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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**  5th Meeting: Vienna, AT, 27 July – 2 Aug. 2013 | Document: JCT3V- E0199 |

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| *Title:* | **CE 6.h: Crosscheck on CE results on removal of division operation for SDC (JCT3V-E0222)** | | |
| *Status:* | Input Document | | |
| *Purpose:* | Proposal | | |
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| *Source:* | LG Electronics | | |

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# Abstract

This contribution reports a cross-check of JCT3V-E0222. Experiment results perfectly match with that provided in JCT3V-E0222.

# Results

Results for both CTC and AI are tested.

Table 1: performance comparison with HTM-7.0r1 (CTC)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | video 0 | video 1 | video 2 | video PSNR / video bitrate | video PSNR / total bitrate | synth PSNR / total bitrate | enc time | dec time |
| Balloons | 0.00% | -0.05% | -0.05% | -0.03% | -0.04% | -0.03% | 76.1% | 101.6% |
| Kendo | 0.00% | 0.11% | -0.12% | 0.00% | 0.04% | 0.01% | 107.3% | 101.9% |
| Newspaper\_CC | 0.00% | 0.10% | 0.05% | 0.02% | 0.01% | 0.07% | 74.9% | 102.3% |
| GT\_Fly | 0.00% | 0.10% | -0.07% | 0.00% | 0.00% | -0.06% | 102.5% | 101.5% |
| Poznan\_Hall2 | 0.00% | 0.01% | 0.37% | 0.06% | 0.04% | 0.00% | 80.0% | 101.5% |
| Poznan\_Street | 0.00% | -0.11% | 0.04% | -0.03% | -0.01% | 0.00% | 84.2% | 102.1% |
| Undo\_Dancer | 0.00% | -0.07% | 0.07% | -0.01% | -0.03% | -0.03% | 103.4% | 101.6% |
| 1024x768 | 0.00% | 0.06% | -0.04% | 0.00% | 0.01% | 0.02% | 86.1% | 101.9% |
| 1920x1088 | 0.00% | -0.02% | 0.10% | 0.00% | 0.00% | -0.02% | 92.5% | 101.7% |
| **average** | **0.00%** | **0.01%** | **0.04%** | **0.00%** | **0.00%** | **-0.01%** | **89.8%** | **101.8%** |

Table 2: performance comparison with HTM-7.0r1 (AI)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | video 0 | video 1 | video 2 | video PSNR / video bitrate | video PSNR / total bitrate | synth PSNR / total bitrate | enc time | dec time |
| Balloons | 0.00% | 0.00% | 0.00% | 0.00% | 0.01% | 0.01% | 99.5% | 105.4% |
| Kendo | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | -0.06% | 99.6% | 103.1% |
| Newspaper\_CC | 0.00% | 0.00% | 0.00% | 0.00% | -0.01% | -0.02% | 99.7% | 101.7% |
| GT\_Fly | 0.00% | 0.00% | 0.00% | 0.00% | 0.03% | 0.04% | 102.7% | 100.3% |
| Poznan\_Hall2 | 0.00% | 0.00% | 0.00% | 0.00% | -0.03% | -0.07% | 98.2% | 101.7% |
| Poznan\_Street | 0.00% | 0.00% | 0.00% | 0.00% | 0.02% | 0.07% | 102.1% | 100.1% |
| Undo\_Dancer | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.01% | 100.4% | 100.2% |
| 1024x768 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | -0.02% | 99.6% | 103.4% |
| 1920x1088 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.01% | 100.8% | 100.6% |
| **average** | **0.00%** | **0.00%** | **0.00%** | **0.00%** | **0.00%** | **0.00%** | **100.3%** | **101.8%** |

# Conclusion

The result perfectly matches with JCT3V-E0222.