

Title: JCT-VC AHG report: Best-effort decoding with reduced decoding complexity (AHG 21)

Status: Input Document to JCT-VC

Purpose: Ad-hoc group report

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Source: AHG 21

Abstract

This report summarizes the activities of Ad Hoc Group 21 on support for range extensions between the 14th and 15th JCT-VC meetings.

Mandates

The ad hoc group was mandated to:

- Identify use cases and key functional elements for application of reduced-complexity decoding processes for decoding of bitstreams encoded for HEVC and its extensions
- Analyse trade-offs for optimization of video quality in the application of reduced-complexity decoding processes
- Particularly study characteristics of design and optimization for decoding processes with reduced bit depth
- Consider and analyse the impact of inter-picture dependencies and cross-region spatial prediction dependencies in the application of reduced-complexity decoding processes
- Study potential approaches to describe/specify the provision of best-effort decoding capabilities in the HEVC text specification

Contributions

A contribution on the topic that summarises the previous work, provides some new data for a 12-bit process, and provides very high level specification text is provided in JCTVC-O0043 [?].

Recommendations

It is recommended to –

- Present the input document