

CLAIMS

1. A method of processing video data, comprising:
performing a conversion between a video comprising a current video block and a bitstream of the video,
wherein a property of a first syntax element specifying a number of points in a quantization parameter, QP, table associated with the conversion of the current video block is dependent on one or more other syntax elements according to a rule.
2. The method of claim 1, wherein the property comprises a value of the first syntax element, and wherein the rule specifies that the value of the first syntax element is based on a value of a second syntax element specifying a starting luma and chroma QP used to describe the QP table.
3. The method of claim 2, wherein the QP table is an i-th QP table in a number of QP tables.
4. The method of claim 2, wherein the value of the first syntax element is equal to $(K - \text{the value of the second syntax element})$, K being a positive integer.
5. The method of claim 3 or 4, wherein the second syntax is represented as `sps_qp_table_start_minus26[i]` whose value plus 26 specifying the starting luma and chroma QP used to describe the i-th QP table.
6. The method of claim 5, wherein the value of the first syntax element is equal to $(36 - \text{sps_qp_table_start_minus26}[i])$.
7. The method of any of claims 3 to 6, wherein K is equal to (a maximum allowed QP value - 1).
8. The method of claim 1, wherein the property comprises whether the first syntax element is explicitly indicated.

9. The method of claim 1, wherein the property comprises an inferred value of the first syntax element.
10. The method of claim 1, wherein the property comprises a range of values that the first syntax element is allowed to take.
11. The method of claim 10, wherein the rule specifies that a sum of a value of the first syntax and a starting luma and chroma QP is smaller than a maximum allowed QP value.
12. A method of processing video data, comprising:
performing a conversion between a video and a bitstream of the video,
wherein the bitstream conforms to a rule specifying that an input quantization parameter, QP, value and an output QP value are in a range of - QpBdOffset to K, wherein QpBdOffset specifies a value of a luma and chroma quantization parameter range offset, and K is associated with a maximum allowed QP value.
13. The method of claim 12, wherein K is equal to (the maximum allowed QP value - 1).
14. The method of claim 7, 11 or 13, wherein the maximum allowed QP value is equal to 63.
15. The method of any of claims 1 to 10, wherein the conversion comprises encoding the video into the bitstream.
16. The method of any of claims 1 to 10, wherein the conversion comprises decoding the video from the bitstream.
17. A method for storing bitstream of a video, comprising:
generating a bitstream of the video from a current video block in the video, and
storing the generated bitstream,

wherein a property of a first syntax element specifying a number of points in a quantization parameter, QP, table associated with the conversion of the current video block is dependent on one or more other syntax elements according to a rule.

18. A method for storing bitstream of a video, comprising:

generating a bitstream of the video from the video, and
storing the generated bitstream,

wherein the bitstream conforms to a rule specifying that an input quantization parameter, QP, value and an output QP value are in a range of - QpBdOffset to K, wherein QpBdOffset specifies a value of a luma and chroma quantization parameter range offset, and K is associated with a maximum allowed QP value.

19. A video decoding apparatus comprising a processor configured to implement a method recited in one or more of claims 1 to 18.

20. A video encoding apparatus comprising a processor configured to implement a method recited in one or more of claims 1 to 18.

21. A computer program product having computer code stored thereon, the code, when executed by a processor, causes the processor to implement a method recited in any of claims 1 to 18.

22. A non-transitory computer-readable recording medium storing a bitstream of a video which is generated by a method performed by a video processing apparatus, wherein the method comprises:

generating a bitstream of the video from a current video block in the video, and
storing the generated bitstream,

wherein a property of a first syntax element specifying a number of points in a quantization parameter, QP, table associated with the conversion of the current video block is dependent on one or more other syntax elements according to a rule.

23. A non-transitory computer-readable recording medium storing a bitstream of a video which is generated by a method performed by a video processing apparatus, wherein the method comprises:

- generating a bitstream of the video from the video, and
- storing the generated bitstream,

wherein the bitstream conforms to a rule specifying that an input quantization parameter, QP, value and an output QP value are in a range of - QpBdOffset to K, wherein QpBdOffset specifies a value of a luma and chroma quantization parameter range offset, and K is associated with a maximum allowed QP value.