

WHAT IS CLAIMED IS:

1. A method of decoding video data, the method comprising:
 - determining, by one or more processors implemented in circuitry, a picture size of a picture according to a picture size restriction comprising determining a width of the picture and a height of the picture to each be a respective multiple of a maximum of 8 and a minimum coding unit size for the picture;
 - determining, by the one or more processors, a partition of the picture into a plurality of blocks;
 - generating, by the one or more processors, a prediction block for a block of the plurality of blocks;
 - decoding, by the one or more processors, a residual block for the block; and
 - combining, by the one or more processors, the prediction block and the residual block to decode the block.
2. The method of claim 1, wherein the minimum coding unit size comprises a minimum width of a coding unit for the picture or a minimum height of the coding unit for the picture.
3. The method of claim 1, wherein determining the partition comprises determining that a chroma block at a bottom-right corner of the picture comprises a size of at least 4x4.
4. The method of claim 1, wherein determining the partition comprises determining that a luma block at a bottom-right corner of the picture comprises a size of at least 8x8.
5. The method of claim 1,
 - wherein the picture size applies the picture size restriction to set the width of the picture to comprise a first number of luma samples that is a first multiple of the maximum of 8 and the minimum coding unit size for the picture; and
 - wherein the picture size applies the picture size restriction to set the height of the picture to comprise a second number of luma samples that is a second multiple of the maximum of 8 and the minimum coding unit size for the picture.

6. The method of claim 1, wherein the block is included in a slice of the picture.
7. A method of encoding video data, the method comprising:
 - setting, by one or more processors implemented in circuitry, a picture size of a picture, wherein setting the picture size comprises applying a picture size restriction to set a width of the picture and a height of the picture to each be a respective multiple of a maximum of 8 and a minimum coding unit size for the picture;
 - partitioning, by one or more processors implemented in circuitry, the picture into a plurality of blocks;
 - generating, by the one or more processors, a prediction block for a block of the plurality of blocks;
 - generating, by the one or more processors, a residual block for the block based on differences between the block and the prediction block; and
 - encoding, by the one or more processors, the residual block.
8. The method of claim 7, wherein the minimum coding unit size comprises a minimum width of a coding unit for the picture or a minimum height of the coding unit for the picture.
9. The method of claim 7, wherein partitioning comprises determining that a chroma block at a bottom-right corner of the picture comprises a size of at least 4x4.
10. The method of claim 7, wherein partitioning comprises determining that a luma block at a bottom-right corner of the picture comprises a size of at least 8x8.
11. The method of claim 7, wherein setting the picture size comprises:
 - setting the width of the picture to comprise a first number of luma samples that is a first multiple of the maximum of 8 and the minimum coding unit size for the picture; and
 - setting the height of the picture to comprise a second number of luma samples that is a second multiple of the maximum of 8 and the minimum coding unit size for the picture.
12. The method of claim 7, wherein the block is included in a slice of the picture.

13. A device for decoding video data, the device comprising one or more processors implemented in circuitry and configured to:

determine a picture size of a picture according to a picture size restriction so as to determine a width of the picture and a height of the picture to each be a respective multiple of a maximum of 8 and a minimum coding unit size for the picture;

determine a partition of the picture into a plurality of blocks;

generate a prediction block for a block of the plurality of blocks;

decode a residual block for the block; and

combine the prediction block and the residual block to decode the block.

14. The device of claim 13, wherein the minimum coding unit size comprises a minimum width of a coding unit for the picture or a minimum height of the coding unit for the picture.

15. The device of claim 13, wherein, to determine the partition, the one or more processors are configured to determine that a chroma block at a bottom-right corner of the picture comprises a size of at least 4x4.

16. The device of claim 13, wherein, to determine the partition, the one or more processors are configured to determine that a luma block at a bottom-right corner of the picture comprises a size of at least 8x8.

17. The device of claim 13,
wherein the picture size applies the picture size restriction to set the width of the picture to comprise a first number of luma samples that is a first multiple of the maximum of 8 and the minimum coding unit size for the picture; and
wherein the picture size applies the picture size restriction to set the height of the picture to comprise a second number of luma samples that is a second multiple of the maximum of 8 and the minimum coding unit size for the picture.

18. The device of claim 13, wherein the block is included in a slice of the picture.

19. The device of claim 13, further comprising a display configured to display the picture.

20. The device of claim 13, wherein the device comprises one or more of a camera, a computer, a mobile device, a broadcast receiver device, or a set-top box.

21. A device for encoding video data, the device comprising one or more processors implemented in circuitry and configured to:

- set a picture size of a picture, wherein, to set the picture size, the one or more processors are configured to apply a picture size restriction to set a width of the picture and a height of the picture to each be a respective multiple of a maximum of 8 and a minimum coding unit size for the picture;

- partition the picture into a plurality of blocks;

- generate a prediction block for a block of the plurality of blocks;

- generate a residual block for the block based on differences between the block and the prediction block; and

- encode the residual block.

22. The device of claim 21, wherein the minimum coding unit size comprises a minimum width of a coding unit for the picture or a minimum height of the coding unit for the picture.

23. The device of claim 21, wherein, to partition, the one or more processors are configured to determine that a chroma block at a bottom-right corner of the picture comprises a size of at least 4x4.

24. The device of claim 21, wherein, to partition, the one or more processors are configured to determine that a luma block at a bottom-right corner of the picture comprises a size of at least 8x8.

25. The device of claim 21, wherein, to set the picture size, the one or more processors are configured to:

set the width of the picture to comprise a first number of luma samples that is a first multiple of the maximum of 8 and the minimum coding unit size for the picture;
and

set the height of the picture to comprise a second number of luma samples that is a second multiple of the maximum of 8 and the minimum coding unit size for the picture.

26. The device of claim 21, wherein the block is included in a slice of the picture.

27. An apparatus for decoding video data, the apparatus comprising:

means for determining a picture size of a picture, wherein the picture size applies a picture size restriction to set a width of the picture and a height of the picture to each be a respective multiple of a maximum of 8 and a minimum coding unit size for the picture;

means for determining a partition of the picture into a plurality of blocks;

means for generating a prediction block for a block of the plurality of blocks;

means for decoding a residual block for the block; and

means for combining the prediction block and the residual block to decode the block.

28. An apparatus for encoding video data, the apparatus comprising:

means for setting a picture size of a picture, wherein the means for setting the picture size comprises means for applying a picture size restriction to set a width of the picture and a height of the picture to each be a respective multiple of a maximum of 8 and a minimum coding unit size for the picture;

means for partitioning the picture into a plurality of blocks;

means for generating a prediction block for a block of the plurality of blocks;

means for generating a residual block for the block based on differences between the block and the prediction block; and

means for encoding the residual block.

29. A computer-readable storage medium having stored thereon instructions that, when executed, cause one or more processors to:

- determine a picture size of a picture, wherein the picture size applies a picture size restriction to set a width of the picture and a height of the picture to each be a respective multiple of a maximum of 8 and a minimum coding unit size for the picture;
- determine a partition of the picture into a plurality of blocks;
- generate a prediction block for a block of the plurality of blocks;
- decode a residual block for the block; and
- combine the prediction block and the residual block to decode the block.

30. A computer-readable storage medium having stored thereon instructions that, when executed, cause one or more processors to:

- set a picture size of a picture, wherein, to set the picture size, the instructions cause the one or more processors to apply a picture size restriction to set a width of the picture and a height of the picture to each be a respective multiple of a maximum of 8 and a minimum coding unit size for the picture;
- partition the picture into a plurality of blocks;
- generate a prediction block for a block of the plurality of blocks;
- generate a residual block for the block based on differences between the block and the prediction block; and
- encode the residual block.