

**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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Title: AHG12: Sign prediction parameter configuration for low-delay conditions

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Purpose: Proposal

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Abstract

In JVET-AD0105, the common test condition with a modification to the sign prediction parameter to AI and RA was adopted. In this contribution, the same configuration that the NumSignPred parameter in QP22 is set to four rather than eight is also applied for the low-delay conditions (LB and LP), thus it will be used in all conditions. Experimental results reportedly show that the proposed modification reduced the encoding time in QP22 on the low-delay conditions by 2%.

Introduction

In JVET-AD0105 (Aspect 1), a modification to the sign prediction parameter in the AI and RA conditions of the Common Test Conditions (CTC)[1] was adopted, and ECM-9.0 introduced a new option NumSignPredOverrideByQP to override NumSignPred only for specific QPs. This option is currently used only in AI and RA conditions and is set as follows:

NumSignPredOverrideByQP: 22 4

This configuration overrides the number of sign predictions in QP22 to four rather than eight. In this contribution, the authors report experimental results of applying this configuration to the LB and LP conditions.

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LINKS

CARD

JVET-AE0055

<http://vexpertise.stbit.ru/documents/JVET-AE0055>

JVET Search

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AHG12: Sign prediction parameter configuration for low-delay conditions

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ABSTRACT

MEETING NOTES

SOURCE

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Document Information

Submitted by: Jorma Paavola Oksa

Title: AHG12: Sign prediction parameter configuration for low-delay conditions

Authors: V. Sengul

Document: JVET-AE0055 (signed document)

Associated Resources

Comments

ARCHIVE

archive

https://jvet-experts.org/doc_end_user/documents/31_Geneva/wg11/JVET-AE0055-v2.zip

FILE encoder_lowdelay_ecm.cfg

FILE encoder_lowdelay_P_ecm.cfg

XLS JVET_AE0055.xlsm

DOC JVET-AE0055_v2.docx

XLS JVET_AE0055.xlsm

MEETING NOTES

external meeting notes

http://vexpertise.stbit.ru/meeting-notes/source/meeting_31_ae

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

31st Meeting: Geneva, CH, July 2023

Document: JVET-AE0055

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-AE0055](#) AHG12: Sign prediction parameter configuration for low-delay conditions [Y. Yasugi, T. Ikai (Sharp)]

In JVET-AD0105, the common test condition with a modification to the sign prediction parameter to AI and RA was adopted. In this contribution, the same configuration that the NumSignPred parameter in QP22 is set to four rather than eight is also applied for the low-delay conditions (LB and LP), thus it will be used in all conditions. Experimental results reportedly show that the proposed modification reduced the encoding time in QP22 on the low-delay conditions by 2%.

Very small variation (≤ 0.02), sometimes gain, sometimes loss per sequence.

The same setting was already used in AI and RA.

Decision (CTC): Adopt JVET-AE0055.

CITATION

Y. Yasugi, T. Ikai, "AHG12: Sign prediction parameter configuration for low-delay conditions", JVET-AE0055, 31st Meeting: Geneva, CH, July 2023.