

Intel® Stress Bitstreams and Encoder 2016 (Intel® SBE) – AVS2 Release Notes (Version 2.2.2)

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Overview

The **Intel® Stress Bitstreams and Encoder 2016 – AVS2** is designed to ensure decoder compliance with AVS2 format. Streams cover appropriate feature set and profile of AVS2 format.

The Intel® Stress Bitstreams and Encoder 2016 – AVS2 includes two types of streams: Syntax and Stress. Syntax streams are designed to test a certain subset of features. Stress streams include all the features covered by the bucket.

Compliant streams contain only allowed combinations of syntax elements and their levels to test decoder for unusual cases or boundary stress cases.

This document provides system requirements, installation instructions, issues and limitations, and legal information.

To learn more about this product, visit the product webpage on the following link:
<https://software.intel.com/en-us/intel-stress-bitstreams-and-encoder>

Changes History

Version 2.2.2

Reference picture management was updated in Stress Bitstreams to avoid overflow of decoded picture buffer

Version 2.2.1

Stress Bitstreams were updated for compatibility with AVS2 RD 14.0

Version 2.2

Initial version of Stress Bitstreams and Encoder for AVS2. Stress Bitstreams are fully compliant with AVS2 RD 12.0.1

Installation

- Extract files from archive to the target hard drive.

Package Contents

Note: <install-folder> - folder where **Intel® Stress Bitstreams and Encoder 2016 – AVS2** is installed.

<install-folder>\	Contains Intel® Stress Bitstreams and Encoder 2016 - AVS2 Release Notes (this file), End User License Agreement (EULA), spreadsheet with detailed description of every bitstream, history document for each bitstream, Getting started document, Using Branch and Syntax Coverage Static View document, Syntax Coverage Report and User Guide document.
<install-folder>\Branch and Syntax Coverage Static View\	Contains "Branch and Syntax Coverage Static View" report (basecov.html) for the decoder
<install-folder>\<profile>\streams	Contains compliance AVS2 bitstreams , their MD5 check sums and MD5 check sums for decoding results of each encoded file.

Known Limitations

1. Reference structure isn't fully randomized. Corresponding syntax elements might be uncovered. Only one sequential B-frame is allowed.
2. Only one sequence header per stream is allowed.
3. Bitstream extensions are not supported in this version.
4. Scene picture functionality isn't fully covered.
5. Multiple slices are incompatible with ALF and not fully compatible with SAO. ALF is turned off when there is more than one slice per picture.
6. Syntax elements regarding slice position are not fully covered, since they are not used in reference decoder.
7. Syntax elements regarding prediction unit type are not fully covered.

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