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| *Title:* | **Non-SCE3.4: Crosschecking of Simplified Generalized Combined Prediction (JCTVC-M0222)** | | |
| *Status:* | Input Document to JCT-VC | | |
| *Purpose:* | Proposal | | |
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# Abstract

This contribution reports crosschecking results of Test 1 (3GCP) in JCTVC-M0222 on Simplified Generalized Combined Prediction SHVC. The simulation results reportedly matched those provided by the proponents.

# Introduction

In JCTVC-M0222, generalized combined prediction (GCP) proposed in JCTVC-M0221 is simplified by restricting the application of GCP.

In test 1 (3GCP), GCP can only be applied to luma blocks larger than a threshold (8x8 for uni-directional prediction and 16x16 for bi-directional prediction).

# Experimental results

We received the source code from the proponents, implemented in SHM-1.0, and did a quick code study to verify that the proposed method was implemented as described. We used the common conditions [1] in our experiments and ran simulations for the cases of RA, LDP and LDB. The results match what was provided by the proponents and are summarized as follows:



# Conclusion

In this contribution, we have presented the results of our cross-check of JCTVC-M0222. The implemented algorithm is in line with the proponent’s description, and the simulation results match that provided by the proponents.

# References

1. [X. Li](mailto:lxiang@qti.qualcomm.com), [J. Boyce](mailto:jill@vidyo.com), [P. Onno](mailto:patrice.onno@crf.canon.fr), [Y. Ye](mailto:yan.ye@interdigital.com), “Common SHM test conditions and software reference configurations”, JCTVC-L1009, Geneva, Switzerland, 14–23 Jan. 2013.