

**Joint Video Experts Team (JVET)
of ITU-T SG 16 WP 3 and ISO/IEC JTC 1/SC
29/WG 11**

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Title: Crosscheck of JVET-T0089:AHG12: Slice based Rice parameter selection for transform skip residual coding

Status: Input document to JVET

Purpose: Proposal

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Source: Sony

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Abstract

This document reports a cross check of contribution JVET-T0089 by Kwai which proposes changing the method for the selection of Rice parameters for transform skip residual coding (TSRC). The source code was studied and matched with the proposal. Experiments confirmed results for 12 and 16 bit AI.

Cross check procedure

The source code for JVET-T0085 was supplied by Kwai and compiled using gcc-4.8.5. The experiment was run on a cluster of Intel i7-6700T CPUs under openSUSE 42.1 and the results were compared against an anchor of VTM 10.0 with high bit depth processing enabled. The tests were run using the test conditions defined in JVET-T0047 with extended precision disabled.

The source code modifications were compared to the proposal and found to match.

Results

Built from JVET-T0102.docx

LINKS

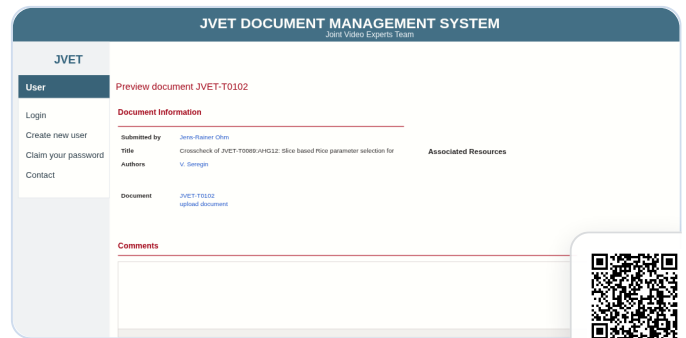
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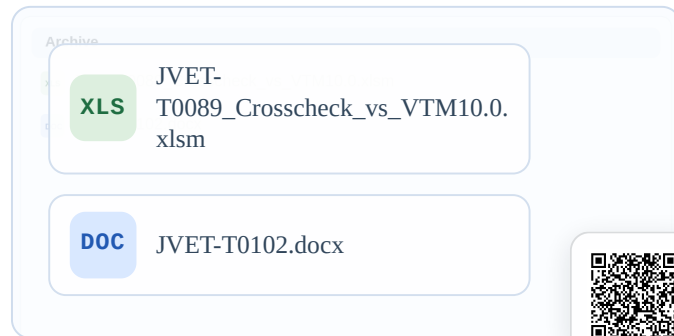
SOURCE

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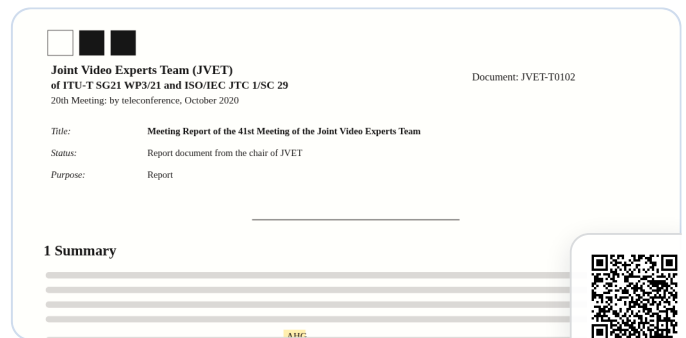
ARCHIVE

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https://jvet-experts.org/doc_end_user/documents/20_Teleconference/wg11/JVET-T0102-v1.zip

MEETING NOTES

external meeting notes

https://www.itu.int/wftp3/av-arch/jvet-site/2020_10_T_Virtual/JVET-T_Notes_dH.docx

MEETING NOTES

JVET-T0102 Crosscheck of JVET-T0089:AHG12: Slice based Rice parameter selection for transform skip residual coding [A. Browne (Sony)] [late]

CITATION

A. Browne, "Crosscheck of JVET-T0089:AHG12: Slice based Rice parameter selection for transform skip residual coding", JVET-T0102, 20th Meeting: by teleconference, October 2020.

REFERENCES

1. [T. Ikai, A. Browne, X. Xiu, "AHG12: Preliminary common test conditions for high bitdepth video coding", JVET-T0047, 20th Meeting: by teleconference, October 2020.](#)
2. [T. Hashimoto, T. Ikai, "AHG12: Rice parameter derivation for high bit-depth coding", JVET-T0085, 20th Meeting: by teleconference, October 2020.](#)
3. [H.-J. Jhu, X. Xiu, Y.-W. Chen, T.-C. Ma, C.-W. Kuo, X. Wang, "AHG12: Slice based Rice parameter selection for transform skip residual coding", JVET-T0089, 20th Meeting: by teleconference, October 2020.](#)