

Pantheon Report

Generated at 2019-12-11 18:24:20 (UTC).

Data path: Saudi Arabia on `enp2s0` (*remote*) → AWS India 2 on `ens5` (*local*).

Repeated the test of 24 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 `nets.org.sg` and have been applied to correct the timestamps in logs.

System info:

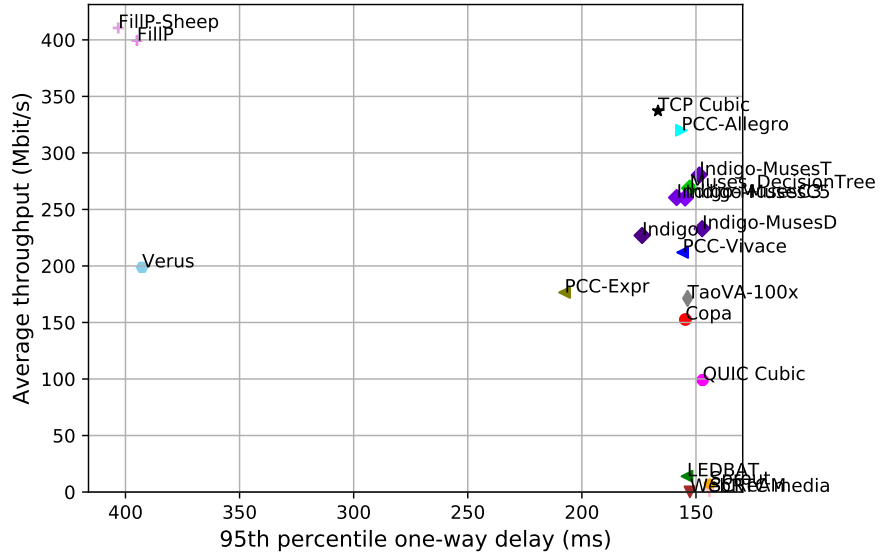
```
Linux 4.15.0-1054-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

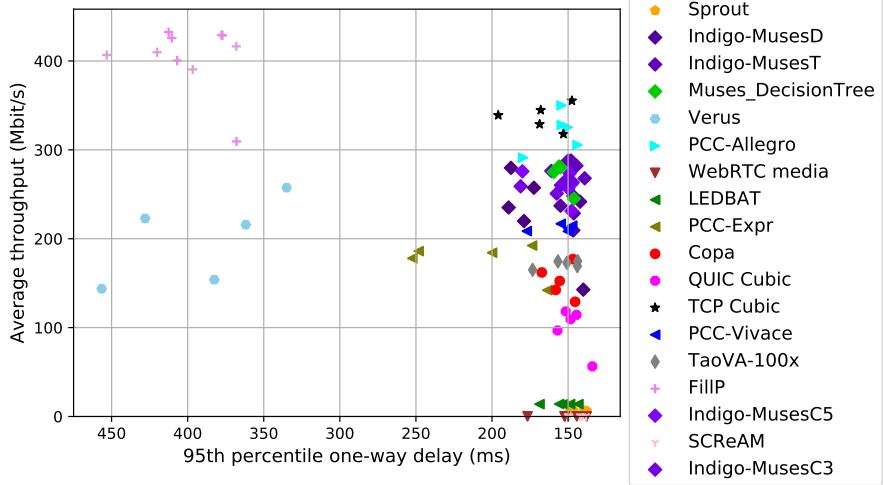
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 11c9498ecb1596b02ccd896791a02d03172af7ed
M helpers/__init__.pyc
M helpers/context.pyc
M helpers/utls.pyc
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
```

```
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from Saudi Arabia to AWS India 2, 5 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from Saudi Arabia to AWS India 2, 5 runs of 30s each per scheme
 3 flows with 10s interval between flows



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	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Copa	5	103.65	55.18	38.12	154.15	155.64	153.74	0.37	1.83	2.59
TCP Cubic	5	211.73	151.56	75.31	163.99	175.20	196.23	0.44	1.08	3.60
FillP	5	238.81	183.41	131.69	402.68	377.88	327.83	2.20	3.74	8.95
FillP-Sheep	5	257.12	176.98	117.90	388.85	401.11	342.81	1.80	6.29	10.73
Indigo	5	126.07	106.78	93.22	168.41	169.40	187.57	0.71	1.05	2.67
Indigo-MusesC3	5	174.23	124.94	39.43	158.48	158.68	155.82	0.07	0.90	6.98
Indigo-MusesC5	5	208.72	62.34	54.64	155.10	151.71	152.15	0.28	1.55	4.35
Indigo-MusesD	5	177.24	78.20	31.74	147.39	146.10	144.35	0.38	0.50	5.04
Indigo-MusesT	5	207.93	98.63	52.43	148.57	148.16	148.81	0.38	1.14	4.93
LEDBAT	5	9.12	5.91	2.83	153.92	153.95	153.96	1.32	2.02	4.08
Muses_DecisionTree	5	197.22	93.20	34.75	154.86	149.50	148.16	0.38	0.97	2.48
Muses_DecisionTreeH0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Muses_DecisionTreeR0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PCC-Allegro	5	272.76	64.64	13.67	156.55	155.59	155.69	0.86	1.14	2.00
PCC-Expr	5	159.80	21.71	7.25	215.73	152.57	152.66	0.68	1.21	2.32
QUIC Cubic	5	48.69	54.15	44.33	147.03	147.06	147.17	0.85	0.94	2.98
SReAM	5	0.22	0.22	0.22	144.04	143.99	144.16	0.64	1.03	1.91
Sprout	5	3.62	3.38	2.41	143.94	143.91	144.00	0.78	1.37	3.65
TaoVA-100x	5	103.62	73.88	57.10	153.15	154.06	155.10	0.40	0.95	2.42
TCP Vegas	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Verus	5	138.21	70.80	45.84	400.00	295.79	230.67	2.20	1.78	0.57
PCC-Vivace	5	177.34	39.76	25.48	155.87	155.78	155.73	0.61	1.67	2.77
WebRTC media	5	0.05	0.06	0.06	153.51	152.60	152.54	0.01	0.01	0.03

Run 1: Statistics of TCP BBR

Start at: 2019-12-11 15:12:32

End at: 2019-12-11 15:13:02

Local clock offset: 6.454 ms

Remote clock offset: -43.079 ms

Run 1: Report of TCP BBR — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of TCP BBR

Start at: 2019-12-11 15:47:35

End at: 2019-12-11 15:48:05

Local clock offset: 4.955 ms

Remote clock offset: -49.786 ms

Run 2: Report of TCP BBR — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of TCP BBR

Start at: 2019-12-11 16:22:48

End at: 2019-12-11 16:23:18

Local clock offset: 6.527 ms

Remote clock offset: -62.694 ms

Run 3: Report of TCP BBR — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of TCP BBR

Start at: 2019-12-11 16:57:30

End at: 2019-12-11 16:58:00

Local clock offset: 6.132 ms

Remote clock offset: -47.313 ms

Run 4: Report of TCP BBR — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of TCP BBR

Start at: 2019-12-11 17:32:32

End at: 2019-12-11 17:33:02

Local clock offset: 6.095 ms

Remote clock offset: -47.83 ms

Run 5: Report of TCP BBR — Data Link

Figure is missing

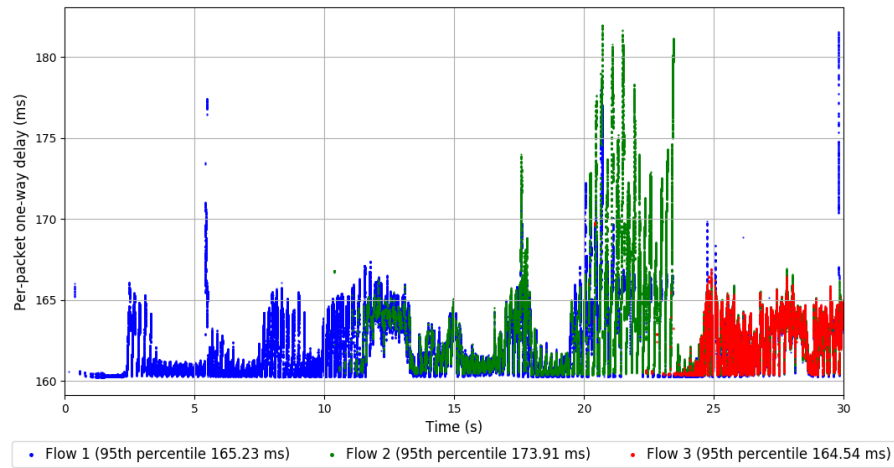
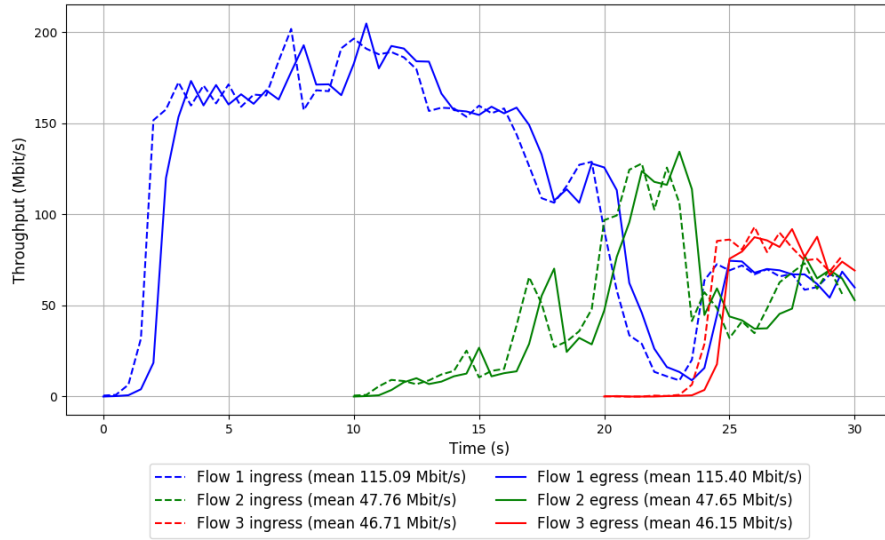
Figure is missing

Run 1: Statistics of Copa

Start at: 2019-12-11 15:06:50
End at: 2019-12-11 15:07:20
Local clock offset: 0.949 ms
Remote clock offset: -65.562 ms

```
# Below is generated by plot.py at 2019-12-11 17:52:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 162.06 Mbit/s
95th percentile per-packet one-way delay: 167.273 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 115.40 Mbit/s
95th percentile per-packet one-way delay: 165.232 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 47.65 Mbit/s
95th percentile per-packet one-way delay: 173.913 ms
Loss rate: 1.38%
-- Flow 3:
Average throughput: 46.15 Mbit/s
95th percentile per-packet one-way delay: 164.545 ms
Loss rate: 3.25%
```

Run 1: Report of Copa — Data Link

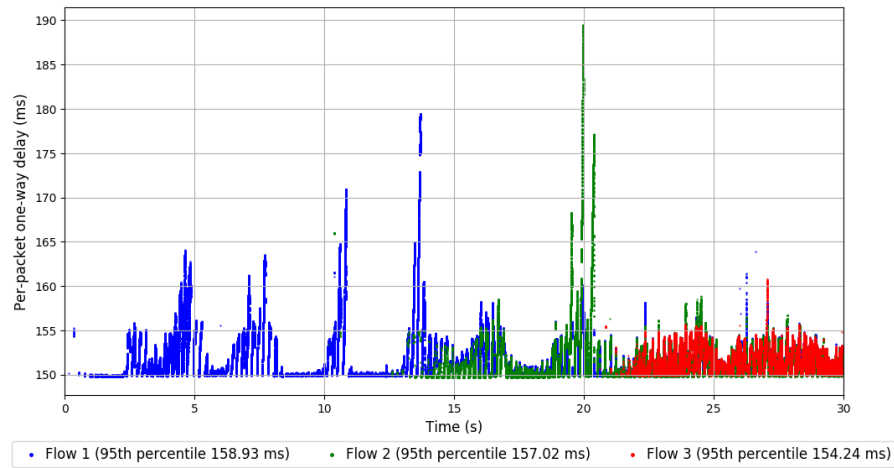
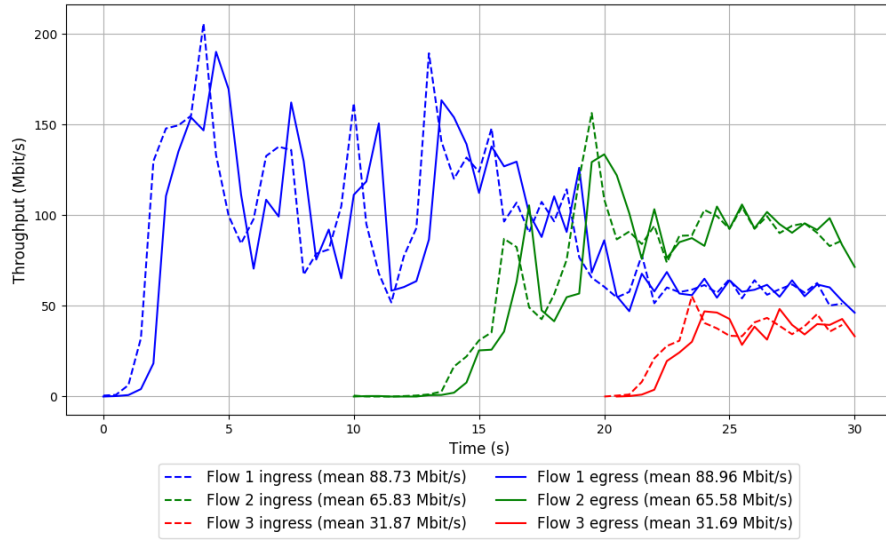


Run 2: Statistics of Copa

Start at: 2019-12-11 15:41:56
End at: 2019-12-11 15:42:26
Local clock offset: 6.835 ms
Remote clock offset: -48.803 ms

```
# Below is generated by plot.py at 2019-12-11 17:52:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 142.39 Mbit/s
95th percentile per-packet one-way delay: 158.116 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 88.96 Mbit/s
95th percentile per-packet one-way delay: 158.926 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 65.58 Mbit/s
95th percentile per-packet one-way delay: 157.019 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 31.69 Mbit/s
95th percentile per-packet one-way delay: 154.237 ms
Loss rate: 2.60%
```

Run 2: Report of Copa — Data Link

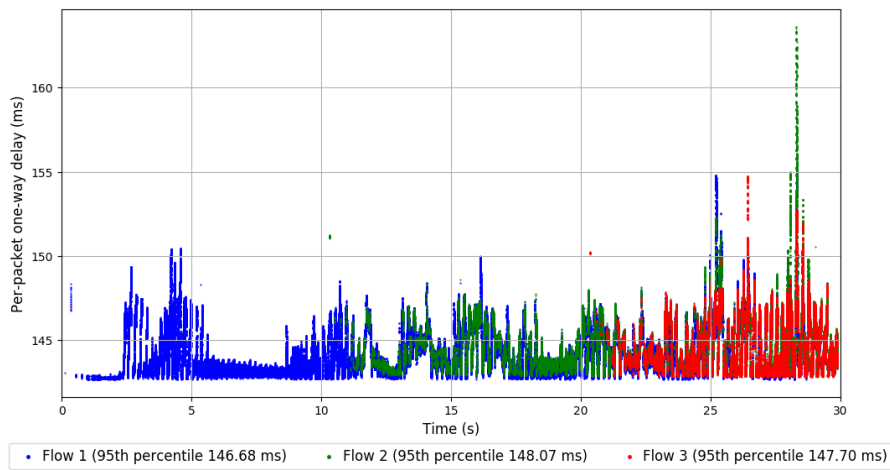
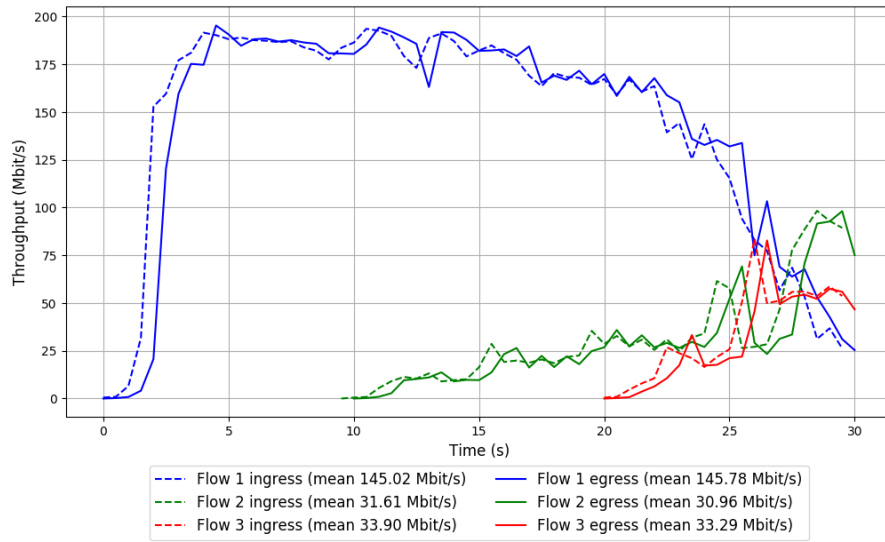


Run 3: Statistics of Copa

Start at: 2019-12-11 16:17:05
End at: 2019-12-11 16:17:35
Local clock offset: 1.47 ms
Remote clock offset: -45.776 ms

```
# Below is generated by plot.py at 2019-12-11 17:53:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 177.09 Mbit/s
95th percentile per-packet one-way delay: 146.876 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 145.78 Mbit/s
95th percentile per-packet one-way delay: 146.680 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 30.96 Mbit/s
95th percentile per-packet one-way delay: 148.073 ms
Loss rate: 3.05%
-- Flow 3:
Average throughput: 33.29 Mbit/s
95th percentile per-packet one-way delay: 147.703 ms
Loss rate: 3.80%
```

Run 3: Report of Copa — Data Link

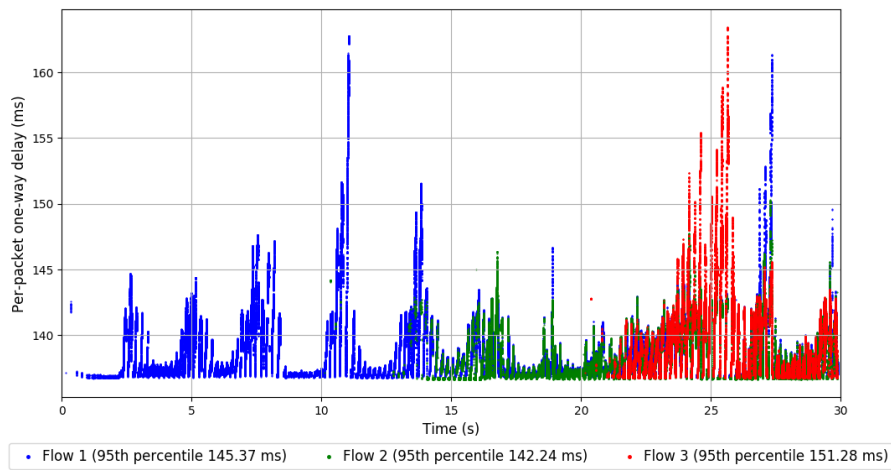
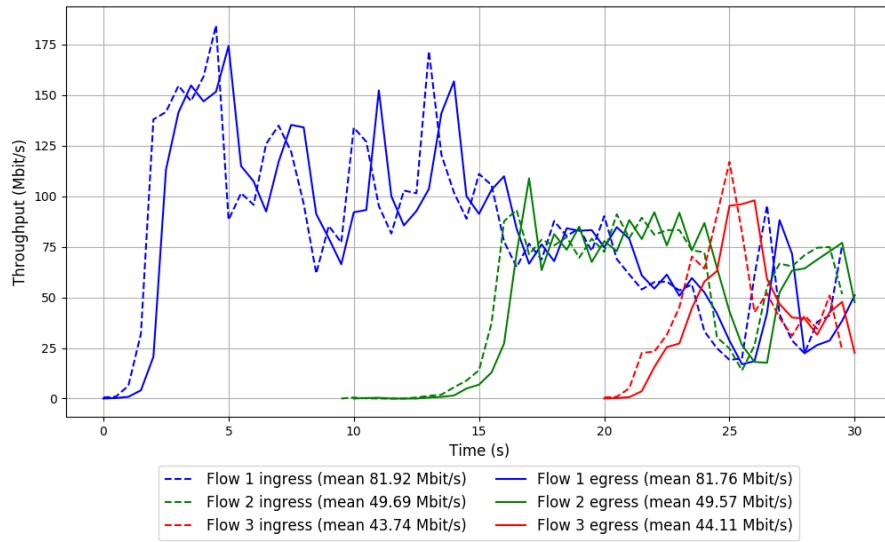


Run 4: Statistics of Copa

Start at: 2019-12-11 16:51:53
End at: 2019-12-11 16:52:23
Local clock offset: 0.712 ms
Remote clock offset: -40.456 ms

```
# Below is generated by plot.py at 2019-12-11 17:53:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 129.11 Mbit/s
95th percentile per-packet one-way delay: 145.404 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 81.76 Mbit/s
95th percentile per-packet one-way delay: 145.365 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 49.57 Mbit/s
95th percentile per-packet one-way delay: 142.235 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 44.11 Mbit/s
95th percentile per-packet one-way delay: 151.275 ms
Loss rate: 1.30%
```

Run 4: Report of Copa — Data Link

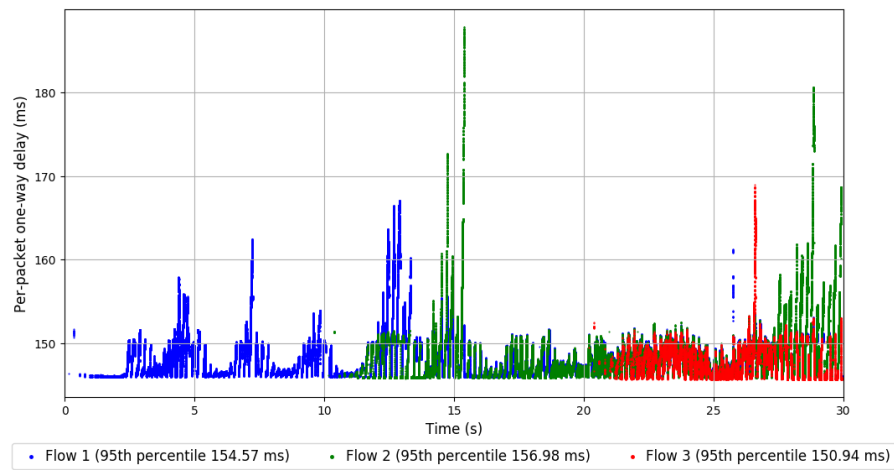
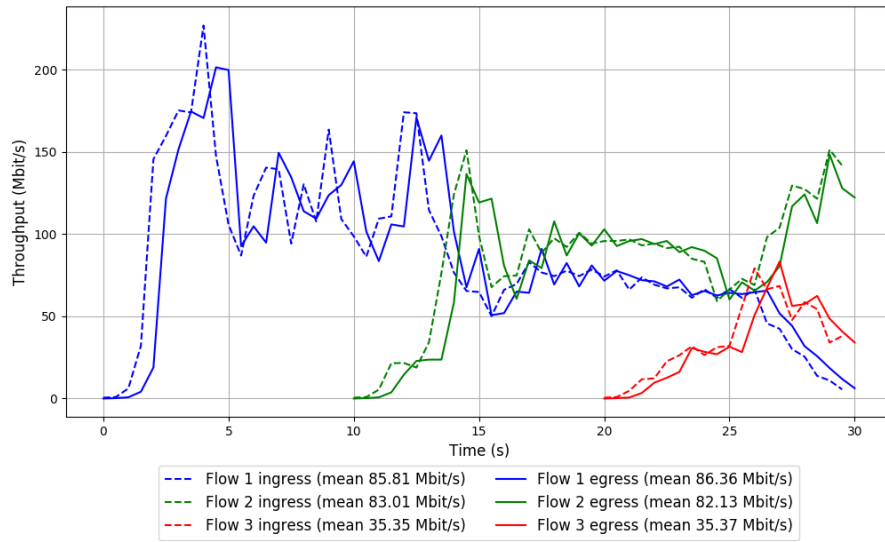


Run 5: Statistics of Copa

Start at: 2019-12-11 17:26:52
End at: 2019-12-11 17:27:22
Local clock offset: 6.343 ms
Remote clock offset: -43.807 ms

```
# Below is generated by plot.py at 2019-12-11 17:53:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 152.44 Mbit/s
95th percentile per-packet one-way delay: 155.549 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 86.36 Mbit/s
95th percentile per-packet one-way delay: 154.570 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 82.13 Mbit/s
95th percentile per-packet one-way delay: 156.983 ms
Loss rate: 2.07%
-- Flow 3:
Average throughput: 35.37 Mbit/s
95th percentile per-packet one-way delay: 150.936 ms
Loss rate: 2.00%
```

Run 5: Report of Copa — Data Link

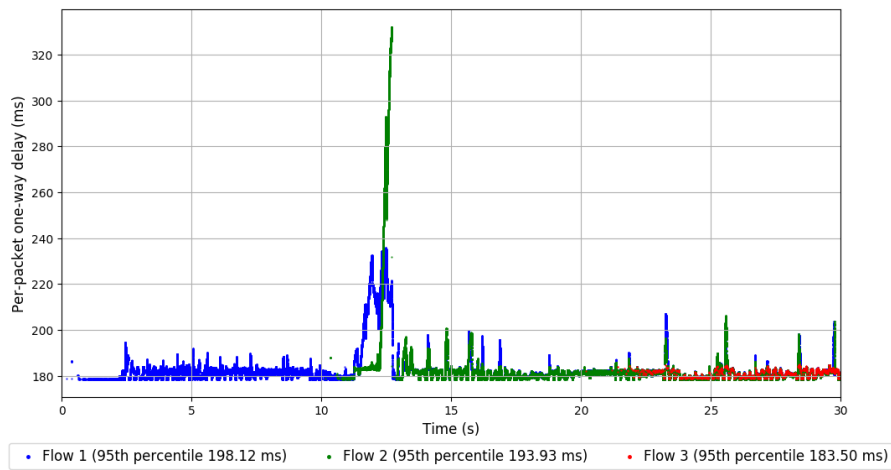
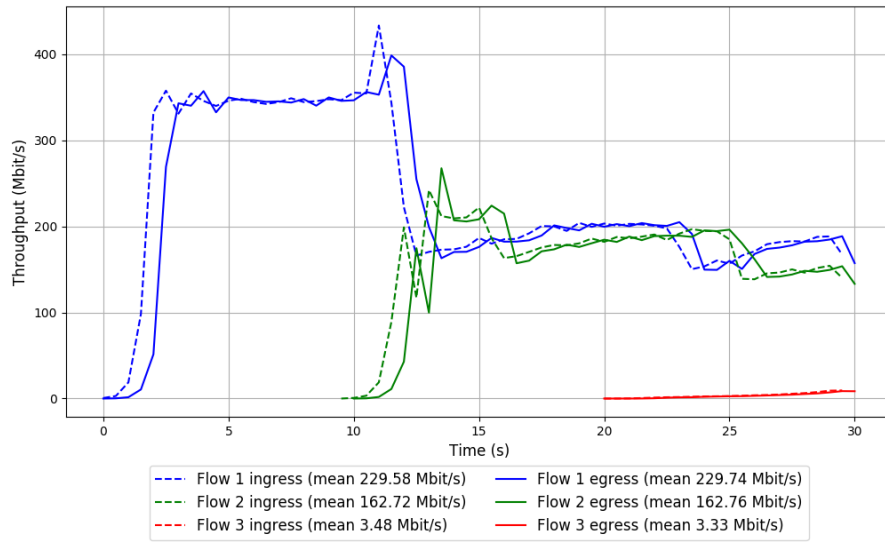


Run 1: Statistics of TCP Cubic

Start at: 2019-12-11 14:51:57
End at: 2019-12-11 14:52:27
Local clock offset: 3.67 ms
Remote clock offset: -81.141 ms

```
# Below is generated by plot.py at 2019-12-11 17:53:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 339.01 Mbit/s
95th percentile per-packet one-way delay: 195.894 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 229.74 Mbit/s
95th percentile per-packet one-way delay: 198.119 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 162.76 Mbit/s
95th percentile per-packet one-way delay: 193.932 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 3.33 Mbit/s
95th percentile per-packet one-way delay: 183.497 ms
Loss rate: 6.08%
```

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-12-11 15:26:52
End at: 2019-12-11 15:27:22
Local clock offset: 7.063 ms
Remote clock offset: -49.383 ms

Below is generated by plot.py at 2019-12-11 17:53:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 328.88 Mbit/s
95th percentile per-packet one-way delay: 168.720 ms
Loss rate: 0.77%

-- Flow 1:

Average throughput: 201.74 Mbit/s
95th percentile per-packet one-way delay: 158.380 ms
Loss rate: 0.40%

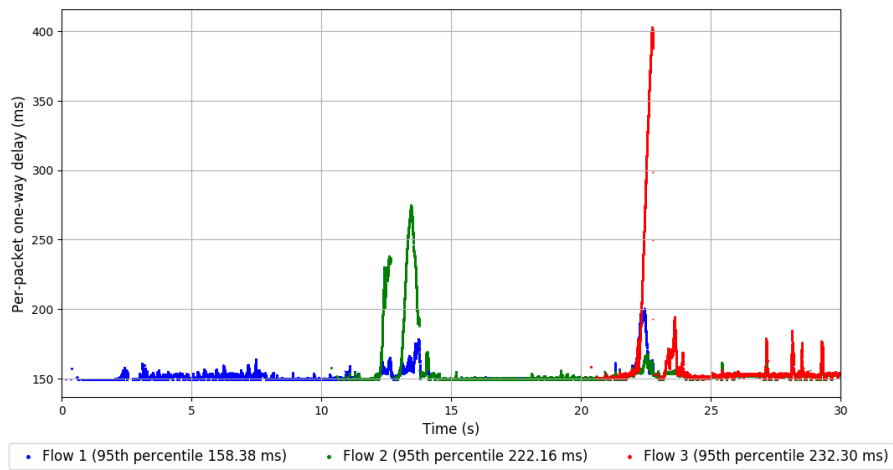
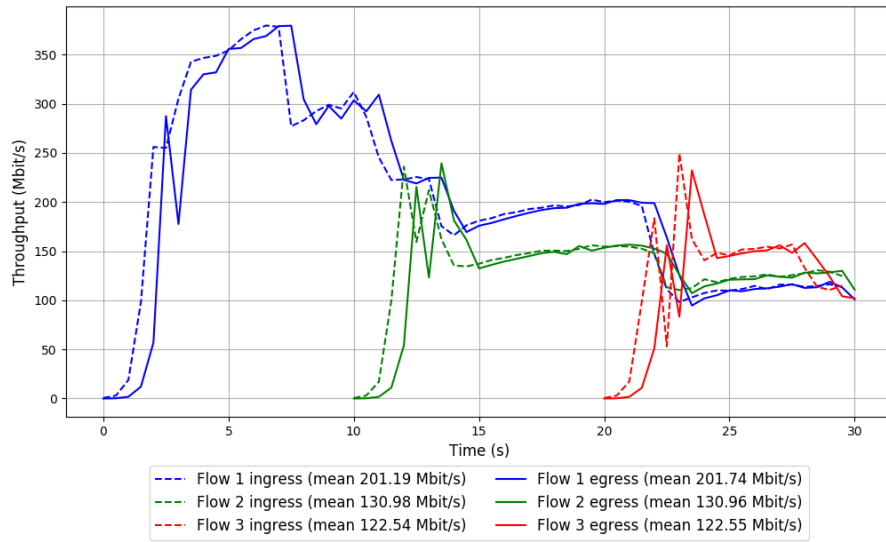
-- Flow 2:

Average throughput: 130.96 Mbit/s
95th percentile per-packet one-way delay: 222.156 ms
Loss rate: 1.03%

-- Flow 3:

Average throughput: 122.55 Mbit/s
95th percentile per-packet one-way delay: 232.297 ms
Loss rate: 2.03%

Run 2: Report of TCP Cubic — Data Link

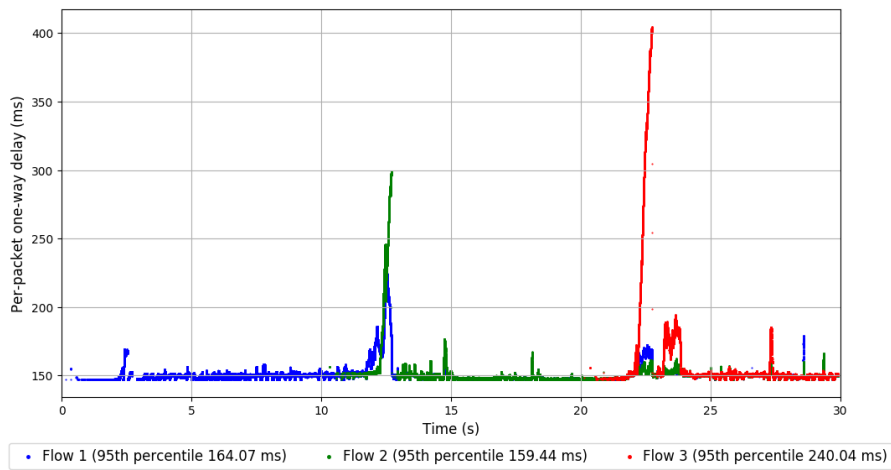
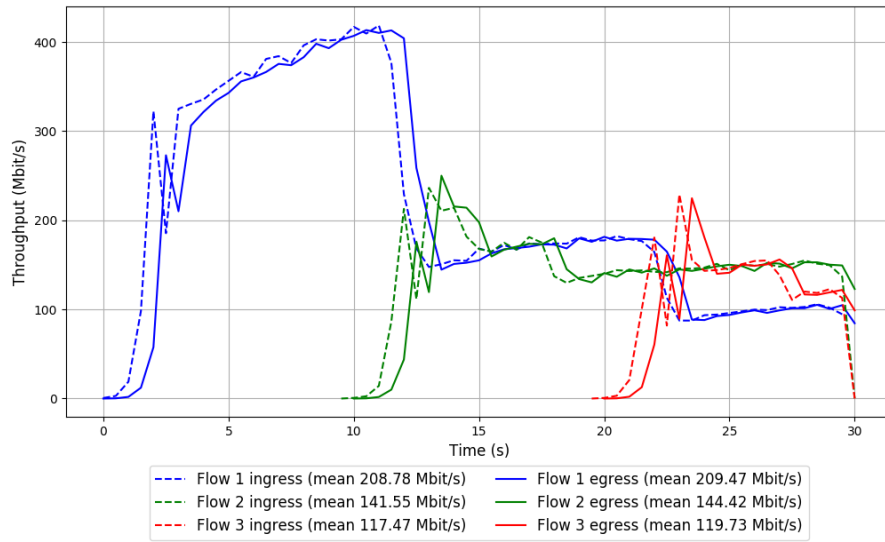


Run 3: Statistics of TCP Cubic

Start at: 2019-12-11 16:01:43
End at: 2019-12-11 16:02:13
Local clock offset: 4.349 ms
Remote clock offset: -46.482 ms

```
# Below is generated by plot.py at 2019-12-11 17:53:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 344.73 Mbit/s
95th percentile per-packet one-way delay: 167.985 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 209.47 Mbit/s
95th percentile per-packet one-way delay: 164.069 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 144.42 Mbit/s
95th percentile per-packet one-way delay: 159.443 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 119.73 Mbit/s
95th percentile per-packet one-way delay: 240.043 ms
Loss rate: 2.16%
```

Run 3: Report of TCP Cubic — Data Link

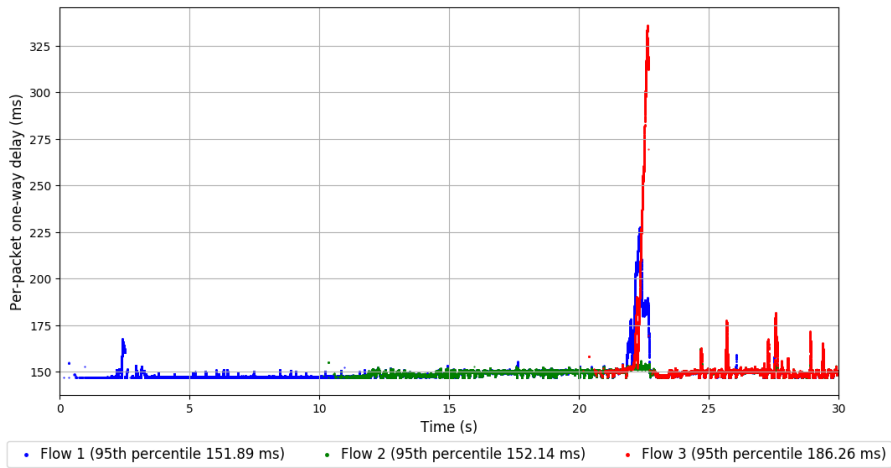
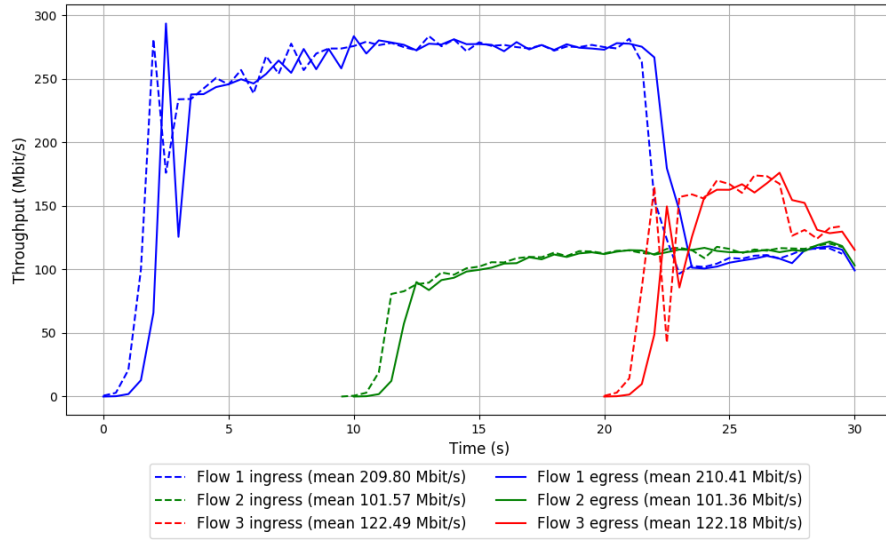


Run 4: Statistics of TCP Cubic

Start at: 2019-12-11 16:36:58
End at: 2019-12-11 16:37:28
Local clock offset: 6.619 ms
Remote clock offset: -45.499 ms

```
# Below is generated by plot.py at 2019-12-11 17:55:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 317.82 Mbit/s
95th percentile per-packet one-way delay: 153.070 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 210.41 Mbit/s
95th percentile per-packet one-way delay: 151.892 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 101.36 Mbit/s
95th percentile per-packet one-way delay: 152.142 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 122.18 Mbit/s
95th percentile per-packet one-way delay: 186.258 ms
Loss rate: 2.29%
```

Run 4: Report of TCP Cubic — Data Link

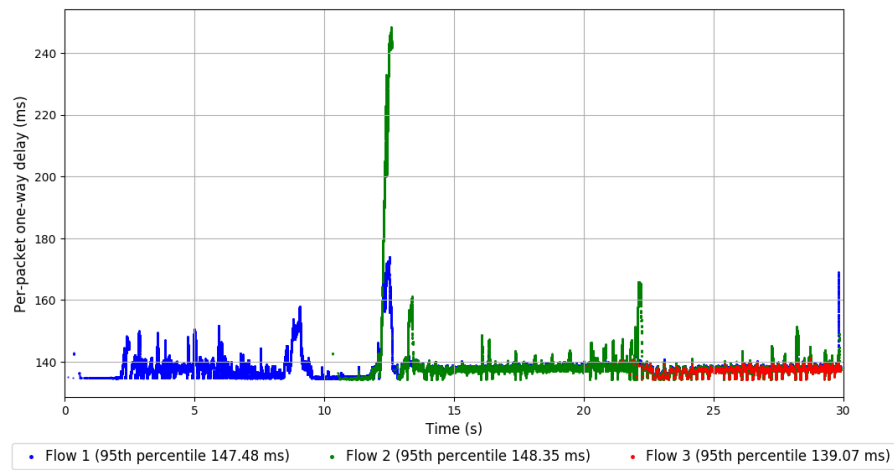
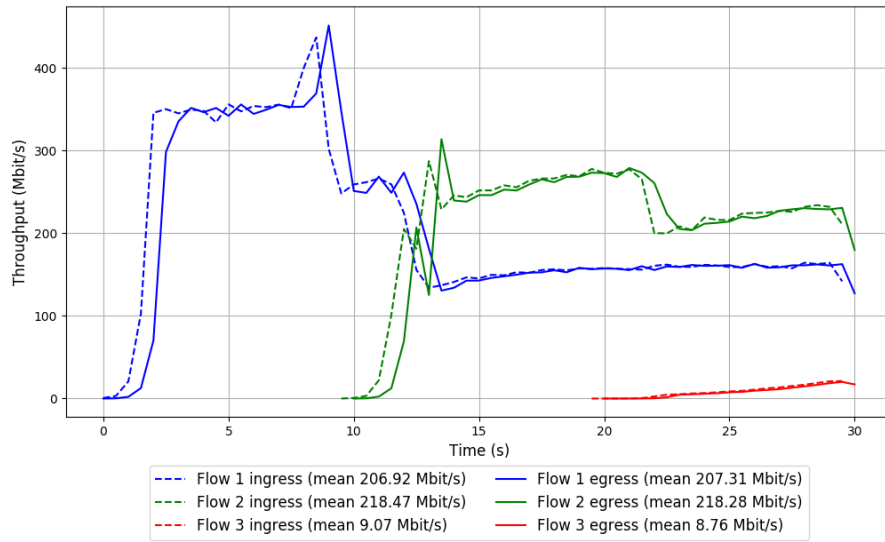


Run 5: Statistics of TCP Cubic

Start at: 2019-12-11 17:11:39
End at: 2019-12-11 17:12:09
Local clock offset: 1.637 ms
Remote clock offset: -37.135 ms

```
# Below is generated by plot.py at 2019-12-11 17:56:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 355.30 Mbit/s
95th percentile per-packet one-way delay: 147.532 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 207.31 Mbit/s
95th percentile per-packet one-way delay: 147.477 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 218.28 Mbit/s
95th percentile per-packet one-way delay: 148.349 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 8.76 Mbit/s
95th percentile per-packet one-way delay: 139.069 ms
Loss rate: 5.42%
```

Run 5: Report of TCP Cubic — Data Link

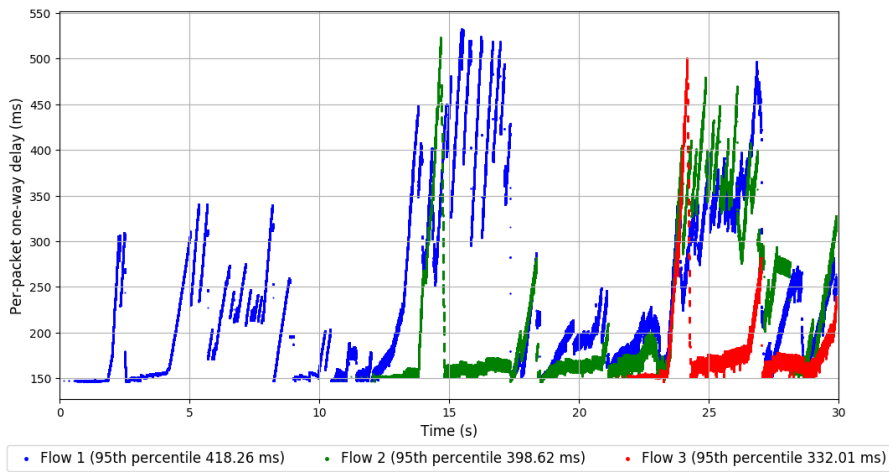
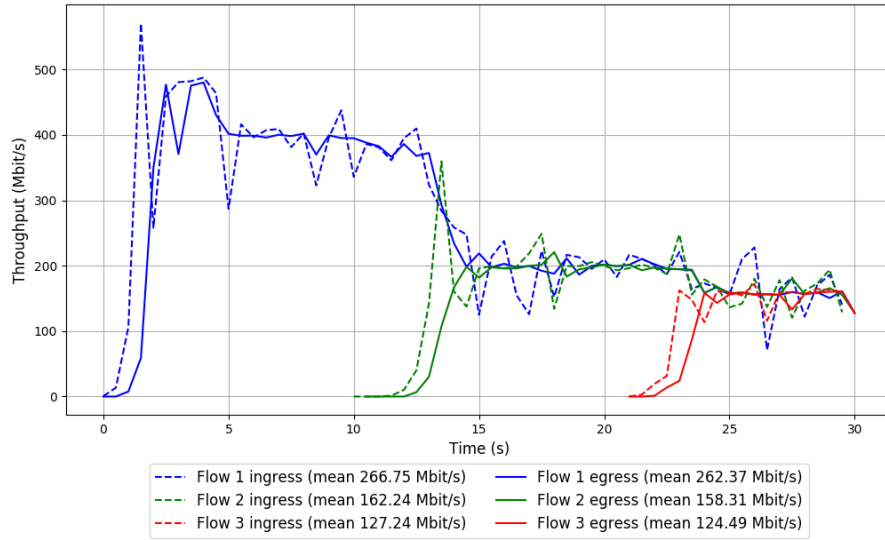


Run 1: Statistics of FillP

Start at: 2019-12-11 15:00:45
End at: 2019-12-11 15:01:15
Local clock offset: 1.718 ms
Remote clock offset: -51.207 ms

```
# Below is generated by plot.py at 2019-12-11 17:58:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 400.47 Mbit/s
95th percentile per-packet one-way delay: 406.932 ms
Loss rate: 2.77%
-- Flow 1:
Average throughput: 262.37 Mbit/s
95th percentile per-packet one-way delay: 418.258 ms
Loss rate: 2.30%
-- Flow 2:
Average throughput: 158.31 Mbit/s
95th percentile per-packet one-way delay: 398.617 ms
Loss rate: 3.37%
-- Flow 3:
Average throughput: 124.49 Mbit/s
95th percentile per-packet one-way delay: 332.007 ms
Loss rate: 4.41%
```

Run 1: Report of FillP — Data Link

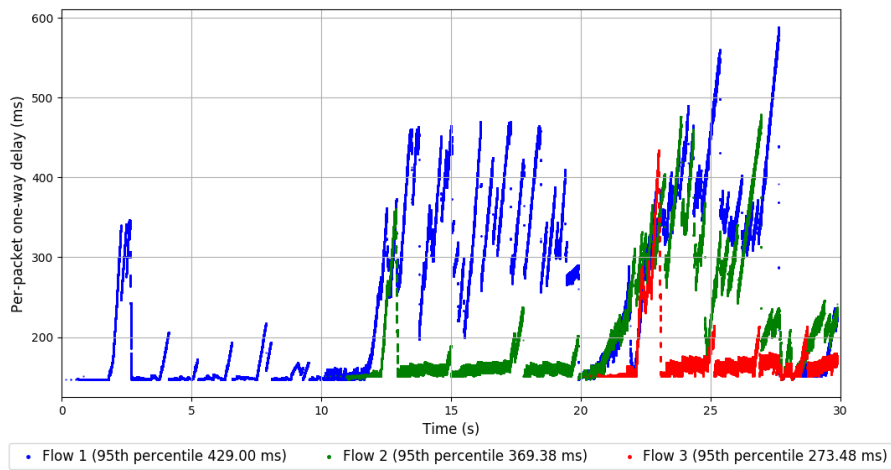
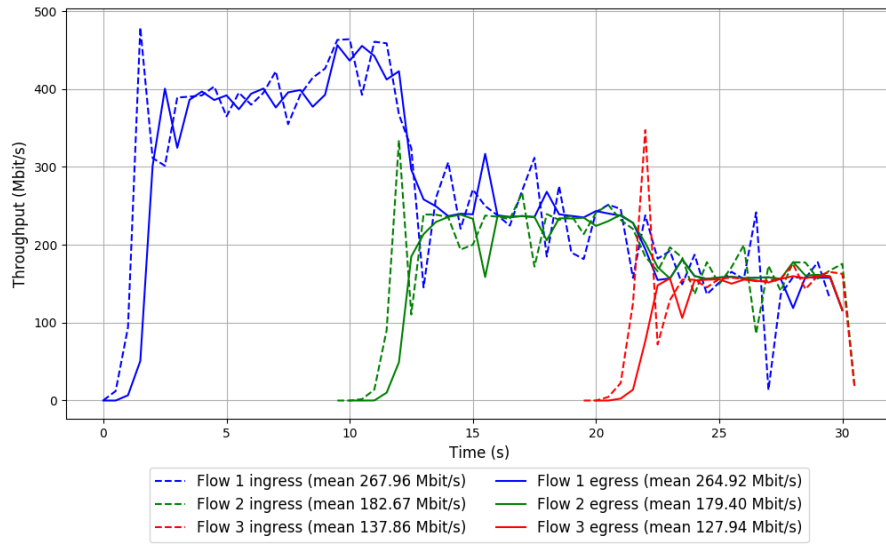


Run 2: Statistics of FillP

Start at: 2019-12-11 15:35:47
End at: 2019-12-11 15:36:17
Local clock offset: 7.365 ms
Remote clock offset: -46.719 ms

```
# Below is generated by plot.py at 2019-12-11 17:58:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 425.77 Mbit/s
95th percentile per-packet one-way delay: 410.435 ms
Loss rate: 4.35%
-- Flow 1:
Average throughput: 264.92 Mbit/s
95th percentile per-packet one-way delay: 428.999 ms
Loss rate: 1.86%
-- Flow 2:
Average throughput: 179.40 Mbit/s
95th percentile per-packet one-way delay: 369.385 ms
Loss rate: 5.72%
-- Flow 3:
Average throughput: 127.94 Mbit/s
95th percentile per-packet one-way delay: 273.477 ms
Loss rate: 14.54%
```

Run 2: Report of FillP — Data Link

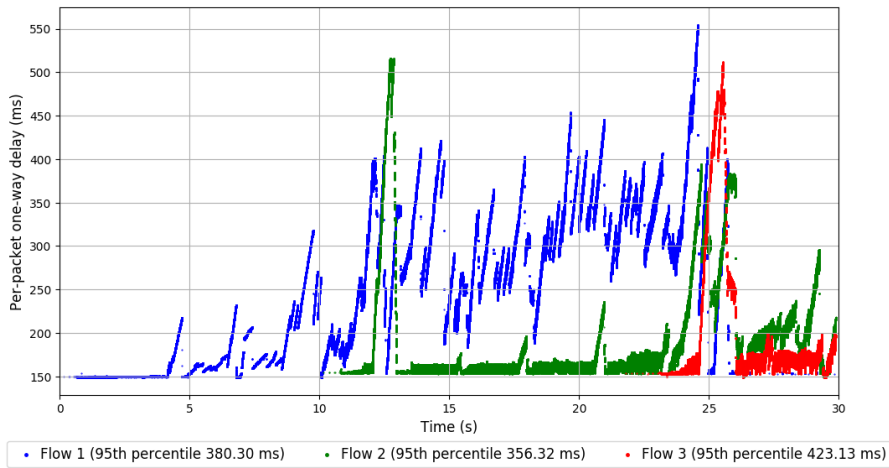
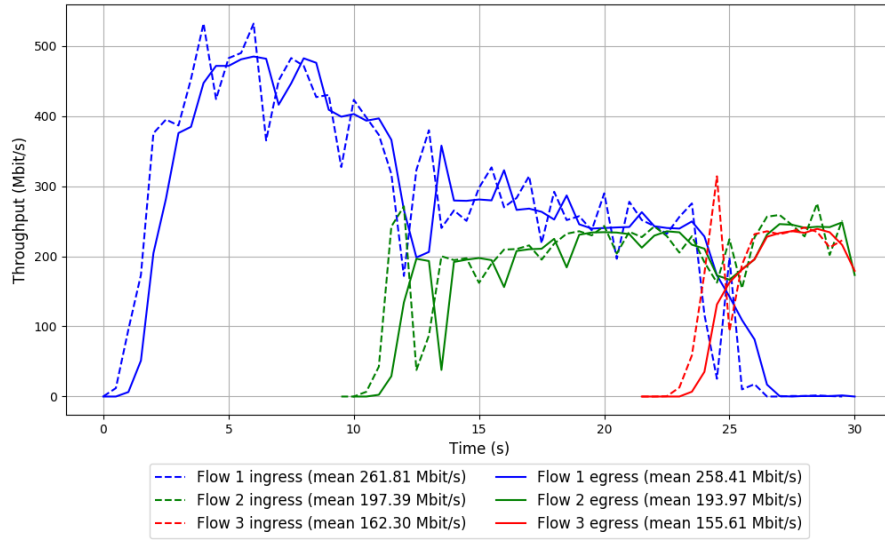


Run 3: Statistics of FillP

Start at: 2019-12-11 16:10:46
End at: 2019-12-11 16:11:16
Local clock offset: 5.03 ms
Remote clock offset: -48.12 ms

```
# Below is generated by plot.py at 2019-12-11 17:58:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 428.84 Mbit/s
95th percentile per-packet one-way delay: 377.133 ms
Loss rate: 2.47%
-- Flow 1:
Average throughput: 258.41 Mbit/s
95th percentile per-packet one-way delay: 380.299 ms
Loss rate: 1.63%
-- Flow 2:
Average throughput: 193.97 Mbit/s
95th percentile per-packet one-way delay: 356.320 ms
Loss rate: 2.73%
-- Flow 3:
Average throughput: 155.61 Mbit/s
95th percentile per-packet one-way delay: 423.132 ms
Loss rate: 6.56%
```

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-12-11 16:45:44
End at: 2019-12-11 16:46:14
Local clock offset: 3.761 ms
Remote clock offset: -47.405 ms

Below is generated by plot.py at 2019-12-11 17:58:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 309.52 Mbit/s
95th percentile per-packet one-way delay: 367.929 ms
Loss rate: 2.84%

-- Flow 1:

Average throughput: 131.35 Mbit/s
95th percentile per-packet one-way delay: 353.546 ms
Loss rate: 2.32%

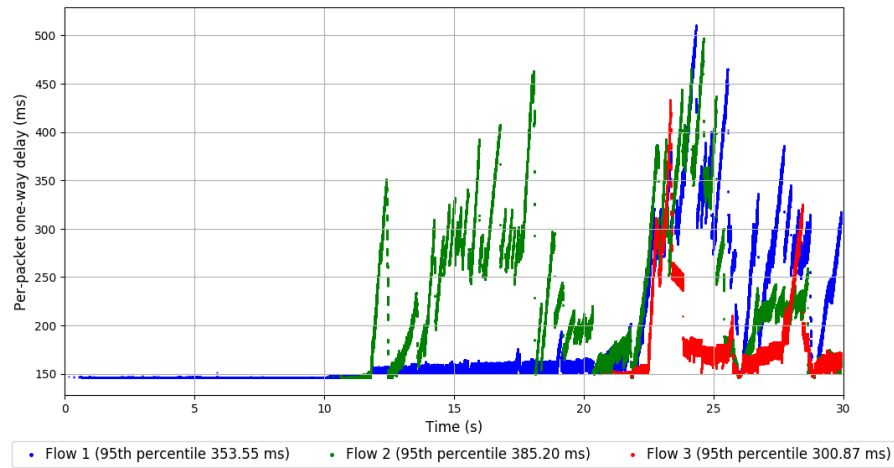
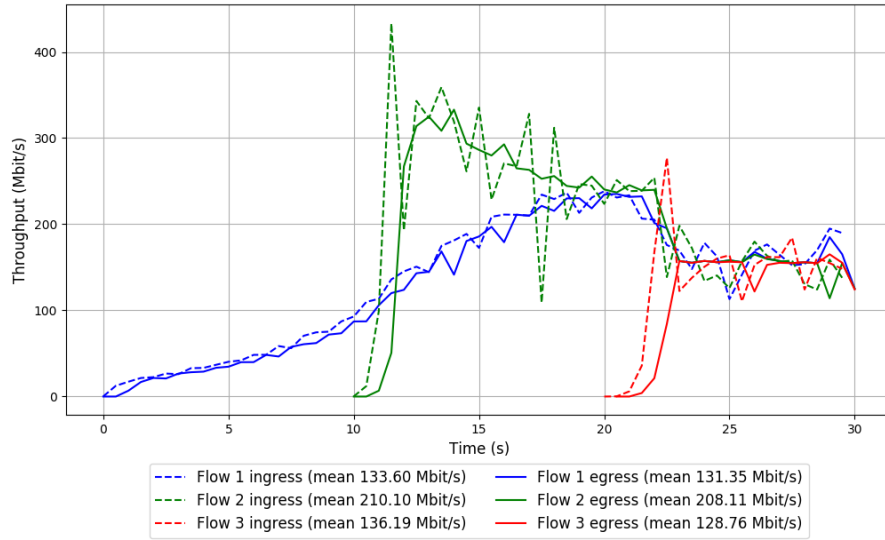
-- Flow 2:

Average throughput: 208.11 Mbit/s
95th percentile per-packet one-way delay: 385.201 ms
Loss rate: 1.90%

-- Flow 3:

Average throughput: 128.76 Mbit/s
95th percentile per-packet one-way delay: 300.867 ms
Loss rate: 7.49%

Run 4: Report of FillP — Data Link

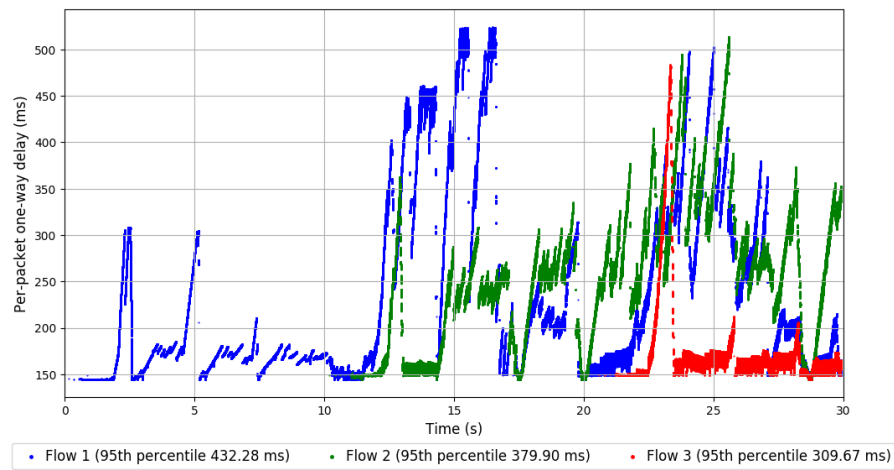
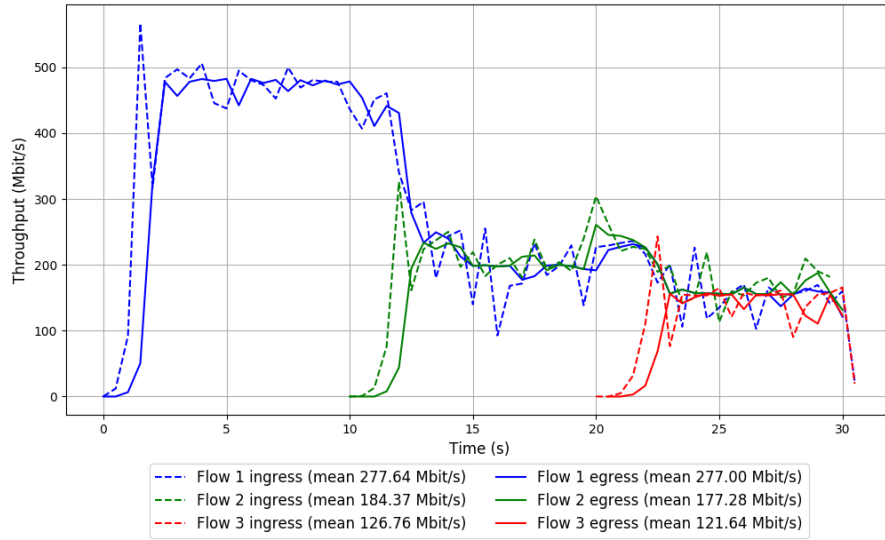


Run 5: Statistics of FillP

Start at: 2019-12-11 17:20:31
End at: 2019-12-11 17:21:01
Local clock offset: 1.404 ms
Remote clock offset: -47.639 ms

```
# Below is generated by plot.py at 2019-12-11 17:59:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 432.44 Mbit/s
95th percentile per-packet one-way delay: 412.488 ms
Loss rate: 4.30%
-- Flow 1:
Average throughput: 277.00 Mbit/s
95th percentile per-packet one-way delay: 432.277 ms
Loss rate: 2.88%
-- Flow 2:
Average throughput: 177.28 Mbit/s
95th percentile per-packet one-way delay: 379.901 ms
Loss rate: 4.97%
-- Flow 3:
Average throughput: 121.64 Mbit/s
95th percentile per-packet one-way delay: 309.670 ms
Loss rate: 11.74%
```

Run 5: Report of FillP — Data Link

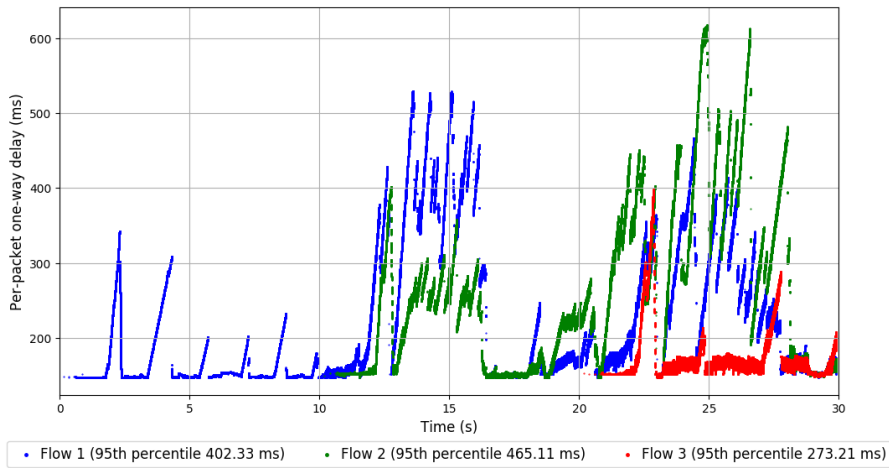
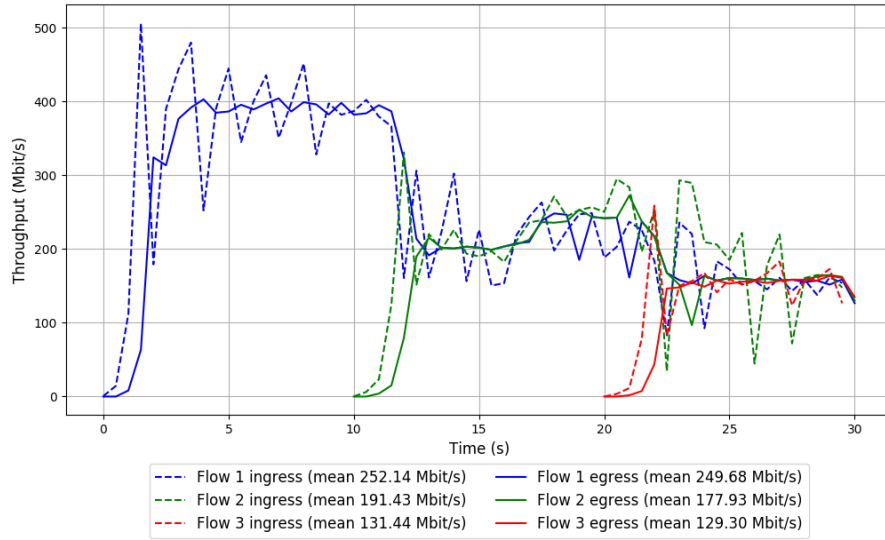


Run 1: Statistics of FillP-Sheep

Start at: 2019-12-11 14:56:19
End at: 2019-12-11 14:56:49
Local clock offset: 1.854 ms
Remote clock offset: -52.409 ms

```
# Below is generated by plot.py at 2019-12-11 17:59:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 409.82 Mbit/s
95th percentile per-packet one-way delay: 420.117 ms
Loss rate: 3.74%
-- Flow 1:
Average throughput: 249.68 Mbit/s
95th percentile per-packet one-way delay: 402.328 ms
Loss rate: 1.64%
-- Flow 2:
Average throughput: 177.93 Mbit/s
95th percentile per-packet one-way delay: 465.109 ms
Loss rate: 7.97%
-- Flow 3:
Average throughput: 129.30 Mbit/s
95th percentile per-packet one-way delay: 273.213 ms
Loss rate: 3.55%
```

Run 1: Report of FillP-Sheep — Data Link

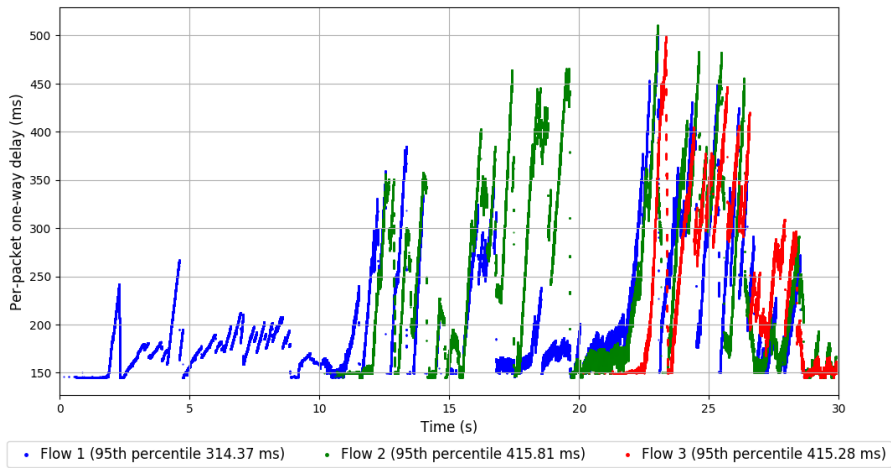
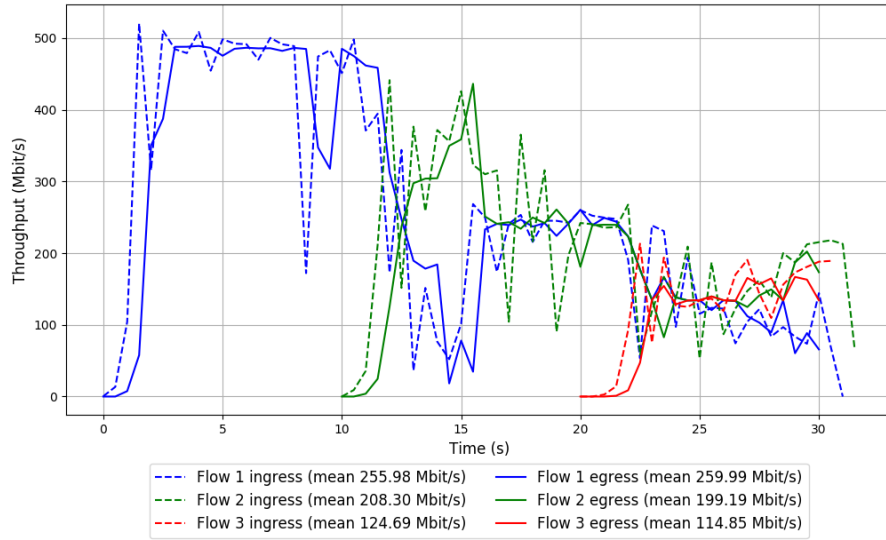


Run 2: Statistics of FillP-Sheep

Start at: 2019-12-11 15:31:18
End at: 2019-12-11 15:31:48
Local clock offset: 3.09 ms
Remote clock offset: -49.286 ms

```
# Below is generated by plot.py at 2019-12-11 18:02:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 429.28 Mbit/s
95th percentile per-packet one-way delay: 377.881 ms
Loss rate: 7.77%
-- Flow 1:
Average throughput: 259.99 Mbit/s
95th percentile per-packet one-way delay: 314.369 ms
Loss rate: 3.16%
-- Flow 2:
Average throughput: 199.19 Mbit/s
95th percentile per-packet one-way delay: 415.814 ms
Loss rate: 12.77%
-- Flow 3:
Average throughput: 114.85 Mbit/s
95th percentile per-packet one-way delay: 415.278 ms
Loss rate: 18.26%
```

Run 2: Report of FillP-Sheep — Data Link

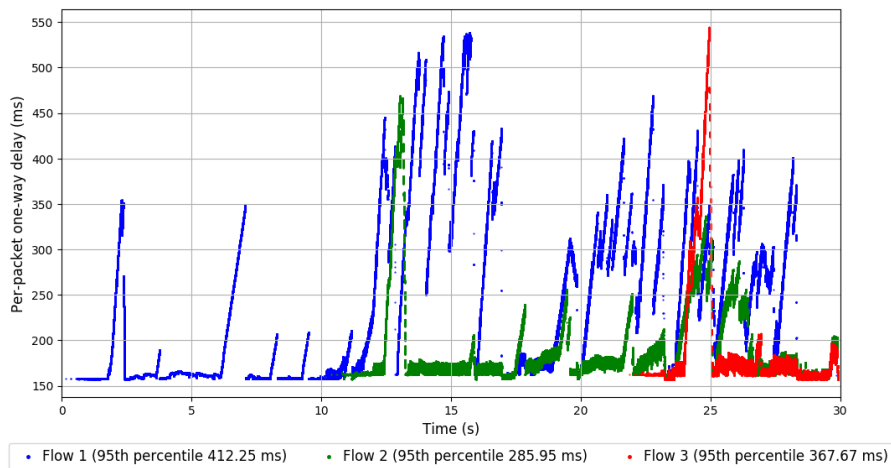
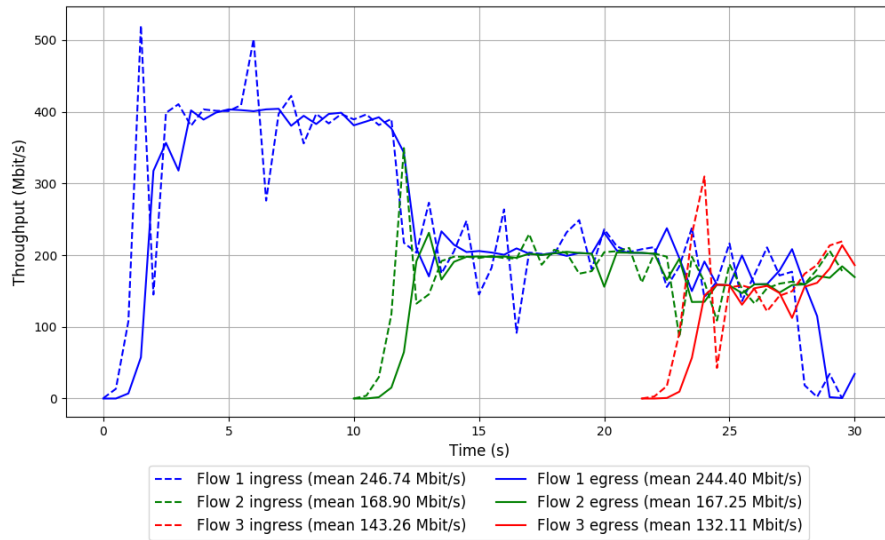


Run 3: Statistics of FillP-Sheep

Start at: 2019-12-11 16:06:10
End at: 2019-12-11 16:06:40
Local clock offset: 4.139 ms
Remote clock offset: -56.741 ms

```
# Below is generated by plot.py at 2019-12-11 18:02:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 390.49 Mbit/s
95th percentile per-packet one-way delay: 396.664 ms
Loss rate: 2.16%
-- Flow 1:
Average throughput: 244.40 Mbit/s
95th percentile per-packet one-way delay: 412.249 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 167.25 Mbit/s
95th percentile per-packet one-way delay: 285.951 ms
Loss rate: 2.03%
-- Flow 3:
Average throughput: 132.11 Mbit/s
95th percentile per-packet one-way delay: 367.671 ms
Loss rate: 10.10%
```

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-12-11 16:41:23
End at: 2019-12-11 16:41:53
Local clock offset: 6.111 ms
Remote clock offset: -46.923 ms

Below is generated by plot.py at 2019-12-11 18:03:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 406.79 Mbit/s
95th percentile per-packet one-way delay: 453.188 ms
Loss rate: 2.82%

-- Flow 1:

Average throughput: 268.75 Mbit/s
95th percentile per-packet one-way delay: 430.533 ms
Loss rate: 1.82%

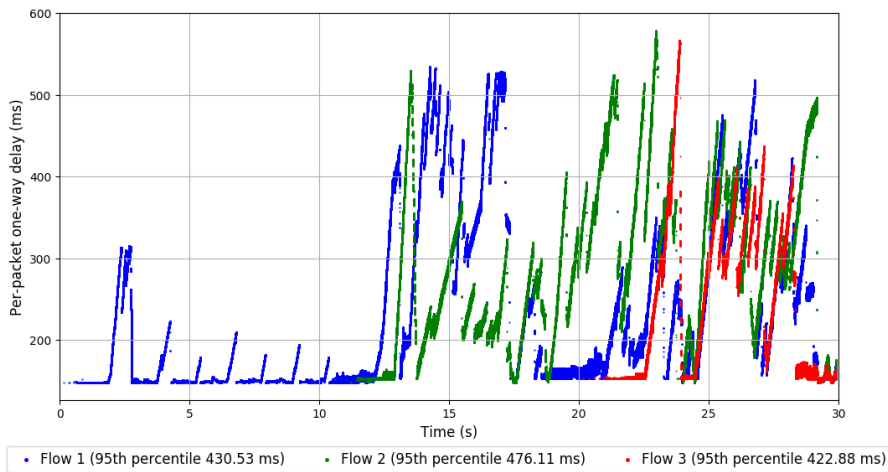
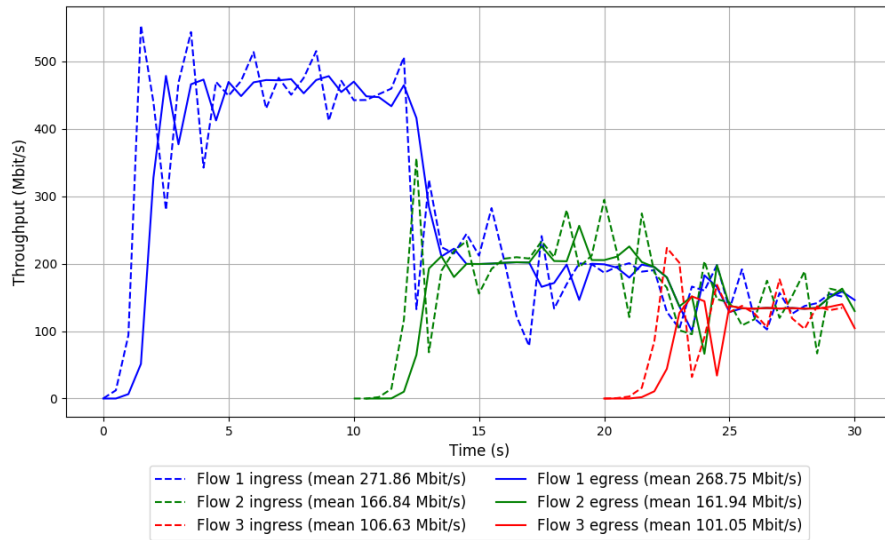
-- Flow 2:

Average throughput: 161.94 Mbit/s
95th percentile per-packet one-way delay: 476.114 ms
Loss rate: 3.91%

-- Flow 3:

Average throughput: 101.05 Mbit/s
95th percentile per-packet one-way delay: 422.875 ms
Loss rate: 7.18%

Run 4: Report of FillP-Sheep — Data Link

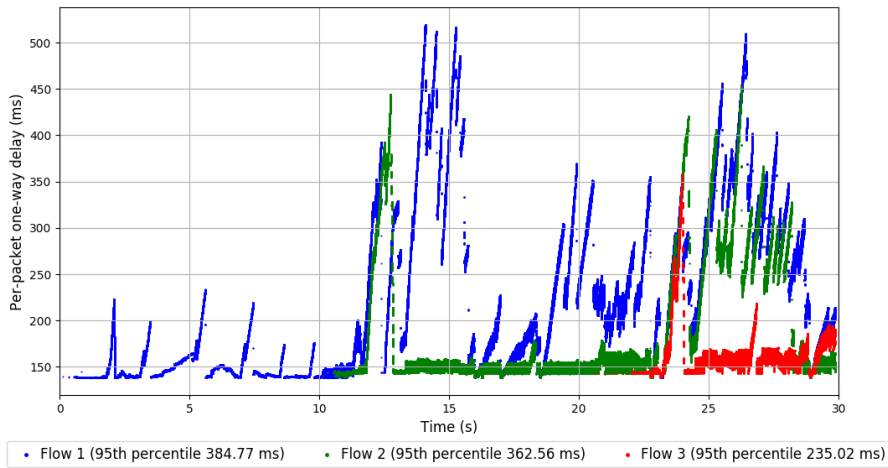
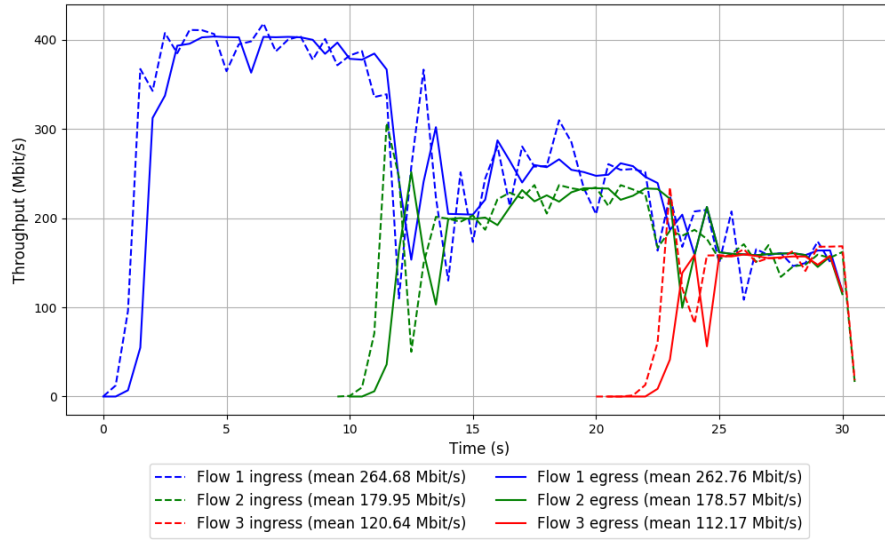


Run 5: Statistics of FillP-Sheep

Start at: 2019-12-11 17:16:06
End at: 2019-12-11 17:16:36
Local clock offset: 5.993 ms
Remote clock offset: -36.728 ms

```
# Below is generated by plot.py at 2019-12-11 18:04:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 416.44 Mbit/s
95th percentile per-packet one-way delay: 368.019 ms
Loss rate: 3.66%
-- Flow 1:
Average throughput: 262.76 Mbit/s
95th percentile per-packet one-way delay: 384.770 ms
Loss rate: 1.46%
-- Flow 2:
Average throughput: 178.57 Mbit/s
95th percentile per-packet one-way delay: 362.563 ms
Loss rate: 4.77%
-- Flow 3:
Average throughput: 112.17 Mbit/s
95th percentile per-packet one-way delay: 235.018 ms
Loss rate: 14.57%
```

Run 5: Report of FillP-Sheep — Data Link

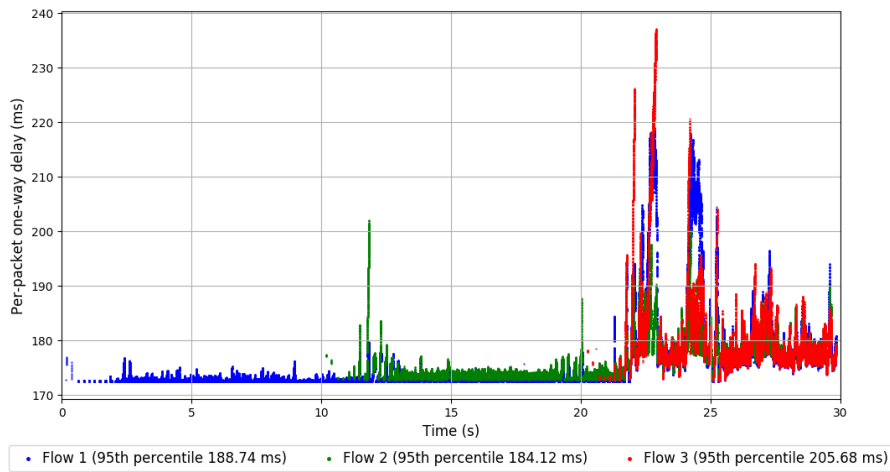
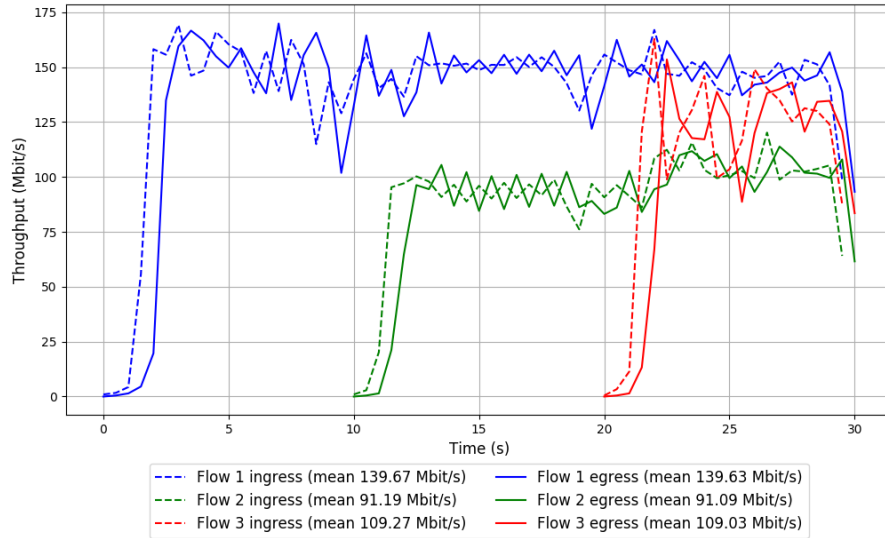


Run 1: Statistics of Indigo

Start at: 2019-12-11 14:59:12
End at: 2019-12-11 14:59:42
Local clock offset: 1.406 ms
Remote clock offset: -77.437 ms

```
# Below is generated by plot.py at 2019-12-11 18:04:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 235.15 Mbit/s
95th percentile per-packet one-way delay: 189.069 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 139.63 Mbit/s
95th percentile per-packet one-way delay: 188.740 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 91.09 Mbit/s
95th percentile per-packet one-way delay: 184.120 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 109.03 Mbit/s
95th percentile per-packet one-way delay: 205.678 ms
Loss rate: 2.32%
```

Run 1: Report of Indigo — Data Link

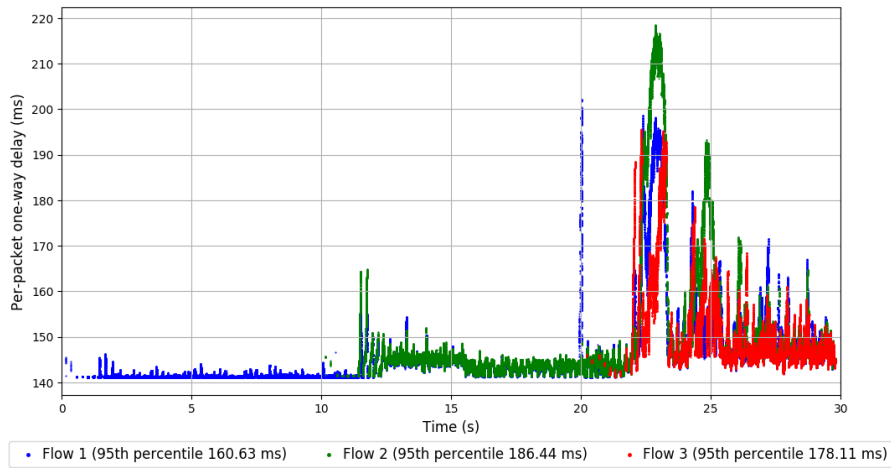
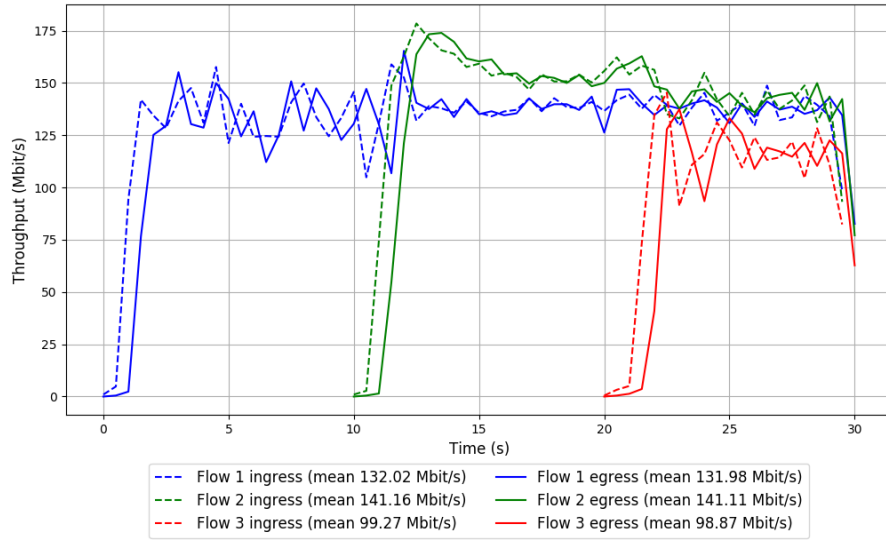


Run 2: Statistics of Indigo

Start at: 2019-12-11 15:34:13
End at: 2019-12-11 15:34:43
Local clock offset: 7.091 ms
Remote clock offset: -40.954 ms

```
# Below is generated by plot.py at 2019-12-11 18:04:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 257.37 Mbit/s
95th percentile per-packet one-way delay: 172.461 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 131.98 Mbit/s
95th percentile per-packet one-way delay: 160.630 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 141.11 Mbit/s
95th percentile per-packet one-way delay: 186.442 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 98.87 Mbit/s
95th percentile per-packet one-way delay: 178.109 ms
Loss rate: 2.50%
```

Run 2: Report of Indigo — Data Link

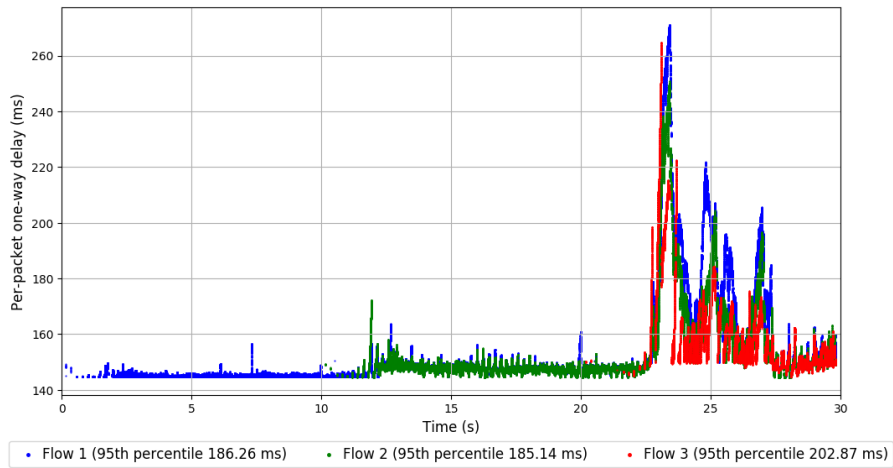
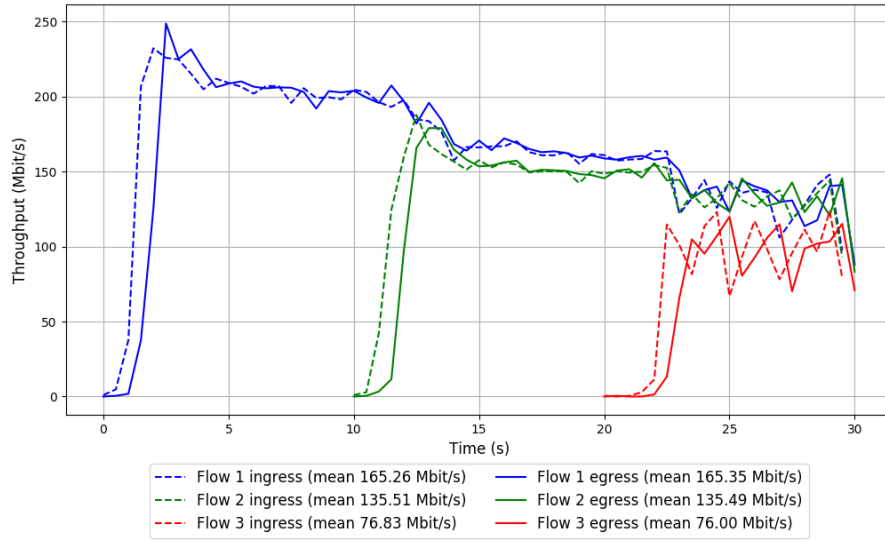


Run 3: Statistics of Indigo

Start at: 2019-12-11 16:09:10
End at: 2019-12-11 16:09:40
Local clock offset: 0.755 ms
Remote clock offset: -47.615 ms

```
# Below is generated by plot.py at 2019-12-11 18:04:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 279.75 Mbit/s
95th percentile per-packet one-way delay: 187.540 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 165.35 Mbit/s
95th percentile per-packet one-way delay: 186.265 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 135.49 Mbit/s
95th percentile per-packet one-way delay: 185.137 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 76.00 Mbit/s
95th percentile per-packet one-way delay: 202.872 ms
Loss rate: 3.14%
```

Run 3: Report of Indigo — Data Link

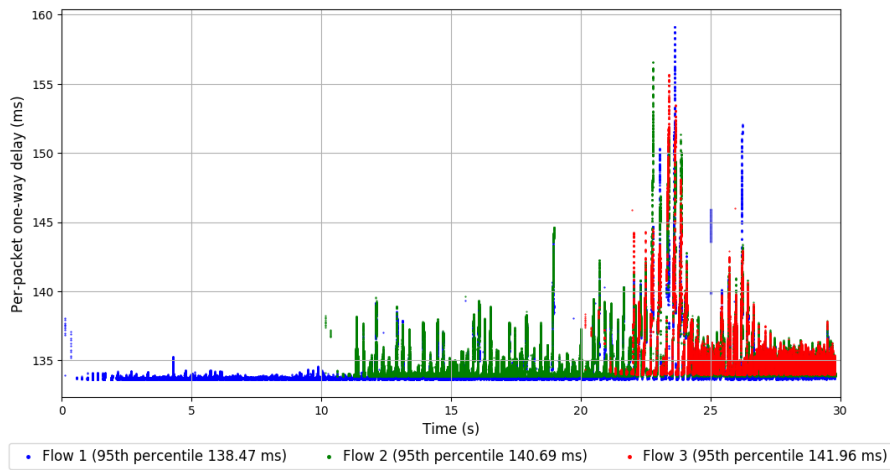
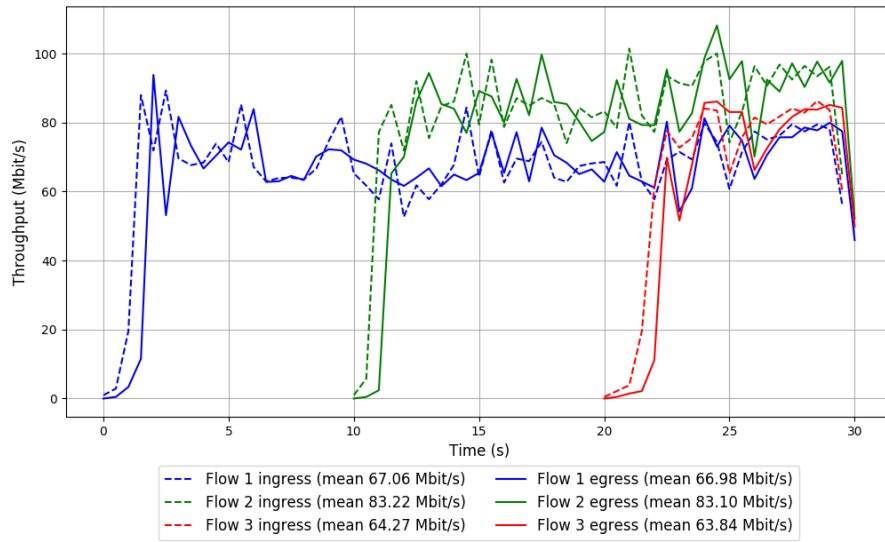


Run 4: Statistics of Indigo

Start at: 2019-12-11 16:44:16
End at: 2019-12-11 16:44:46
Local clock offset: 1.837 ms
Remote clock offset: -36.639 ms

```
# Below is generated by plot.py at 2019-12-11 18:04:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 142.70 Mbit/s
95th percentile per-packet one-way delay: 140.006 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 66.98 Mbit/s
95th percentile per-packet one-way delay: 138.467 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 83.10 Mbit/s
95th percentile per-packet one-way delay: 140.689 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 63.84 Mbit/s
95th percentile per-packet one-way delay: 141.960 ms
Loss rate: 2.70%
```

Run 4: Report of Indigo — Data Link

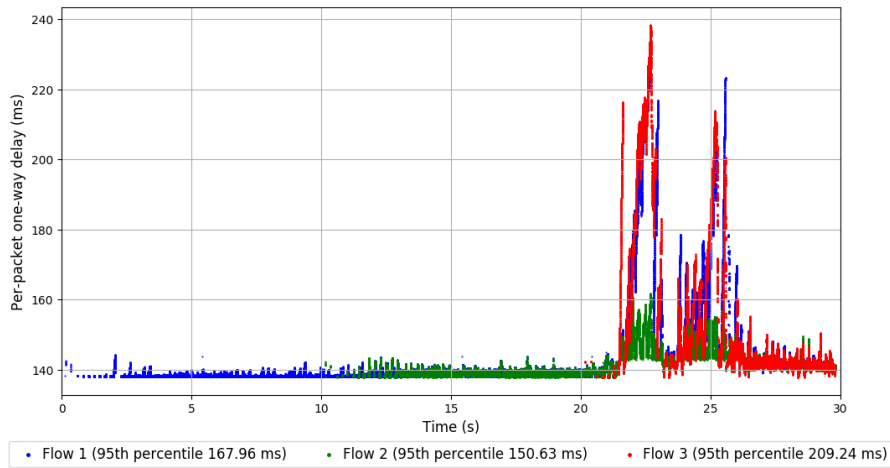
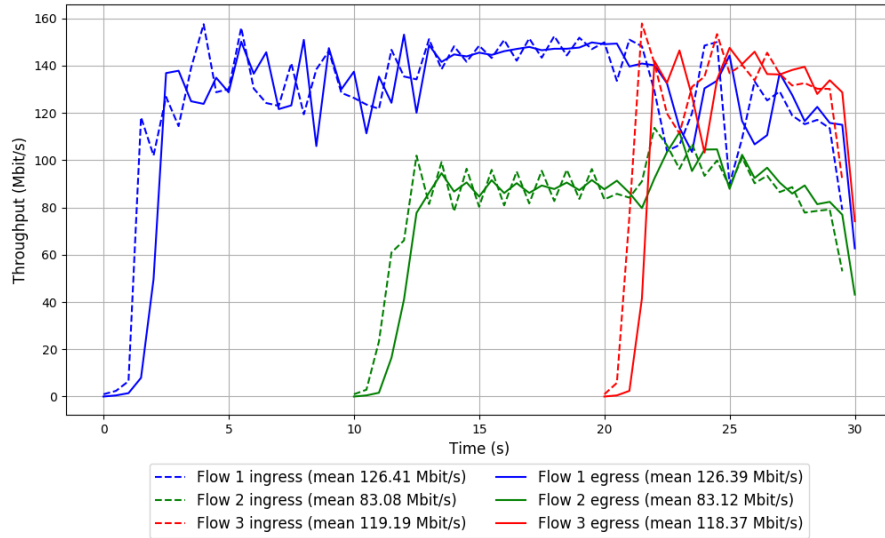


Run 5: Statistics of Indigo

Start at: 2019-12-11 17:18:59
End at: 2019-12-11 17:19:29
Local clock offset: 5.819 ms
Remote clock offset: -36.338 ms

```
# Below is generated by plot.py at 2019-12-11 18:04:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 219.89 Mbit/s
95th percentile per-packet one-way delay: 178.983 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 126.39 Mbit/s
95th percentile per-packet one-way delay: 167.960 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 83.12 Mbit/s
95th percentile per-packet one-way delay: 150.630 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 118.37 Mbit/s
95th percentile per-packet one-way delay: 209.238 ms
Loss rate: 2.68%
```

Run 5: Report of Indigo — Data Link

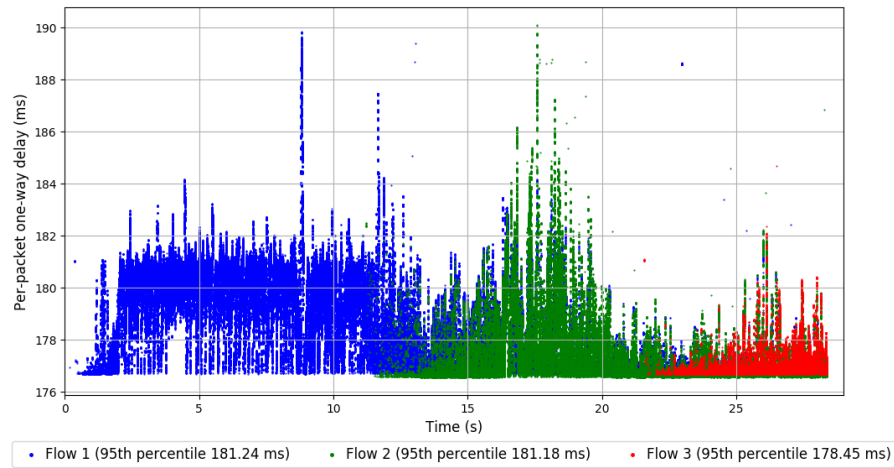
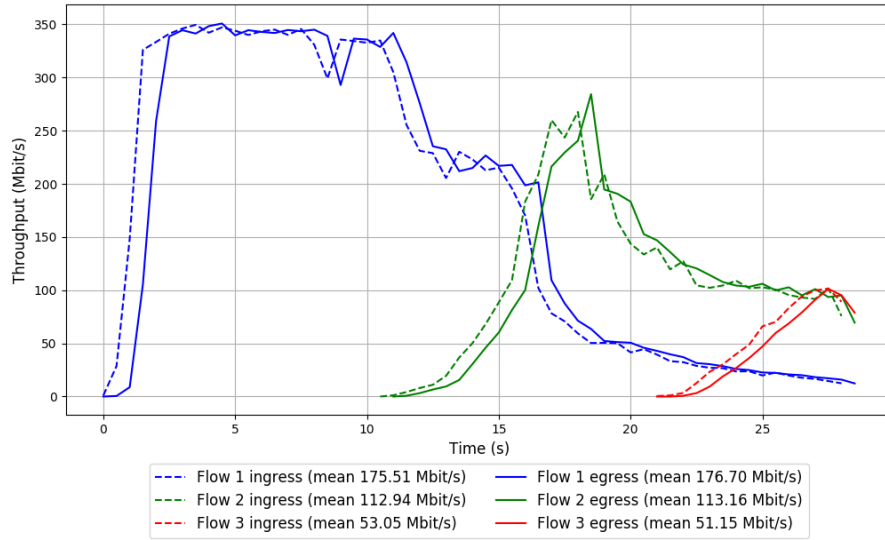


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-12-11 15:18:16
End at: 2019-12-11 15:18:46
Local clock offset: 6.743 ms
Remote clock offset: -76.574 ms

```
# Below is generated by plot.py at 2019-12-11 18:04:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 258.98 Mbit/s
95th percentile per-packet one-way delay: 181.194 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 176.70 Mbit/s
95th percentile per-packet one-way delay: 181.239 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 113.16 Mbit/s
95th percentile per-packet one-way delay: 181.181 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 51.15 Mbit/s
95th percentile per-packet one-way delay: 178.449 ms
Loss rate: 6.26%
```

Run 1: Report of Indigo-MusesC3 — Data Link

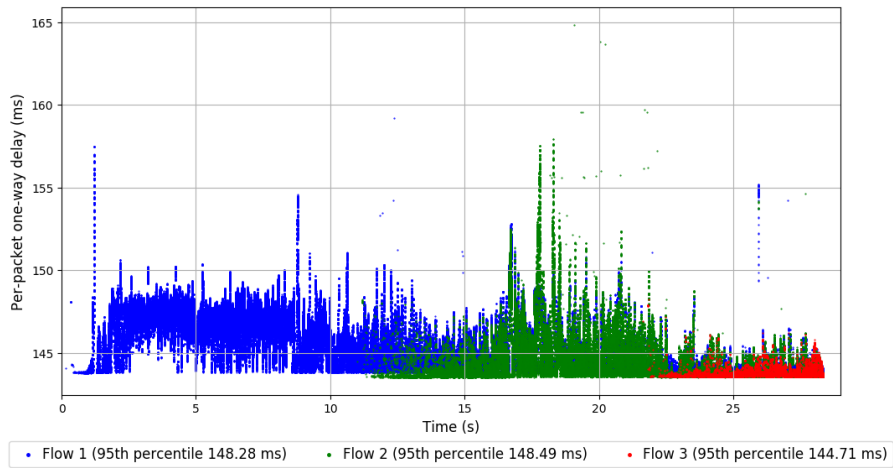
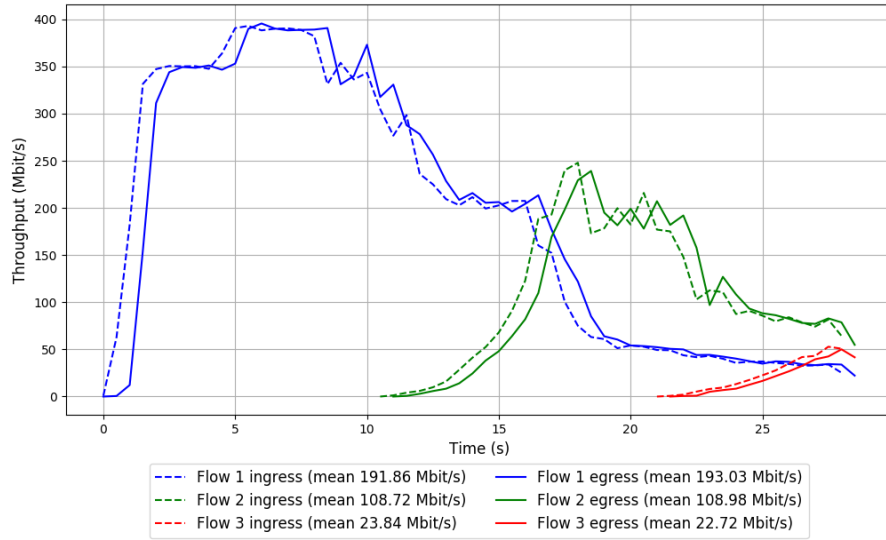


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-12-11 15:53:17
End at: 2019-12-11 15:53:47
Local clock offset: 5.348 ms
Remote clock offset: -42.51 ms

```
# Below is generated by plot.py at 2019-12-11 18:05:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 265.44 Mbit/s
95th percentile per-packet one-way delay: 148.287 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 193.03 Mbit/s
95th percentile per-packet one-way delay: 148.285 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 108.98 Mbit/s
95th percentile per-packet one-way delay: 148.485 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 22.72 Mbit/s
95th percentile per-packet one-way delay: 144.710 ms
Loss rate: 7.48%
```

Run 2: Report of Indigo-MusesC3 — Data Link

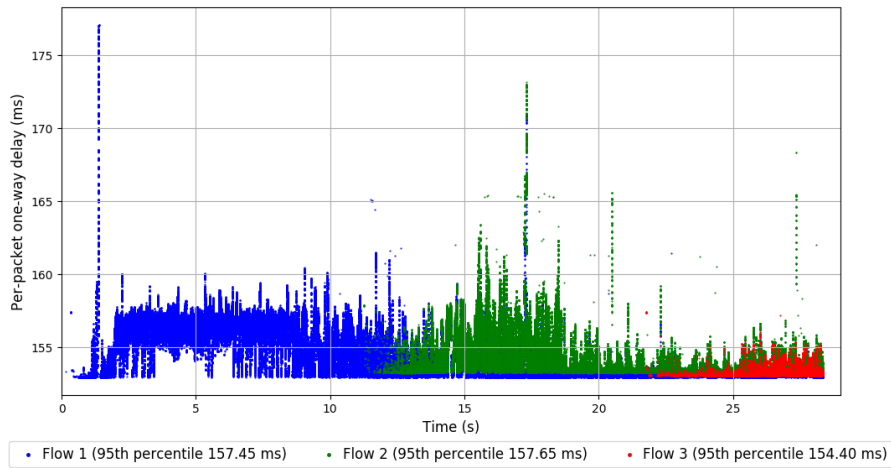
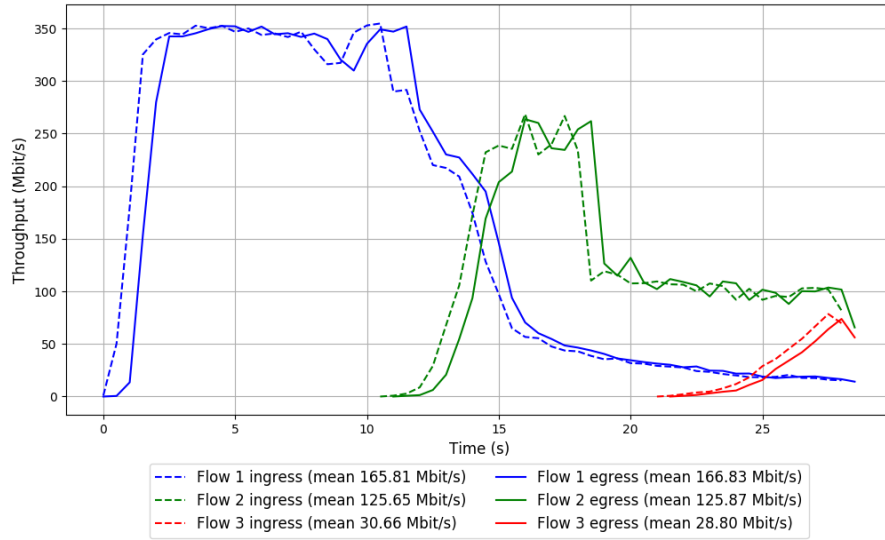


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-12-11 16:28:33
End at: 2019-12-11 16:29:03
Local clock offset: 6.127 ms
Remote clock offset: -51.779 ms

```
# Below is generated by plot.py at 2019-12-11 18:05:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 250.85 Mbit/s
95th percentile per-packet one-way delay: 157.478 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 166.83 Mbit/s
95th percentile per-packet one-way delay: 157.449 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 125.87 Mbit/s
95th percentile per-packet one-way delay: 157.646 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 28.80 Mbit/s
95th percentile per-packet one-way delay: 154.403 ms
Loss rate: 8.82%
```

Run 3: Report of Indigo-MusesC3 — Data Link

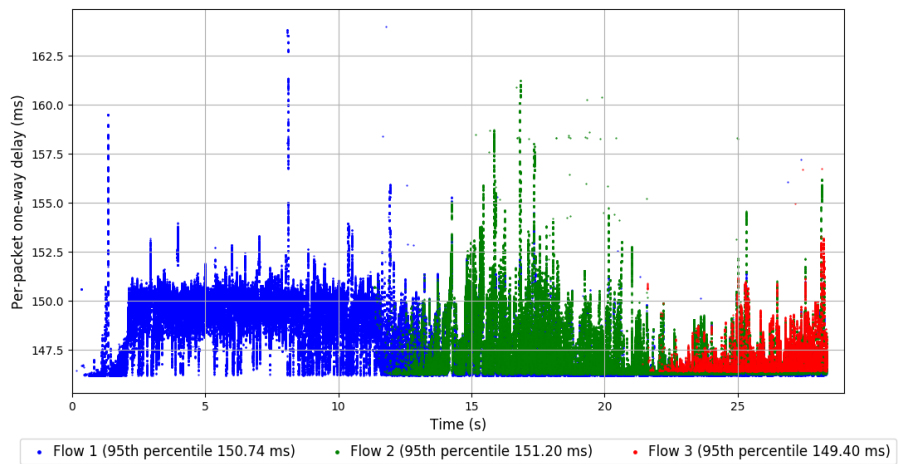
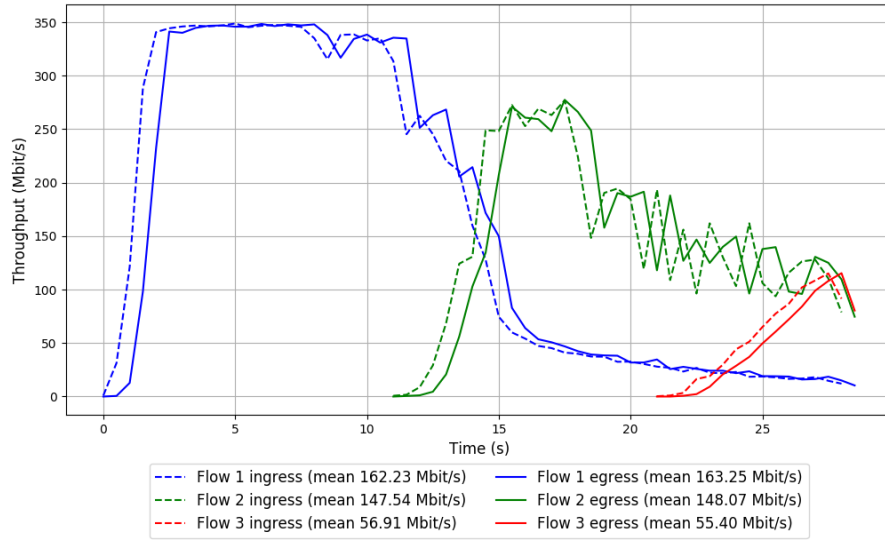


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-12-11 17:03:14
End at: 2019-12-11 17:03:44
Local clock offset: 6.574 ms
Remote clock offset: -43.984 ms

```
# Below is generated by plot.py at 2019-12-11 18:05:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 267.02 Mbit/s
95th percentile per-packet one-way delay: 150.798 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 163.25 Mbit/s
95th percentile per-packet one-way delay: 150.737 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 148.07 Mbit/s
95th percentile per-packet one-way delay: 151.202 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 55.40 Mbit/s
95th percentile per-packet one-way delay: 149.395 ms
Loss rate: 5.38%
```

Run 4: Report of Indigo-MusesC3 — Data Link

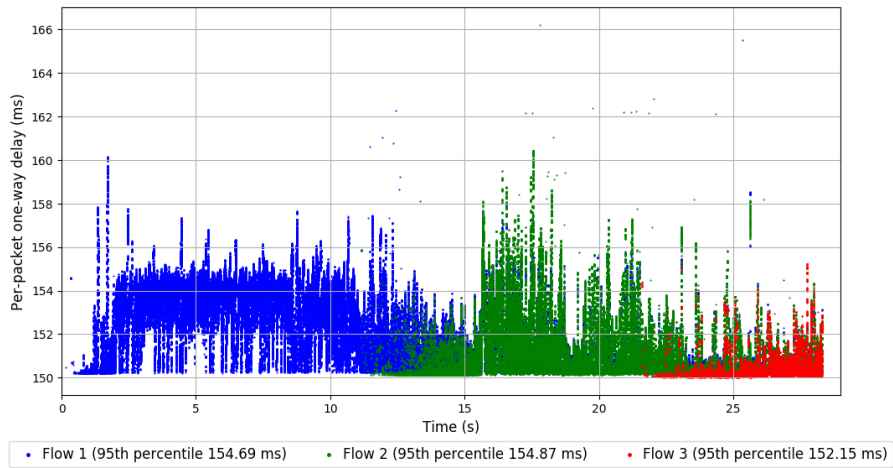
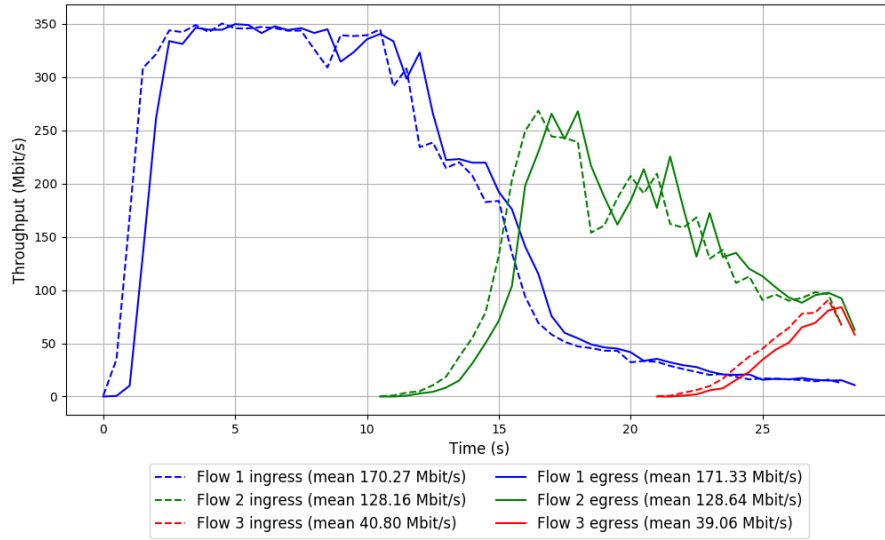


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-12-11 17:38:12
End at: 2019-12-11 17:38:42
Local clock offset: 6.692 ms
Remote clock offset: -47.806 ms

```
# Below is generated by plot.py at 2019-12-11 18:05:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 260.25 Mbit/s
95th percentile per-packet one-way delay: 154.698 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 171.33 Mbit/s
95th percentile per-packet one-way delay: 154.693 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 128.64 Mbit/s
95th percentile per-packet one-way delay: 154.873 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 39.06 Mbit/s
95th percentile per-packet one-way delay: 152.146 ms
Loss rate: 6.96%
```

Run 5: Report of Indigo-MusesC3 — Data Link

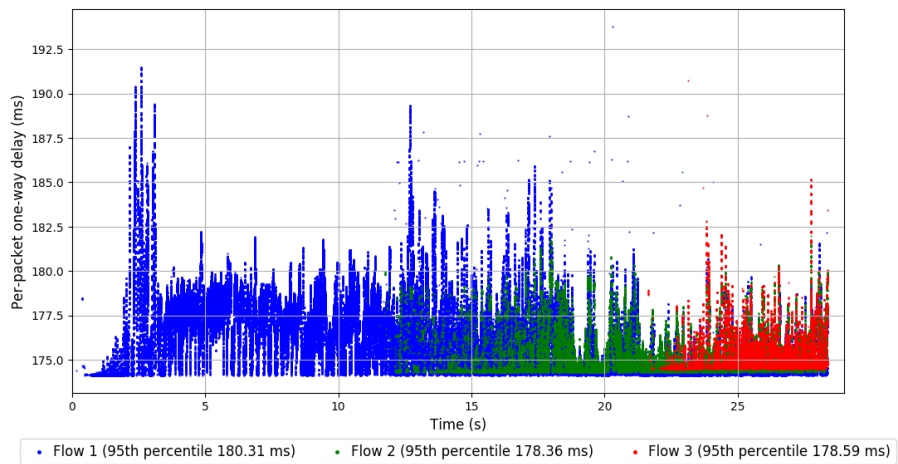
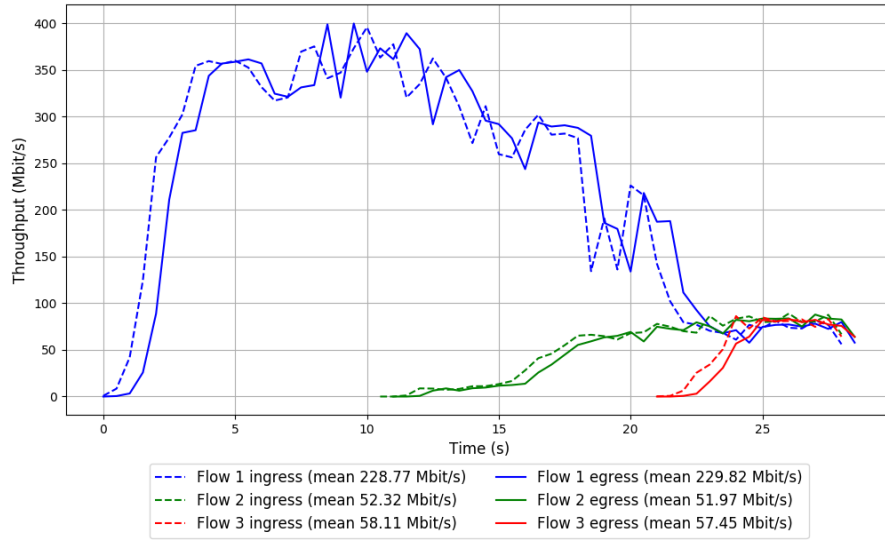


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-12-11 14:50:24
End at: 2019-12-11 14:50:54
Local clock offset: 1.071 ms
Remote clock offset: -79.381 ms

```
# Below is generated by plot.py at 2019-12-11 18:06:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 275.82 Mbit/s
95th percentile per-packet one-way delay: 180.027 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 229.82 Mbit/s
95th percentile per-packet one-way delay: 180.306 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 51.97 Mbit/s
95th percentile per-packet one-way delay: 178.361 ms
Loss rate: 1.89%
-- Flow 3:
Average throughput: 57.45 Mbit/s
95th percentile per-packet one-way delay: 178.591 ms
Loss rate: 3.85%
```

Run 1: Report of Indigo-MusesC5 — Data Link

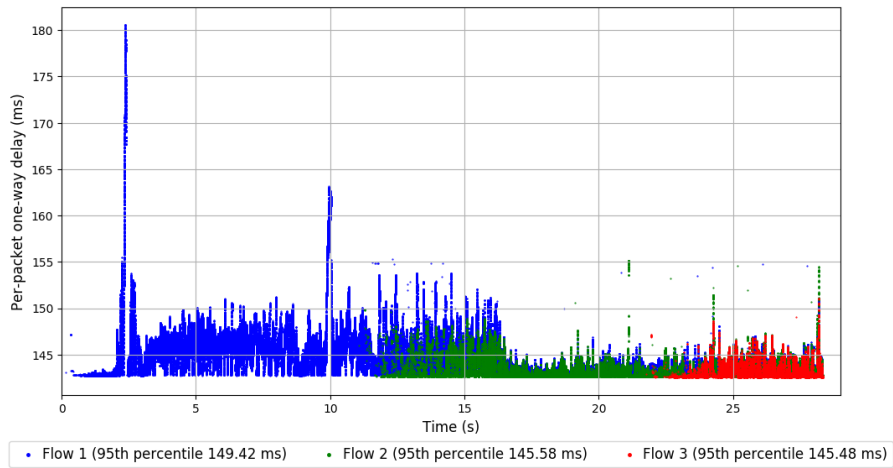
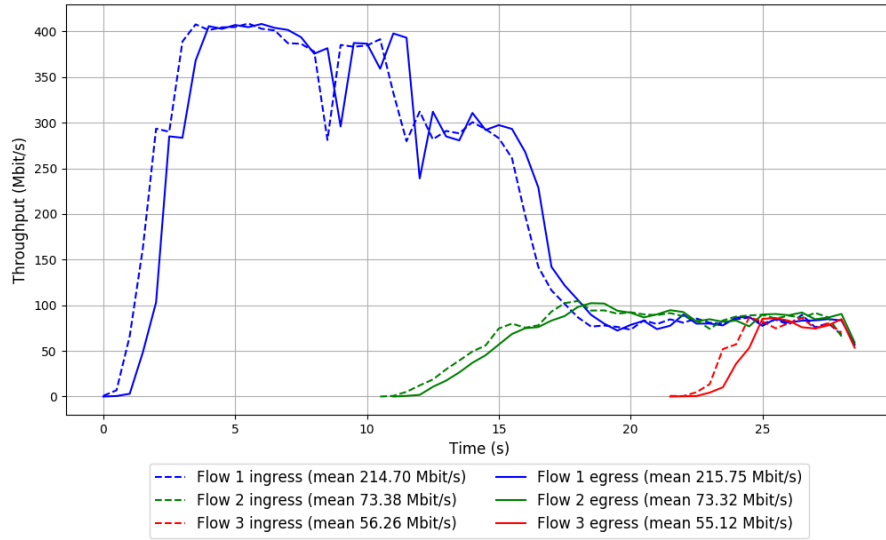


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-12-11 15:25:20
End at: 2019-12-11 15:25:50
Local clock offset: 4.218 ms
Remote clock offset: -45.096 ms

```
# Below is generated by plot.py at 2019-12-11 18:06:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 273.42 Mbit/s
95th percentile per-packet one-way delay: 148.984 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 215.75 Mbit/s
95th percentile per-packet one-way delay: 149.417 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 73.32 Mbit/s
95th percentile per-packet one-way delay: 145.579 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 55.12 Mbit/s
95th percentile per-packet one-way delay: 145.482 ms
Loss rate: 4.99%
```

Run 2: Report of Indigo-MusesC5 — Data Link

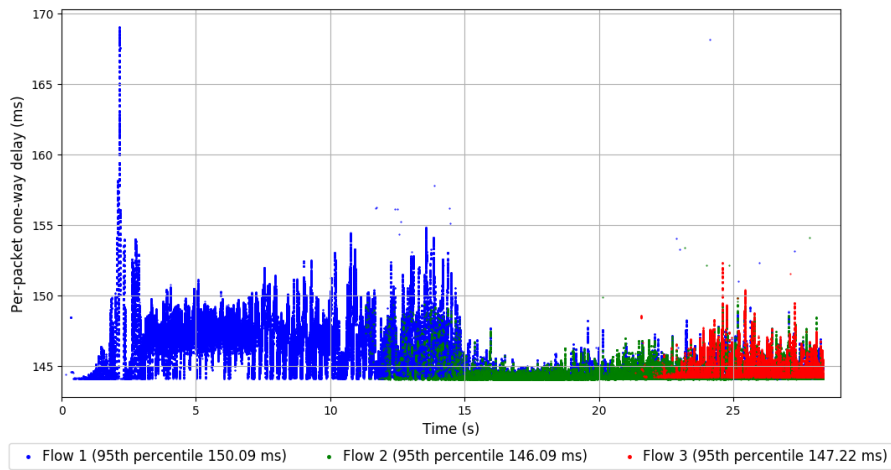
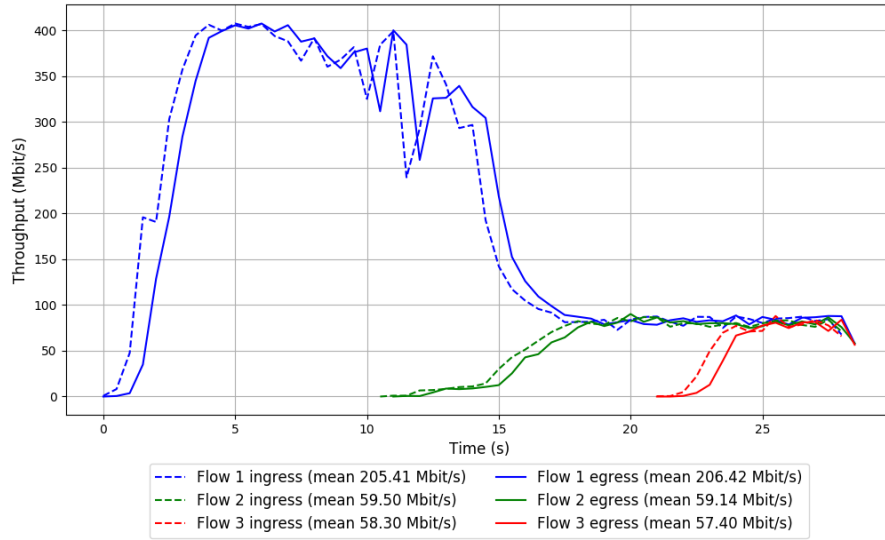


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-12-11 16:00:12
End at: 2019-12-11 16:00:42
Local clock offset: -0.449 ms
Remote clock offset: -48.411 ms

```
# Below is generated by plot.py at 2019-12-11 18:07:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 256.70 Mbit/s
95th percentile per-packet one-way delay: 149.870 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 206.42 Mbit/s
95th percentile per-packet one-way delay: 150.086 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 59.14 Mbit/s
95th percentile per-packet one-way delay: 146.093 ms
Loss rate: 1.78%
-- Flow 3:
Average throughput: 57.40 Mbit/s
95th percentile per-packet one-way delay: 147.217 ms
Loss rate: 4.20%
```

Run 3: Report of Indigo-MusesC5 — Data Link

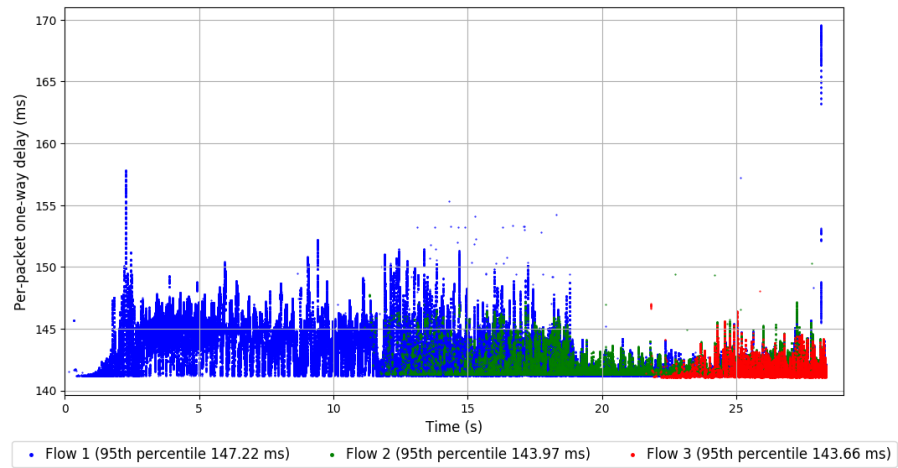
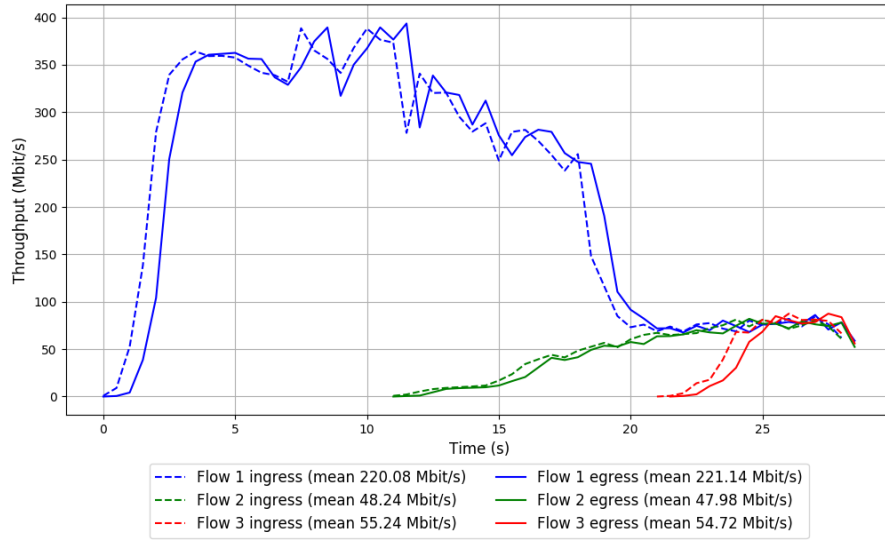


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-12-11 16:35:27
End at: 2019-12-11 16:35:57
Local clock offset: 5.985 ms
Remote clock offset: -40.163 ms

```
# Below is generated by plot.py at 2019-12-11 18:07:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 263.37 Mbit/s
95th percentile per-packet one-way delay: 146.960 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 221.14 Mbit/s
95th percentile per-packet one-way delay: 147.216 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 47.98 Mbit/s
95th percentile per-packet one-way delay: 143.967 ms
Loss rate: 1.72%
-- Flow 3:
Average throughput: 54.72 Mbit/s
95th percentile per-packet one-way delay: 143.663 ms
Loss rate: 3.86%
```

Run 4: Report of Indigo-MusesC5 — Data Link

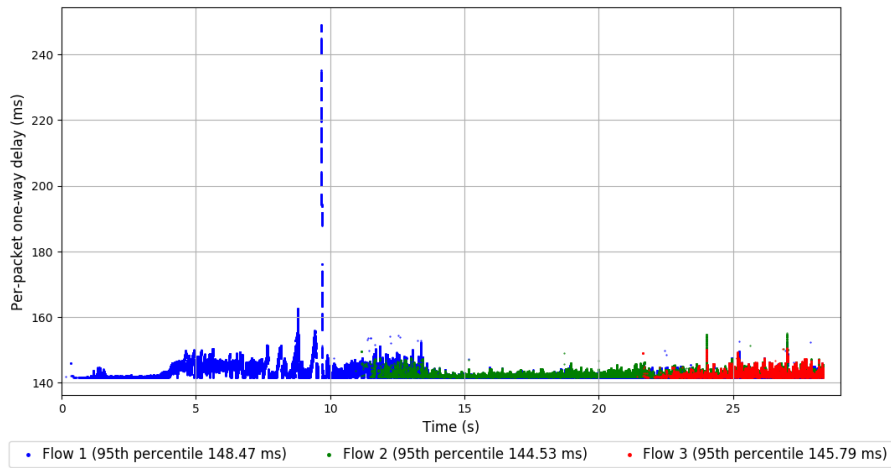
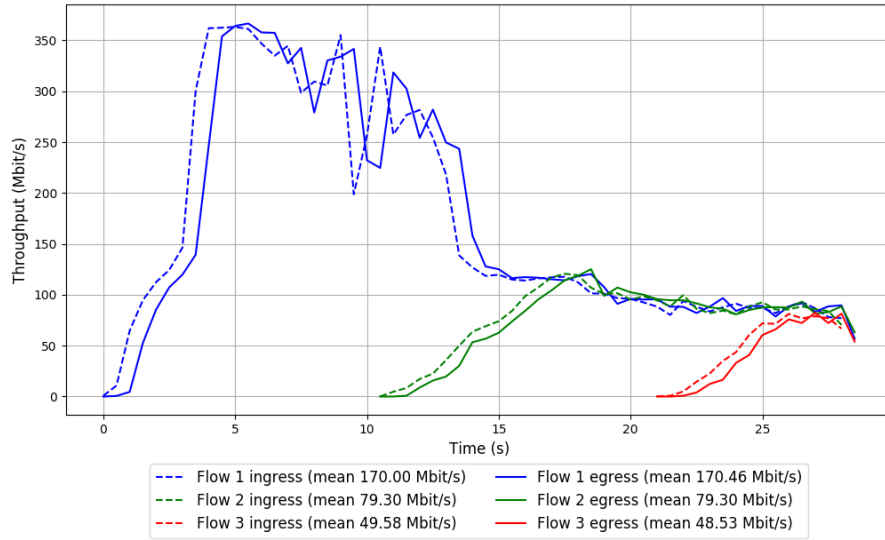


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-12-11 17:10:10
End at: 2019-12-11 17:10:40
Local clock offset: 5.797 ms
Remote clock offset: -40.185 ms

```
# Below is generated by plot.py at 2019-12-11 18:07:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 231.28 Mbit/s
95th percentile per-packet one-way delay: 147.799 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 170.46 Mbit/s
95th percentile per-packet one-way delay: 148.465 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 79.30 Mbit/s
95th percentile per-packet one-way delay: 144.532 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 48.53 Mbit/s
95th percentile per-packet one-way delay: 145.792 ms
Loss rate: 4.85%
```

Run 5: Report of Indigo-MusesC5 — Data Link

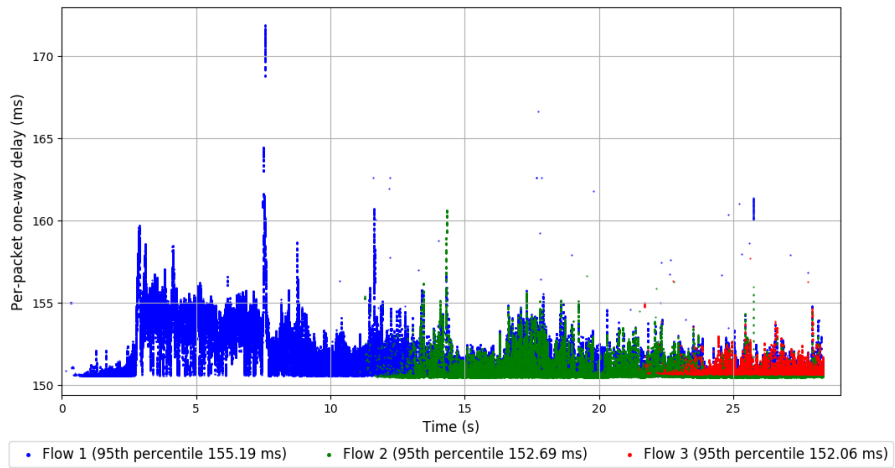
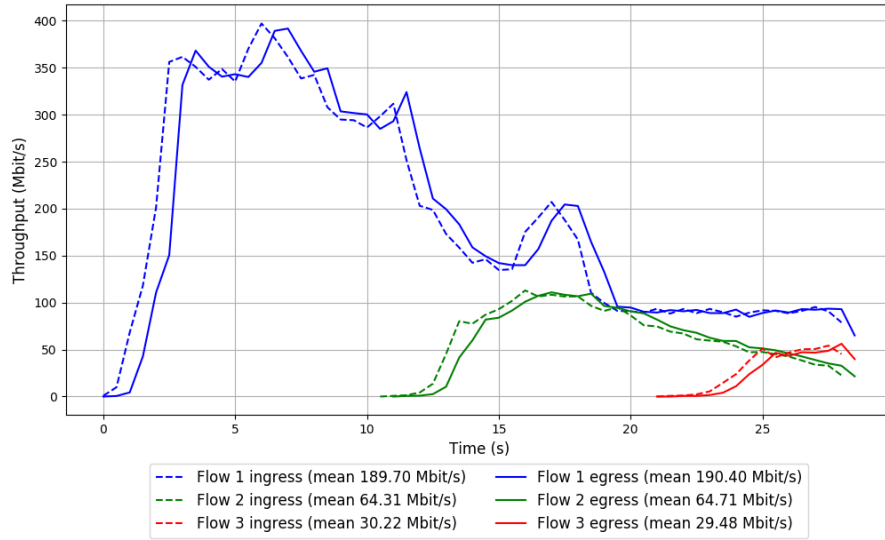


Run 1: Statistics of Indigo-MusesD

Start at: 2019-12-11 15:16:46
End at: 2019-12-11 15:17:16
Local clock offset: 6.69 ms
Remote clock offset: -50.514 ms

```
# Below is generated by plot.py at 2019-12-11 18:07:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 237.09 Mbit/s
95th percentile per-packet one-way delay: 154.998 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 190.40 Mbit/s
95th percentile per-packet one-way delay: 155.190 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 64.71 Mbit/s
95th percentile per-packet one-way delay: 152.688 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 29.48 Mbit/s
95th percentile per-packet one-way delay: 152.061 ms
Loss rate: 5.20%
```

Run 1: Report of Indigo-MusesD — Data Link

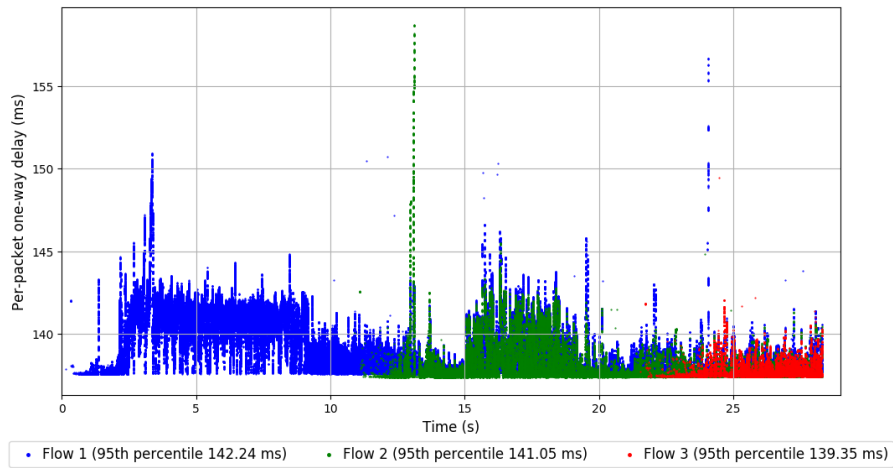
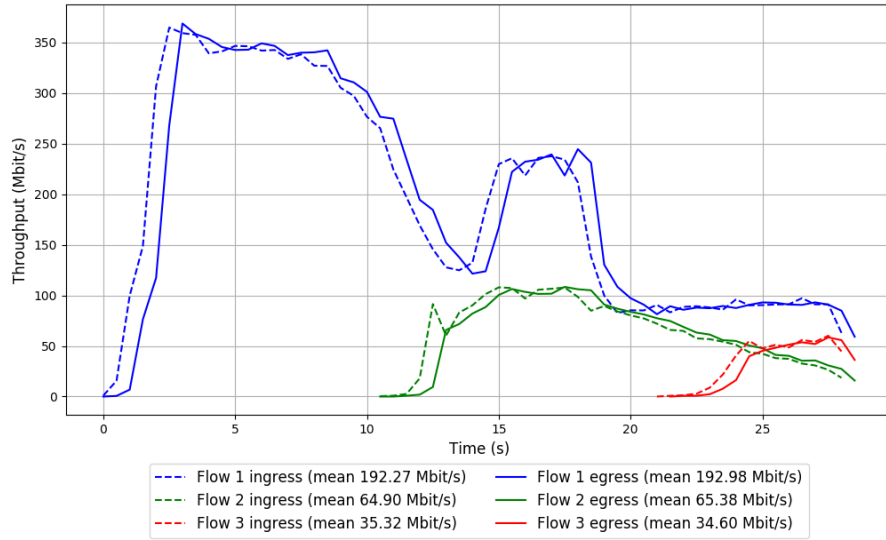


Run 2: Statistics of Indigo-MusesD

Start at: 2019-12-11 15:51:47
End at: 2019-12-11 15:52:17
Local clock offset: 0.511 ms
Remote clock offset: -41.455 ms

```
# Below is generated by plot.py at 2019-12-11 18:08:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 241.70 Mbit/s
95th percentile per-packet one-way delay: 142.122 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 192.98 Mbit/s
95th percentile per-packet one-way delay: 142.242 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 65.38 Mbit/s
95th percentile per-packet one-way delay: 141.046 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 34.60 Mbit/s
95th percentile per-packet one-way delay: 139.346 ms
Loss rate: 4.95%
```

Run 2: Report of Indigo-MusesD — Data Link

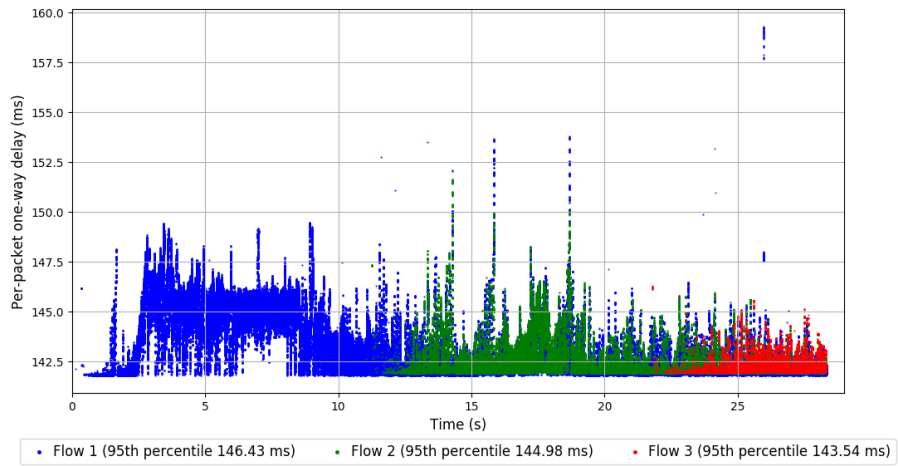
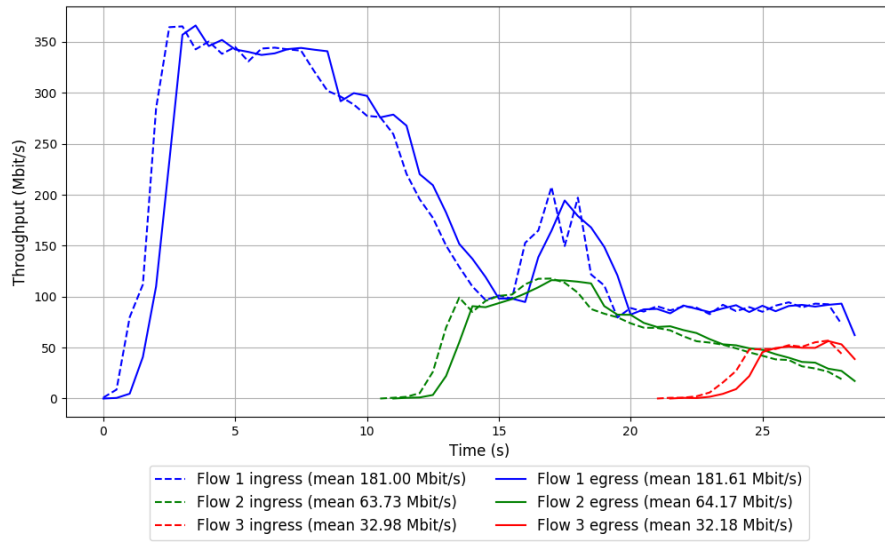


Run 3: Statistics of Indigo-MusesD

Start at: 2019-12-11 16:27:03
End at: 2019-12-11 16:27:33
Local clock offset: 2.181 ms
Remote clock offset: -44.589 ms

Below is generated by plot.py at 2019-12-11 18:08:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 228.60 Mbit/s
95th percentile per-packet one-way delay: 146.264 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 181.61 Mbit/s
95th percentile per-packet one-way delay: 146.433 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 64.17 Mbit/s
95th percentile per-packet one-way delay: 144.983 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 32.18 Mbit/s
95th percentile per-packet one-way delay: 143.539 ms
Loss rate: 5.37%

Run 3: Report of Indigo-MusesD — Data Link

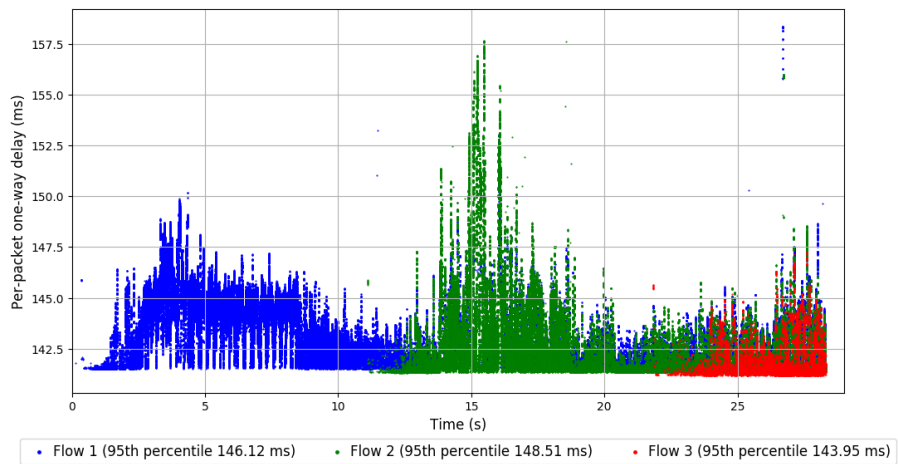
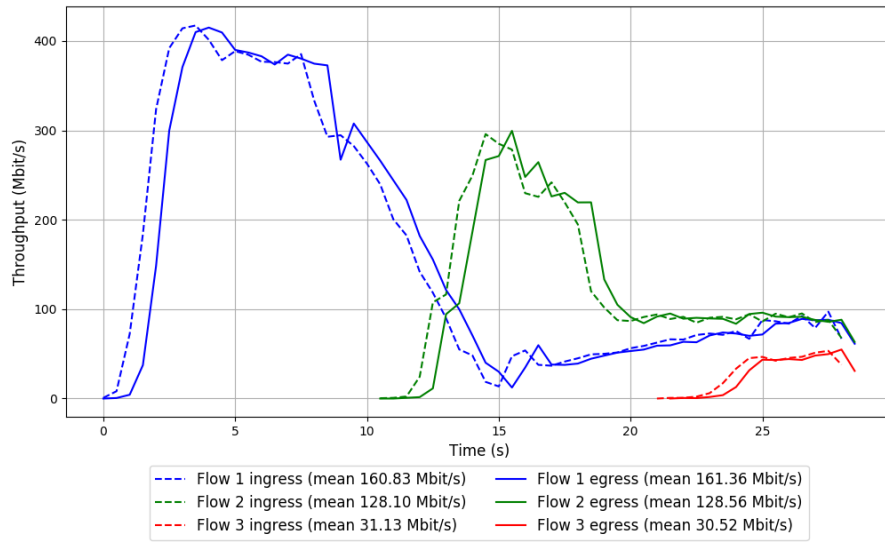


Run 4: Statistics of Indigo-MusesD

Start at: 2019-12-11 17:01:44
End at: 2019-12-11 17:02:14
Local clock offset: 1.667 ms
Remote clock offset: -43.96 ms

```
# Below is generated by plot.py at 2019-12-11 18:09:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 248.08 Mbit/s
95th percentile per-packet one-way delay: 146.572 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 161.36 Mbit/s
95th percentile per-packet one-way delay: 146.125 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 128.56 Mbit/s
95th percentile per-packet one-way delay: 148.507 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 30.52 Mbit/s
95th percentile per-packet one-way delay: 143.950 ms
Loss rate: 4.78%
```

Run 4: Report of Indigo-MusesD — Data Link

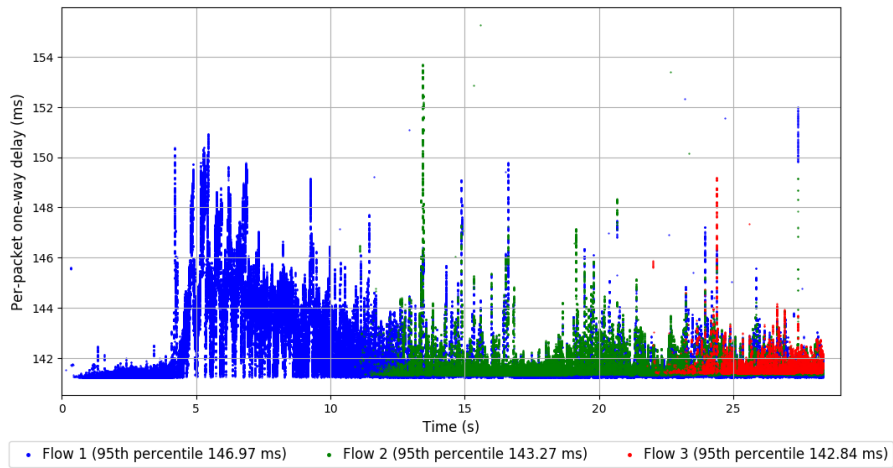
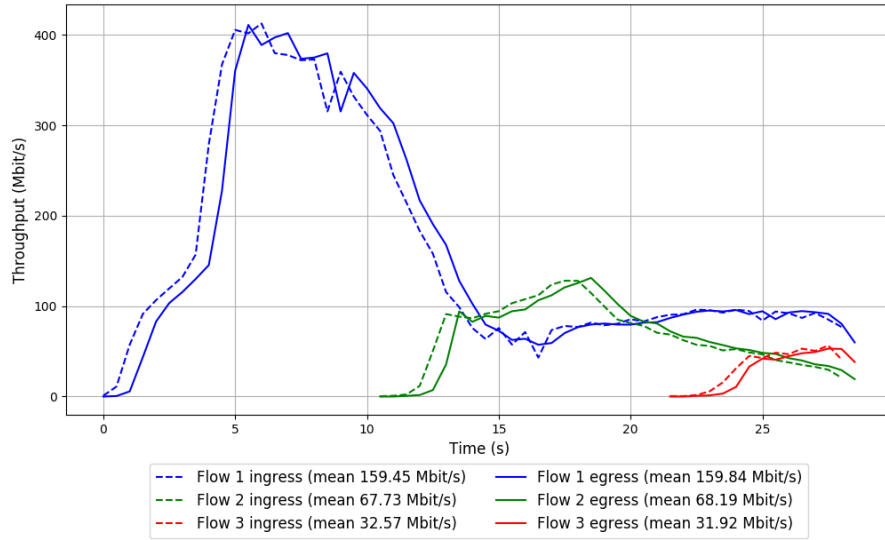


Run 5: Statistics of Indigo-MusesD

Start at: 2019-12-11 17:36:43
End at: 2019-12-11 17:37:13
Local clock offset: 5.829 ms
Remote clock offset: -39.946 ms

```
# Below is generated by plot.py at 2019-12-11 18:09:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 209.41 Mbit/s
95th percentile per-packet one-way delay: 146.564 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 159.84 Mbit/s
95th percentile per-packet one-way delay: 146.967 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 68.19 Mbit/s
95th percentile per-packet one-way delay: 143.267 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 31.92 Mbit/s
95th percentile per-packet one-way delay: 142.835 ms
Loss rate: 4.92%
```

Run 5: Report of Indigo-MusesD — Data Link

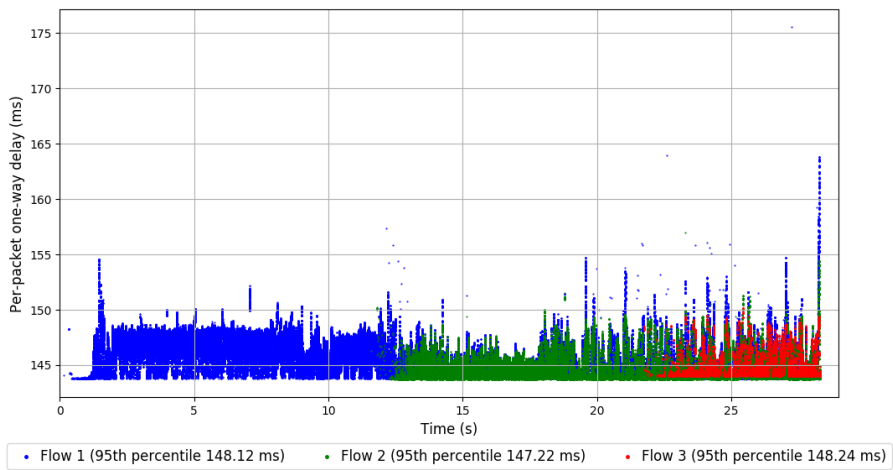
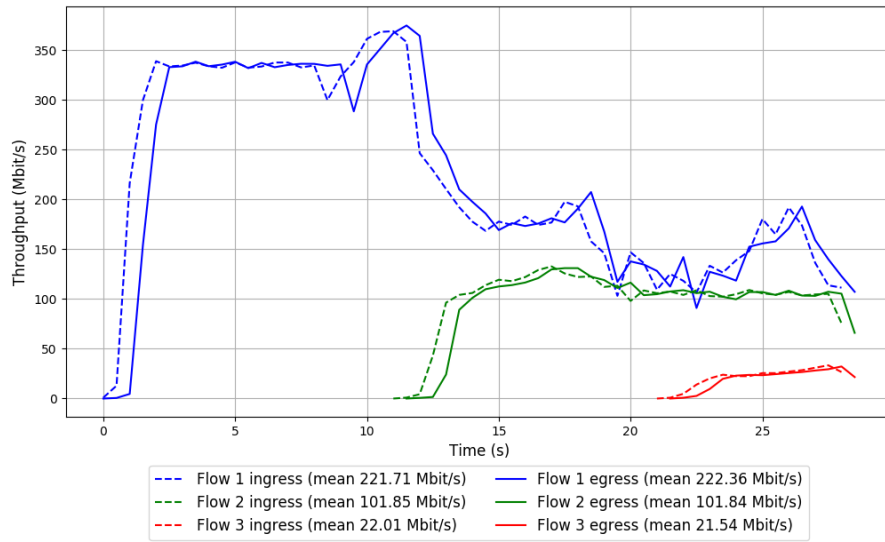


Run 1: Statistics of Indigo-MuseST

Start at: 2019-12-11 15:11:00
End at: 2019-12-11 15:11:30
Local clock offset: 6.404 ms
Remote clock offset: -43.651 ms

```
# Below is generated by plot.py at 2019-12-11 18:10:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 287.95 Mbit/s
95th percentile per-packet one-way delay: 148.061 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 222.36 Mbit/s
95th percentile per-packet one-way delay: 148.119 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 101.84 Mbit/s
95th percentile per-packet one-way delay: 147.223 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 21.54 Mbit/s
95th percentile per-packet one-way delay: 148.237 ms
Loss rate: 4.95%
```

Run 1: Report of Indigo-MusesT — Data Link

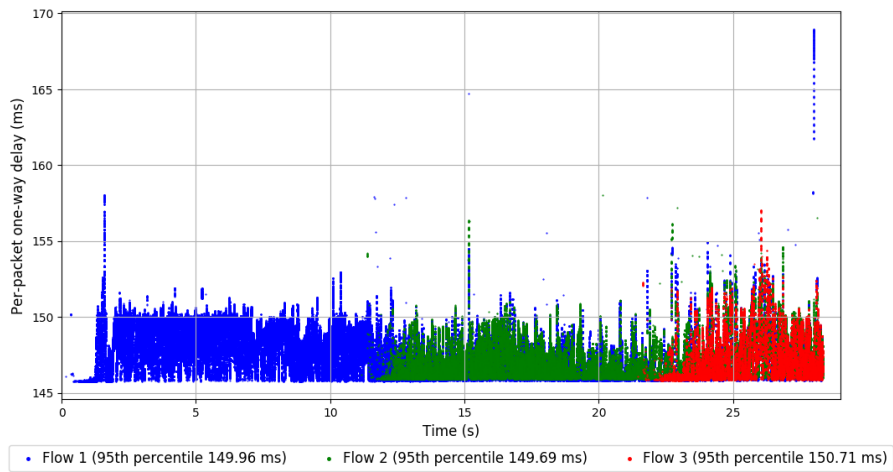
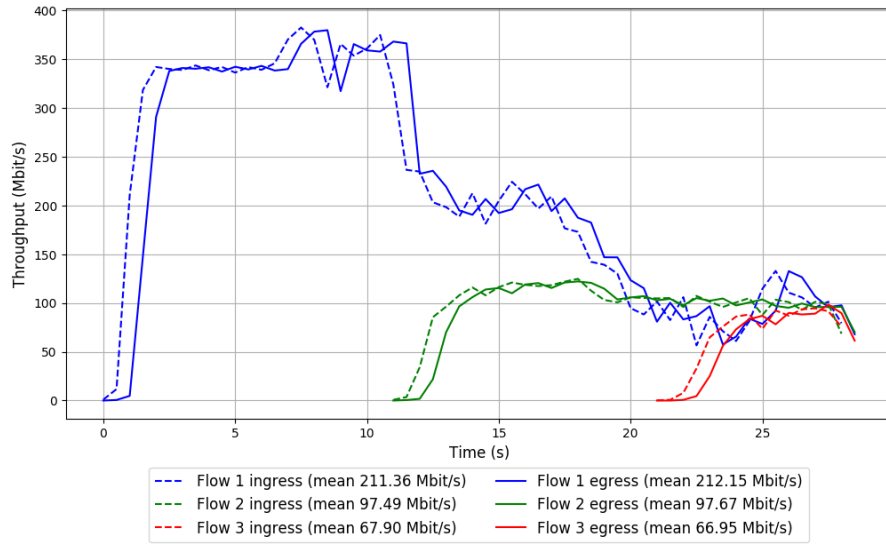


Run 2: Statistics of Indigo-MuseST

Start at: 2019-12-11 15:46:03
End at: 2019-12-11 15:46:33
Local clock offset: 6.246 ms
Remote clock offset: -44.783 ms

```
# Below is generated by plot.py at 2019-12-11 18:11:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 288.00 Mbit/s
95th percentile per-packet one-way delay: 149.958 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 212.15 Mbit/s
95th percentile per-packet one-way delay: 149.956 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 97.67 Mbit/s
95th percentile per-packet one-way delay: 149.687 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 66.95 Mbit/s
95th percentile per-packet one-way delay: 150.710 ms
Loss rate: 4.20%
```

Run 2: Report of Indigo-MusesT — Data Link

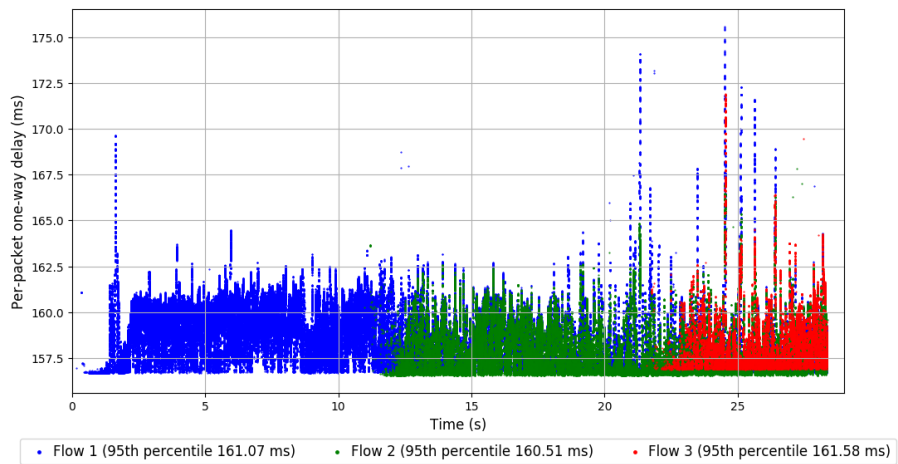
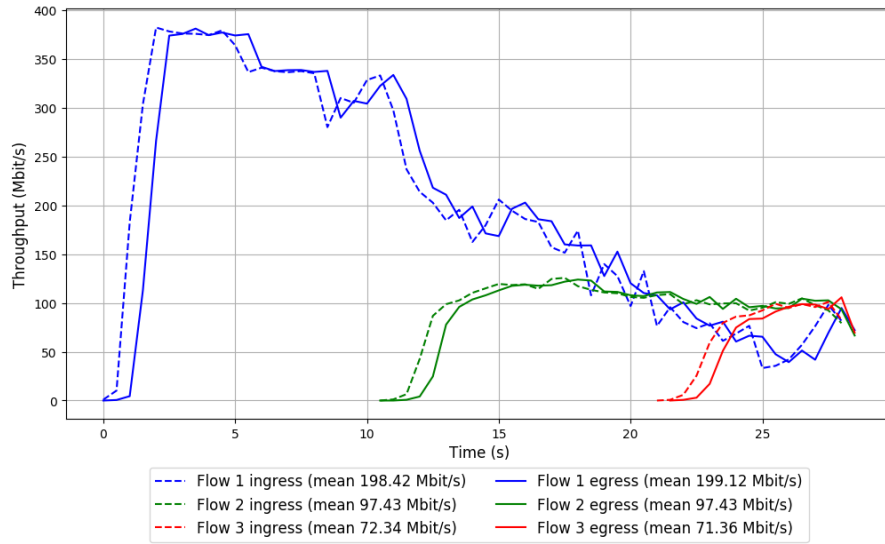


Run 3: Statistics of Indigo-MuseST

Start at: 2019-12-11 16:21:16
End at: 2019-12-11 16:21:47
Local clock offset: 5.882 ms
Remote clock offset: -55.49 ms

```
# Below is generated by plot.py at 2019-12-11 18:11:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 276.25 Mbit/s
95th percentile per-packet one-way delay: 161.015 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 199.12 Mbit/s
95th percentile per-packet one-way delay: 161.075 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 97.43 Mbit/s
95th percentile per-packet one-way delay: 160.509 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 71.36 Mbit/s
95th percentile per-packet one-way delay: 161.583 ms
Loss rate: 4.13%
```

Run 3: Report of Indigo-MusesT — Data Link

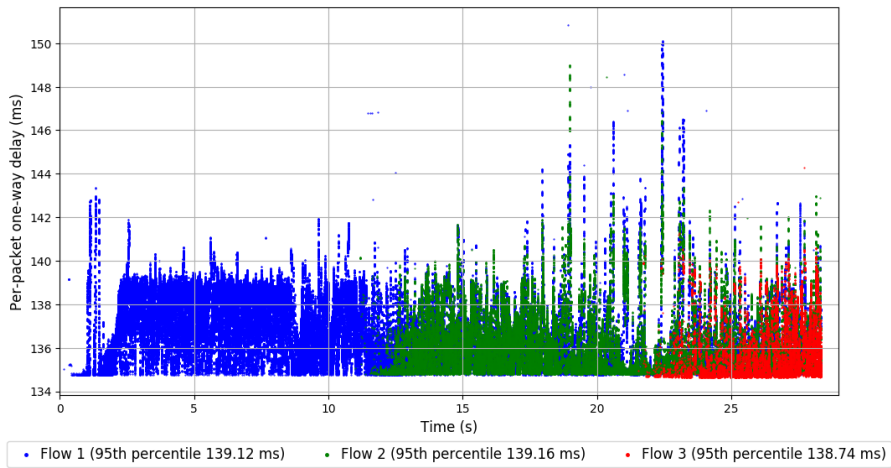
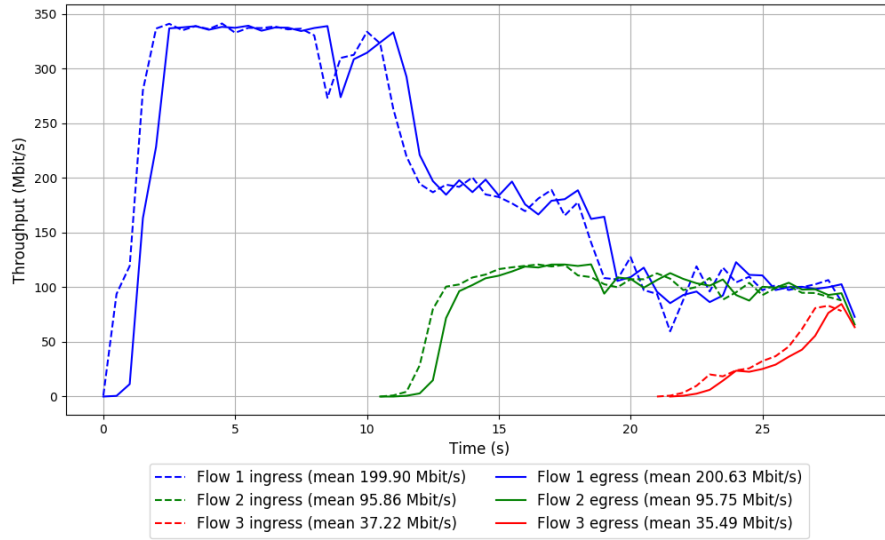


Run 4: Statistics of Indigo-MuseST

Start at: 2019-12-11 16:55:59
End at: 2019-12-11 16:56:29
Local clock offset: 1.635 ms
Remote clock offset: -37.51 ms

```
# Below is generated by plot.py at 2019-12-11 18:11:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 267.99 Mbit/s
95th percentile per-packet one-way delay: 139.113 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 200.63 Mbit/s
95th percentile per-packet one-way delay: 139.115 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 95.75 Mbit/s
95th percentile per-packet one-way delay: 139.160 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 35.49 Mbit/s
95th percentile per-packet one-way delay: 138.736 ms
Loss rate: 7.19%
```

Run 4: Report of Indigo-MusesT — Data Link

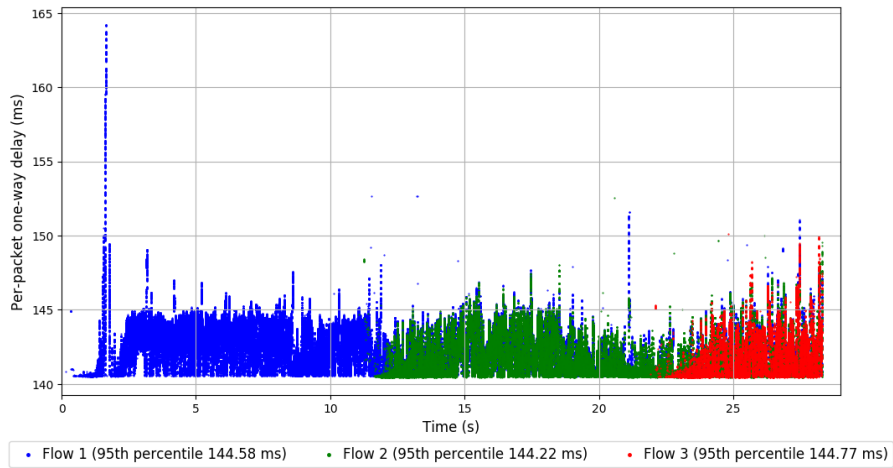
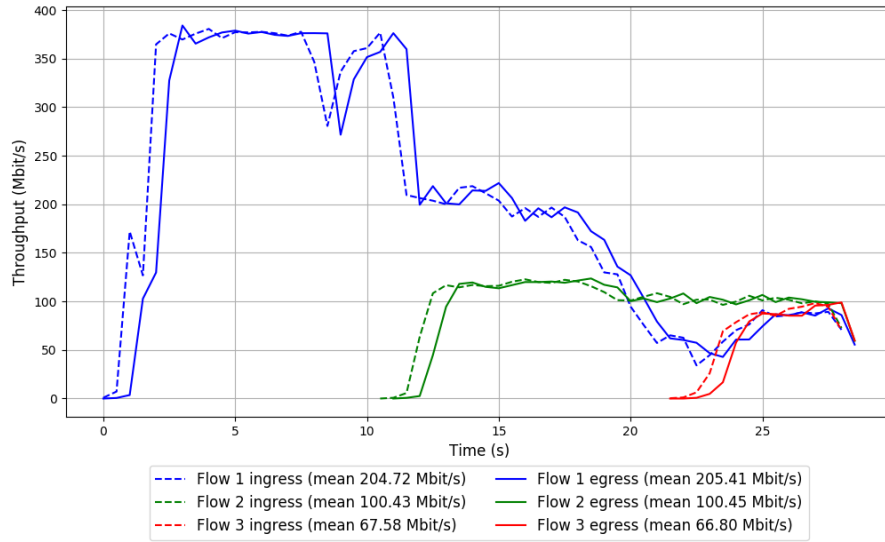


Run 5: Statistics of Indigo-MuseST

Start at: 2019-12-11 17:31:00
End at: 2019-12-11 17:31:30
Local clock offset: 5.213 ms
Remote clock offset: -39.773 ms

```
# Below is generated by plot.py at 2019-12-11 18:11:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 282.11 Mbit/s
95th percentile per-packet one-way delay: 144.528 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 205.41 Mbit/s
95th percentile per-packet one-way delay: 144.583 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 100.45 Mbit/s
95th percentile per-packet one-way delay: 144.219 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 66.80 Mbit/s
95th percentile per-packet one-way delay: 144.772 ms
Loss rate: 4.17%
```

Run 5: Report of Indigo-MusesT — Data Link

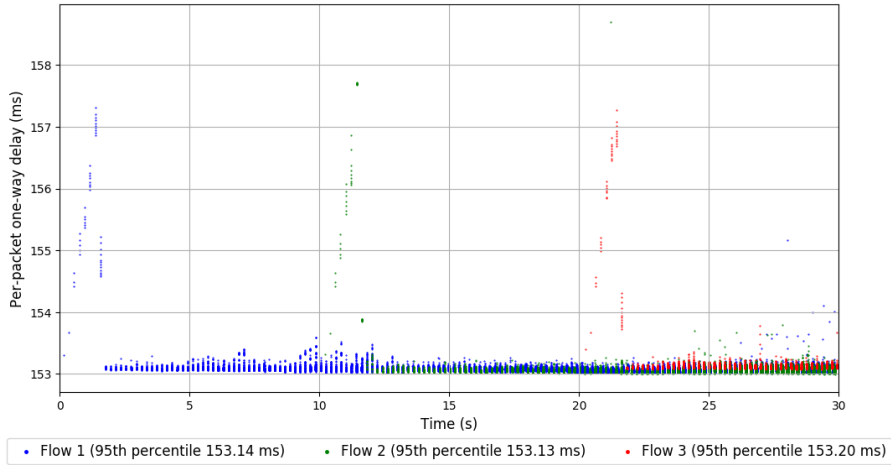
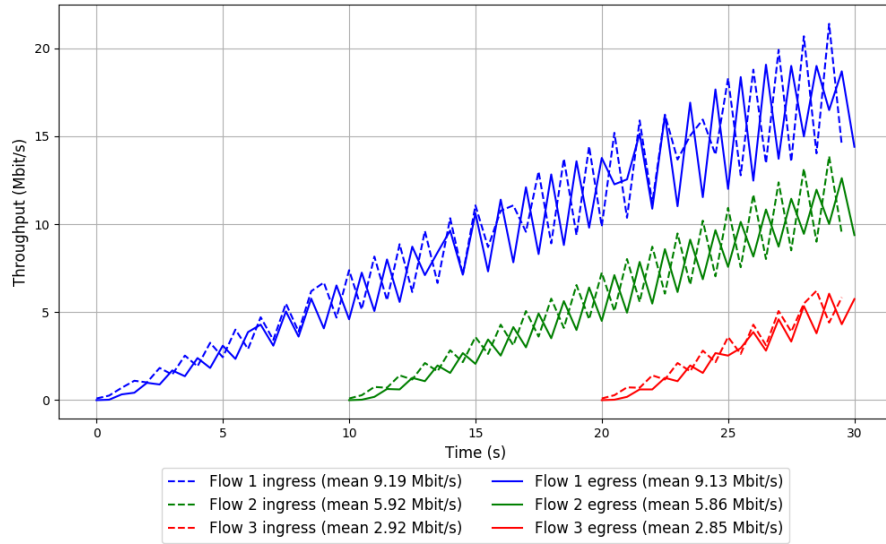


Run 1: Statistics of LEDBAT

Start at: 2019-12-11 15:08:24
End at: 2019-12-11 15:08:54
Local clock offset: 6.411 ms
Remote clock offset: -52.67 ms

```
# Below is generated by plot.py at 2019-12-11 18:11:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.89 Mbit/s
95th percentile per-packet one-way delay: 153.147 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 9.13 Mbit/s
95th percentile per-packet one-way delay: 153.140 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 5.86 Mbit/s
95th percentile per-packet one-way delay: 153.130 ms
Loss rate: 2.03%
-- Flow 3:
Average throughput: 2.85 Mbit/s
95th percentile per-packet one-way delay: 153.201 ms
Loss rate: 4.03%
```

Run 1: Report of LEDBAT — Data Link

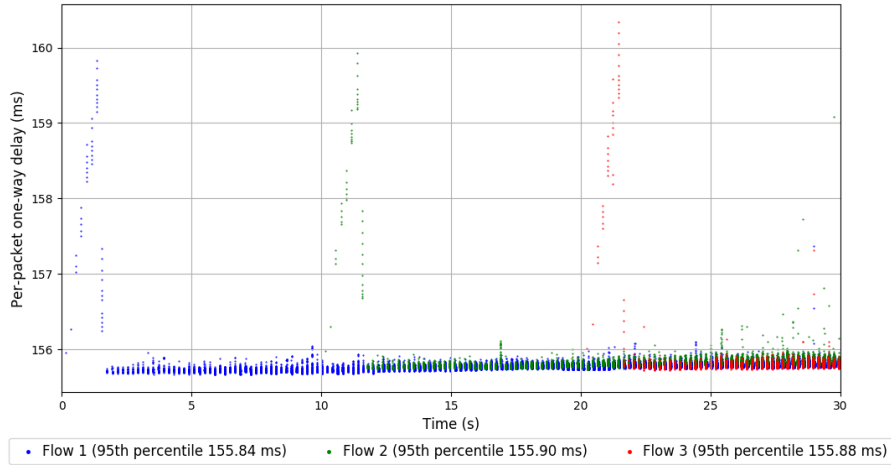
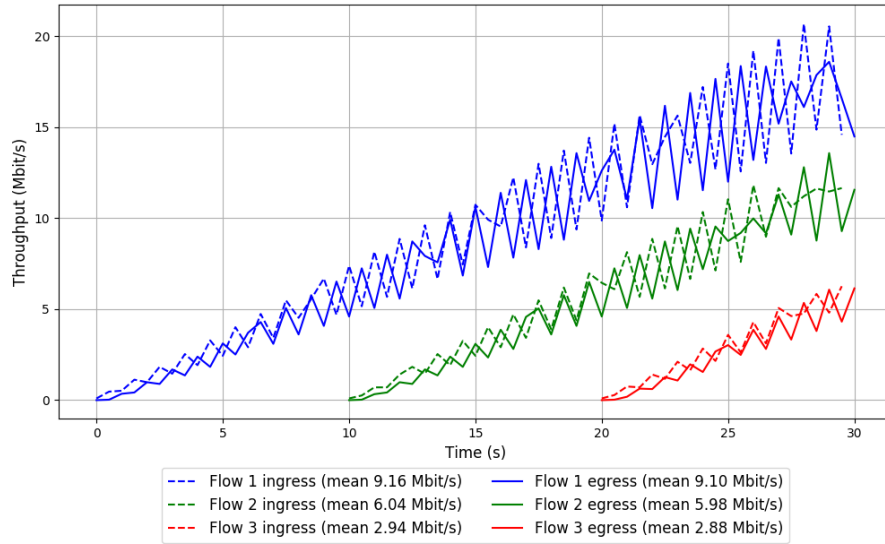


Run 2: Statistics of LEDBAT

Start at: 2019-12-11 15:43:28
End at: 2019-12-11 15:43:58
Local clock offset: 5.858 ms
Remote clock offset: -55.312 ms

```
# Below is generated by plot.py at 2019-12-11 18:11:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.01 Mbit/s
95th percentile per-packet one-way delay: 155.869 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 9.10 Mbit/s
95th percentile per-packet one-way delay: 155.841 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 5.98 Mbit/s
95th percentile per-packet one-way delay: 155.901 ms
Loss rate: 1.99%
-- Flow 3:
Average throughput: 2.88 Mbit/s
95th percentile per-packet one-way delay: 155.877 ms
Loss rate: 4.03%
```

Run 2: Report of LEDBAT — Data Link

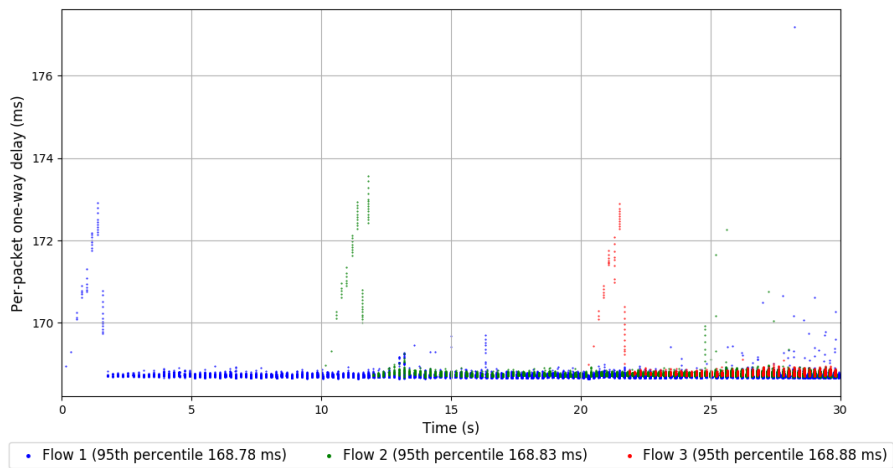
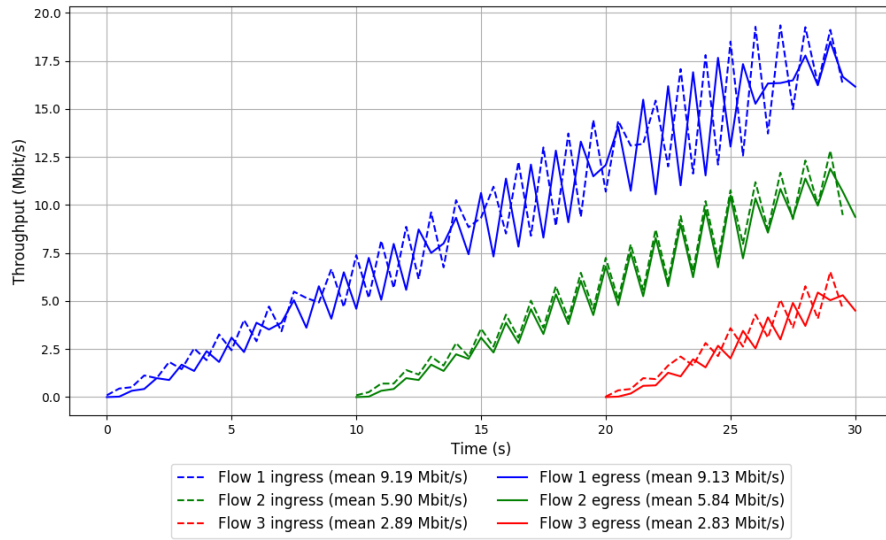


Run 3: Statistics of LEDBAT

Start at: 2019-12-11 16:18:41
End at: 2019-12-11 16:19:11
Local clock offset: 5.688 ms
Remote clock offset: -67.69 ms

```
# Below is generated by plot.py at 2019-12-11 18:11:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.89 Mbit/s
95th percentile per-packet one-way delay: 168.815 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 9.13 Mbit/s
95th percentile per-packet one-way delay: 168.784 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 5.84 Mbit/s
95th percentile per-packet one-way delay: 168.832 ms
Loss rate: 2.03%
-- Flow 3:
Average throughput: 2.83 Mbit/s
95th percentile per-packet one-way delay: 168.876 ms
Loss rate: 4.12%
```

Run 3: Report of LEDBAT — Data Link

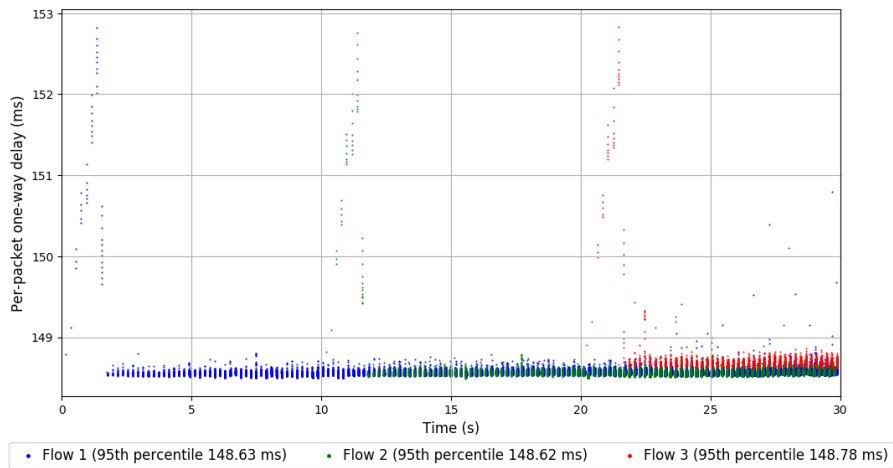
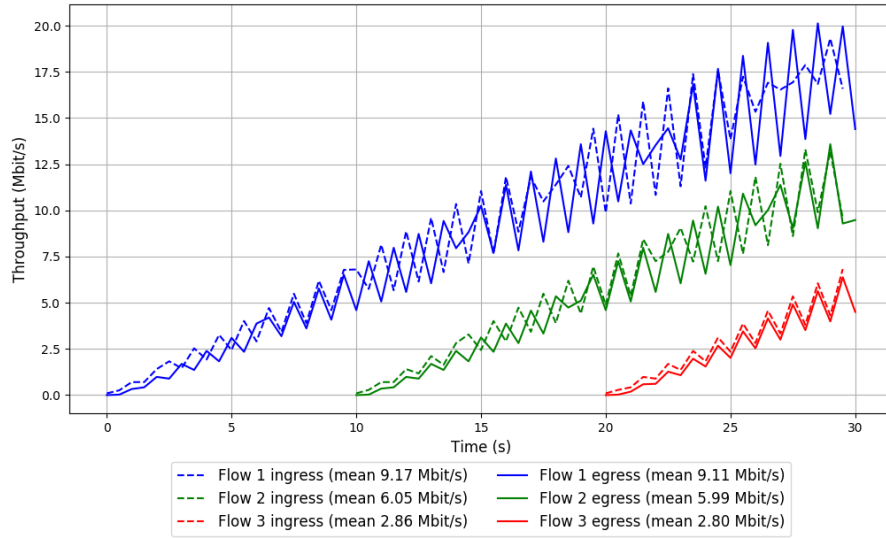


Run 4: Statistics of LEDBAT

Start at: 2019-12-11 16:53:24
End at: 2019-12-11 16:53:54
Local clock offset: 6.156 ms
Remote clock offset: -46.751 ms

```
# Below is generated by plot.py at 2019-12-11 18:11:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.97 Mbit/s
95th percentile per-packet one-way delay: 148.674 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 9.11 Mbit/s
95th percentile per-packet one-way delay: 148.629 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 5.99 Mbit/s
95th percentile per-packet one-way delay: 148.615 ms
Loss rate: 2.01%
-- Flow 3:
Average throughput: 2.80 Mbit/s
95th percentile per-packet one-way delay: 148.777 ms
Loss rate: 4.12%
```

Run 4: Report of LEDBAT — Data Link

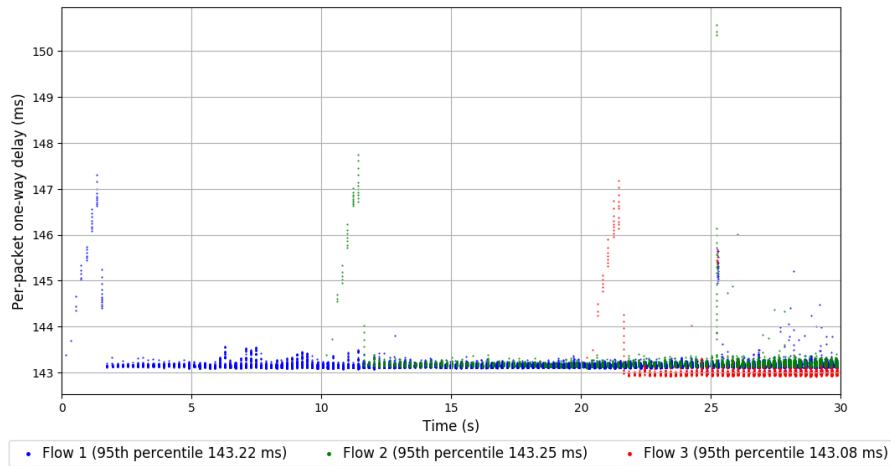
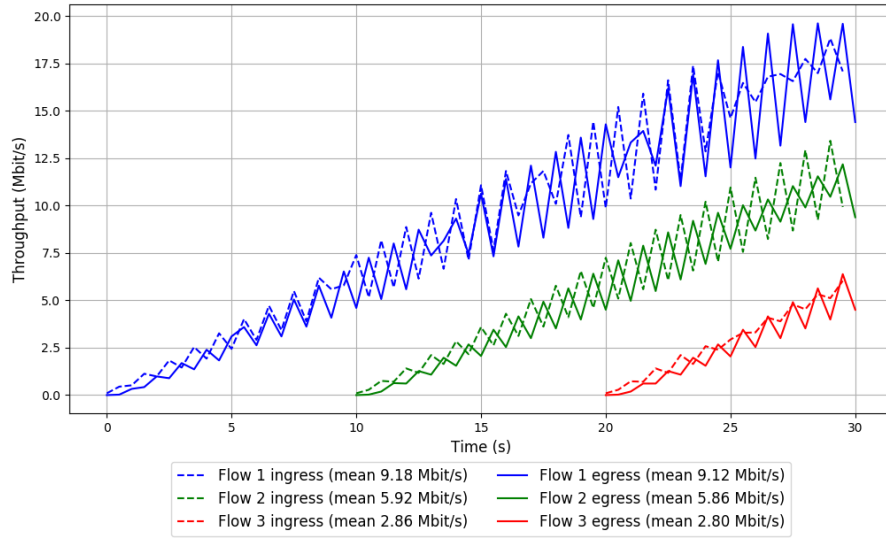


Run 5: Statistics of LEDBAT

Start at: 2019-12-11 17:28:24
End at: 2019-12-11 17:28:54
Local clock offset: 1.444 ms
Remote clock offset: -45.98 ms

```
# Below is generated by plot.py at 2019-12-11 18:11:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.90 Mbit/s
95th percentile per-packet one-way delay: 143.228 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 9.12 Mbit/s
95th percentile per-packet one-way delay: 143.219 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 5.86 Mbit/s
95th percentile per-packet one-way delay: 143.247 ms
Loss rate: 2.02%
-- Flow 3:
Average throughput: 2.80 Mbit/s
95th percentile per-packet one-way delay: 143.082 ms
Loss rate: 4.12%
```

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses_DecisionTree

Start at: 2019-12-11 15:03:50
End at: 2019-12-11 15:04:21
Local clock offset: 1.469 ms
Remote clock offset: -46.238 ms

Below is generated by plot.py at 2019-12-11 18:12:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 245.15 Mbit/s
95th percentile per-packet one-way delay: 146.152 ms
Loss rate: 0.47%

-- Flow 1:

Average throughput: 195.92 Mbit/s
95th percentile per-packet one-way delay: 146.632 ms
Loss rate: 0.21%

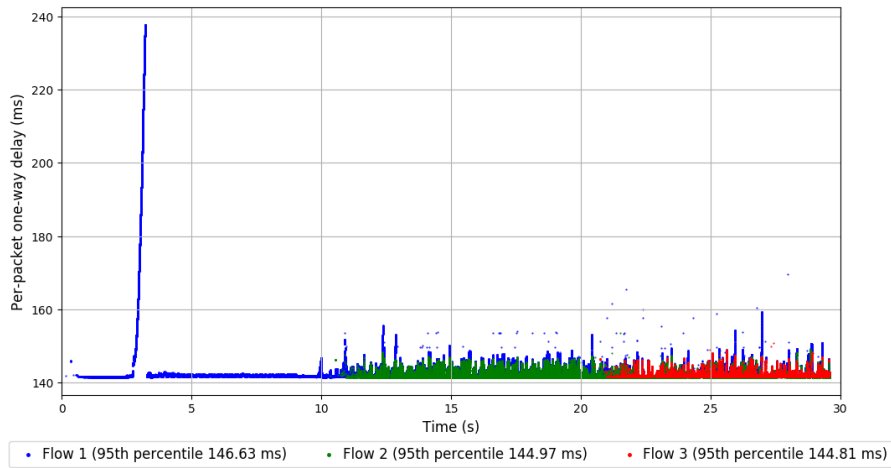
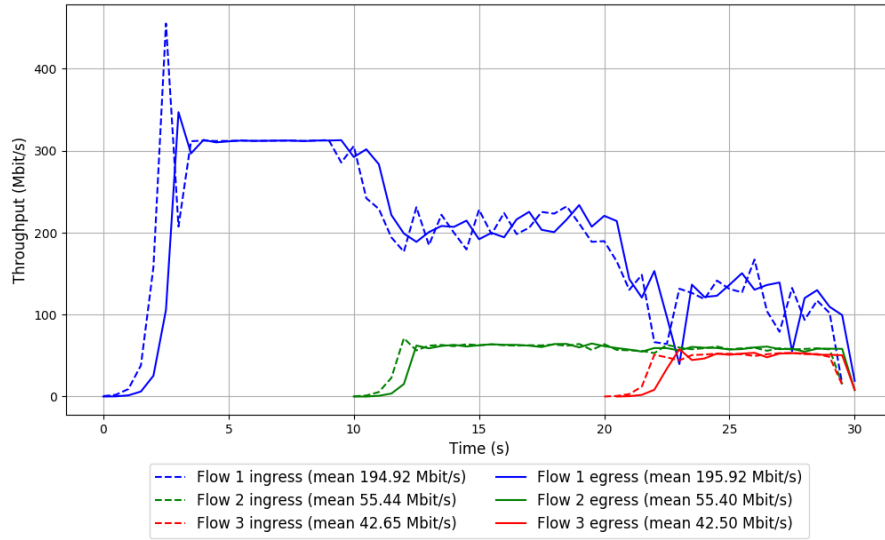
-- Flow 2:

Average throughput: 55.40 Mbit/s
95th percentile per-packet one-way delay: 144.966 ms
Loss rate: 1.08%

-- Flow 3:

Average throughput: 42.50 Mbit/s
95th percentile per-packet one-way delay: 144.810 ms
Loss rate: 2.59%

Run 1: Report of Muses_DecisionTree — Data Link

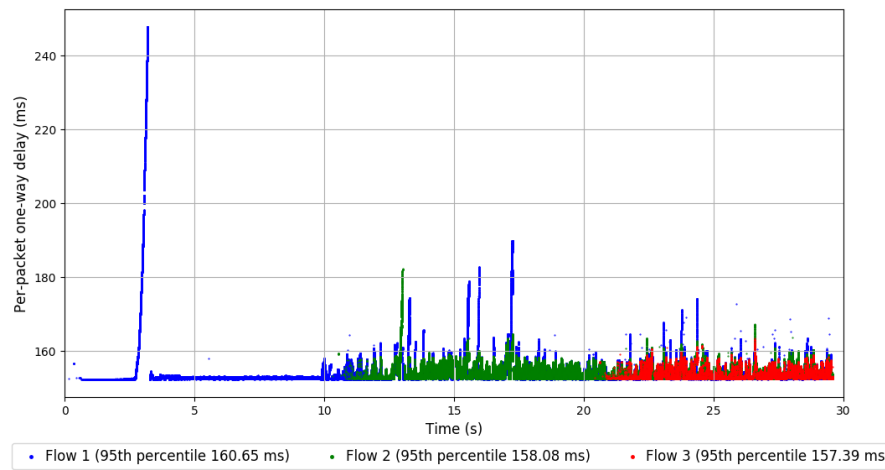
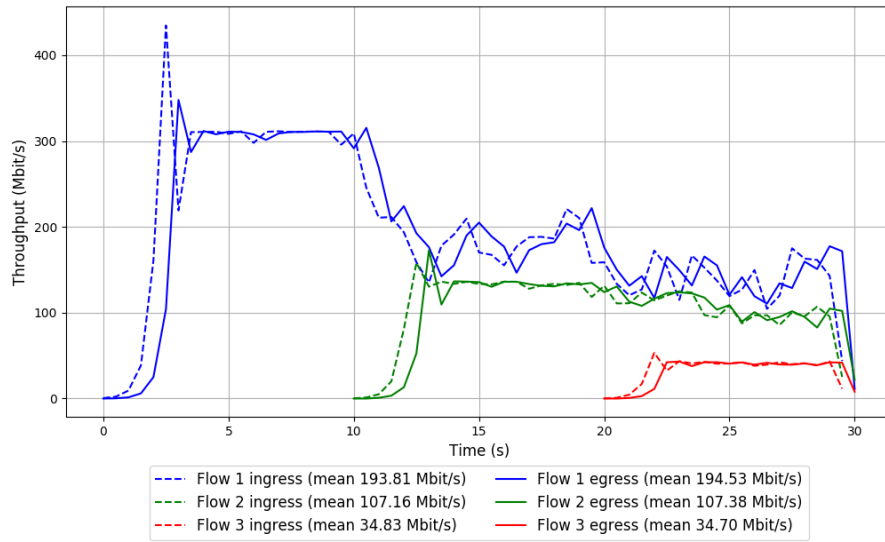


Run 2: Statistics of Muses_DecisionTree

Start at: 2019-12-11 15:38:55
End at: 2019-12-11 15:39:25
Local clock offset: 7.949 ms
Remote clock offset: -51.051 ms

Below is generated by plot.py at 2019-12-11 18:12:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 275.19 Mbit/s
95th percentile per-packet one-way delay: 159.409 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 194.53 Mbit/s
95th percentile per-packet one-way delay: 160.652 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 107.38 Mbit/s
95th percentile per-packet one-way delay: 158.076 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 34.70 Mbit/s
95th percentile per-packet one-way delay: 157.390 ms
Loss rate: 2.50%

Run 2: Report of Muses_DecisionTree — Data Link



Run 3: Statistics of Muses_DecisionTree

Start at: 2019-12-11 16:14:01
End at: 2019-12-11 16:14:31
Local clock offset: 2.991 ms
Remote clock offset: -40.674 ms

Below is generated by plot.py at 2019-12-11 18:12:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 262.10 Mbit/s
95th percentile per-packet one-way delay: 147.402 ms
Loss rate: 0.74%

-- Flow 1:

Average throughput: 193.77 Mbit/s
95th percentile per-packet one-way delay: 149.189 ms
Loss rate: 0.59%

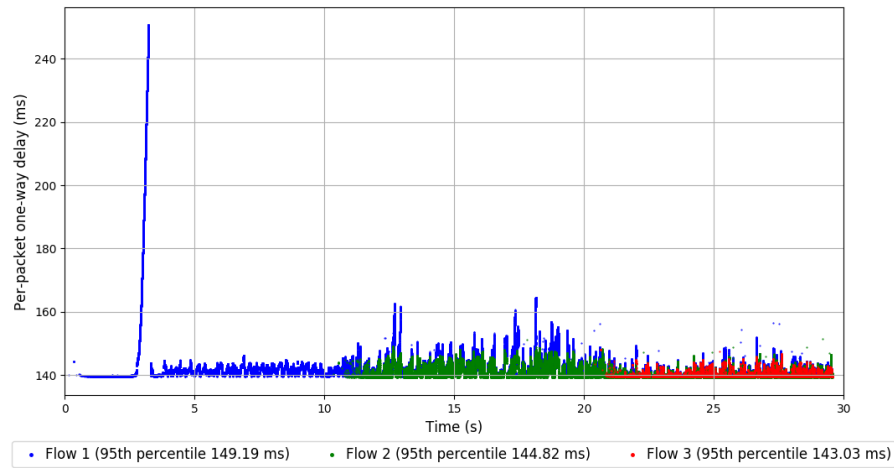
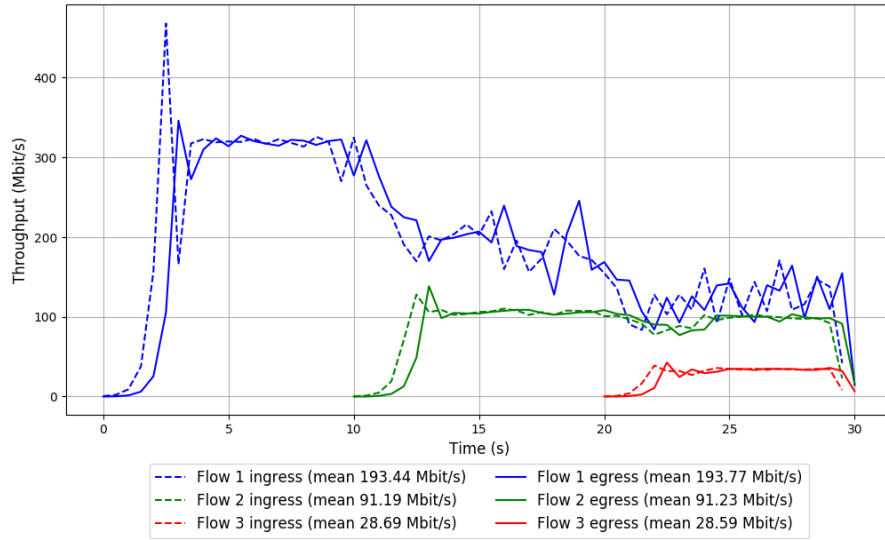
-- Flow 2:

Average throughput: 91.23 Mbit/s
95th percentile per-packet one-way delay: 144.817 ms
Loss rate: 1.00%

-- Flow 3:

Average throughput: 28.59 Mbit/s
95th percentile per-packet one-way delay: 143.035 ms
Loss rate: 2.43%

Run 3: Report of Muses_DecisionTree — Data Link

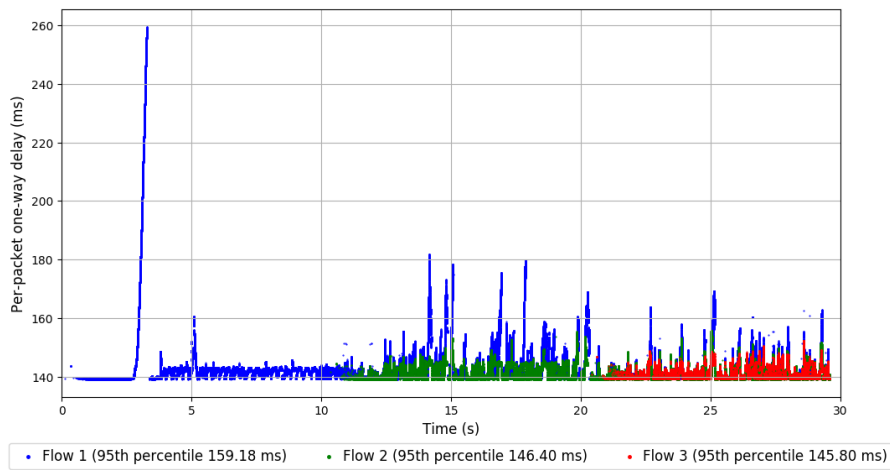
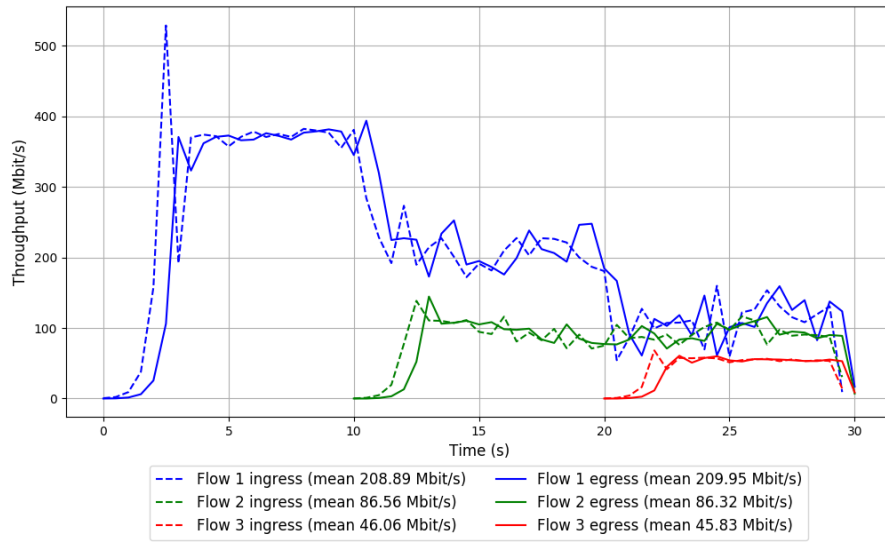


Run 4: Statistics of Muses_DecisionTree

Start at: 2019-12-11 16:48:46
End at: 2019-12-11 16:49:16
Local clock offset: 3.599 ms
Remote clock offset: -40.073 ms

Below is generated by plot.py at 2019-12-11 18:14:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 280.49 Mbit/s
95th percentile per-packet one-way delay: 155.027 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 209.95 Mbit/s
95th percentile per-packet one-way delay: 159.178 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 86.32 Mbit/s
95th percentile per-packet one-way delay: 146.403 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 45.83 Mbit/s
95th percentile per-packet one-way delay: 145.797 ms
Loss rate: 2.61%

Run 4: Report of Muses_DecisionTree — Data Link

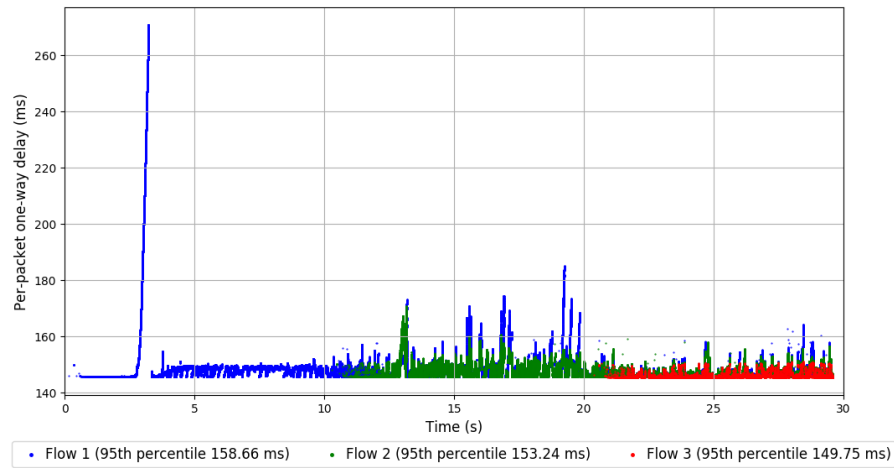
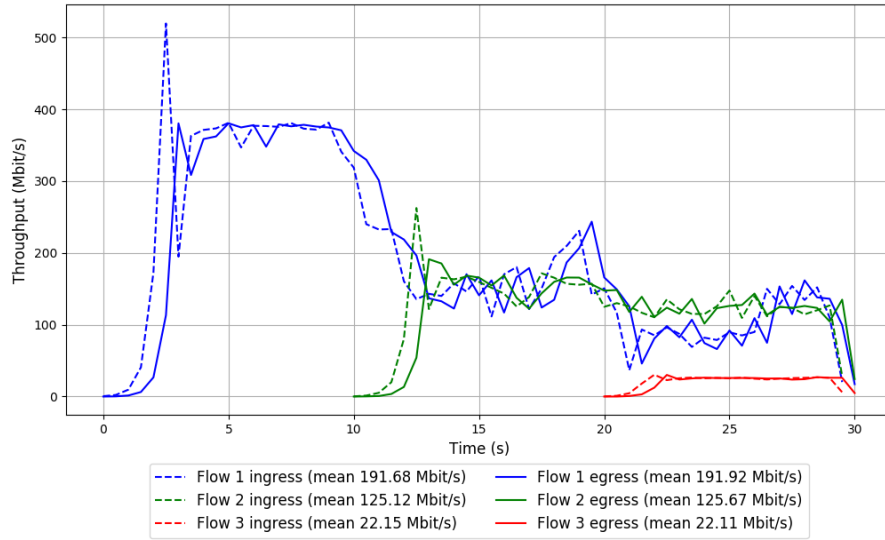


Run 5: Statistics of Muses_DecisionTree

Start at: 2019-12-11 17:23:48
End at: 2019-12-11 17:24:18
Local clock offset: 5.764 ms
Remote clock offset: -44.222 ms

Below is generated by plot.py at 2019-12-11 18:14:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 281.19 Mbit/s
95th percentile per-packet one-way delay: 155.949 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 191.92 Mbit/s
95th percentile per-packet one-way delay: 158.657 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 125.67 Mbit/s
95th percentile per-packet one-way delay: 153.240 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 22.11 Mbit/s
95th percentile per-packet one-way delay: 149.747 ms
Loss rate: 2.25%

Run 5: Report of Muses_DecisionTree — Data Link



Run 1: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 15:09:44

End at: 2019-12-11 15:10:14

Local clock offset: 6.529 ms

Remote clock offset: -70.641 ms

Run 1: Report of Muses_DecisionTreeH0 — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 15:44:48

End at: 2019-12-11 15:45:18

Local clock offset: 2.082 ms

Remote clock offset: -48.955 ms

Run 2: Report of Muses_DecisionTreeH0 — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 16:20:01

End at: 2019-12-11 16:20:31

Local clock offset: 1.244 ms

Remote clock offset: -43.619 ms

Run 3: Report of Muses_DecisionTreeH0 — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 16:54:43

End at: 2019-12-11 16:55:13

Local clock offset: 5.919 ms

Remote clock offset: -47.277 ms

Run 4: Report of Muses_DecisionTreeH0 — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 17:29:44

End at: 2019-12-11 17:30:14

Local clock offset: 5.851 ms

Remote clock offset: -37.261 ms

Run 5: Report of Muses_DecisionTreeH0 — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 15:24:04

End at: 2019-12-11 15:24:35

Local clock offset: 2.07 ms

Remote clock offset: -48.023 ms

Run 1: Report of Muses_DecisionTreeR0 — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 15:58:57

End at: 2019-12-11 15:59:27

Local clock offset: 4.772 ms

Remote clock offset: -37.476 ms

Run 2: Report of Muses_DecisionTreeR0 — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 16:34:12

End at: 2019-12-11 16:34:42

Local clock offset: 5.864 ms

Remote clock offset: -48.856 ms

Run 3: Report of Muses_DecisionTreeR0 — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 17:08:54

End at: 2019-12-11 17:09:24

Local clock offset: 5.297 ms

Remote clock offset: -47.891 ms

Run 4: Report of Muses_DecisionTreeR0 — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 17:43:51

End at: 2019-12-11 17:44:21

Local clock offset: 5.093 ms

Remote clock offset: -39.347 ms

Run 5: Report of Muses_DecisionTreeR0 — Data Link

Figure is missing

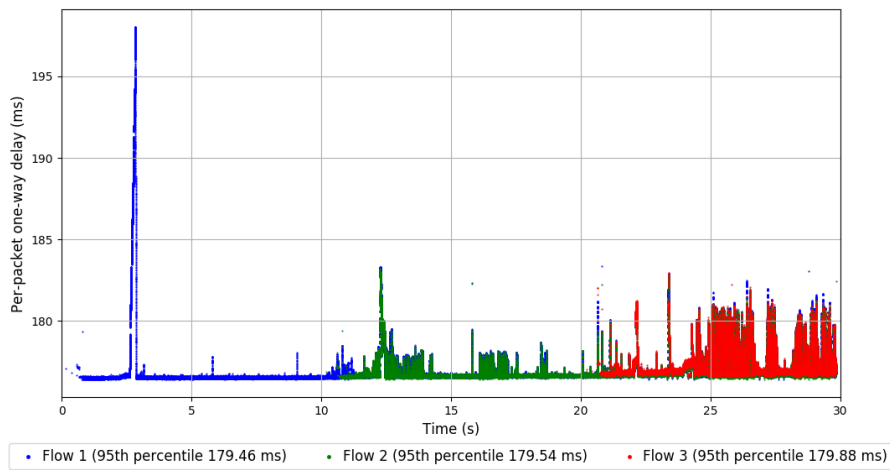
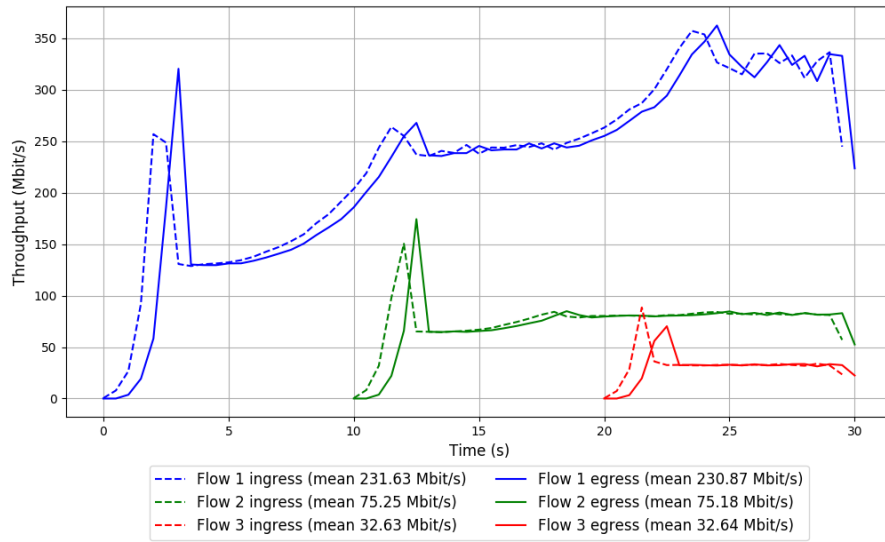
Figure is missing

Run 1: Statistics of PCC-Allegro

Start at: 2019-12-11 15:02:20
End at: 2019-12-11 15:02:50
Local clock offset: 6.701 ms
Remote clock offset: -76.151 ms

```
# Below is generated by plot.py at 2019-12-11 18:14:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 291.20 Mbit/s
95th percentile per-packet one-way delay: 179.507 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 230.87 Mbit/s
95th percentile per-packet one-way delay: 179.462 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 75.18 Mbit/s
95th percentile per-packet one-way delay: 179.539 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 32.64 Mbit/s
95th percentile per-packet one-way delay: 179.876 ms
Loss rate: 2.01%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-12-11 15:37:24

End at: 2019-12-11 15:37:54

Local clock offset: 7.501 ms

Remote clock offset: -49.22 ms

Below is generated by plot.py at 2019-12-11 18:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 327.88 Mbit/s

95th percentile per-packet one-way delay: 154.095 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 283.83 Mbit/s

95th percentile per-packet one-way delay: 154.188 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 65.42 Mbit/s

95th percentile per-packet one-way delay: 153.896 ms

Loss rate: 1.10%

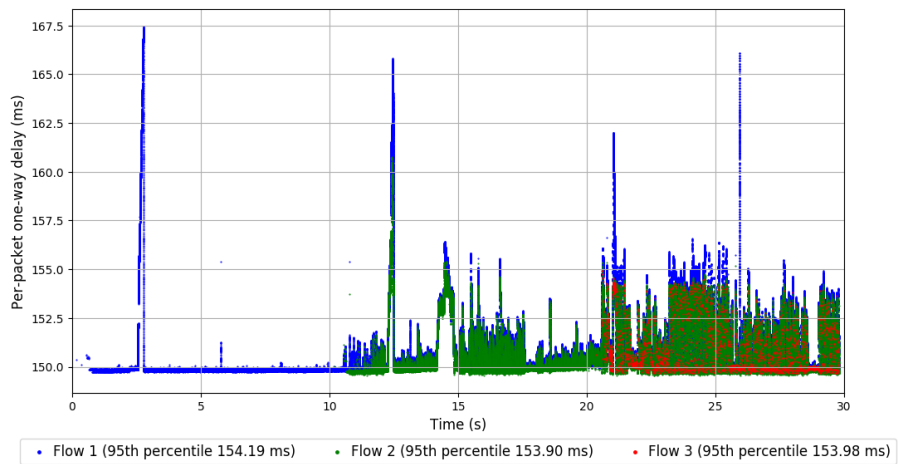
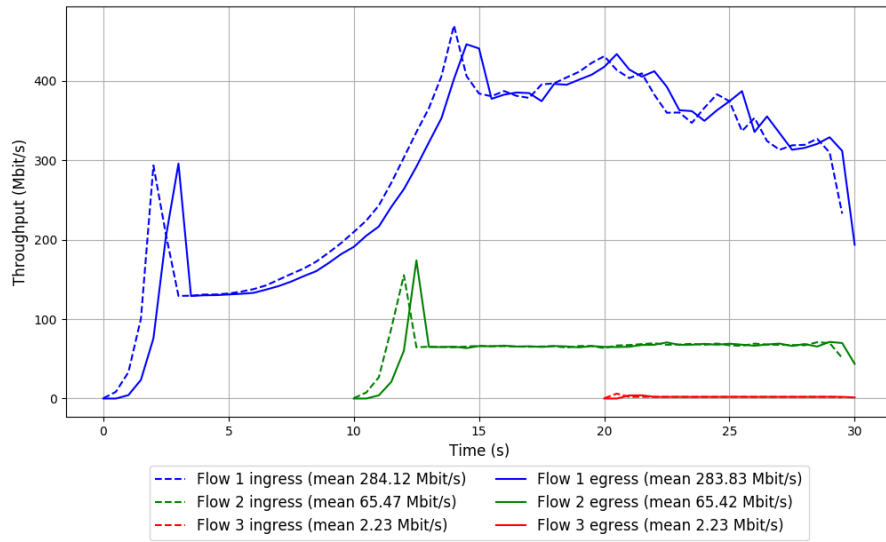
-- Flow 3:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 153.981 ms

Loss rate: 1.99%

Run 2: Report of PCC-Allegro — Data Link

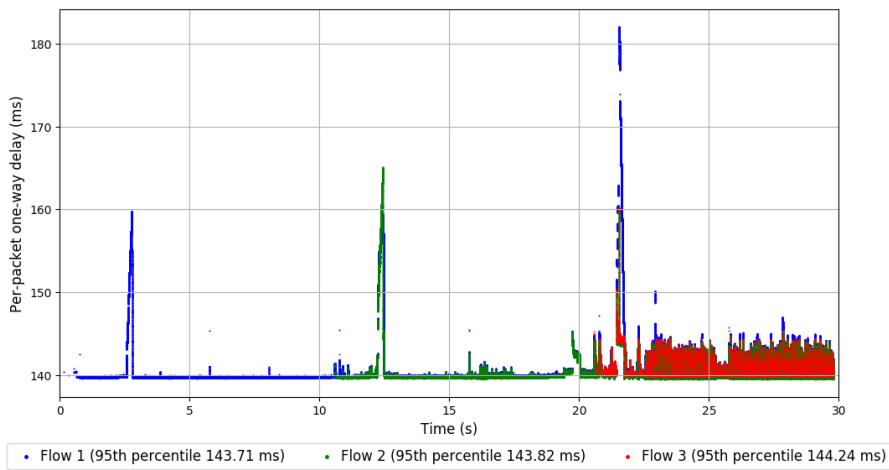
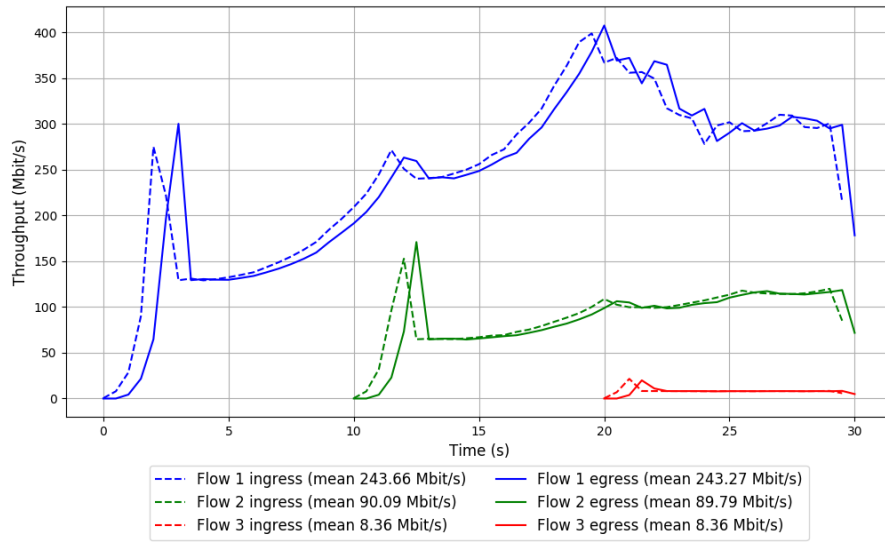


Run 3: Statistics of PCC-Allegro

Start at: 2019-12-11 16:12:31
End at: 2019-12-11 16:13:01
Local clock offset: -3.872 ms
Remote clock offset: -47.799 ms

```
# Below is generated by plot.py at 2019-12-11 18:15:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 305.45 Mbit/s
95th percentile per-packet one-way delay: 143.766 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 243.27 Mbit/s
95th percentile per-packet one-way delay: 143.708 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 89.79 Mbit/s
95th percentile per-packet one-way delay: 143.825 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 8.36 Mbit/s
95th percentile per-packet one-way delay: 144.239 ms
Loss rate: 2.00%
```

Run 3: Report of PCC-Allegro — Data Link

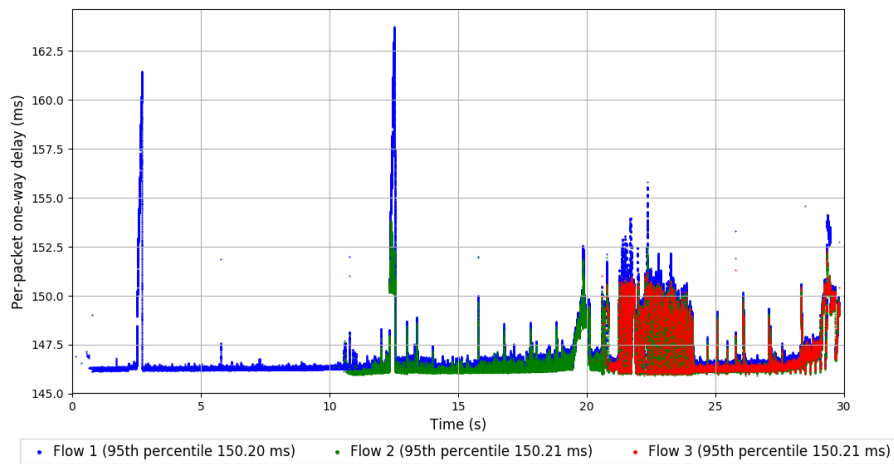
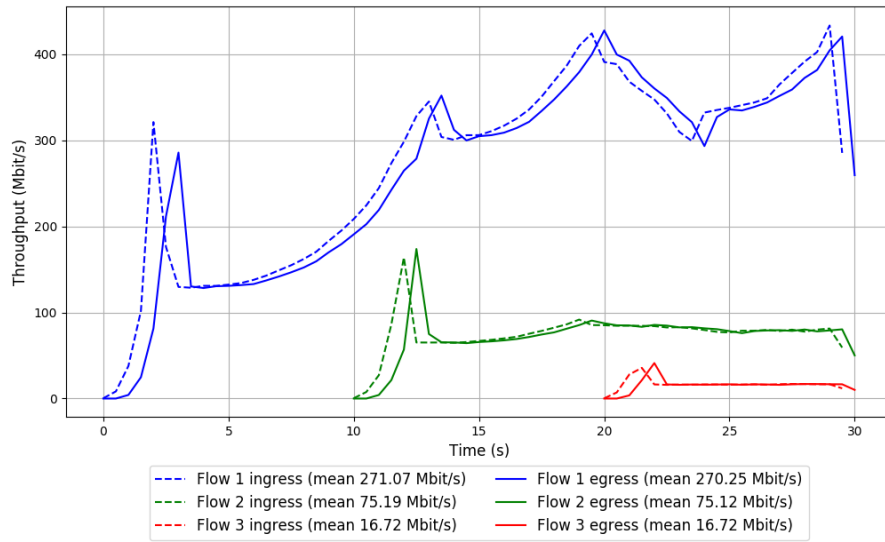


Run 4: Statistics of PCC-Allegro

Start at: 2019-12-11 16:47:16
End at: 2019-12-11 16:47:46
Local clock offset: 5.949 ms
Remote clock offset: -44.853 ms

```
# Below is generated by plot.py at 2019-12-11 18:16:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 325.41 Mbit/s
95th percentile per-packet one-way delay: 150.203 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 270.25 Mbit/s
95th percentile per-packet one-way delay: 150.200 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 75.12 Mbit/s
95th percentile per-packet one-way delay: 150.212 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 16.72 Mbit/s
95th percentile per-packet one-way delay: 150.206 ms
Loss rate: 2.04%
```

Run 4: Report of PCC-Allegro — Data Link

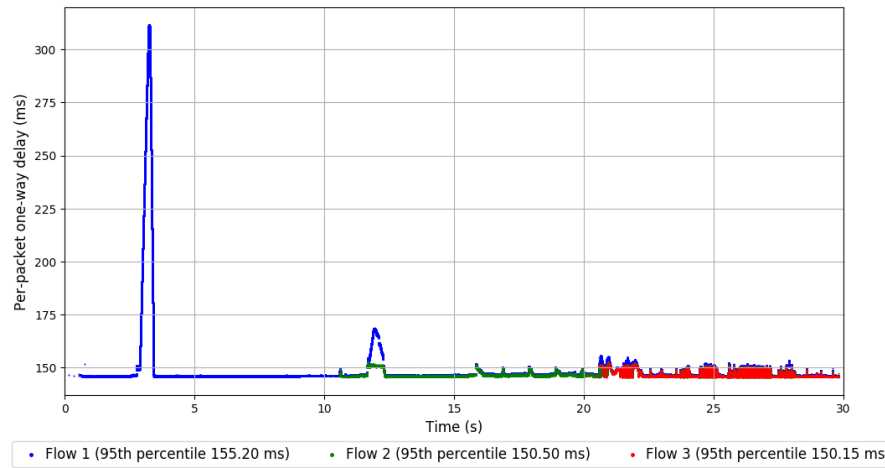
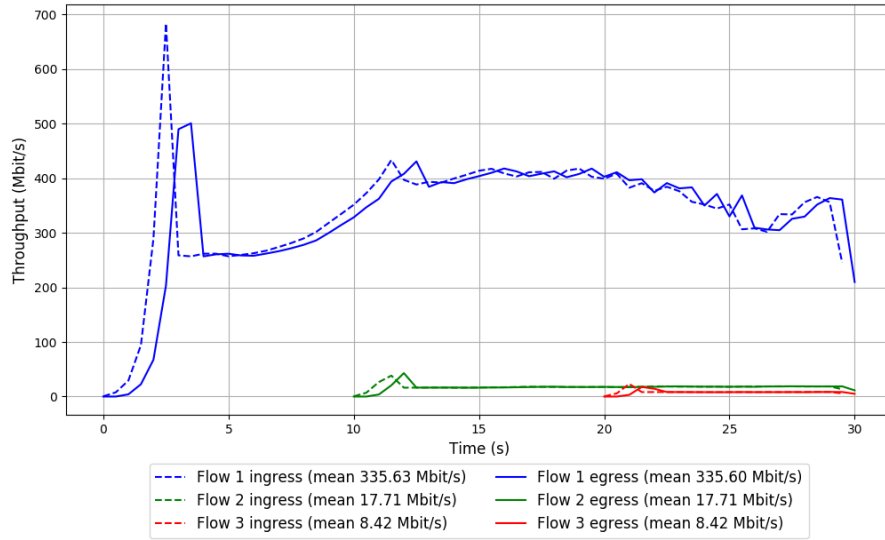


Run 5: Statistics of PCC-Allegro

Start at: 2019-12-11 17:22:17
End at: 2019-12-11 17:22:47
Local clock offset: 6.238 ms
Remote clock offset: -43.782 ms

```
# Below is generated by plot.py at 2019-12-11 18:16:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 350.05 Mbit/s
95th percentile per-packet one-way delay: 154.273 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 335.60 Mbit/s
95th percentile per-packet one-way delay: 155.198 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 17.71 Mbit/s
95th percentile per-packet one-way delay: 150.503 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 8.42 Mbit/s
95th percentile per-packet one-way delay: 150.153 ms
Loss rate: 1.96%
```

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-12-11 14:54:48
End at: 2019-12-11 14:55:18
Local clock offset: 6.174 ms
Remote clock offset: -59.741 ms

Below is generated by plot.py at 2019-12-11 18:16:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 142.07 Mbit/s
95th percentile per-packet one-way delay: 163.721 ms
Loss rate: 0.88%

-- Flow 1:

Average throughput: 99.26 Mbit/s
95th percentile per-packet one-way delay: 163.630 ms
Loss rate: 0.70%

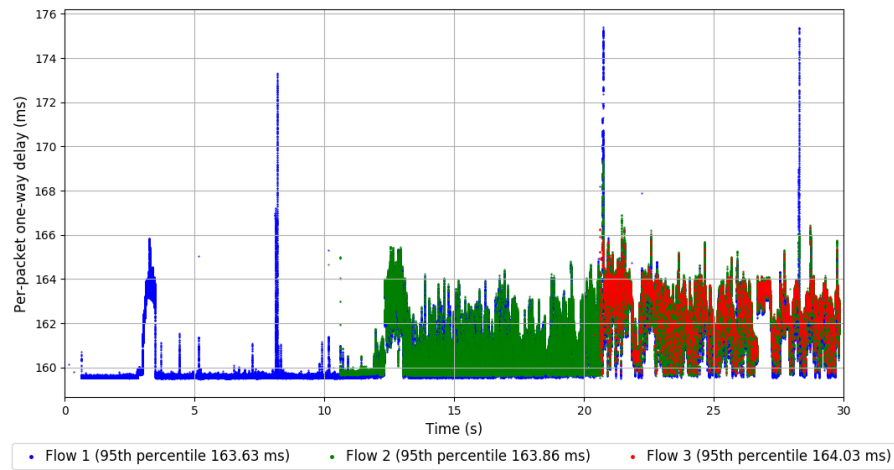
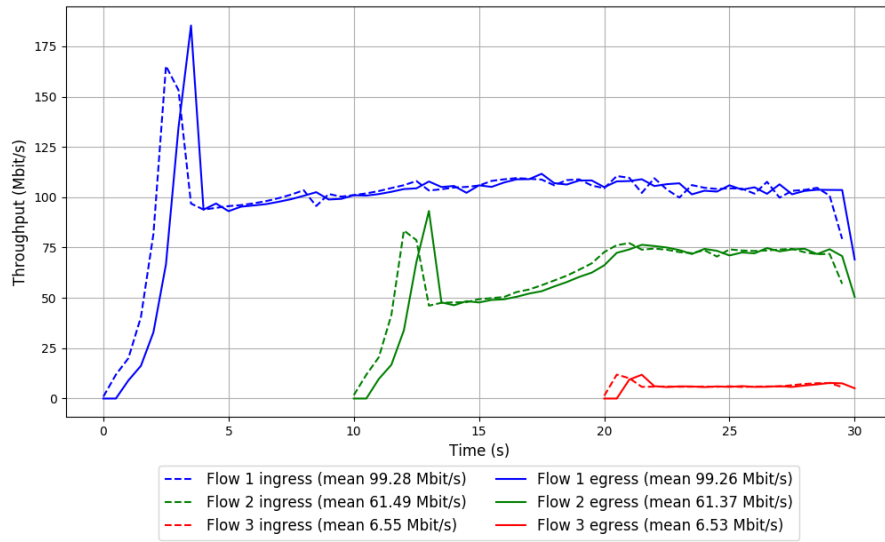
-- Flow 2:

Average throughput: 61.37 Mbit/s
95th percentile per-packet one-way delay: 163.864 ms
Loss rate: 1.23%

-- Flow 3:

Average throughput: 6.53 Mbit/s
95th percentile per-packet one-way delay: 164.032 ms
Loss rate: 2.41%

Run 1: Report of PCC-Expr — Data Link

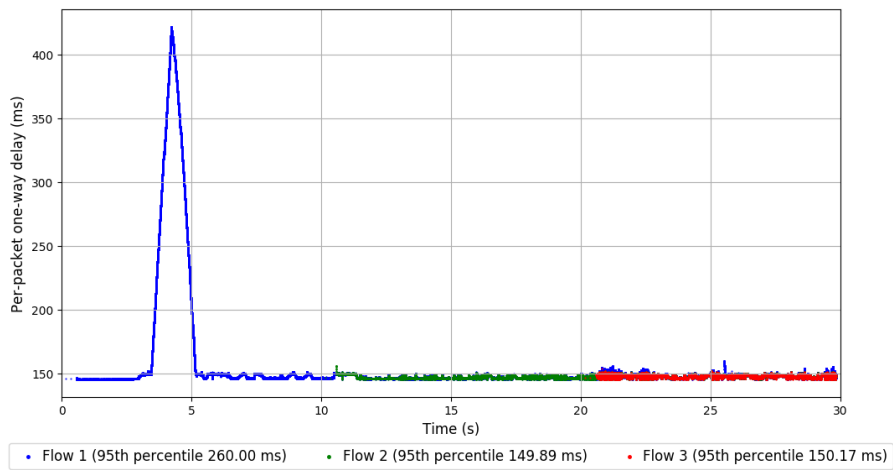
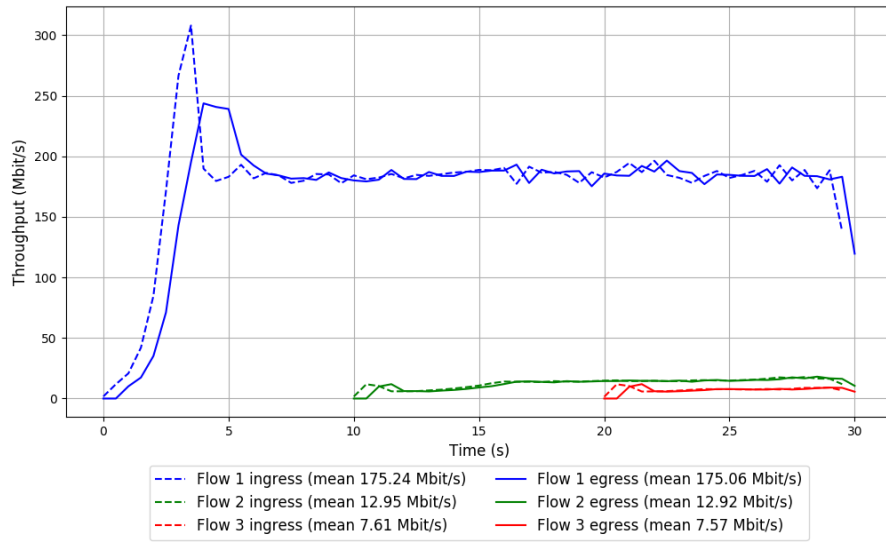


Run 2: Statistics of PCC-Expr

Start at: 2019-12-11 15:29:43
End at: 2019-12-11 15:30:13
Local clock offset: 2.824 ms
Remote clock offset: -49.844 ms

```
# Below is generated by plot.py at 2019-12-11 18:18:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 186.10 Mbit/s
95th percentile per-packet one-way delay: 248.223 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 175.06 Mbit/s
95th percentile per-packet one-way delay: 259.999 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 12.92 Mbit/s
95th percentile per-packet one-way delay: 149.893 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 7.57 Mbit/s
95th percentile per-packet one-way delay: 150.168 ms
Loss rate: 2.48%
```

Run 2: Report of PCC-Expr — Data Link

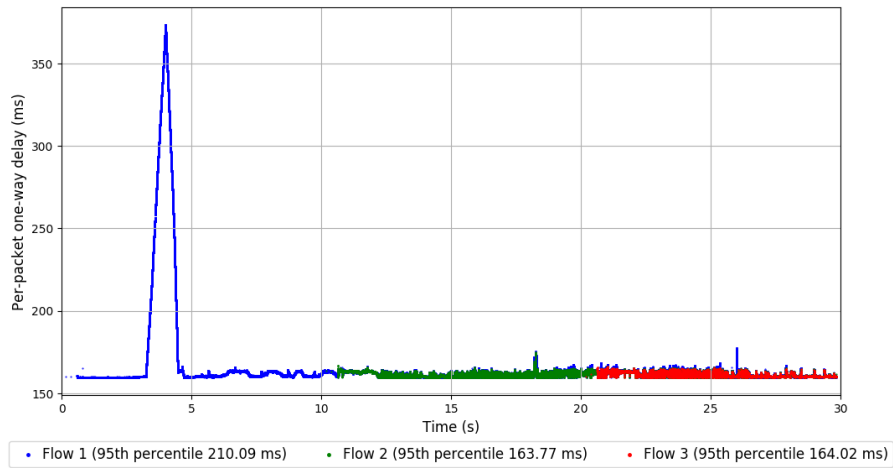
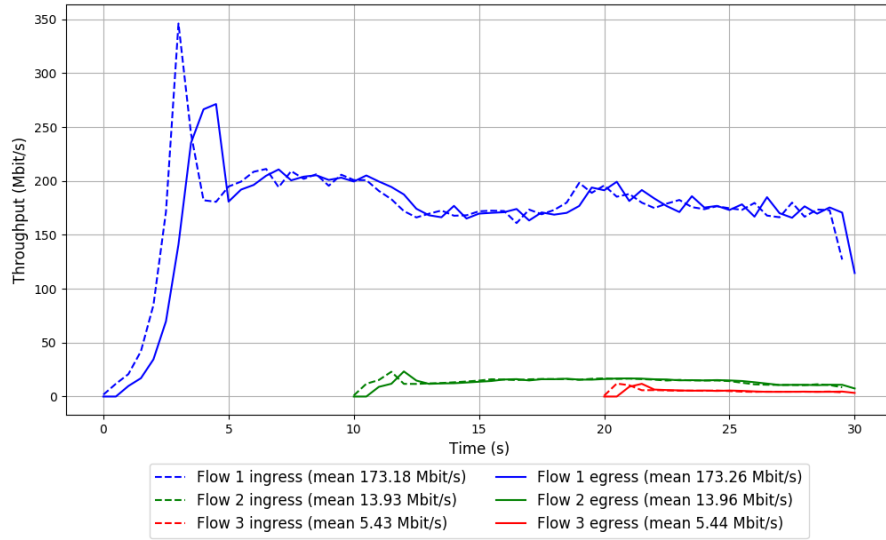


Run 3: Statistics of PCC-Expr

Start at: 2019-12-11 16:04:35
End at: 2019-12-11 16:05:05
Local clock offset: 4.261 ms
Remote clock offset: -59.115 ms

```
# Below is generated by plot.py at 2019-12-11 18:18:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 184.27 Mbit/s
95th percentile per-packet one-way delay: 199.957 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 173.26 Mbit/s
95th percentile per-packet one-way delay: 210.095 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 13.96 Mbit/s
95th percentile per-packet one-way delay: 163.773 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 5.44 Mbit/s
95th percentile per-packet one-way delay: 164.023 ms
Loss rate: 1.86%
```

Run 3: Report of PCC-Expr — Data Link

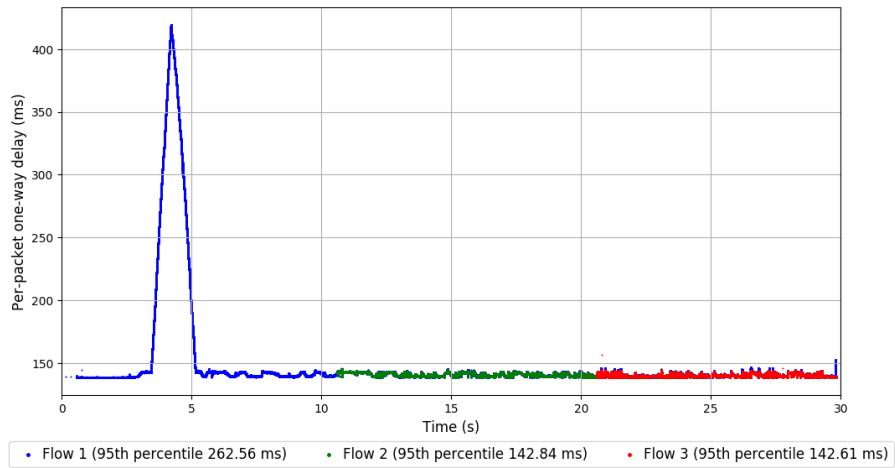
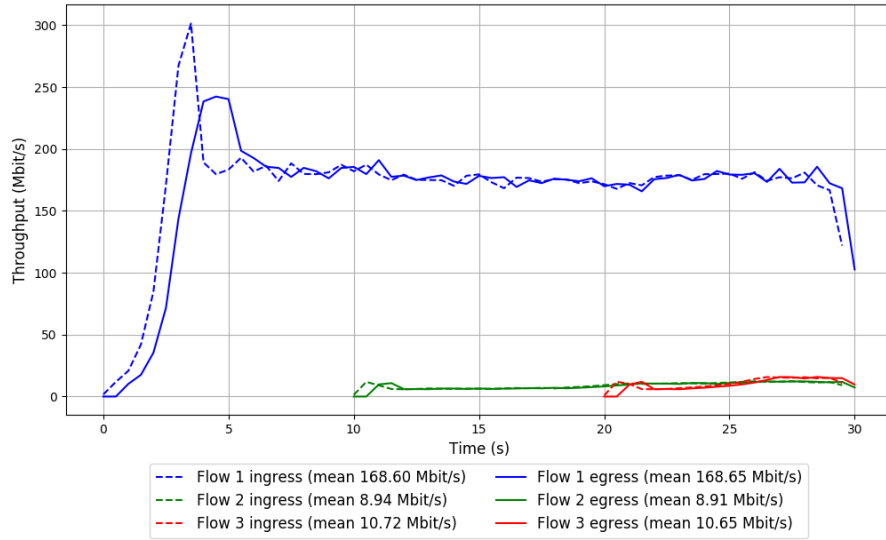


Run 4: Statistics of PCC-Expr

Start at: 2019-12-11 16:39:49
End at: 2019-12-11 16:40:19
Local clock offset: 6.293 ms
Remote clock offset: -37.363 ms

```
# Below is generated by plot.py at 2019-12-11 18:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 178.02 Mbit/s
95th percentile per-packet one-way delay: 252.390 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 168.65 Mbit/s
95th percentile per-packet one-way delay: 262.563 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 8.91 Mbit/s
95th percentile per-packet one-way delay: 142.836 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 10.65 Mbit/s
95th percentile per-packet one-way delay: 142.614 ms
Loss rate: 2.73%
```

Run 4: Report of PCC-Expr — Data Link

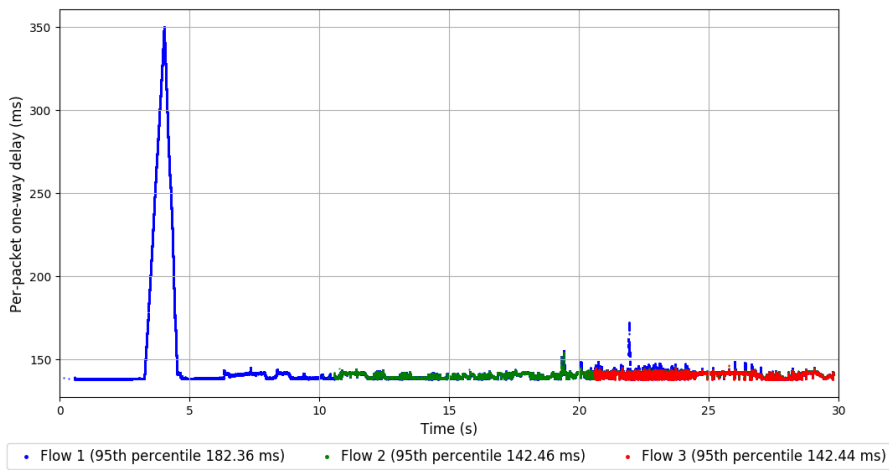
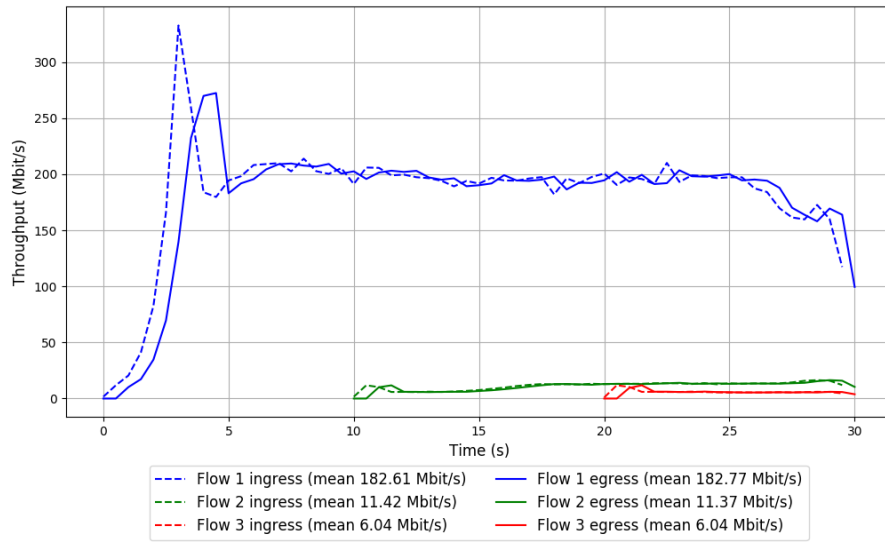


Run 5: Statistics of PCC-Expr

Start at: 2019-12-11 17:14:31
End at: 2019-12-11 17:15:01
Local clock offset: 5.477 ms
Remote clock offset: -36.815 ms

```
# Below is generated by plot.py at 2019-12-11 18:19:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 192.28 Mbit/s
95th percentile per-packet one-way delay: 173.665 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 182.77 Mbit/s
95th percentile per-packet one-way delay: 182.360 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 11.37 Mbit/s
95th percentile per-packet one-way delay: 142.464 ms
Loss rate: 1.38%
-- Flow 3:
Average throughput: 6.04 Mbit/s
95th percentile per-packet one-way delay: 142.441 ms
Loss rate: 2.11%
```

Run 5: Report of PCC-Expr — Data Link

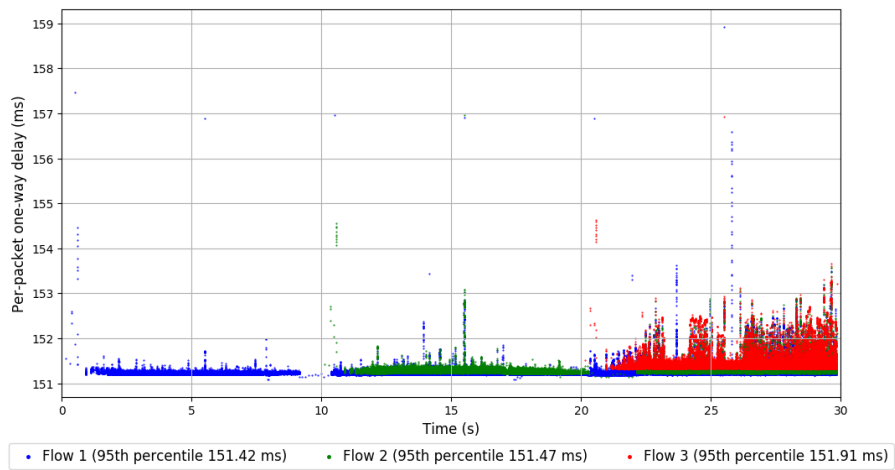
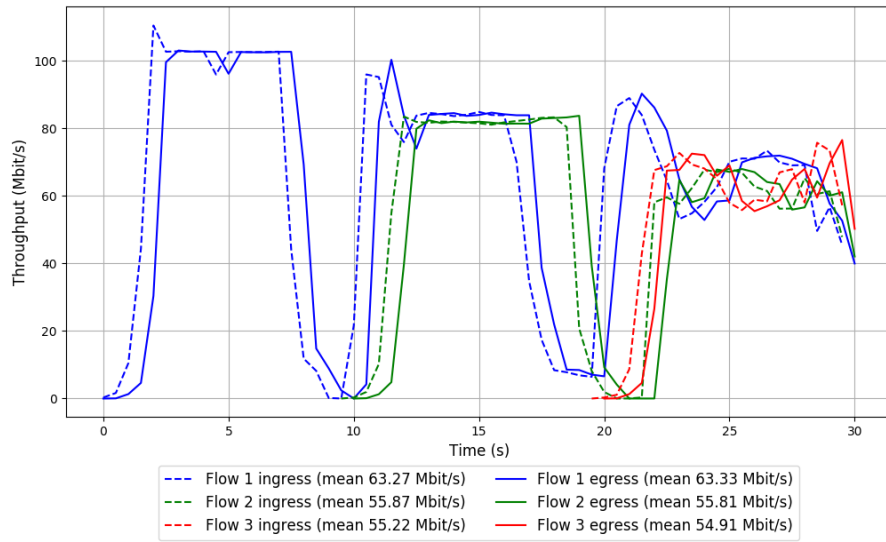


Run 1: Statistics of QUIC Cubic

Start at: 2019-12-11 15:13:48
End at: 2019-12-11 15:14:18
Local clock offset: 4.083 ms
Remote clock offset: -53.748 ms

```
# Below is generated by plot.py at 2019-12-11 18:19:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 118.30 Mbit/s
95th percentile per-packet one-way delay: 151.560 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 63.33 Mbit/s
95th percentile per-packet one-way delay: 151.417 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 55.81 Mbit/s
95th percentile per-packet one-way delay: 151.472 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 54.91 Mbit/s
95th percentile per-packet one-way delay: 151.908 ms
Loss rate: 2.65%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-12-11 15:48:51
End at: 2019-12-11 15:49:21
Local clock offset: 1.103 ms
Remote clock offset: -60.519 ms

Below is generated by plot.py at 2019-12-11 18:19:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.76 Mbit/s
95th percentile per-packet one-way delay: 156.974 ms
Loss rate: 0.66%

-- Flow 1:

Average throughput: 55.01 Mbit/s
95th percentile per-packet one-way delay: 156.875 ms
Loss rate: 0.97%

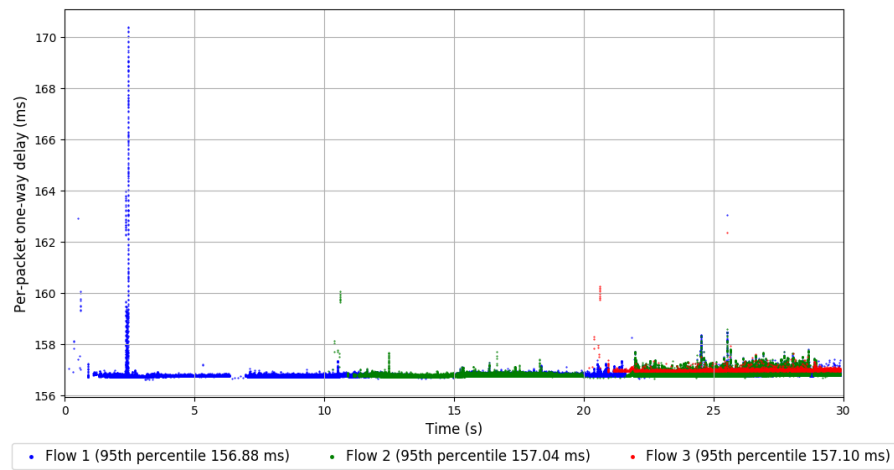
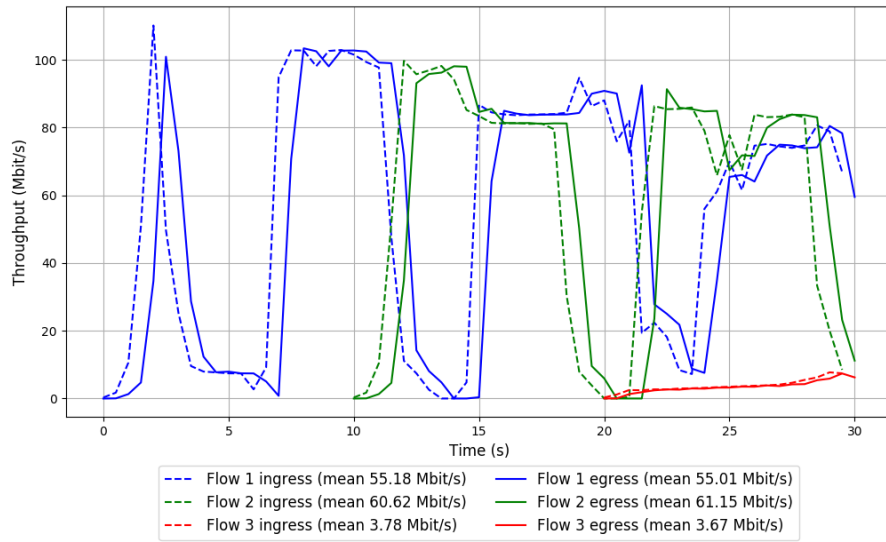
-- Flow 2:

Average throughput: 61.15 Mbit/s
95th percentile per-packet one-way delay: 157.041 ms
Loss rate: 0.12%

-- Flow 3:

Average throughput: 3.67 Mbit/s
95th percentile per-packet one-way delay: 157.104 ms
Loss rate: 4.86%

Run 2: Report of QUIC Cubic — Data Link

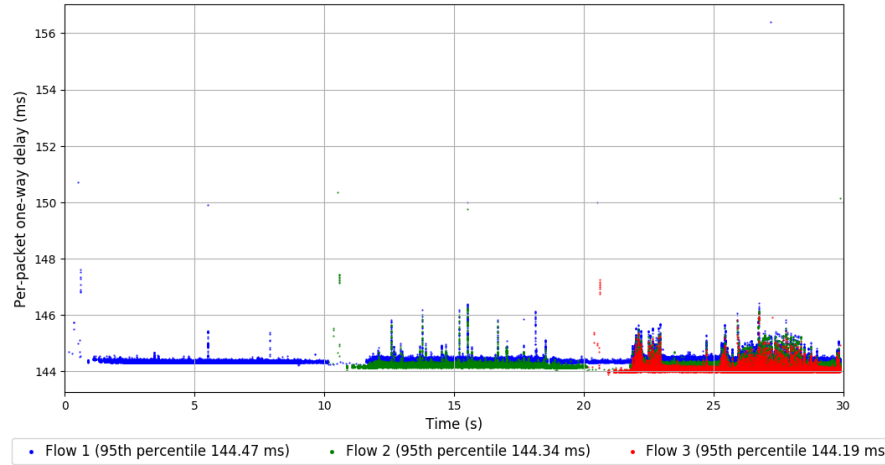
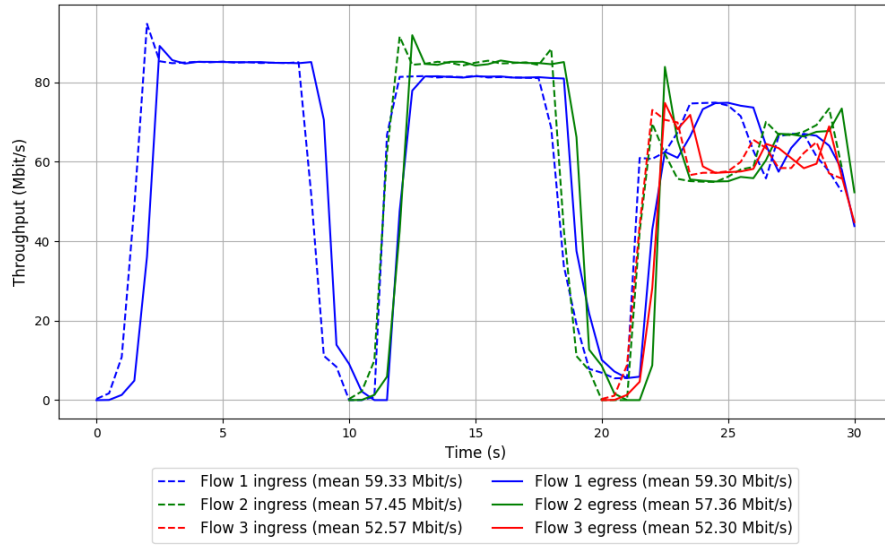


Run 3: Statistics of QUIC Cubic

Start at: 2019-12-11 16:24:05
End at: 2019-12-11 16:24:35
Local clock offset: 1.164 ms
Remote clock offset: -47.725 ms

```
# Below is generated by plot.py at 2019-12-11 18:19:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 114.39 Mbit/s
95th percentile per-packet one-way delay: 144.447 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 59.30 Mbit/s
95th percentile per-packet one-way delay: 144.465 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 57.36 Mbit/s
95th percentile per-packet one-way delay: 144.336 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 52.30 Mbit/s
95th percentile per-packet one-way delay: 144.191 ms
Loss rate: 2.63%
```

Run 3: Report of QUIC Cubic — Data Link

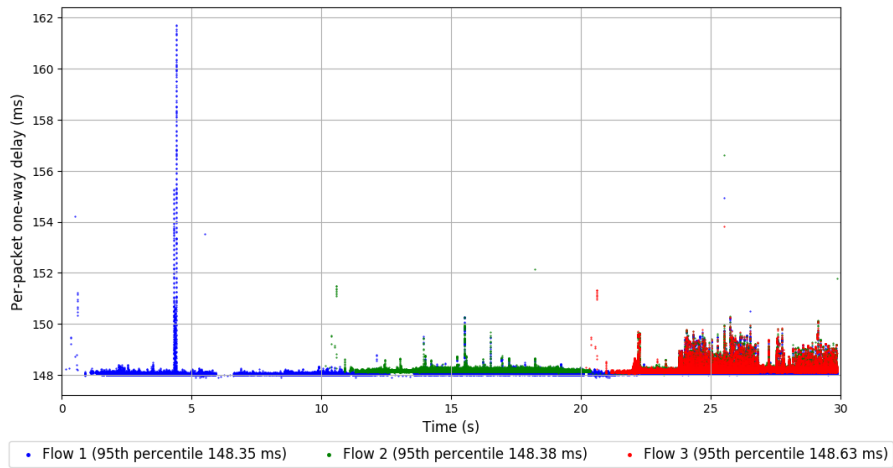
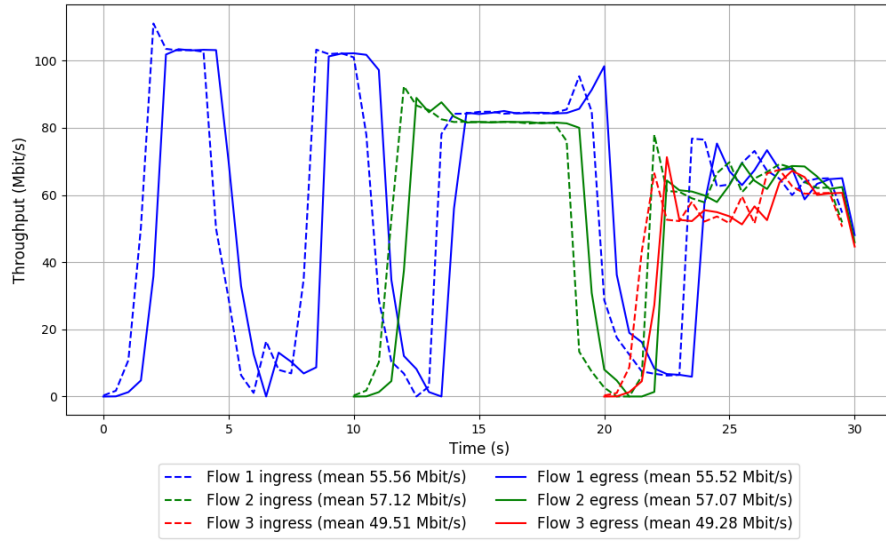


Run 4: Statistics of QUIC Cubic

Start at: 2019-12-11 16:58:46
End at: 2019-12-11 16:59:16
Local clock offset: 5.442 ms
Remote clock offset: -47.024 ms

```
# Below is generated by plot.py at 2019-12-11 18:19:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 109.43 Mbit/s
95th percentile per-packet one-way delay: 148.416 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 55.52 Mbit/s
95th percentile per-packet one-way delay: 148.347 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 57.07 Mbit/s
95th percentile per-packet one-way delay: 148.380 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 49.28 Mbit/s
95th percentile per-packet one-way delay: 148.630 ms
Loss rate: 2.45%
```

Run 4: Report of QUIC Cubic — Data Link

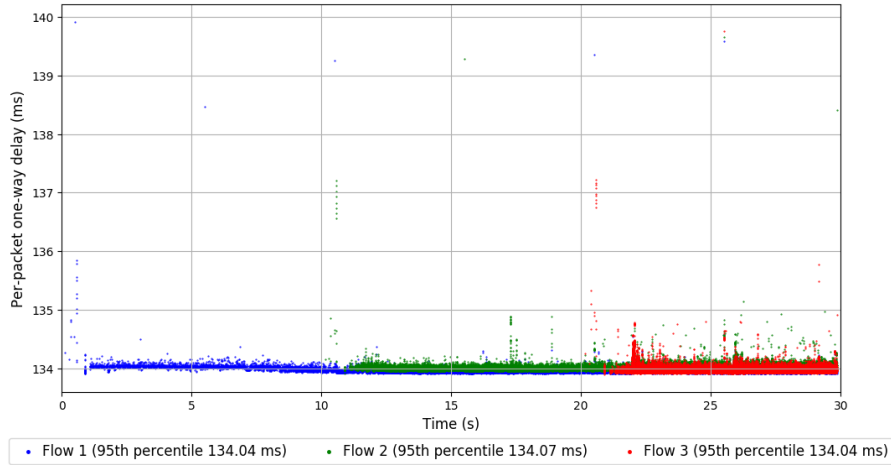
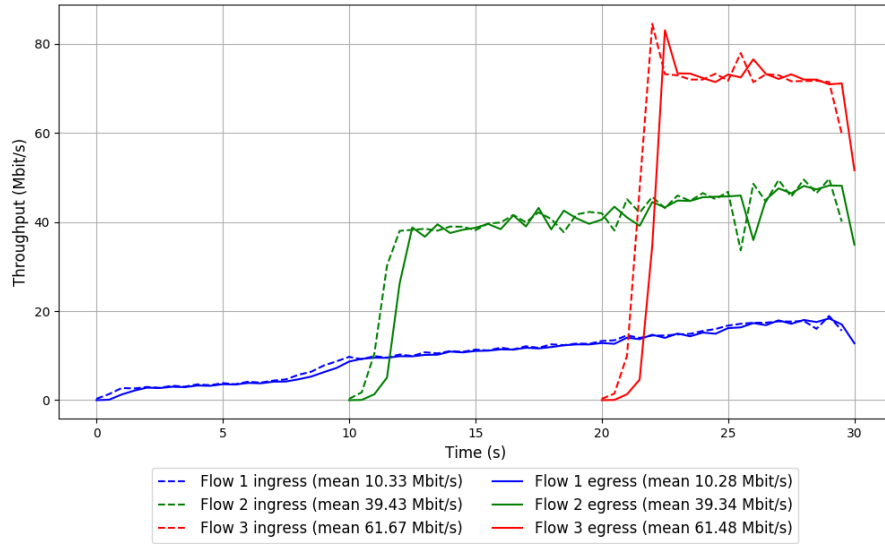


Run 5: Statistics of QUIC Cubic

Start at: 2019-12-11 17:33:48
End at: 2019-12-11 17:34:18
Local clock offset: 1.43 ms
Remote clock offset: -36.947 ms

```
# Below is generated by plot.py at 2019-12-11 18:19:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 56.43 Mbit/s
95th percentile per-packet one-way delay: 134.061 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 10.28 Mbit/s
95th percentile per-packet one-way delay: 134.039 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 39.34 Mbit/s
95th percentile per-packet one-way delay: 134.074 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 61.48 Mbit/s
95th percentile per-packet one-way delay: 134.041 ms
Loss rate: 2.31%
```

Run 5: Report of QUIC Cubic — Data Link

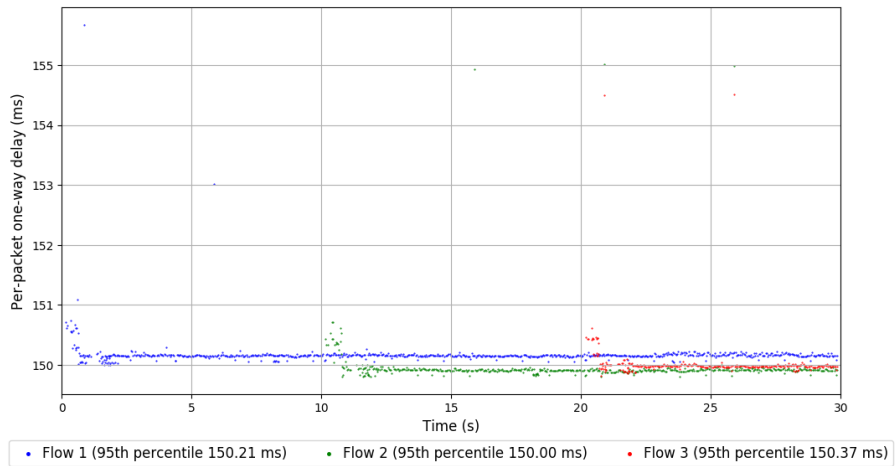
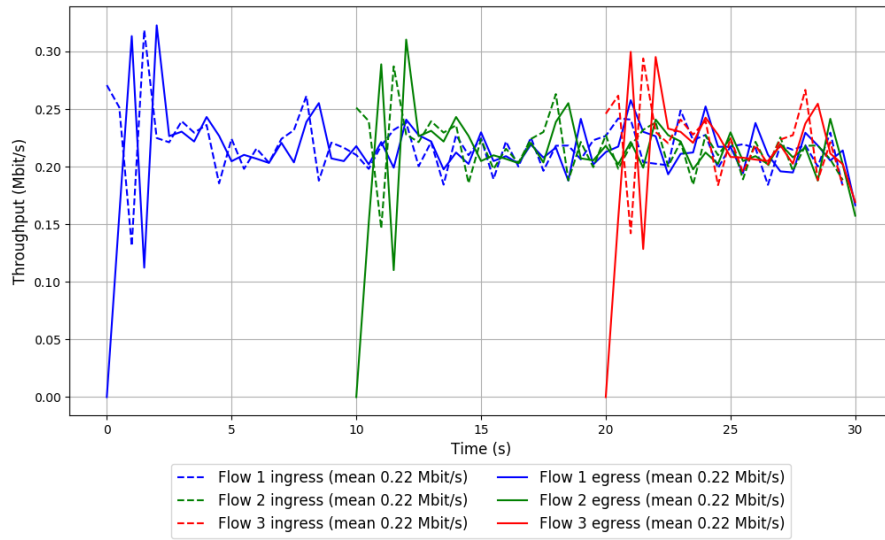


Run 1: Statistics of SCReAM

Start at: 2019-12-11 14:57:55
End at: 2019-12-11 14:58:25
Local clock offset: -2.547 ms
Remote clock offset: -58.719 ms

```
# Below is generated by plot.py at 2019-12-11 18:19:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 150.212 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 150.214 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 149.999 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 150.371 ms
Loss rate: 1.85%
```

Run 1: Report of SCReAM — Data Link

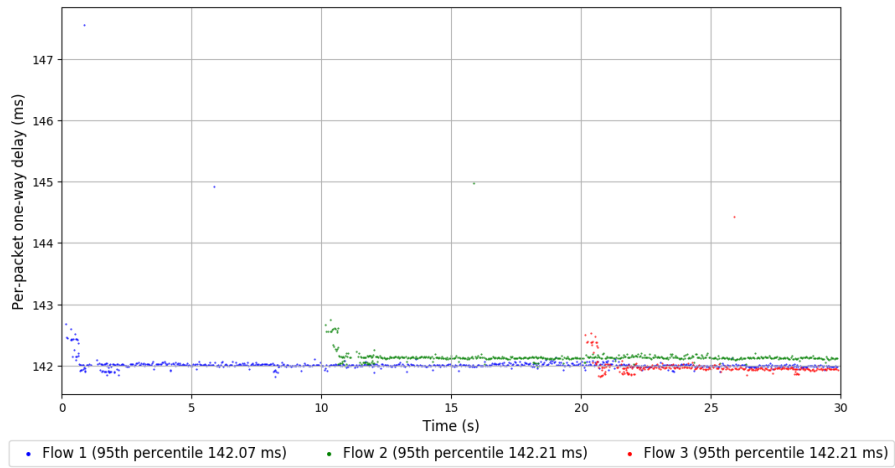
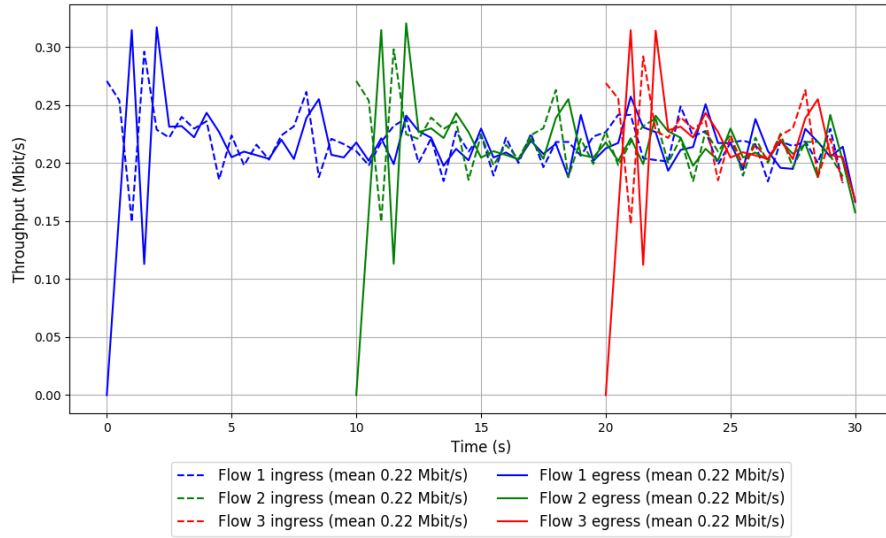


Run 2: Statistics of SCReAM

Start at: 2019-12-11 15:32:56
End at: 2019-12-11 15:33:26
Local clock offset: 7.378 ms
Remote clock offset: -41.526 ms

```
# Below is generated by plot.py at 2019-12-11 18:19:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 142.175 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 142.071 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 142.207 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 142.212 ms
Loss rate: 1.82%
```

Run 2: Report of SCReAM — Data Link

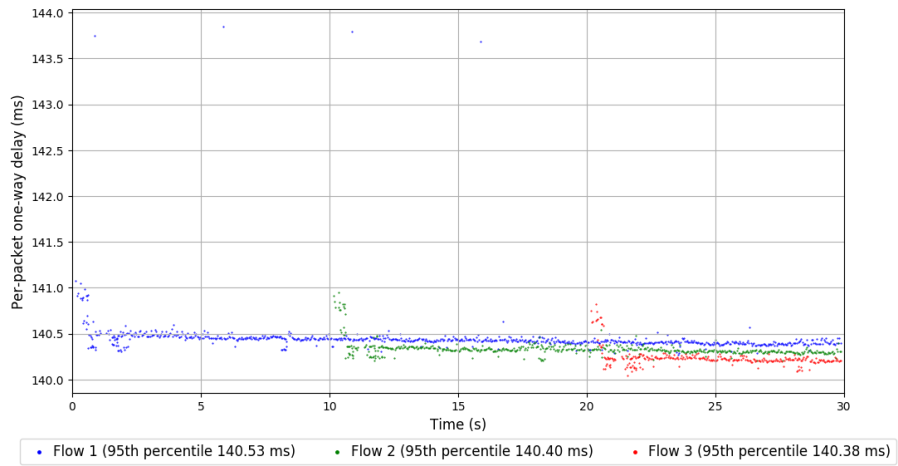
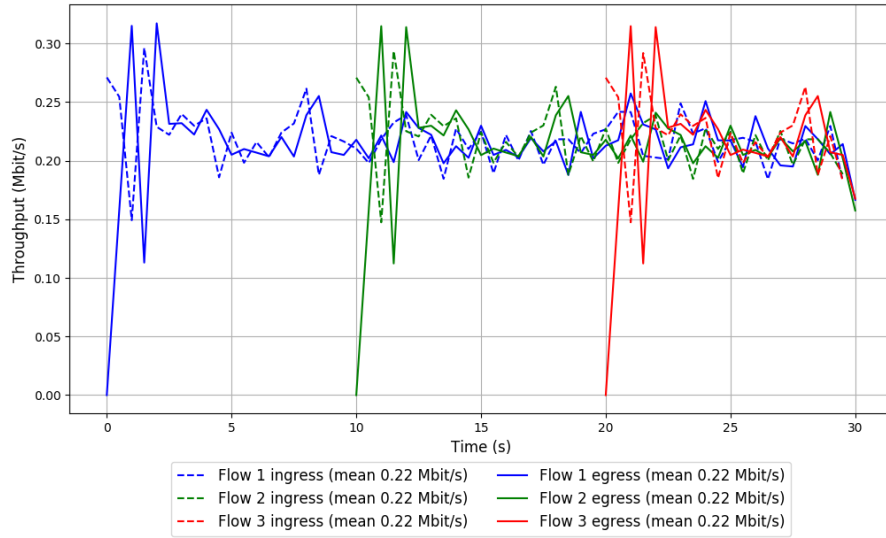


Run 3: Statistics of SCReAM

Start at: 2019-12-11 16:07:53
End at: 2019-12-11 16:08:23
Local clock offset: 3.818 ms
Remote clock offset: -39.931 ms

```
# Below is generated by plot.py at 2019-12-11 18:19:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 140.519 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 140.527 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 140.404 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 140.383 ms
Loss rate: 1.82%
```

Run 3: Report of SCReAM — Data Link

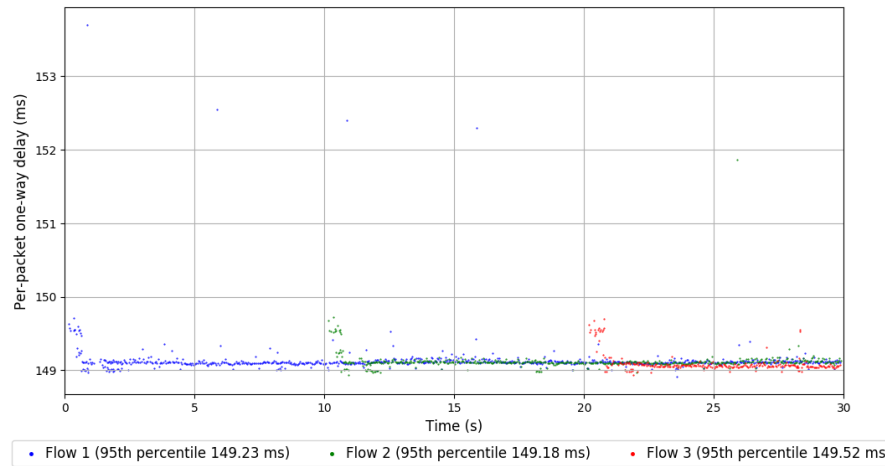
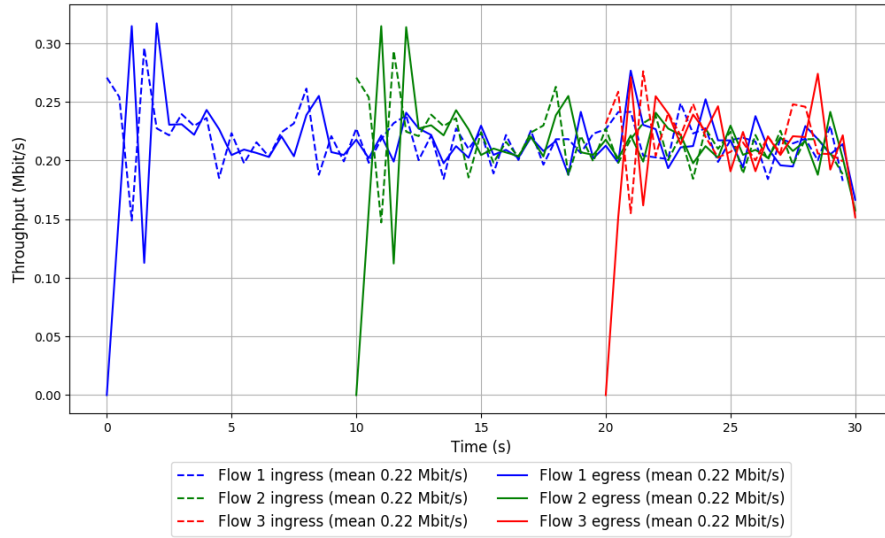


Run 4: Statistics of SCReAM

Start at: 2019-12-11 16:42:59
End at: 2019-12-11 16:43:29
Local clock offset: 6.063 ms
Remote clock offset: -47.681 ms

```
# Below is generated by plot.py at 2019-12-11 18:19:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 149.237 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 149.226 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 149.178 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 149.522 ms
Loss rate: 2.21%
```

Run 4: Report of SCReAM — Data Link

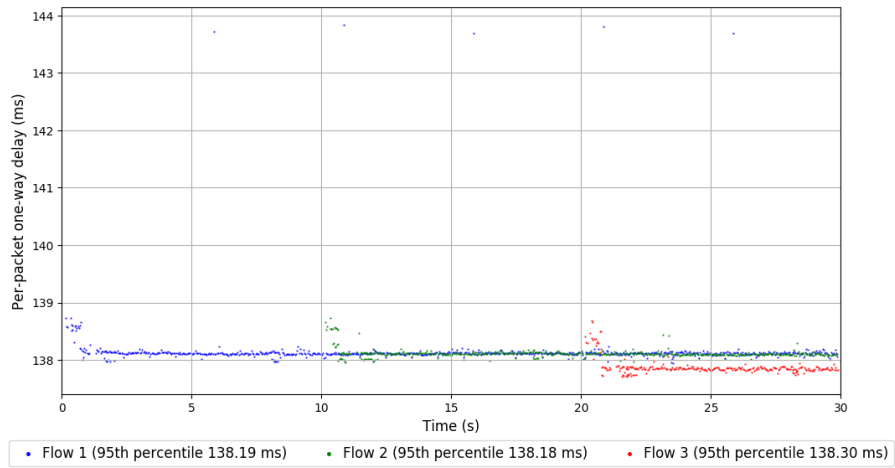
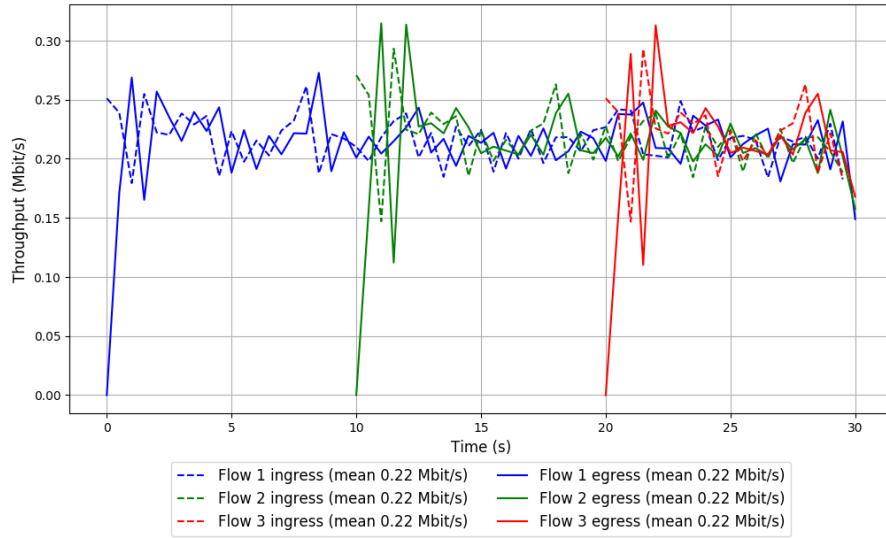


Run 5: Statistics of SCReAM

Start at: 2019-12-11 17:17:42
End at: 2019-12-11 17:18:12
Local clock offset: 5.472 ms
Remote clock offset: -36.829 ms

```
# Below is generated by plot.py at 2019-12-11 18:19:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 138.188 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 138.186 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 138.181 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 138.297 ms
Loss rate: 1.84%
```

Run 5: Report of SCReAM — Data Link

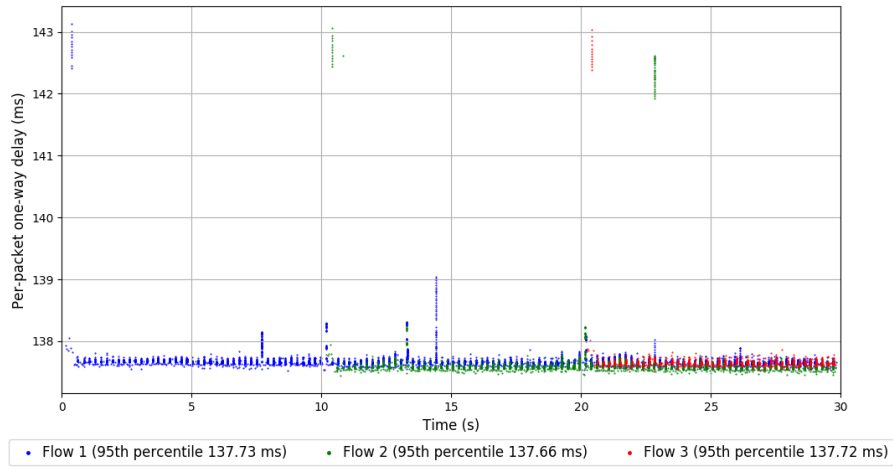
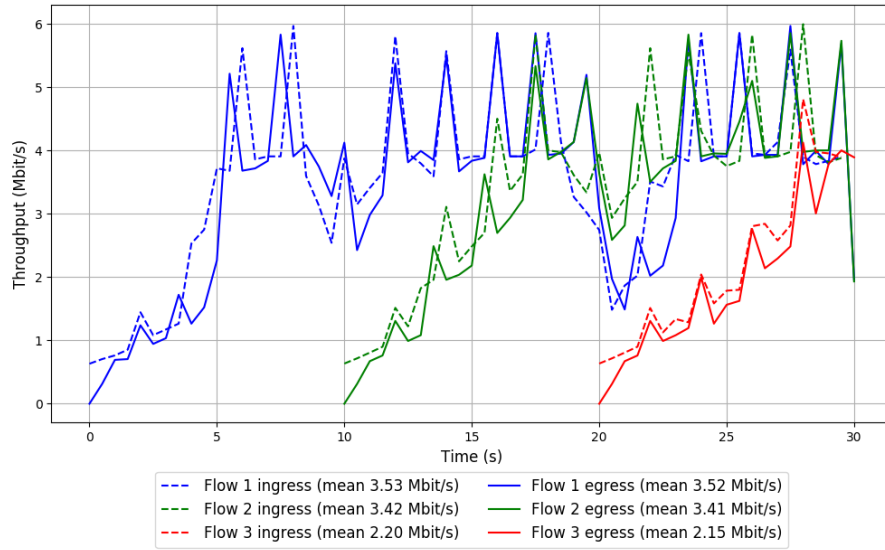


Run 1: Statistics of Sprout

Start at: 2019-12-11 15:22:46
End at: 2019-12-11 15:23:16
Local clock offset: 2.838 ms
Remote clock offset: -41.395 ms

```
# Below is generated by plot.py at 2019-12-11 18:19:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.47 Mbit/s
95th percentile per-packet one-way delay: 137.719 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 3.52 Mbit/s
95th percentile per-packet one-way delay: 137.733 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 3.41 Mbit/s
95th percentile per-packet one-way delay: 137.659 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 137.715 ms
Loss rate: 4.52%
```

Run 1: Report of Sprout — Data Link

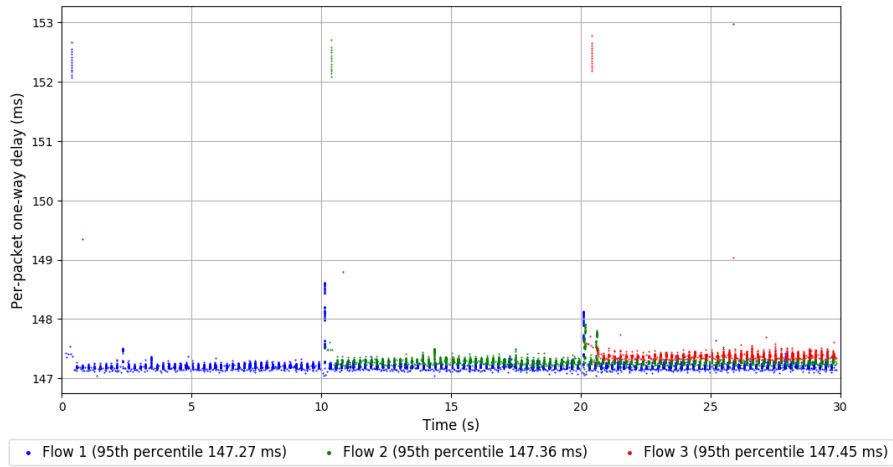
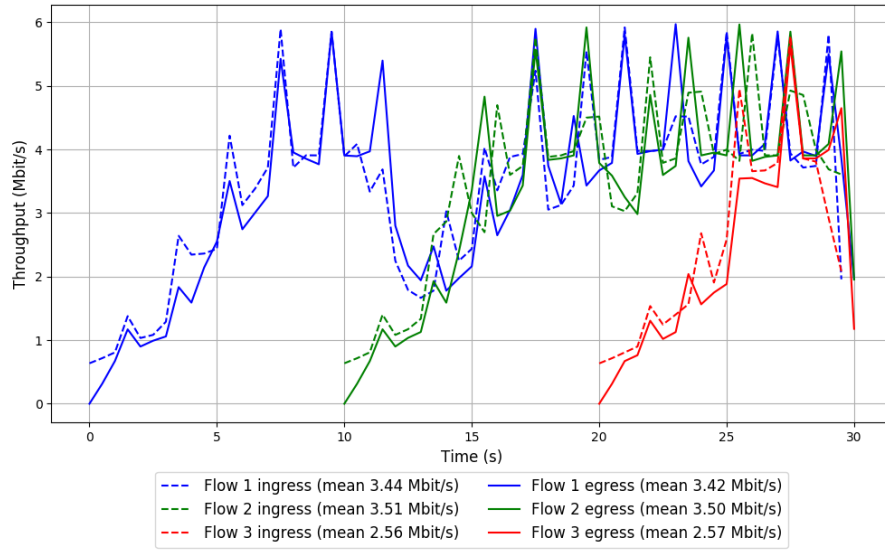


Run 2: Statistics of Sprout

Start at: 2019-12-11 15:57:39
End at: 2019-12-11 15:58:09
Local clock offset: 2.196 ms
Remote clock offset: -49.04 ms

```
# Below is generated by plot.py at 2019-12-11 18:19:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.58 Mbit/s
95th percentile per-packet one-way delay: 147.398 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 3.42 Mbit/s
95th percentile per-packet one-way delay: 147.268 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 3.50 Mbit/s
95th percentile per-packet one-way delay: 147.357 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 2.57 Mbit/s
95th percentile per-packet one-way delay: 147.454 ms
Loss rate: 1.81%
```

Run 2: Report of Sprout — Data Link

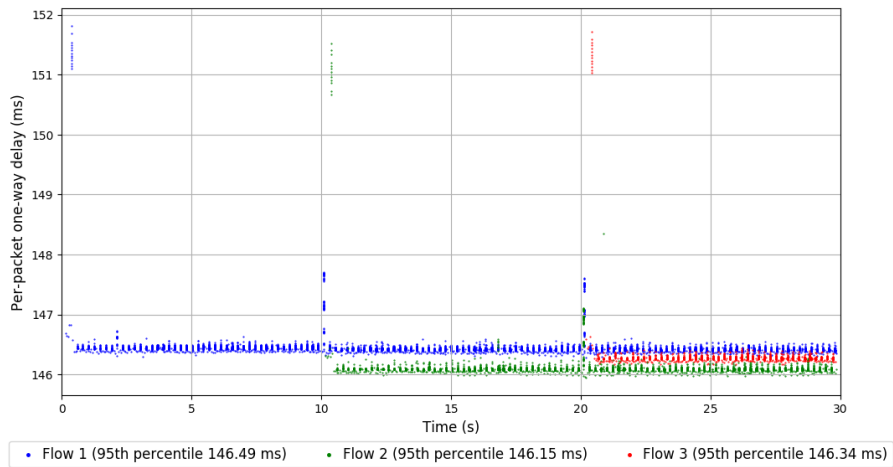
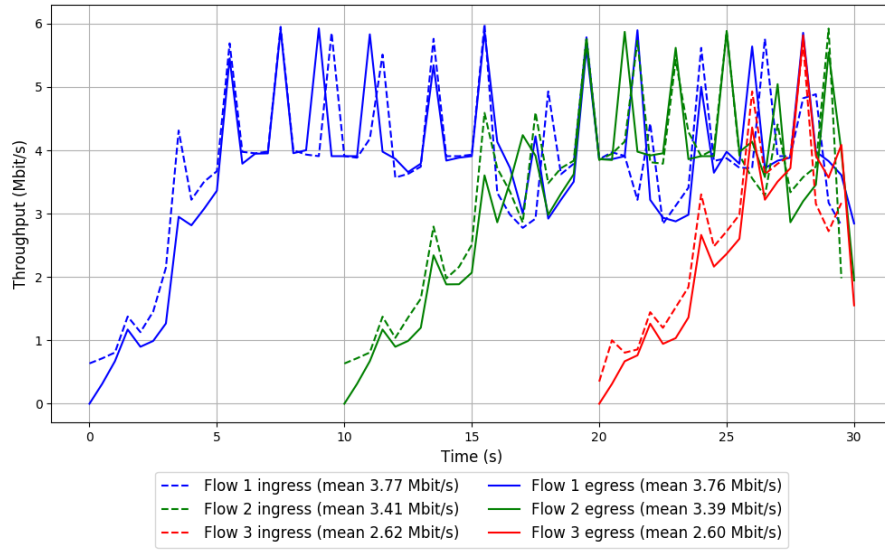


Run 3: Statistics of Sprout

Start at: 2019-12-11 16:32:54
End at: 2019-12-11 16:33:24
Local clock offset: 4.432 ms
Remote clock offset: -46.646 ms

```
# Below is generated by plot.py at 2019-12-11 18:19:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.85 Mbit/s
95th percentile per-packet one-way delay: 146.473 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 3.76 Mbit/s
95th percentile per-packet one-way delay: 146.486 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 3.39 Mbit/s
95th percentile per-packet one-way delay: 146.153 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 2.60 Mbit/s
95th percentile per-packet one-way delay: 146.337 ms
Loss rate: 3.15%
```

Run 3: Report of Sprout — Data Link

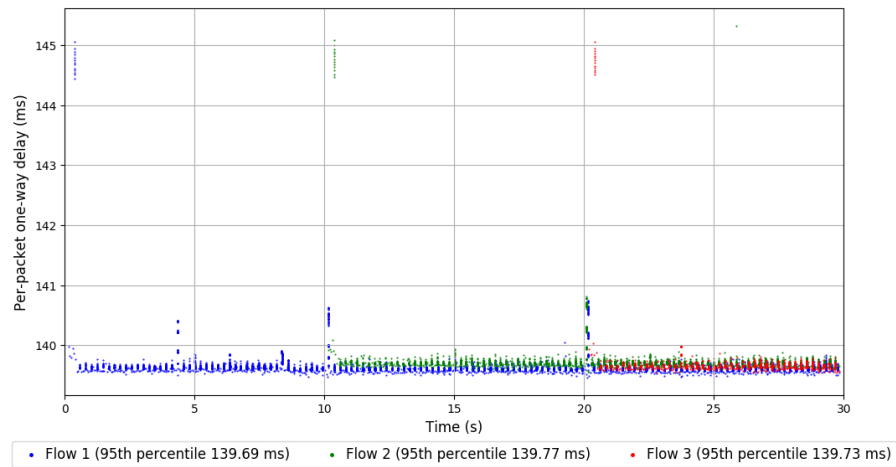
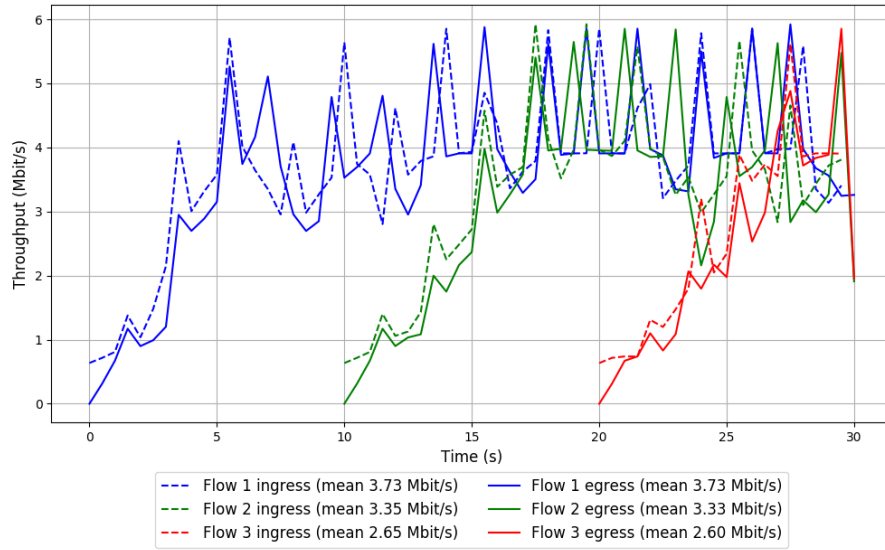


Run 4: Statistics of Sprout

Start at: 2019-12-11 17:07:36
End at: 2019-12-11 17:08:06
Local clock offset: 6.461 ms
Remote clock offset: -37.338 ms

```
# Below is generated by plot.py at 2019-12-11 18:19:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.77 Mbit/s
95th percentile per-packet one-way delay: 139.742 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 3.73 Mbit/s
95th percentile per-packet one-way delay: 139.688 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 3.33 Mbit/s
95th percentile per-packet one-way delay: 139.770 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 2.60 Mbit/s
95th percentile per-packet one-way delay: 139.727 ms
Loss rate: 3.75%
```

Run 4: Report of Sprout — Data Link

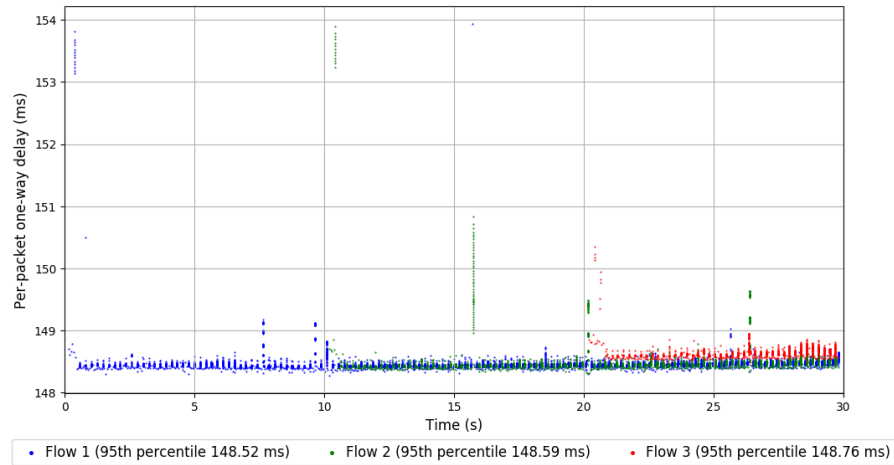
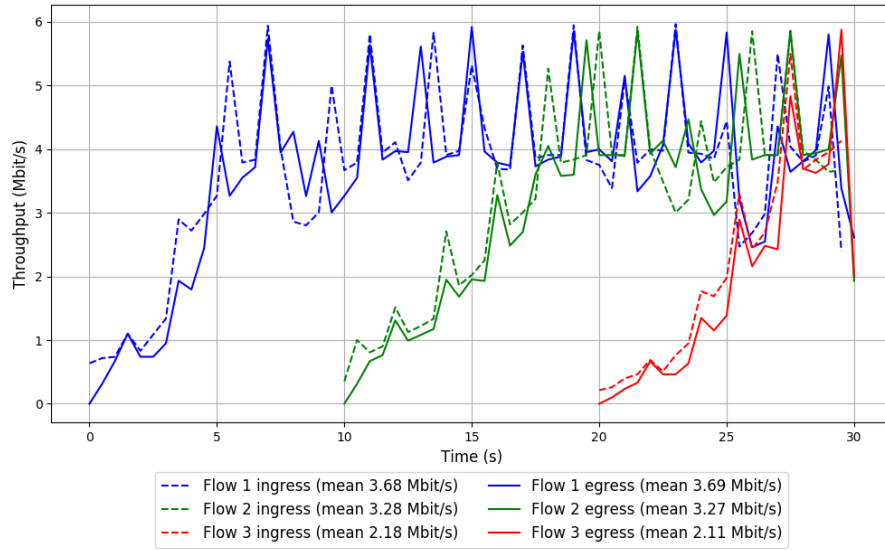


Run 5: Statistics of Sprout

Start at: 2019-12-11 17:42:33
End at: 2019-12-11 17:43:03
Local clock offset: 5.296 ms
Remote clock offset: -47.09 ms

```
# Below is generated by plot.py at 2019-12-11 18:19:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.54 Mbit/s
95th percentile per-packet one-way delay: 148.665 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 3.69 Mbit/s
95th percentile per-packet one-way delay: 148.520 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 3.27 Mbit/s
95th percentile per-packet one-way delay: 148.593 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 148.762 ms
Loss rate: 5.00%
```

Run 5: Report of Sprout — Data Link

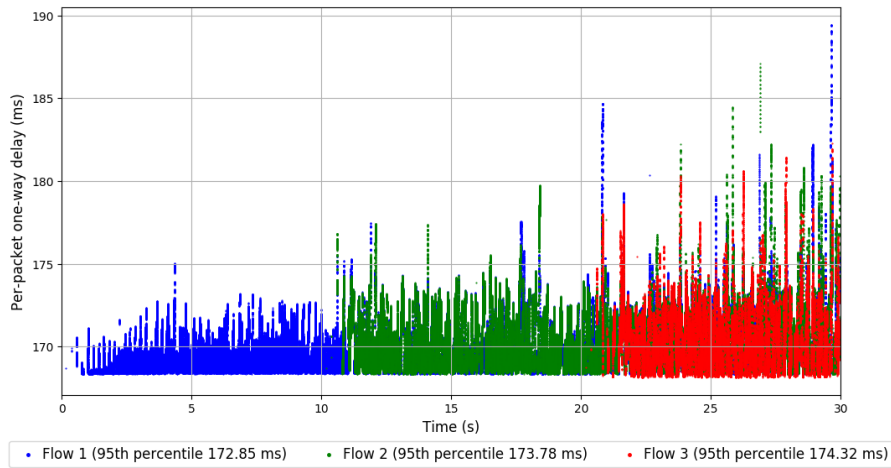
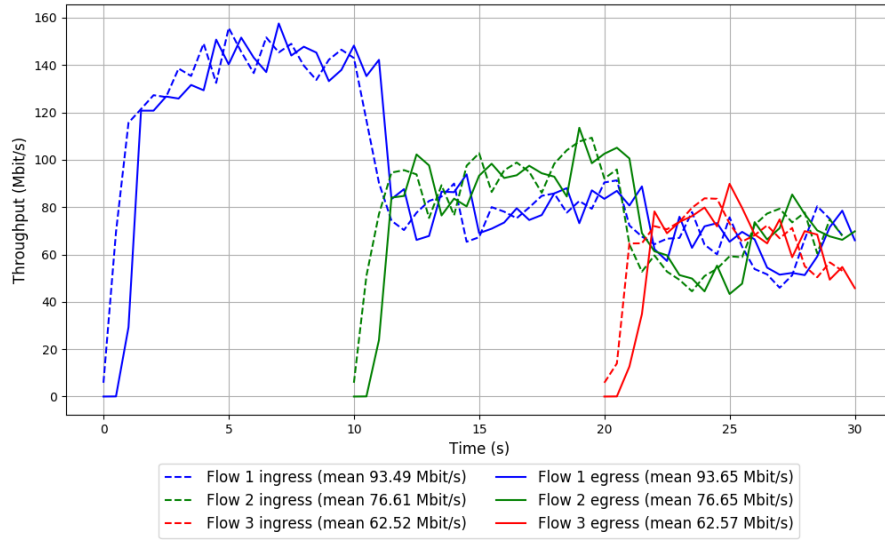


Run 1: Statistics of TaoVA-100x

Start at: 2019-12-11 15:19:56
End at: 2019-12-11 15:20:26
Local clock offset: 6.608 ms
Remote clock offset: -68.231 ms

```
# Below is generated by plot.py at 2019-12-11 18:21:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 165.00 Mbit/s
95th percentile per-packet one-way delay: 173.323 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 93.65 Mbit/s
95th percentile per-packet one-way delay: 172.852 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 76.65 Mbit/s
95th percentile per-packet one-way delay: 173.784 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 62.57 Mbit/s
95th percentile per-packet one-way delay: 174.322 ms
Loss rate: 1.93%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-12-11 15:54:48
End at: 2019-12-11 15:55:18
Local clock offset: 5.076 ms
Remote clock offset: -50.748 ms

Below is generated by plot.py at 2019-12-11 18:22:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 174.47 Mbit/s
95th percentile per-packet one-way delay: 156.669 ms
Loss rate: 0.72%

-- Flow 1:

Average throughput: 101.02 Mbit/s
95th percentile per-packet one-way delay: 155.913 ms
Loss rate: 0.41%

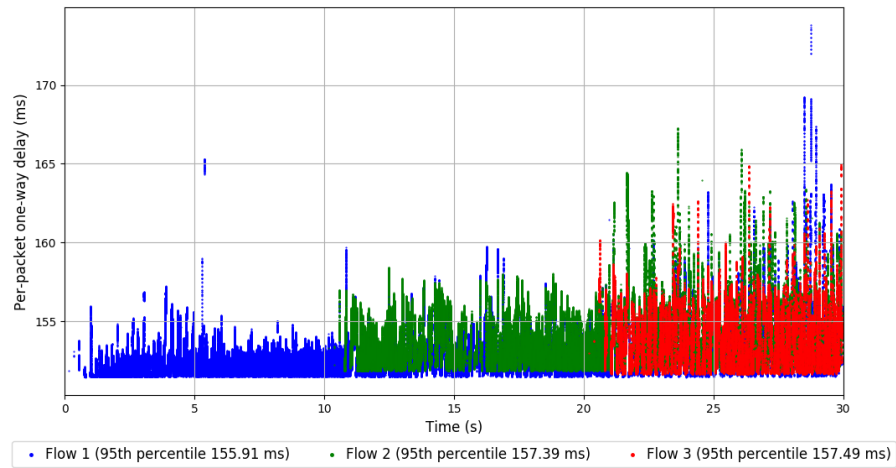
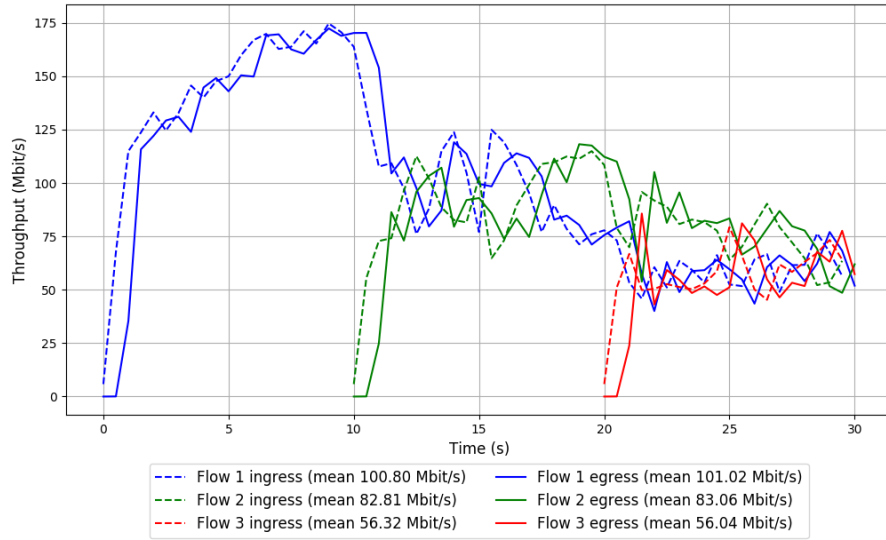
-- Flow 2:

Average throughput: 83.06 Mbit/s
95th percentile per-packet one-way delay: 157.392 ms
Loss rate: 0.72%

-- Flow 3:

Average throughput: 56.04 Mbit/s
95th percentile per-packet one-way delay: 157.485 ms
Loss rate: 2.38%

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

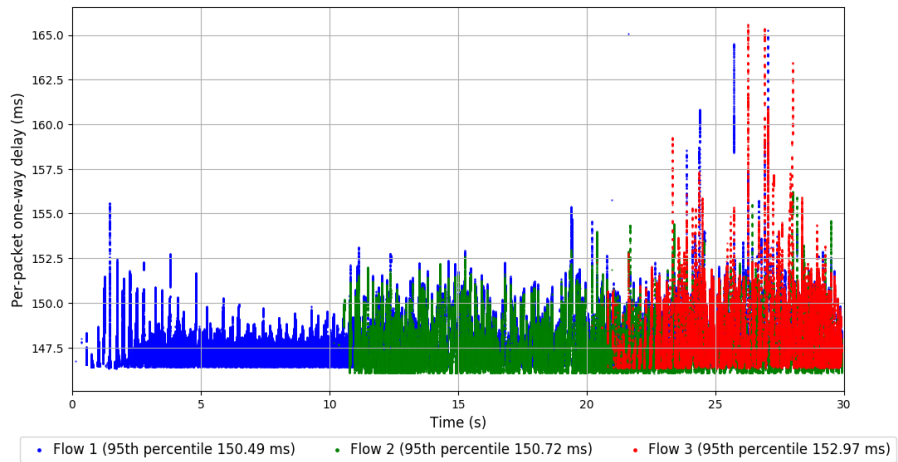
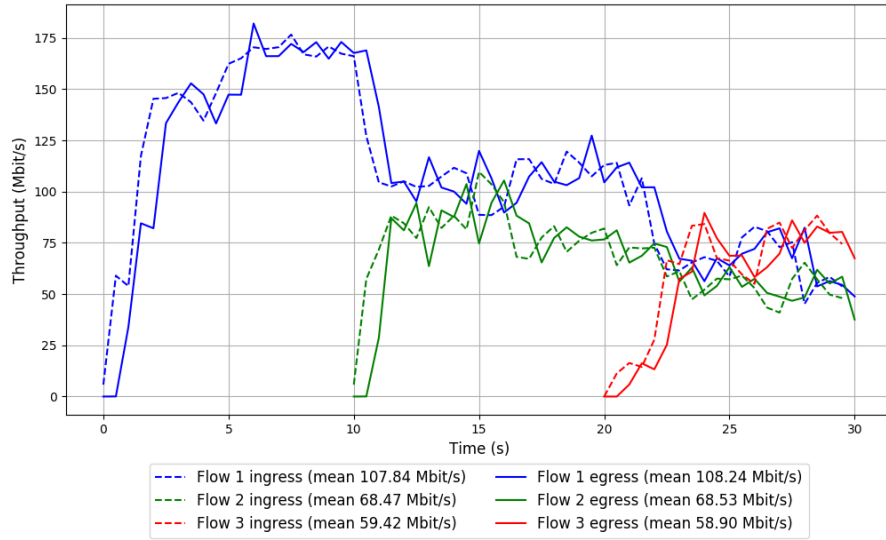


Run 3: Statistics of TaoVA-100x

Start at: 2019-12-11 16:30:04
End at: 2019-12-11 16:30:34
Local clock offset: 6.853 ms
Remote clock offset: -44.289 ms

```
# Below is generated by plot.py at 2019-12-11 18:22:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 172.96 Mbit/s
95th percentile per-packet one-way delay: 150.790 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 108.24 Mbit/s
95th percentile per-packet one-way delay: 150.494 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 68.53 Mbit/s
95th percentile per-packet one-way delay: 150.718 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 58.90 Mbit/s
95th percentile per-packet one-way delay: 152.965 ms
Loss rate: 2.87%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-12-11 17:04:46
End at: 2019-12-11 17:05:16
Local clock offset: 6.041 ms
Remote clock offset: -36.693 ms

Below is generated by plot.py at 2019-12-11 18:22:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 174.79 Mbit/s
95th percentile per-packet one-way delay: 143.706 ms
Loss rate: 0.83%

-- Flow 1:

Average throughput: 110.02 Mbit/s
95th percentile per-packet one-way delay: 143.308 ms
Loss rate: 0.31%

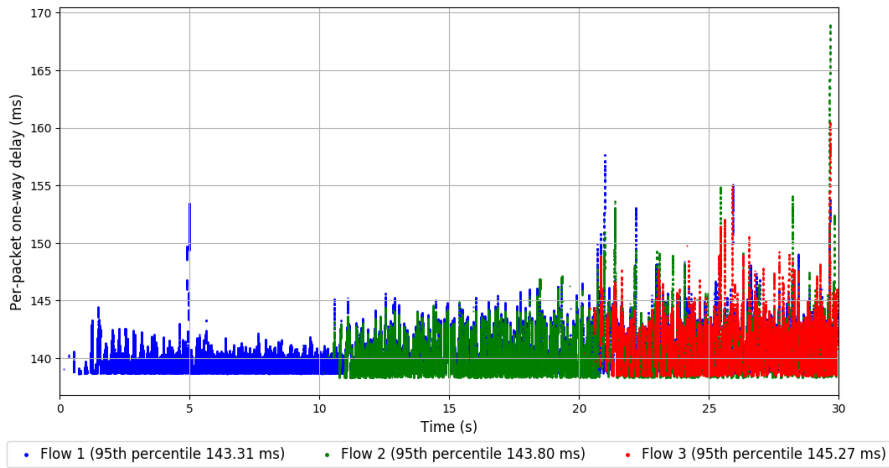
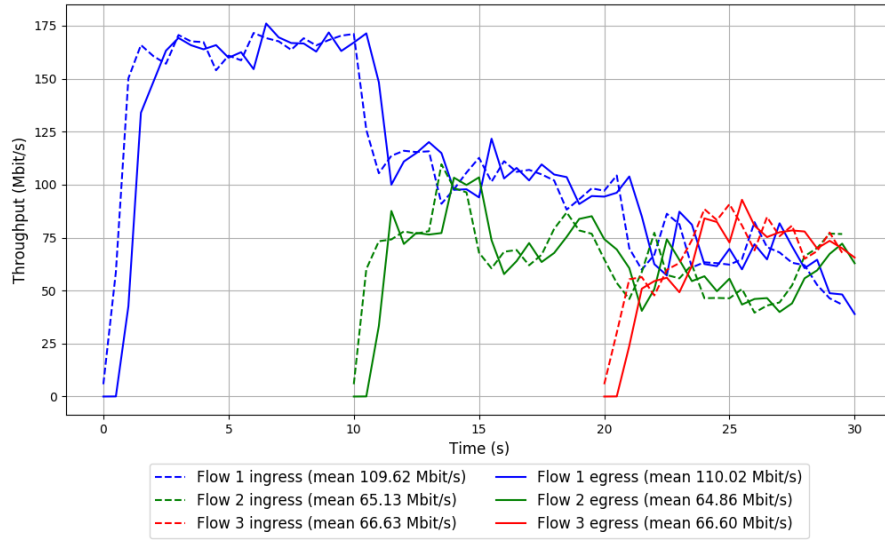
-- Flow 2:

Average throughput: 64.86 Mbit/s
95th percentile per-packet one-way delay: 143.804 ms
Loss rate: 1.53%

-- Flow 3:

Average throughput: 66.60 Mbit/s
95th percentile per-packet one-way delay: 145.266 ms
Loss rate: 2.04%

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

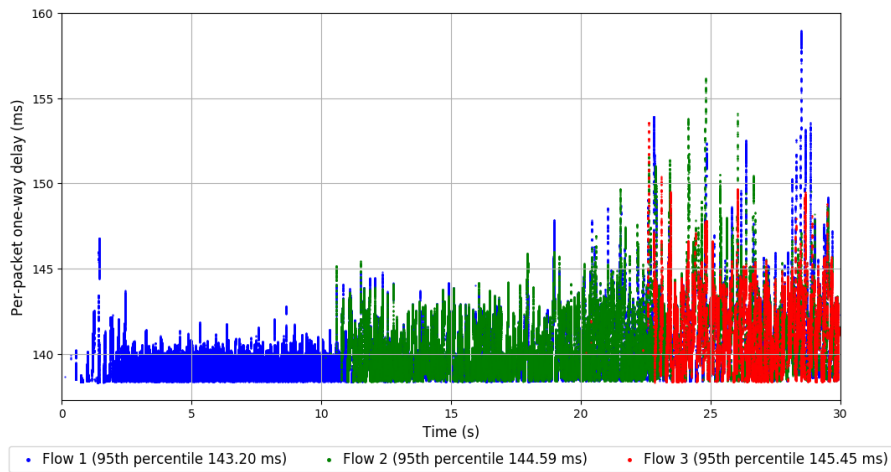
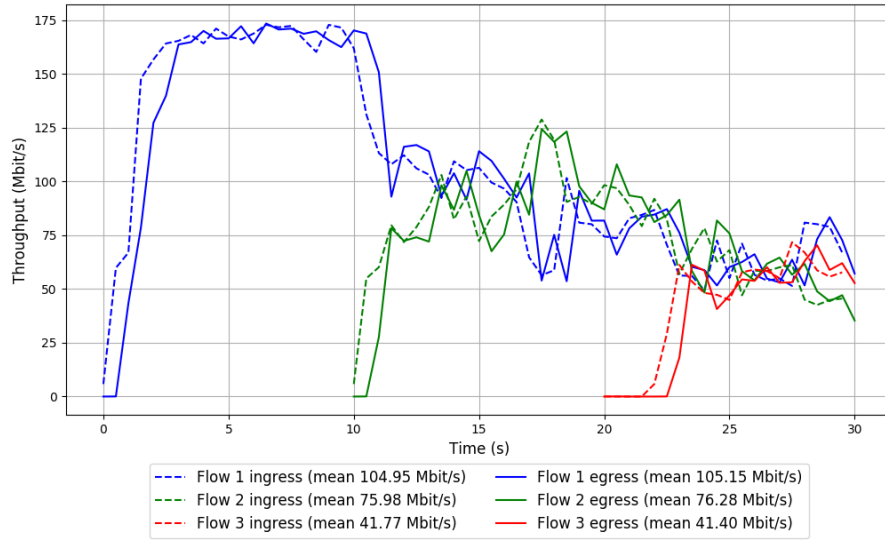


Run 5: Statistics of TaoVA-100x

Start at: 2019-12-11 17:39:43
End at: 2019-12-11 17:40:13
Local clock offset: 5.789 ms
Remote clock offset: -36.843 ms

```
# Below is generated by plot.py at 2019-12-11 18:22:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 169.30 Mbit/s
95th percentile per-packet one-way delay: 143.914 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 105.15 Mbit/s
95th percentile per-packet one-way delay: 143.202 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 76.28 Mbit/s
95th percentile per-packet one-way delay: 144.587 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 41.40 Mbit/s
95th percentile per-packet one-way delay: 145.447 ms
Loss rate: 2.90%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2019-12-11 15:21:30

End at: 2019-12-11 15:22:00

Local clock offset: 2.482 ms

Remote clock offset: -70.126 ms

Run 1: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of TCP Vegas

Start at: 2019-12-11 15:56:23

End at: 2019-12-11 15:56:53

Local clock offset: 1.745 ms

Remote clock offset: -47.783 ms

Run 2: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of TCP Vegas

Start at: 2019-12-11 16:31:38

End at: 2019-12-11 16:32:08

Local clock offset: 6.06 ms

Remote clock offset: -43.422 ms

Run 3: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of TCP Vegas

Start at: 2019-12-11 17:06:20

End at: 2019-12-11 17:06:50

Local clock offset: 0.763 ms

Remote clock offset: -36.427 ms

Run 4: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of TCP Vegas

Start at: 2019-12-11 17:41:17

End at: 2019-12-11 17:41:47

Local clock offset: 1.407 ms

Remote clock offset: -46.552 ms

Run 5: Report of TCP Vegas — Data Link

Figure is missing

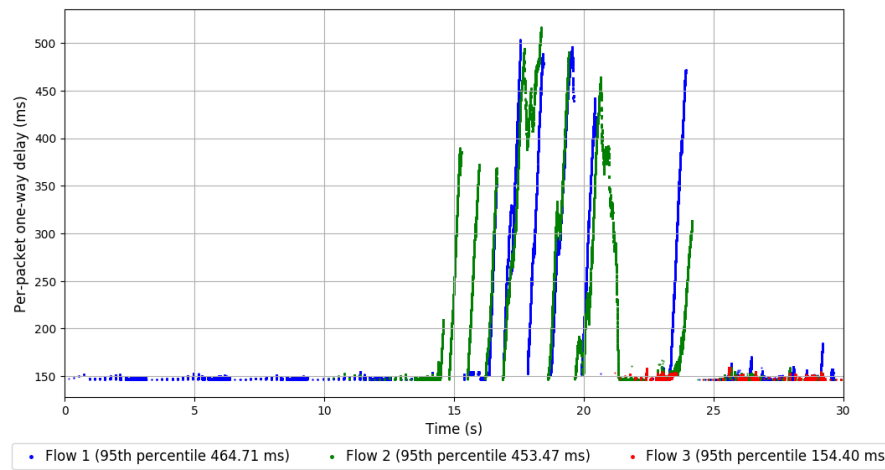
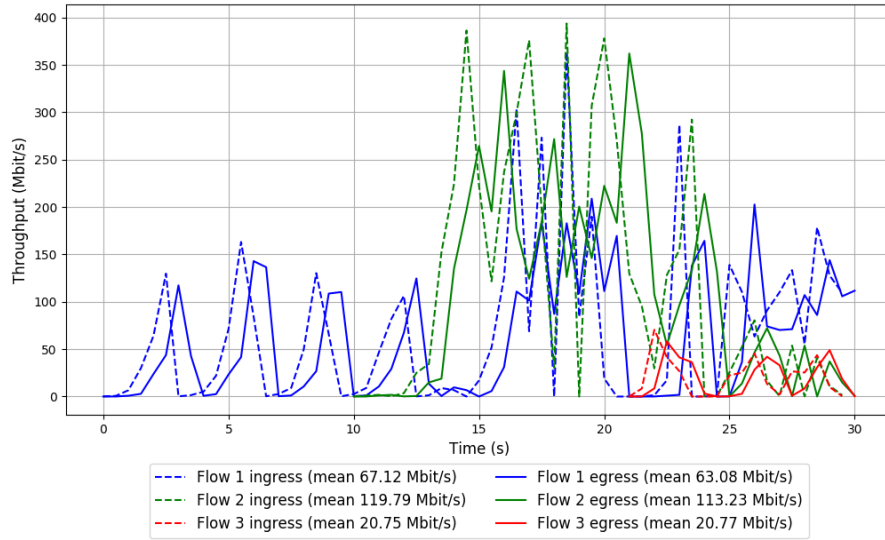
Figure is missing

Run 1: Statistics of Verus

Start at: 2019-12-11 15:05:22
End at: 2019-12-11 15:05:52
Local clock offset: 4.289 ms
Remote clock offset: -48.584 ms

```
# Below is generated by plot.py at 2019-12-11 18:22:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 143.70 Mbit/s
95th percentile per-packet one-way delay: 456.534 ms
Loss rate: 6.69%
-- Flow 1:
Average throughput: 63.08 Mbit/s
95th percentile per-packet one-way delay: 464.707 ms
Loss rate: 7.59%
-- Flow 2:
Average throughput: 113.23 Mbit/s
95th percentile per-packet one-way delay: 453.472 ms
Loss rate: 6.44%
-- Flow 3:
Average throughput: 20.77 Mbit/s
95th percentile per-packet one-way delay: 154.397 ms
Loss rate: 0.00%
```

Run 1: Report of Verus — Data Link

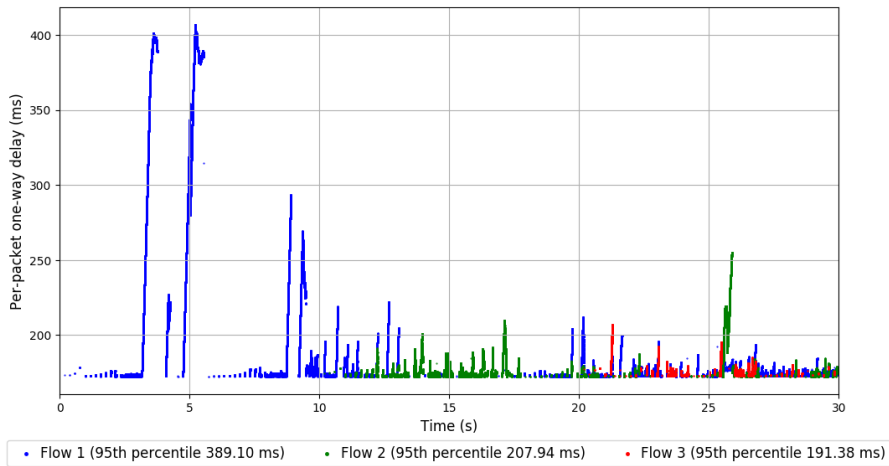
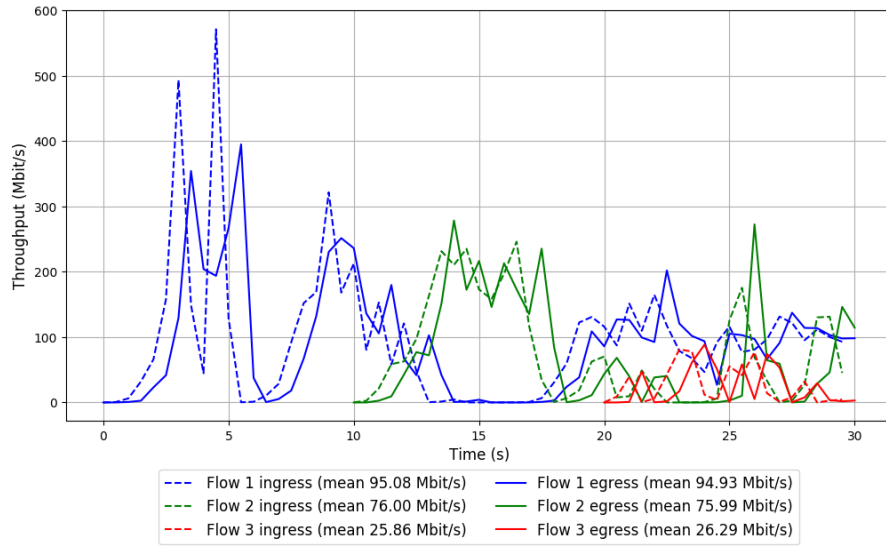


Run 2: Statistics of Verus

Start at: 2019-12-11 15:40:28
End at: 2019-12-11 15:40:58
Local clock offset: 4.386 ms
Remote clock offset: -74.119 ms

```
# Below is generated by plot.py at 2019-12-11 18:22:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 153.87 Mbit/s
95th percentile per-packet one-way delay: 382.484 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 94.93 Mbit/s
95th percentile per-packet one-way delay: 389.102 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 75.99 Mbit/s
95th percentile per-packet one-way delay: 207.941 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 26.29 Mbit/s
95th percentile per-packet one-way delay: 191.379 ms
Loss rate: 0.51%
```

Run 2: Report of Verus — Data Link

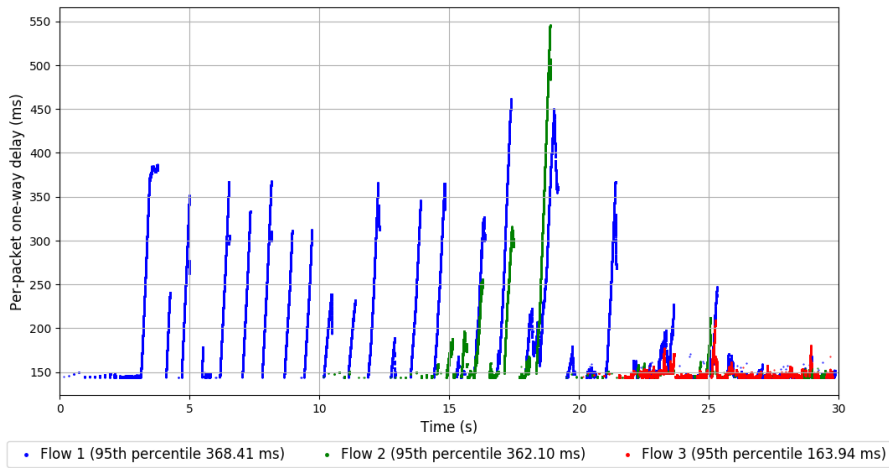
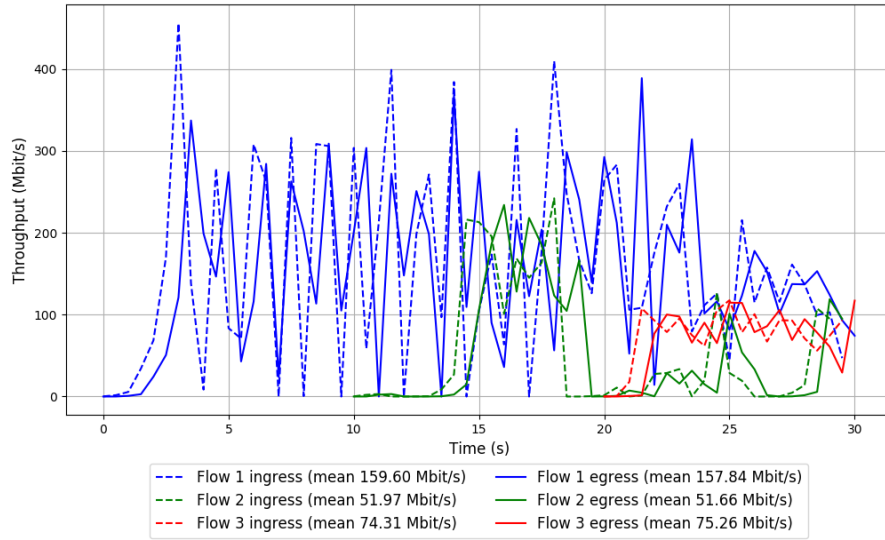


Run 3: Statistics of Verus

Start at: 2019-12-11 16:15:34
End at: 2019-12-11 16:16:04
Local clock offset: 6.08 ms
Remote clock offset: -42.296 ms

```
# Below is generated by plot.py at 2019-12-11 18:22:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 215.78 Mbit/s
95th percentile per-packet one-way delay: 361.802 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 157.84 Mbit/s
95th percentile per-packet one-way delay: 368.413 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 51.66 Mbit/s
95th percentile per-packet one-way delay: 362.100 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 75.26 Mbit/s
95th percentile per-packet one-way delay: 163.938 ms
Loss rate: 2.27%
```

Run 3: Report of Verus — Data Link

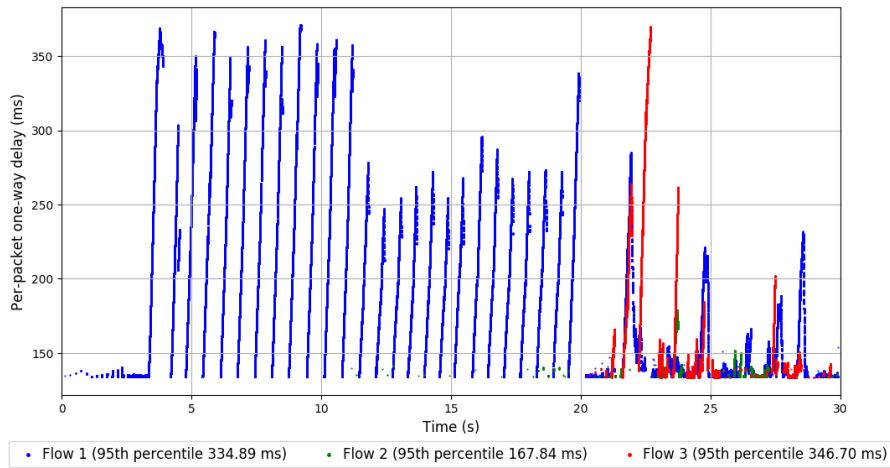
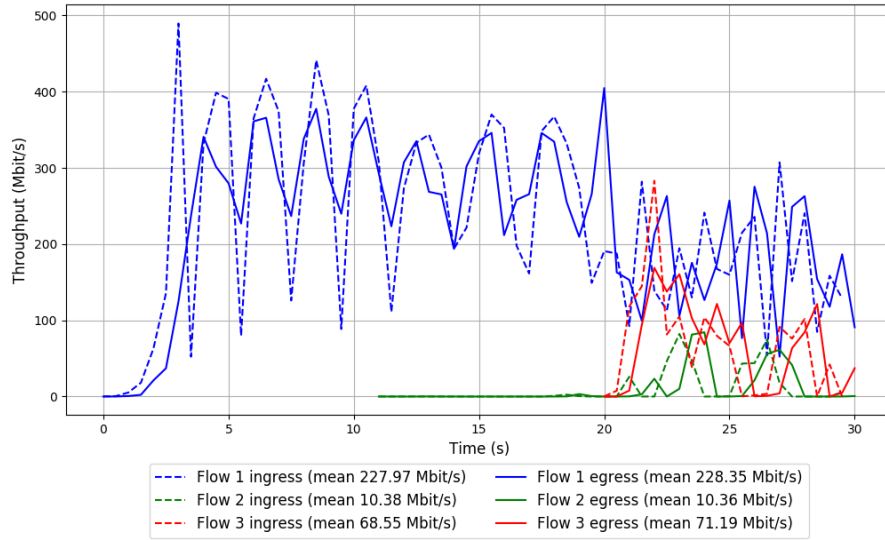


Run 4: Statistics of Verus

Start at: 2019-12-11 16:50:19
End at: 2019-12-11 16:50:49
Local clock offset: 1.119 ms
Remote clock offset: -37.06 ms

```
# Below is generated by plot.py at 2019-12-11 18:23:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 257.46 Mbit/s
95th percentile per-packet one-way delay: 334.943 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 228.35 Mbit/s
95th percentile per-packet one-way delay: 334.886 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 10.36 Mbit/s
95th percentile per-packet one-way delay: 167.844 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 71.19 Mbit/s
95th percentile per-packet one-way delay: 346.700 ms
Loss rate: 0.03%
```

Run 4: Report of Verus — Data Link

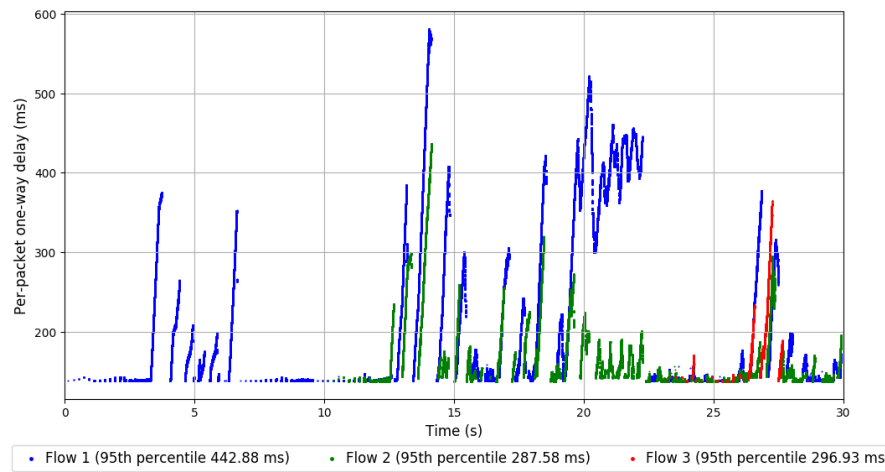
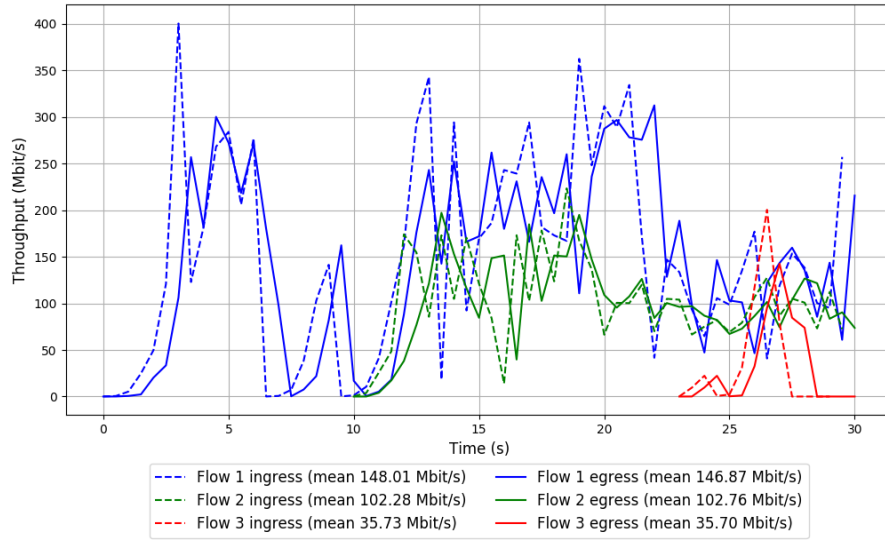


Run 5: Statistics of Verus

Start at: 2019-12-11 17:25:20
End at: 2019-12-11 17:25:50
Local clock offset: 1.689 ms
Remote clock offset: -40.328 ms

```
# Below is generated by plot.py at 2019-12-11 18:23:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 222.87 Mbit/s
95th percentile per-packet one-way delay: 427.963 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 146.87 Mbit/s
95th percentile per-packet one-way delay: 442.878 ms
Loss rate: 1.27%
-- Flow 2:
Average throughput: 102.76 Mbit/s
95th percentile per-packet one-way delay: 287.583 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 35.70 Mbit/s
95th percentile per-packet one-way delay: 296.925 ms
Loss rate: 0.04%
```

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-12-11 15:15:13
End at: 2019-12-11 15:15:43
Local clock offset: 6.641 ms
Remote clock offset: -73.684 ms

Below is generated by plot.py at 2019-12-11 18:24:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 208.59 Mbit/s
95th percentile per-packet one-way delay: 177.163 ms
Loss rate: 0.75%

-- Flow 1:

Average throughput: 170.12 Mbit/s
95th percentile per-packet one-way delay: 177.194 ms
Loss rate: 0.45%

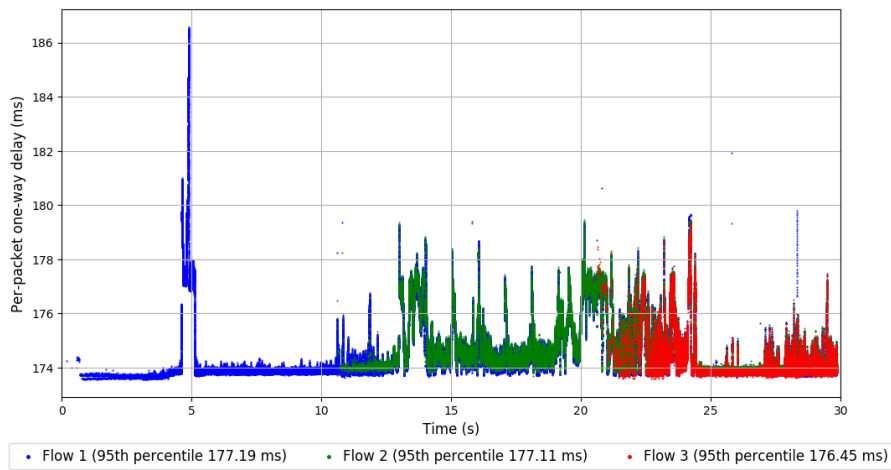
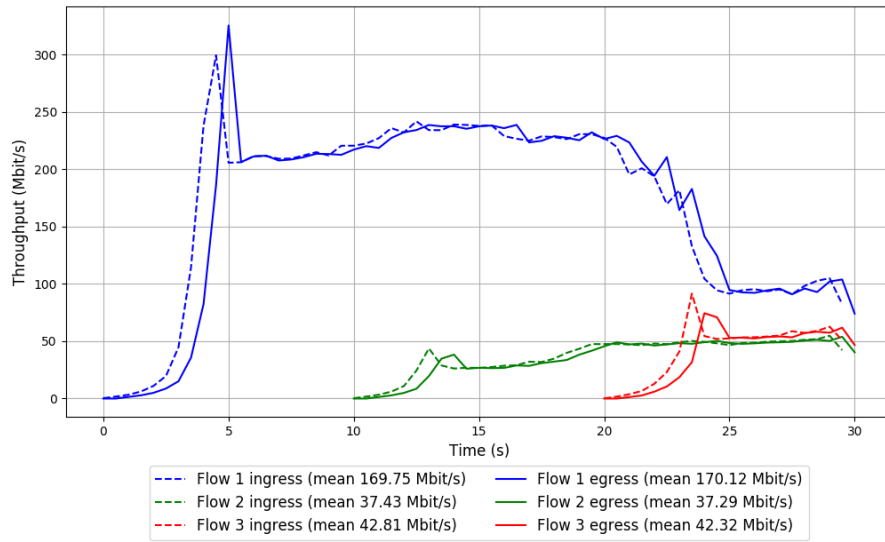
-- Flow 2:

Average throughput: 37.29 Mbit/s
95th percentile per-packet one-way delay: 177.113 ms
Loss rate: 1.43%

-- Flow 3:

Average throughput: 42.32 Mbit/s
95th percentile per-packet one-way delay: 176.447 ms
Loss rate: 3.18%

Run 1: Report of PCC-Vivace — Data Link

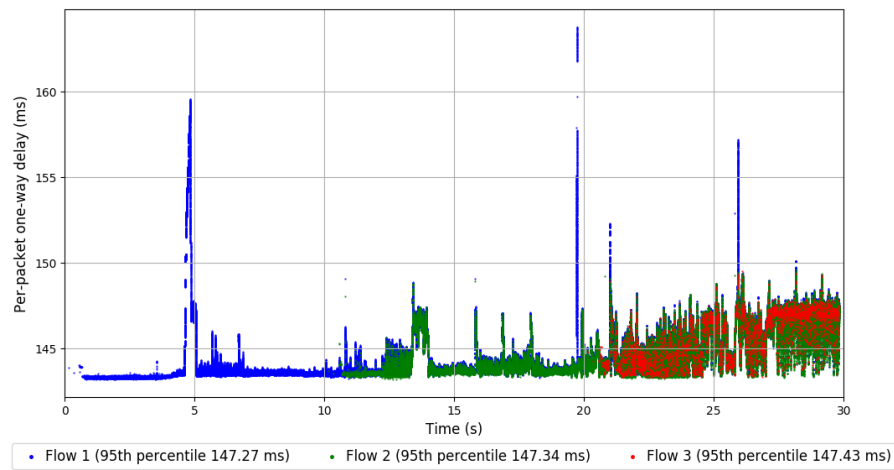
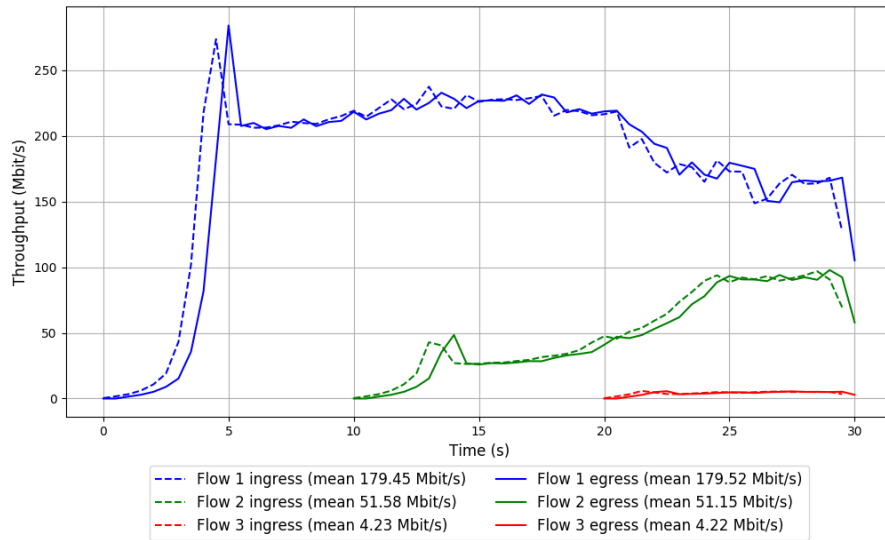


Run 2: Statistics of PCC-Vivace

Start at: 2019-12-11 15:50:14
End at: 2019-12-11 15:50:44
Local clock offset: 5.819 ms
Remote clock offset: -42.223 ms

Below is generated by plot.py at 2019-12-11 18:24:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 214.79 Mbit/s
95th percentile per-packet one-way delay: 147.290 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 179.52 Mbit/s
95th percentile per-packet one-way delay: 147.269 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 51.15 Mbit/s
95th percentile per-packet one-way delay: 147.337 ms
Loss rate: 1.85%
-- Flow 3:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 147.434 ms
Loss rate: 2.27%

Run 2: Report of PCC-Vivace — Data Link

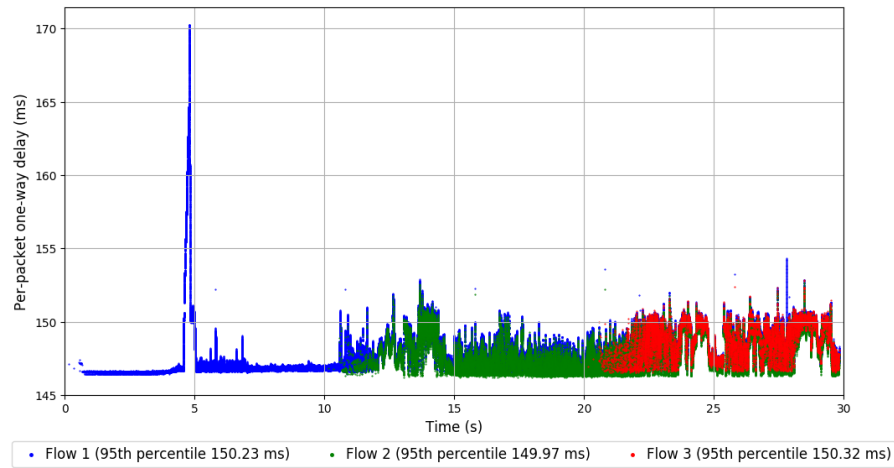
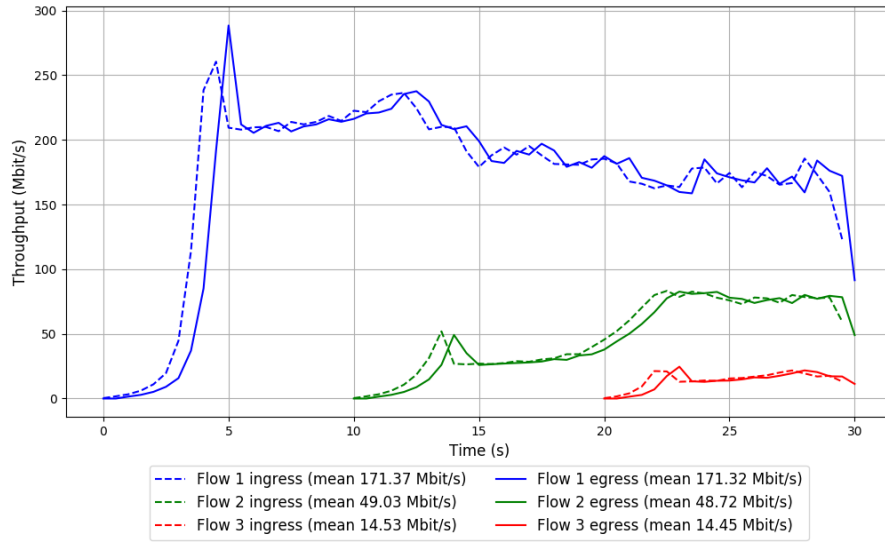


Run 3: Statistics of PCC-Vivace

Start at: 2019-12-11 16:25:30
End at: 2019-12-11 16:26:00
Local clock offset: 0.757 ms
Remote clock offset: -50.528 ms

```
# Below is generated by plot.py at 2019-12-11 18:24:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 208.33 Mbit/s
95th percentile per-packet one-way delay: 150.189 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 171.32 Mbit/s
95th percentile per-packet one-way delay: 150.233 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 48.72 Mbit/s
95th percentile per-packet one-way delay: 149.970 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 14.45 Mbit/s
95th percentile per-packet one-way delay: 150.321 ms
Loss rate: 2.58%
```

Run 3: Report of PCC-Vivace — Data Link

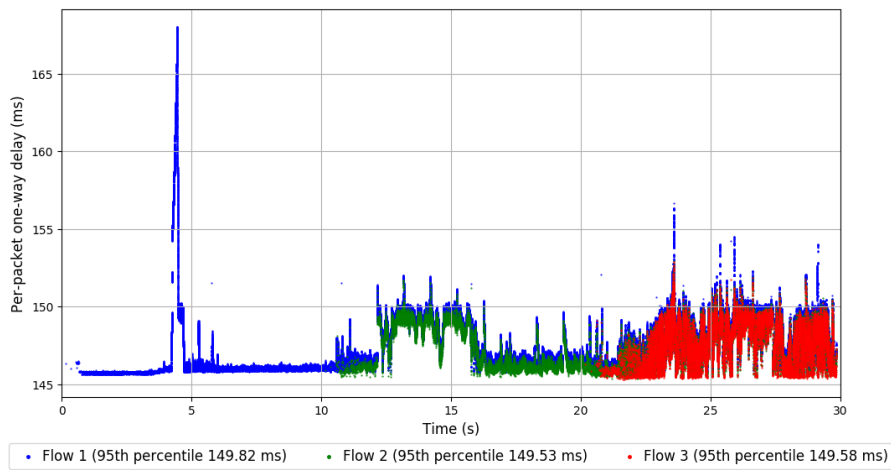
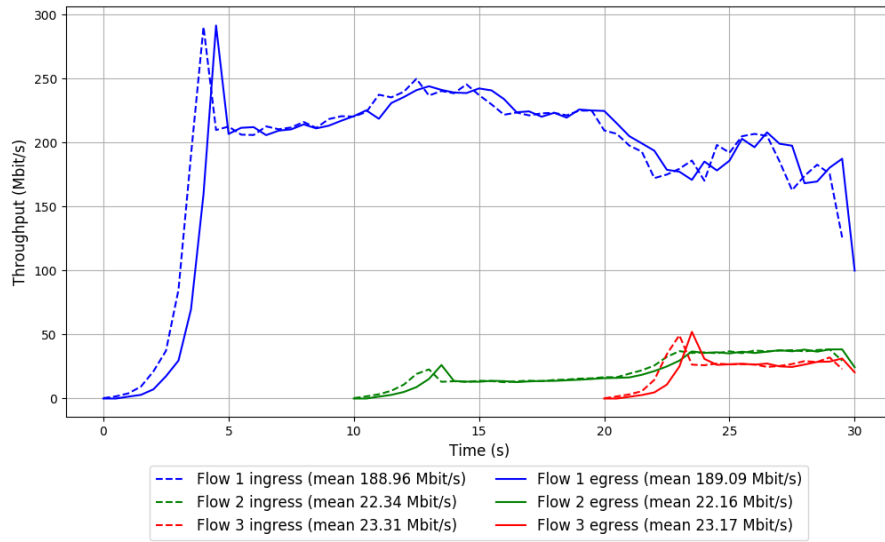


Run 4: Statistics of PCC-Vivace

Start at: 2019-12-11 17:00:10
End at: 2019-12-11 17:00:40
Local clock offset: 5.569 ms
Remote clock offset: -44.365 ms

```
# Below is generated by plot.py at 2019-12-11 18:24:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 211.29 Mbit/s
95th percentile per-packet one-way delay: 149.801 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 189.09 Mbit/s
95th percentile per-packet one-way delay: 149.822 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 22.16 Mbit/s
95th percentile per-packet one-way delay: 149.526 ms
Loss rate: 1.81%
-- Flow 3:
Average throughput: 23.17 Mbit/s
95th percentile per-packet one-way delay: 149.578 ms
Loss rate: 2.64%
```

Run 4: Report of PCC-Vivace — Data Link

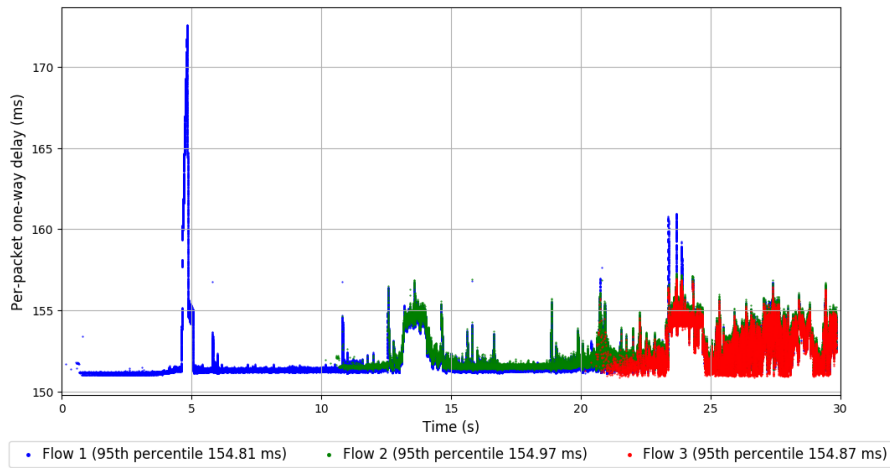
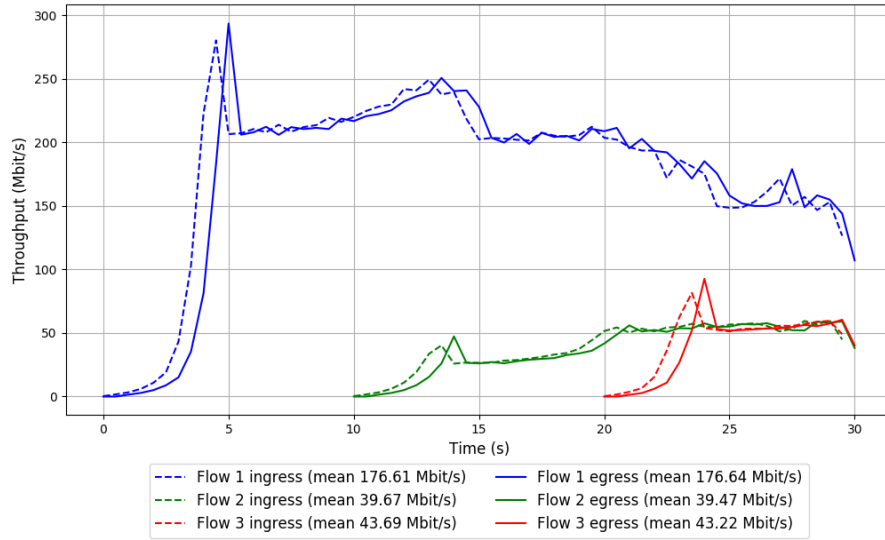


Run 5: Statistics of PCC-Vivace

Start at: 2019-12-11 17:35:10
End at: 2019-12-11 17:35:40
Local clock offset: 6.917 ms
Remote clock offset: -48.671 ms

```
# Below is generated by plot.py at 2019-12-11 18:24:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 216.84 Mbit/s
95th percentile per-packet one-way delay: 154.842 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 176.64 Mbit/s
95th percentile per-packet one-way delay: 154.807 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 39.47 Mbit/s
95th percentile per-packet one-way delay: 154.965 ms
Loss rate: 1.56%
-- Flow 3:
Average throughput: 43.22 Mbit/s
95th percentile per-packet one-way delay: 154.872 ms
Loss rate: 3.17%
```

Run 5: Report of PCC-Vivace — Data Link

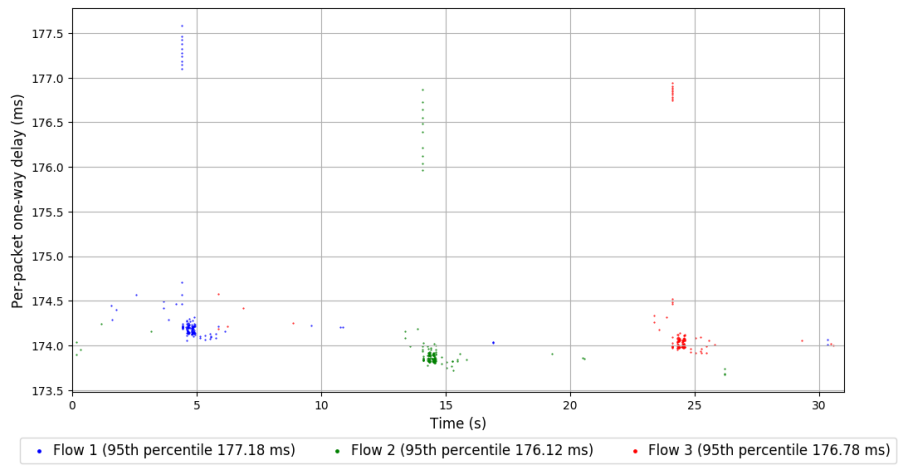
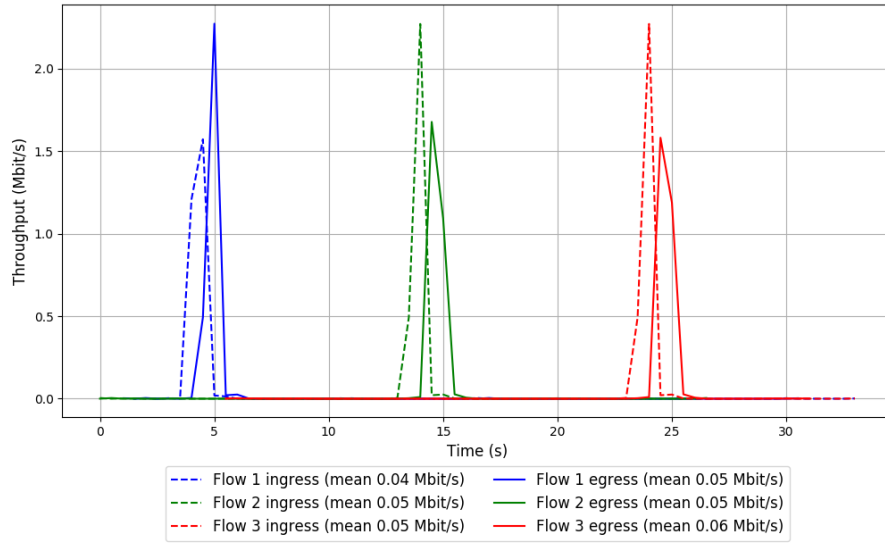


Run 1: Statistics of WebRTC media

Start at: 2019-12-11 14:53:32
End at: 2019-12-11 14:54:02
Local clock offset: 6.119 ms
Remote clock offset: -73.998 ms

```
# Below is generated by plot.py at 2019-12-11 18:24:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 176.640 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 177.180 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 176.119 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 176.780 ms
Loss rate: 0.05%
```

Run 1: Report of WebRTC media — Data Link

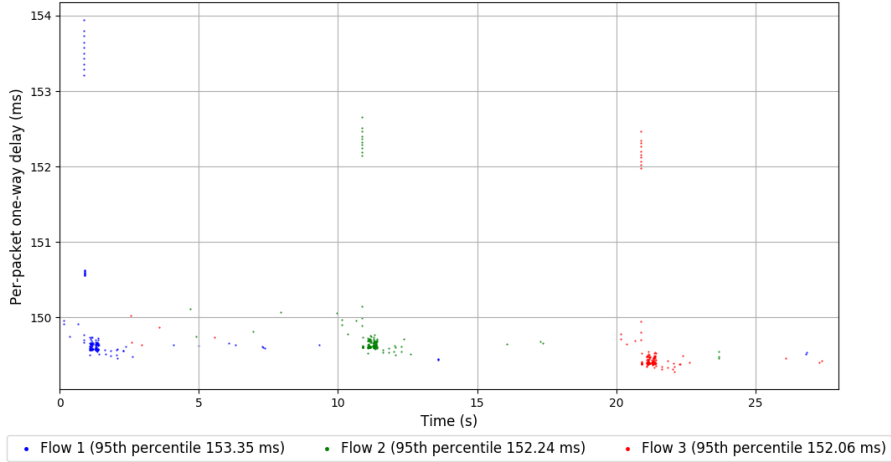
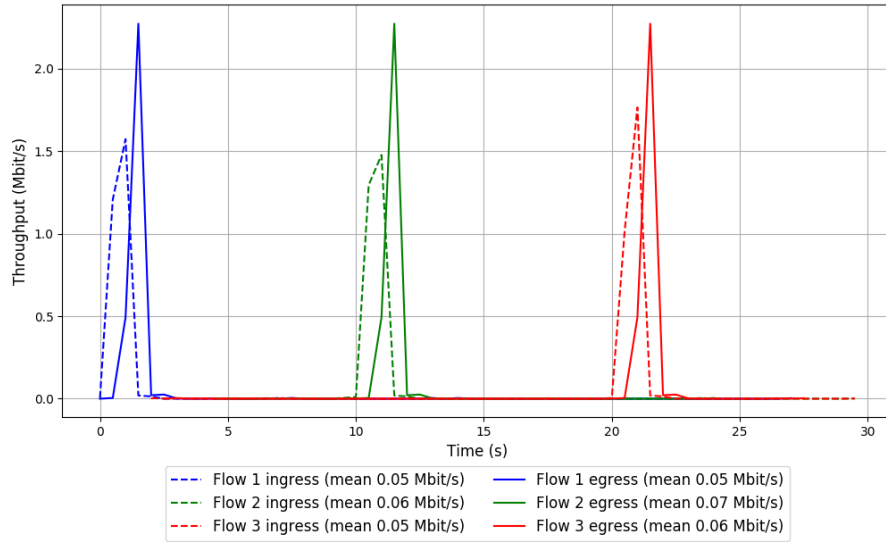


Run 2: Statistics of WebRTC media

Start at: 2019-12-11 15:28:27
End at: 2019-12-11 15:28:57
Local clock offset: 2.19 ms
Remote clock offset: -54.147 ms

```
# Below is generated by plot.py at 2019-12-11 18:24:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 152.203 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 153.349 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 152.242 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 152.063 ms
Loss rate: 0.05%
```

Run 2: Report of WebRTC media — Data Link

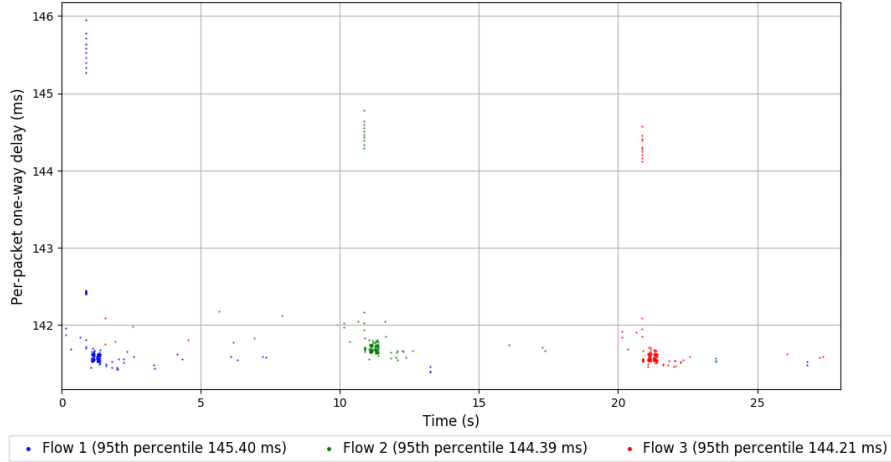
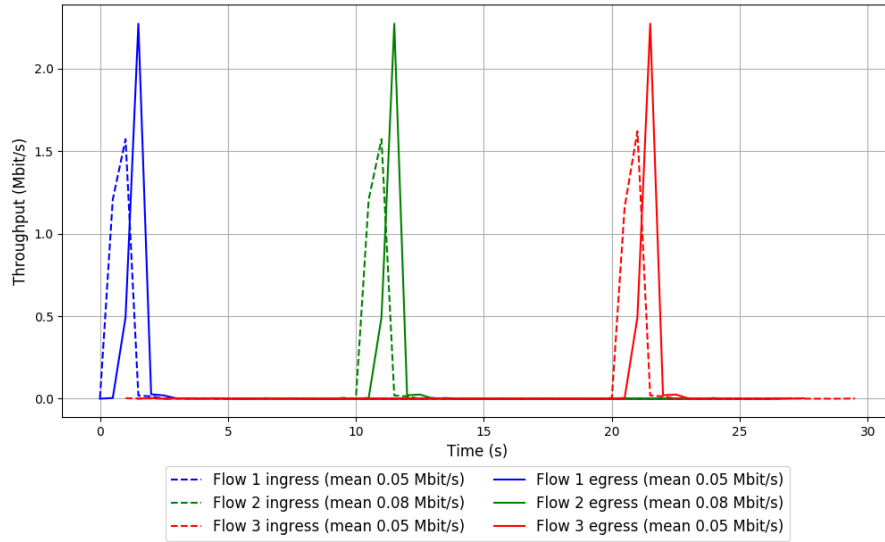


Run 3: Statistics of WebRTC media

Start at: 2019-12-11 16:03:19
End at: 2019-12-11 16:03:49
Local clock offset: 0.542 ms
Remote clock offset: -44.69 ms

```
# Below is generated by plot.py at 2019-12-11 18:24:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 144.335 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 145.398 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 144.386 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 144.208 ms
Loss rate: 0.05%
```

Run 3: Report of WebRTC media — Data Link

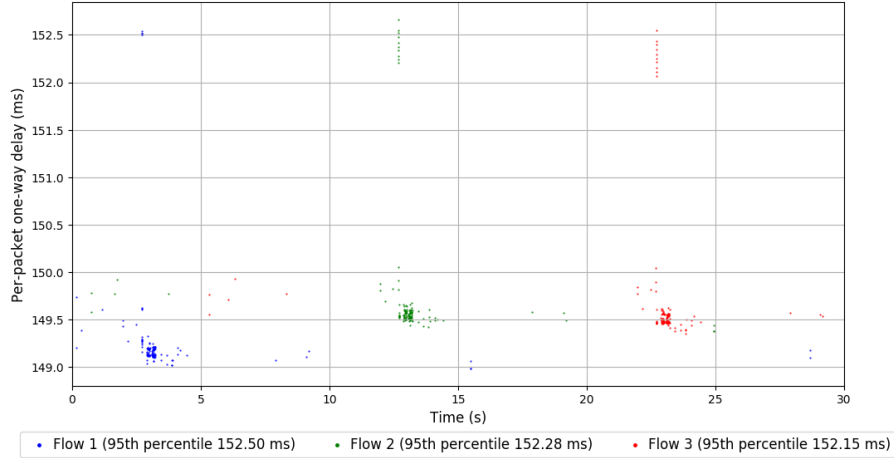
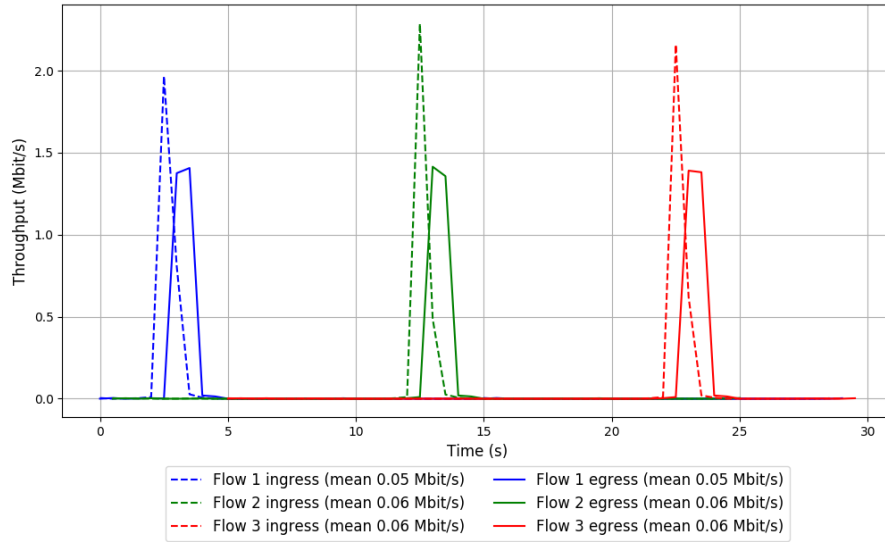


Run 4: Statistics of WebRTC media

Start at: 2019-12-11 16:38:33
End at: 2019-12-11 16:39:03
Local clock offset: 7.103 ms
Remote clock offset: -47.04 ms

```
# Below is generated by plot.py at 2019-12-11 18:24:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 152.279 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 152.505 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 152.279 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 152.151 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-12-11 17:13:14
End at: 2019-12-11 17:13:44
Local clock offset: 2.312 ms
Remote clock offset: -37.226 ms

```
# Below is generated by plot.py at 2019-12-11 18:24:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 137.811 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 139.096 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 137.950 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 137.521 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

