CLAIMS

1. A method of processing video data, comprising:

determining, for a conversion between a current video block of a video and a bitstream of the video, whether a partitioning scheme is allowed for the current video block according to a rule that depends on a mode type of the current video block and a dimension of the current video block; and

performing the conversion based on the determining.

2. The method of claim 1, wherein the partitioning scheme comprises:

a QT (quaternary tree) split in which the current video block is split into four parts in both horizontal and vertical directions,

a vertical TT (ternary tree) split in which the current video block is split into three parts in a vertical direction,

a horizontal TT split in which the current video block is split into three parts in a horizontal direction,

a vertical BT (binary tree) split in which the current video block is split into two parts in a vertical direction, or

a horizontal BT split in which the current video block is split into two parts in a horizontal direction.

3. The method of claim 1 or 2, wherein the dimension of the current video block comprises a height or a width of the current video block.

4. The method of any one of claims 1-3, wherein the rule specifies that a QT split is disallowed for the current video block in case 1) that the mode type of the current video block is MODE_TYPE_INTER in which inter coding modes only are allowed for the current video block and 2) that both of a width and a height of the current video block are 8.

5. The method of any one of claims 1-3, wherein the rule specifies that a TT (ternary tree) split is disallowed for the current video block in case 1) that the mode type of the current video block is MODE_TYPE_INTER in which inter coding modes only are allowed for the current video block and 2) that a multiplication of a width and a height of the current video block is 64.

6. The method of claim 5, wherein the rule specifies that a vertical TT split is disallowed for the current video block when the width of the current video block is equal to 16, and the height of the current video block is equal to 4.

7. The method of claim 5, wherein the rule specifies that a horizontal TT split is disallowed for the current video block when the width of the current video block is equal to 4, and the height of the current video block is equal to 16.

8. The method of any one of claims 1-3, wherein the rule specifies that a BT (binary tree) split is disallowed for the current video block in case 1) that the mode type of the current video block is MODE_TYPE_INTER in which inter coding modes only are allowed for the current video block and 2) that a multiplication of a width and a height of the current video block is 32.

9. The method of claim 8, wherein the rule specifies that a vertical BT split is disallowed for the current video block when the width of the current video block is equal to 8, and the height of the current video block is equal to 4.

10. The method of claim 8, wherein the rule specifies that a horizontal BT split is disallowed for the current video block when the width of the current video block is equal to 4, and the height of the current video block is equal to 8.

11. The method of any one of claims 1-10, wherein the conversion comprises encoding the current video block into the bitstream.

12. The method of any one of claims 1-10, wherein the conversion comprises decoding the current video block from the bitstream.

13. 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 current video block of a video and a bitstream of the video, whether a partitioning scheme is allowed for the current video block according to a rule that depends on a mode type of the current video block and a dimension of the current video block; and

perform the conversion based on the determining.

14. The apparatus of claim 13, wherein the rule specifies that a QT split is disallowed for the current video block in case 1) that the mode type of the current video block is MODE_TYPE_INTER in which inter coding modes only are allowed for the current video block and 2) that both of a width and a height of the current video block are 8.

15. The apparatus of claim 13, wherein the rule specifies that a TT (ternary tree) split is disallowed for the current video block in case 1) that the mode type of the current video block is MODE_TYPE_INTER in which inter coding modes only are allowed for the current video block and 2) that a multiplication of a width and a height of the current video block is 64.

16. The apparatus of claim 13, wherein the rule specifies that a BT (binary tree) split is disallowed for the current video block in case 1) that the mode type of the current video block is MODE_TYPE_INTER in which inter coding modes only are allowed for the current video block and 2) that a multiplication of a width and a height of the current video block is 32.

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

determine, for a conversion between a current video block of a video and a bitstream of the video, whether a partitioning scheme is allowed for the current video block according to a rule that depends on a mode type of the current video block and a dimension of the current video block; and

perform the conversion based on the determining.

18. The non-transitory computer-readable storage medium of claim 17, wherein

the rule specifies that a QT split is disallowed for the current video block in case 1) that the mode type of the current video block is MODE_TYPE_INTER in which inter coding modes only are allowed for the current video block and 2) that both of a width and a height of the current video block are 8;

the rule specifies that a TT (ternary tree) split is disallowed for the current video block in case 1) that the mode type of the current video block is MODE_TYPE_INTER in which inter coding modes only are allowed for the current video block and 2) that a multiplication of a width and a height of the current video block is 64; or

the rule specifies that a BT (binary tree) split is disallowed for the current video block in case 1) that the mode type of the current video block is MODE_TYPE_INTER in which inter coding modes only are allowed for the current video block and 2) that a multiplication of a width and a height of the current video block is 32.

19. 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 current video block of a video, whether a partitioning scheme is allowed for the current video block according to a rule that depends on a mode type of the current video block and a dimension of the current video block; and

generating the bitstream based on the determining.

20. The non-transitory computer-readable recording medium of claim 19, wherein

the rule specifies that a QT split is disallowed for the current video block in case 1) that the mode type of the current video block is MODE_TYPE_INTER in which inter coding modes only

are allowed for the current video block and 2) that both of a width and a height of the current video block are 8;

the rule specifies that a TT (ternary tree) split is disallowed for the current video block in case 1) that the mode type of the current video block is MODE_TYPE_INTER in which inter coding modes only are allowed for the current video block and 2) that a multiplication of a width and a height of the current video block is 64; or

the rule specifies that a BT (binary tree) split is disallowed for the current video block in case 1) that the mode type of the current video block is MODE_TYPE_INTER in which inter coding modes only are allowed for the current video block and 2) that a multiplication of a width and a height of the current video block is 32.