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| **Joint Collaborative Team on 3D Video Coding Extension Development**  **of ITU-T SG 16 WP 3 and ISO/IEC JTC 1/SC 29/WG 11**  10th Meeting: Strasbourg, FR, 18–24 Oct. 2014 | Document: JCT3V-J0097 |

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| *Title:* | Cross-check on Simplification of chroma IC(JCT3V-J0050) | | | |
| *Status:* | Input Document | | | |
| *Purpose:* | Proposal | | | |
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| *Source:* HiSilicon Technologies | | |  | |

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# Abstract

This contribution document reports the cross verification results of proposal JCT3V-J0097. The source code was implemented based on HTM-12.0. We compiled, inspected, and ran the code of these cases with CTC configurations. The cross-check has been completed successfully and the results match with the data provided by proponents of JCT3V-J0097.

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# Test description and crosscheck results

This document reports the cross-check results of JCT3V-J0097. There are two methods in the proposal,

1.1 Test1: Disabling chorma IC.

The setting of the test case is set as follow:

#define LGE\_IC\_CHROMA\_OFF 1

1.2 Test 2: Use offset model for chroma IC

The setting of the test case is set as follow:

#define LGE\_IC\_OFFSET 1

The encoder and decoder reconstructed YUV files generated from the above settings are matched. The experimental results of the rate-distortion are illustrated in Table 1 and Table 2, which shows the test1 and test2 results of the CTC configurations respectively. These results match the BD-rate results provided by proponents of JCT3V-J0097.

Table 1: Test 1 BD rate results for 3-view case under CTC

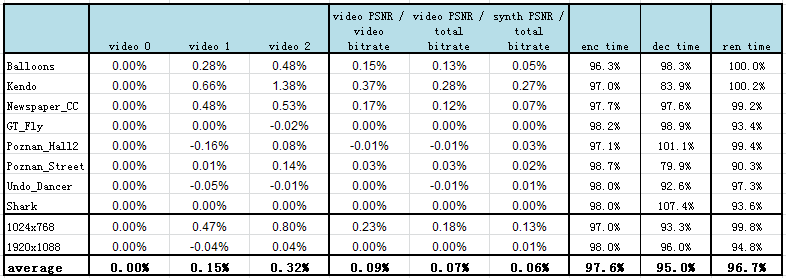
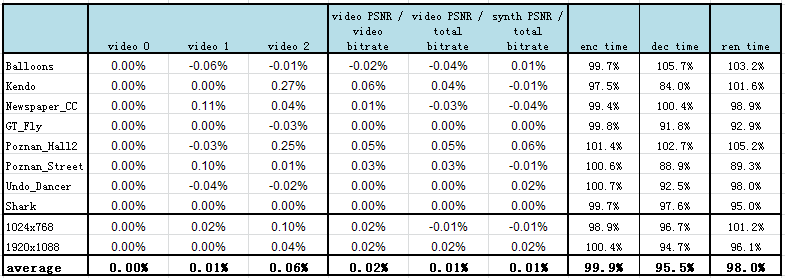


Table 2: Test2 BD rate results for 3-view case under CTC



# Conclusion

The BD-rates results presented by LG in JCT3V-J0097 are confirmed.

# References

1. J. Nam, S. Yea, “Simplification of chroma IC”, JCT3V-J0097, 10th Meeting: Strasbourg, FR, 18–24 Oct. 2014