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| **Joint Collaborative Team on 3D Video Coding Extension Development**  **of ITU-T SG 16 WP 3 and ISO/IEC JTC 1/SC 29/WG 11**  3rd Meeting: Geneva, CH, 17-23 Jan. 2013 | Document: JCT3V-C0204 |

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| *Title:* | **3D-CE2.h related: Cross check of JCT3V-C0097 Results on disparity vector derivation by Samsung** | | |
| *Status:* | Input Document | | |
| *Purpose:* | Report | | |
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# Abstract

This document reports the cross-check results of Samsung proposal JCT3V-C0097, “3D-CE2.h: Results of disparity vector derivation”, as compared HTM 5.0.1 [1]. Cross-checking is performed for “Method 1”, “Method 2”, and “Method 1 + Method 2” shown in JCT3V-C0097. We confirm that the PSNR and bitrate results are the same as those provided by the proponents, and encoding/decoding measurement time might be different due to the different platforms.

# Examination of Software and Working Draft Text

The coding performance of the proposed method is examined in this evaluation.

It is confirmed by the software that the implementations are aligned with the proposal and the proposed working draft text provided by the proponent. The PSNR and bit-rates are the same, and the execution time in decoding/encoding might be different probably because of the different platforms in experiments.

# Experimental results

Simulation results of the proposal (Method 1, Method 2, and Method 1 + Method 2) are respectively shown in Table 1, Table 2, and Table 3. The implementation was based on HTM5.0.1, and simulations are done under common test conditions.

Table 1.Simulation result of the Method 1  
(Anchor: 3DV-HTM v5.0.1, Tested: Checking order change of spatial and temporal neighboring blocks)



Table 2.Simulation result of the Method 2  
(Anchor: 3DV-HTM v5.0.1, Tested: Removal of “DVMCP”)



Table 3.Simulation result of the Method 1+Method 2  
(Anchor: 3DV-HTM v5.0.1, Tested: Combined manner of Method 1 and Method 2)



# References

1. G. Tech, K. Wegner, Y. Chen, S. Yea, “3D-HEVC Test Model 2”, JCT3V-B1005, Oct. 2012.