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| *Title:* | **Removal of redundant VSP candidates in Merge mode** | | |
| *Status:* | Input document | | |
| *Purpose:* | Proposal | | |
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# Proposed Text

I. 8.5.3.2.2 Derivation process for luma motion vectors for merge mode

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7. The merging candidate list, extMergeCandList, is constructed as follows:

i = 0  
 if( availableFlagT )  
 extMergeCandList[ i++ ] = T  
 if( availableFlagD )  
 extMergeCandList[ i++ ] = D  
 if( availableFlagIvMC && ( !availableFlagT  | |  differentMotion( T, IvMC ) ) )  
 extMergeCandList[ i++ ] = IvMC  
 N = DepthFlag ? T : IvMC  
 if( availableFlagA1 && ( !availableFlagN  | |  differentMotion( N, A1 ) ) )  
 extMergeCandList[ i++ ] = A1 if( availableFlagB1 && ( !availableFlagN  | |  differentMotion( N, B1 ) ) )  
 extMergeCandList[ i++ ] = B1 if( availableFlagVSP && !VspModeFlag[xPb-1][yPb+nPbH-1] && !ic\_flag && iv\_res\_pred\_weight\_idx = = 0 && i < ( 5 + NumExtraMergeCand ) )  
 extMergeCandList[ i++ ] = VSP

if( availableFlagB0 )  
 extMergeCandList[ i++ ] = B0 if( availableFlagIvDC && ( !availableFlagA1  | |  differentMotion( A1, IvDC ) ) &&   
 ( !availableFlagB1  | |  differentMotion( B1, IvDC ) ) && ( i < ( 5 + NumExtraMergeCand ) ) )  
 extMergeCandList[ i++ ] = IvDC  
  
 if( availableFlagA0 && i < ( 5 + NumExtraMergeCand ) )  
 extMergeCandList[ i++ ] = A0 if( availableFlagB2 && i < ( 5 + NumExtraMergeCand ) )  
 extMergeCandList[ i++ ] = B2 if( availableFlagIvMCShift && i < ( 5 + NumExtraMergeCand ) &&  
 ( !availableFlagIvMC  | |  differentMotion( IvMC, IvMCShift ) ) )  
 extMergeCandList[ i++ ] = IvMCShift  
 if( availableFlagIvDCShift && i < ( 5 + NumExtraMergeCand ) )  
 extMergeCandList[ i++ ] = IvDCShift  
 j = 0  
 while( i < MaxNumMergeCand ) {  
 N = baseMergeCandList[ j++ ]  
 if( N != A1 && N != B1 && N != B0 && N != A0 && N != B2 )  
 extMergeCandList[ i++ ] = N  
 }

...

I.8.5.3.2.18 Derivation process for a view synthesis prediction flag

Inputs to this process are:

* a luma location ( xCb, yCb ) of the top-left sample of the current luma coding block relative to the top-left luma sample of the current picture,
* a luma location ( xPb, yPb ) of the top-left sample of the current luma prediction block relative to the top-left luma sample of the current picture,
* two variables nPbW and nPbH specifying the width and the height of the current prediction block,
* a merge candidate indicator N, specifying the merge candidate.

Outputs of this process are:

* a variable mergeCandIsVspFlag specifying, whether the merge candidate is a view synthesis prediction merge candidate.

The variable mergeCandIsVspFlag is derived as specified in the following:

* If N is equal to VSP, mergeCandIsVspFlag is set equal to 1,
* Otherwise, if N is equal to A1 , the variable mergeCandIsVspFlag is set equal to VspModeFlag[ xPb-1 ][yPb+nPbH-1 ].
* Otherwise, mergeCandIsVspFlag is set equal to 0.



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