CLAIMS

1. A method for video coding, comprising:

obtaining a Sequence Parameter Set (SPS) residual coding flag that indicates whether a syntax element for a rice parameter used for a transform skip residual coding syntax structure is present in Slice Header (SH) syntax structures referring to the SPS,

wherein a value of the SPS residual coding flag being equal to 1 indicates that the syntax element is present in the SH syntax structures referring to the SPS,

wherein the value of the SPS residual coding flag being equal to 0 indicates that the syntax element is not present in the SH syntax structures referring to the SPS, and

wherein the syntax element is not present, a value of the syntax element is inferred to be equal to 0.

2. The method for video coding of claim 1, further comprising:

obtaining a Picture Parameter Set (PPS) residual coding rice flag to indicate whether an index, pps_ts_residual_coding_rice_index, is present in a current picture of the video ,

wherein a value of the PPS residual coding rice flag being equal to 1 indicates that the pps_ts_residual_coding_rice_index is present in the current picture, and

wherein the value of the PPS residual coding flag being equal to 0 indicates that the pps_ts_residual_coding_rice_index is not present in the current picture.

3. The method for video coding of claim 1, wherein a color format is 4:2:2.

4. The method for video coding of claim 1, wherein a color format is 4:4:4.

5. An apparatus for video coding, comprising:

one or more processors; and

a memory configured to store instructions executable by the one or more processors; wherein the one or more processors, upon execution of the instructions, are configured to perform operations including:

obtaining a Sequence Parameter Set (SPS) residual coding flag that indicates whether a syntax element for a rice parameter used for a transform skip residual coding syntax structure is present in Slice Header (SH) syntax structures referring to the SPS,

wherein a value of the SPS residual coding flag being equal to 1 indicates that the syntax element is present in the SH syntax structures referring to the SPS,

wherein the value of the SPS residual coding flag being equal to 0 indicates that the syntax element is not present in the SH syntax structures referring to the SPS, and

wherein the syntax element is not present, a value of the syntax element is inferred to be equal to 0.

6. The apparatus for video coding of claim 5, wherein the operations further include:

obtaining a Picture Parameter Set (PPS) residual coding rice flag to indicate whether an index, pps_ts_residual_coding_rice_index, is present in a current picture of the video ,

wherein a value of the PPS residual coding rice flag being equal to 1 indicates that the pps_ts_residual_coding_rice_index is present in the current picture, and

wherein the value of the PPS residual coding flag being equal to 0 indicates that the pps_ts_residual_coding_rice_index is not present in the current picture.

7. The apparatus for video coding of claim 5, wherein a color format is 4:2:2.

8. The apparatus for video coding of claim 5, wherein a color format is 4:4:4.

9. A computer-readable storage medium storing a bitstream formed by instructions which when executed by a computing device having one or more processors, cause the one or more processors to perform the method according to any of claims 1-2.

10. The computer-readable storage medium of claim 9, wherein a color format is 4:2:2.

11. The computer-readable storage medium of claim 9, wherein a color format is 4:4:4.

12. A computer program product comprising a plurality of programs for execution by a computing device having one or more processors, wherein the plurality of programs, when executed by the one or more processors, cause the computing device to perform the method of any of claims 1-4.

13. A computer readable storage medium storing a bitstream generated by the method according to any one of claims 1-2.

14. The computer-readable storage medium of claim 13, wherein a color format is 4:2:2.

15. The computer-readable storage medium of claim 13, wherein a color format is 4:4:4.

16. A method for storing a bitstream, comprising:

performing the method according to any one of claims 1-2 to generate a bitstream; and

storing the bitstream.

17. The method of claim 16, wherein a color format is 4:2:2.

18. The method of claim 16, wherein a color format is 4:4:4.