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Title: [VCM] Cross-check of m71302

Source: Poznan University of Technology

Authors: Sławomir Rózek, Olgierd Stankiewicz, Sławomir Maćkowiak,
Tomasz Grajek, Maciej Wawrzyniak, Jakub Stankowski, Mateusz
Lorkiewicz, Marek Domański,

Abstract

This document presents the results of crosschecking the “New implementation of Interpolation functions for temporal resampling” [1].

1. Procedure description

We have downloaded and launched the software from the Gitlab repository provided by the proponent [1]. We have performed the encoding and evaluation using the machines with the following specification:

Processor: Intel Core i7-12700K

RAM: 32 GB

GPU: nVidia RTX 4090.

Operating System: Ubuntu 22.04 (updated)

2. Cross-check results and comments

The detailed cross-check results and comparison with the original m71302 results [1] can be found in the attached excel file. All the bitrates match, since the inequalities come from different precision of the stored numbers.

All the metric values match.

The cross-check can be summarized as positive.

References

- [1] Li Fang, Huifen Wang, Qingsu Cheng, Enmin Lu, Yuan Zhang (China Telecom)
“[VCM] New implementation of Interpolation functions for temporal resampling”, doc.
m71302, January 2025, Geneva.