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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-A0116 |

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| *Title:* | 3D-CE8.h Crosscheck of results on view synthesis optimization | | |
| *Status:* | Input document | | |
| *Purpose:* | Report | | |
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| *Source:* | LG Electronics | | |

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# Abstract

Cross-check results of results on view synthesis optimization for configuration A of JCT2-0033 are reported. Performance evaluation results reported by the proponent were verified.

# Coding experiments

Tests were based on the common test conditions and done on a cluster system with Linux OS Test results are summarized in Table 1. Because of the different computing system, the complexity might be little bit different.

Table 1 Summary results

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 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% | -2.2% | -1.9% | 90.0% | 102.4% | 101.2% |
| Kendo | 0.0% | 0.0% | 0.0% | 0.0% | -1.5% | -1.5% | 89.6% | 104.3% | 101.5% |
| Newspapercc | 0.0% | 0.0% | 0.0% | 0.0% | -4.6% | -3.8% | 87.6% | 106.9% | 101.1% |
| GhostTownFly | 0.0% | 0.0% | 0.0% | 0.0% | -2.9% | -2.3% | 89.6% | 99.2% | 102.7% |
| PoznanHall2 | 0.0% | 0.0% | 0.0% | 0.0% | -1.6% | -1.6% | 90.4% | 102.6% | 103.4% |
| PoznanStreet | 0.0% | 0.0% | 0.0% | 0.0% | -1.5% | -1.4% | 88.0% | 104.1% | 103.5% |
| UndoDancer | 0.0% | 0.0% | 0.0% | 0.0% | -4.3% | -3.1% | 89.4% | 102.8% | 101.7% |
| 1024x768 | 0.0% | 0.0% | 0.0% | 0.0% | -2.7% | -2.4% | 89.1% | 104.5% | 101.3% |
| 1920x1088 | 0.0% | 0.0% | 0.0% | 0.0% | -2.6% | -2.1% | 89.4% | 102.1% | 102.8% |
| **average** | **0.0%** | **0.0%** | **0.0%** | **0.0%** | **-2.7%** | **-2.2%** | **89.2%** | **103.2%** | **102.2%** |

# Conclusion

The cross check results on view synthesis optimization were matched to those provided by the proponent.