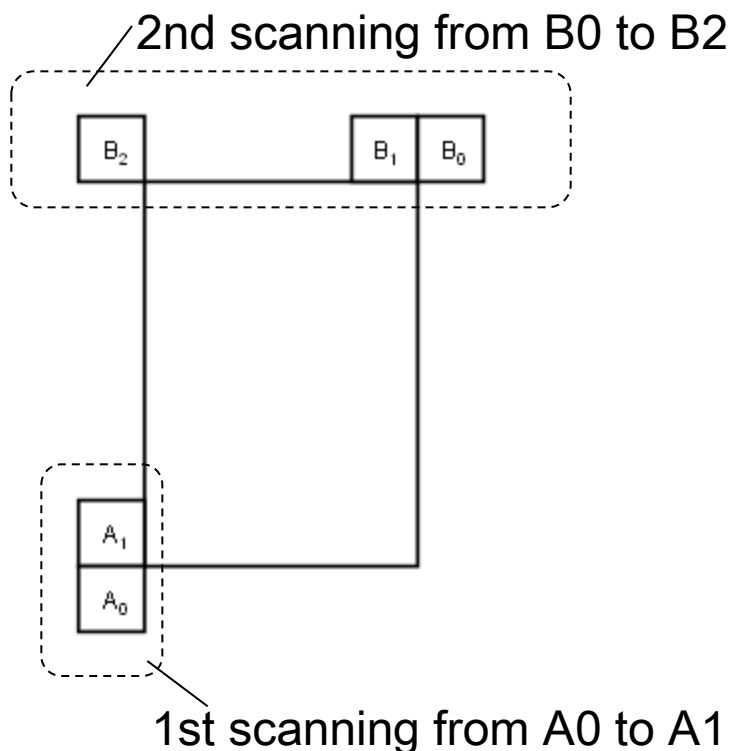


JCTVC-I0084: Reduced number of checking scaled MV candidates in AMVP list construction

Yongbing Lin
Lingzhi Liu

www.huawei.com

The candidate positions used for MV scaling process in spatial AMVP derivation



- MV scaling process may be involved to derive the scaled MV candidate in spatial AMVP derivation in HM6.
- The positions used for the MV scaling process In HM6
 - A_0, A_1 in 1st scanning
 - B_0, B_1, B_2 in 2nd scanning
- The positions used for the MV scaling process in proposal
 - A_1 in 1st scanning
 - B_1 in 2nd scanning

Simulation results comparing to HM6.0

	Random Access Main			Random Access HE10		
	Y	U	V	Y	U	V
Class A	0.1%	0.0%	0.2%	0.0%	0.2%	0.0%
Class B	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%
Class C	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%
Class D	0.0%	0.0%	-0.2%	0.0%	0.0%	-0.1%
Class E						
Overall	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%
Class F	0.0%	0.0%	0.0%	0.0%	-0.1%	0.1%
Enc Time[%]	100%			100%		
Dec Time[%]	100%			100%		

	Low delay B Main			Low delay B HE10		
	Y	U	V	Y	U	V
Class A						
Class B	0.0%	-0.2%	-0.1%	0.0%	0.0%	0.0%
Class C	0.0%	0.0%	0.0%	0.0%	0.2%	0.1%
Class D	0.1%	0.2%	0.2%	0.0%	-0.2%	-0.3%
Class E	0.1%	0.0%	0.0%	0.0%	0.1%	0.1%
Overall	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.0%	0.1%	0.0%	0.0%	-0.1%
Class F	-0.1%	-0.2%	-0.1%	0.0%	0.1%	0.5%
Enc Time[%]	100%			100%		
Dec Time[%]	99%			98%		

Cross-checked by LGE in JCTVC-I0478

Recommendation

- The proposed method
 - Simplifies MV scaling process in spatial AMVP derivation by reduce the number of checking the positions.
 - No coding efficiency loss
- It is recommended to adopt the proposal

Thank you

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