|  |  |
| --- | --- |
| **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-A0067 |

|  |  |  |  |
| --- | --- | --- | --- |
| *Title:* | **3D-CE5.a Cross check on DMVP simplification of Nokia** | | |
| *Status:* | Input document | | |
| *Purpose:* | Report | | |
| *Author(s) or Contact(s):* | Kwan-Jung Oh,  Jin Young Lee,  Jaejoon Lee,  Du-Sik Park | Email: | kwanjung.oh@samsung.com  jinyoung79.lee@samsung.com  jaejoon1.lee@samsung.com  dusikpark@samsung.com |
| *Source:* | Samsung Electronics Co., Ltd | | |

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Abstract

Cross check results on DMVP simplification by Nokia 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 clustered system with Linux OS and GCC 4.1.2 compiler. Test results are summarized in Table 1.

Table : coding results for DMVP simplification

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Total (Coded PSNR) | | Total (Synthesized PSNR) | | Complexity estimate (ratio to anchor) | |
|  | dBR, % | dPSNR, dB | dBR, % | dPSNR, dB | Encoder Time, % | Decoder Time, % |
| PoznanHall2 | 0.89 | -0.03 | 0.96 | -0.03 | 98.68 | 96.97 |
| PoznanStreet | -0.06 | 0.00 | -0.01 | 0.00 | 99.01 | 98.52 |
| UndoDancer | -0.07 | 0.00 | 0.07 | 0.00 | 99.91 | 94.58 |
| GhostTownFly | -0.18 | 0.01 | -0.12 | 0.00 | 98.69 | 95.84 |
| Kendo | -0.26 | 0.01 | -0.13 | 0.01 | 99.09 | 94.45 |
| Balloons | 0.05 | 0.00 | 0.17 | -0.01 | 99.54 | 94.85 |
| Newspaper | -0.07 | 0.00 | -0.06 | 0.00 | 99.09 | 96.71 |
| Average | 0.04 | 0.00 | 0.13 | 0.00 | 99.15 | 95.99 |

# Conclusion

The cross check results on DMVP simplification by Nokia were matched to those provided by the proponent.