

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

Document: JVET-M0842-v1

MPEG: m46460

13th Meeting: Marrakech, January 2019

Title: Crosscheck of JVET-M0468 (Non-CE: Hadamard transform domain filter)

Status: Input document to JVET

Purpose: Proposal

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Source: LGE

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Abstract

This document reports the cross check results of “Non-CE: Hadamard transform domain filter (JVET-M0468)”, which is about post-reconstruction filter based on Hadamard transform. It was tested under 3 different test conditions: minimum filtered block size is 8x4 and 4x8, minimum filtered block size is 8x8 and when filter is applied to inter blocks only. The simulation was carried out under CTC. The results provided by the proponent were verified.

Cross-check Results

The simulation was carried out under the JVET common test condition [1]. The software was compiled with GCC version 4.8 and the AVX2 SIMD instructions. Huawei provided the source code of their proposal and results. The results are the same with those provided by the proponent.

Test 1 (Minimum block size of filter applied is 4x8 and 8x4):

Test 2 (Minimum block size of filter applied is 8x8):

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LINKS

CARD

JVET-M0842

<http://vexpertise.stbit.ru/documents/JVET-M0842>

JVET Search

Mehdi Salehifar (m45460)

Crosscheck of JVET-M0468 (Non-CE: Hadamard transform domain filter)

Authors:

ABSTRACT

MEETING NOTES

SOURCE

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https://jvet-experts.org/doc_end_user/current_document.php?id=5673

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Document Information

Submitted by: Jorma Paavola Olli

Title: Crosscheck of JVET-M0468 (Non-CE: Hadamard transform domain filter)

Authors: V. Sengul

Document: JVET-M0842 updated document

Associated Resources

Comments

ARCHIVE

archive v1

https://jvet-experts.org/doc_end_user/documents/13_Marrakech/wg11/JVET-M0842-v1.zip

XLS

CrossCheck_VTM-3.0-vs_VTM-3.0_HTDF_Test1.XLSM

XLS

CrossCheck_VTM-3.0-vs_VTM-3.0_HTDF_Test2.XLSM

XLS

CrossCheck_VTM-3.0-vs_VTM-3.0_HTDF_Test3.XLSM

DOC

JVET-M0842-v1.docx

MEETING NOTES

external meeting notes

https://www.itu.int/wftp3/av-arch/jvet-site/2019_01_M_Marrakech/JVET-M_Notes_dH.docx

Joint Video Experts Team (JVET) of ITU-T SG21 WP3/21 and ISO/IEC JTC 1/SC 29

13th Meeting: Marrakech, January 2019

Document: JVET-M0842

Title: Meeting Report of the 41st Meeting of the Joint Video Experts Team

Status: Report document from the chair of JVET

Purpose: Report

1 Summary

MEETING NOTES

[JVET-M0842](#) Crosscheck of JVET-M0468 (Non-CE: Hadamard transform domain filter) [M. Salehifar (LGE)] [late]

CITATION

M. Salehifar, "Crosscheck of JVET-M0468 (Non-CE: Hadamard transform domain filter)", JVET-M0842, 13th Meeting: Marrakech, January 2019.

REFERENCES

1. [F. Bossen, J. Boyce, X. Li, V. Seregin, K. Sühring, "JVET common test conditions and software reference configurations for SDR video", JVET-K1010, 11th Meeting: Ljubljana, July 2018.](#)
2. [S. Ikonin, V. Stepin, J. Chen, "Non-CE: Hadamard transform domain filter", JVET-M0468, 13th Meeting: Marrakech, January 2019.](#)