

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

11th Meeting: Ljubljana, July 2018

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Title: CE2-related: Bugfix for deblocking at maximum transform block boundaries

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Purpose: Proposal

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Source: MediaTek

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Abstract

In this contribution, a bugfix is proposed for deblocking at transform block (TB) boundaries. In VTM-1.0 and BMS-1.0, each coding blocks (CB) larger than maximum TB is inferred to be further partitioned into multiple TBs by tiling with the maximum TBs, while each CB smaller than or equal to maximum TB has only one TB. However, deblocking is only performed at CB boundaries and always skipped at maximum TB boundaries that do not coincide with any CB boundaries. It is proposed to apply deblocking to maximum TB boundaries that do not coincide with any CB boundaries.

Introduction

Figure 1 shows an example. Blocky artifacts are visible at maximum TB boundaries that do not coincide with any CB boundaries, where in this case the maximum TB is 64x64.

Figure 1. The 3rd decoded picture of FoodMarket4 sequence, BMS-1.0-RA, QP=37

Proposed method

Built from JVET-K0237-v2-clean.docx

LINKS

CARD

JVET-K0237

<http://vexpertise.stbit.ru/documents/JVET-K0237>

JVET Search

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CE2-related: Bugfix for deblocking at maximum transform block boundaries

Authors:

ABSTRACT

MEETING NOTES



SOURCE

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Document Information

Submitted by: Jorma-Pekker Ojan

Title: CE2-related: bugfix for deblocking at maximum transform block boundaries

Authors: V. Sengul

Document: JVET-K0237 updated document

Associated Resources

Comments



ARCHIVE

archive v3

https://jvet-experts.org/doc_end_user/documents/11_Ljubljana/wg11/JVET-K0237-v3.zip

DOC JVET-K0237-v1.docx

DOC JVET-K0237-v2-clean.docx

DOC JVET-K0237-v2.docx

PDF JVET-K0237_Presentation.pdf

XLS JVET-K0237_Table1.xlsm

XLS JVET-K0237_Table1_RevisedRunTime.xlsm



MEETING NOTES

external meeting notes

http://vexpertise.stbit.ru/meeting-notes/source/meeting_11_k

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

11th Meeting: Ljubljana, July 2018

Document: JVET-K0237

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-K0237](#) CE2-related: Bugfix for deblocking at maximum transform block boundaries [C.-M. Tsai, C.-W. Hsu, Y.-W. Huang, S.-M. Lei (MediaTek)]

In this contribution, a bugfix is proposed for deblocking at transform block (TB) boundaries. In VTM-1.0 and BMS-1.0, each coding blocks (CB) larger than maximum TB is inferred to be further partitioned into multiple TBs by tiling with the maximum TBs, while each CB smaller than or equal to maximum TB has only one TB. However, deblocking is only performed at CB boundaries and always skipped at maximum TB boundaries that do not coincide with any CB boundaries. It is proposed to apply deblocking to maximum TB boundaries that do not coincide with any CB boundaries.

Decision (BF): This bugfix was adopted into the VTM (see notes under CE2)

CITATION

C.-M. Tsai, C.-W. Hsu, Y.-W. Huang, S.-M. Lei, "CE2-related: Bugfix for deblocking at maximum transform block boundaries", JVET-K0237, 11th Meeting: Ljubljana, July 2018.

REFERENCES

1. [J. Boyce, K. Suehring, X. Li, V. Seregin, "JVET common test conditions and software reference configurations", JVET-J1010, 10th Meeting: San Diego, April 2018.](#)