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| **Joint Collaborative Team on Video Coding (JCT-VC)**  **of ITU-T SG16 WP3 and ISO/IEC JTC1/SC29/WG11**  12th Meeting: Geneva, CH, 14–23 Jan. 2013 | Document: JCTVC-L0433 |

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| *Title:* | Cross check of JCTVC-L0213 Differential coding for RefIdx based scalability | | |
| *Status:* | Input Document to JCT-VC | | |
| *Purpose:* | Cross-check report | | |
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| *Source:* | Vidyo | | |

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# Abstract

This contribution provides a cross-check report for JCTVC-L0213 Differential coding for RefIdx based scalability. The RA cases were tested and no mismatches were found.

# Test description and results

Source code was provided by the proponents of JCTVC-L0213, which was compiled and run by Vidyo, using the settings below.

#define REF\_IDX\_FRAMEWORK                1      ///< inter-layer reference framework

#define REF\_IDX\_ME\_AROUND\_ZEROMV         1      ///< added ME around zero MV for inter-layer reference picture

Only the RA test cases were tested. No mismatches were found from the data provided in JCTVC-L0213.

The experimental data is summarized below, with details in the attached spreadsheet.

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|  | **RA HEVC 2x** | | | **RA HEVC 1.5x** | | |  | | |
|  | Y | U | V | Y | U | V |  |  |  |
| Class A | -1.2% | -2.4% | -2.5% |  |  |  |  |  |  |
| Class B | -0.6% | -2.4% | -2.7% | -1.0% | -2.8% | -3.0% |  |  |  |
| **Overall (EL+BL)** | -0.8% | -2.4% | -2.6% | -1.0% | -2.8% | -3.0% |  |  |  |
| **Overall (EL)** | -1.8% | -4.4% | -4.8% | -3.5% | -7.1% | -7.9% |  |  |  |
| Enc Time[%] | 124.1% | | | 124.1% | | |  | | |
| Dec Time[%] | 112.9% | | | 112.2% | | |  | | |
| Enc Mem[%] | #DIV/0! | | | #DIV/0! | | |  | | |
| BL Match | Matched | | | Matched | | |  | | |