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| *Title:* | **CE6.a: Cross Check of Tests 9 and 10 for BUDI Mode (JCTVC-F509)** | | |
| *Status:* | Input Document to JCT-VC | | |
| *Purpose:* | Information | | |
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# Abstract

This document contains cross check results for CE6.a Tests 9 and 10 for BUDI Mode (JCTVC-F509). The BD-rate results match JCTVC-F509. The encoding and decoding times are similar.

# Cross Check Results for Tests 9 and 10 of CE6.a BUDI

The tests are specified as follows:

* Test 9: LUT-based different combinations of Intra mode signaling for (DC,BUDI,Planar)=(6,9,2)
* Test 10: LUT-free different combinations of Intra mode signaling for (DC,BUDI,Planar)=(6,9,2)

Table 1 and Table 2 contain the BD-rate results from Tests 9 and 10, respectively, compared to the HM3.0 anchor. These results match the BD-rate results in JCTVC-F509. The encoding time differences are within the execution time variability of the computing cluster. The decoding times are measured on one CPU and are similar to the timings in JCTVC-F509.

Table BD-rate results for Test 9

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | All Intra HE | | | All Intra LC | | |
| Y | U | V | Y | U | V |
| Class A | -0.3 | 0.1 | 0.1 | -0.3 | 0.2 | 0.2 |
| Class B | -0.2 | 0.0 | 0.1 | -0.3 | 0.1 | 0.2 |
| Class C | -0.2 | 0.0 | 0.1 | -0.3 | 0.0 | 0.2 |
| Class D | -0.2 | 0.1 | 0.1 | -0.2 | 0.2 | 0.2 |
| Class E | -0.3 | 0.1 | 0.2 | -0.3 | 0.2 | 0.3 |
| **Overall** | **-0.2** | **0.1** | **0.1** | **-0.3** | **0.1** | **0.2** |
| Enc Time[%] | 95% | | | 95% | | |
| Dec Time[%] | 101% | | | 100% | | |

Table BD-rate results for Test 10

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | All Intra HE | | | All Intra LC | | |
| Y | U | V | Y | U | V |
| Class A | -0.2 | 0.1 | 0.1 | -0.2 | 0.2 | 0.2 |
| Class B | -0.2 | 0.0 | 0.1 | -0.3 | 0.1 | 0.2 |
| Class C | -0.2 | 0.0 | 0.1 | -0.2 | 0.1 | 0.2 |
| Class D | -0.1 | 0.2 | 0.2 | -0.1 | 0.2 | 0.2 |
| Class E | -0.2 | 0.1 | 0.3 | -0.3 | 0.3 | 0.3 |
| **Overall** | **-0.2** | **0.1** | **0.1** | **-0.2** | **0.2** | **0.2** |
| Enc Time[%] | 97% | | | 92% | | |
| Dec Time[%] | 100% | | | 101% | | |

# Conclusion

The BD-rate results match the results reported in JCTVC-509 for tests 9 and 10. The encoding and decoding times are similar.