#### Reference picture lists combination syntax

|  |  |
| --- | --- |
| ref\_pic\_list\_combination( ) { | Descriptor |
| if( slice\_type = = B ) { |  |
| **ref\_pic\_list\_combination\_flag** | u(1) |
| if( ref\_pic\_list\_combination\_flag ) { |  |
| **num\_ref\_idx lc\_active\_minus1** | ue(v) |
| **ref\_pic\_list\_modification\_flag\_lc** | u(1) |
| if( ref\_pic\_list\_modification\_flag\_lc) |  |
| for ( i =0; i <= num\_ref\_idx\_lc\_active\_minus1; i++ ) { |  |
| **pic\_from\_list\_0\_flag** | u(1) |
| if ( ( pic\_from\_list\_0\_flag == 1 &&  num\_ref\_idx\_l0\_active\_minus1 > 0 ) | |  ( pic\_from\_list\_0\_flag == 0 &&  num\_ref\_idx\_l1\_activie\_minus1 > 0 ) |  |
| **ref\_idx\_list\_curr** | ue(v) |
| } |  |
| } |  |
| } |  |
| } |  |

#### Reference picture lists combination semantics

**ref\_pic\_list\_combination\_flag** equal to 1 indicates that the reference picture list 0 and the reference picture list 1 are combined to be an additional reference picture lists combination used for the prediction units being uni-directional predicted. This flag equal to 0 indicates that the reference picture list 0 and reference picture list 1 are identical thus reference picture list 0 is used as the reference picture lists combination. The reference picture lists combination is set to be empty at the start of the loop defined in this table.

**num\_ref\_idx lc\_active\_minus1**+1 specifies the number of reference pictures selected from reference picture list 0 or reference picture list 1 in the reference picture lists combination.

**ref\_pic\_list\_modification\_flag\_lc** equal to 1 specifies that the syntax elements pic\_from\_list\_0\_flag and ref\_idx\_list\_curr are present for specifying the mapping for the entries of the reference picture lists combination to the entries of reference picture list 0 and reference picture list 1. ref\_pic\_list\_modification\_flag\_lc equal to 0 specifies that these syntax elements are not present. The reference picture lists combination is initialized as specified in subclause X.X.X.X.

**pic\_from\_list\_0\_flag** indicates the current reference picture added into the reference picture lists combination is from reference picture list 0 or reference picture list 1. When this flag is equal to 1, the picture is from the reference picture list 0, and the CurrRefPicList is reference picture list 0; when this flag is equal to 0, the picture is from the reference picture list 1, and the CurrRefPicList is reference picture list 1.

**ref\_idx\_list\_curr** indicates the reference index of the picture in the reference picture list specified by pic\_from\_list\_0\_flag to be appended at the end of the reference picture lists combination. If ref\_idx\_list\_curr is not present, it is set to 0.