To cause congestion at the same time Traffic generator has following configuration.
  Port Send Mode = Synchronous
  Flow Control  = disable
RFC8239 Data Center Benchmarking Methodology

3. Buffering Testing

Measure latency per frame @64 bytes frame

Latency per frame (us)

Buffered frames = 24

Received frame number

Drop frame

Total buffered frames = 24 + 24 = 48

Buffer scope

DUT

oversubscription

100% Rate

100% Rate
3. Buffering Testing

Measure latency per frame @64 bytes frame

Total buffered frames = 12 + 12 + 12 = 36
Since the test frame also flows to the Rx port side during the transmission of the test frame, it is not known whether all the test frames were accumulated in the buffer.
RFC8239 Buffering with Rx Pause

**Phase 1 frame store**

- Fill the buffer.
- Overflow frames are discarded.

**Phase 2 Extract frame**

- Test frame does not flow to the Rx port side.
- Rx frames = Buffered frames
- We can know more accurate number of buffers.
RFC8239 Buffering with Rx Pause

100% Rate

100% Rate

100% Rate

DUT

Pause Frame

oversubscription

Buffer scope

Total buffered frames = 10 + 9 + 9
= 28

Latency per frame (us)

Measure latency per frame

@64 bytes frame

DUT Latency + Pause Time

Buffered frames = 10

Buffered frames = 9

Received frame number

Drop frame

Received frame number

Drop frame

Total buffered frames = 10 + 9 + 9
= 28