

JCTVC-W0089

HDR CE2-related: ETM with input SDR

Some illustrations

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technicolor

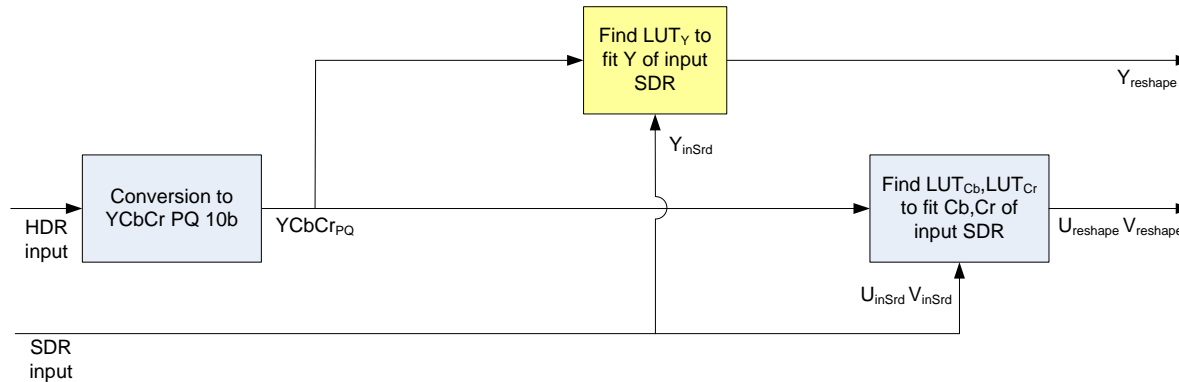


Experiment purpose

Preliminary work to evaluate ability of ETM to produce a reshape signal aiming at matching an input SDR

- Based on CE2-b.1 software
- Check conformity of produced reshaped content to the input SDR
- No test made yet on HDR compression

CE2-b.1 changes to ETM

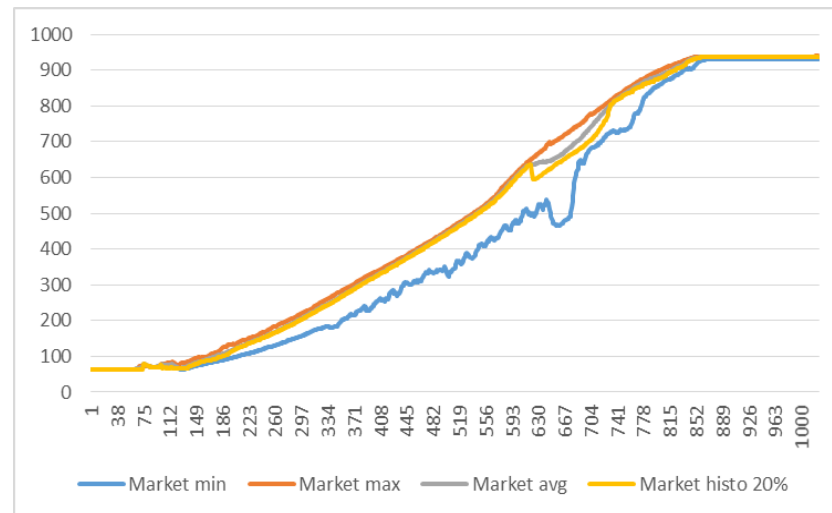
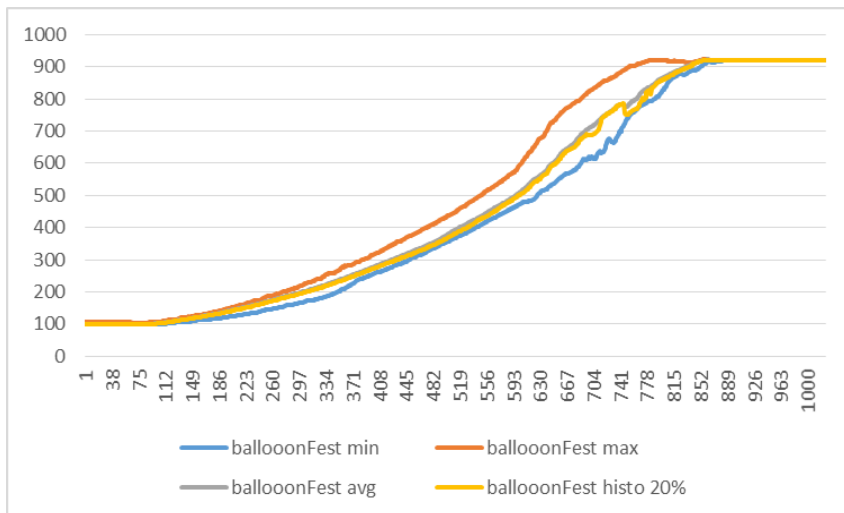


Y_{reshape} PWP model parameters tuned to fit Y_{inSdr}

■ 2 algos tested: Least Mean Squares, Histogram-based robust estimation

UV_{reshape} PWL model parameters tuned to fit UV_{inSdr} with cross-plane reshaping

$$(C_{\text{reshape}} - 512) = 1 / \text{LUT}_C[Y_{\text{reshape}}] * (C_{\text{pq}} - 512) \quad \text{close to } (C_{\text{inSdr}} - 512)$$



Left graded SDR, right top LMS, right bottom histo



Left graded SDR, right top LMS, right bottom histo



Left graded SDR, right top LMS, right bottom histo



Left graded SDR, right top LMS, right bottom histo



Left graded SDR, right top LMS, right bottom histo



Left graded SDR, right top LMS, right bottom histo

