

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

Document: JVET-L0222-v4

MPEG: m44242

12th Meeting: Macao, October 2018

Title: CE3 6.6.1: A simple 6-MPM list construction with truncated binary coding for non-MPM signalling

Status: Input document to JVET

Purpose: Proposal

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Abstract

This contribution proposes a 6 most probable modes (MPM) based intra mode coding method. The MPM list is generated based on the left and top neighboring modes. The truncated binary coding is used to signal the remaining 61 non-MPM modes. It is reported that under All Intra configuration this proposal can achieve $-0.32\%/-0.26\%/-0.24\%$ Y/U/V BD-rate for VTM2.0.

Introduction

In VTM2.0.1, for luma intra mode coding, a list of 3 MPMs is generated from above (A) and left (L) neighboring modes. Figure 1 shows the locations of the neighboring modes used in VTM2.0.1.

Figure 1: Neighboring modes for MPM generation in VTM2.0

In VTM2.0.1, after extracting the left neighboring mode (leftIntraDir) and above neighboring mode (aboveIntraDir), the MPM list (mpm[]) is constructed as follows:

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ABSTRACT

MEETING NOTES

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Preview document JVET-L0222

Document Information

Submitted by

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Title

CE3 6.6.1: A simple 6-MPM list construction with truncated binary coding

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Document

JVET-L0222

Associated Resources

Comments

ARCHIVE

archive v4
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DOC

JVET-K1001-v5_L0222_Spec.docx

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MEETING NOTES

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

Document: JVET-L0222

12th Meeting: Macao, October 2018

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-L0222](#) CE3 6.6.1: A simple 6-MPM list construction with truncated binary coding for non-MPM signalling [A. M. Kotra, B. Wang, S. Esenlik, H. Gao, J. Chen (Huawei), M. G. Sarwer, C.-W. Hsu, Y.-W. Huang, S.-M. Lei (MediaTek), L. Li, J. Heo, J. Choi, S. Yoo, J. Lim (LGE), A. K. Ramasubramonian, G. Van der Auwera, M. Karczewicz (Qualcomm)]

CITATION

A. M. Kotra, B. Wang, S. Esenlik, H. Gao, J. Chen, M. G. Sarwer, C.-W. Hsu, Y.-W. Huang, S.-M. Lei, L. Li, J. Heo, J. Choi, S. Yoo, J. Lim, S. Kim, A. K. Ramasubramonian, G. Van der Auwera, M. Karczewicz, "CE3 6.6.1: A simple 6-MPM list construction with truncated binary coding for non-MPM signalling", JVET-L0222, 12th Meeting: Macao, October 2018.

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1. [B. Bross, J. Chen, S. Liu, "Versatile Video Coding \(Draft 2\)", JVET-K1001, 11th Meeting: Ljubljana, July 2018.](#)
2. [F. Bossen, J. Boyce, X. Li, V. Seregin, K. Sühling, "JVET common test conditions and software reference configurations for SDR video", JVET-K1010, 11th Meeting: Ljubljana, July 2018.](#)