

CE7: Results for Core Experiment 7.1 test a and b

JCTVC-W006 I



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Context

- CE7 (NI5800) investigation about the whole processing chain associated to the HLG technology
- Two groups of experiments envisaged:
 - 7.1 Generation of HLG-coded content with fixed value for the system gamma (1.6)
 - 7.1a Processing identical to m36249
 - 7.1b Removal of system gamma on per component basis
 - 7.2 Generation of HLG-coded content with variable value for the system gamma
- Results on subgroup 7.1 test a and b

Status

- Software for conversion to and from YCbCr 4:2:0 format:
 - 7.1a: Modified version of the HDRTools software uploaded on the MPEG repository
 - 7.1b: Modified version of the HDRTools software distributed on CE7 reflector
- Configuration files and parameters to drive both HDRTools softwares circulated on CE7 reflector
- BBC distributed the following data:
 - QP values to match bitrates as per CE1
 - MD5 sums for input YCbCr 4:2:0 files, compressed bitstreams, decoded YCbCr 4:2:0, aggregated EXR files associated with decoded YCbCr 4:2:0 files
 - Metric values associated with all sequences

Setup for compression

- HM 16.7 used for all experiments
 - RExt__HIGH_BIT_DEPTH_SUPPORT left to zero (results available also when this macro is set to one)
 - Configuration according to W15793
- transfer_characteristics in the VUI set to 14 (BT.2020 OETF) for backward compatibility