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| *Title:* | **CE6.b4: Cross-check results (JCTVC-F026)** | | |
| *Status:* | Input Document to JCT-VC | | |
| *Purpose:* | Information | | |
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# Abstract

This document reports the results of the evaluation of Core Experiment 6.b4 ([F026]). In particular, the test evaluated the performance of the interaction between SDIP and MDDT. The results confirms the BD-rates of the proponents. The running times are very close to the proponents’ and within the range of variability associated with the cluster used for the experiments. The proponents’ code has also been analysed and found to match the proponents’ stated aim.

Results

The tables below summarise the results for CE6.b4 cross-checks. Two test configurations were evaluated, intra high efficiency and low complexity ([E700]). The complete set of results can be found in the associated Excel spreadsheet.

|  |  |  |  |
| --- | --- | --- | --- |
|  | All Intra HE | | |
| Y | U | V |
| Class A | 0.56 | 0.06 | 0.05 |
| Class B | 0.52 | 0.13 | 0.02 |
| Class C | 0.55 | 0.29 | 0.20 |
| Class D | 0.58 | 0.36 | 0.33 |
| Class E | 0.78 | -0.02 | 0.21 |
| **Overall** | **0.59** | **0.17** | **0.15** |
| Enc Time[%] | 96% | | |
| Dec Time[%] | 96% | | |

Table - CE6.b4 - Intra High Efficiency Results

|  |  |  |  |
| --- | --- | --- | --- |
|  | All Intra LC | | |
| Y | U | V |
| Class A | 0.49 | 0.26 | 0.28 |
| Class B | 0.54 | 0.30 | 0.22 |
| Class C | 0.80 | 0.38 | 0.30 |
| Class D | 0.86 | 0.38 | 0.39 |
| Class E | 0.85 | 0.01 | 0.18 |
| **Overall** | **0.69** | **0.28** | **0.28** |
| Enc Time[%] | 96% | | |
| Dec Time[%] | 94% | | |

Table - CE6.b4 - Intra Low Complexity Results

# Conclusions

This document reports the evaluation of the interaction between SDIP and MDDT, in particular test CE6.b4 [F026]. The results of the evaluation match the proponents’, the running times are very close to the proponents’ and within the range of variability.typical of the cluster used for the experiments. The proponents’ code has also been analysed and has been deemed to match the proponents’ stated aim.

# References

[E700]Frank Bossen, “Common test conditions and software reference configurations”, JCTVC-E700, Joint Collaborative Team on Video Coding (JCT-VC) of ITU-T VCEG and ISO/IEC MPEG, Geneva, CH, March. 2011.

[F026] Ali Tabatabai, Madhukar Budagavi, Keiichi Chono, Joshi Rajan, Andrew Segall, Haoping Yu, “CE6: Intra Prediction Improvements Summary Report”, JCTVC-F026, Joint Collaborative Team on Video Coding (JCT-VC) of ITU-T VCEG and ISO/IEC MPEG, Torino, IT, July. 2011.