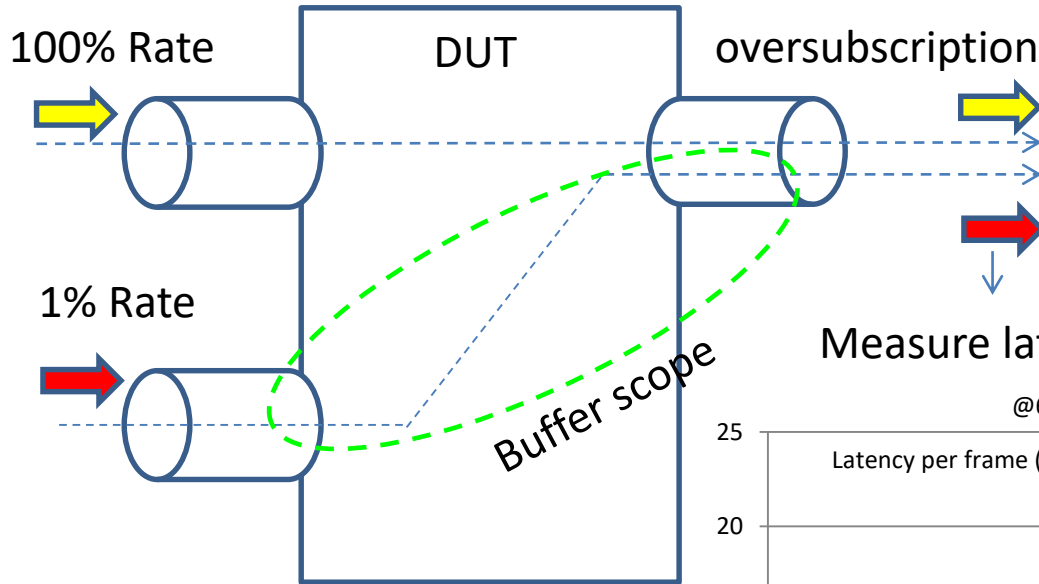


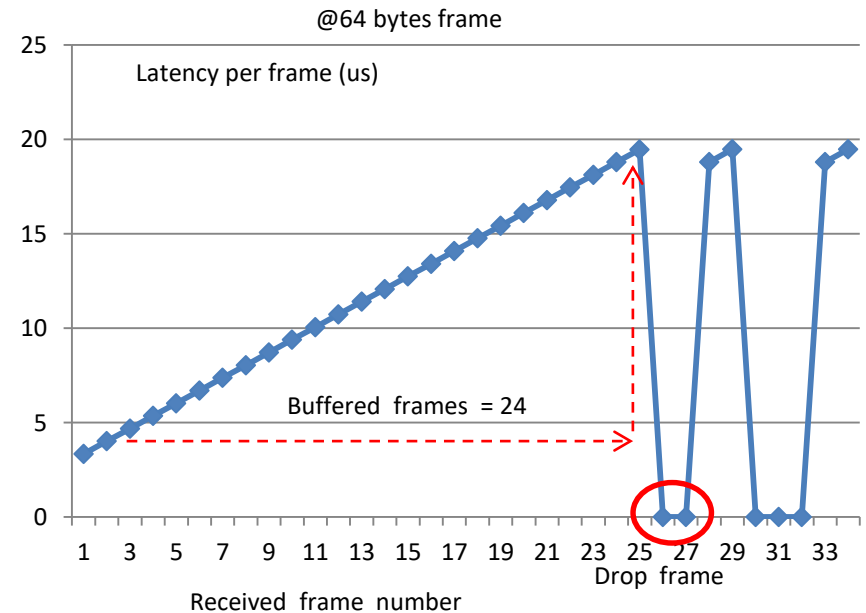
RFC8239 Data Center Benchmarking Methodology

3. Buffering Testing

2018.7.3
2018.7.24 PAUSE



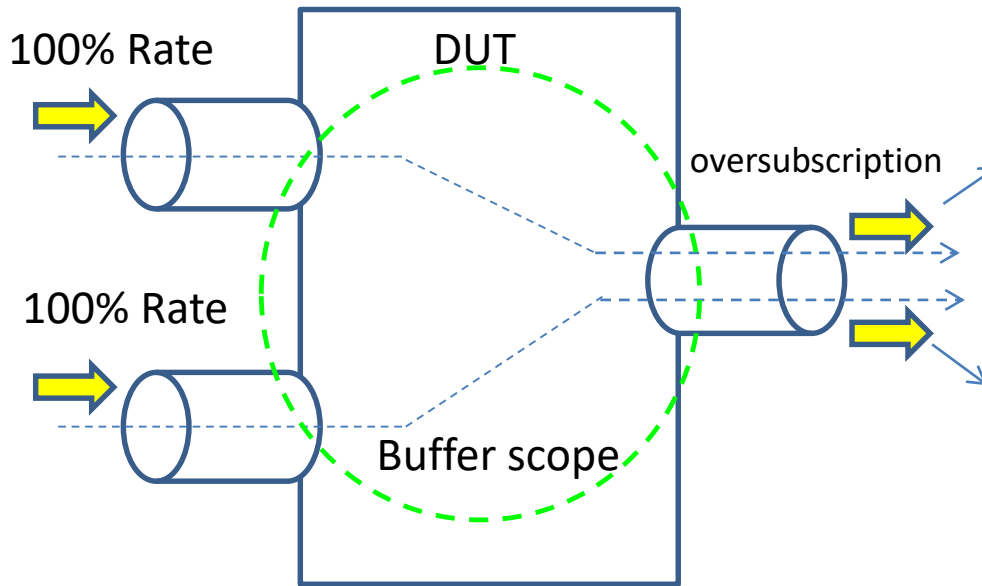
Measure latency per frame



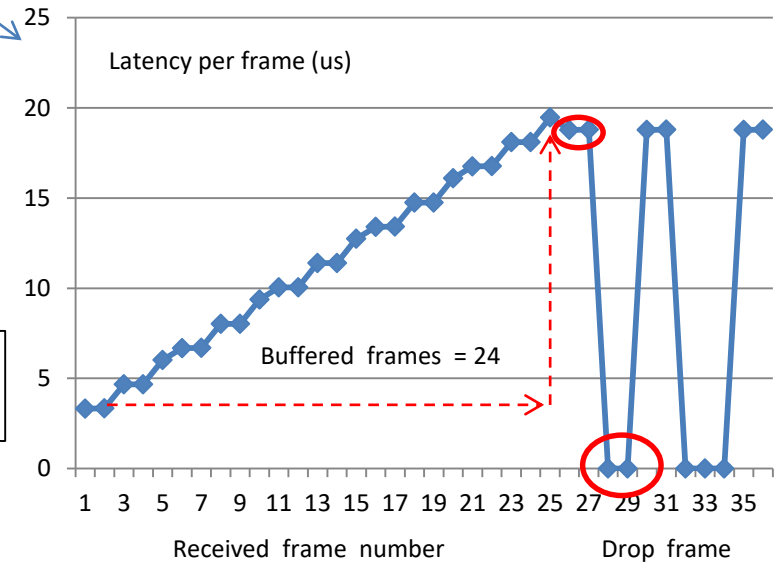
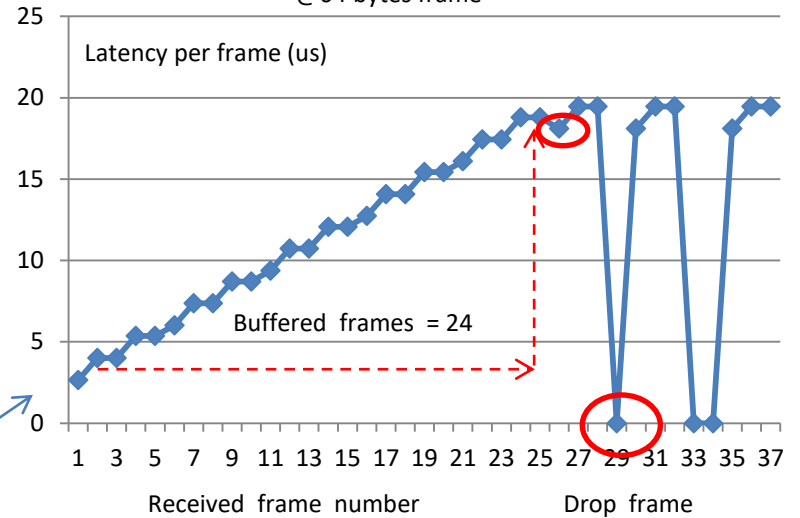
To cause congestion at the same time
Traffic generator has following configuration.
Port Send Mode = Synchronous
Flow Control = disable

RFC8239 Data Center Benchmarking Methodology

3. Buffering Testing

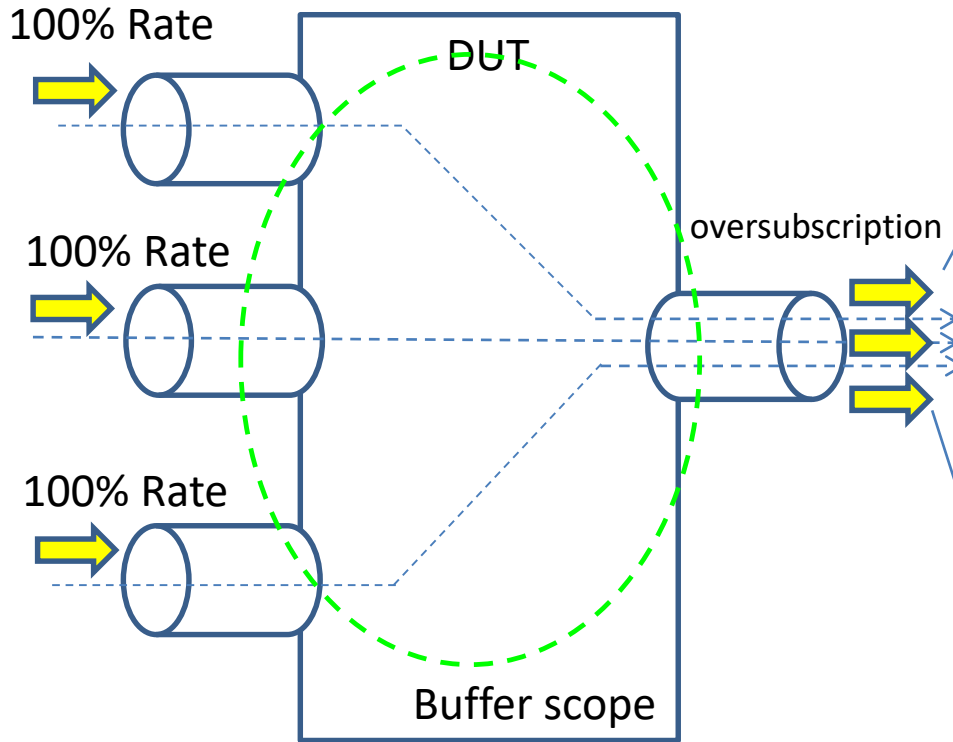


Measure latency per frame
@64 bytes frame



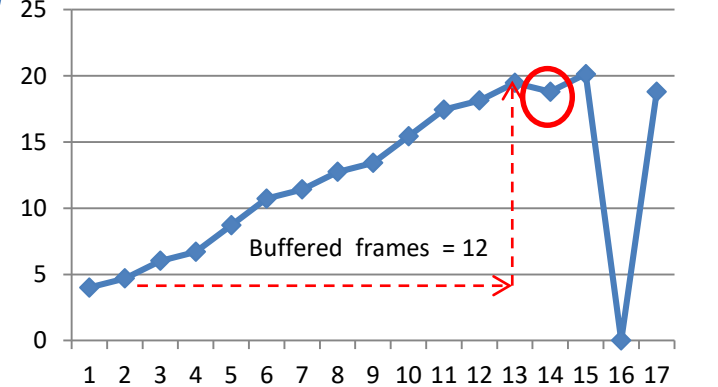
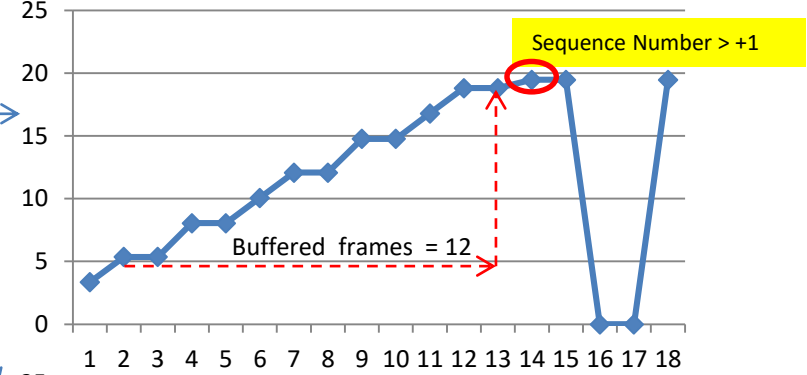
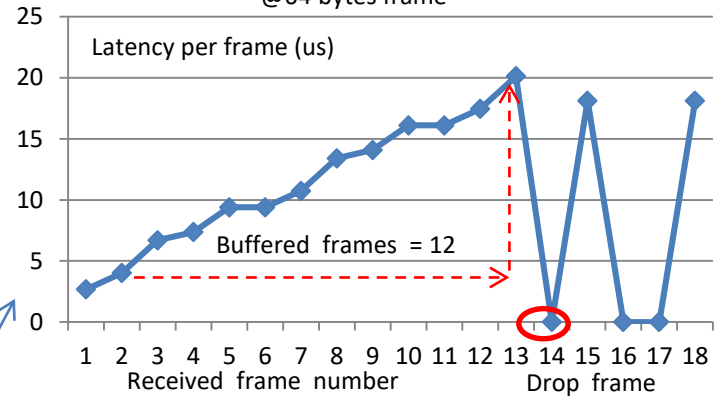
RFC8239 Data Center Benchmarking Methodology

3. Buffering Testing

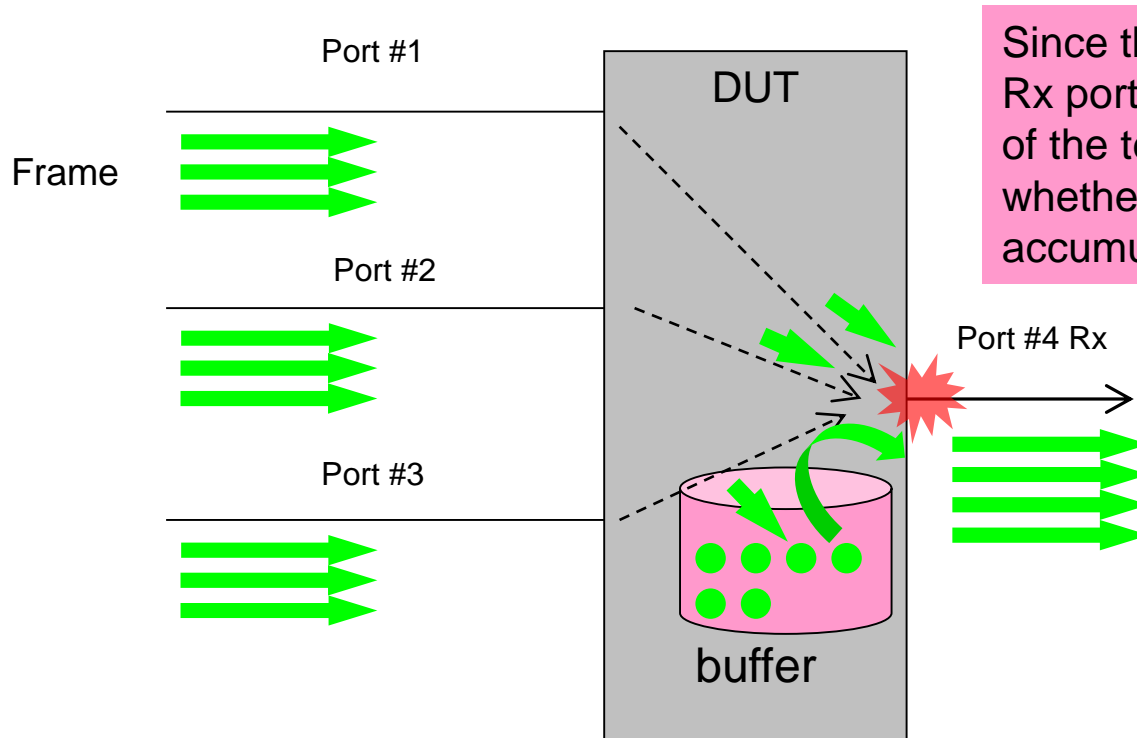


Total buffered frames = 12 + 12 + 12
= 36

Measure latency per frame @64 bytes frame



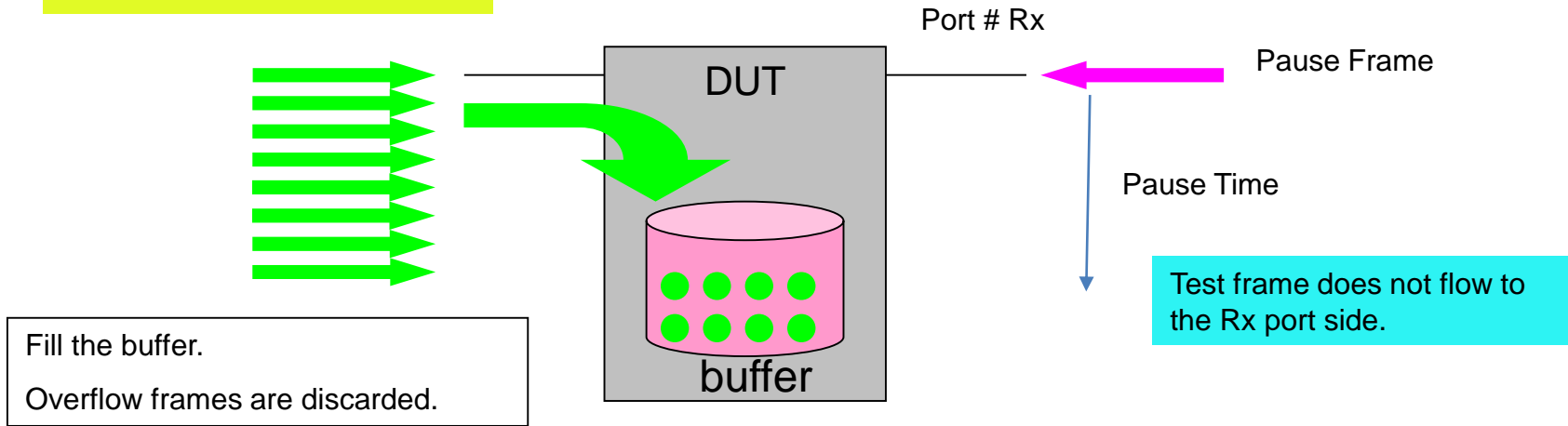
RFC2544 back-to-back and RFC8239 Buffering



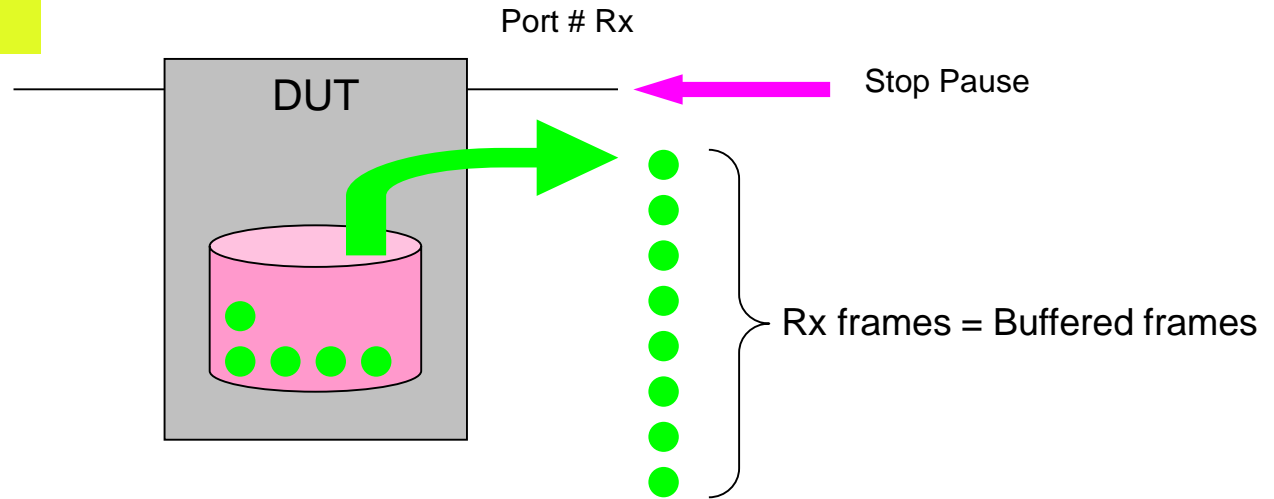
Since the test frame also flows to the Rx port side during the transmission of the test frame, it is not known whether all the test frames were accumulated in the buffer.

RFC8239 Buffering with Rx Pause

Phase 1 frame store

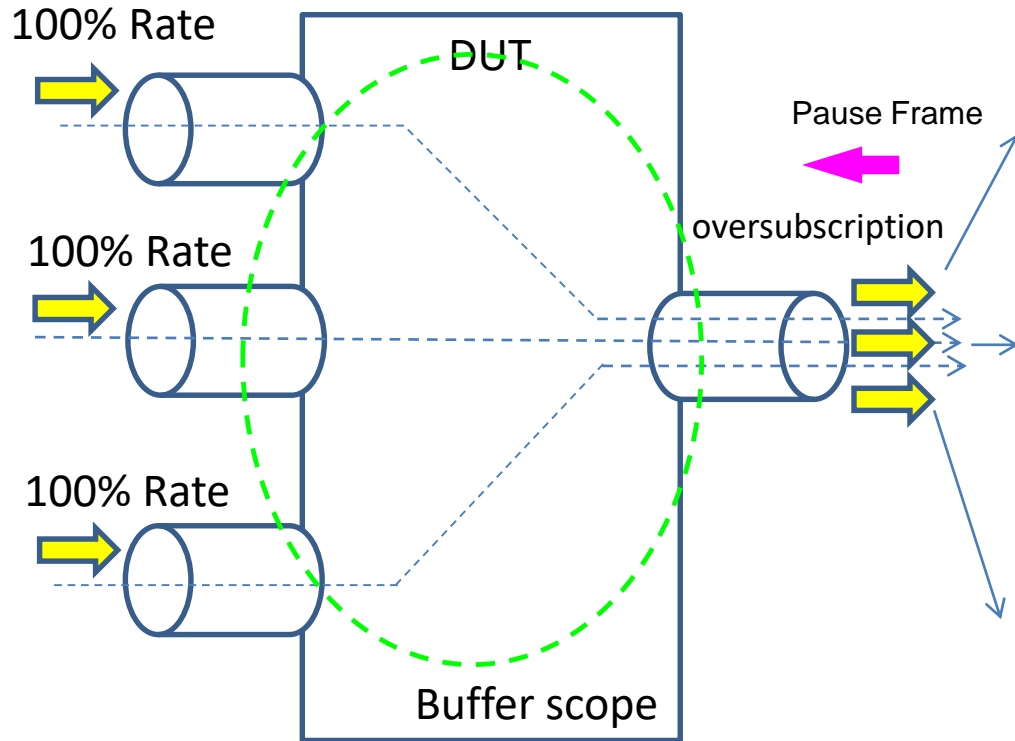


Phase 2 Extract frame



We can know more accurate number of buffers.

RFC8239 Buffering with Rx Pause



Total buffered frames = 10 + 9 + 9
= 28

