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| **Joint Collaborative Team on Video Coding (JCT-VC)**  **of ITU-T SG 16 WP 3 and ISO/IEC JTC 1/SC 29/WG 11**  19th Meeting: Strasbourg, FR, 17–24 Oct 2014 | Document: JCTVC-S0126 |

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| *Title:* | **Cross check of Non-CE4 Intra Line Copy with Extended Full-frame Search for Test A** | | |
| *Status:* | Input Document to JCT-VC | | |
| *Purpose:* | Report | | |
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| *Source:* | MediaTek | | |

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# Abstract

This documents reports a crosscheck for Non-CE4 Intra Line Copy with Extended Full-frame Search for Test A (JCTVC-S0137). The source code provided by the proponents was verified to be consistent with the description in the proposal. The rate-distortion performance was evaluated and matches the one provided in JCTVC-S0137.

# Introduction

JCTVC-S0137 [2] describes an encoder technique that enables extended Full Frame search for regular IBC PUs (8x4, 4x8 and 4x4) using hash based search. It also enables the extended search range for the Intra Line Copy to Full Frame (encoder only).

# Simulation results

The performance of the JCTVC-S0137 is cross-checked according to CE4 test conditions [1] and is summarized below. The anchor in the test is the extended Full Frame Search for regular IBC Pus, the tested method in the test is the enxtended search range for the Intra Line Copy to Full Frame. The detailed results can be found in the attached excel datasheets. Note that the runtime information in this document is not reliable.

Table 1. Average BD rate reduction for subset 3 lossless coding

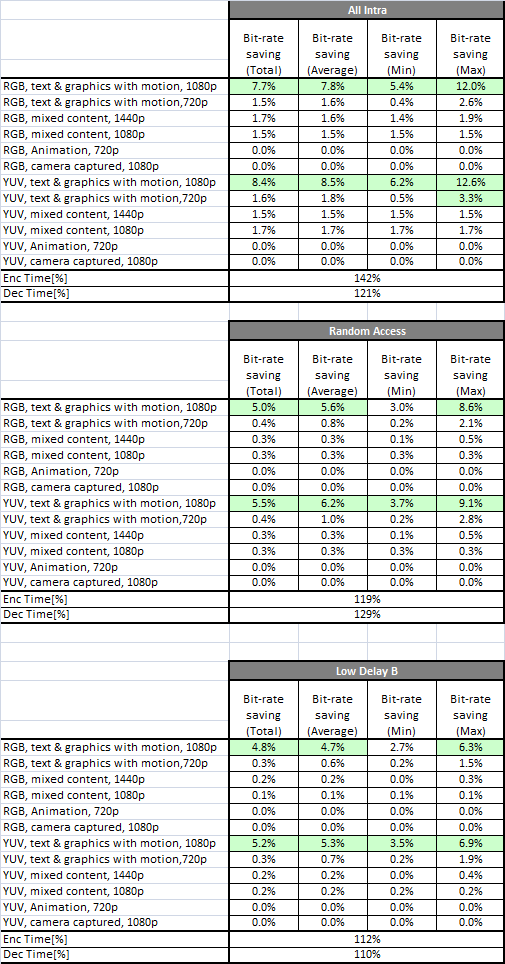
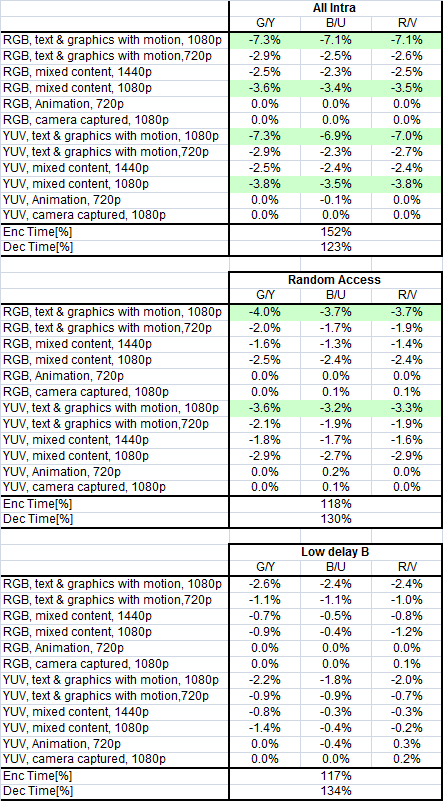


Table 2. Average BD rate reduction for subset 3 lossy coding



# References

1. R.-L. Liao, [C.-C. Chen](mailto:cheerchen.cs98g@g2.nctu.edu.tw), C.-W. Kuo,[W.-H. Peng](mailto:wpeng@cs.nctu.edu.tw), H.-M. Hang , “Non-CE4 Intra Line Copy with Extended Full-frame Search for Test A”, JCTVC-S0137, Strasbourg, FR, Oct. 2014.
2. H. Yu, R. Cohen, K. Rapaka, J. Xu, “Common conditions for screen content coding tests” JCTVC-R1015, Sapporo, JP, 30 June – 9 July 2014.