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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**  1st Meeting: Stockholm, SE, 16–20 July 2012 | Document: JCT2-A0062 |

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| *Title:* | **3D-CE1.a : Cross check on synthesis with fractional disparity of Zhejiang Univ. (JCT2-A0056)** | | |
| *Status:* | Input Document to JCT 3D | | |
| *Purpose:* | Report | | |
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| *Source:* | Samsung Electronics Co., Ltd. | | |

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# Introduction

The experimental result for Zhejiang’s View Synthesis Prediction (VSP) is reported. It shows -0.33 % (decoded view) and -0.28% (rendered view) in BD-rate compared to 3DV-ATM 0.4.

# Test results

## Testing environment

Testing environment is described in below.

• Operating System

MS-Windows 7 [64 bit]

• Compiler

MS-Visual Studio 2010 Professional [64 bit]

Table 1. Test results for Zhejiang

|  |  |  |
| --- | --- | --- |
| Sequences | BD-rate with PSNR of  decoded views over  texture + depth bit rate | BD-rate with PSNR of  synthesized views over  texture + depth bit rate |
| Poznan Hall2 | -0.47 | -0.50 |
| Poznan Street | -0.02 | 0.03 |
| Undo Dancer | -0.93 | -0.70 |
| GT Fly | 0.00 | 0.03 |
| Kendo | -0.29 | -0.30 |
| Balloons | -0.35 | -0.32 |
| Newspaper | -0.27 | -0.23 |
| Average | -0.33 | -0.28 |
| Encoding Time (%) | 100.0% | |
| Decoding Time (%) | 100.0% | |

# Conclusion

The BD-rate (and PSNR) results obtained from the cross-verification match those provided to us by Zhejiang University.