

AhG report & CE2 report on SVC Interlaced coding

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Outline

- **AhG activities**
- **Software issue**
- **CE2 report**
- **Results**

AhG activity

- **Software**
 - Enhanced interlaced software version containing all the tools of [JVT-S018]
 - stuffs related to field/frame encoder, random PAFF encoder
 - Integration of Interlaced tools in the current JSVM not achieved due to delay in the software integration process.
- **Core Experiment 2**

AhG activity

- **Contributions**

[JVT-T010] AhG Report on SVC interlaced coding (J. Vieron)

[JVT-T048] CE 2: Report on SVC interlaced coding (J. Vieron, V. Bottreau, E. Francois)

[JVT-T035] Interlayer Motion Vector prediction in interlace (Q. Xie, L. Xiong, J. Zhou, P. Zeng)

[JVT-T092] CE 2: Cross verification of Huawei proposal (J. Ridge)

[JVT-T037] An experimental results on CE2: on interlace coding (K. Lee)

CE2: On interlaced coding

- **Refinement of tests conditions**
 - 4 scenarios:
 - Configuration 1: BL CIF progressive to EL SD interlace
 - Configuration 2: BL (560x448) interlace to EL 4CIF progressive (SDi->720p)
 - Configuration 3: BL 4CIF interlace to EL 4CIF progressive (1080i -> 1080p)
 - Configuration 4: BL (384x288) interlace to EL SD interlace (SDi ->1080i)
 - For each scenario: BL-> 3 bitrates, EL -> 4 QPs
 - PSNR and Bjontegaard [VCEG-M33]

CE2: Reference solution results

Exhaustive results are provided according to the test conditions versus AVC simulcast (see [JVT-T048])

[JVT-T048r1.xls](#)

Conclusion

- **Results versus AVC simulcast:** average measured rate decrease is up to 20.93 %, average PSNR gain is up to 1.6 dB
- **Improvements:**
 - PAFF performances to be improved
 - mix intra/inter coding for Field macroblocks pair (S037)

➡ **We recommend to continue studying SVC Interlaced coding**