

# H.264 Timestamps

From RFC 3984

(Yes I know this is not the latest RFC)

# H.264 Timestamps

- Because H.264 allows the decoding order to be different from the display order, values of RTP timestamps may not be monotonically non-decreasing as a function of RTP sequence numbers.

# Decoding Order Number (DON)

- In the interleaved packetization mode, the transmission order of NAL units is allowed to differ from the decoding order of the NAL units.
- Decoding order number (DON) is a field in the payload structure or a derived variable that indicates the NAL unit decoding order.

# Example of Multi-Picture Slice Interleaving

An example of multi-picture slice interleaving follows. A subset of a coded video sequence is depicted below in output order. R denotes a reference picture, N denotes a non-reference picture, and the number indicates a relative output time.

... R1 N2 R3 N4 R5 ...

The decoding order of these pictures from left to right is as follows:

... R1 R3 N2 R5 N4 ...

The NAL units of pictures R1, R3, N2, R5, and N4 are marked with a DON equal to 1, 2, 3, 4, and 5, respectively.