## Amended Set of Claims 1 to 56

1. A method of decoding video data, the method comprising:

receiving a delta quantization parameter (dQP) value for a current quantization block of video data, wherein the dQP value is received whether or not there are non-zero transform coefficients in the current quantization block, such that the dQP value is not inferred;

determining a quantization parameter (QP) value for the current quantization block based on the received dQP value and a QP Predictor; and

decoding the current quantization block using the determined QP value.

2. The method of claim 1, further comprising:

receiving a quantization group (QG) size, wherein the current quantization block comprises one or more coding units (CUs) having a size equal to or less than the QG size or a CU having a size greater than the QG size.

3. The method of claim 1, wherein the QP Predictor is an average of a QP value for an above quantization block and a left quantization block, wherein the above quantization block is located above the current quantization block and wherein the left quantization block is located to the left of the current quantization block.

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9. The method of claim 1, further comprising:

receiving a lossless flag indicating that the current quantization block was encoded using a lossless coding mode; and

decoding the current quantization block using according to the lossless coding mode.

10. The method of claim 9, further comprising:

assigning a QP value for the current quantization block to be equal to a QP Predictor in the case that the lossless flag is received for the current quantization block, wherein the QP value is used for subsequent QP prediction.

11. The method of claim 9, in the case that the current quantization block includes two or more CUs, the method further comprising:

receiving a lossless flag at each of the two or more CUs in the case that a lossless flag received at the current quantization block indicates that one or more CUs in the quantization blocks were encoded using the lossless coding mode.

12. The method of claim 1, further comprising:

decoding the dQP value using a truncated unary binarization technique without checking a sign of the dQP value.

13. A method of encoding video data, the method comprising:

determining a quantization parameter (QP) value for a current quantization block of video data;

determining a delta quantization parameter (dQP) value for the current quantization block based on the QP and a QP predictor;

generating the dQP value, wherein the dQP value is generated whether or not there are non-zero transform coefficients in the current quantization block; and

encoding the current quantization block using the determined QP value.

14. The method of claim 13, further comprising:

generating a quantization group (QG) size, wherein the current quantization block comprises one or more coding units (CUs) having a size equal to or less than the QG size or a CU having a size greater than the QG size.

15. The method of claim 13, wherein the QP Predictor is an average of a QP value for an above quantization block and a left quantization block, wherein the above quantization block is located above the current quantization block and wherein the left quantization block is located to the left of the current quantization block.

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21. The method of claim 13, further comprising:

generating a lossless flag indicating that the current quantization block was encoded using a lossless coding mode; and

encoding the current quantization block using according to the lossless coding mode.

22. The method of claim 21, further comprising:

assigning a QP value for the current quantization block to be equal to a QP Predictor in the case that the lossless flag is received for the current quantization block, wherein the QP value is used for subsequent QP prediction.

23. The method of claim 21, in the case that the current quantization block includes two or more CUs, the method further comprising:

generating a lossless flag at each of the two or more CUs in the case that a lossless flag received at the current quantization block indicates that one or more CUs in the quantization blocks were encoded using the lossless coding mode.

24. The method of claim 13, further comprising:

encoding the dQP value using a truncated unary binarization technique without checking a sign of the dQP value.

25. The method of claim 13, further comprising:

not selecting a lossless coding mode for the current quantization in the case that the current quantization block has no prediction residual and QP Predictor for the current quantization block is non-zero.

26. The method of claim 13, further comprising:

not selecting a lossless coding mode for the current quantization in the case that the current quantization block has no prediction residual and one or more quantization blocks used to determine a QP Predictor for the current quantization block are coded in a lossless coding mode.

27. An apparatus configured to decode video data, the apparatus comprising:

a video decoder configured to:

receive a delta quantization parameter (dQP) value for a current quantization block of video data, wherein the dQP value is received whether or not there are non-zero transform coefficients in the current quantization block, such that the dQP value is not inferred;

determine a quantization parameter (QP) value for the current quantization block based on the received dQP value and a QP Predictor; and

decode the current quantization block using the determined QP value.

28. The apparatus of claim 27, wherein the video decoder is further configured to:

receive a quantization group (QG) size, wherein the current quantization block comprises one or more coding units (CUs) having a size equal to or less than the QG size or a CU having a size greater than the QG size.

29. The apparatus of claim 27, wherein the QP Predictor is an average of a QP value for an above quantization block and a left quantization block, wherein the above quantization block is located above the current quantization block and wherein the left quantization block is located to the left of the current quantization block.

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35. The apparatus of claim 27, wherein the video decoder is further configured to:

receive a lossless flag indicating that the current quantization block was encoded using a lossless coding mode; and

decode the current quantization block using according to the lossless coding mode.

36. The apparatus of claim 35, wherein the video decoder is further configured to:

assign a QP value for the current quantization block to be equal to a QP Predictor in the case that the lossless flag is received for the current quantization block, wherein the QP value is used for subsequent QP prediction.

37. The apparatus of claim 35, in the case that the current quantization block includes two or more CUs, the video decoder is further configured to:

receive a lossless flag at each of the two or more CUs in the case that a lossless flag received at the current quantization block indicates that one or more CUs in the quantization blocks were encoded using the lossless coding mode.

38. The apparatus of claim 27, wherein the video decoder is further configured to:

decode the dQP value using a truncated unary binarization technique without checking a sign of the dQP value.

39. An apparatus configured to encode video data, the apparatus comprising:

a video encoder configured to:

determine a quantization parameter (QP) value for a current quantization block of video data;

determine a delta quantization parameter (dQP) value for the current quantization block based on the QP and a QP predictor;

generate the dQP value, wherein the dQP value is generated whether or not there are non-zero transform coefficients in the current quantization block; and

encode the current quantization block using the determined QP value.

40. The apparatus of claim 39, wherein the video encoder is further configured to:

generate a quantization group (QG) size, wherein the current quantization block comprises one or more coding units (CUs) having a size equal to or less than the QG size or a CU having a size greater than the QG size.

41. The apparatus of claim 39, wherein the QP Predictor is an average of a QP value for an above quantization block and a left quantization block, wherein the above quantization block is located above the current quantization block and wherein the left quantization block is located to the left of the current quantization block.

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47. The apparatus of claim 39, wherein the video encoder is further configured to:

generate a lossless flag indicating that the current quantization block was encoded using a lossless coding mode; and

encode the current quantization block using according to the lossless coding mode.

48. The apparatus of claim 47, wherein the video encoder is further configured to:

assign a QP value for the current quantization block to be equal to a QP Predictor in the case that the lossless flag is received for the current quantization block, wherein the QP value is used for subsequent QP prediction.

49. The apparatus of claim 47, in the case that the current quantization block includes two or more CUs, the video encoder is further configured to:

generate a lossless flag at each of the two or more CUs in the case that a lossless flag received at the current quantization block indicates that one or more CUs in the quantization blocks were encoded using the lossless coding mode.

50. The apparatus of claim 39, wherein the video encoder is further configured to:

encode the dQP value using a truncated unary binarization technique without checking a sign of the dQP value.

51. The apparatus of claim 39, wherein the video encoder is further configured to:

not select a lossless coding mode for the current quantization in the case that the current quantization block has no prediction residual and QP Predictor for the current quantization block is non-zero.

52. The apparatus of claim 39, wherein the video encoder is further configured to:

not select a lossless coding mode for the current quantization in the case that the current quantization block has no prediction residual and one or more quantization blocks used to determine a QP Predictor for the current quantization block are coded in a lossless coding mode.

53. An apparatus configured to decode video data, the apparatus comprising:

means for receiving a delta quantization parameter (dQP) value for a current quantization block of video data, wherein the dQP value is received whether or not there are non-zero transform coefficients in the current quantization block, such that the dQP value is not inferred;

means for determining a quantization parameter (QP) value for the current quantization block based on the received dQP value and a QP Predictor; and

means for decoding the current quantization block using the determined QP value.

54. An apparatus configured to encode video data, the apparatus comprising:

means for determining a quantization parameter (QP) value for a current quantization block of video data;

means for determining a delta quantization parameter (dQP) value for the current quantization block based on the QP and a QP predictor;

means for generating the dQP value, wherein the dQP value is generated whether or not there are non-zero transform coefficients in the current quantization block; and

means for encoding the current quantization block using the determined QP value.

55. A computer-readable storage medium storing instructions that, when executed, cause one or more processors of a device configured to decode video data to:

receive a delta quantization parameter (dQP) value for a current quantization block of video data, wherein the dQP value is received whether or not there are non-zero transform coefficients in the current quantization block, such that the dQP value is not inferred;

determine a quantization parameter (QP) value for the current quantization block based on the received dQP value and a QP Predictor; and

decode the current quantization block using the determined QP value.

56. A computer-readable storage medium storing instructions that, when executed, cause one or more processors of a device configured to encode video data to:

determine a quantization parameter (QP) value for a current quantization block of video data;

determine a delta quantization parameter (dQP) value for the current quantization block based on the QP and a QP predictor;

generate the dQP value, wherein the dQP value is generated whether or not there are non-zero transform coefficients in the current quantization block; and

encode the current quantization block using the determined QP value.

## CLAIMS

1. An invention not claimed in any divisional application.