|  |  |
| --- | --- |
| **Joint Collaborative Team on Video Coding (JCT-VC)**  **of ITU-T SG 16 WP 3 and ISO/IEC JTC 1/SC 29/WG 11**  20th Meeting: Geneva, CH, 10–18 Feb. 2015 | Document: JCTVC-T0184 |

|  |  |  |  |
| --- | --- | --- | --- |
| *Title:* | **Cross-verification of JCTVC-T0050: Non-CE2: IBC encoder improvements and combinations with CE2** | | |
| *Status:* | Input Document to JCT-VC | | |
| *Purpose:* | Information | | |
| *Author(s) or Contact(s):* | Xiaoyu Xiu, Yuwen He, Yan Ye 9710 Scranton Rd, #250 San Diego, CA 92121, USA | Tel: Email: | + 1-858-210-4830 [Xiaoyu.Xiu@InterDigital.com](mailto:Xiaoyu.Xiu@InterDigital.com)  Yuwen.He@InterDigital.com  [Yan.Ye@InterDigital.com](mailto:Yan.Ye@InterDigital.com) |
| *Source:* | InterDigital Communications, LLC | | |

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Abstract

This document presents the cross-verification results of JCTVC-T0050 onIBC encoder improvements and combinations with CE2. It is verified that the implementation is consistent with the algorithm described in the contribution document and all simulation results exactly match that provided by the proponent.

# Introduction

In JCTVC-T0050, one encoder-only improvement method was proposed to the IBC implementation in SCM-3.0. Specifically, a couple early terminations on IBC RD process, including the early termination on fast IBC test and the early termination on normal IBC test, are proposed to be removed, such that the number of tested IBC cases are increased. In addition, the proposed encoder-only method is also tested with the combination of several methods that are currently studied in CE2.

# Results

It is verified that the software implementation is consistent with the algorithm described in JCTVC-T0050 and all simulation results exactly match that provided by the proponent. The detailed simulation results can be found in the attached spreadsheets.

# References

1. G. Laroche, G. Malard, T. Poirier, C. Gisquet and P. Onno, Non-CE2: IBC encoder improvements and CE2 combinations, JCTVC-T0050, Feb. 2015, Geneva, Switzerland.