CLAIMS

1. A method of processing video data, comprising:

determining, for a conversion between a chroma block of a video and a bitstream of the video, a chroma quantization parameter QP to control a chroma deblocking filtering process to an edge of the chroma block, wherein the chroma QP is determined based on applying chroma QP offsets to an output of a chroma QP table processing; and

performing the conversion based on the determining,

wherein applying the chroma QP offsets to the output of the chroma QP table processing comprises determining whether to enable usage of a block level chroma QP offset according to a first enable flag cu_chroma_qp_offset_enabled_flag at a slice level, wherein the first enable flag indicates whether to enable usage of block level chroma QP offsets for blocks in a slice; and

wherein the first enable flag is signaled under a condition of a block level chroma QP offset enabling flag in a picture level.

2. The method of claim 1, wherein the chroma QP offsets comprise a picture level chroma QP offset and a slice level chroma QP offset.

3. The method of any of claims 1-2, wherein the conversion includes encoding the video into the bitstream.

4. The method of any of claims 1-2, wherein the conversion includes decoding the video from the bitstream.

5. An apparatus for processing video data comprising a processor and a non-transitory memory with instructions thereon, wherein the instructions upon execution by the processor, cause the processor to:

determine, for a conversion between a chroma block of a video and a bitstream of the video, a chroma quantization parameter QP to control a chroma deblocking filtering process to an edge of the chroma block, wherein the chroma QP is determined based on applying chroma QP offsets to an output of a chroma QP table processing; and

perform the conversion based on the determining,

wherein applying the chroma QP offsets to the output of the chroma QP table processing comprises determining whether to enable usage of a block level chroma QP offset according to a first enable flag cu_chroma_qp_offset_enabled_flag at a slice level, wherein the first enable flag indicates whether to enable usage of block level chroma QP offsets for blocks in a slice; and

wherein the first enable flag is signaled under a condition of a block level chroma QP offset enabling flag in a picture level.

6. The apparatus of claim 5, wherein the chroma QP offsets comprise a picture level chroma QP offset and a slice level chroma QP offset.

7. A non-transitory computer-readable storage medium storing instructions that cause a processor to:

determine, for a conversion between a chroma block of a video and a bitstream of the video, a chroma quantization parameter QP to control a chroma deblocking filtering process to an edge of the chroma block, wherein the chroma QP is determined based on applying chroma QP offsets to an output of a chroma QP table processing; and

perform the conversion based on the determining,

wherein applying the chroma QP offsets to the output of the chroma QP table processing comprises determining whether to enable usage of a block level chroma QP offset according to a first enable flag cu_chroma_qp_offset_enabled_flag at a slice level, wherein the first enable flag indicates whether to enable usage of block level chroma QP offsets for blocks in a slice; and

wherein the first enable flag is signaled under a condition of a block level chroma QP offset enabling flag in a picture level.

8. The non-transitory computer-readable storage medium of claim 7, wherein the chroma QP offsets comprise a picture level chroma QP offset and a slice level chroma QP offset.

9. 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:

determining, for a chroma block of a video and the bitstream of the video, a chroma quantization parameter QP to control a chroma deblocking filtering process to an edge of the chroma block, wherein the chroma QP is determined based on applying chroma QP offsets to an output of a chroma QP table processing;

generating the bitstream based on the determining; and

storing the bitstream in the non-transitory computer-readable recording medium,

wherein applying the chroma QP offsets to the output of the chroma QP table processing comprises determining whether to enable usage of a block level chroma QP offset according to a first enable flag cu_chroma_qp_offset_enabled_flag at a slice level, wherein the first enable flag indicates whether to enable usage of block level chroma QP offsets for blocks in a slice; and

wherein the first enable flag is signaled under a condition of a block level chroma QP offset enabling flag in a picture level.

10. The non-transitory computer-readable recording medium of claim 9, wherein the chroma QP offsets comprise a picture level chroma QP offset and a slice level chroma QP offset.