

The background is a solid green color with a repeating pattern of white line-art icons. These icons include various nautical items like anchors, lifebuoys, and compasses, as well as outdoor and travel-related items like a backpack, a tent, a bird, and a sun. The icons are scattered across the entire slide.

MEDIATEK

JVET-K0237

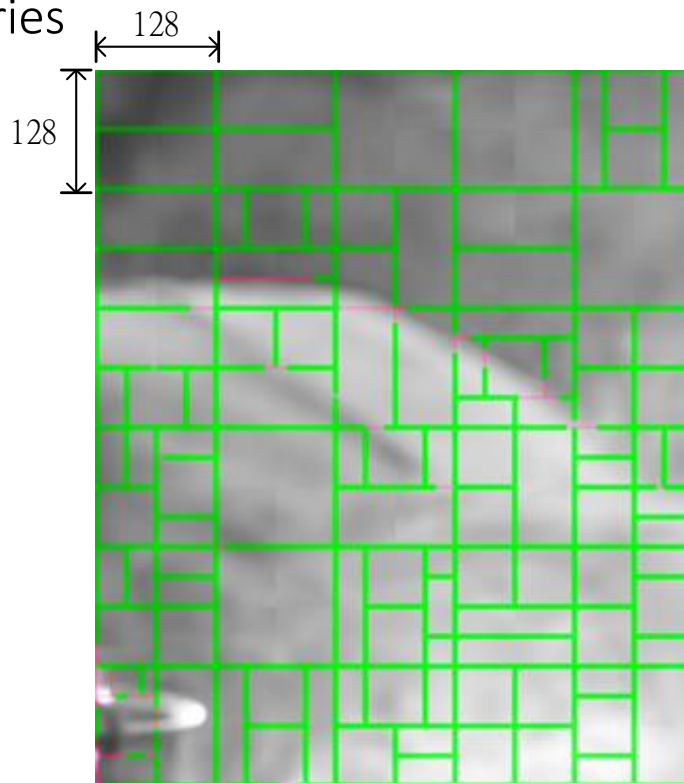
CE2-related: Bugfix for deblocking at maximum transform block boundaries

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Bugfix for Deblocking at Maximum Transform Block Boundaries

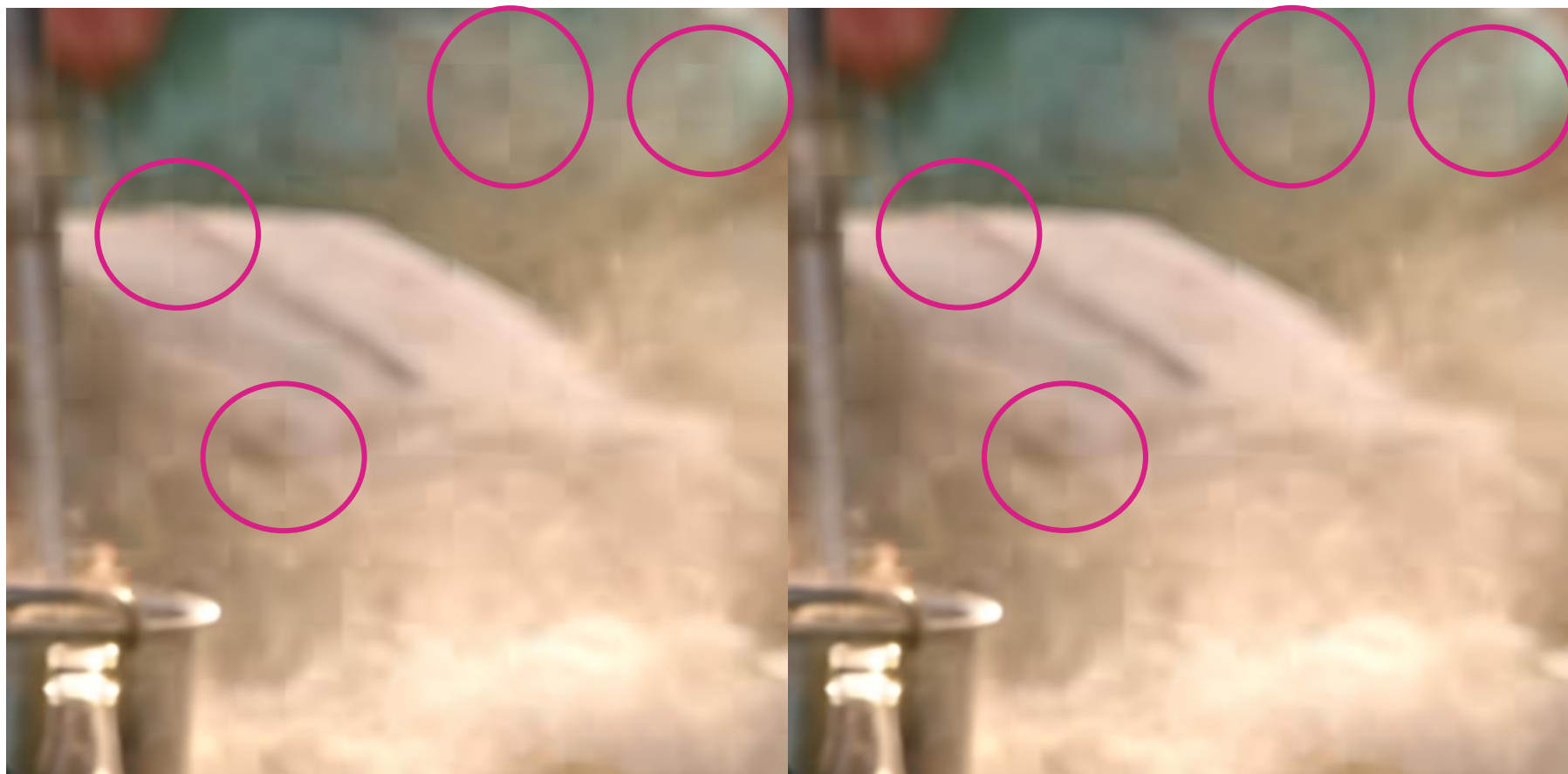
- In VTM-1.0/BMS-1.0, CTU is 128x128 and maximum TU is 64x64
 - CTU 128x128 is tiled with four 64x64 TUs
 - Deblocking is only performed on CU boundaries
- Blocky artifacts are visible at maximum TB boundaries that do not coincide with any CB boundaries



Green line: strong filters are applied
Red lines: weak filters are applied

Example of Subjective Comparison

- The 3rd decoded picture of FoodMarket4, RA, QP=37



Example of Subjective Comparison

- The 3rd decoded picture of FoodMarket4, RA, QP=37



Detailed Results

All Intra Main10										
	Over VTM-1.0					Over BMS-1.0				
	Y	U	V	EncT	DecT	Y	U	V	EncT	DecT
Class A1	0.00%	0.00%	0.00%	100%	100%	0.00%	0.00%	0.00%	100%	99%
Class A2	0.00%	0.00%	0.00%	101%	100%	0.00%	0.00%	0.00%	100%	104%
Class B	0.00%	0.00%	0.00%	100%	100%	0.00%	0.00%	0.00%	100%	100%
Class C	0.00%	0.00%	0.00%	100%	101%	0.00%	0.00%	0.00%	99%	100%
Class E	0.00%	0.00%	0.00%	100%	100%	0.00%	0.00%	0.00%	100%	100%
Overall	0.00%	0.00%	0.00%	100%	100%	0.00%	0.00%	0.00%	100%	101%
Class D	0.00%	0.00%	0.00%	101%	100%	0.00%	0.00%	0.00%	100%	101%

Random Access Main 10										
	Over VTM-1.0					Over BMS-1.0				
	Y	U	V	EncT	DecT	Y	U	V	EncT	DecT
Class A1	-0.10%	-0.04%	-0.01%	100%	100%	-0.06%	-0.09%	0.02%	99%	99%
Class A2	-0.02%	0.00%	-0.02%	100%	100%	0.01%	-0.01%	0.01%	100%	100%
Class B	0.01%	0.02%	0.00%	100%	100%	-0.01%	-0.03%	-0.04%	100%	100%
Class C	0.00%	-0.04%	-0.01%	100%	101%	0.02%	-0.06%	-0.07%	100%	99%
Overall	-0.02%	-0.01%	-0.01%	100%	100%	-0.01%	-0.04%	-0.03%	100%	100%
Class D	0.00%	0.00%	0.00%	101%	100%	0.00%	0.00%	0.00%	100%	100%

Low delay B Main10										
	Over VTM-1.0					Over BMS-1.0				
	Y	U	V	EncT	DecT	Y	U	V	EncT	DecT
Class B	-0.01%	0.05%	0.02%	100%	100%	-0.02%	-0.29%	0.08%	100%	99%
Class C	0.01%	0.12%	0.14%	100%	99%	0.00%	0.04%	0.05%	100%	100%
Class E	-0.01%	0.00%	0.01%	100%	99%	-0.15%	-0.25%	-0.64%	100%	100%
Overall	0.00%	0.06%	0.06%	100%	100%	-0.04%	-0.17%	-0.11%	100%	100%
Class D	0.01%	0.01%	0.43%	101%	99%	-0.01%	0.07%	-0.11%	101%	100%

Summary

- A bugfix is proposed to apply deblocking to maximum TB boundaries that do not coincide with any CB boundaries
- The BD-rate, encoding time, and decoding time changes are negligible
- The fix is essential to the deblocking filter sub-CE



everyday genius