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| *Title:* | **Cross-Verification of JCTVC-K0154** | | |
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| *Purpose:* | Information | | |
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# Abstract

This contribution is a cross-check document of contribution JCTVC-K0154 on PicOrderCntMsb simplification. We have verified that the source provided by the proponents of JCTVC-K0154 matches their description, whereas running the software on all anchor streams has shown no decoding mismatches.

# Introduction

JCTVC-K0154 proposes a simplification of the computation and specification of the PicOrderCntMsb, without however impacting the original derivation. The proposal also guarantees the computation when either signed or unsigned arithmetic is used. This document reports cross-check results for this contribution.

# Test Settings and Conditions

JCTVC-K0154 was cross-checked using the HM8.0 software on an Intel Core i7 2.5GHz notebook computer, running Mac OS X Mountain Lion (v. 10.8.2). To verify performance, all anchor bitstreams that are available on the BBC ftp site, i.e. <ftp://ftp.kw.bbc.co.uk/hevc/hm-8.0-anchors/>, were downloaded and then decoded using the provided software. Only the decoder was tested.

# Experimental Results/Cross-Check

All 680 anchor bitstreams were successfully decoded without any mismatches. The source code provided by the proponents was also verified and no discrepancy versus the provided text was observed. The source code was added in the file TDecCAVLC.cpp under the directive SIMPLIFY\_POC\_LSB\_CAL. No other issues were observed during compiling or running the software.