Clean Version

Amended Set of Claims 1 to 47

1. A method of coding video data, the method comprising:

determining a block size associated with a current block of video data, the block size determined from a plurality of block sizes including a 4x4 block size, an 8x8 block size, a 16x16 block size, and a 32x32 block size;

determining an intra-prediction coding mode associated with the current block of video data, the intra-prediction coding mode determined from a plurality of intra-prediction coding modes including a horizontal mode, a vertical mode, a planar mode, a plurality of diagonal modes, including an upper-left diagonal mode, and upper right diagonal mode, a down-left diagonal mode, and a DC mode, and wherein the plurality of diagonal modes include a plurality of modes that are directly adjacent to the horizontal mode or the vertical mode;

selecting a filter from a filter table to apply to the current block based on the block size and the coding mode, wherein based on the selection, no filtering is applied for the 4x4 block size, only the planar mode, the upper-left diagonal modes, the upper-right diagonal mode and the down-left diagonal mode are filtered for the 8x8 block size, the planar mode is filtered and all prediction modes except for the horizontal mode, the vertical mode, the DC mode, and the modes directly adjacent to the horizontal mode or vertical mode for the 16x16 block size, and the planar mode is filtered and all prediction modes except for the horizontal mode, the vertical mode, and the DC mode for the 32x32 block size; and

intra-predictive coding the current block, wherein intra-predictive coding the current block comprises using the selected filter to filter the pixels used to predict the current block.

2. The method of claim 1, wherein selecting the filter comprises selecting from a first filter table a filter corresponding to the block size and the coding mode.

3. The method of claim 1, wherein selecting the filter comprises:

selecting from a first filter table a filter corresponding to the block size and the coding mode, when the block size is smaller than a threshold block size; and

determining whether to select a filter corresponding to the block size and the coding mode from the first filter table or a second filter table, when the block size is equal to or greater than a threshold block size.

4. The method of claim 3, wherein determining whether to select a filter from the first filter table or the second filter table comprises:

using the selected filter to filter the prediction samples;

using the selected filter to filter the prediction samples;

evaluating a first result of the application of the filter from the first filter table and a second result of the application of the filter from the second filter table to determine which yields better results; and

selecting the filter from the first filter table or the second filter table based on the determination.

5. The method of claim 4, further comprising encoding a filtering indication when the selected filter is selected from the second filter table.

6. The method of claim 1, wherein coding the current block comprises decoding the current block, wherein the current block comprises a block of video data encoded using intra-predictive coding, the method further comprising:

determining whether the encoded current block includes a filtering indication,

wherein selecting the filter comprises selecting from a first filter table a filter corresponding to the block size and the coding mode, when the encoded current block does not include a filtering indication, and wherein selecting the filter comprising selecting from a second filter table a filter corresponding to the block size and the coding mode, when the encoded current block includes a filtering indication.

7. The method of claim 1, wherein the filter table comprises entries corresponding to different combinations of block sizes and coding modes, and wherein each of the entries comprises a filter selected from a set of filters.

8. The method of claim 7, wherein the set of filters comprises at least two filters, and wherein one of the filters comprises an all-pass filter.

9. The method of claim 1, further comprising:

determining whether to apply filtering to the current block based on the block size and the coding mode using a filtering decision table; and

selecting the filter from the filter table if filtering is to be applied to the current block.

10. The method of claim 1, wherein the current block comprises a prediction unit coded according to Short-Distance Intra Prediction (SDIP).

11. The method of claim 10, further comprising:

determining a dimension associated with the current block; and

determining the block size based on the dimension using a set of dimension-determination rules.

12. An apparatus for coding video data, the apparatus comprising:

a processor configured to determine a block size associated with a current block of video data, the block size determined from a plurality of block sizes including a 4x4 block size, an 8x8 block size, a 16x16 block size, and a 32x32 block size, determine an intra-prediction coding mode associated with the current block of video data, the intra-prediction coding mode determined from a plurality of intra-prediction coding modes including a horizontal mode, a vertical mode, a planar mode, a plurality of diagonal modes, including an upper-left diagonal mode, and upper right diagonal mode, a down-left diagonal mode, and a DC mode, and wherein the plurality of diagonal modes include a plurality of modes that are directly adjacent to the horizontal mode or the vertical mode, select a filter from a filter table to apply to the current block based on the block size and the coding mode, wherein based on the selection, no filtering is applied for the 4x4 block size, only the planar mode, the upper-left diagonal modes, the upper-right diagonal mode and the down-left diagonal mode are filtered for the 8x8 block size, the planar mode is filtered and all prediction modes except for the horizontal mode, and the vertical mode, the DC mode, and the modes directly adjacent to the horizontal mode or vertical mode for the 16x16 block size, and the planar mode is filtered and all prediction modes except for the horizontal mode, the vertical mode, and the DC mode for the 32x32 block size and intra-predictive code the current block, wherein intra-

predictive coding the current block comprises using the selected filter to filter the pixels used to predict the current block.

13. The apparatus of claim 12, wherein to select the filter, the processor is configured to select from a first filter table a filter corresponding to the block size and the encoding mode.

14. The apparatus of claim 12, wherein to select the filter, the processor is further configured to:

select from a first filter table a filter corresponding to the block size and the coding mode, when the block size is smaller than a threshold block size; and

determine whether to select a filter corresponding to the block size and the coding mode from the first filter table or a second filter table, when the block size is equal to or greater than a threshold block size.

15. The apparatus of claim 14, wherein to determine whether to select a filter from the first filter table or the second filter table, the processor is further configured to:

using the selected filter to filter the prediction samples;

using the selected filter to filter the prediction samples;

evaluate a first result of the application of the filter from the first filter table and a second result of the application of the filter from the second filter table to determine which yields better results; and

select the filter from the first filter table or the second filter table based on the determination.

16. The apparatus of claim 15, wherein the processor is further configured to encode a filtering indication when the selected filter is selected from the second filter table.

17. The apparatus of claim 14 further comprising a memory configured to store the first filter table and the second filter table.

18. The apparatus of claim 12, wherein the apparatus comprises a video decoder, wherein the current block comprises a block of video data encoded using intra-predictive coding, the processor is further configured to:

determine whether the encoded current block includes a filtering indication,

wherein to select the filter the processor is further configured to select from a first filter table a filter corresponding to the block size and the coding mode, when the encoded current block does not include a filtering indication, and wherein to select the filter the processor is further configured to select from a second filter table a filter corresponding to the block size and the coding mode, when the encoded current block includes a filtering indication.

19. The apparatus of claim 12, wherein the filter table comprises entries corresponding to different combinations of block sizes and coding modes, and wherein each of the entries comprises a filter selected from a set of filters.

20. The apparatus of claim 19, wherein the set of filters comprises at least two filters, and wherein one of the filters comprises an all-pass filter.

21. The apparatus of claim 12, wherein the processor is further configured to:

determine whether to apply filtering to the current block based on the block size and the coding mode using a filtering decision table; and

select the filter from the filter table if filtering is to be applied to the current block.

22. The apparatus of claim 12, wherein the current block comprises a prediction unit coded according to Short-Distance Intra Prediction (SDIP).

23. The apparatus of claim 22, wherein the processor is further configured to:

determine a dimension associated with the current block; and

determine the block size based on the dimension using a set of dimension-determination rules.

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

means for determining a block size associated with a current block of video data, the block size determined from a plurality of block sizes including a 4x4 block size, an 8x8 block size, a 16x16 block size, and a 32x32 block size;

means for determining an intra-prediction coding mode associated with the current block of video data, the intra-prediction coding mode determined from a plurality of intra-prediction coding modes including a horizontal mode, a vertical mode, a planar mode, a plurality of diagonal modes, including an upper-left diagonal mode, and upper right diagonal mode, a down-left diagonal mode, and a DC mode, and wherein the plurality of diagonal modes include a plurality of modes that are directly adjacent to the horizontal mode or the vertical mode;

means for selecting a filter from a filter table to apply to the current block based on the block size and the coding mode, wherein based on the selection, no filtering is applied for the 4x4 block size, only the planar mode, the upper-left diagonal modes, the upper-right diagonal mode and the down-left diagonal mode are filtered for the 8x8 block size, the planar mode is filtered and all prediction modes except for the horizontal mode, the vertical mode, the DC mode, and the modes directly adjacent to the horizontal mode or vertical mode for the 16x16 block size, and the planar mode is filtered and all prediction modes except for the horizontal mode, the vertical mode, and the DC mode for the 32x32 block size; and

means for intra-predictive coding the current block, wherein intra-predictive coding the current block comprises using the selected filter to filter the pixels used to predict the current block.

25. The apparatus of claim 24, wherein the means for selecting the filter comprises means for selecting from a first filter table a filter corresponding to the block size and the coding mode.

26. The apparatus of claim 24, wherein the means for selecting the filter comprises:

means for selecting from a first filter table a filter corresponding to the block size and the coding mode, when the block size is smaller than a threshold block size; and

means for determining whether to select a filter corresponding to the block size and the coding mode from the first filter table or a second filter table, when the block size is equal to or greater than a threshold block size.

27. The apparatus of claim 24, wherein the means for selecting the filter comprises:

means for selecting from a first filter table a filter corresponding to the block size and the coding mode, when the block size is smaller than a threshold block size; and

means for determining whether to select a filter corresponding to the block size and the coding mode from the first filter table or a second filter table, when the block size is equal to or greater than a threshold block size.

28. The apparatus of claim 27, wherein the means for determining whether to select a filter from the first filter table or the second filter table comprises:

means for using the selected filter to filter the prediction samples;

means for using the selected filter to filter the prediction samples;

means for evaluating a first result of the application of the filter from the first filter table and a second result of the application of the filter from the second filter table to determine which yields better results; and

means for selecting the filter from the first filter table or the second filter table based on the determination.

29. The apparatus of claim 28, further comprising means for encoding a filtering indication when the selected filter is selected from the second filter table.

30. The apparatus of claim 27, further comprising means for storing the first filter table and the second filter table.

31. The apparatus of claim 24, wherein the apparatus comprises a video decoder, wherein the current block comprises a block of video data encoded using intra-predictive coding, the apparatus further comprising:

means for determining whether the encoded current block includes a filtering indication,

wherein the means for selecting the filter the processor comprises means for selecting from a first filter table a filter corresponding to the block size and the coding mode, when the encoded current block does not include a filtering indication, and wherein the means for selecting the filter the processor comprises means for selecting from a second filter table a filter corresponding to the block size and the coding mode, when the encoded current block includes a filtering indication.

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32. The apparatus of claim 24, wherein the filter table comprises entries corresponding to different combinations of block sizes and coding modes, and wherein each of the entries comprises a filter selected from a set of filters.

33. The apparatus of claim 32, wherein the set of filters comprises at least two filters, and wherein one of the filters comprises an all-pass filter.

34. The apparatus of claim 24, further comprising:

means for determining whether to apply filtering to the current block based on the block size and the coding mode using a filtering decision table; and

means for selecting the filter from the filter table if filtering is to be applied to the current block.

35. The apparatus of claim 24, wherein the current block comprises a prediction unit coded according to Short-Distance Intra Prediction (SDIP).

36. The apparatus of claim 35, further comprising:

means for determining a dimension associated with the current block; and

means for determining the block size based on the dimension using a set of dimension-determination rules.

37. A computer-readable storage medium comprising instructions for coding video data that, upon execution in a processor, cause the processor to:

determine a block size associated with a current block of video data, the block size determined from a plurality of block sizes including a 4x4 block size, an 8x8 block size, a 16x16 block size, and a 32x32 block size;

determine an intra-prediction coding mode associated with the current block of video data, the intra-prediction coding mode determined from a plurality of intra-prediction coding modes including a horizontal mode, a vertical mode, a planar mode, a plurality of diagonal modes, including an upper-left diagonal mode, and upper right diagonal mode, a down-left diagonal mode, and a DC mode, and wherein the plurality of diagonal modes include a plurality of modes that are directly adjacent to the horizontal mode or the vertical mode;

select a filter from a filter table to apply to the current block based on the block size and the coding mode, wherein based on the selection, no filtering is applied for the 4x4 block size, only the planar mode, the upper-left diagonal modes, the upper-right diagonal mode and the down-left diagonal mode are filtered for the 8x8 block size, the planar mode is filtered and all prediction modes except for the horizontal mode, the vertical mode, the DC mode, and the modes directly adjacent to the horizontal mode or vertical mode for the 16x16 block size, and the planar mode is filtered and all prediction modes except for the horizontal mode, the vertical mode, and the DC mode for the 32x32 block size; and

intra-predictive code the current block, wherein intra-predictive coding the current block comprises using the selected filter to filter the pixels used to predict the current block.

38. The computer-readable storage medium of claim 37, wherein the instructions that cause the processor to select the filter comprise instructions that cause the processor to select from a first filter table a filter corresponding to the block size and the coding mode.

39. The computer-readable storage medium of claim 37, wherein the instructions that cause the processor to select the filter comprise instructions that cause the processor to:

select from a first filter table a filter corresponding to the block size and the coding mode, when the block size is smaller than a threshold block size; and

determine whether to select a filter corresponding to the block size and the coding mode from the first filter table or a second filter table, when the block size is equal to or greater than a threshold block size.

40. The computer-readable storage medium of claim 39, wherein the instructions that cause the processor to determine whether to select a filter from the first filter table or the second filter table comprise instructions that cause the processor to:

use the selected filter to filter the prediction samples;

using the selected filter to filter the prediction samples;

evaluate a first result of the application of the filter from the first filter table and a second result of the application of the filter from the second filter table to determine which yields better results; and

select the filter from the first filter table or the second filter table based on the determination.

41. The computer-readable storage medium of claim 40, further comprising instructions that cause the processor to encode a filtering indication when the selected filter is selected from the second filter table.

42. The computer-readable storage of claim 37, wherein the instructions cause the processor to decode the current block, wherein the current block comprises a block of video data encoded using intra-predictive coding, further comprising instructions that cause the processor to:

determine whether the encoded current block includes a filtering indication,

wherein the instruction to select the filter comprise instruction to select from a first filter table a filter corresponding to the block size and the coding mode, when the encoded current block does not include a filtering indication, and wherein instruction to select the filter comprise instruction to select from a second filter table a filter corresponding to the block size and the coding mode, when the encoded current block includes a filtering indication.

43. The computer-readable storage medium of claim 37, wherein the filter table comprises entries corresponding to different combinations of block sizes and coding modes, and wherein each of the entries comprises a filter selected from a set of filters.

44. The computer-readable storage medium of claim 43, wherein the set of filters comprises at least two filters, and wherein one of the filters comprises an all-pass filter.

45. The computer-readable storage medium of claim 37, further comprising instructions that cause the processor to:

determine whether to apply filtering to the current block based on the block size and the coding mode using a filtering decision table; and

select the filter from the filter table if filtering is to be applied to the current block.

46. The computer-readable storage medium of claim 37, wherein the current block comprises a prediction unit coded according to Short-Distance Intra Prediction (SDIP).

47. The computer-readable storage medium of claim 46, further comprising instructions that cause the processor to:

determine a dimension associated with the current block; and

determine the block size based on the dimension using a set of dimension-determination rules.

CLAIMS

1. A method of coding video data, the method comprising:
determining a block size associated with a current block of video data, the block size determined from a plurality of block sizes including a 4×4 block size, an 8×8 block size, a 16×16 block size, and a 32×32 block size;
determining an intra-prediction coding mode associated with the current block of video data, the intra-prediction coding mode determined from a plurality of intra-prediction coding modes including a horizontal mode, a vertical mode, a planar mode, a DC mode, and a plurality of diagonal modes, including an upper-left diagonal mode, an upper right diagonal mode, a down-left diagonal mode and wherein the plurality of diagonal modes include a plurality of modes that are directly adjacent to the horizontal mode or the vertical mode;
determining based on the block size and intra-prediction coding mode a filtering decision for whether to apply a filter to prediction samples used to predict the current block, the determining comprising:
if the block size is the 4×4 block size, determining the filter decision to be that no filtering is to be applied to prediction samples used to predict the current block for any of the plurality of intra-prediction coding modes,

if the block size is the 8×8 block size, determining the filter decision to be that prediction samples used to predict the current block to be are filtered only if the coding mode is the planar mode, the upper-left diagonal mode, the upper-right diagonal mode and the down-left diagonal mode,

if the block size is the 16×16 block size, determining the filter decision to be that prediction samples used to predict the current block are to be filtered if the coding mode is the planar mode, or if the coding mode is any other of the plurality of intra-prediction coding modes except for the horizontal mode, the vertical mode, the DC mode, and the modes directly adjacent to the horizontal mode or vertical mode, or

if the block size is the 32×32 block size, determining the filter decision to be that prediction samples used to predict the current block are to be filtered if the coding mode is the planar mode, or if the coding mode is any other of the plurality of the plurality of prediction coding modes except for the horizontal mode, the vertical mode, and the DC mode; and

intra-predictive coding the current block, wherein intra-predictive coding the current block comprises using the determined filtering decision to either filter or not filter the pixels used to predict the current block.

2. The method of claim **1**, wherein determining the filtering decision comprises selecting from a first filtering decision table based on the block size and the coding mode.

3. The method of claim **1**, wherein determining the filtering decision comprises:

selecting from a first table based on the block size and the coding mode, when the block size is smaller than a threshold block size; and

determining whether to select from the first table or a second table based on the block size and the coding mode, when the block size is equal to or greater than a threshold block size.

4. The method of claim **3**, further comprising:

selecting a filter decision from a first filter table or a second filter table;

using the selected filter decision to filter the pixels used to predict the current block;

evaluating a first result of the application of the filter from the first filter table and a second result of the application of the filter from the second filter table to determine which yields better results; and

selecting the filtering decision from the first filter table or the second filter table based on the determination.

5. The method of claim **4**, further comprising encoding a filtering indication when the selected filter is selected from the second filter table.

6. The method of claim **4**, wherein the first filter table and the second filter table each comprise entries corresponding to different combinations of block sizes and coding modes, and wherein each of the entries comprises a filter selected from a set of filters.

7. The method of claim **6**, wherein the set of filters comprises at least two filters, and wherein one of the filters comprises an all-pass filter.

8. The method of claim **1**, wherein intra-predictive coding the current block comprises intra-predictive decoding the current block, wherein the current block comprises a block of video data encoded using intra-predictive coding, the method further comprising:

determining whether the encoded current block includes a filtering indication,

wherein determining the filter decision comprises determining the filter decision based on the block size, the coding mode, and the encoded filtering indication.

9. The method of claim **1**, wherein the current block comprises a prediction unit coded according to Short-Distance Intra Prediction (SDIP).

10. The method of claim **9**, further comprising:

determining a dimension associated with the current block; and

determining the block size based on the dimension using a set of dimension-determination rules.

11. An apparatus for coding video data, the apparatus comprising:

a memory configured to store video data; and

a processor configured to:

determine a block size associated with a current block of video data, the block size determined from a plurality of block sizes including a 4×4 block size, an 8×8 block size, a 16×16 block size, and a 32×32 block size,

determine an intra-prediction coding mode associated with the current block of video data, the intra-prediction coding mode determined from a plurality of intra-prediction coding modes including a horizontal mode, a vertical mode, a planar mode, a DC mode, and a plurality of diagonal modes, including an upper-left diagonal mode, an upper right diagonal mode, a down-left diagonal mode and wherein the plurality of

diagonal modes include a plurality of modes that are directly adjacent to the horizontal mode or the vertical mode,

determine based on the block size and intra-prediction coding mode a filtering decision for whether to apply a filter to prediction samples used to predict the current block, to determine the processor is further configured to:

if the block size is the 4×4 block size, determine the filter decision to be that no filtering is to be applied to prediction samples used to predict the current block for any of the plurality of intra-prediction coding modes,

if the block size is the 8×8 block size, determine the filter decision to be that prediction samples used to predict the current block to be are filtered only if the coding mode is the planar mode, the upper-left diagonal mode, the upper-right diagonal mode and the down-left diagonal mode,

if the block size is the 16×16 block size, determine the filter decision to be that prediction samples used to predict the current block are to be filtered if the coding mode is the planar mode, or if the coding mode is any other of the plurality of intra-prediction coding modes except for the horizontal mode, the vertical mode, the DC mode, and the modes directly adjacent to the horizontal mode or vertical mode, or

if the block size is the 32×32 block size, determine the filter decision to be that prediction samples used to predict the current block are to be filtered if the coding mode is the planar mode, or if the coding mode is any other of the plurality of the plurality of prediction coding modes except for the horizontal mode, the

vertical mode, and the DC mode, and

intra-predictive code the current block, wherein intra-predictive coding the current block comprises using the determined filtering decision to either filter or not filter the pixels used to predict the current block.

12. The apparatus of claim **11**, wherein to determine the filtering decision, the processor is configured to select from a first filter decision table based on the block size and the encoding mode.

13. The apparatus of claim **11**, wherein to determine the filtering decision, the processor is further configured to:

select from a first filter table based on the block size and the coding mode, when the block size is smaller than a threshold block size; and

determine whether to select from the first filter table or a second filter table based on the block size and the coding mode, when the block size is equal to or greater than a threshold block size.

14. The apparatus of claim **13**, wherein the processor is further configured to:

select a filter decision from a first filter table or a second filter table;

using the selected filter decision to filter the pixels used to predict the current block;

evaluate a first result of the application of the filter from the first filter table and a second result of the application of the filter from the second filter table to determine which yields better results; and

select the filter from the first filter table or the second filter table based on the determination.

15. The apparatus of claim **14**, wherein the processor is further configured to encode a filtering indication when the selected filter is selected from the second filter table.

16. The apparatus of claim **13** further comprising a memory configured to store the first filter table and the second filter table.

17. The apparatus of claim **13**, wherein the first filter table and the second filter table each comprise entries corresponding to different combinations of block sizes and coding modes, and wherein each of the entries comprises a filter selected from a set of filters.

18. The apparatus of claim **17**, wherein the set of filters comprises at least two filters, and wherein one of the filters comprises an all-pass filter.

19. The apparatus of claim **11** wherein the apparatus comprises a video decoder, wherein the current block comprises a block of video data encoded using intra-predictive coding, the processor is further configured to:

determine whether the encoded current block includes a filtering indication,

wherein to determine the filter the processor is further configured to determine the filter decision based on the block size, the coding mode, and the encoded filtering indication.

20. The apparatus of claim **11**, wherein the current block comprises a prediction unit coded according to Short-Distance Intra Prediction (SDIP).

21. The apparatus of claim **20**, wherein the processor is further configured to:

determine a dimension associated with the current block; and

determine the block size based on the dimension using a set of dimension-determination rules.

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

means for determining a block size associated with a current block of video data, the block size determined from

a plurality of block sizes including a 4×4 block size, an 8×8 block size, a 16×16 block size, and a 32×32 block size;

means for determining an intra-prediction coding mode associated with the current block of video data, the intra-prediction coding mode determined from a plurality of intra-prediction coding modes including a horizontal mode, a vertical mode, a planar mode, a DC mode, and a plurality of diagonal modes, including an upper-left diagonal mode, an upper right diagonal mode, a down-left diagonal mode and wherein the plurality of diagonal modes include a plurality of modes that are directly adjacent to the horizontal mode or the vertical mode;

means for determining based on the block size and intra-prediction coding mode a filtering decision for whether to apply a filter to prediction samples used to predict the current block, the means for determining comprising:

if the block size is the 4×4 block size, means for determining the filter decision to be that no filtering is to be applied to prediction samples used to predict the current block for any of the plurality of intra-prediction coding modes,

if the block size is the 8×8 block size, means for determining the filter decision to be that prediction samples used to predict the current block to be are filtered only if the coding mode is the planar mode, the upper-left diagonal mode, the upper-right diagonal mode and the down-left diagonal mode,

if the block size is the 16×16 block size, means for determining the filter decision to be that prediction samples used to predict the current block are to be filtered if the coding mode is the planar mode, or if the coding mode is any other of the plurality of intra-

prediction coding modes except for the horizontal mode, the vertical mode, the DC mode, and the modes directly adjacent to the horizontal mode or vertical mode, or

if the block size is the 32×32 block size, means for determining the filter decision to be that prediction samples used to predict the current block are to be filtered if the coding mode is the planar mode, or if the coding mode is any other of the plurality of the plurality of prediction coding modes except for the horizontal mode, the vertical mode, and the DC mode; and

means for intra-predictive encoding the current block, wherein intra-predictive encoding the current block comprises using the determined filtering decision to either filter or not filter the pixels used to predict the current block.

23. The apparatus of claim **22**, wherein the means for determining the filtering decision comprises means for selecting from a first filter table based on the block size and the coding mode.

24. The apparatus of claim **22**, wherein the means for determining the filtering decision comprises:

means for selecting from a first filter table based on the block size and the coding mode, when the block size is smaller than a threshold block size; and

means for determining whether to select from the first filter table or a second filter table based on the block size and the coding mode, when the block size is equal to or greater than a threshold block size.

25. The apparatus of claim **22**, wherein the means for determining the filtering decision comprises:

means for selecting from a first table based on the block size and the coding mode, when the block size is smaller

than a threshold block size; and

means for determining whether to select from the first table or a second table, when the block size is equal to or greater than a threshold block size.

26. The apparatus of claim **25**, further comprising:

means for select a filter decision from a first filter table or the second filter table;

means for using the selected filter decision to filter the pixels used to predict the current block;

means for evaluating a first result of the application of the filter from the first filter table and a second result of the application of the filter from the second filter table to determine which yields better results; and

means for selecting the filter decision from the first filter table or the second filter table based on the determination.

27. The apparatus of claim **26**, further comprising means for encoding a filtering indication when the selected filter is selected from the second filter table.

28. The apparatus of claim **26**, wherein the first filter table and the second filter table each comprise entries corresponding to different combinations of block sizes and coding modes, and wherein each of the entries comprises a filter selected from a set of filters.

29. The apparatus of claim **28**, wherein the set of filters comprises at least two filters, and wherein one of the filters comprises an all-pass filter.

30. The apparatus of claim **25**, further comprising means for storing the first filter table and the second filter table.

31. The apparatus of claim **22**, wherein the apparatus comprises a video decoder, wherein the current block comprises a block of video data encoded using intra-predictive coding, the apparatus further comprising:

means for determining whether the encoded current block includes a filtering indication,

wherein the means for determining the filter decision comprises means for determining the filter decision based on the block size, the coding mode, and the encoded filtering indication.

32. The apparatus of claim **22**, wherein the current block comprises a prediction unit coded according to Short-Distance Intra Prediction (SDIP).

33. The apparatus of claim **32**, further comprising:

means for determining a dimension associated with the current block; and

means for determining the block size based on the dimension using a set of dimension-determination rules.

34. A non-transitory computer-readable storage medium

determine a block size associated with a current block of video data, the block size determined from a plurality of block sizes including a 4×4 block size, an 8×8 block size, a 16×16 block size, and a 32×32 block size;

determine an intra-prediction coding mode associated with the current block of video data, the intra-prediction coding mode determined from a plurality of intra-prediction coding modes including a horizontal mode, a vertical mode, a planar mode, a DC mode, and a plurality of diagonal modes, including an upper-left diagonal mode, an upper right diagonal mode, a down-left diagonal mode and wherein the plurality of diagonal modes include a plurality of modes that are directly adjacent to the horizontal mode or the vertical mode;

determine based on the block size and intra-prediction coding mode a filtering decision for whether to apply a

filter to prediction samples used to predict the current block, to determine the instructions further cause the processor to:

if the block size is the 4×4 block size, determine the filter decision to be that no filtering is to be applied to prediction samples used to predict the current block for any of the plurality of intra-prediction coding modes,

if the block size is the 8×8 block size, determine the filter decision to be that prediction samples used to predict the current block to be are filtered only if the coding mode is the planar mode, the upper-left diagonal mode, the upper-right diagonal mode and the down-left diagonal mode,

if the block size is the 16×16 block size, determine the filter decision to be that prediction samples used to predict the current block are to be filtered if the coding mode is the planar mode, or if the coding mode is any other of the plurality of intra-prediction coding modes except for the horizontal mode, the vertical mode, the DC mode, and the modes directly adjacent to the horizontal mode or vertical mode, or

if the block size is the 32×32 block size, determine the filter decision to be that prediction samples used to predict the current block are to be filtered if the coding mode is the planar mode, or if the coding mode is any other of the plurality of the plurality of prediction coding modes except for the horizontal mode, the vertical mode, and the DC mode; and

intra-predictive code the current block, wherein intra-predictive coding the current block comprises using the determined filtering decision to either filter or not filter the pixels used to predict the current block.

35. The non-transitory computer-readable storage medium of claim **34**, wherein the instructions that cause the processor to determine the filtering decision comprise instructions that cause the processor to select from a first filter table based on the block size and the coding mode.

36. The non-transitory computer-readable storage medium of claim **34**, wherein the instructions that cause the processor to identify the filtering decision comprise instructions that cause the processor to:

select from a first filter table based on the block size and the coding mode, when the block size is smaller than a threshold block size; and

determine whether to select from the first filter table or a second filter table based on the block size and the coding mode, when the block size is equal to or greater than a threshold block size.

37. The non-transitory computer-readable storage medium of claim **36**, wherein the instructions further comprise instructions that cause the processor to:

determine a filter decision from the first filter table or the second filter table;

use the selected filter decision to filter the pixels used to predict the current block;

evaluate a first result of the application of the filter from the first filter table and a second result of the application of the filter from the second filter table to determine which yields better results; and

select the filter decision from the first filter table or the second filter table based on the determination.

38. The "non-transitory computer-readable storage medium of claim **37**, further comprising instructions that cause the processor to encode a filtering indication when the selected filter is selected from the second filter table.

39. The non-transitory computer-readable storage medium of claim **37**, wherein the first filter table and the second filter table each comprise entries corresponding to different combinations of block sizes and coding modes, and wherein each of the entries comprises a filter selected from a set of filters.

40. The non-transitory computer-readable storage medium of claim **39**, wherein the set of filters comprises at least two filters, and wherein one of the filters comprises an all-pass filter.

41. The non-transitory computer-readable storage medium of claim **34**, wherein the instructions that cause the processor to decode the current block, wherein the current block comprises a block of video data encoded using intra-predictive coding, further comprising instructions that cause the processor to:

determine whether the encoded current block includes a filtering indication, wherein the instruction to determine the filter comprise instruction to determine the filter decision based on the block size, the coding mode, and the encoded filtering indication.

42. The non-transitory computer-readable storage medium of claim **34**, wherein the current block comprises a prediction unit coded according to Short-Distance Intra Prediction (SDIP).

43. The non-transitory computer-readable storage medium of claim **42**, further comprising instructions that cause the processor to:

determine a dimension associated with the current block; and

determine the block size based on the dimension using a set of dimension-determination rules.