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Non-EE2: Filtered Intra Block Copy Extension (FIBC Extension)

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Proposal

- For the FIBC in ECM-11.0, one single linear filter is derived from the L-shaped template
- Two modifications
 - 1) Beside L-shape, top-only and left-only template shapes are applied
 - 2) Beside the single model, multi-model FIBC is introduced
 - Same as MMLM, two linear filters are derived by classifying the template samples based on their DC value



Simulation Results

	All Intra Main 10				
	Y	U	V	EncT	DecT
Class F	-0.13%	-0.12%	-0.07%	101.2%	99.2%
Class TGM	-0.06%	-0.02%	-0.09%	101.0%	100.1%

	Random Access Main 10				
	Y	U	V	EncT	DecT
Class F	-0.13%	-0.16%	-0.31%	100.3%	99.9%
Class TGM	-0.08%	-0.13%	-0.05%	100.4%	99.9%



Conclusion

- It proposes to improve the prediction efficiency of the FIBC by supporting multiple template shapes and multiple models
- Promising gains on screen content sequences with negligible encoding/decoding impacts
- Recommended to study the proposed method into EE
- **Thanks to ETRI for the crosschecking!**

