

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

Document: JVET-AI0086
MPEG: m68430

35th Meeting, Sapporo, JP, 12-19 July 2024

Title:	EE2-2.1/2.5 related: History-based merge candidate for merge-based intra prediction
Status:	Input document to JVET
Purpose:	Proposal
Author(s) or Contact(s):	yoshitaka kidani yo-kidani@kddi.com submitter (KDDI) H. Kato ha-katou@kddi.com (KDDI) K. Kawamura ki-kamura@kddi.com (KDDI)
Source:	KDDI

HEADER EXCERPT FROM SOURCE DOCUMENT

Abstract

This contribution proposes a history-based merge candidate for intra merge mode. The intra merge mode is tested as EE2-2.5 in this meeting, which constructs an intra merge candidate list by adding intra modes used in intra-coded neighboring blocks and select a merge candidate to predict the current block. To derive five intra merge candidates of the list, EE2-2.5a extends the number of checks for non-adjacent spatial merge candidates from 18 of ECM-13.0 to 87, whereas EE2-2.25c maintains the same number as ECM-13.0. To avoid the vast of checking non-adjacent spatial merge candidates in EE2-2.25a, it is proposed that history-based merge candidates are alternatively introduced in EE2-2.5c. A maximum of five history-based merge candidates are added to the history buffer and inserted to the intra merge candidate lists when the list is vacant after deriving non-adjacent spatial merge candidates.

On top of the ECM-13.0, simulation results {Y, U, V, EncT, DecT} for overall test sequences in CTC are reported below:

AI: {%, %, %, %, %};

RA: {%, %, %, %, %};

Introduction

Built from JVET-AI0086.docx

LINKS

CARD

JVET-AI0086

<http://vexpertise.stbit.ru/documents/JVET-AI0086>

JVET Search

yoshitaka kideriH. KatoK. Kawamura

EE2-2.1/2.5 related: History-based merge candidate for merge-based intra prediction

Authors:

ABSTRACT

MEETING NOTES

SOURCE

external source

https://jvet-experts.org/doc_end_user/current_document.php?id=14328

JVET

User

Preview document JVET-AI0086

Document Information

Submitted byJens-Rainer Ohm

TitleEE2-2.1/2.5 related: History-based merge candidate for merge-based intra

AuthorsV. Sengul

DocumentJVET-AI0086
original document

Comments

ARCHIVE

archive

https://jvet-experts.org/doc_end_user/documents/35_Sapporo/wg11/JVET-AI0086-v4.zip

XLS

EE2-Test2.1_plus_history.xlsm

XLS

EE2-Test2.5c_plus_history.xlsm

DOC

JVET-AI0086-v2.docx

DOC

JVET-AI0086-v3.docx

DOC

JVET-AI0086-v3_clean.docx

DOC

JVET-AI0086.docx

PDF

JVET-AI0086.pdf

XLS

Supplemental_EE2-Test2.1.xlsm

CITATION

Y. Kidani, H. Kato, K. Kawamura, "EE2-2.1/2.5 related: History-based merge candidate for merge-based intra prediction", JVET-AI0086, 35th Meeting: Sapporo, JP, July 2024.