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| *Title:* | **CE5: Cross-verification report on investigation of maximum palette predictor size (JCTVC-S0189)** | | |
| *Status:* | Input Document to JCT-VC | | |
| *Purpose:* | Cross-verification report | | |
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| *Source:* | Qualcomm Incorporated | | |

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# Abstract

This contribution presents the results of a cross-verification performed by Qualcomm on investigation of maximum palette predictor size (JCTVC-R0189). The BD-rate performance results match those provided by the proponent. The implemented algorithm agrees with the proposal.

# Introduction

SCM2.0 uses maximum palette size of 31 and maximum palette predictor size of 64. In JCTVC-S0189, the BD-rate impact of increasing the maximum palette predictor size to 96 and 128 is investigated. It is proposed that the maximum palette predictor size is signalled in the PPS.

The method was implemented on top of SCM2.0. The implemented algorithm agrees with the description in JCTVC-S0189.

# Results

The proposed method was tested for lossy and lossless configuration under common test conditions (JCTVC-R1015). The simulation platform is a homogenous LINUX cluster consisting of Intel(R) XEON CPUs.The performance is compared to SCM2.0 in terms of BD-rates.

Table 1 shows the BD-rate performance for maximum palette predictor sizes of 96 (left) and 128 (right) for the All-Intra lossy configuration. Table 2 provides the corresponding BD-rate results for the All-Intra lossless configuration. For results of other configurations, please refer to the attached spreadsheets.



Table 1: BD-rate performance for maximum palette size of 96 (left) and 128 (right) for All-Intra lossy configuration (anchor SCM2.0)



Table 2: BD-rate performance for maximum palette size of 96 (left) and 128 (right) for All-Intra lossless configuration (anchor SCM2.0)

# Conclusions

The results of JCTVC-N0189 on investigation of maximum palette predictor size have been verified. The implemented algorithm agrees with the description in JCTVC-N0189. The BD-rates match exactly with those provided by the proponents.