

JVET-AE0287

Non-EE2: A combination of JVET-AE0074 and JVET-AE0170

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Proposed method

- This proposal presents the results of a combination of JVET-AE0074 and JVET-AE0170
- JVET-AE0074 and JVET-AE0170 comprise three aspects:
 - *Aspect #1 (from both JVET-AE0074 and JVET-AE0170): CCP merge mode is harmonized with LB-CCP by inheriting the LB-CCP flag in the CCP merge candidate*
 - *Aspect #2 (from JVET-AE0074): The prediction of a fusion mode can be generated by the CCP-merge prediction and the angular intra-prediction*
 - *Aspect #3 (from JVET-AE0170): The prediction of a fusion mode can be generated by the CCP-merge prediction and the MM-CCCM prediction*
- The combination comprises all the three aspects from the two proposals
 - *These aspects are combined directly without any optimization in the test*

Simulation results

	AI					RA				
	Y	U	V	EncT	DecT	Y	U	V	EncT	DecT
Class A1	-0.02%	-1.08%	-1.25%	102%	99%					
Class A2	-0.08%	-0.78%	-0.79%	102%	100%					
Class B	0.01%	-0.80%	-0.74%	102%	100%					
Class C	0.01%	-0.43%	-0.29%	102%	100%	0.02%	-0.30%	-0.07%	100%	100%
Class E	0.00%	-0.46%	-0.40%	101%	100%					
Overall	-0.02%	-0.70%	-0.68%	102%	100%					
Class D	0.02%	-0.37%	-0.32%	103%	99%	0.01%	-0.39%	-0.16%	100%	102%
Class F	0.05%	-0.48%	-0.38%	100%	100%					

Conclusion

- The combination of JVET-AE0074 and JVET-AE0170 can maintain major coding gains of the two proposals
 - *JVET-AE0074*: *AI* {-0.01%, -0.34%, -0.33%, 101%, 100%}
 - *JVET-AE0170*: *AI* {-0.03%, -0.43%, -0.45%, 101%, 100%}
 - *JVET-AE0074 + JVET-AE0170*: *AI* {-0.02%, -0.70%, -0.68%, 102%, 100%}
- It is recommended to further study JVET-AE0074 + JVET-AE0170 in EE2