CLAIMS:

1. A method of video decoding at a video decoder, comprising:

receiving data of a current block coded with an intra block copy (IBC) mode in a bitstream;

determining a block vector of the current block based on a history-based block vector prediction (HBVP) table that includes one or more entries each corresponding to a previously decoded block, each entry including a block vector of the corresponding previously decoded block and a location of the corresponding previously decoded block,

wherein the determining the block vector of the current block based on the HBVP table includes:

constructing a block vector prediction (BVP) candidate list based on the HBVP table, the BVP candidate list including one or more of:

a first candidate that includes a first block vector of the block vectors in the HBVP table, the corresponding previously decoded block of the first block vector having a location to the left of the current block, or

a second candidate that includes a second block vector of the block vectors in the HBVP table, the corresponding previously decoded block of the second block vector having a location on top of the current block; and

reconstructing the current block based on the determined block vector of the current block.

2. The method of claim 1, further comprising:

storing the block vector, a location, a width, and a height of the current block in the HBVP table.

3. The method of claim 1 or 2, wherein each entry includes an x coordinate and y coordinate of a corner of the corresponding previously decoded block.

4. The method of any one of claims 1 to 3, wherein each entry includes one of corner positions of the corresponding previously decode block, and a width and a height of the corresponding previously decoded block.

~~5. The method of any of claims 1 to 4, wherein the determining the block vector of the current block based on the HBVP table further includes:~~

~~constructing a block vector prediction (BVP) candidate list based on the HBVP table, the BVP candidate list including one or more of:~~

~~a first candidate that includes a first block vector of the block vectors in the HBVP table, the corresponding previously decoded block of the first block vector having a location to the left of the current block, or~~

~~a second candidate that includes a second block vector of the block vectors in the HBVP table, the corresponding previously decoded block of the second block vector having a location on top of the current block.~~

~~6~~5. The method of any one of claims 1 to ~~5~~4, wherein the current block is coded in one of a skip mode, a merge mode, or an advanced motion vector prediction (AMVP) mode.

~~7~~6. The method of any one of claims 1 to ~~6~~5, wherein the determining the block vector of the current block based on the HBVP table further includes:

scanning the entries in the HBVP table according to an order, and

adding the block vector of one of the entries in the HBVP table to ~~a~~ the BVP candidate list whenever the respective entry having a location next to the current block until a maximum number of the BVP candidate list is reached.

~~8~~7. The method of claim 1, wherein ~~determining the block vector of the current block based on the HBVP table comprises:~~

~~constructing a block vector prediction (BVP) candidate list for decoding the current block based on the HBVP table;~~ the location of the corresponding previously decoded block ~~being~~ is represented by an x coordinate and a y coordinate of a same corner of the corresponding previously decoded block, and a block vector in the HBVP table ~~being~~ is selected to be included in the BVP candidate list according to at least one of the x coordinate or the y coordinate of the previously decoded block corresponding to the selected block vector~~; and~~

~~determining the block vector of the current block according to the BVP candidate list for decoding the current block~~.

~~9~~8. An apparatus of video decoding, comprising circuitry configured to:

receive data of a current block coded with an intra block copy (IBC) mode in a bitstream;

determine a block vector of the current block based on a history-based block vector prediction (HBVP) table that includes one or more entries each corresponding to a previously decoded block, each entry including a block vector of the corresponding previously decoded block and a location of the corresponding previously decoded block; and

reconstruct the current block based on the determined block vector of the current block, wherein the circuitry is further configured to:

construct a block vector prediction (BVP) candidate list based on the HBVP table, the BVP candidate list including one or more of:

a first candidate that includes a first block vector of the block vectors in the HBVP table, the corresponding previously decoded block of the first block vector having a location to the left of the current block, or

a second candidate that includes a second block vector of the block vectors in the HBVP table, the corresponding previously decoded block of the second block vector having a location on top of the current block.

~~10~~9. The apparatus of claim ~~9~~8, wherein the circuitry is further configured to:

store the block vector, a location, a width, and a height of the current block in the HBVP table.

~~11~~10. The apparatus of claim ~~9~~ 8 or ~~10~~9, wherein each entry includes an x coordinate and y coordinate of a corner of the corresponding previously decoded block.

~~12~~11. The apparatus of any one of claims ~~9~~ 8 to ~~11~~10, wherein each entry includes one of corner positions of the corresponding previously decode block, and a width and a height of the corresponding previously decoded block.

~~13. The apparatus of any of claims 9 to 12, wherein the circuitry is further configured to:~~

~~construct a block vector prediction (BVP) candidate list based on the HBVP table, the BVP candidate list including one or more of:~~

~~a first candidate that includes a first block vector of the block vectors in the HBVP table, the corresponding previously decoded block of the first block vector having a location to the left of the current block, or~~

~~a second candidate that includes a second block vector of the block vectors in the HBVP table, the corresponding previously decoded block of the second block vector having a location on top of the current block.~~

~~14~~12. The apparatus of any one of claims ~~9~~ 8 to ~~13~~11, wherein the current block is coded in one of a skip mode, a merge mode, or an advanced motion vector prediction (AMVP) mode.

~~15~~13. The apparatus of any one of claims ~~9~~ 8 to ~~14~~12, wherein the circuitry is further configured to:

scan the entries in the HBVP table according to an order, and

add the block vector of one of the entries in the HBVP table to ~~a~~ the BVP candidate list whenever the respective entry having a location next to the current block until a maximum number of the BVP candidate list is reached.

~~16~~14. The apparatus of claim ~~9~~8, wherein ~~the circuitry is further configured to:~~

~~construct a block vector prediction (BVP) candidate list for decoding the current block based on the HBVP table;~~ the location of the corresponding previously decoded block ~~being~~ is represented by an x coordinate and a y coordinate of a same corner of the corresponding previously decoded block, and a block vector in the HBVP table ~~being~~ is selected to be included in the BVP candidate list according to at least one of the x coordinate or the y coordinate of the previously decoded block corresponding to the selected block vector~~; and~~

~~determine the block vector of the current block according to the BVP candidate list for decoding the current block~~.

~~17~~15. A non-transitory computer-readable medium storing instructions that, when executed by a processor, cause the processor to perform the method of any one of claims 1 to ~~8~~7.