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| *Title:* | **CE5: Crosscheck of Sony's contribution (JCTVC-E319) on LCEC transform coefficient coding** | | |
| *Status:* | Input Document to JCT-VC | | |
| *Purpose:* | Proposal | | |
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# Abstract

This contribution reoprts our cross-verification results of “Full coding of 16x16 and 32x32 ” in Sony’s CE5 contribution on LCEC transform coefficient coding (JCTVC-E319). Our results confirmed the RD data reporeted in JCTVC-E319. Relative encoding and decoding time have slight deviation. Considering the difference of operating the environments, results are basically confirmed.

# Introduction

This contribution is a report of verification results of “Full coding of 16x16 and 32x32 ” in JCTVC-E319. The test conditions are specified in JCTVC-D605.

# Experimental Results

Our encoding environment is using 64bit linux cluster and decoding was performed on a sinlge 64 bit windows PC. The RD data exactly match “**Table-2:** Results for Full coding of 16x16 and 32x32 blocks” in JCTVC-E319.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Intra LoCo | | |  | Random access LoCo |  | Low delay LoCo | | |
| Y BD-rate | U BD-rate | V BD-rate | Y BD-rate | U BD-rate | V BD-rate | Y BD-rate | U BD-rate | V BD-rate |
| Class A | -6.1 | 0.6 | 0.2 | -3.3 | 11.9 | 9.6 |  |  |  |
| Class B | -2 | -0.9 | -0.7 | -1.5 | 0.5 | 0.2 | -0.9 | 1.4 | 1.6 |
| Class C | -0.7 | -0.4 | -0.3 | -0.6 | 0.1 | 0.4 | -0.6 | 0.5 | 0.5 |
| Class D | -0.9 | -0.3 | -0.6 | -0.4 | 0.3 | -0.3 | -0.2 | 0.4 | 0.5 |
| Class E | -2.3 | -1.3 | -1.4 |  |  |  | -0.3 | 1.3 | 1.4 |
| All | -2.4 | -0.4 | -0.5 | -1.5 | 3 | 2.3 | -0.5 | 0.9 | 1 |
| Enc Time[%] | 118% | | | 105% | | | 104% | | |
| Dec Time[%] | 100% | | | 99% | | | 101% | | |

Table Cross-check results of “Full coding of 16x16 and 32x32” in JCTVC-E319

# Patent rights declaration(s)

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