

# 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 Document: JCT3V-C0109

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Title: 3D-CE6.h: Cross check on simplification of depth modeling mode 3 (JCT3V-C0044)

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Purpose: Cross Check

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#### **Abstract**

This cross check report verifies the results provided by the proponent. The tested method is based on JCT3V-B0064. In DMM mode 3, the wedgelet partition is predicted from the depth block rather than the collocated texture luma block (CTLB).

#### 1 Simulation Results

The method was tested on HTM-5.0.1. Table 1 and Table 2 show the under CTC and all-intra configuration, respectively.

Table 1. Results under CTC

	video 0	video	video 2	video only	synthesized only	coded & synthesized	enc time	dec time	ren time
	U	1		Offic	Offity	Synthesized	enc ume	dec time	ren time
Balloons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	99.3%	99.3%	91.6%
Kendo	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	99.6%	100.4%	70.0%
Newspapercc	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	99.4%	99.4%	87.2%
GhostTownFly	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	99.2%	98.6%	99.0%
PoznanHall2	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	99.6%	99.4%	100.0%
PoznanStreet	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	99.6%	99.1%	104.3%
UndoDancer	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	99.4%	98.8%	102.5%
1024x768	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	99.4%	99.7%	82.4%
1920x1088	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	99.4%	99.0%	101.4%
average	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	99.4%	99.3%	92.8%

Page: 1 Date Saved: 2013-01-18

Table 2. Results under all-intra configuration

	video 0	video 1	video 2	video only	synthesized only	coded & synthesized	enc time	dec time	ren time
Balloons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	99.8%	98.5%	124.9%
Kendo	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	99.6%	98.8%	86.4%
Newspapercc	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.2%	98.2%	122.7%
GhostTownFly	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	100.4%	98.1%	104.7%
PoznanHall2	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	99.7%	98.7%	103.6%
PoznanStreet	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.6%	98.3%	107.9%
UndoDancer	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	99.9%	98.3%	105.5%
1024x768	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	99.9%	98.5%	109.8%
1920x1088	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.2%	98.3%	105.4%
average	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	98.4%	107.3%

### 2 Conclusion

The obtained results matched the results provided by the proponent. The algorithm description was confirmed in the software as well.

## 3 Acknowledgment

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Page: 2 Date Saved: 2013-01-18