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| *Title:* | **Cross-check report of JCTVC-R0229 on palette predictor resetting (non-SCCE3)** | | |
| *Status:* | Input Document to JCT-VC | | |
| *Purpose:* | Report | | |
| *Author(s) or Contact(s):* | Yuwen He, Yan Ye 9710 Scranton Rd, #250 San Diego, CA 92121, USA | Tel: Email: | +1-858-210-4819/-4803 [yuwen.he@interdigital.com](mailto:yuwen.he@interdigital.com) [yan.ye@interdigital.com](mailto:yan.ye@interdigital.com) |
| *Source:* | InterDigital Communications, Inc. | | |

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# Abstract

This document reports the crosscheck results for non-SCCE3 proposal JCTVC-R0229. JCTVC-R0229 compared various palette predictor resetting methods, and proposed a signaling method for palette predictor resetting. The source code provided by the proponents was verified to be consistent with the description in JCTVC-R0229. The rate-distortion performance was evaluated for SCCE3 test conditions JCTVC-Q1123 and matches those provided in JCTVC-R0229.

# Introduction

JCTVC-R0229 [2] proposed a method to apply different palette predictor resetting methods with additional signaling. Three palette predictor resetting methods are compared based on SCCE3-C4v3 software.

1. No palette predictor resetting at the beginning of each CTU row (the same as SCCE3-C4v3)
2. Palette predictor resetting at the beginning of each CTU row ( referred as Test 1)
3. Flexible palette predictor resetting (referred as Test 2): if no color in the palette of current CU is predicted from its predictor, then the predictor will be reset

# Simulation results

R0229 test1 and test2 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 perfectly 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), R. Joshi, M. Karczewicz, W. Pu, J. Sole, “Non-SCCE3: Palette predictor resetting”, JCTVC-R0229, Jul. 2014.