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On clarification of applicable conditions of DMVR and BDOF

JVET-Q0128

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- When there is no luma weighting factor for weighted prediction and there are some chroma weighing factors, since the enabling conditions of DMVR and BDOF are not clear, **there are bugs in both text and software.**
- Propose to fix the bugs, or to add a condition that there is no chroma weighing factor for both L0 and L1 reference indexes.

- One of the enabling conditions of DMVR and BDOF is that there is no luma weighting factor for weighted prediction for both L0 and L1 reference indexes.

8.5 Decoding process for coding units coded in inter prediction mode

8.5.1 General decoding process for coding units coded in inter prediction mode

When all of the following conditions are true, dmvrFlag is set equal to 1:

Both `luma_weight_l0_flag[refIdxL0]` and `luma_weight_l1_flag[refIdxL1]` are equal to 0.

8.5.6 Decoding process for inter blocks

8.5.6.1 General

If all of the following conditions are true, bdofFlag is set equal to TRUE.

`luma_weight_l0_flag[refIdxL0]` and `luma_weight_l1_flag[refIdxL1]` are both equal to 0.

- When there is no luma weighting factor and there are some chroma weighting factors, chroma weighted prediction shall be applied even if DMVR and BDOF are on or off.

But, there are several confusions in both text and software.

- Draft7
 - weightedPredFlag is set equal to
(pps_weighted_bipred_flag && !dmvrFlag)
 - !dmvrFlag means that chroma weighted prediction is prohibited when DMVR is on. Therefore this condition seems to be incomplete.
 - It should be set equal to (pps_weighted_bipred_flag && !(dmvrFlag && cldx == 0)).
 - or
 - Revert this modification (ticket #435) as ticket #806
- VTM-7.0
 - DMVR and BDOF support chroma weighted prediction.
 - CIIP encoder does not consider chroma weighted prediction for DMVR which has been reported as ticket #778.

- The changes are to add only one line to the applicable condition of both DMVR and BDOF.

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8.5.1 General decoding process for coding units coded in inter prediction mode

When all of the following conditions are true, dmvrFlag is set equal to 1:

Both luma_weight_l0_flag[refIdxL0] and luma_weight_l1_flag[refIdxL1] are equal to 0.

Both chroma_weight_l0_flag[refIdxL0] and chroma_weight_l1_flag[refIdxL1] are equal to 0.

8.5.6 Decoding process for inter blocks

8.5.6.1 General

If all of the following conditions are true, bdofFlag is set equal to TRUE.

luma_weight_l0_flag[refIdxL0] and luma_weight_l1_flag[refIdxL1] are both equal to 0.

chroma_weight_l0_flag[refIdxL0] and chroma_weight_l1_flag[refIdxL1] are both equal to 0.

- CTC sequences
 - No difference
- Fade sequences
 - When WeightedPredMethod is equal to 4, there are sometimes cases of no luma and some chroma weighting factors.

		Over VTM-7.0_WPM4+WPB+WPP				
		Y	U	V	EncT	DecT
Proposed (RA)	Black fade sequences	0.00%	0.01%	0.01%	100%	100%
	White fade sequences	0.00%	-0.01%	0.00%	100%	100%

- The enabling conditions of DMVR and BDOF have been clarified.
- Recommend fixing text and software.
- Thank Philippe (InterDigital) for cross-checking.

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Performance of WP (compared to VTM-7.0 CTC)

- Black fade sequences

- RA

WeightedPredMethod	Y	U	V	EncT	DecT
0	-6.88%	-9.94%	-9.46%	130%	88%
2	-6.56%	-9.34%	-8.93%	131%	88%
4	-6.79%	-9.54%	-8.89%	130%	88%

- LB

WeightedPredMethod	Y	U	V	EncT	DecT
0	-29.86%	-39.12%	-37.91%	92%	87%
2	-30.52%	-40.29%	-39.03%	98%	86%
4	-29.93%	-38.52%	-37.35%	93%	87%

- White fade sequences

- RA

WeightedPredMethod	Y	U	V	EncT	DecT
0	-8.65%	-11.73%	-11.78%	127%	87%
2	-8.49%	-10.52%	-10.88%	129%	86%
4	-8.52%	-10.80%	-10.89%	128%	87%

- LB

WeightedPredMethod	Y	U	V	EncT	DecT
0	-31.19%	-39.52%	-38.45%	86%	85%
2	-31.59%	-40.63%	-39.52%	90%	85%
4	-31.21%	-38.95%	-37.96%	87%	85%