way delay: 67.484 ms
Loss rate: 1.77%
-- Flow 3:
Average throughput: 10.05 Mbit/s
95th percentile per-packet one-way delay: 68.228 ms
Loss rate: 1.93%
```

Run 1: Report of LEDBAT — Data Link

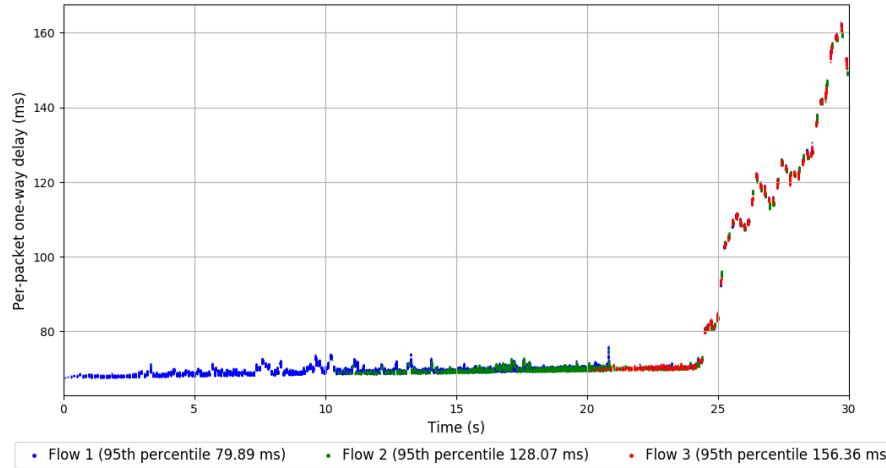
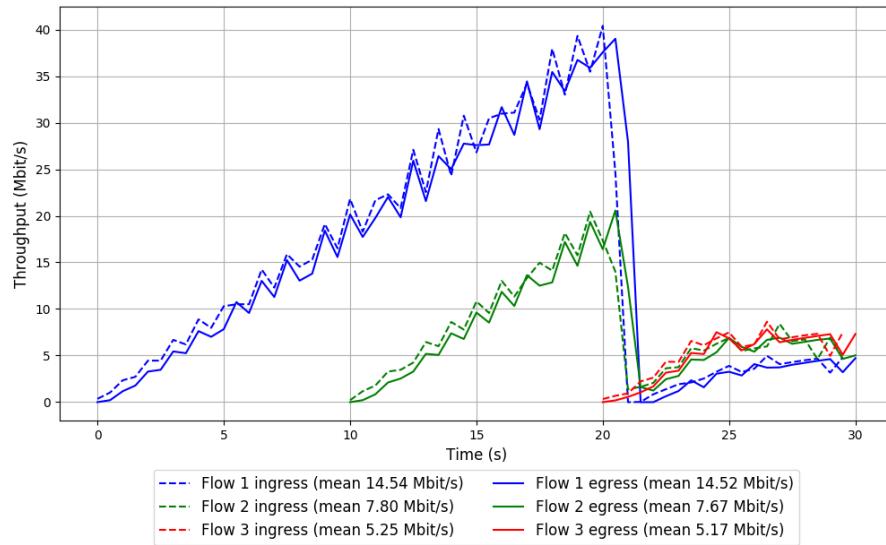


Run 2: Statistics of LEDBAT

```
Start at: 2018-12-20 08:25:59
End at: 2018-12-20 08:26:29
Local clock offset: 16.567 ms
Remote clock offset: -6.491 ms

# Below is generated by plot.py at 2018-12-20 10:09:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.29 Mbit/s
95th percentile per-packet one-way delay: 125.074 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 14.52 Mbit/s
95th percentile per-packet one-way delay: 79.887 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 7.67 Mbit/s
95th percentile per-packet one-way delay: 128.068 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 5.17 Mbit/s
95th percentile per-packet one-way delay: 156.364 ms
Loss rate: 2.55%
```

Run 2: Report of LEDBAT — Data Link

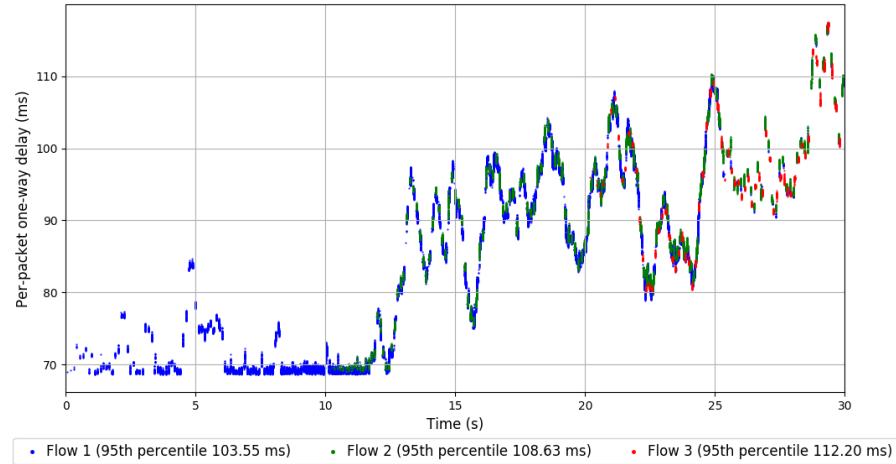
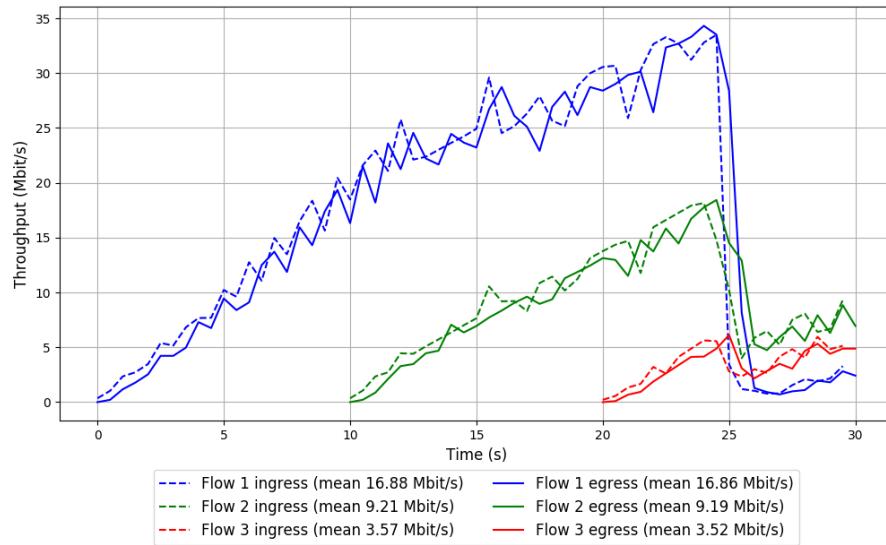


Run 3: Statistics of LEDBAT

```
Start at: 2018-12-20 08:55:55
End at: 2018-12-20 08:56:25
Local clock offset: 21.932 ms
Remote clock offset: 58.045 ms

# Below is generated by plot.py at 2018-12-20 10:09:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.08 Mbit/s
95th percentile per-packet one-way delay: 105.617 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 16.86 Mbit/s
95th percentile per-packet one-way delay: 103.554 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 9.19 Mbit/s
95th percentile per-packet one-way delay: 108.630 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 3.52 Mbit/s
95th percentile per-packet one-way delay: 112.205 ms
Loss rate: 2.73%
```

Run 3: Report of LEDBAT — Data Link

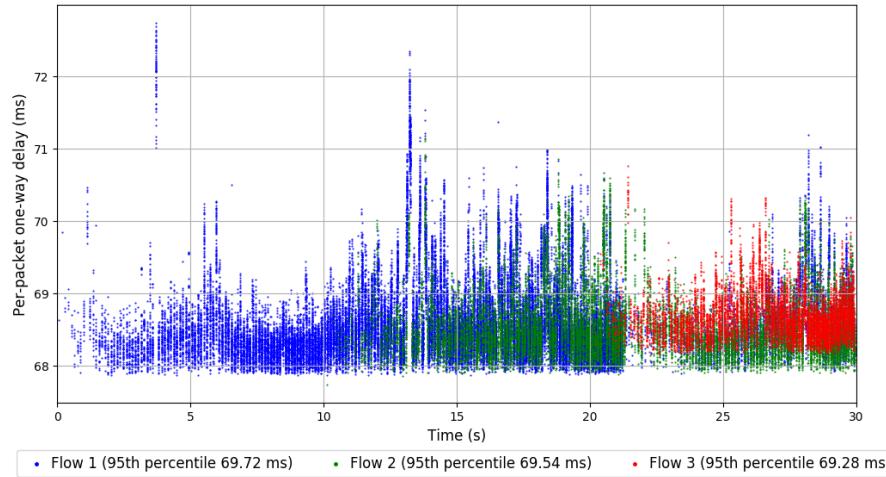
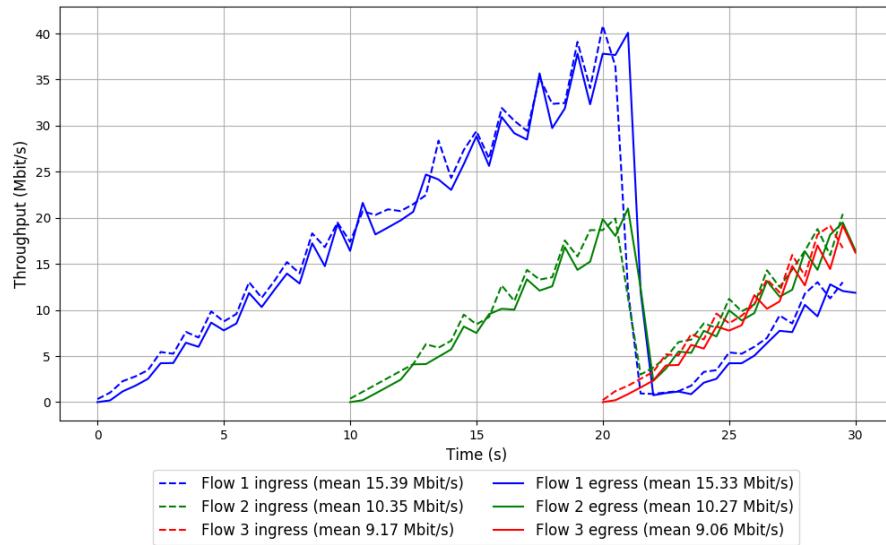


Run 4: Statistics of LEDBAT

```
Start at: 2018-12-20 09:19:44
End at: 2018-12-20 09:20:14
Local clock offset: 8.408 ms
Remote clock offset: 32.954 ms

# Below is generated by plot.py at 2018-12-20 10:09:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 25.10 Mbit/s
95th percentile per-packet one-way delay: 69.622 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 15.33 Mbit/s
95th percentile per-packet one-way delay: 69.717 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 10.27 Mbit/s
95th percentile per-packet one-way delay: 69.541 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 9.06 Mbit/s
95th percentile per-packet one-way delay: 69.276 ms
Loss rate: 2.31%
```

Run 4: Report of LEDBAT — Data Link

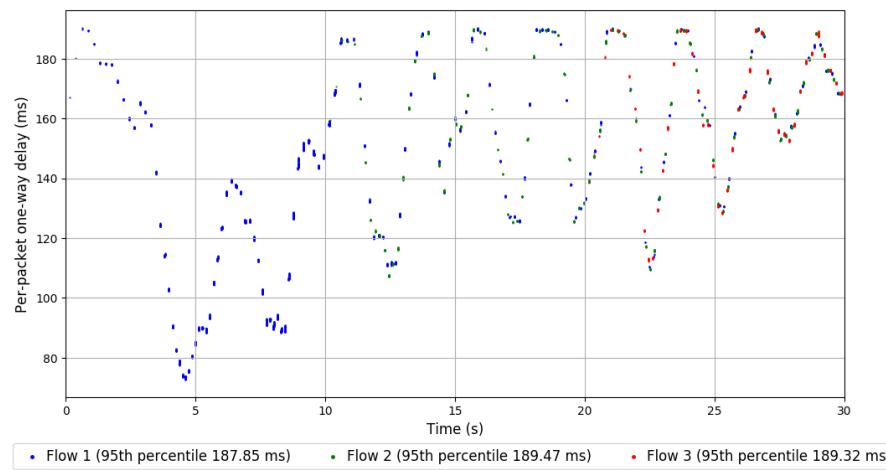
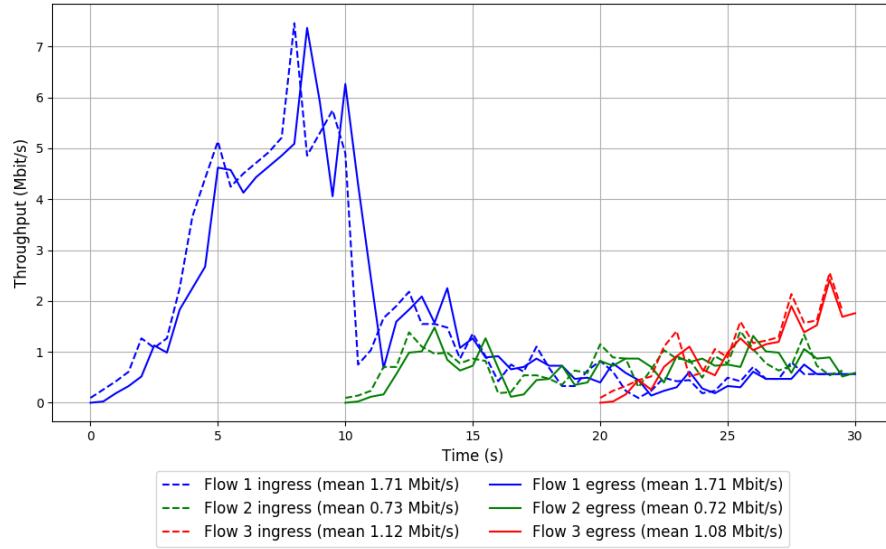


Run 5: Statistics of LEDBAT

```
Start at: 2018-12-20 09:48:33
End at: 2018-12-20 09:49:03
Local clock offset: 5.896 ms
Remote clock offset: 44.461 ms

# Below is generated by plot.py at 2018-12-20 10:09:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.53 Mbit/s
95th percentile per-packet one-way delay: 189.062 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 187.853 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 189.467 ms
Loss rate: 2.76%
-- Flow 3:
Average throughput: 1.08 Mbit/s
95th percentile per-packet one-way delay: 189.317 ms
Loss rate: 4.66%
```

Run 5: Report of LEDBAT — Data Link

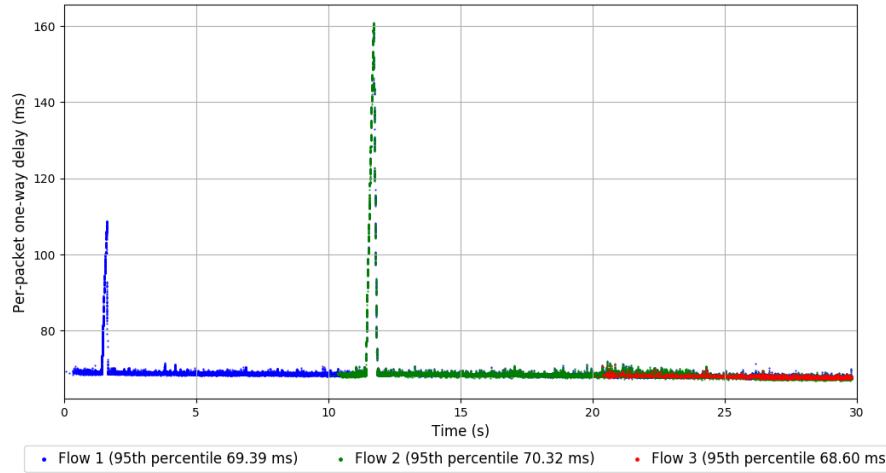
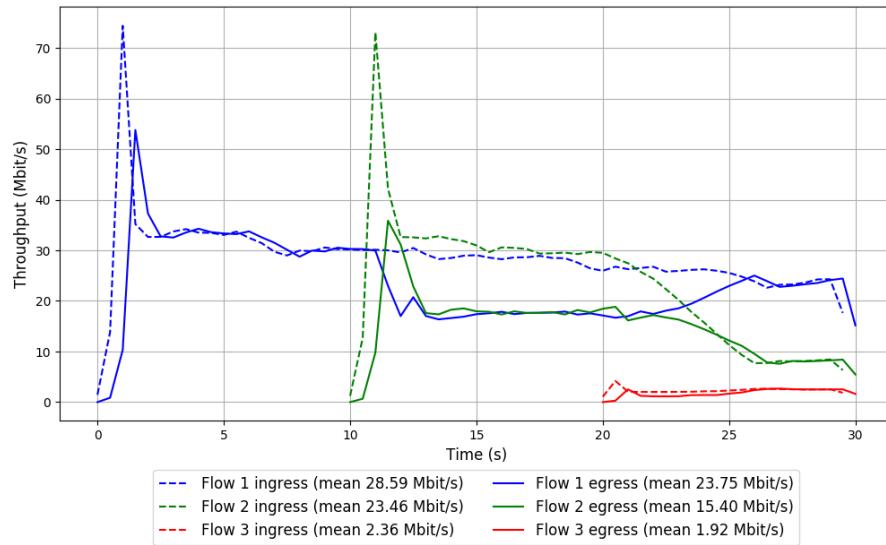


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2018-12-20 07:56:55
End at: 2018-12-20 07:57:25
Local clock offset: 3.139 ms
Remote clock offset: -2.246 ms

# Below is generated by plot.py at 2018-12-20 10:09:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 34.59 Mbit/s
95th percentile per-packet one-way delay: 69.506 ms
Loss rate: 23.38%
-- Flow 1:
Average throughput: 23.75 Mbit/s
95th percentile per-packet one-way delay: 69.385 ms
Loss rate: 17.29%
-- Flow 2:
Average throughput: 15.40 Mbit/s
95th percentile per-packet one-way delay: 70.318 ms
Loss rate: 34.74%
-- Flow 3:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 68.604 ms
Loss rate: 19.50%
```

Run 1: Report of PCC-Allegro — Data Link

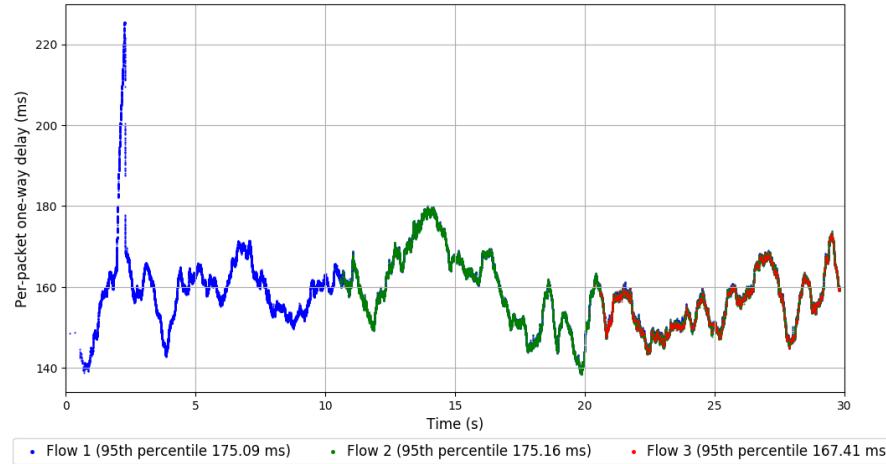
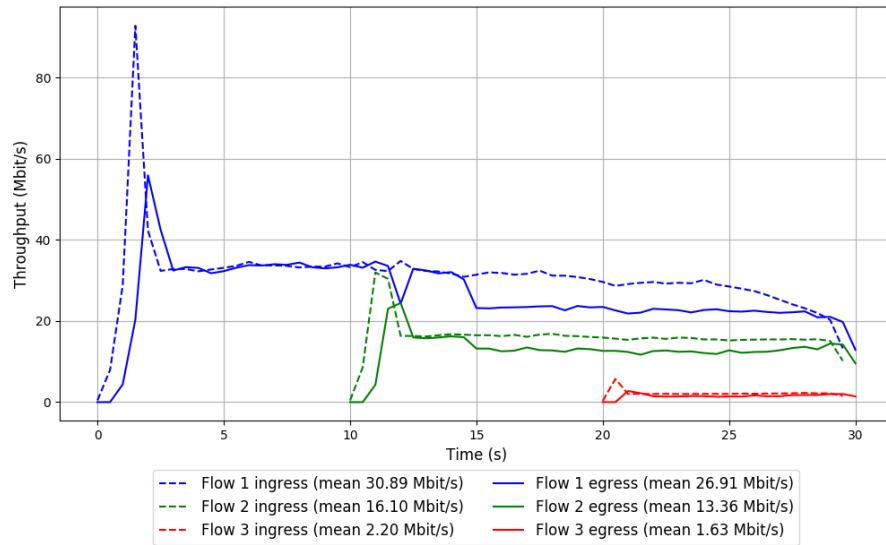


Run 2: Statistics of PCC-Allegro

```
Start at: 2018-12-20 08:20:56
End at: 2018-12-20 08:21:26
Local clock offset: 15.189 ms
Remote clock offset: -36.74 ms

# Below is generated by plot.py at 2018-12-20 10:09:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.29 Mbit/s
95th percentile per-packet one-way delay: 175.063 ms
Loss rate: 14.78%
-- Flow 1:
Average throughput: 26.91 Mbit/s
95th percentile per-packet one-way delay: 175.095 ms
Loss rate: 13.42%
-- Flow 2:
Average throughput: 13.36 Mbit/s
95th percentile per-packet one-way delay: 175.164 ms
Loss rate: 17.89%
-- Flow 3:
Average throughput: 1.63 Mbit/s
95th percentile per-packet one-way delay: 167.408 ms
Loss rate: 26.97%
```

Run 2: Report of PCC-Allegro — Data Link

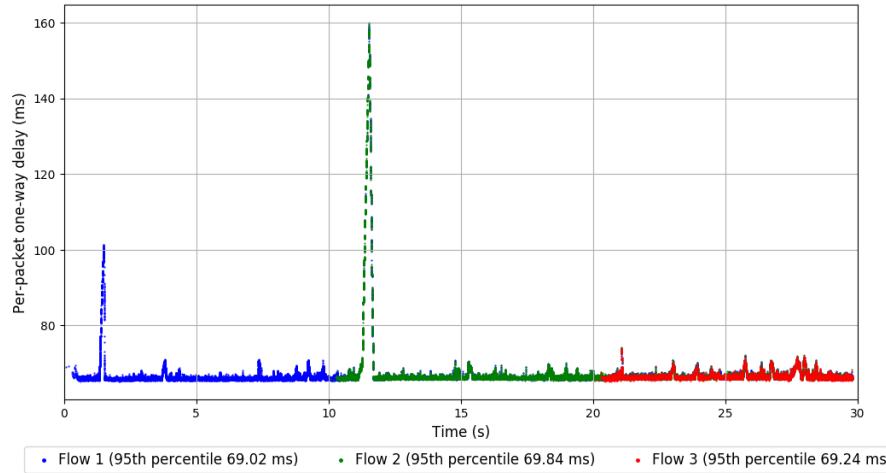
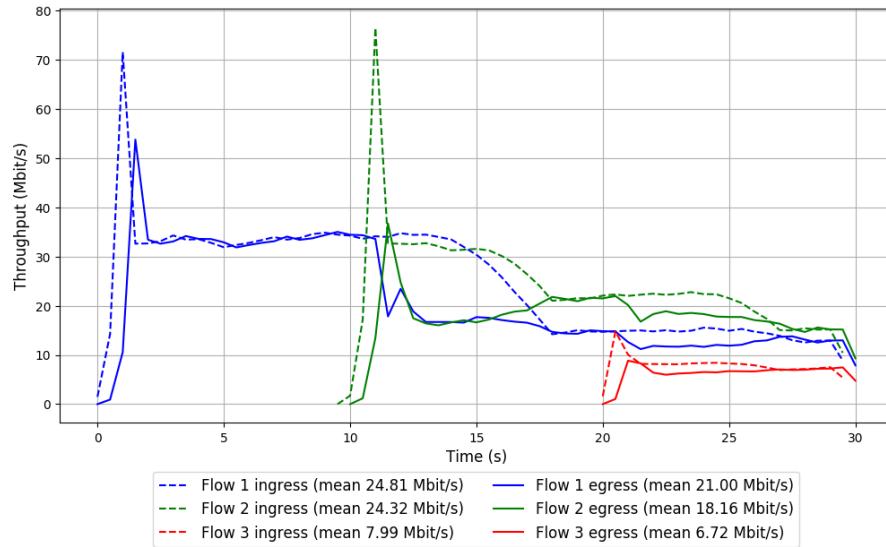


Run 3: Statistics of PCC-Allegro

```
Start at: 2018-12-20 08:50:57
End at: 2018-12-20 08:51:27
Local clock offset: 20.73 ms
Remote clock offset: 57.65 ms

# Below is generated by plot.py at 2018-12-20 10:09:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.25 Mbit/s
95th percentile per-packet one-way delay: 69.304 ms
Loss rate: 19.46%
-- Flow 1:
Average throughput: 21.00 Mbit/s
95th percentile per-packet one-way delay: 69.023 ms
Loss rate: 15.65%
-- Flow 2:
Average throughput: 18.16 Mbit/s
95th percentile per-packet one-way delay: 69.838 ms
Loss rate: 25.72%
-- Flow 3:
Average throughput: 6.72 Mbit/s
95th percentile per-packet one-way delay: 69.236 ms
Loss rate: 16.81%
```

Run 3: Report of PCC-Allegro — Data Link

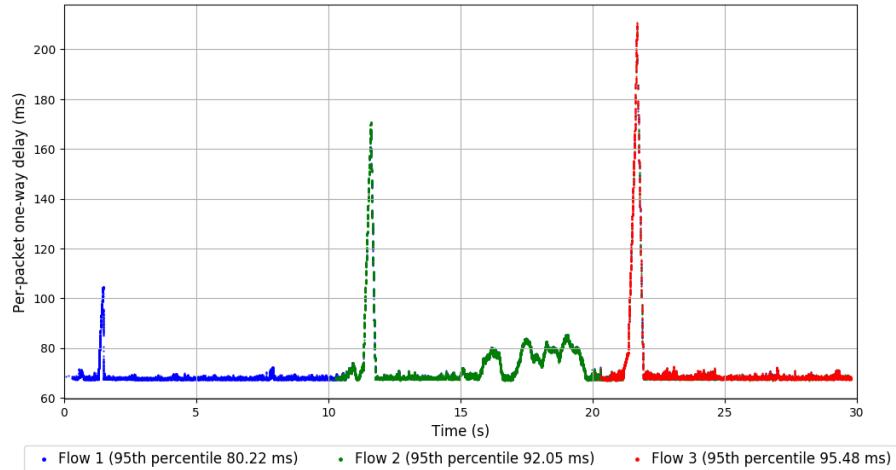
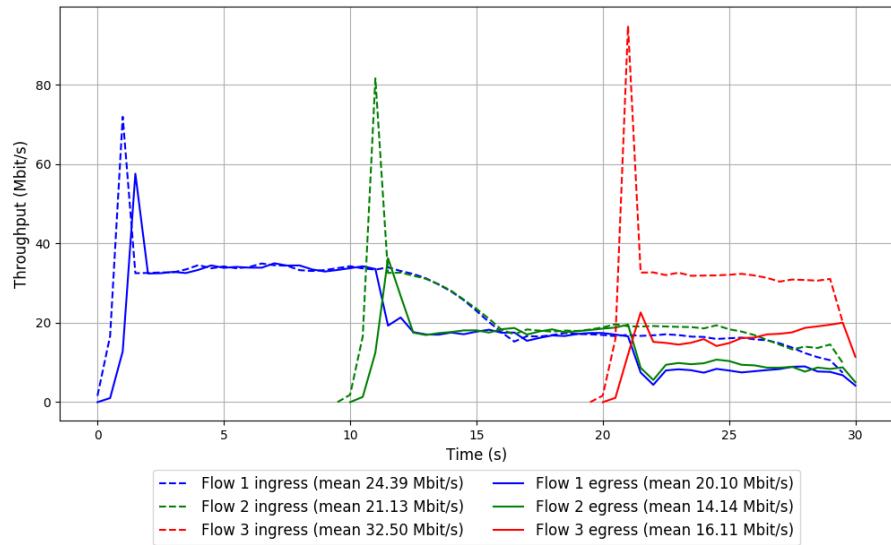


Run 4: Statistics of PCC-Allegro

```
Start at: 2018-12-20 09:14:47
End at: 2018-12-20 09:15:17
Local clock offset: 10.793 ms
Remote clock offset: 35.204 ms

# Below is generated by plot.py at 2018-12-20 10:09:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 34.77 Mbit/s
95th percentile per-packet one-way delay: 82.310 ms
Loss rate: 29.58%
-- Flow 1:
Average throughput: 20.10 Mbit/s
95th percentile per-packet one-way delay: 80.220 ms
Loss rate: 17.90%
-- Flow 2:
Average throughput: 14.14 Mbit/s
95th percentile per-packet one-way delay: 92.050 ms
Loss rate: 33.49%
-- Flow 3:
Average throughput: 16.11 Mbit/s
95th percentile per-packet one-way delay: 95.477 ms
Loss rate: 51.02%
```

Run 4: Report of PCC-Allegro — Data Link

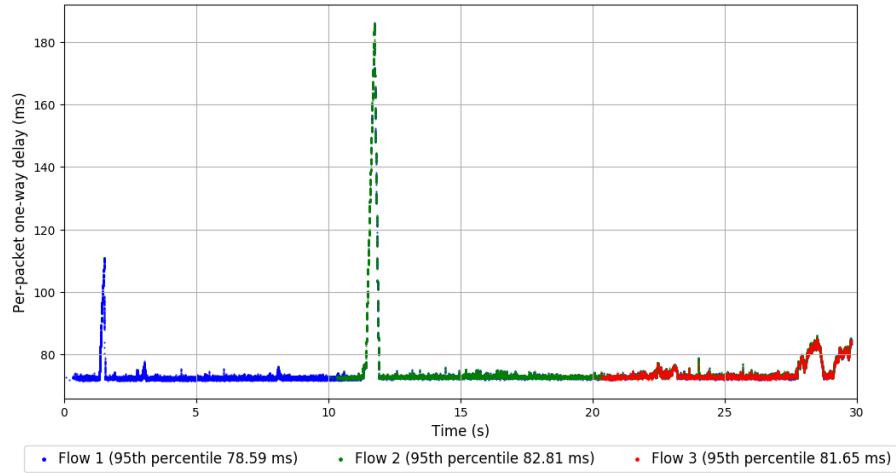
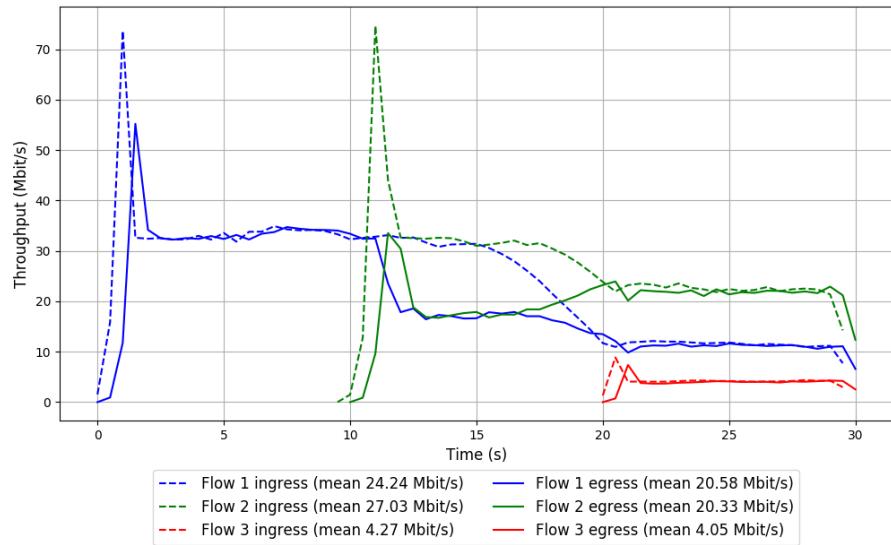


Run 5: Statistics of PCC-Allegro

```
Start at: 2018-12-20 09:39:10
End at: 2018-12-20 09:39:40
Local clock offset: 4.395 ms
Remote clock offset: 38.684 ms

# Below is generated by plot.py at 2018-12-20 10:09:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.40 Mbit/s
95th percentile per-packet one-way delay: 81.255 ms
Loss rate: 19.16%
-- Flow 1:
Average throughput: 20.58 Mbit/s
95th percentile per-packet one-way delay: 78.587 ms
Loss rate: 15.42%
-- Flow 2:
Average throughput: 20.33 Mbit/s
95th percentile per-packet one-way delay: 82.810 ms
Loss rate: 25.21%
-- Flow 3:
Average throughput: 4.05 Mbit/s
95th percentile per-packet one-way delay: 81.654 ms
Loss rate: 6.47%
```

Run 5: Report of PCC-Allegro — Data Link

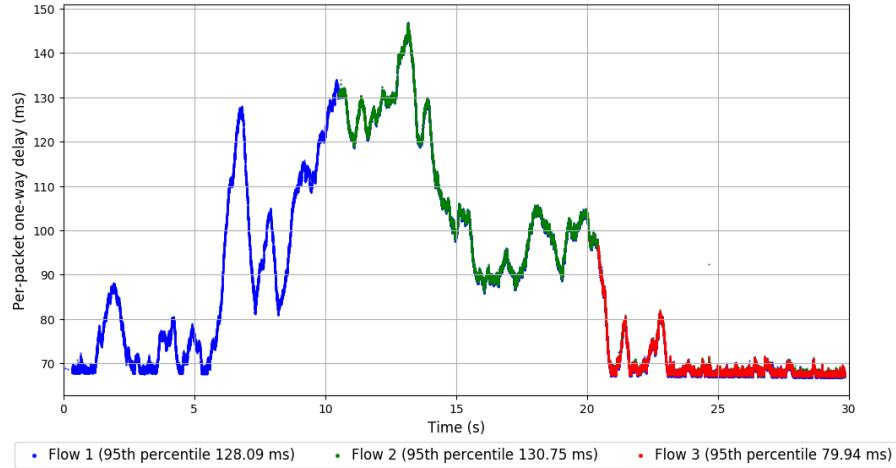
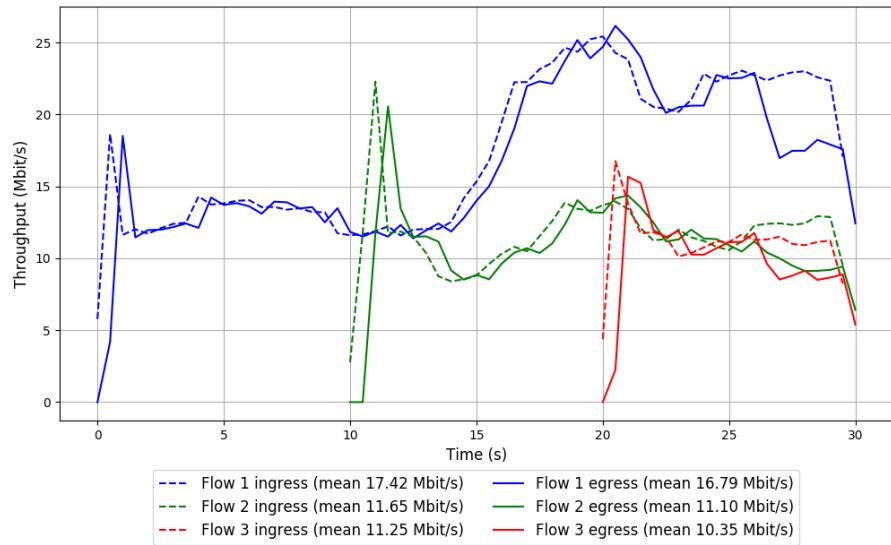


Run 1: Statistics of PCC-Expr

```
Start at: 2018-12-20 07:59:24
End at: 2018-12-20 07:59:54
Local clock offset: 2.812 ms
Remote clock offset: -8.199 ms

# Below is generated by plot.py at 2018-12-20 10:09:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.52 Mbit/s
95th percentile per-packet one-way delay: 128.776 ms
Loss rate: 5.06%
-- Flow 1:
Average throughput: 16.79 Mbit/s
95th percentile per-packet one-way delay: 128.086 ms
Loss rate: 3.95%
-- Flow 2:
Average throughput: 11.10 Mbit/s
95th percentile per-packet one-way delay: 130.750 ms
Loss rate: 5.53%
-- Flow 3:
Average throughput: 10.35 Mbit/s
95th percentile per-packet one-way delay: 79.936 ms
Loss rate: 9.28%
```

Run 1: Report of PCC-Expr — Data Link

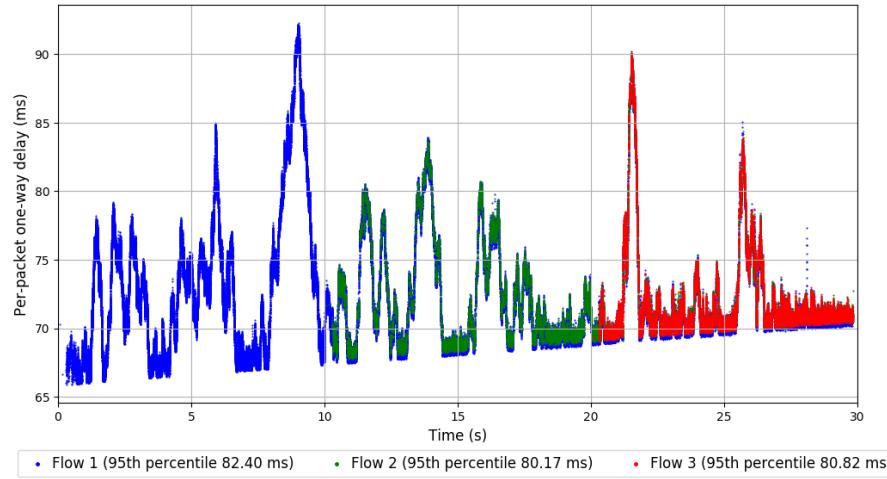
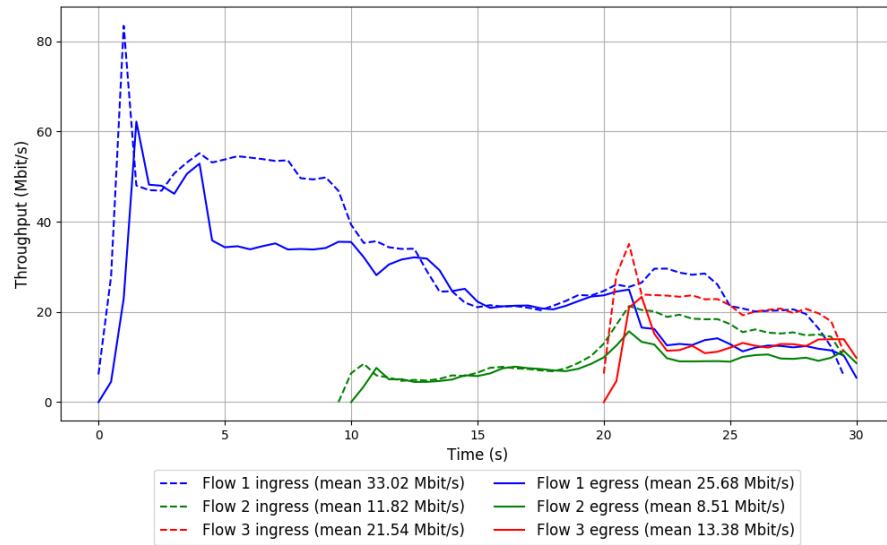


Run 2: Statistics of PCC-Expr

```
Start at: 2018-12-20 08:23:28
End at: 2018-12-20 08:23:58
Local clock offset: 15.58 ms
Remote clock offset: -26.011 ms

# Below is generated by plot.py at 2018-12-20 10:10:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.72 Mbit/s
95th percentile per-packet one-way delay: 81.932 ms
Loss rate: 25.81%
-- Flow 1:
Average throughput: 25.68 Mbit/s
95th percentile per-packet one-way delay: 82.400 ms
Loss rate: 22.47%
-- Flow 2:
Average throughput: 8.51 Mbit/s
95th percentile per-packet one-way delay: 80.173 ms
Loss rate: 28.36%
-- Flow 3:
Average throughput: 13.38 Mbit/s
95th percentile per-packet one-way delay: 80.816 ms
Loss rate: 38.52%
```

Run 2: Report of PCC-Expr — Data Link

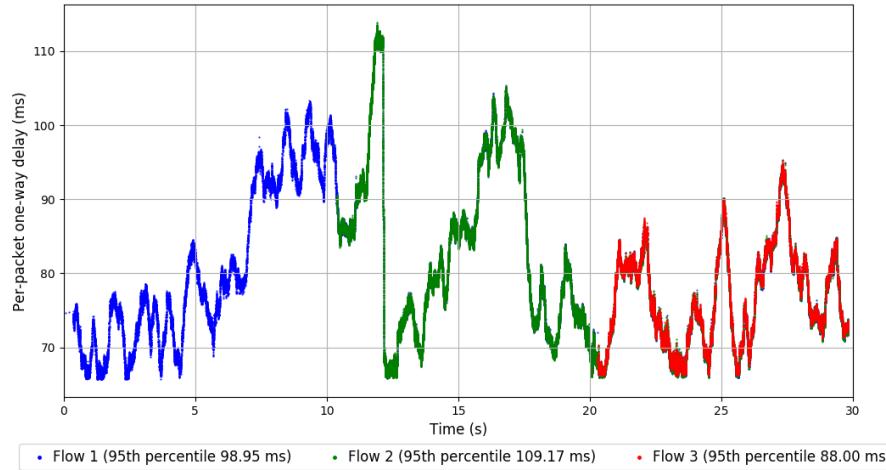
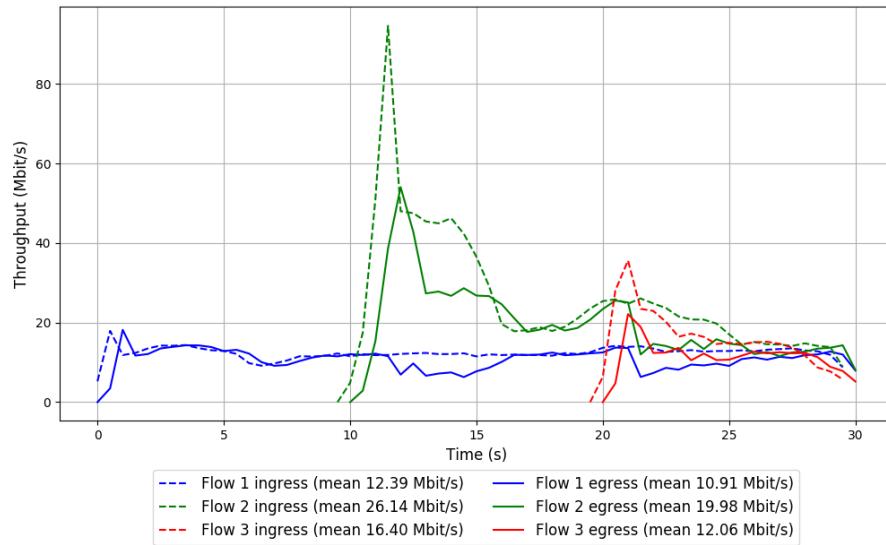


Run 3: Statistics of PCC-Expr

```
Start at: 2018-12-20 08:53:27
End at: 2018-12-20 08:53:57
Local clock offset: 20.707 ms
Remote clock offset: 58.263 ms

# Below is generated by plot.py at 2018-12-20 10:10:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.13 Mbit/s
95th percentile per-packet one-way delay: 101.662 ms
Loss rate: 20.41%
-- Flow 1:
Average throughput: 10.91 Mbit/s
95th percentile per-packet one-way delay: 98.955 ms
Loss rate: 12.29%
-- Flow 2:
Average throughput: 19.98 Mbit/s
95th percentile per-packet one-way delay: 109.168 ms
Loss rate: 24.07%
-- Flow 3:
Average throughput: 12.06 Mbit/s
95th percentile per-packet one-way delay: 87.999 ms
Loss rate: 27.20%
```

Run 3: Report of PCC-Expr — Data Link

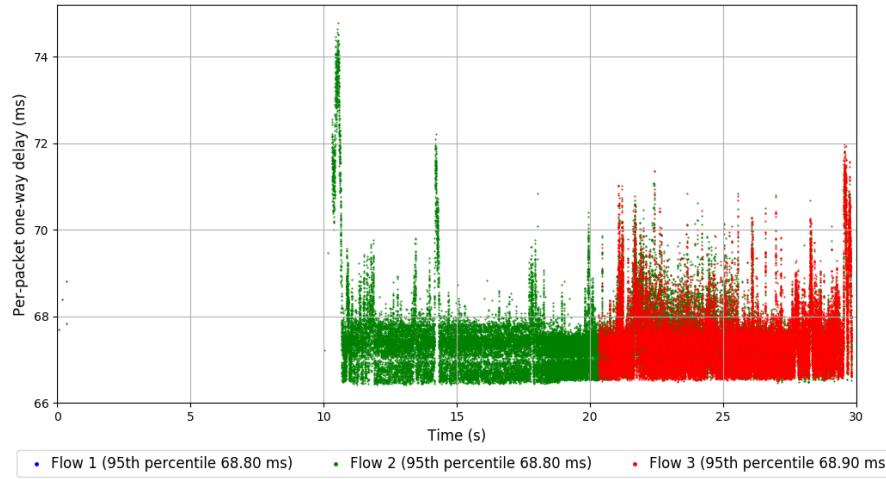
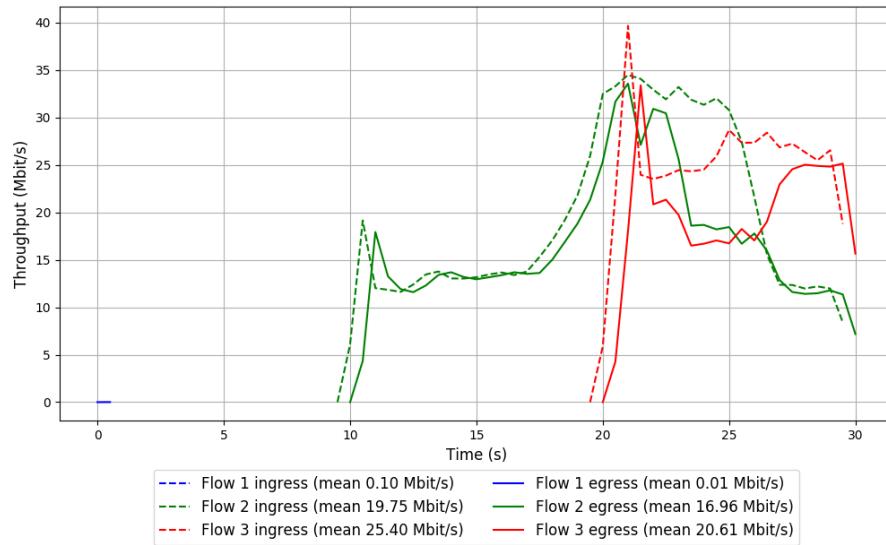


Run 4: Statistics of PCC-Expr

```
Start at: 2018-12-20 09:17:16
End at: 2018-12-20 09:17:46
Local clock offset: 9.203 ms
Remote clock offset: 34.499 ms

# Below is generated by plot.py at 2018-12-20 10:10:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.03 Mbit/s
95th percentile per-packet one-way delay: 68.840 ms
Loss rate: 16.62%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 68.804 ms
Loss rate: 86.98%
-- Flow 2:
Average throughput: 16.96 Mbit/s
95th percentile per-packet one-way delay: 68.799 ms
Loss rate: 14.61%
-- Flow 3:
Average throughput: 20.61 Mbit/s
95th percentile per-packet one-way delay: 68.900 ms
Loss rate: 19.77%
```

Run 4: Report of PCC-Expr — Data Link

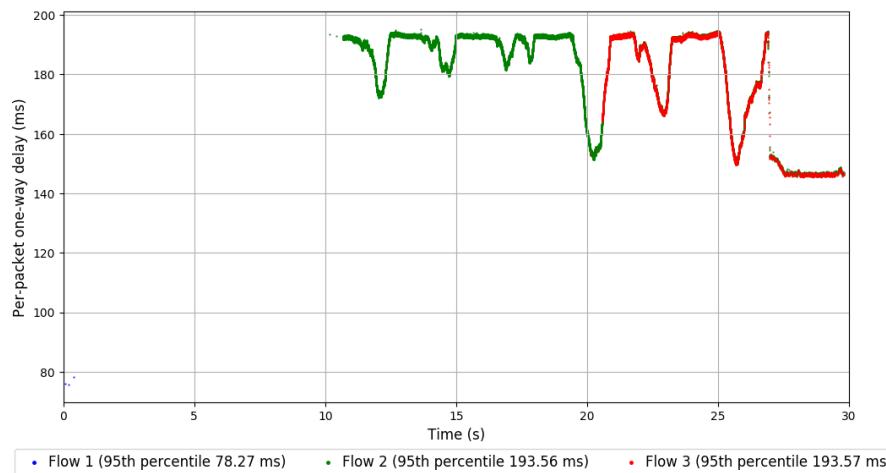
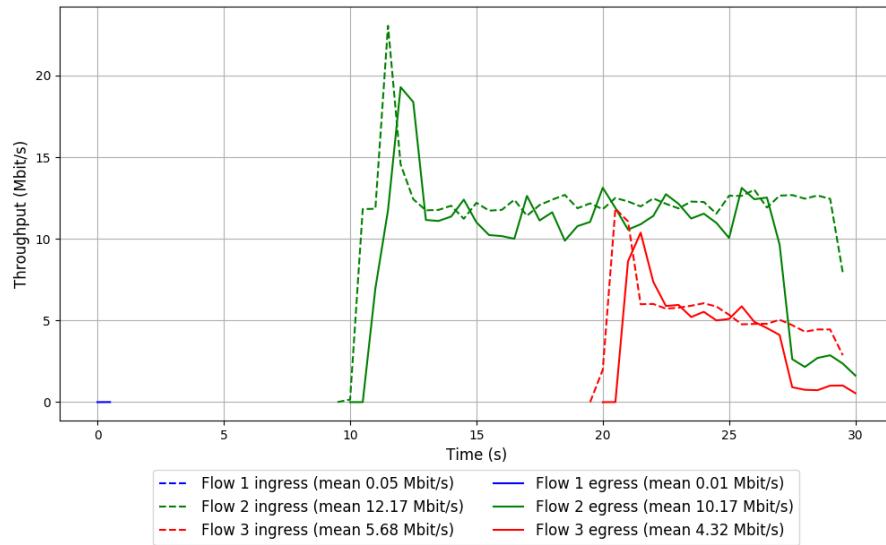


Run 5: Statistics of PCC-Expr

```
Start at: 2018-12-20 09:41:41
End at: 2018-12-20 09:42:11
Local clock offset: 5.276 ms
Remote clock offset: 37.427 ms

# Below is generated by plot.py at 2018-12-20 10:10:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.12 Mbit/s
95th percentile per-packet one-way delay: 193.559 ms
Loss rate: 18.87%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 78.266 ms
Loss rate: 80.95%
-- Flow 2:
Average throughput: 10.17 Mbit/s
95th percentile per-packet one-way delay: 193.555 ms
Loss rate: 17.37%
-- Flow 3:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: 193.572 ms
Loss rate: 25.33%
```

Run 5: Report of PCC-Expr — Data Link

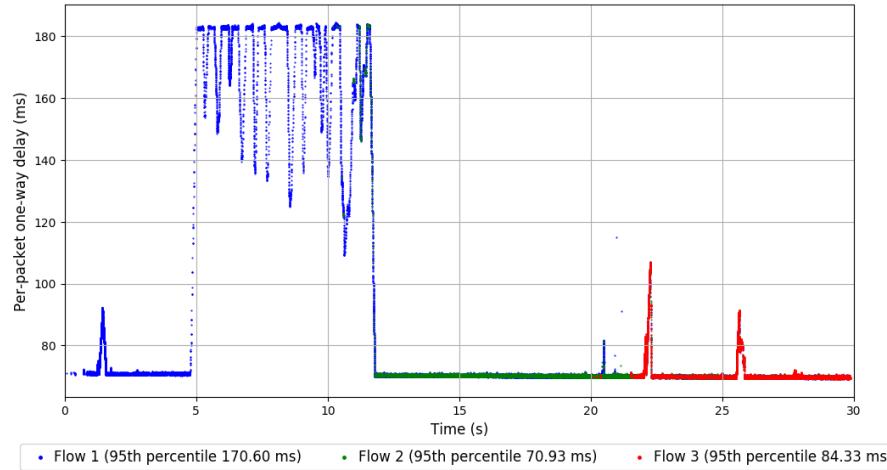
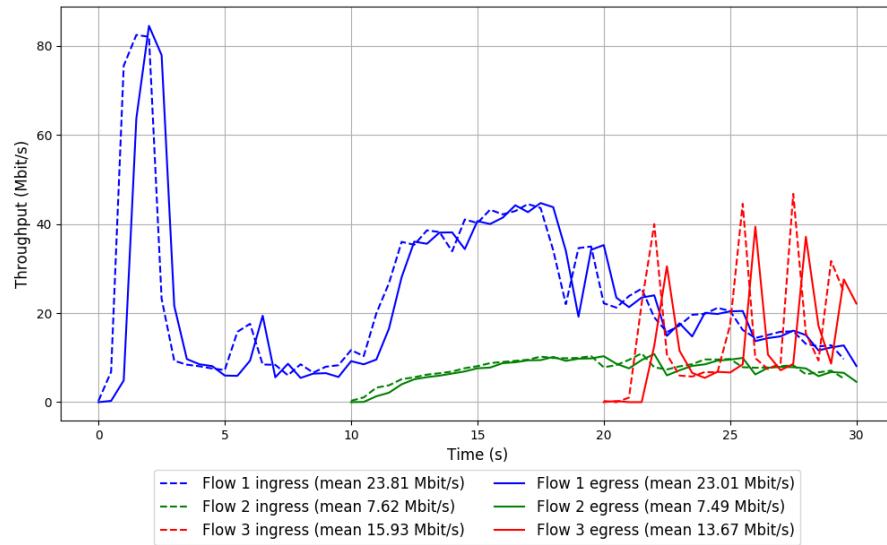


Run 1: Statistics of QUIC Cubic

```
Start at: 2018-12-20 08:06:59
End at: 2018-12-20 08:07:29
Local clock offset: 4.751 ms
Remote clock offset: -24.676 ms

# Below is generated by plot.py at 2018-12-20 10:10:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 32.45 Mbit/s
95th percentile per-packet one-way delay: 159.895 ms
Loss rate: 5.34%
-- Flow 1:
Average throughput: 23.01 Mbit/s
95th percentile per-packet one-way delay: 170.603 ms
Loss rate: 3.69%
-- Flow 2:
Average throughput: 7.49 Mbit/s
95th percentile per-packet one-way delay: 70.928 ms
Loss rate: 2.85%
-- Flow 3:
Average throughput: 13.67 Mbit/s
95th percentile per-packet one-way delay: 84.326 ms
Loss rate: 15.18%
```

Run 1: Report of QUIC Cubic — Data Link

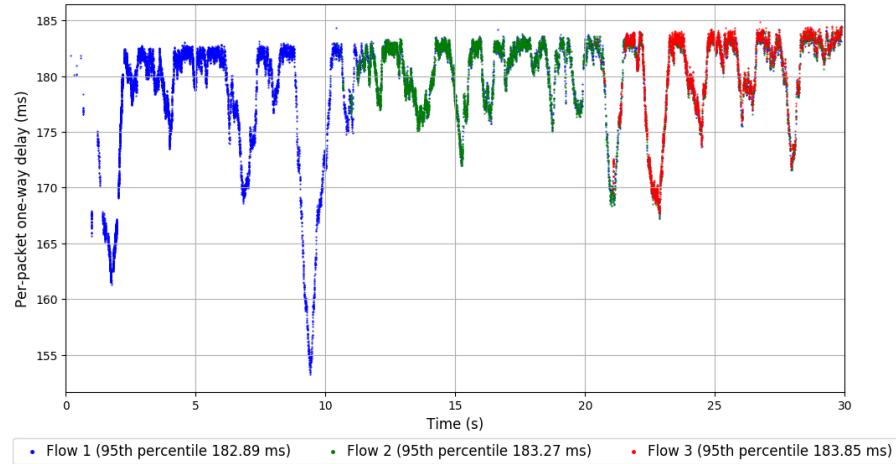
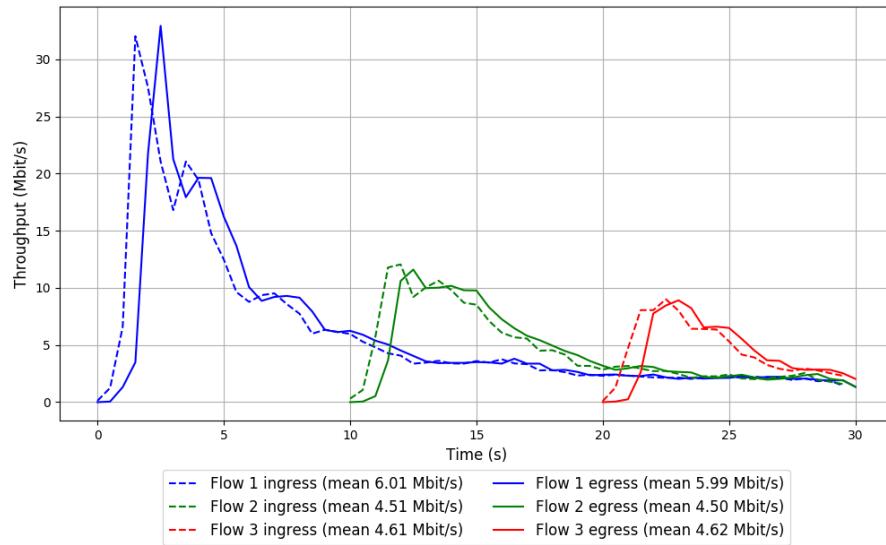


Run 2: Statistics of QUIC Cubic

```
Start at: 2018-12-20 08:31:49
End at: 2018-12-20 08:32:19
Local clock offset: 18.014 ms
Remote clock offset: 24.208 ms

# Below is generated by plot.py at 2018-12-20 10:10:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.48 Mbit/s
95th percentile per-packet one-way delay: 183.345 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 5.99 Mbit/s
95th percentile per-packet one-way delay: 182.886 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 4.50 Mbit/s
95th percentile per-packet one-way delay: 183.269 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 4.62 Mbit/s
95th percentile per-packet one-way delay: 183.846 ms
Loss rate: 2.13%
```

Run 2: Report of QUIC Cubic — Data Link

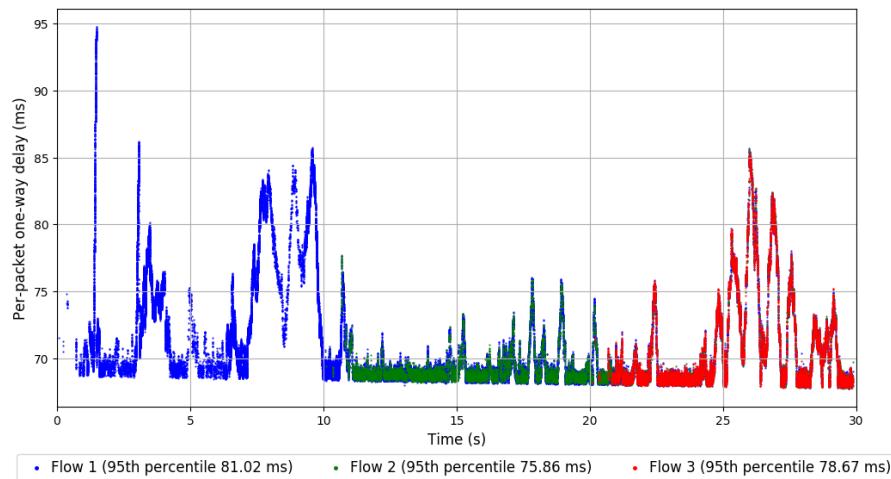
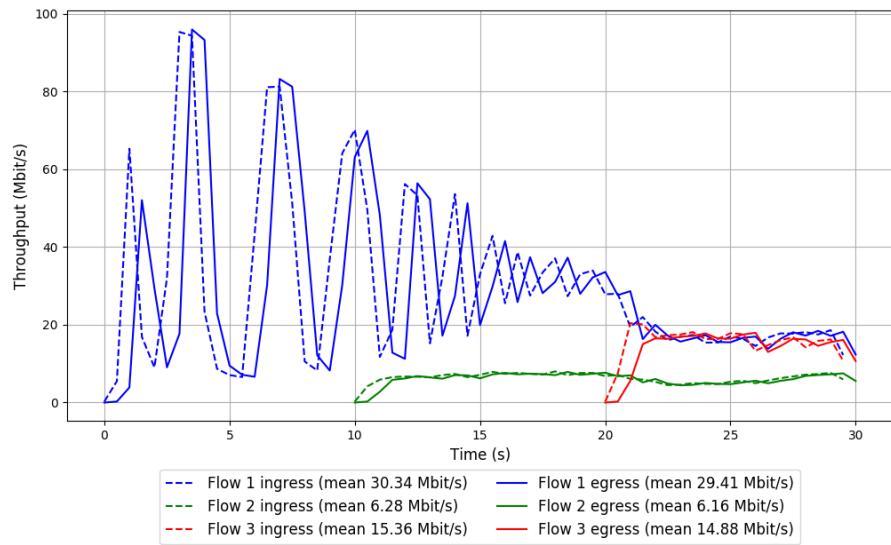


Run 3: Statistics of QUIC Cubic

```
Start at: 2018-12-20 09:01:01
End at: 2018-12-20 09:01:31
Local clock offset: 22.046 ms
Remote clock offset: 47.192 ms

# Below is generated by plot.py at 2018-12-20 10:10:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.38 Mbit/s
95th percentile per-packet one-way delay: 80.395 ms
Loss rate: 3.46%
-- Flow 1:
Average throughput: 29.41 Mbit/s
95th percentile per-packet one-way delay: 81.016 ms
Loss rate: 3.46%
-- Flow 2:
Average throughput: 6.16 Mbit/s
95th percentile per-packet one-way delay: 75.865 ms
Loss rate: 2.49%
-- Flow 3:
Average throughput: 14.88 Mbit/s
95th percentile per-packet one-way delay: 78.665 ms
Loss rate: 4.31%
```

Run 3: Report of QUIC Cubic — Data Link

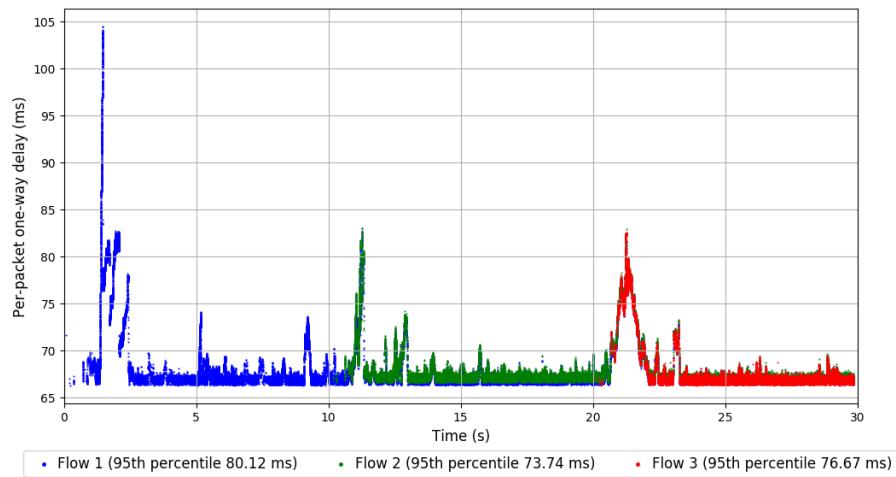
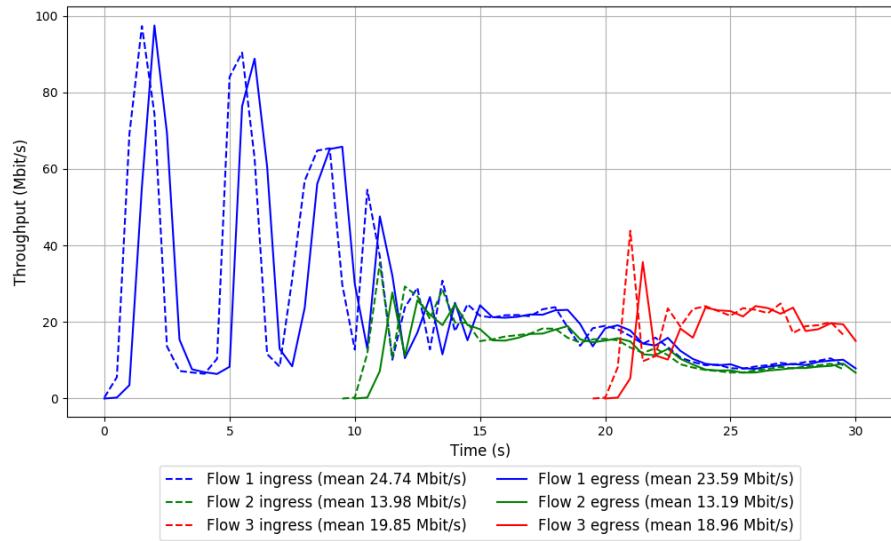


Run 4: Statistics of QUIC Cubic

```
Start at: 2018-12-20 09:24:59
End at: 2018-12-20 09:25:29
Local clock offset: 6.039 ms
Remote clock offset: 32.454 ms

# Below is generated by plot.py at 2018-12-20 10:10:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.59 Mbit/s
95th percentile per-packet one-way delay: 77.976 ms
Loss rate: 5.37%
-- Flow 1:
Average throughput: 23.59 Mbit/s
95th percentile per-packet one-way delay: 80.118 ms
Loss rate: 5.03%
-- Flow 2:
Average throughput: 13.19 Mbit/s
95th percentile per-packet one-way delay: 73.741 ms
Loss rate: 6.17%
-- Flow 3:
Average throughput: 18.96 Mbit/s
95th percentile per-packet one-way delay: 76.675 ms
Loss rate: 5.54%
```

Run 4: Report of QUIC Cubic — Data Link

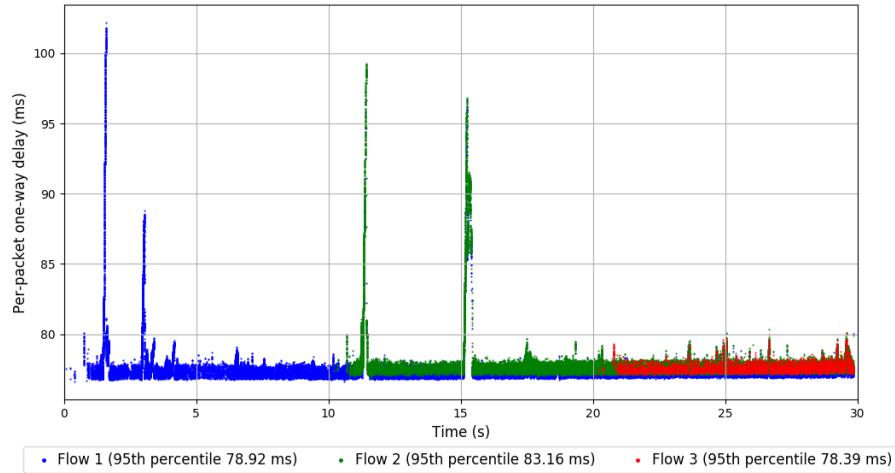
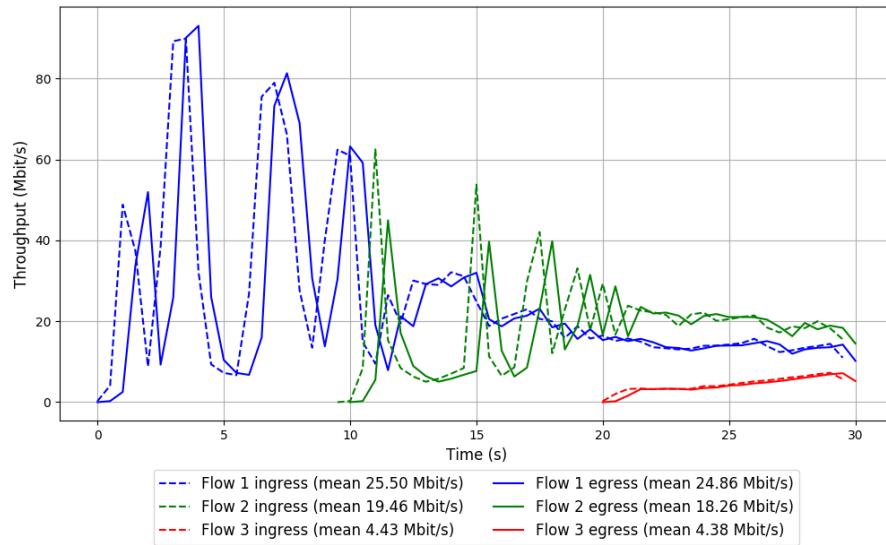


Run 5: Statistics of QUIC Cubic

```
Start at: 2018-12-20 09:57:41
End at: 2018-12-20 09:58:11
Local clock offset: 5.656 ms
Remote clock offset: 42.236 ms

# Below is generated by plot.py at 2018-12-20 10:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.43 Mbit/s
95th percentile per-packet one-way delay: 79.264 ms
Loss rate: 4.16%
-- Flow 1:
Average throughput: 24.86 Mbit/s
95th percentile per-packet one-way delay: 78.925 ms
Loss rate: 2.99%
-- Flow 2:
Average throughput: 18.26 Mbit/s
95th percentile per-packet one-way delay: 83.155 ms
Loss rate: 6.66%
-- Flow 3:
Average throughput: 4.38 Mbit/s
95th percentile per-packet one-way delay: 78.391 ms
Loss rate: 2.35%
```

Run 5: Report of QUIC Cubic — Data Link

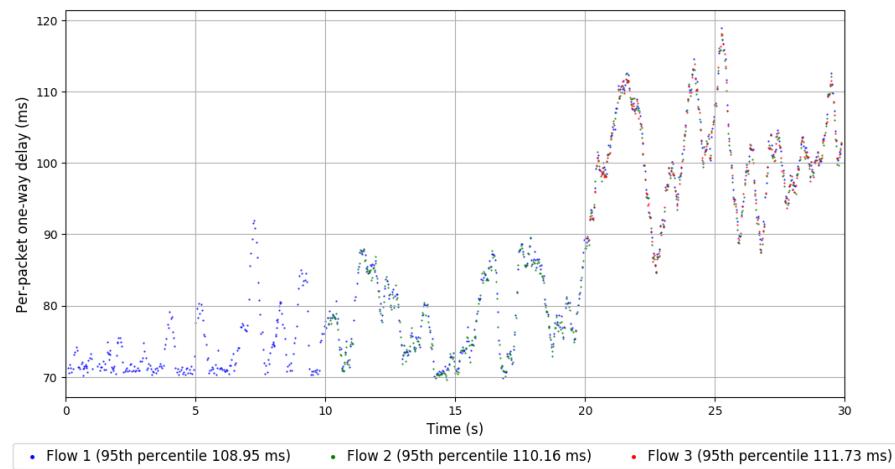
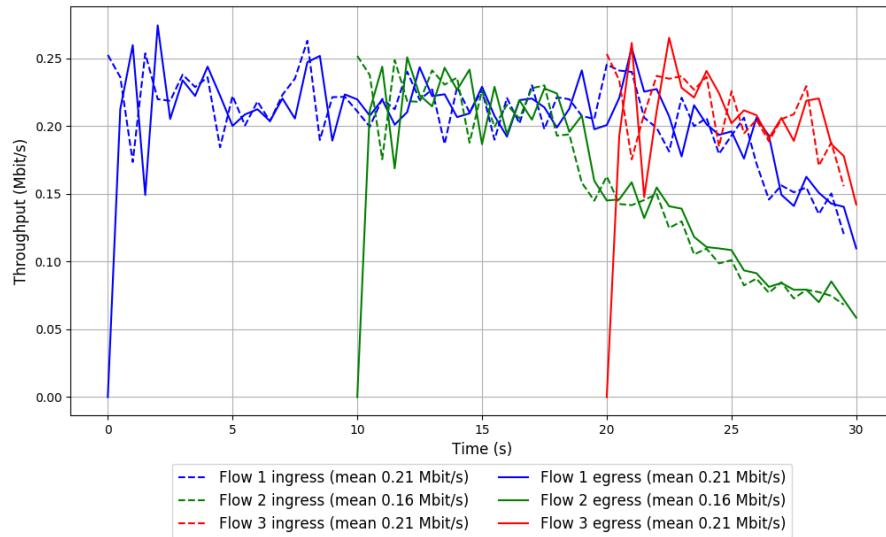


Run 1: Statistics of SCReAM

```
Start at: 2018-12-20 08:11:59
End at: 2018-12-20 08:12:29
Local clock offset: 10.376 ms
Remote clock offset: -30.566 ms

# Below is generated by plot.py at 2018-12-20 10:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 110.382 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 108.948 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 110.158 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 111.729 ms
Loss rate: 1.29%
```

Run 1: Report of SCReAM — Data Link

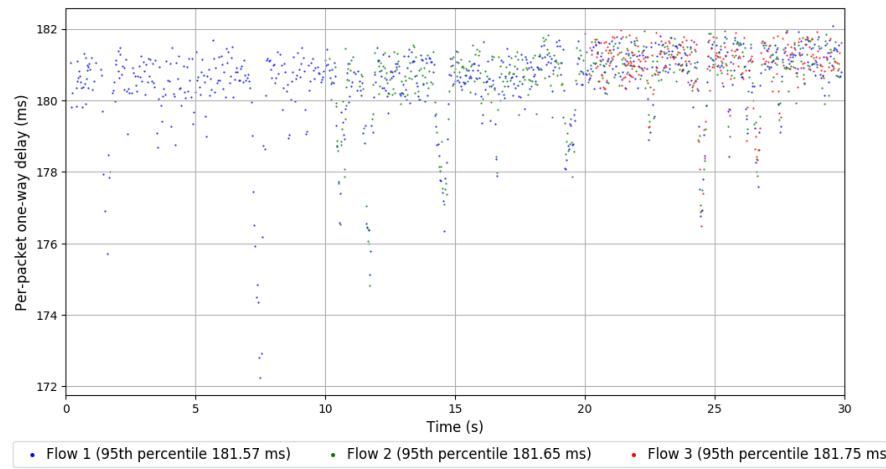
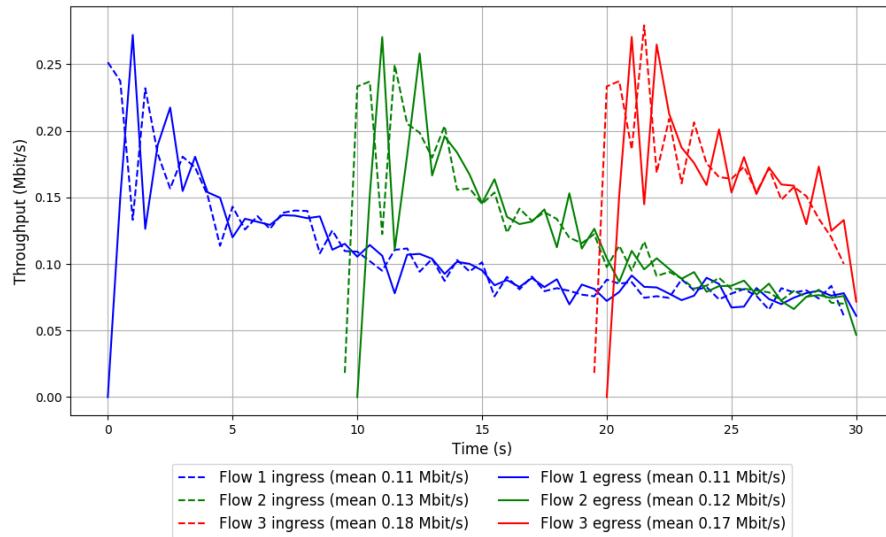


Run 2: Statistics of SCReAM

```
Start at: 2018-12-20 08:41:48
End at: 2018-12-20 08:42:18
Local clock offset: 19.204 ms
Remote clock offset: 48.434 ms

# Below is generated by plot.py at 2018-12-20 10:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 181.649 ms
Loss rate: 3.35%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 181.570 ms
Loss rate: 2.44%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 181.654 ms
Loss rate: 4.19%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 181.754 ms
Loss rate: 3.84%
```

Run 2: Report of SCReAM — Data Link

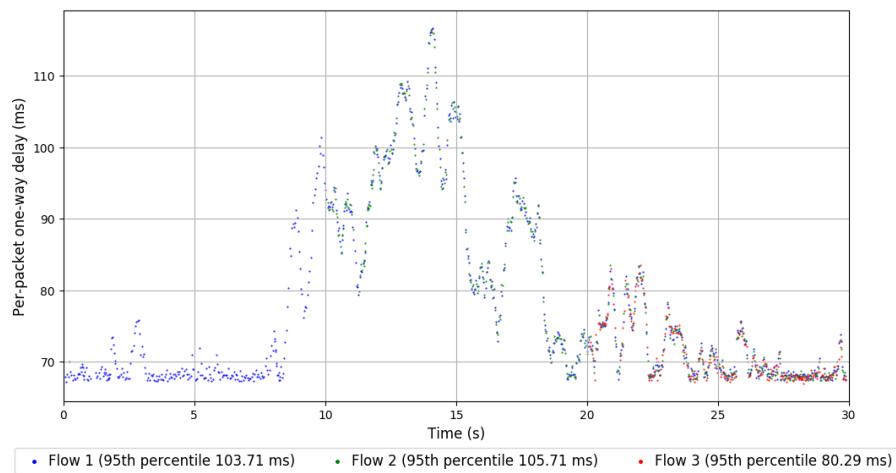
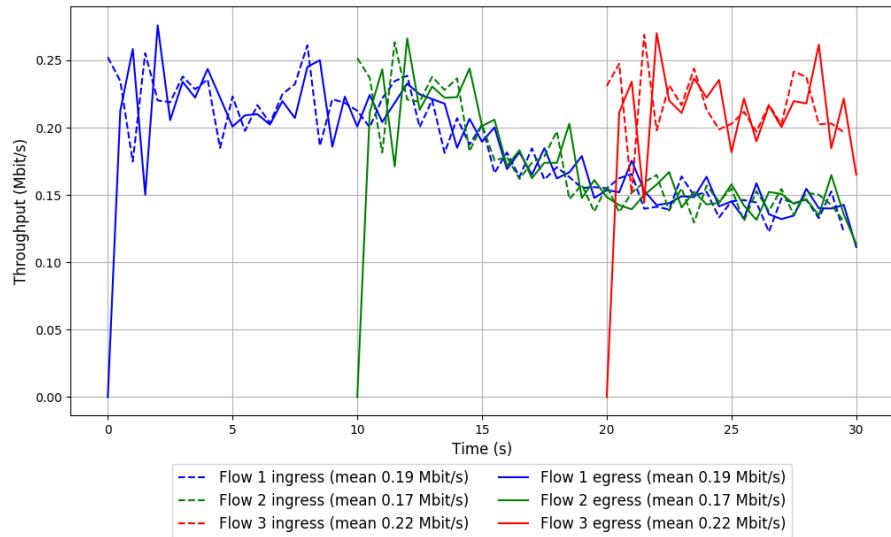


Run 3: Statistics of SCReAM

```
Start at: 2018-12-20 09:06:03
End at: 2018-12-20 09:06:33
Local clock offset: 21.231 ms
Remote clock offset: 42.292 ms

# Below is generated by plot.py at 2018-12-20 10:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 103.968 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 103.709 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 105.706 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.286 ms
Loss rate: 1.09%
```

Run 3: Report of SCReAM — Data Link

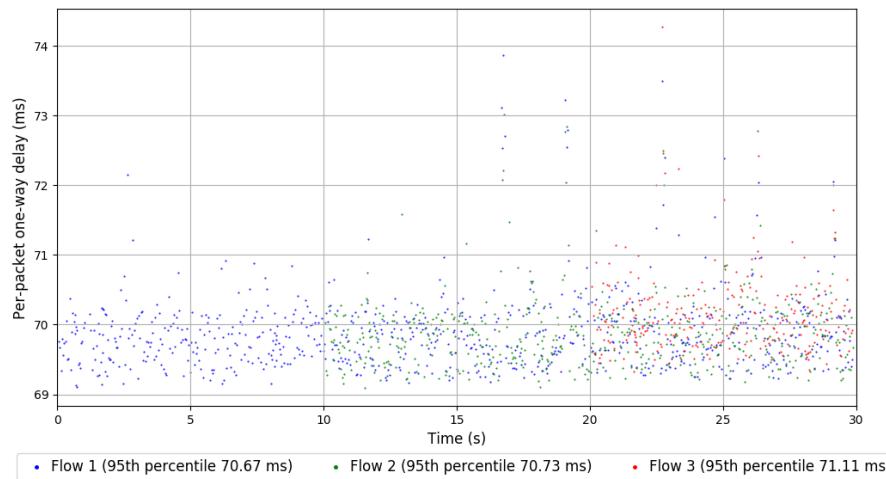
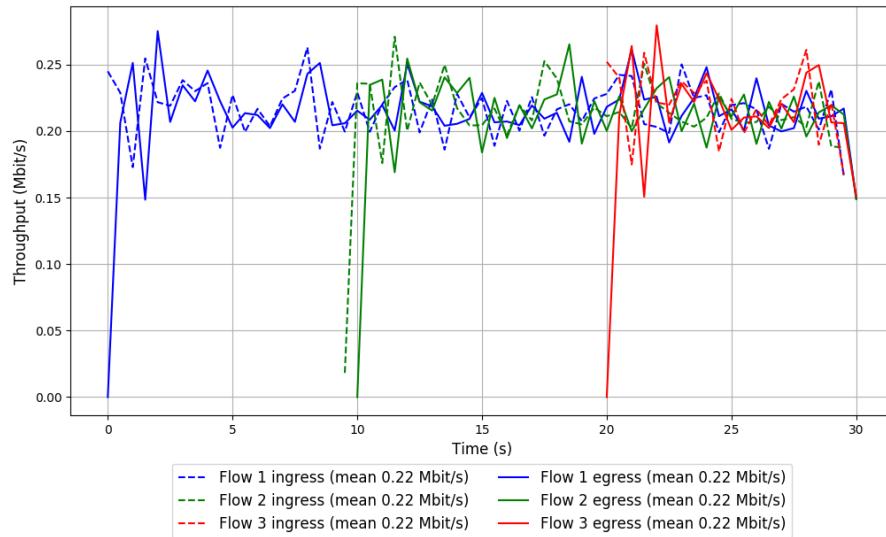


Run 4: Statistics of SCReAM

```
Start at: 2018-12-20 09:30:01
End at: 2018-12-20 09:30:31
Local clock offset: 4.701 ms
Remote clock offset: 28.592 ms

# Below is generated by plot.py at 2018-12-20 10:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 70.794 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 70.668 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 70.732 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 71.115 ms
Loss rate: 1.10%
```

Run 4: Report of SCReAM — Data Link

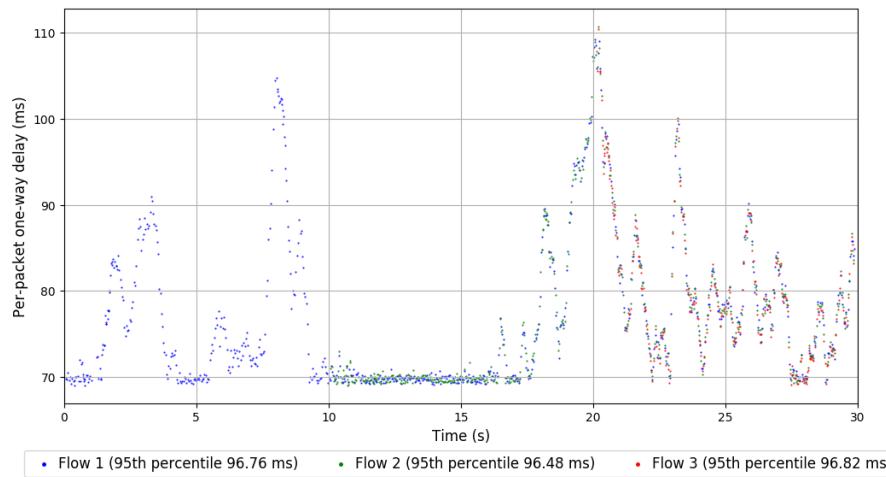
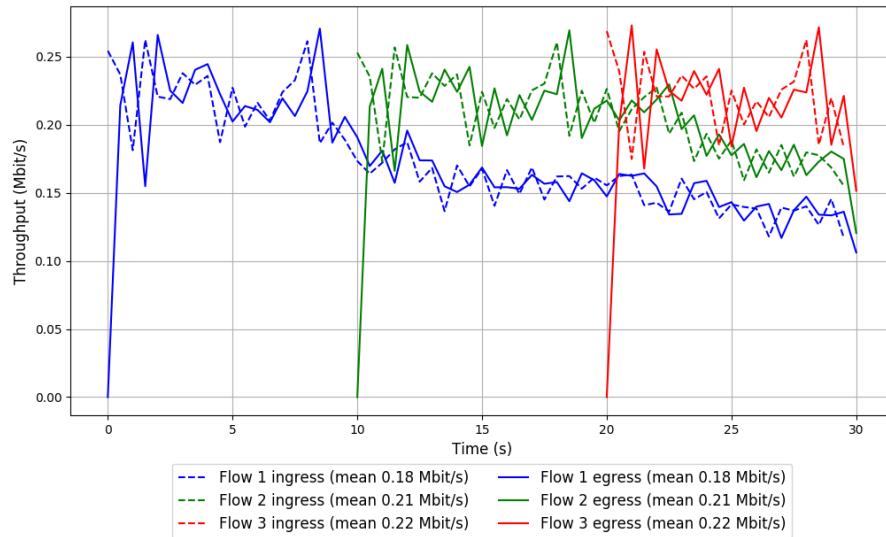


Run 5: Statistics of SCReAM

```
Start at: 2018-12-20 10:02:43
End at: 2018-12-20 10:03:13
Local clock offset: 5.742 ms
Remote clock offset: 51.408 ms

# Below is generated by plot.py at 2018-12-20 10:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 96.686 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 96.764 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 96.482 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 96.823 ms
Loss rate: 1.45%
```

Run 5: Report of SCReAM — Data Link

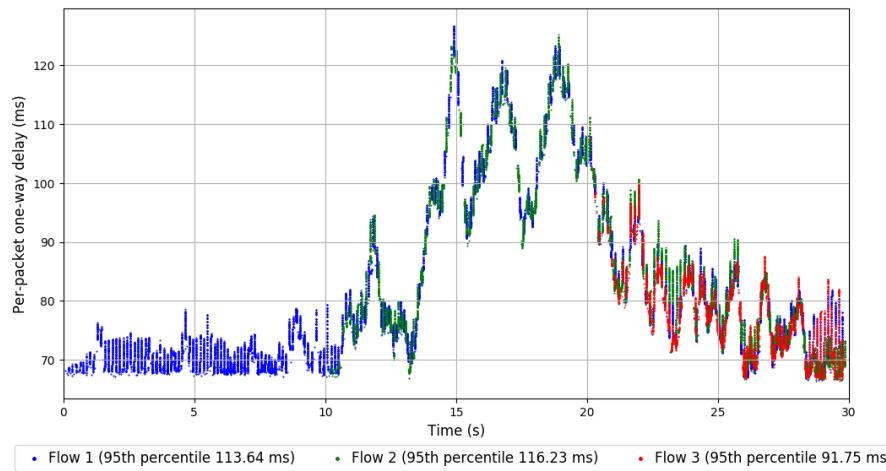
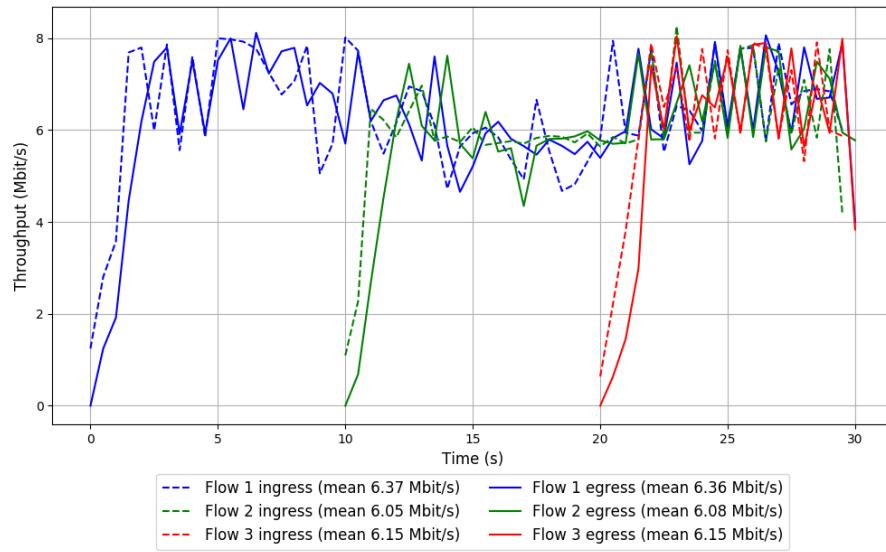


Run 1: Statistics of Sprout

```
Start at: 2018-12-20 08:00:40
End at: 2018-12-20 08:01:10
Local clock offset: 2.858 ms
Remote clock offset: -10.189 ms

# Below is generated by plot.py at 2018-12-20 10:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.39 Mbit/s
95th percentile per-packet one-way delay: 113.350 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 6.36 Mbit/s
95th percentile per-packet one-way delay: 113.639 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 6.08 Mbit/s
95th percentile per-packet one-way delay: 116.231 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 6.15 Mbit/s
95th percentile per-packet one-way delay: 91.751 ms
Loss rate: 1.68%
```

Run 1: Report of Sprout — Data Link

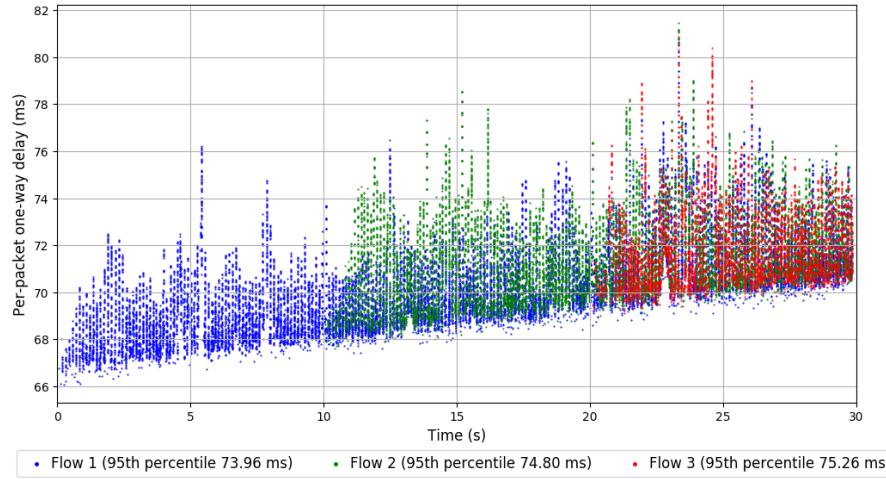
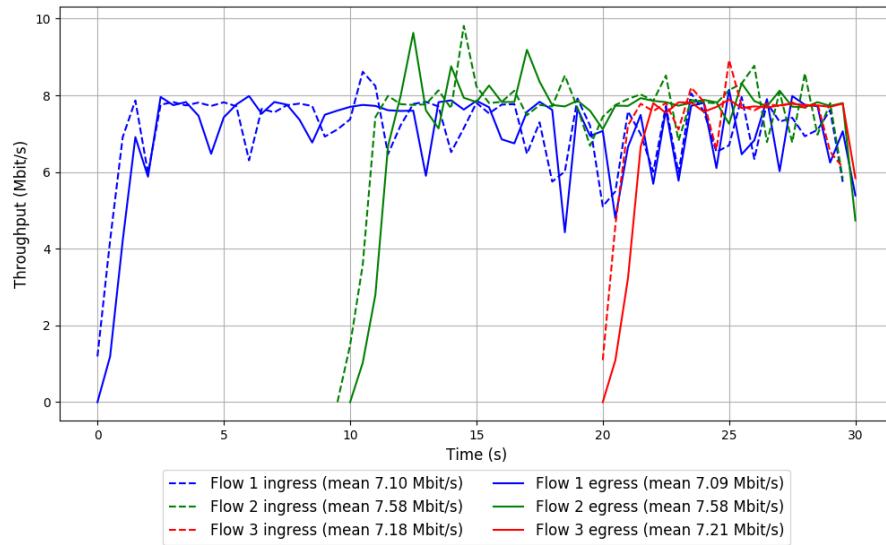


Run 2: Statistics of Sprout

```
Start at: 2018-12-20 08:24:46
End at: 2018-12-20 08:25:16
Local clock offset: 15.929 ms
Remote clock offset: -15.009 ms

# Below is generated by plot.py at 2018-12-20 10:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.48 Mbit/s
95th percentile per-packet one-way delay: 74.578 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 7.09 Mbit/s
95th percentile per-packet one-way delay: 73.960 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 7.58 Mbit/s
95th percentile per-packet one-way delay: 74.804 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 7.21 Mbit/s
95th percentile per-packet one-way delay: 75.260 ms
Loss rate: 0.71%
```

Run 2: Report of Sprout — Data Link

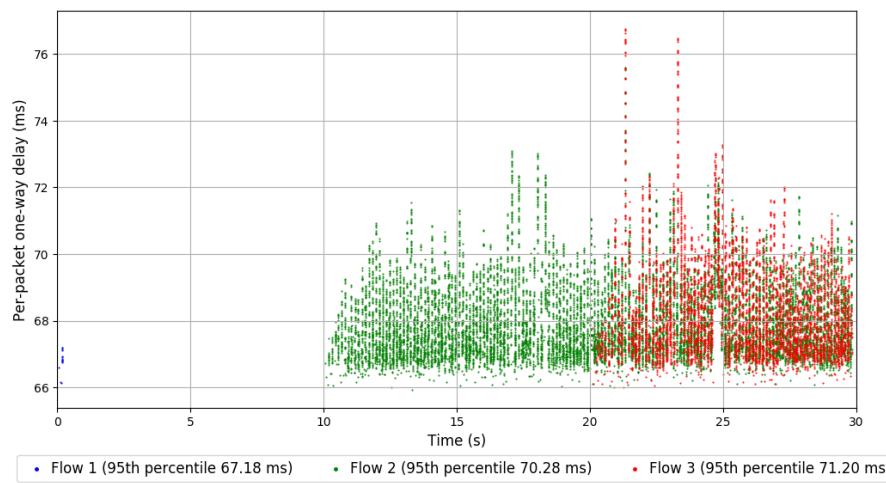
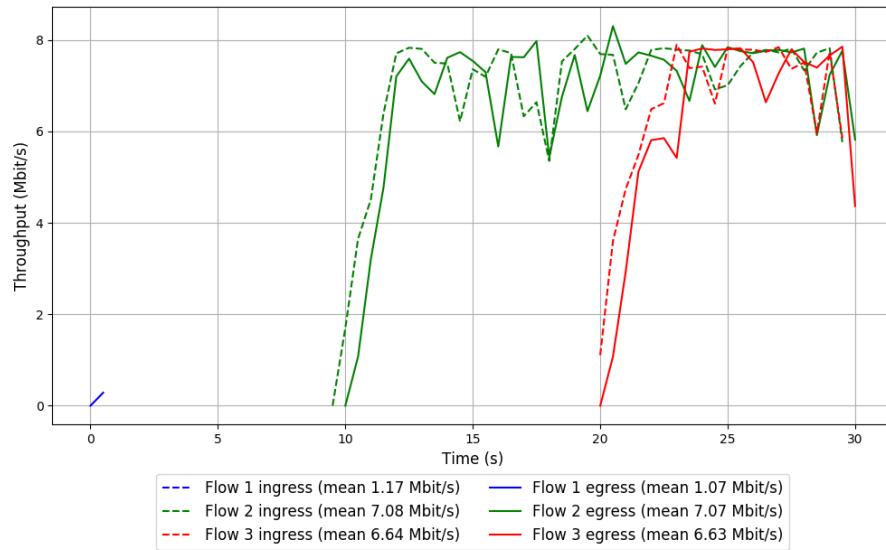


Run 3: Statistics of Sprout

```
Start at: 2018-12-20 08:54:42
End at: 2018-12-20 08:55:12
Local clock offset: 20.915 ms
Remote clock offset: 59.008 ms

# Below is generated by plot.py at 2018-12-20 10:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.87 Mbit/s
95th percentile per-packet one-way delay: 70.573 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 1.07 Mbit/s
95th percentile per-packet one-way delay: 67.178 ms
Loss rate: 7.72%
-- Flow 2:
Average throughput: 7.07 Mbit/s
95th percentile per-packet one-way delay: 70.281 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 6.63 Mbit/s
95th percentile per-packet one-way delay: 71.197 ms
Loss rate: 1.22%
```

Run 3: Report of Sprout — Data Link

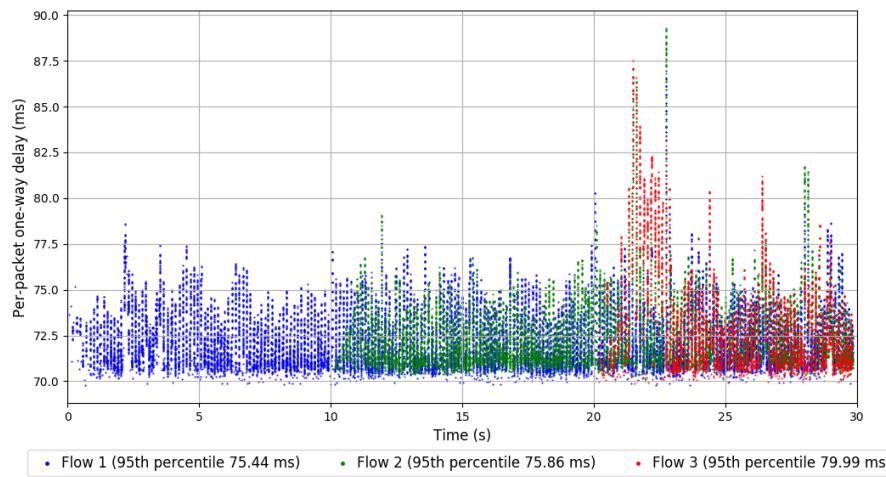
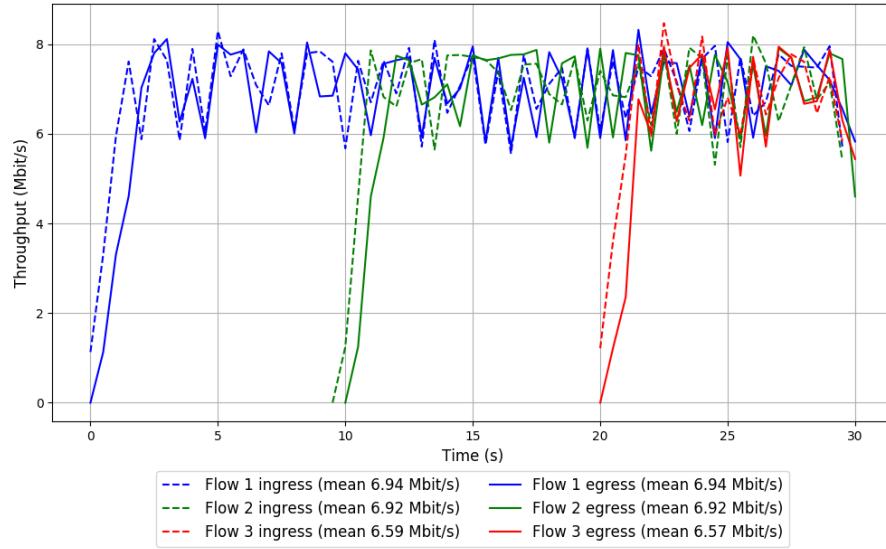


Run 4: Statistics of Sprout

```
Start at: 2018-12-20 09:18:31
End at: 2018-12-20 09:19:01
Local clock offset: 8.7 ms
Remote clock offset: 30.899 ms

# Below is generated by plot.py at 2018-12-20 10:10:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.67 Mbit/s
95th percentile per-packet one-way delay: 76.296 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 6.94 Mbit/s
95th percentile per-packet one-way delay: 75.441 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 6.92 Mbit/s
95th percentile per-packet one-way delay: 75.862 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 6.57 Mbit/s
95th percentile per-packet one-way delay: 79.988 ms
Loss rate: 1.49%
```

Run 4: Report of Sprout — Data Link

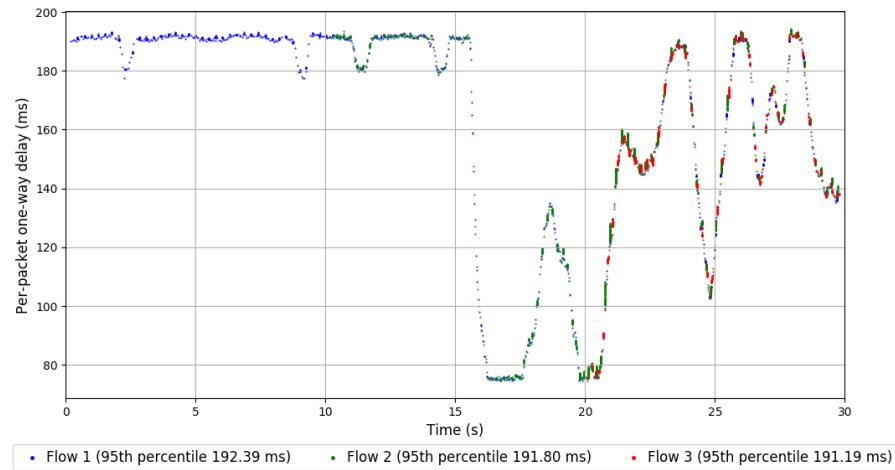
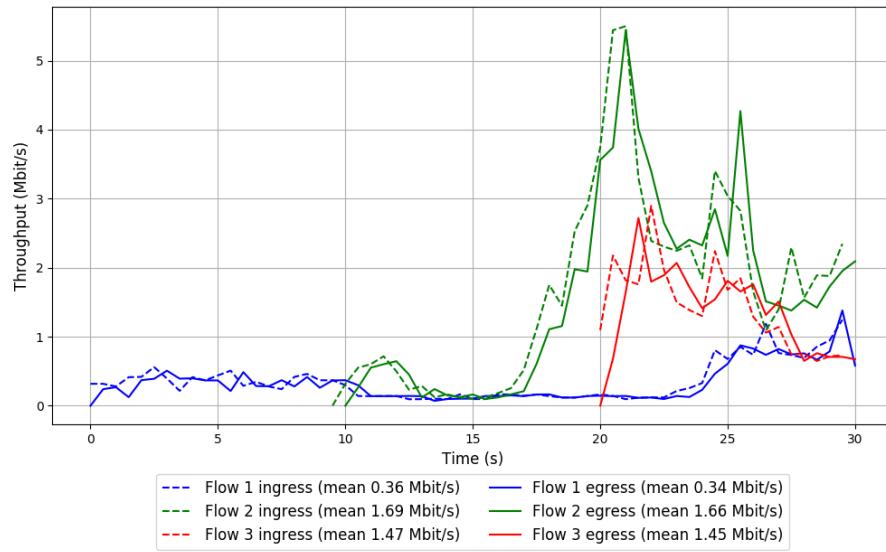


Run 5: Statistics of Sprout

```
Start at: 2018-12-20 09:47:11
End at: 2018-12-20 09:47:41
Local clock offset: 5.954 ms
Remote clock offset: 41.582 ms

# Below is generated by plot.py at 2018-12-20 10:10:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.91 Mbit/s
95th percentile per-packet one-way delay: 192.048 ms
Loss rate: 3.35%
-- Flow 1:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 192.388 ms
Loss rate: 6.28%
-- Flow 2:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 191.797 ms
Loss rate: 2.84%
-- Flow 3:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 191.194 ms
Loss rate: 2.40%
```

Run 5: Report of Sprout — Data Link

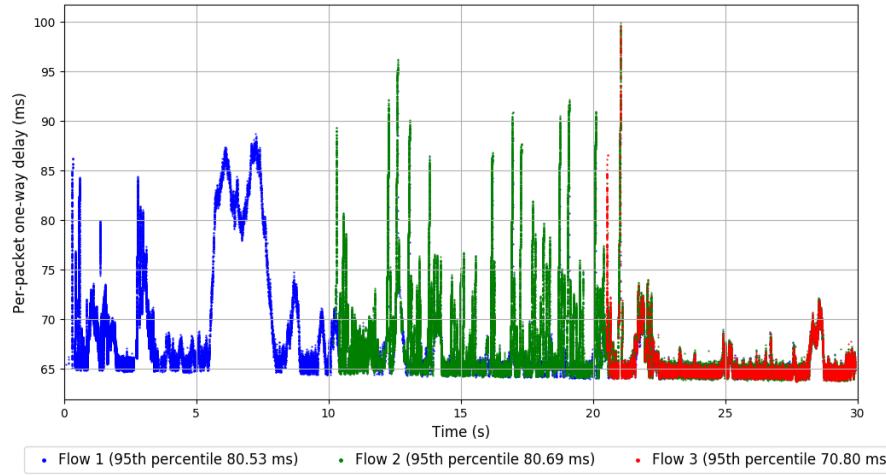
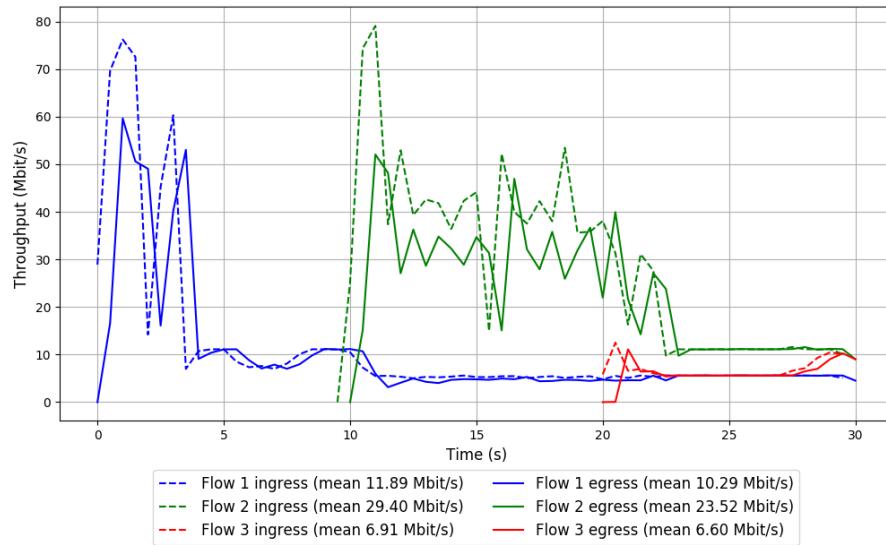


Run 1: Statistics of TaoVA-100x

```
Start at: 2018-12-20 08:09:27
End at: 2018-12-20 08:09:57
Local clock offset: 7.387 ms
Remote clock offset: -23.04 ms

# Below is generated by plot.py at 2018-12-20 10:10:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.06 Mbit/s
95th percentile per-packet one-way delay: 80.264 ms
Loss rate: 17.24%
-- Flow 1:
Average throughput: 10.29 Mbit/s
95th percentile per-packet one-way delay: 80.528 ms
Loss rate: 13.79%
-- Flow 2:
Average throughput: 23.52 Mbit/s
95th percentile per-packet one-way delay: 80.689 ms
Loss rate: 20.48%
-- Flow 3:
Average throughput: 6.60 Mbit/s
95th percentile per-packet one-way delay: 70.798 ms
Loss rate: 7.51%
```

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

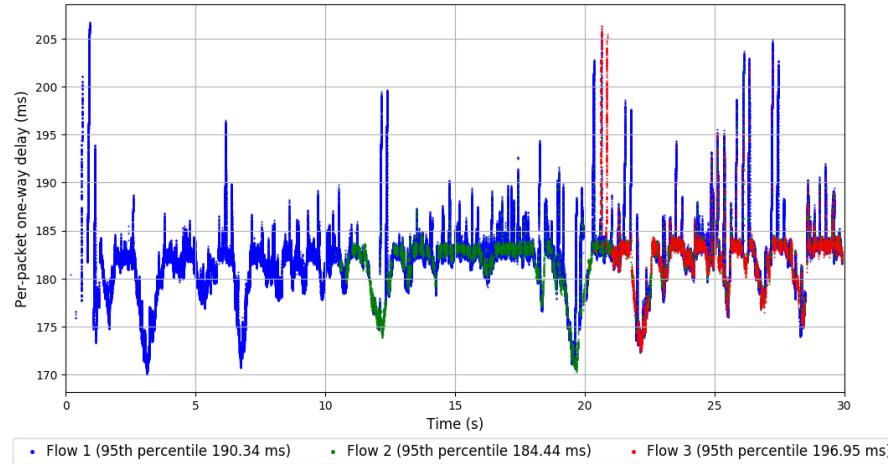
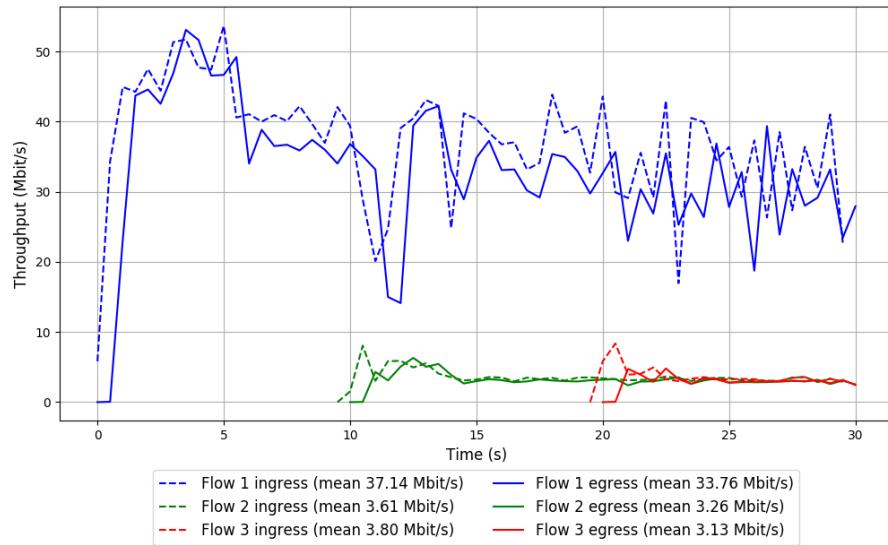


Run 2: Statistics of TaoVA-100x

```
Start at: 2018-12-20 08:34:42
End at: 2018-12-20 08:35:12
Local clock offset: 18.583 ms
Remote clock offset: 32.949 ms

# Below is generated by plot.py at 2018-12-20 10:11:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.95 Mbit/s
95th percentile per-packet one-way delay: 190.175 ms
Loss rate: 10.06%
-- Flow 1:
Average throughput: 33.76 Mbit/s
95th percentile per-packet one-way delay: 190.344 ms
Loss rate: 9.70%
-- Flow 2:
Average throughput: 3.26 Mbit/s
95th percentile per-packet one-way delay: 184.437 ms
Loss rate: 10.65%
-- Flow 3:
Average throughput: 3.13 Mbit/s
95th percentile per-packet one-way delay: 196.946 ms
Loss rate: 19.51%
```

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

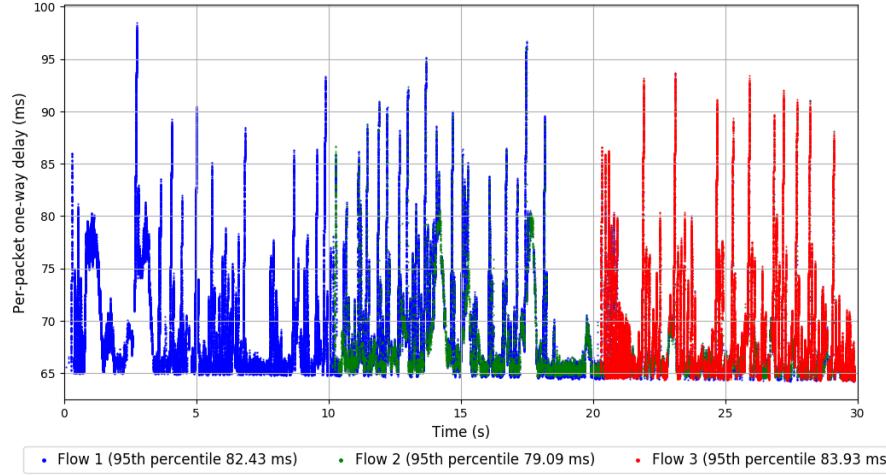
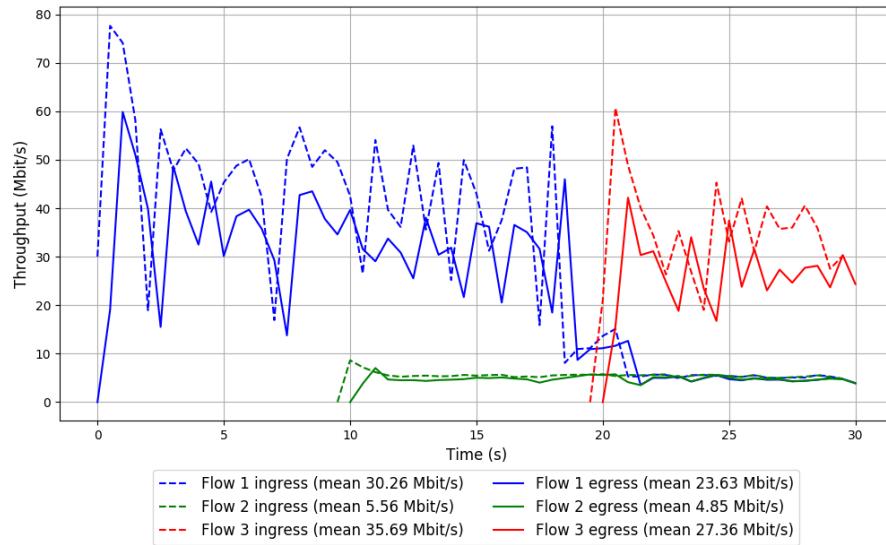


Run 3: Statistics of TaoVA-100x

```
Start at: 2018-12-20 09:03:31
End at: 2018-12-20 09:04:01
Local clock offset: 22.454 ms
Remote clock offset: 46.534 ms

# Below is generated by plot.py at 2018-12-20 10:11:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.89 Mbit/s
95th percentile per-packet one-way delay: 82.541 ms
Loss rate: 21.97%
-- Flow 1:
Average throughput: 23.63 Mbit/s
95th percentile per-packet one-way delay: 82.430 ms
Loss rate: 22.17%
-- Flow 2:
Average throughput: 4.85 Mbit/s
95th percentile per-packet one-way delay: 79.092 ms
Loss rate: 13.38%
-- Flow 3:
Average throughput: 27.36 Mbit/s
95th percentile per-packet one-way delay: 83.933 ms
Loss rate: 24.13%
```

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

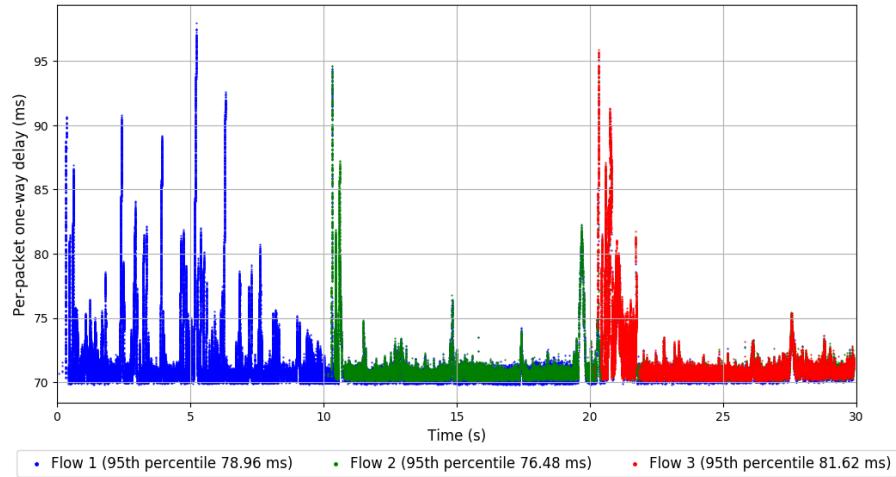
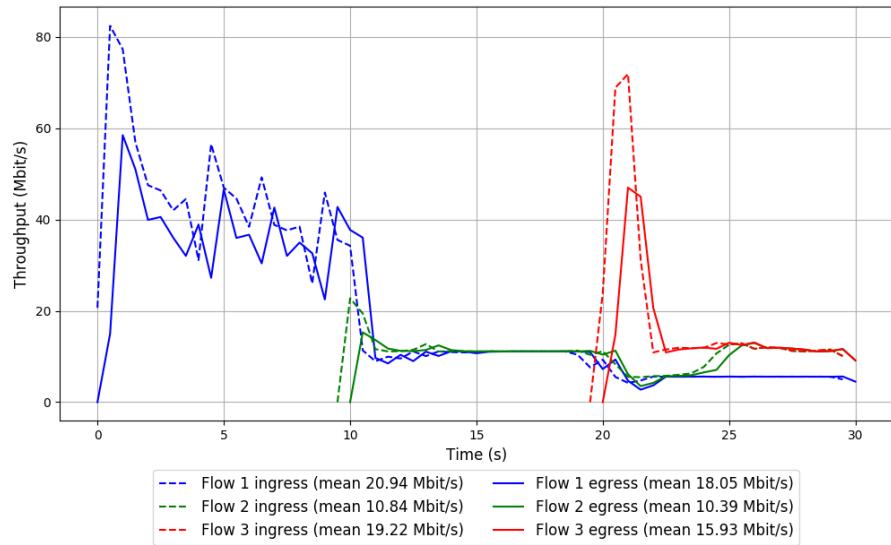


Run 4: Statistics of TaoVA-100x

```
Start at: 2018-12-20 09:27:28
End at: 2018-12-20 09:27:58
Local clock offset: 5.337 ms
Remote clock offset: 28.156 ms

# Below is generated by plot.py at 2018-12-20 10:11:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.22 Mbit/s
95th percentile per-packet one-way delay: 79.065 ms
Loss rate: 12.88%
-- Flow 1:
Average throughput: 18.05 Mbit/s
95th percentile per-packet one-way delay: 78.959 ms
Loss rate: 14.12%
-- Flow 2:
Average throughput: 10.39 Mbit/s
95th percentile per-packet one-way delay: 76.481 ms
Loss rate: 4.65%
-- Flow 3:
Average throughput: 15.93 Mbit/s
95th percentile per-packet one-way delay: 81.621 ms
Loss rate: 18.10%
```

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

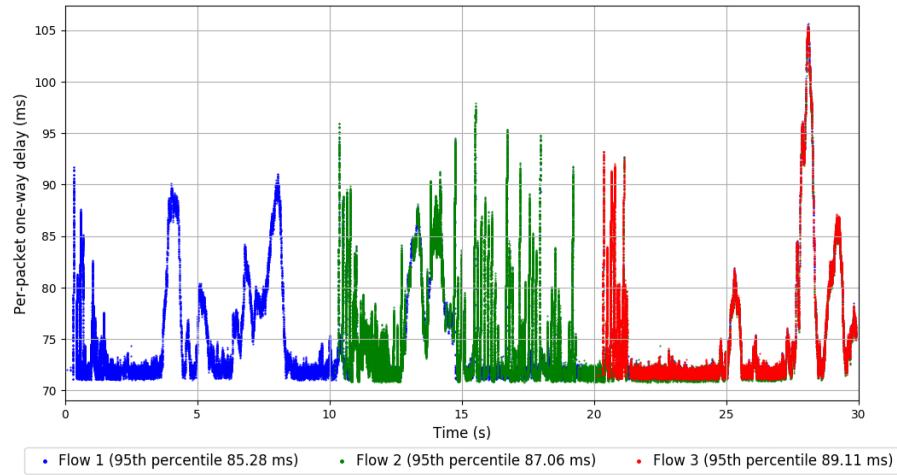
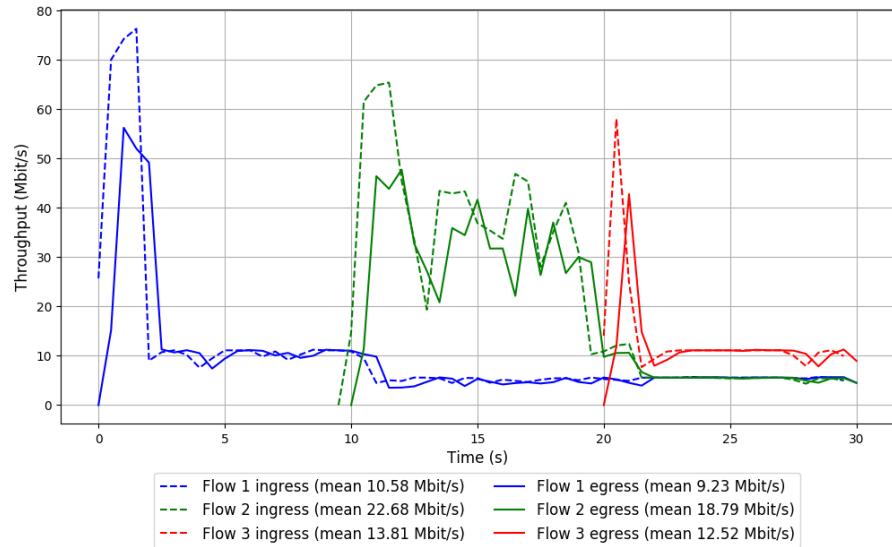


Run 5: Statistics of TaoVA-100x

```
Start at: 2018-12-20 10:00:12
End at: 2018-12-20 10:00:42
Local clock offset: 5.881 ms
Remote clock offset: 48.848 ms

# Below is generated by plot.py at 2018-12-20 10:11:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 25.84 Mbit/s
95th percentile per-packet one-way delay: 86.801 ms
Loss rate: 14.97%
-- Flow 1:
Average throughput: 9.23 Mbit/s
95th percentile per-packet one-way delay: 85.278 ms
Loss rate: 13.14%
-- Flow 2:
Average throughput: 18.79 Mbit/s
95th percentile per-packet one-way delay: 87.059 ms
Loss rate: 17.64%
-- Flow 3:
Average throughput: 12.52 Mbit/s
95th percentile per-packet one-way delay: 89.109 ms
Loss rate: 10.39%
```

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

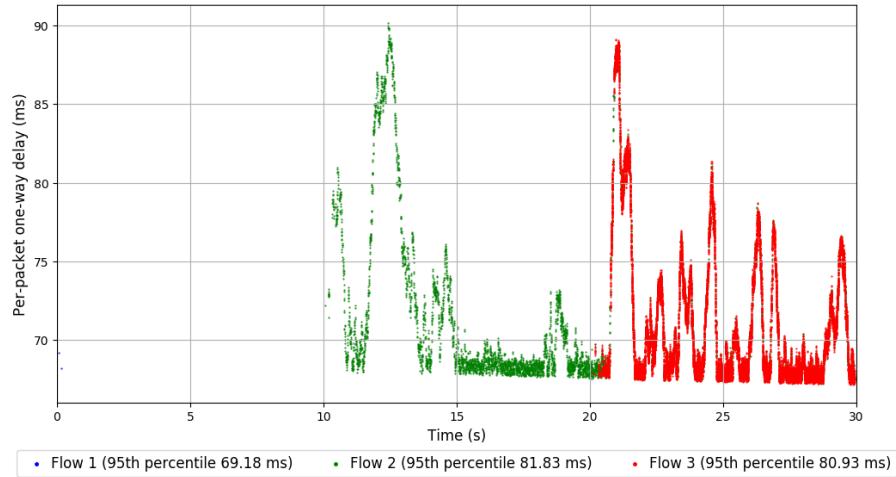
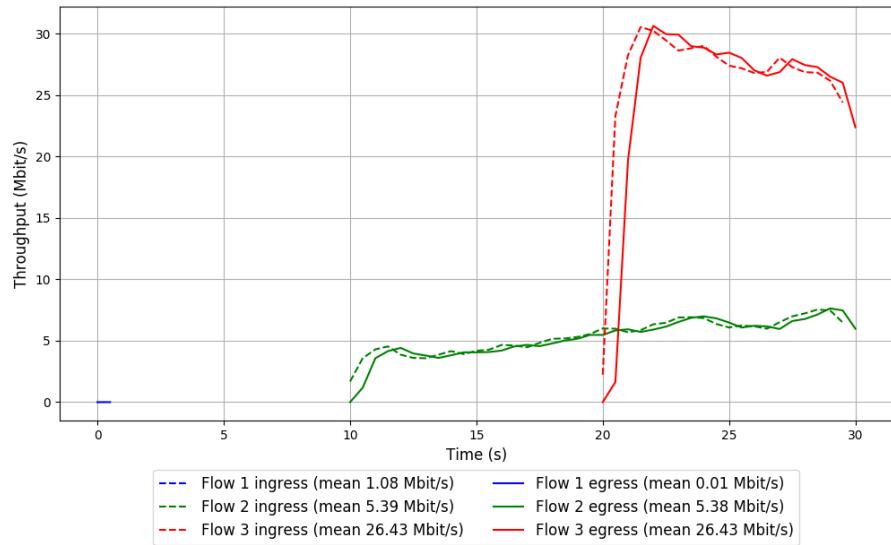


Run 1: Statistics of TCP Vegas

```
Start at: 2018-12-20 08:08:13
End at: 2018-12-20 08:08:43
Local clock offset: 6.544 ms
Remote clock offset: -23.883 ms

# Below is generated by plot.py at 2018-12-20 10:11:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.29 Mbit/s
95th percentile per-packet one-way delay: 81.100 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 69.180 ms
Loss rate: 98.79%
-- Flow 2:
Average throughput: 5.38 Mbit/s
95th percentile per-packet one-way delay: 81.828 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 26.43 Mbit/s
95th percentile per-packet one-way delay: 80.926 ms
Loss rate: 1.12%
```

Run 1: Report of TCP Vegas — Data Link

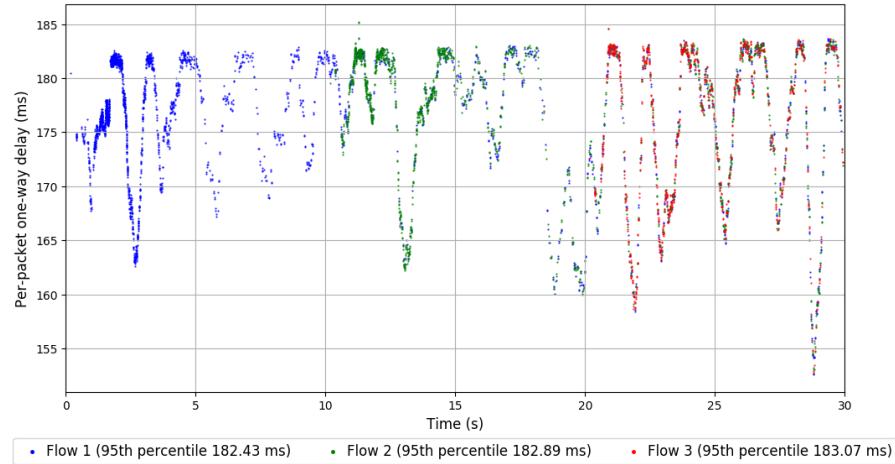
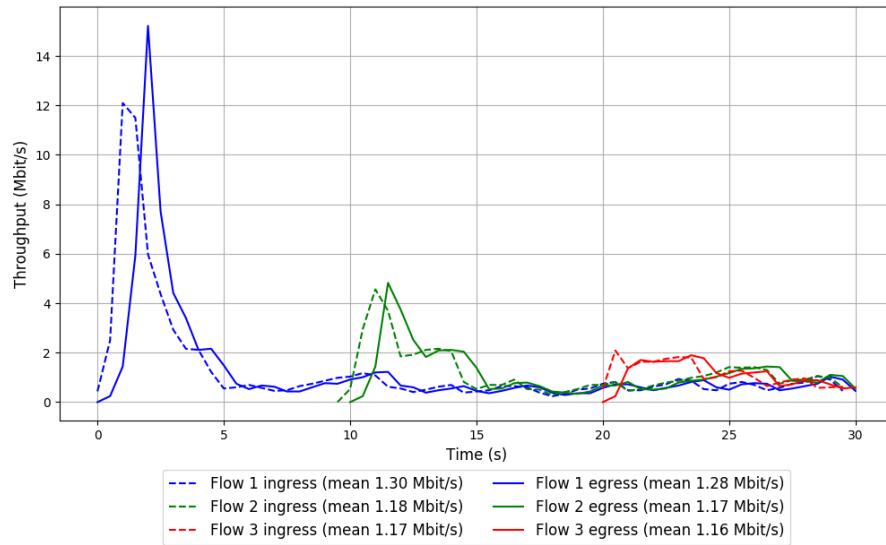


Run 2: Statistics of TCP Vegas

```
Start at: 2018-12-20 08:33:23
End at: 2018-12-20 08:33:53
Local clock offset: 17.969 ms
Remote clock offset: 29.728 ms

# Below is generated by plot.py at 2018-12-20 10:11:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.44 Mbit/s
95th percentile per-packet one-way delay: 182.793 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 182.433 ms
Loss rate: 2.16%
-- Flow 2:
Average throughput: 1.17 Mbit/s
95th percentile per-packet one-way delay: 182.889 ms
Loss rate: 1.73%
-- Flow 3:
Average throughput: 1.16 Mbit/s
95th percentile per-packet one-way delay: 183.069 ms
Loss rate: 2.07%
```

Run 2: Report of TCP Vegas — Data Link

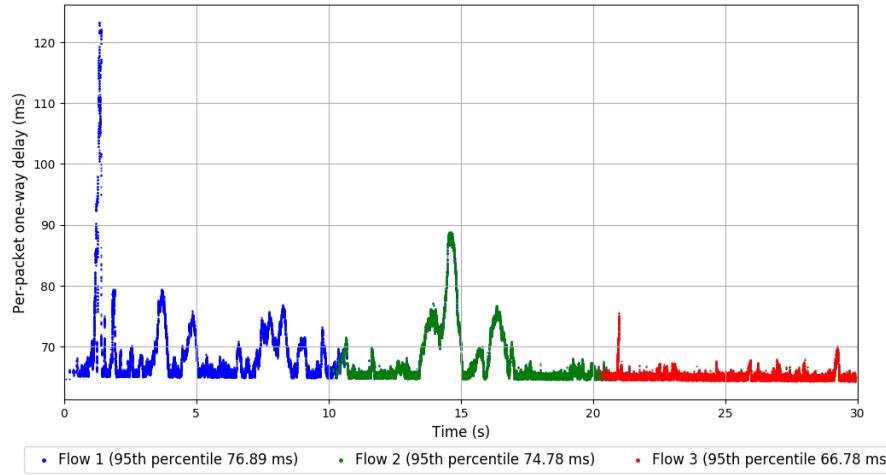
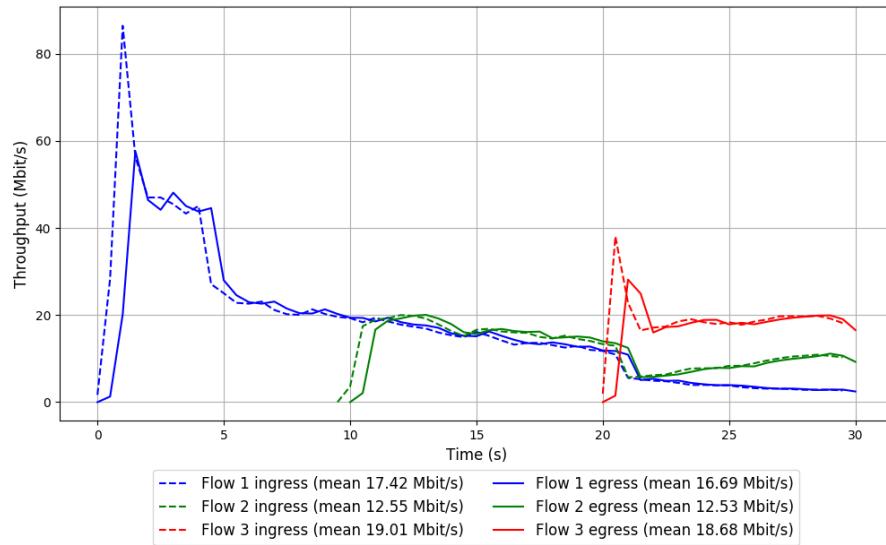


Run 3: Statistics of TCP Vegas

```
Start at: 2018-12-20 09:02:16
End at: 2018-12-20 09:02:46
Local clock offset: 22.222 ms
Remote clock offset: 48.795 ms

# Below is generated by plot.py at 2018-12-20 10:11:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.17 Mbit/s
95th percentile per-packet one-way delay: 75.373 ms
Loss rate: 3.21%
-- Flow 1:
Average throughput: 16.69 Mbit/s
95th percentile per-packet one-way delay: 76.893 ms
Loss rate: 4.56%
-- Flow 2:
Average throughput: 12.53 Mbit/s
95th percentile per-packet one-way delay: 74.781 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 18.68 Mbit/s
95th percentile per-packet one-way delay: 66.780 ms
Loss rate: 2.79%
```

Run 3: Report of TCP Vegas — Data Link

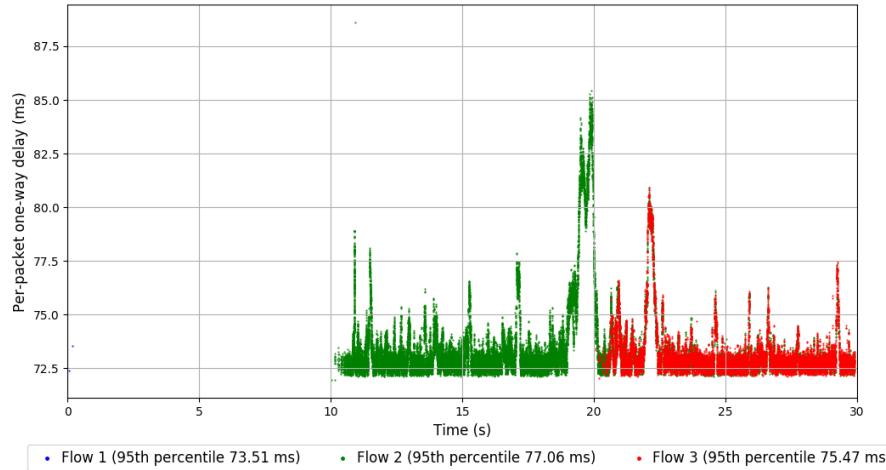
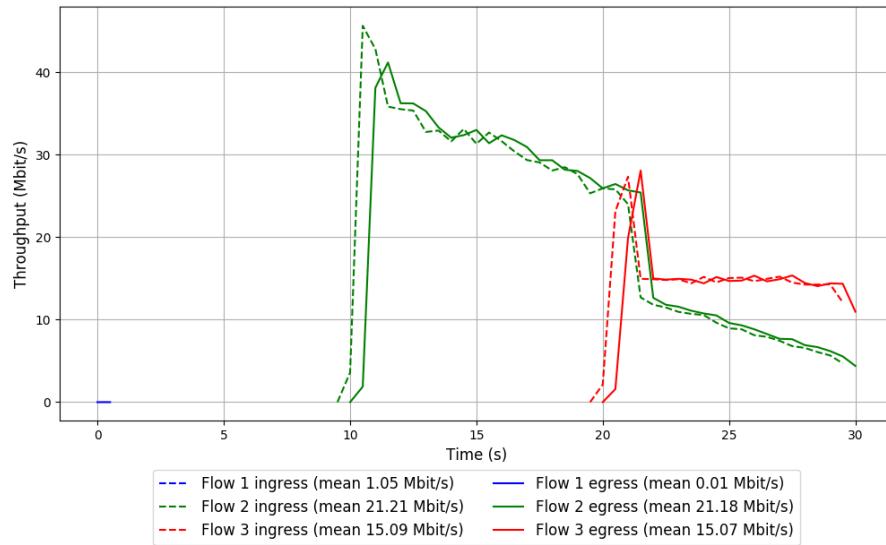


Run 4: Statistics of TCP Vegas

```
Start at: 2018-12-20 09:26:14
End at: 2018-12-20 09:26:44
Local clock offset: 5.644 ms
Remote clock offset: 26.784 ms

# Below is generated by plot.py at 2018-12-20 10:11:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.07 Mbit/s
95th percentile per-packet one-way delay: 76.530 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 73.513 ms
Loss rate: 98.79%
-- Flow 2:
Average throughput: 21.18 Mbit/s
95th percentile per-packet one-way delay: 77.060 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 15.07 Mbit/s
95th percentile per-packet one-way delay: 75.471 ms
Loss rate: 1.32%
```

Run 4: Report of TCP Vegas — Data Link

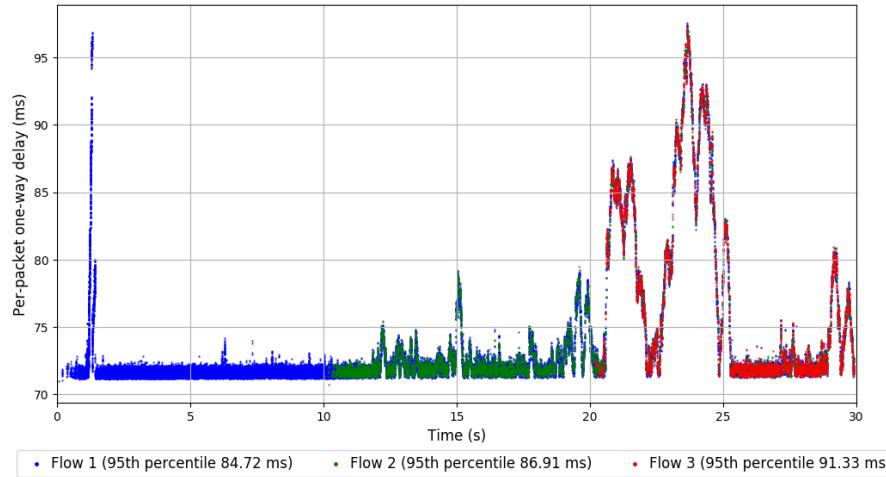
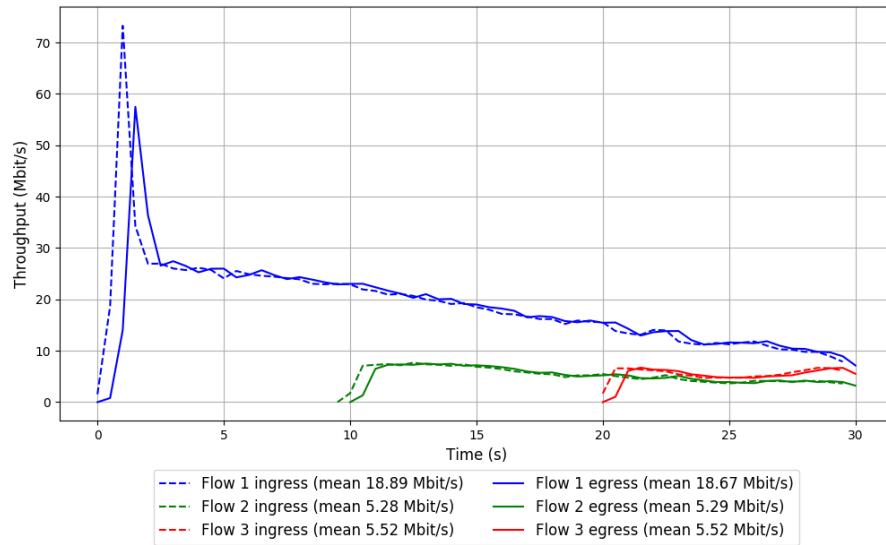


Run 5: Statistics of TCP Vegas

```
Start at: 2018-12-20 09:58:57
End at: 2018-12-20 09:59:27
Local clock offset: 6.436 ms
Remote clock offset: 49.346 ms

# Below is generated by plot.py at 2018-12-20 10:11:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.00 Mbit/s
95th percentile per-packet one-way delay: 86.099 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 18.67 Mbit/s
95th percentile per-packet one-way delay: 84.721 ms
Loss rate: 1.54%
-- Flow 2:
Average throughput: 5.29 Mbit/s
95th percentile per-packet one-way delay: 86.907 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 5.52 Mbit/s
95th percentile per-packet one-way delay: 91.326 ms
Loss rate: 1.42%
```

Run 5: Report of TCP Vegas — Data Link

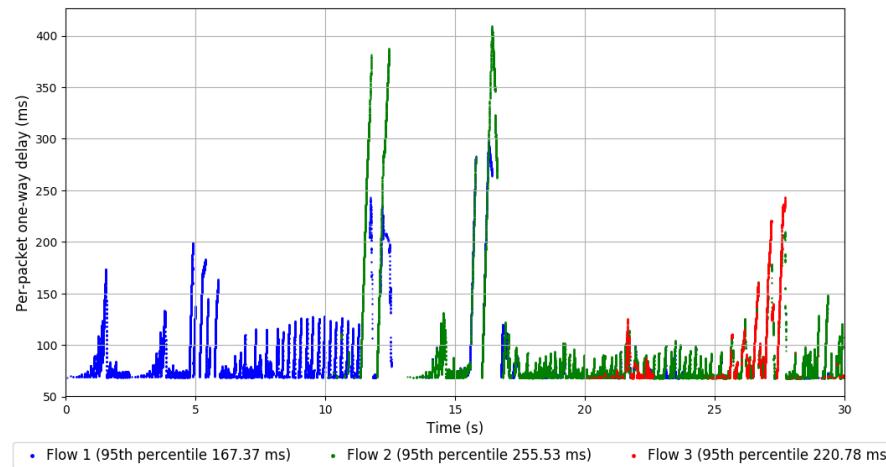
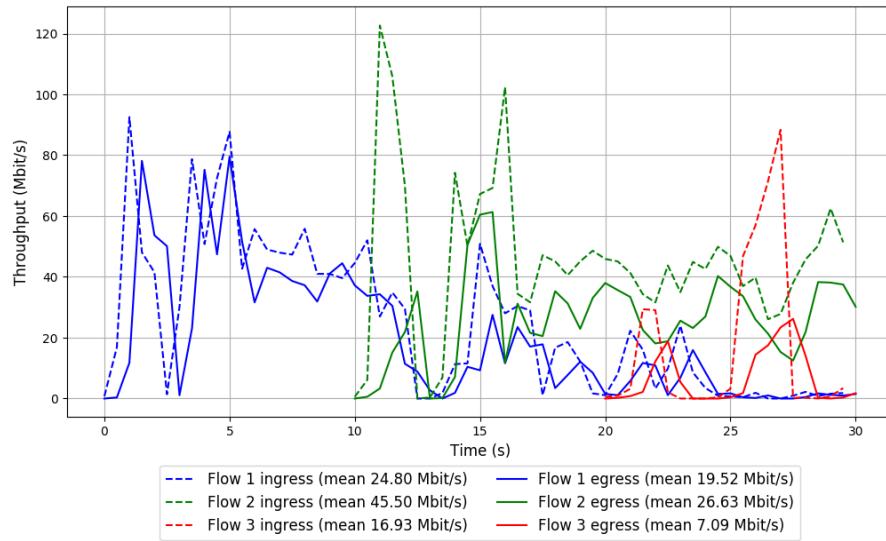


Run 1: Statistics of Verus

```
Start at: 2018-12-20 08:03:09
End at: 2018-12-20 08:03:39
Local clock offset: 3.092 ms
Remote clock offset: -15.269 ms

# Below is generated by plot.py at 2018-12-20 10:11:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.55 Mbit/s
95th percentile per-packet one-way delay: 183.821 ms
Loss rate: 34.96%
-- Flow 1:
Average throughput: 19.52 Mbit/s
95th percentile per-packet one-way delay: 167.366 ms
Loss rate: 21.63%
-- Flow 2:
Average throughput: 26.63 Mbit/s
95th percentile per-packet one-way delay: 255.527 ms
Loss rate: 41.53%
-- Flow 3:
Average throughput: 7.09 Mbit/s
95th percentile per-packet one-way delay: 220.775 ms
Loss rate: 58.58%
```

Run 1: Report of Verus — Data Link

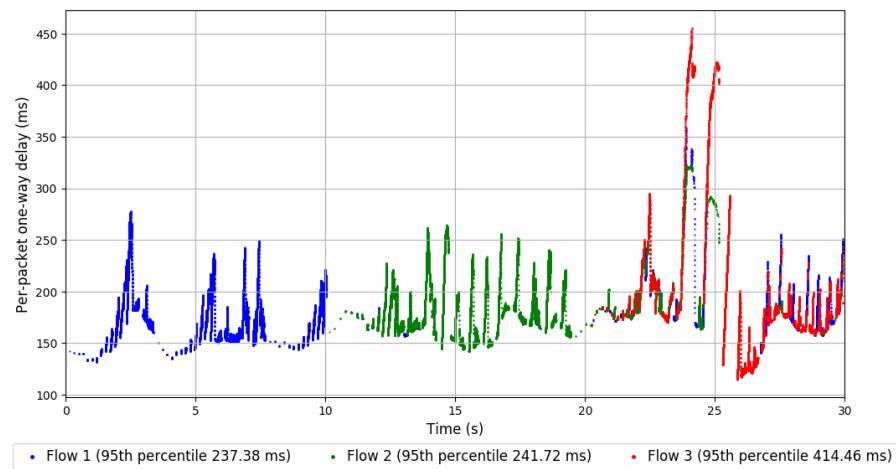
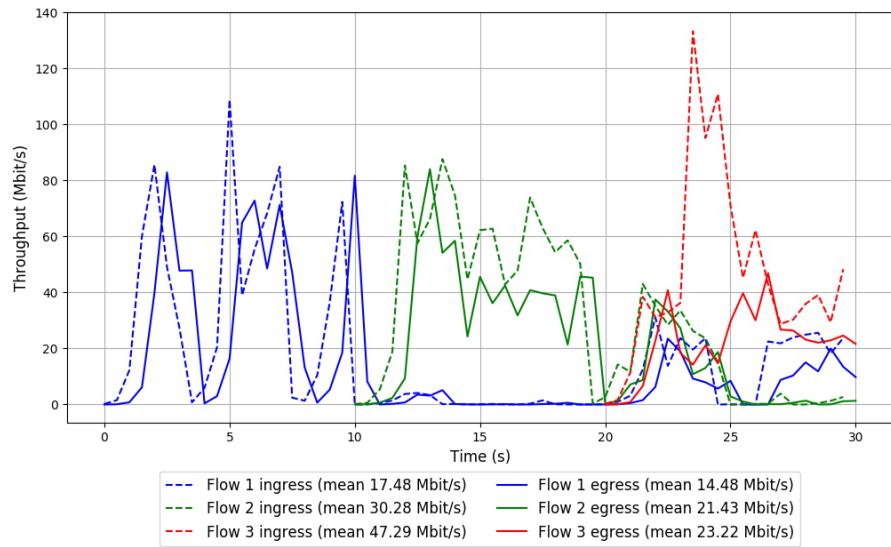


Run 2: Statistics of Verus

```
Start at: 2018-12-20 08:27:17
End at: 2018-12-20 08:27:47
Local clock offset: 17.12 ms
Remote clock offset: 2.431 ms

# Below is generated by plot.py at 2018-12-20 10:11:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.30 Mbit/s
95th percentile per-packet one-way delay: 258.635 ms
Loss rate: 31.80%
-- Flow 1:
Average throughput: 14.48 Mbit/s
95th percentile per-packet one-way delay: 237.378 ms
Loss rate: 17.67%
-- Flow 2:
Average throughput: 21.43 Mbit/s
95th percentile per-packet one-way delay: 241.722 ms
Loss rate: 29.37%
-- Flow 3:
Average throughput: 23.22 Mbit/s
95th percentile per-packet one-way delay: 414.464 ms
Loss rate: 50.97%
```

Run 2: Report of Verus — Data Link

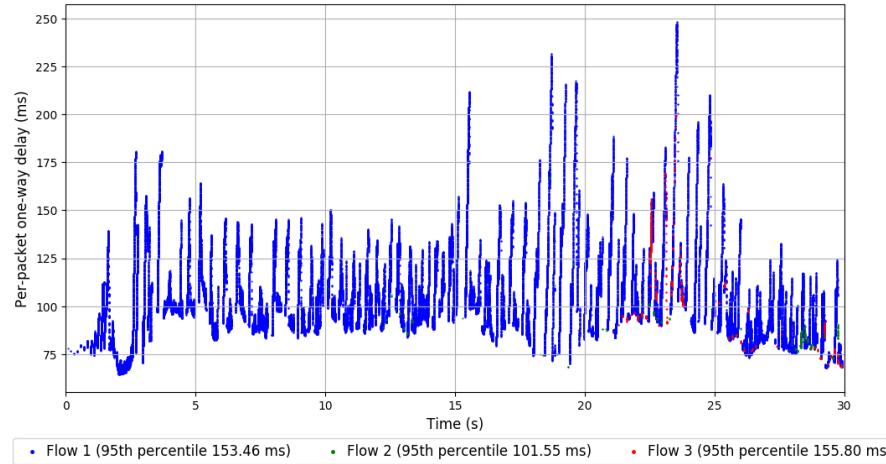
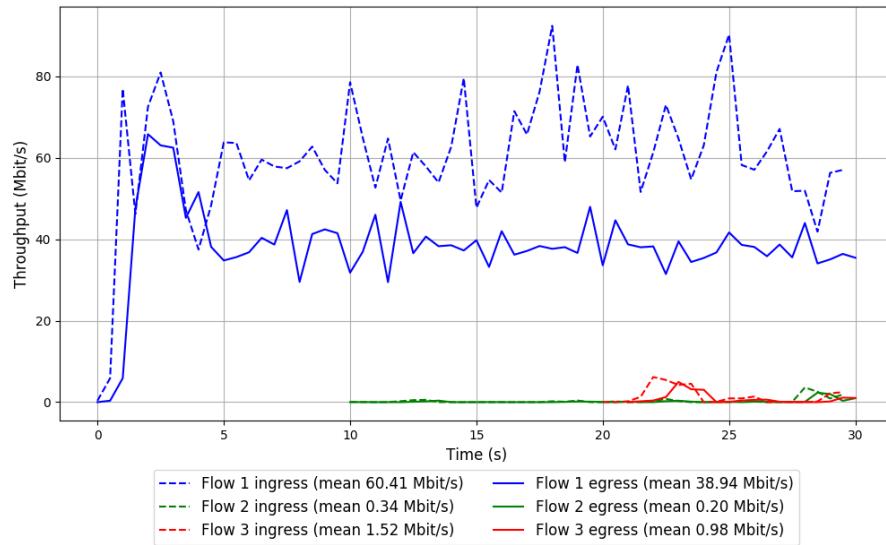


Run 3: Statistics of Verus

```
Start at: 2018-12-20 08:57:12
End at: 2018-12-20 08:57:42
Local clock offset: 21.57 ms
Remote clock offset: 60.163 ms

# Below is generated by plot.py at 2018-12-20 10:11:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.36 Mbit/s
95th percentile per-packet one-way delay: 153.416 ms
Loss rate: 35.86%
-- Flow 1:
Average throughput: 38.94 Mbit/s
95th percentile per-packet one-way delay: 153.457 ms
Loss rate: 35.79%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 101.554 ms
Loss rate: 40.64%
-- Flow 3:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 155.796 ms
Loss rate: 42.96%
```

Run 3: Report of Verus — Data Link

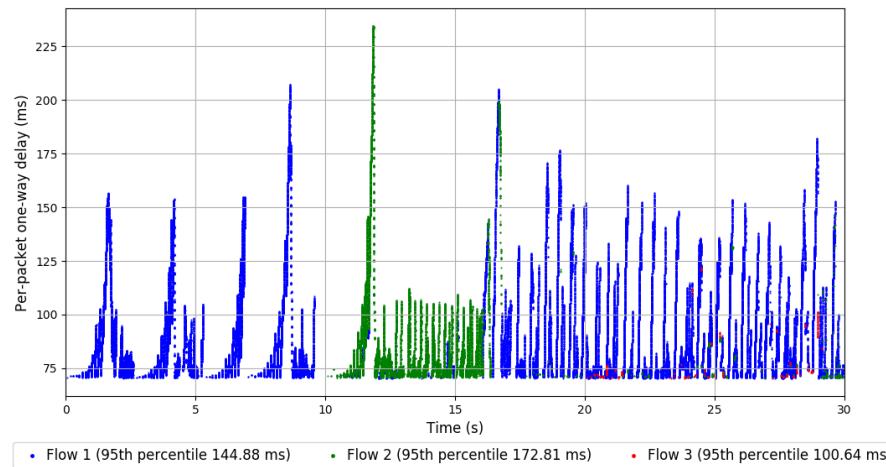
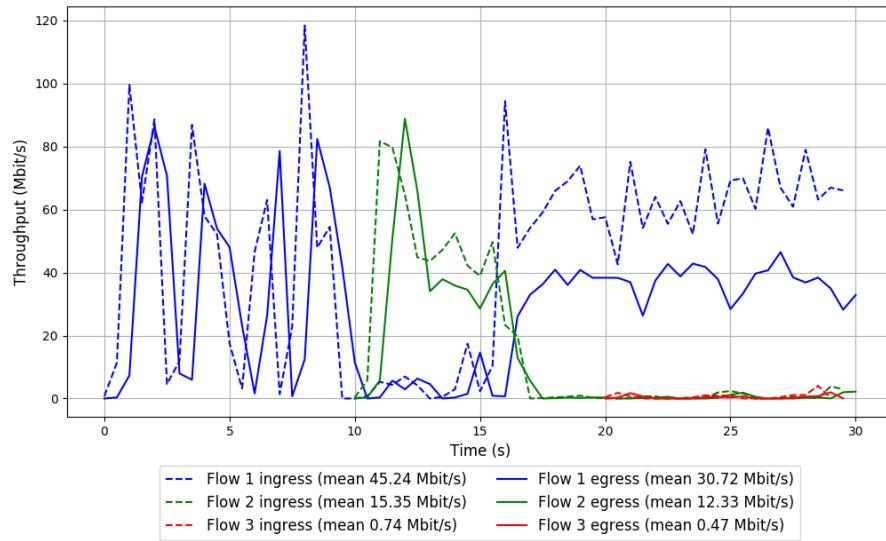


Run 4: Statistics of Verus

```
Start at: 2018-12-20 09:21:00
End at: 2018-12-20 09:21:30
Local clock offset: 7.382 ms
Remote clock offset: 29.781 ms

# Below is generated by plot.py at 2018-12-20 10:11:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.05 Mbit/s
95th percentile per-packet one-way delay: 146.728 ms
Loss rate: 30.21%
-- Flow 1:
Average throughput: 30.72 Mbit/s
95th percentile per-packet one-way delay: 144.884 ms
Loss rate: 32.45%
-- Flow 2:
Average throughput: 12.33 Mbit/s
95th percentile per-packet one-way delay: 172.808 ms
Loss rate: 20.14%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 100.636 ms
Loss rate: 36.75%
```

Run 4: Report of Verus — Data Link

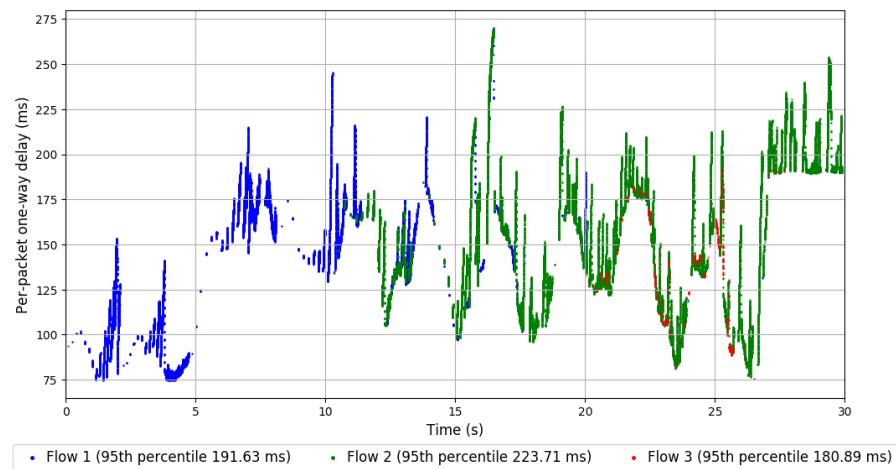
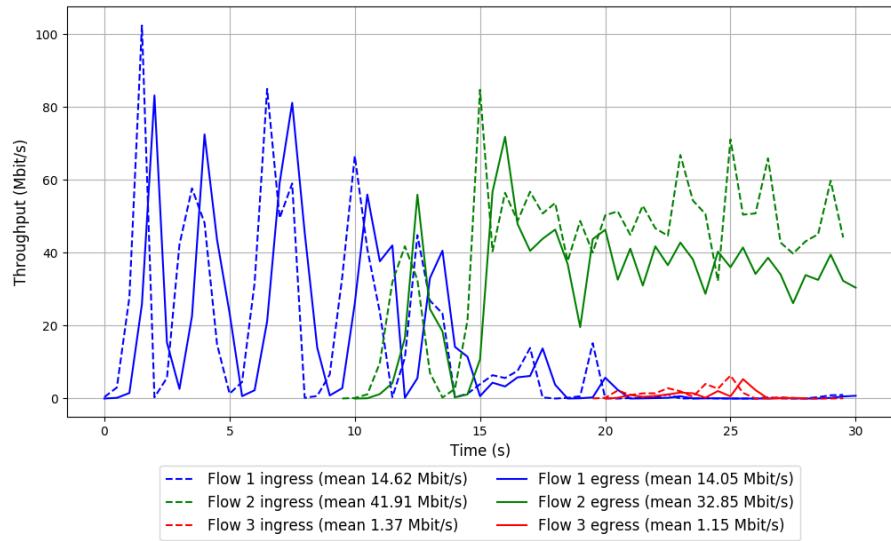


Run 5: Statistics of Verus

```
Start at: 2018-12-20 09:49:52
End at: 2018-12-20 09:50:22
Local clock offset: 5.861 ms
Remote clock offset: 42.943 ms

# Below is generated by plot.py at 2018-12-20 10:11:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.07 Mbit/s
95th percentile per-packet one-way delay: 214.697 ms
Loss rate: 16.43%
-- Flow 1:
Average throughput: 14.05 Mbit/s
95th percentile per-packet one-way delay: 191.630 ms
Loss rate: 4.36%
-- Flow 2:
Average throughput: 32.85 Mbit/s
95th percentile per-packet one-way delay: 223.710 ms
Loss rate: 22.43%
-- Flow 3:
Average throughput: 1.15 Mbit/s
95th percentile per-packet one-way delay: 180.887 ms
Loss rate: 35.04%
```

Run 5: Report of Verus — Data Link

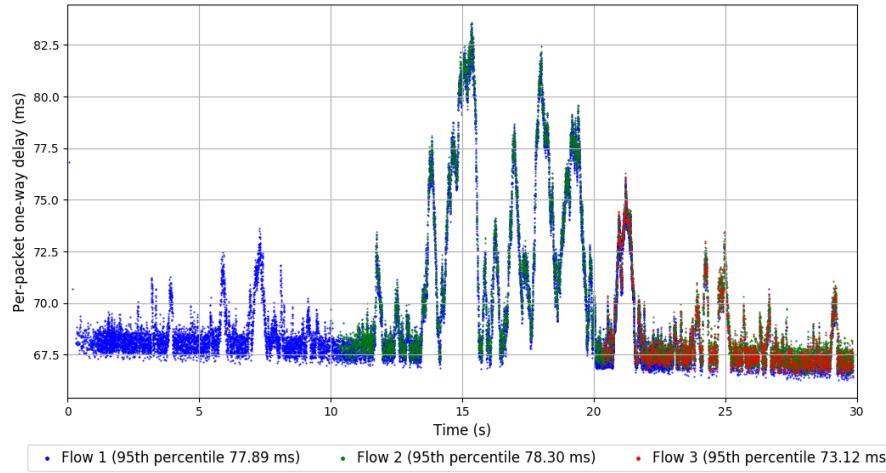
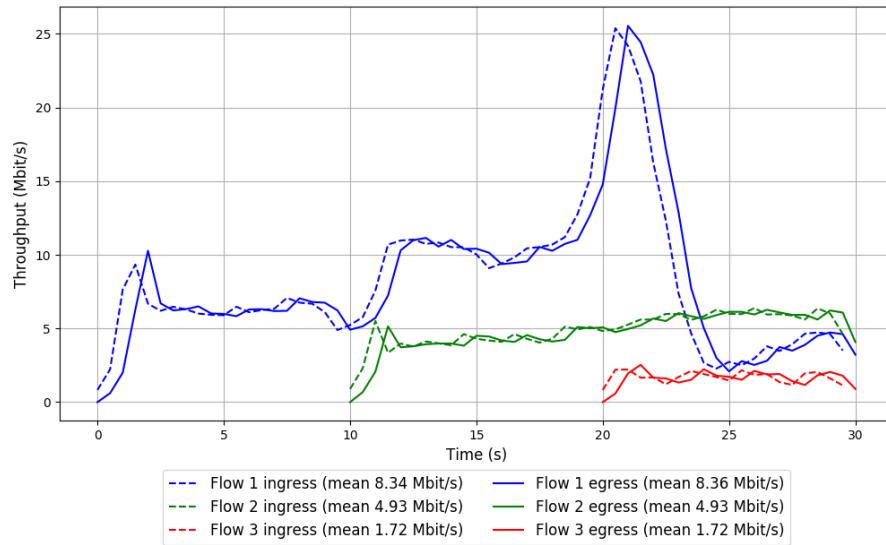


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2018-12-20 07:58:10
End at: 2018-12-20 07:58:40
Local clock offset: 3.093 ms
Remote clock offset: -4.664 ms

# Below is generated by plot.py at 2018-12-20 10:11:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.19 Mbit/s
95th percentile per-packet one-way delay: 77.895 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 8.36 Mbit/s
95th percentile per-packet one-way delay: 77.895 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 4.93 Mbit/s
95th percentile per-packet one-way delay: 78.299 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 1.72 Mbit/s
95th percentile per-packet one-way delay: 73.125 ms
Loss rate: 1.12%
```

Run 1: Report of PCC-Vivace — Data Link

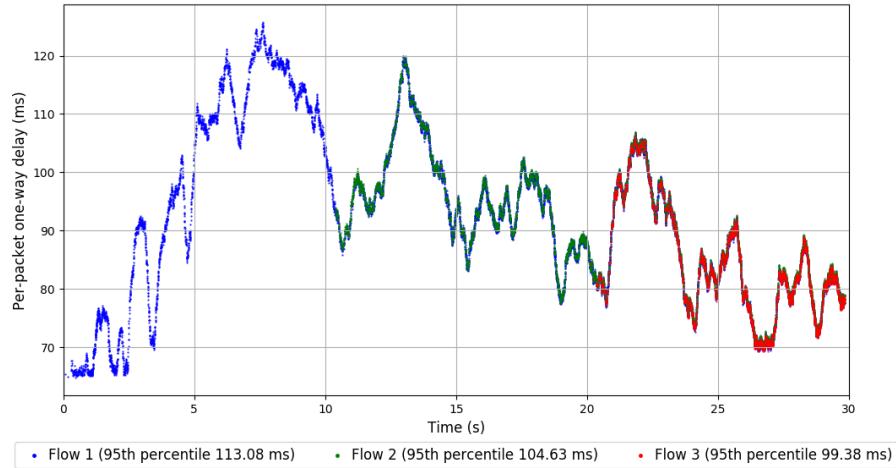
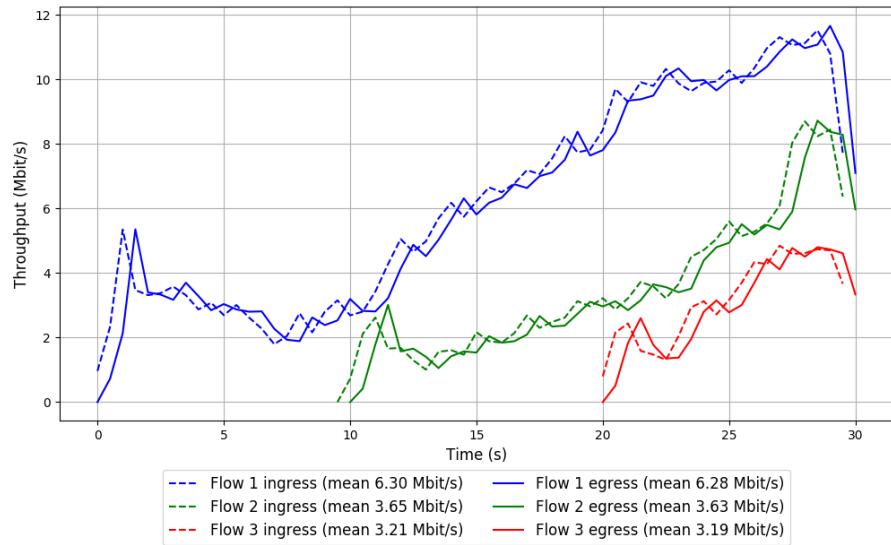


Run 2: Statistics of PCC-Vivace

```
Start at: 2018-12-20 08:22:14
End at: 2018-12-20 08:22:44
Local clock offset: 15.071 ms
Remote clock offset: -37.269 ms

# Below is generated by plot.py at 2018-12-20 10:11:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.73 Mbit/s
95th percentile per-packet one-way delay: 110.029 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 6.28 Mbit/s
95th percentile per-packet one-way delay: 113.082 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 3.63 Mbit/s
95th percentile per-packet one-way delay: 104.627 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 3.19 Mbit/s
95th percentile per-packet one-way delay: 99.382 ms
Loss rate: 1.70%
```

Run 2: Report of PCC-Vivace — Data Link

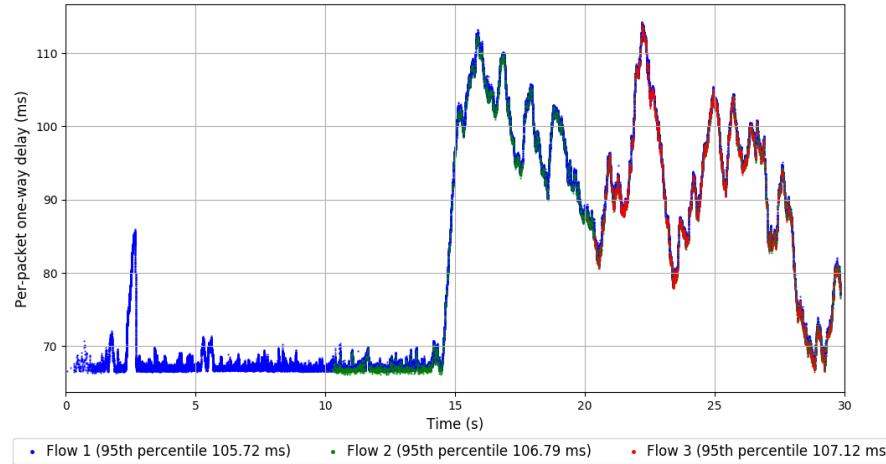
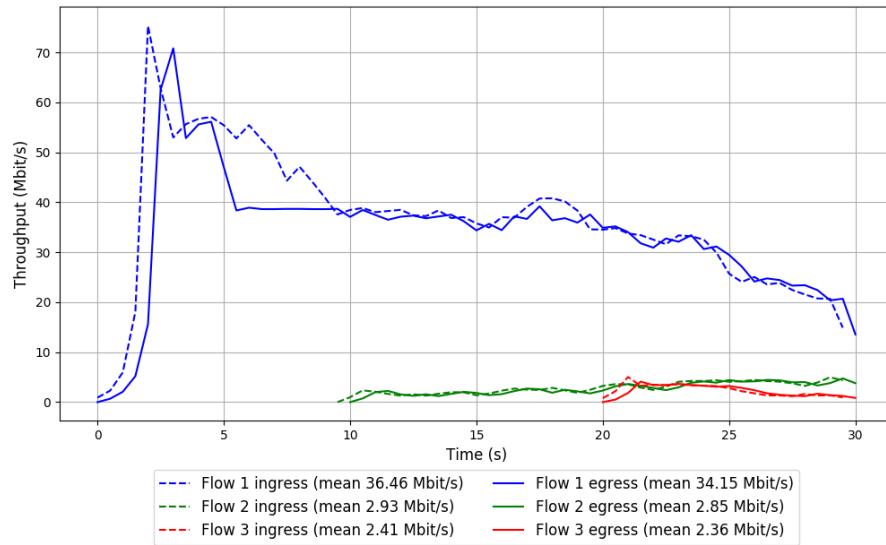


Run 3: Statistics of PCC-Vivace

```
Start at: 2018-12-20 08:52:11
End at: 2018-12-20 08:52:41
Local clock offset: 20.665 ms
Remote clock offset: 57.259 ms

# Below is generated by plot.py at 2018-12-20 10:11:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.81 Mbit/s
95th percentile per-packet one-way delay: 105.815 ms
Loss rate: 6.41%
-- Flow 1:
Average throughput: 34.15 Mbit/s
95th percentile per-packet one-way delay: 105.720 ms
Loss rate: 6.64%
-- Flow 2:
Average throughput: 2.85 Mbit/s
95th percentile per-packet one-way delay: 106.788 ms
Loss rate: 3.46%
-- Flow 3:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 107.116 ms
Loss rate: 3.02%
```

Run 3: Report of PCC-Vivace — Data Link

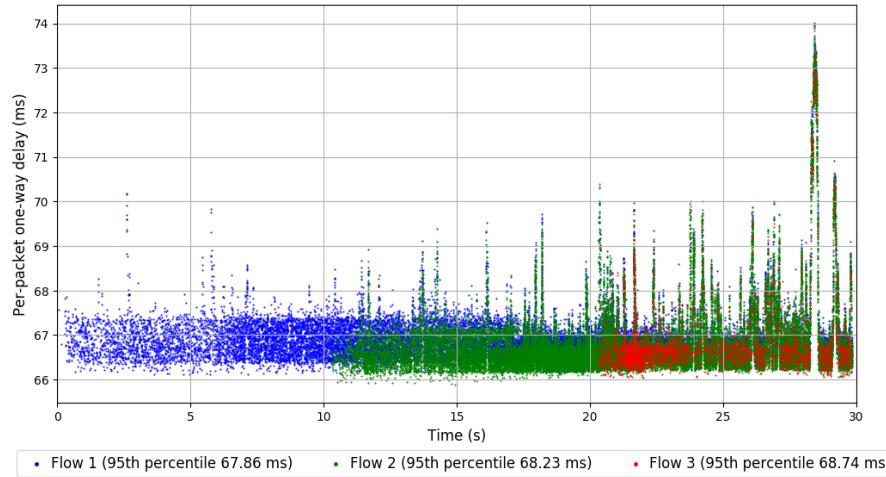
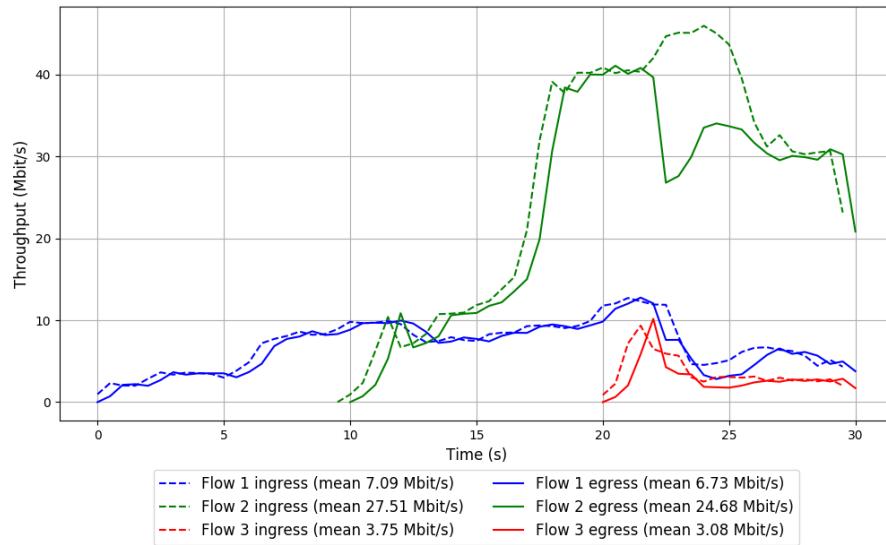


Run 4: Statistics of PCC-Vivace

```
Start at: 2018-12-20 09:16:02
End at: 2018-12-20 09:16:32
Local clock offset: 10.071 ms
Remote clock offset: 35.653 ms

# Below is generated by plot.py at 2018-12-20 10:11:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.13 Mbit/s
95th percentile per-packet one-way delay: 68.141 ms
Loss rate: 9.74%
-- Flow 1:
Average throughput: 6.73 Mbit/s
95th percentile per-packet one-way delay: 67.855 ms
Loss rate: 5.48%
-- Flow 2:
Average throughput: 24.68 Mbit/s
95th percentile per-packet one-way delay: 68.234 ms
Loss rate: 10.79%
-- Flow 3:
Average throughput: 3.08 Mbit/s
95th percentile per-packet one-way delay: 68.736 ms
Loss rate: 18.72%
```

Run 4: Report of PCC-Vivace — Data Link

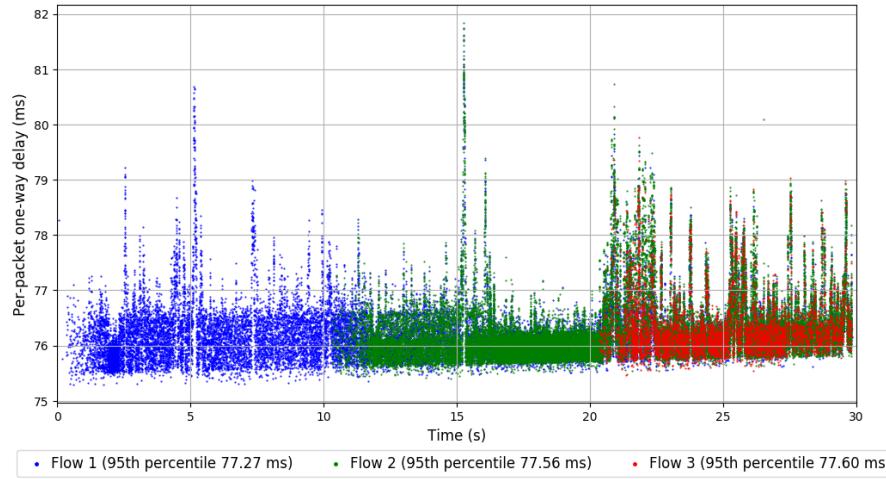
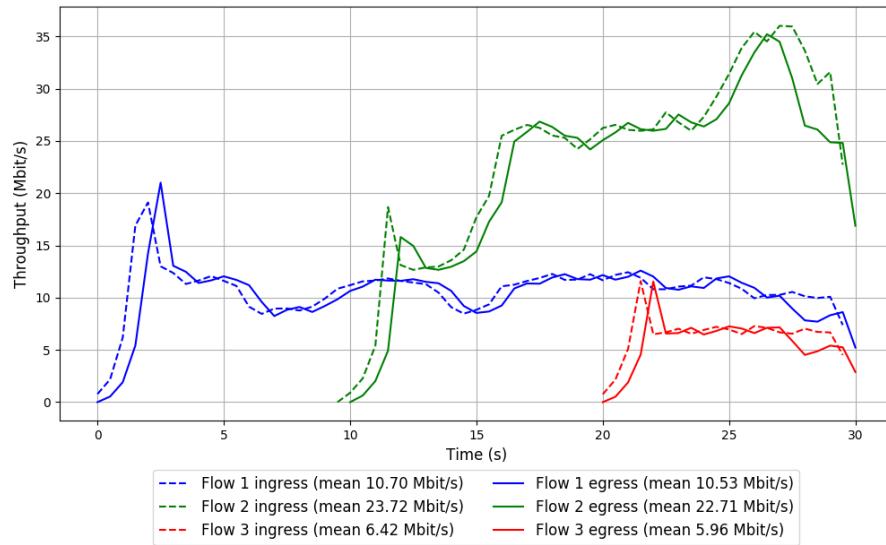


Run 5: Statistics of PCC-Vivace

```
Start at: 2018-12-20 09:40:25
End at: 2018-12-20 09:40:55
Local clock offset: 4.899 ms
Remote clock offset: 36.237 ms

# Below is generated by plot.py at 2018-12-20 10:11:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.56 Mbit/s
95th percentile per-packet one-way delay: 77.460 ms
Loss rate: 4.07%
-- Flow 1:
Average throughput: 10.53 Mbit/s
95th percentile per-packet one-way delay: 77.265 ms
Loss rate: 2.08%
-- Flow 2:
Average throughput: 22.71 Mbit/s
95th percentile per-packet one-way delay: 77.561 ms
Loss rate: 4.86%
-- Flow 3:
Average throughput: 5.96 Mbit/s
95th percentile per-packet one-way delay: 77.604 ms
Loss rate: 8.24%
```

Run 5: Report of PCC-Vivace — Data Link

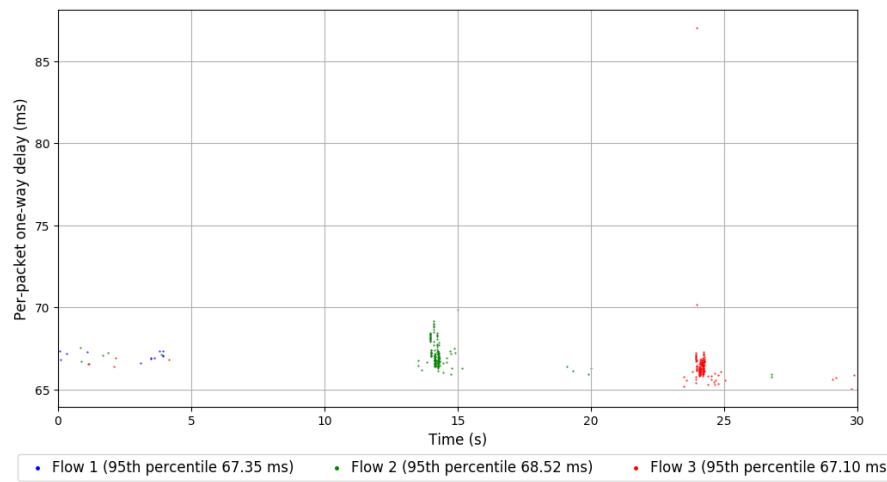
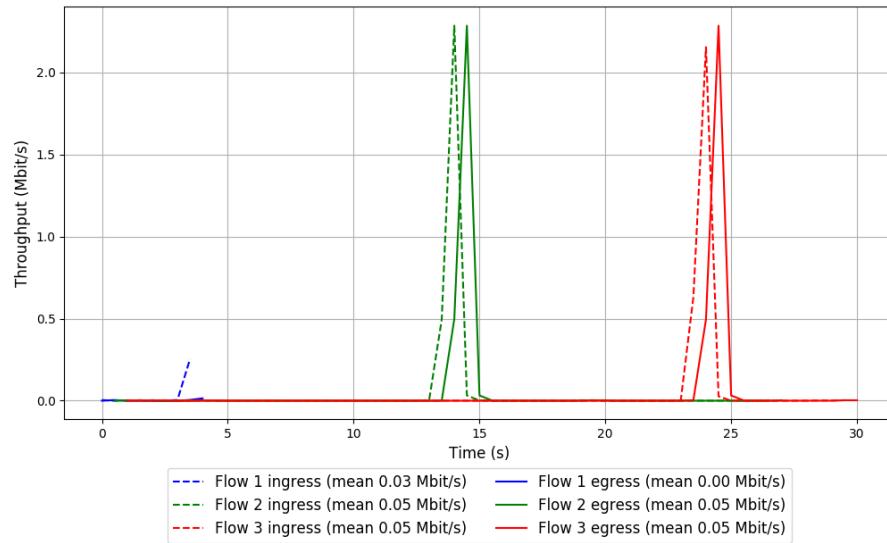


```
Run 1: Statistics of WebRTC media

Start at: 2018-12-20 07:55:43
End at: 2018-12-20 07:56:13
Local clock offset: 3.757 ms
Remote clock offset: 3.726 ms

# Below is generated by plot.py at 2018-12-20 10:11:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 68.356 ms
Loss rate: 4.05%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 67.350 ms
Loss rate: 90.59%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 68.515 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 67.098 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

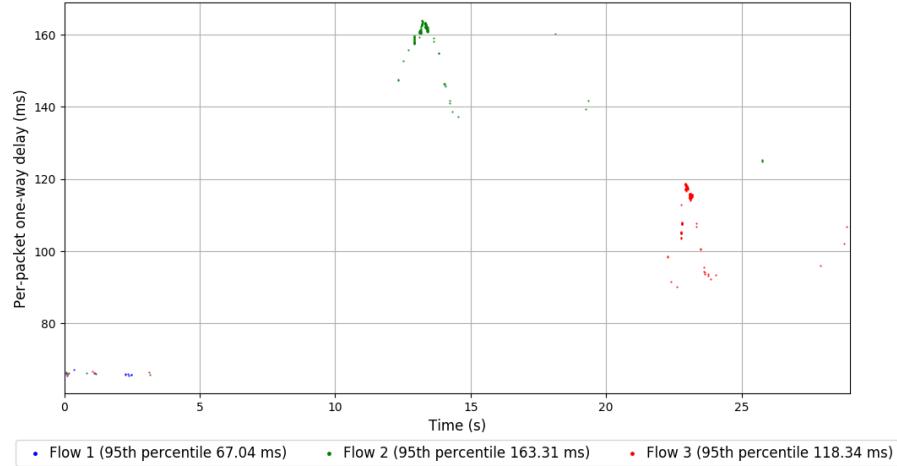
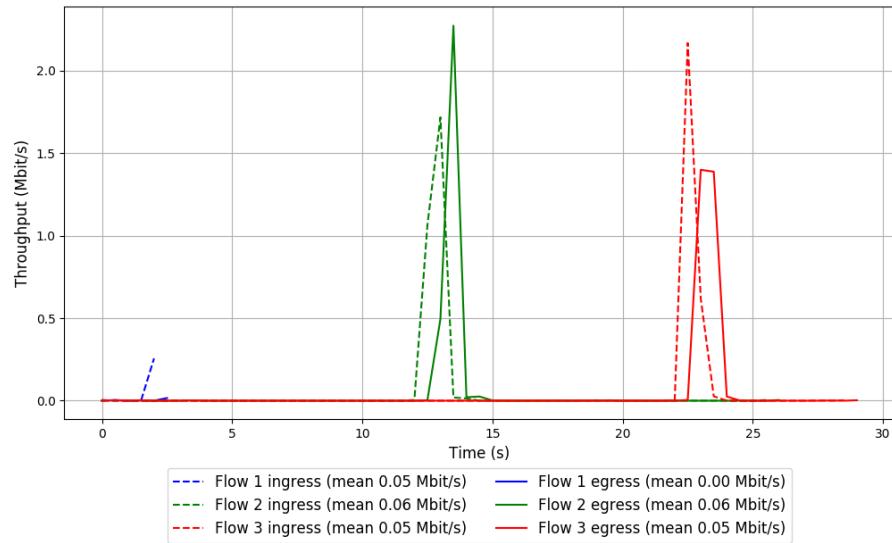


Run 2: Statistics of WebRTC media

```
Start at: 2018-12-20 08:19:42
End at: 2018-12-20 08:20:12
Local clock offset: 14.374 ms
Remote clock offset: -35.038 ms

# Below is generated by plot.py at 2018-12-20 10:11:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 163.005 ms
Loss rate: 4.05%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 67.037 ms
Loss rate: 91.65%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 163.305 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 118.337 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

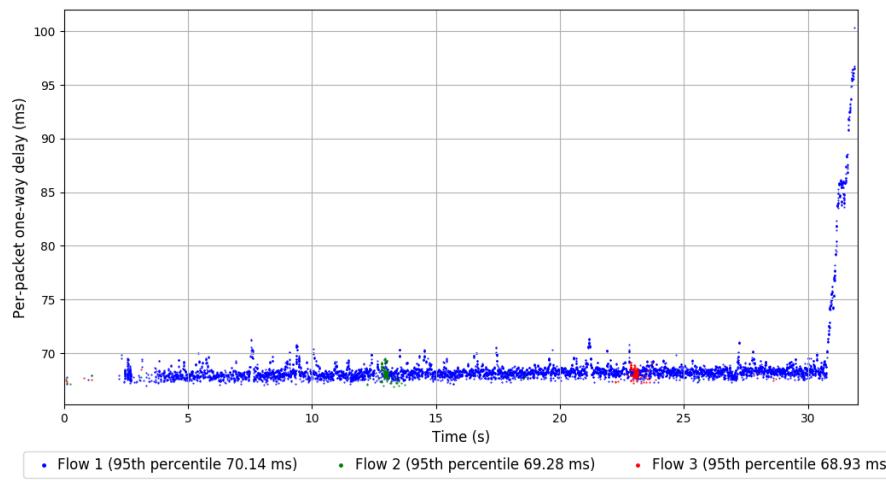
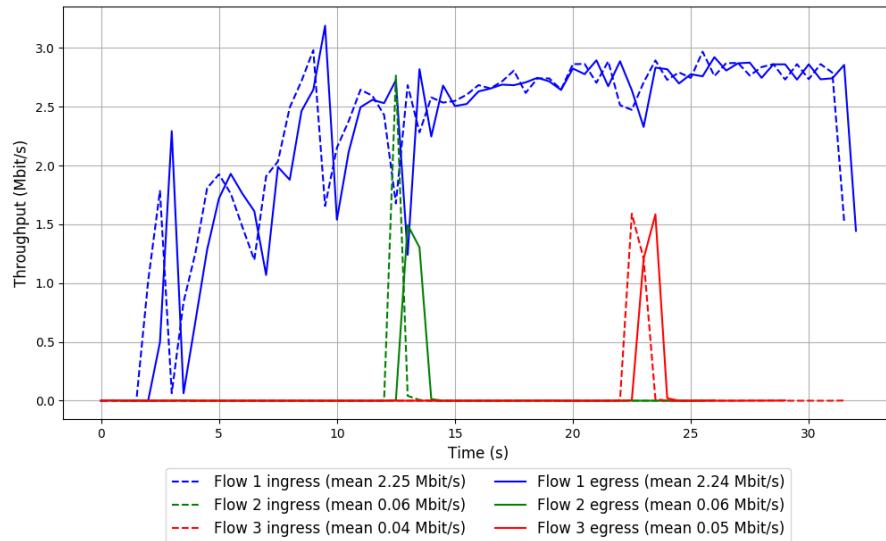


Run 3: Statistics of WebRTC media

```
Start at: 2018-12-20 08:49:43
End at: 2018-12-20 08:50:13
Local clock offset: 21.054 ms
Remote clock offset: 55.408 ms

# Below is generated by plot.py at 2018-12-20 10:11:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 70.035 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 70.136 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 69.279 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 68.929 ms
Loss rate: 0.05%
```

Run 3: Report of WebRTC media — Data Link

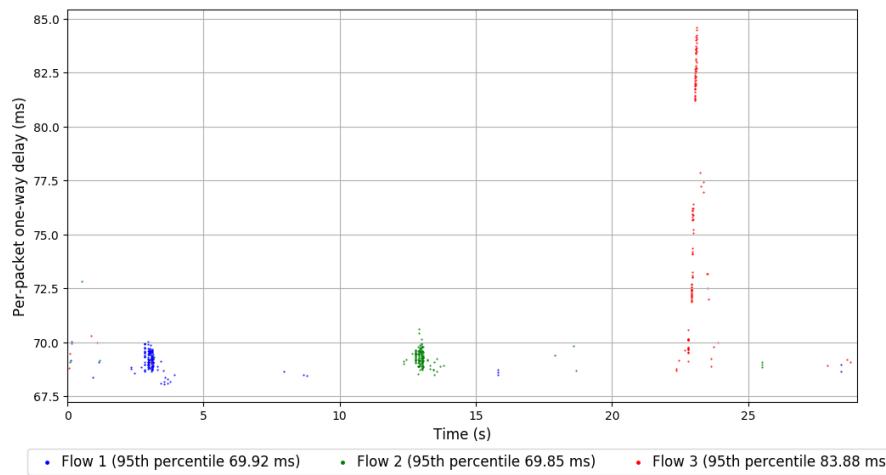
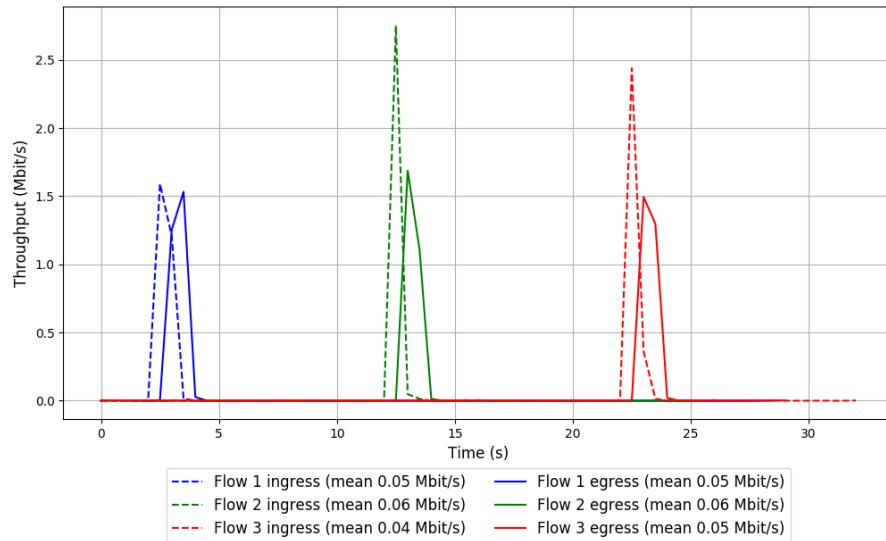


Run 4: Statistics of WebRTC media

```
Start at: 2018-12-20 09:13:35
End at: 2018-12-20 09:14:05
Local clock offset: 11.989 ms
Remote clock offset: 34.881 ms

# Below is generated by plot.py at 2018-12-20 10:11:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 82.722 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 69.924 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 69.851 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 83.884 ms
Loss rate: 0.05%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2018-12-20 09:37:56
End at: 2018-12-20 09:38:26
Local clock offset: 4.324 ms
Remote clock offset: 33.175 ms

# Below is generated by plot.py at 2018-12-20 10:11:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.99 Mbit/s
95th percentile per-packet one-way delay: 89.857 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 88.539 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 1.14 Mbit/s
95th percentile per-packet one-way delay: 90.902 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 78.663 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

