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;

wherein the rule specifies that a quaternary 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 both of a width and a height of the current video block are 8,

wherein the rule specifies that a 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

wherein the rule specifies that a 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.

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

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

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

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

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

a horizontal binary tree 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 vertical TT split is disallowed for the current video block when a width of the current video block is equal to 16, and a height of the current video block is equal to 4, and 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.

5. The method of any one of claims 1-3, wherein the rule specifies that a horizontal TT split is disallowed for the current video block when a width of the current video block is equal to 4, and a height of the current video block is equal to 16, and 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.

6. The method of any one of claims 1-3, wherein the rule specifies that a vertical BT split is disallowed for the current video block when a width of the current video block is equal to 8, and a height of the current video block is equal to 4, and 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.

7. The method of any one of claims 1-3, wherein the rule specifies that a horizontal BT split is disallowed for the current video block when a width of the current video block is equal to 4, and a height of the current video block is equal to 8, and 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.

8. The method of any one of claims 1-7, wherein the conversion comprises encoding the current video block into the bitstream.

9. The method of any one of claims 1-7, wherein the conversion comprises decoding the current video block from the bitstream.

10. 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;

wherein the rule specifies that a quaternary 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 both of a width and a height of the current video block are 8,

wherein the rule specifies that a 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

wherein the rule specifies that a 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.

11. 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;

wherein the rule specifies that a quaternary 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 both of a width and a height of the current video block are 8,

wherein the rule specifies that a 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

wherein the rule specifies that a 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.

12. 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;

wherein the rule specifies that a quaternary 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 both of a width and a height of the current video block are 8,

wherein the rule specifies that a 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

wherein the rule specifies that a 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.