

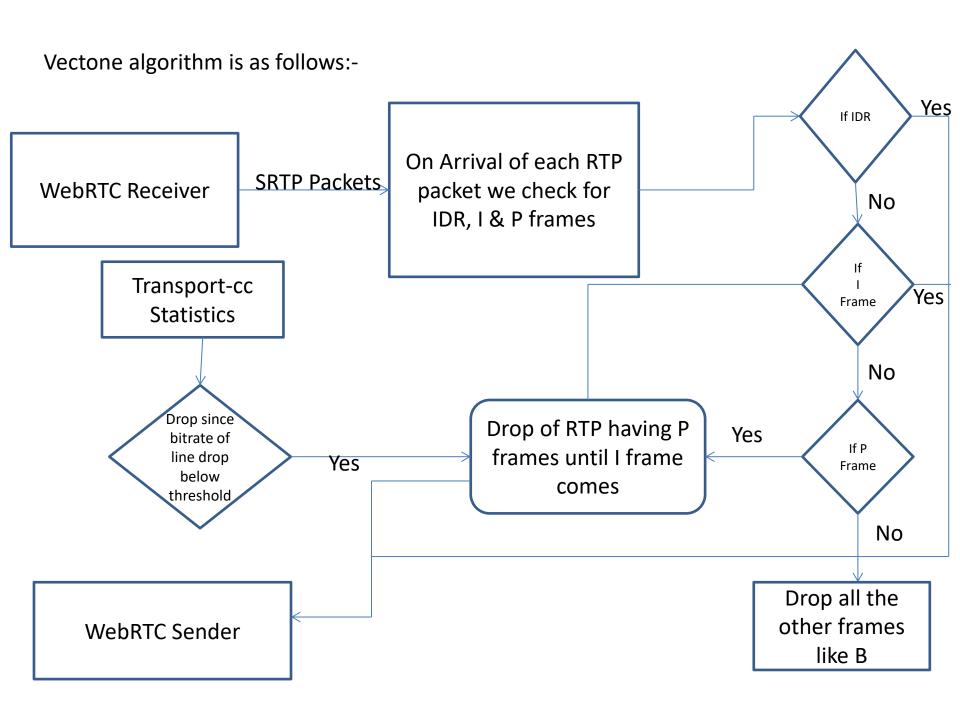
- A. Adaption of frame rate with transport-cc statistics
- B. Adaption of bit rate with transport-cc statistics, google's congestion control and bwe (Not doing it right now)
- C. Adaption of screen resolution based on simulcast (Not doing it right now)

A. Adaption of frame rate with transport-cc statistics

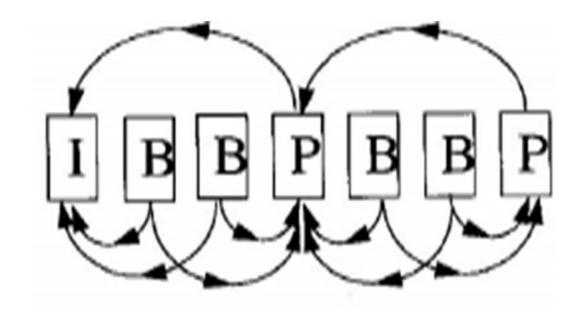
We can do it in two ways

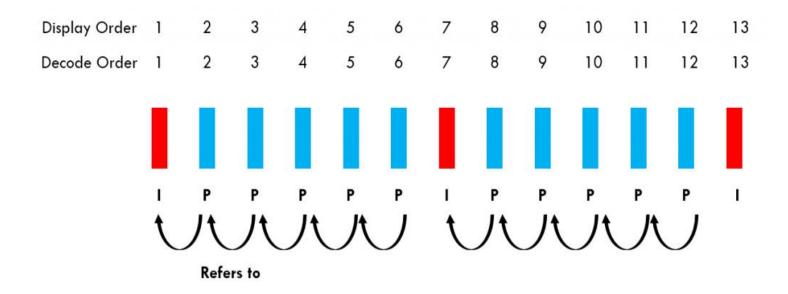
- a) Reduce the Frame rate of sender it self. But then all receiver will get frame with very low frame rate. Which is not good
- b)We will implement frame rate Adaption as shown in slide 1.

The advantage of this algorithm is if a receiver have good connectivity he will receive good frame rate even when other participants receiving lower frame rate



B frames will never comes in video calls, since we use strict base line profile H264





This is the only possible situation in video call

The P-frames refer to previously encoded I/P-frames as discussed earlier.

You can also see that the order in which the frames are encoded/decoded is the same as how they are presented to the user. This is because P-frames only refer to previously encoded pictures.

WebRTC receiver receives the RTP packets from sender

On arrival of each RTP packets we peek inside RTP to check for IDR, I and P frames without decoding frames

Only trailing P frames will be drop if the bitrate of peer connection drop below threshold

To peek inside Secured RTP we need certificates.