

**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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18th Meeting: Teleconference, April 2020

Title: Crosscheck of JVET-R0292 (Fixes for 4-tap interpolation filtering)

Status: Input document to JVET

Purpose: Proposal

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Source: HHI

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Abstract

Contribution JVET-R0292 proposes to modify the 4-tap interpolation filters that are used for both intra angular prediction and chroma subpel interpolation filtering. The software provided by the proponents has been verified to match the text provided by the proponents. Coding efficiency results have also been confirmed. Additionally, the frequency responses of the proposed interpolation filters have been computed and plotted by the crosschecker. The resulting graphs match those provided in JVET-R0292.

Results

Results according to SDR common test conditions are provided below.

In the first experiment, the 4-tap interpolation filters are replaced for both intra angular prediction and chroma subpel interpolation filtering, which leads to the following results:

In the second experiment, the 4-tap interpolation filters are replaced only for intra angular prediction, which leads to the following results:

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LINKS

CARD

JVET-R0474

<http://vexpertise.stbit.ru/documents/JVET-R0474>

JVET Search

Martin Winken (m63963)

Crosscheck of JVET-R0292 (Fixes for 4-tap interpolation filtering)

Authors:

ABSTRACT

MEETING NOTES



SOURCE

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Document Information

Submitted by: Jiaqi Ren Chen

Title: Crosscheck of JVET-R0292 (Fixes for 4-tap interpolation filtering)

Authors: V. Sengul

Document: JVET-R0474 (final document)

Associated Resources

Comments



ARCHIVE

archive v1

https://jvet-experts.org/doc_end_user/documents/18_Alpbach/wg11/JVET-R0474-v1.zip

DOC

JVET-R0474-v1.docx

PDF

JVET-R0474_frequency_responses.pdf

XLS

JVET-R0474_intraOnly.xlsm

XLS

JVET-R0474_intra+inter.xlsm

XLS

JVET-R0474_intraOnly.xlsm



MEETING NOTES

external meeting notes

https://www.itu.int/wftp3/av-arch/jvet-site/2020_04_R_Alpbach/JVET-R_Notes_dH.docx

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

18th Meeting: Teleconference, April 2020

Document: JVET-R0474

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-R0474](#) Crosscheck of JVET-R0292 (Fixes for 4-tap interpolation filtering) M. Winken (HHI) [late]

CITATION

M. Winken, "Crosscheck of JVET-R0292 (Fixes for 4-tap interpolation filtering)", JVET-R0474, 18th Meeting: Teleconference, April 2020.

REFERENCES

- [K. Andersson, R. Yu, Z. Zhang, J. Ström, "Fixes for 4-tap interpolation filtering", JVET-R0292, 18th Meeting: Teleconference, April 2020.](#)