CLAIMS

1. A method of decoding video data, the method comprising: receiving a block of video data encoded using a position dependent intra prediction combination (PDPC) mode, the block of video data having a non-square shape defined by a width and a height; determining one or more horizontally-related PDPC parameters for the PDPC mode based on the width of the block of video data, wherein determining the one or more horizontally-related PDPC parameters comprises retrieving one or more entries of one or more lookup tables as a function of the width of the block of video data, including: retrieving a first index in a first lookup table based on the width of the block of video data, the first index pointing to a first entry in a second lookup table, and retrieving the one or more horizontally-related PDPC parameters in the second lookup table based on the retrieved first index; determining one or more vertically-related PDPC parameters based on the height of the block of video data, wherein determining the one or more vertically-related PDPC parameters comprises retrieving one or more entries of the one or more lookup tables as a function of the height of the block of video data, including: retrieving a second index in the first lookup table based on the height of the block of video data, the second index pointing to a second entry in the second lookup table, and retrieving the one or more vertically-related PDPC parameters in the second lookup table based on the retrieved second index; and decoding the block of video data using the PDPC mode and the determined PDPC parameters.

2. The method of claim 1, wherein the one or more PDPC parameters include one or more non-directional PDPC parameters that are not horizontally-related and are not vertically-related, and wherein determining the one or more PDPC parameters comprises: determining the one or more non-directional PDPC parameters based on a function of the width and the height of the block of video data.

3. The method of claim 2, wherein the function is one or more of a minimum of the width and the height of the block of video data, a maximum of the width and the height of the block of video data, or a weighted average of the width and the height of the block of video data.

4. The method of claim 3, wherein determining the one or more non-directional PDPC parameters comprises accessing one or more entries of the one or more lookup tables as a function of the width and the height of the block of video data.

5. The method of claim 1, the method being executable on a wireless communication device, wherein the device comprises: a memory configured to store the block of video data; a processor configured to execute instructions to process the block of video data stored in the memory; and a receiver configured to receive the block of video data.

6. The method of claim 5, wherein the wireless communication device is a mobile station and the block of video data is received by the receiver and modulated according to a cellular communication standard.

7. An apparatus configured to decode video data, the apparatus comprising: a memory configured to store a block of video data encoded using a position dependent intra prediction combination (PDPC) mode, the block of video data having a non-square shape defined by a width and a height; and one or more processors configured to: receive the block of video data; determine one or more horizontally-related PDPC parameters for the PDPC mode based on the width of the block of video data, wherein to determine the one or more horizontally-related PDPC parameters, the one or more processors are configured to retrieve one or more entries of one or more lookup tables as a function of the width of the block of video data, including: retrieve a first index in a first lookup table based on the width of the block of video data, the first index pointing to a first entry in a second lookup table, and retrieve the one or more horizontally-related PDPC parameters in the second lookup table based on the retrieved first index; determine one or more vertically-related PDPC parameters based on the height of the block of video data, wherein to determine the one or more vertically-related PDPC parameters, the one or more processors are further configured to retrieve one or more entries of the one or more lookup tables as a function of the height of the block of video data, including: retrieve a second index in the first lookup table based on the height of the block of video data, the second index pointing to a second entry in the second lookup table, and retrieve the one or more vertically-related PDPC parameters in the second lookup table based on the retrieved second index; and decode the block of video data using the PDPC mode and the determined PDPC parameters.

8. The apparatus of claim 7, wherein the one or more PDPC parameters include one or more non-directional PDPC parameters that are not horizontally-related and are not vertically-related, and wherein to determine the one or more PDPC parameters, the one or more processors are further configured to determine the one or more non-directional PDPC parameters based on a function of the width and the height of the block of video data.

9. The apparatus of claim 8, wherein the function is one or more of a minimum of the width and the height of the block of video data, a maximum of the width and the height of the block of video data, or a weighted average of the width and the height of the block of video data.

10. The apparatus of claim 9, wherein to determine the one or more non-directional PDPC parameters, the one or more processors are further configured to access one or more entries of one or more lookup tables as a function of the width and the height of the block of video data.

11. The apparatus of claim 7, wherein the apparatus is a wireless communication device, the apparatus further comprising: a receiver configured to receive the block of video data.

12. The apparatus of claim 11, wherein the wireless communication device is a mobile station and the block of video data is received by the receiver and modulated according to a cellular communication standard.

13. An apparatus configured to decode video data, the apparatus comprising: means for receiving

a block of video data encoded using a position dependent intra prediction combination (PDPC) mode, the block of video data having a non-square shape defined by a width and a height; means for determining one or more horizontally-related PDPC parameters for the PDPC mode based on the width of the block of video data, wherein determining the one or more horizontally-related PDPC parameters comprises retrieving one or more entries of one or more lookup tables as a function of the width of the block of video data, including: means for retrieving a first index in a first lookup table based on the width of the block of video data, the first index pointing to a first entry in a second lookup table, and means for retrieving the one or more horizontally-related PDPC parameters in the second lookup table based on the retrieved first index; means for determining one or more vertically-related PDPC parameters based on the height of the block of video data, wherein determining the one or more vertically-related PDPC parameters comprises retrieving one or more entries of the one or more lookup tables as a function of the height of the block of video data, including: means for retrieving a second index in the first lookup table based on the height of the block of video data, the second index pointing to a second entry in the second lookup table, and means for retrieving the one or more vertically-related PDPC parameters in the second lookup table based on the retrieved second index; and means for decoding the block of video data using the PDPC mode and the determined PDPC parameters.

14. A non-transitory computer-readable storage medium having instructions stored thereon that, when executed, cause one or more processors of a device to configured to decode video data to: receive a block of video data encoded using a position dependent intra prediction combination (PDPC) mode, the block of video data having a non-square shape defined by a width and a height; determine one or more horizontally-related PDPC parameters for the PDPC mode based on the width of the block of video data, wherein to determine the one or more horizontally-related PDPC parameters, the instructions further cause the one or more processors to retrieve one or more entries of one or more lookup tables as a function of the width of the block of video data, including: retrieve a first index in a first lookup table based on the width of the block of video data, the first index pointing to a first entry in a second lookup table, and retrieve the one or more horizontally-related PDPC parameters in the second lookup table based on the retrieved first index; determine one or more vertically-related PDPC parameters based on the height of the block of video data, wherein to determine the one or more vertically-related PDPC parameters, the instructions further cause the one or more processors to retrieve one or more entries of the one or more lookup tables as a function of the height of the block of video data, including: retrieve a second index in the first lookup table based on the height of the block of video data, the second index pointing to a second entry in the second lookup table, and retrieve the one or more vertically-related PDPC parameters in the second lookup table based on the retrieved second index; and decode the block of video data using the PDPC mode and the determined PDPC parameters.

15. A method of encoding video data, the method comprising: receiving a block of video data, the block of video data having a non-square shape defined by a width and a height; determining one or more horizontally-related position dependent intra prediction combination (PDPC) parameters for a PDPC prediction mode based on the width of the block of video data, wherein

determining the one or more horizontally-related PDPC parameters comprises retrieving one or more entries of one or more lookup tables as a function of the width of the block of video data, including: retrieving a first index in a first lookup table based on the width of the block of video data, the first index pointing to a first entry in a second lookup table, and retrieving the one or more horizontally-related PDPC parameters in the second lookup table based on the retrieved first index; determining one or more vertically-related PDPC parameters based on the height of the block of video data, wherein determining the one or more vertically-related PDPC parameters comprises retrieving one or more entries of the one or more lookup tables as a function of the height of the block of video data, including: retrieving a second index in the first lookup table based on the height of the block of video data, the second index pointing to a second entry in the second lookup table, and retrieving the one or more vertically-related PDPC parameters in the second lookup table based on the retrieved second index; and encoding the block of video data using the prediction mode and the determined one or more parameters.

16. The method of claim 15, wherein the one or more PDPC parameters include one or more non-directional PDPC parameters that are not horizontally-related and are not vertically-related, and wherein determining the one or more PDPC parameters comprises: determining the one or more non-directional PDPC parameters based on a function of the width and the height of the block of video data.

17. The method of claim 16, wherein the function is one or more of a minimum of the width and the height of the block of video data, a maximum of the width and the height of the block of video data, or a weighted average of the width and the height of the block of video data.

18. The method of claim 17, wherein determining the one or more non-directional PDPC parameters comprises accessing one or more entries of one or more lookup tables as a function of the width and the height of the block of video data.

19. The method of claim 15, the method being executable on a wireless communication device, wherein the device comprises: a memory configured to store the block of video data; a processor configured to execute instructions to process the block of video data stored in the memory; and a transmitter configured to transmit the encoded block of video data.

20. The method of claim 19, wherein the wireless communication device is a mobile station and the encoded block of video data is transmitted by the transmitter and modulated according to a cellular communication standard.

21. An apparatus configured to encode video data, the apparatus comprising: a memory configured to store a block of video data, the block of video data having a non-square shape defined by a width and a height; and one or more processors configured to: receive the block of video data; determine one or more horizontally-related position dependent intra prediction combination (PDPC) parameters for a PDPC prediction mode based on the width of the block of video data, wherein to determine the one or more horizontally-related PDPC parameters, the one

or more processors are configured to retrieve one or more entries of one or more lookup tables as a function of the width of the block of video data, including: retrieve a first index in a first lookup table based on the width of the block of video data, the first index pointing to a first entry in a second lookup table, and retrieve the one or more horizontally-related PDPC parameters in the second lookup table based on the retrieved first index; determine one or more vertically-related PDPC parameters based on the height of the block of video data, wherein to determine the one or more vertically-related PDPC parameters, the one or more processors are further configured to retrieve one or more entries of the one or more lookup tables as a function of the height of the block of video data, including: retrieve a second index in the first lookup table based on the height of the block of video data, the second index pointing to a second entry in the second lookup table, and retrieve the one or more vertically-related PDPC parameters in the second lookup table based on the retrieved second index; and encode the block of video data using the prediction mode and the determined one or more parameters.

22. The apparatus of claim 21, wherein the one or more PDPC parameters include one or more non-directional PDPC parameters that are not horizontally-related and are not vertically-related, and wherein to determine the one or more PDPC parameters, the one or more processors are further configured to determine the one or more non-directional PDPC parameters based on a function of the width and the height of the block of video data.

23. The apparatus of claim 22, wherein the function is one or more of a minimum of the width and the height of the block of video data, a maximum of the width and the height of the block of video data, or a weighted average of the width and the height of the block of video data.

24. The apparatus of claim 23, wherein to determine the one or more non-directional PDPC parameters, the one or more processors are further configured to access one or more entries of one or more lookup tables as a function of the width and the height of the block of video data.

25. The apparatus of claim 21, wherein the apparatus is a wireless communication device, the apparatus further comprising: a transmitter configured to transmit the encoded block of video data.

26. The apparatus of claim 25, wherein the wireless communication device is a mobile station and the encoded block of video data is transmitted by the transmitter and modulated according to a cellular communication standard.