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ISO/IEC JTC 1/SC 29/WG 2
MPEG TECHNICAL REQUIREMENTS**

ISO/IEC JTC 1/SC 29/WG 4 m72433

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Title: [VCM] Cross-check of m72443

Source: Poznan University of Technology

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

Abstract

This document presents the results of crosschecking the “Temporal Prefilter and Postfilter” [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 m72443 results [1] can be found in the attached excel file. For all the cases, where the proponent provides the result, the bitrates match, since the inequalities come from different precision of the stored numbers.

All the differences in the metric values are in the acceptable range.

The computational cross-check can be summarized as positive.

References

- [1] Li Fang, Huifen Wang, Qingsu Cheng, Enmin Lu, Yuan Zhang (China Telecom)
“[VCM] Temporal Prefilter and Postfilter”, doc. m724443, April 2025, online meeting.