CLAIMS

1. A method for video data decoding, executable by a processor, comprising:

receiving encoded video data comprising pictures and a num_slices_in_pic_minus1 syntax indicating a number of rectangular slices in each of the pictures referring to a picture parameter set (PPS);

determining the number of rectangular slices based on the value of the num_slices_in_pic_minus1 syntax;

determining an access unit count based on a picture order count; and

decoding the encoded video data based on the determined number of rectangular slices in each of the pictures referring to the PPS.

2. The method of claim 1, wherein the num_slices_in_pic_minus1 syntax is set in a range of 0 to a preset value.

3. The method of claim 1, wherein the value of the num_slices_in_pic_minus1 syntax is determined to be 0 based on determining that a no_pic_partition_flag syntax is equal to 1.

4. The method of claim 1, wherein the number of rectangular slices is inferred to be one based on a flag corresponding to a picture having no partitions being set.

5. The method of claim 1, wherein the video data comprises one or more tile group headers and subpictures, and

wherein the one or more tile group headers and subpictures include at least the picture order count, wherein the one or more tile group headers further includes a set of adaptive resolution change reference information.

6. The method of claim 5, wherein the method further comprises:

receiving, in the PPS, a number of subpictures in each of the pictures and a delta value that is a difference between the number of subpictures in each of the pictures and the number of rectangular slices in each of the pictures; and

determining that a picture, slice, or tile belongs to an access unit based on at least the access unit count.

7. The method of claim 6, wherein the number of rectangular slices in a picture is derived based on the number of subpictures and the delta value.

8. The method of claim 1, wherein based on a flag corresponding to a single slice per subpicture being set, the delta value between the number of subpictures and the number of rectangular slices is inferred to be zero.

9. The method of claim 1, wherein the number of subpictures is less than the number of rectangular slices.

10. A computer system for video data decoding, the computer system comprising:

one or more computer-readable non-transitory storage media configured to store computer program code; and

one or more computer processors configured to access said computer program code and operate as instructed by said computer program code to perform the method of any one of claims 1-9.

11. A non-transitory computer readable medium having stored thereon a computer program for coding video data, the computer program configured to cause one or more computer processors to perform the method of any one of claims 1-9.