## CLAIMS

What is claimed is:

1. A method implemented by a decoder, the method comprising:

receiving, by a receiver of the decoder, a bitstream comprising a plurality of pictures;

setting, by the processor, a value of a no output of prior pictures flag (NoOutputOfPriorPicsFlag) when a value of maximum picture width in luma samples (PicWidthMaxInSamplesY) for a current access unit (AU) is different from a value of PicWidthMaxInSamplesY for a preceding AU in decoding order;

emptying a decoded picture buffer (DPB) without output of contained pictures based on the value of the NoOutputOfPriorPicsFlag;

decoding, by the processor, a current picture; and

storing, by the DPB, the current picture.

2. The method of claim 1, further comprising setting, by the processor, the value of the NoOutputOfPriorPicsFlag when a value of maximum picture height in luma samples (PicHeightMaxInSamplesY) for the current AU is different from a value of PicHeightMaxInSamplesY for the preceding AU in decoding order.

3. The method of any of claims 1-2, wherein the DPB is emptied before decoding the current picture.

4. The method of any of claims 1-3, wherein the DPB is emptied after parsing a slice header of a first slice of the current picture.

5. The method of any of claims 1-4, further comprising decrementing a DPB fullness variable for each picture removed when emptying the DPB.

6. The method of any of claims 1-5, further comprising constructing, by the processor, a reference picture list and performing reference picture list marking for the current AU prior to setting the NoOutputOfPriorPicsFlag.

7. The method of any of claims 1-6, wherein the DPB is emptied when a preceding picture is marked as unused for reference.

8. A non-transitory computer-readable medium storing computer instructions that when executed by at least one hardware processors, cause the at least one hardware processors to perform the method of any one of claims 1 to 8.

9. A decoding device, comprising:

a receiver configured to receive a bitstream comprising a plurality of pictures;

a memory coupled to the receiver, the memory storing instructions; and

a processor coupled to the memory, the processor configured to execute the instructions to cause the decoding device to: perform the method according to any one of claims 1 to 8.