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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**  10th Meeting: Stockholm, SE, 11–20 July 2012 | Document: JCTVC-J0162 |

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| *Title:* | **Crosscheck for JCTVC-J0033** | | |
| *Status:* | Input Document to JCT-VC | | |
| *Purpose:* | Information | | |
| *Author(s) or Contact(s):* | Hendry Byeong Moon Jeon  221 Yangjae-dong, Seocho-gu, Seoul, Korea | Tel: Email: | -  [hendry.hendry@lge.com](mailto:hendry.hendry@lge.combm.jeon@lge.com)  [bm.jeon@lge.com](mailto:hendry.hendry@lge.combm.jeon@lge.com) |
| *Source:* | LG Electronics | | |

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# Abstract

This contribution reports the crosscheck result for JCTVC-J0033. It is confirmed that the reported results in JCTVC-J0033 match with the result of the crosschecker. The implementation has also been inspected and it is as described in the proposal.

It is reported that the proposed item can be considered as clean up for adoption, which constrains a wave front parallel processing’s substream to be one LCU row at most, that had been agreed in the 9th JCT-VC meeting.

# Introduction

Orange Labs provided modified source code as described in JCTVC-J0033, which is tested under the appropriate conditions for proposal in this category. In this crosscheck, we compare the results we got with the given software running on our machine and the results provided by the proponent. The bitrates and PSNR are exactly the same.

We have given the problem described and solution in the JCTVC-J0033. In our opinion, the proposed item can be considered as clean up for adoption that had been agreed in the 9th JCT-VC meeting.

# Experiment results

The crosscheck results running from our experiments are as shown in the below tables.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **All Intra Main** | | | **All Intra HE10** | | |
|  | Y | U | V | Y | U | V |
| Class A | -6.3% | -6.3% | -6.4% | -6.3% | -6.3% | -6.3% |
| Class B | -4.5% | -4.5% | -4.5% | -4.5% | -4.5% | -4.5% |
| Class C | -2.2% | -2.1% | -2.1% | -2.2% | -2.2% | -2.2% |
| Class D | -1.0% | -1.0% | -1.0% | -1.0% | -1.0% | -1.0% |
| Class E | -3.4% | -3.4% | -3.4% | -3.4% | -3.3% | -3.3% |
| **Overall** | -3.5% | -3.5% | -3.5% | -3.5% | -3.5% | -3.5% |
|  | -3.5% | -3.5% | -3.5% | -3.5% | -3.5% | -3.5% |
| Class F | -3.0% | -3.0% | -3.0% | -3.0% | -3.0% | -3.0% |
| Enc Time[%] | 101% | | | 101% | | |
| Dec Time[%] | #NUM! | | | #NUM! | | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Random Access Main** | | | **Random Access HE10** | | |
|  | Y | U | V | Y | U | V |
| Class A | -6.3% | -6.3% | -6.3% | -6.3% | -6.3% | -6.3% |
| Class B | -4.4% | -4.4% | -4.4% | -4.4% | -4.4% | -4.4% |
| Class C | -1.9% | -1.9% | -1.9% | -1.9% | -1.9% | -1.9% |
| Class D | -0.7% | -0.7% | -0.7% | -0.7% | -0.7% | -0.7% |
| Class E |  |  |  |  |  |  |
| **Overall** | -3.4% | -3.4% | -3.4% | -3.4% | -3.4% | -3.4% |
|  | -3.4% | -3.4% | -3.4% | -3.4% | -3.4% | -3.4% |
| Class F | -2.8% | -2.8% | -2.8% | -2.8% | -2.8% | -2.8% |
| Enc Time[%] | 100% | | | 100% | | |
| Dec Time[%] | #NUM! | | | #NUM! | | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Low delay B Main** | | | **Low delay B HE10** | | |
|  | Y | U | V | Y | U | V |
| Class A |  |  |  |  |  |  |
| Class B | -4.5% | -4.6% | -4.6% | -4.5% | -4.6% | -4.6% |
| Class C | -1.8% | -1.9% | -1.9% | -1.9% | -1.9% | -1.9% |
| Class D | -0.6% | -0.6% | -0.6% | -0.6% | -0.6% | -0.6% |
| Class E | -1.6% | -1.8% | -1.8% | -1.6% | -1.8% | -1.8% |
| **Overall** | -2.3% | -2.4% | -2.4% | -2.3% | -2.4% | -2.4% |
|  | -2.3% | -2.4% | -2.4% | -2.3% | -2.4% | -2.4% |
| Class F | -2.6% | -2.7% | -2.7% | -2.6% | -2.7% | -2.7% |
| Enc Time[%] | 100% | | | 100% | | |
| Dec Time[%] | #NUM! | | | #NUM! | | |

# Patent rights declaration(s)

**LG Electronics does not have current or pending patent rights relating to the technology described in this contribution and, conditioned on reciprocity, is prepared to grant licenses under reasonable and non-discriminatory terms as necessary for implementation of the resulting ITU-T Recommendation | ISO/IEC International Standard (per box 2 of the ITU-T/ITU-R/ISO/IEC patent statement and licensing declaration form).**