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| *Title:* | **HDR CE2: cross-check report of CE2.b-2, CE2.c and CE2.d experiments (JCTVC-W0094)** | | |
| *Status:* | Input Document to JCT-VC | | |
| *Purpose:* | Information | | |
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| *Source:* | Technicolor | | |

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# Abstract

This report describes the cross check for joint CE2.b-2, CE2.c and CE2.d experiments, reported in document JCTVC-W0094. These experiments relate to SDR backward compatible configuration, and focus on reshape setting 2 that involves cross-plane colour reshaping. The data distributed by the proponent match with the ones recreated by the cross-checker.

# Introduction

Core experiment CE2.b-2 primarily focuses on CE2.b-2 on SDR backward compatibility using ETM with reshapeSetting 2, involving cross-plane chroma reshaping using one single LUT for both components. In addition, joint optimization of the reshaper and encoder (as CE2.c and CE2.d experiments).

The software package of this CE test was delivered to CE2 participants on Feb. 4nd and results were delivered on Feb. 6th.

The crosscheck includes both a brief software inspection as well as simulation under CTC.

# Software Inspection

The CE test software package is built on top of the current Exploratory Test Model (ETM\_RC\_r1, delivered on January 21, 2016). Changes of source code are clearly indicated by Marco settings. There is no change to the current ETM syntax and inverse reshaping process.

# Simulation results

Simulation is done according to the common test condition and comparison is made against Anchor v.3.2. Linux platform was used to conduct all the jobs of YUV generation, encoding and decoding. The results (bitrate, metrics and md5sum values) are matched with results provided by JCTVC-W0094 proponent.