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MPEG TECHNICAL REQUIREMENTS**

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Title: [VCM][CE0] Cross-check of revised CE0.4 (m72613)
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Abstract

This document presents the results of crosschecking the CE0.4 experiment m72613 [1] with revised variant of Spatial Resampling tool m72189 [2].

1. Procedure description

We have downloaded the software of the CE0.4 test from the dedicated Gitlab repository. Then, the spatial resampling tool has been disabled and this has been used as a “Test”. 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)

For the “Anchor”, we have used results provided in m72189 (Test) from m72189_VCMRS_0.12_SR_single_vs_anchor.xlsm.

2. Cross-check results

The detailed cross-check results can be found in the attached excel file (VCM_reporting_template_PUT.xlsm). The results match with the document being cross-checked (m72613_[VCM] Revised CE0.4 report based on NEC's updated spatial resampling.xlsm).

The cross-check can be summarized as positive.

References

- [1] Minsuk Kim, Eunbin An, Kwang-deok Seo (Yonsei Univ.) "[VCM] Revised CE0.4 report based on NEC's updated spatial resampling", ISO/IEC JTC 1/SC 29/WG 4 m72613, April 2025, Online
- [2] Kenta Iida, Tatsuji Moriyoshi, Keiichi Chono, "[VCM] Update on spatial resampling software implementation," MPEG doc. m72189, Online, Apr. 2025.