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| *Title:* | **Crosscheck of SAO CABAC Context Initialisation in JCTVC-J0062** | | |
| *Status:* | Input Document to JCT-VC | | |
| *Purpose:* | Information | | |
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# Abstract

This contribution reports the crosscheck result for JCTVC-J0062. While the JCTVC-J0062 reports experiment results from several test cases, these contribution only provide crosschecks results for HM7-ref vs proposal-ref and HM7-WPP vs proposal-WPP.

It is confirmed that the reported results in JCTVC-J0062 match with the result of the crosschecker. The implementation has also been inspected and it is as described in the proposal.

# Introduction

Orange Labs provided modified source code as described in JCTVC-J0062, which is tested under the appropriate conditions for proposal in this category. While the JCTVC-J0062 reports experiment results from several test cases, these contribution only provide crosschecks results for HM7-ref vs proposal-ref and HM7-WPP vs proposal-WPP.

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.

# Experiment results

The crosscheck results running from our experiments for HM7-ref vs proposal-ref are as shown in the below tables.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **All Intra Main** | | |
|  | Y | U | V |
| Class A | 0.0% | 0.0% | 0.0% |
| Class B | 0.0% | 0.0% | 0.0% |
| Class C | 0.0% | 0.0% | 0.0% |
| Class D | 0.0% | 0.0% | 0.0% |
| Class E | 0.0% | 0.0% | 0.0% |
| **Overall** | 0.0% | 0.0% | 0.0% |
|  | 0.0% | 0.0% | 0.0% |
| Class F | 0.0% | 0.0% | 0.0% |
| Enc Time[%] | 100% | | |
| Dec Time[%] | #NUM! | | |
|  |  |  |  |
|  | **Random Access Main** | | |
|  | Y | U | V |
| Class A | 0.0% | -0.3% | -0.1% |
| Class B | 0.0% | -0.1% | -0.1% |
| Class C | -0.1% | 0.0% | 0.0% |
| Class D | -0.5% | -0.1% | -0.1% |
| Class E |  |  |  |
| **Overall** | -0.2% | -0.1% | -0.1% |
|  | -0.2% | -0.1% | -0.1% |
| Class F | 0.0% | -0.1% | -0.1% |
| Enc Time[%] | 100% | | |
| Dec Time[%] | #NUM! | | |
|  |  |  |  |
|  | **Low delay B Main** | | |
|  | Y | U | V |
| Class A |  |  |  |
| Class B | 0.1% | 0.1% | 0.1% |
| Class C | 0.0% | 0.4% | 0.3% |
| Class D | -0.2% | 0.8% | 1.9% |
| Class E | -0.2% | 0.0% | -0.4% |
| **Overall** | -0.1% | 0.3% | 0.5% |
|  | -0.1% | 0.3% | 0.5% |
| Class F | 0.1% | -0.2% | 0.1% |
| Enc Time[%] | 100% | | |
| Dec Time[%] | #NUM! | | |

The crosscheck results running from our experiments for HM7-WPP vs proposal-WPP are as shown in the below tables.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **All Intra Main** | | |
|  | Y | U | V |
| Class A | 0.0% | 0.0% | 0.0% |
| Class B | 0.0% | 0.0% | 0.0% |
| Class C | 0.0% | 0.0% | 0.0% |
| Class D | 0.0% | 0.0% | 0.0% |
| Class E | 0.0% | 0.0% | 0.0% |
| **Overall** | 0.0% | 0.0% | 0.0% |
|  | 0.0% | 0.0% | 0.0% |
| Class F | 0.0% | 0.0% | 0.0% |
| Enc Time[%] | 100% | | |
| Dec Time[%] | #NUM! | | |
|  |  |  |  |
|  | **Random Access Main** | | |
|  | Y | U | V |
| Class A | -0.1% | -0.1% | -0.1% |
| Class B | -0.3% | -0.3% | -0.4% |
| Class C | -0.5% | -0.4% | -0.4% |
| Class D | -0.8% | -0.6% | -0.5% |
| Class E |  |  |  |
| **Overall** | -0.4% | -0.4% | -0.3% |
|  | -0.4% | -0.4% | -0.3% |
| Class F | -0.5% | -0.5% | -0.5% |
| Enc Time[%] | 100% | | |
| Dec Time[%] | #NUM! | | |
|  |  |  |  |
|  | **Low delay B Main** | | |
|  | Y | U | V |
| Class A |  |  |  |
| Class B | -0.1% | 0.0% | 0.2% |
| Class C | -0.2% | 0.2% | 0.3% |
| Class D | -0.4% | 0.6% | 1.0% |
| Class E | -1.0% | -1.3% | -1.3% |
| **Overall** | -0.4% | -0.1% | 0.2% |
|  | -0.4% | -0.1% | 0.1% |
| Class F | -0.2% | -0.2% | -0.2% |
| Enc Time[%] | 100% | | |
| Dec Time[%] | #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).**