Intel® Stress Random Encoder for HEVC Release Notes

(Version 1.0)

Overview

The **Intel® Stress Random Encoder for HEVC** is light weighted encoder with no mode decision so it is as fast as decoder designed to test all possible features of decoder. Effective motion estimation and mode decision is not a part of video codec standard and not required to be tested in decoder side. So this is most time consumptive part is mostly omitted in Random Encoder in favor of speed and flexibility.

Features

The **Intel® Stress Random Encoder for HEVC** is highly configurable and flexible syntax (HEVC) encoder tool. In difference to general encoders it is not intended to achieve compression but create a valid compliant to specification stream.

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

The **Intel® Stress Random Encoder for HEVC** takes for input *YUV file* and *PAR file* describing testing settings: what features to utilize, which values are fixed and which are randomized. As output Random Encoder produces encoded bitstream and optionally can write *YUV file* with internal reconstruction data. This file is used to validate that Encoder wrote to compressed file exactly what it wanted and that bitstream is valid.

System Requirements

Hardware

- IA32, Intel® 64 Architecture processors.

Software

- Microsoft* Windows* 7, Microsoft Windows 8, Microsoft Windows 8.1, Microsoft Windows Server 2012 or Microsoft Windows Server 2012
- Ubuntu* 12.04 LTS for 64-bit architecture (currently 12.04.3) or SUSE* Linux* Enterprise Server 11 for 64-bit architecture

Package Contents

Note: `<install-folder>` - folder where **Intel® Stress Bitstreams 1.0** is installed.

`<install-folder>\Random Encoder for HEVC Main HT 5.0\`	Contains **Intel® Stress Random Encoder for HEVC** Release Notes (this file), End User License Agreement (EULA), Getting started document, User Guide, parfile example.
`<install-folder>\Random Encoder for HEVC Main HT 5.0\win32`	Contains **Intel® Stress Random Encoder for HEVC** for Windows* IA-32 architecture.
`<install-folder>\Random Encoder for HEVC Main HT 5.0\win64`	Contains **Intel® Stress Random Encoder for HEVC** for Windows* Intel® 64 architecture.
`<install-folder>\Random Encoder for HEVC Main HT 5.0\lin64`	Contains **Intel® Stress Random Encoder for HEVC** for Linux* for Intel® 64 architecture.

Installation

- Extract files from archive to the target hard drive.

Known Limitations

No limitations

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