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| *Title:* | **Cross-check of JCTVC-R0228 on Run-length coding for palette prediction (non-SCCE3)** | | |
| *Status:* | Input Document to JCT-VC | | |
| *Purpose:* | Report | | |
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# Abstract

This document reports the crosscheck results for non-SCCE3 proposal JCTVC-R0228. JCTVC-R0228 proposed to use run-length coding for those flags indicating if the palette entry is predicted from palette table predictor. It is compared with the single level binary tree coding method applied in SCCE3 test A.8 and SCCE3 test C4v3. The source code provided by the proponents was verified to be consistent with the description in JCTVC-R0228. The rate-distortion performance was evaluated for SCCE3 test conditions JCTVC-Q1123 and matches those provided in JCTVC-R0228.

# Introduction

JCTVC-R0228 [2] proposed a run-length coding method for those flags indicating whether the palette entry is predicted from the palette table predictor or not. There are two tests. Test one is to compare the proposed method with SCCE3 test A.8 [3]. Test two is to compare the proposed method with SCCE3 test C4v3. Both tests have two settings, respectively, by setting the palette predictor size to 64 and 128.

# Simulation results

The results of R0228 test1 and test2 with two settings are cross-checked according to SCCE3 test conditions [1] and based on the software provide by proponents. The detailed results can be found in the attached excel datasheets. It is reported that these results match those provided by the proponents.

# References

1. Y.-W. Huang, P. Onno, R. Joshi, R. Cohen, X. Xiu, Z. Ma, “HEVC Screen Content Core Experiment 3 (SCCE3): Palette mode”, JCTVC-Q1123, Apr. 2014.

1. [V. Seregin](mailto:vseregin@qti.qualcomm.com), M. Karczewicz, W. Pu, R. Joshi, J. Sole, “Non-SCCE3: Run-length coding for palette predictor”, JCTVC-R0228, Jul. 2014.
2. M. Karczewicz, W. Pu, V. Seregin, R. Joshi, and J. Sole, “SCCE3: Test A.8 – Improvements on Palette Prediction Vector Signaling”, JCTVC-R0063, 18th Meeting: Sapporo, JP, 30 June – 9 July 2014.