|  |  |
| --- | --- |
| **Joint Collaborative Team on Video Coding (JCT-VC)**  **of ITU-T SG16 WP3 and ISO/IEC JTC1/SC29/WG11**  7th Meeting: Geneva, 21-30 November, 2011 | Document: JCTVC-G996 |

|  |  |  |  |
| --- | --- | --- | --- |
| *Title:* | **Cross Check of Sharp’s JCTVC-G705** | | |
| *Status:* | Input Document to JCT-VC | | |
| *Purpose:* | Information | | |
| *Author(s) or Contact(s):* | Geert Van der Auwera  5775 Morehouse Dr San Diego, CA 92121 USA | Email: | geertv@qualcomm.com |
| *Source:* | Qualcomm Inc. | | |

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

# Abstract

This cross check document verified the results from proposal JCTVC-G705 on CABAC simplification for explicit signaling mode of AMVP, which proposes to remove context models for the motion vector prediction index and use CABAC bypass mode instead. The BD-rates match those reported in the proposal (excluding class F).

# Results

The BD-rate results are obtained following the common test conditions (JCTVC-F900) for the high efficiency case. The encoding times are measured in an heterogeneous computing environment and are therefore variable and approximate.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Random Access HE** | | | **Random Access LC** | | |
|  | Y | U | V | Y | U | V |
| Class A | 0.0% | 0.0% | 0.0% | #VALUE! | #VALUE! | #VALUE! |
| Class B | 0.0% | 0.0% | 0.1% | #VALUE! | #VALUE! | #VALUE! |
| Class C | 0.0% | 0.0% | 0.1% | #VALUE! | #VALUE! | #VALUE! |
| Class D | 0.1% | 0.0% | -0.1% | #VALUE! | #VALUE! | #VALUE! |
| Class E |  |  |  |  |  |  |
| **Overall** | 0.0% | 0.0% | 0.0% | #VALUE! | #VALUE! | #VALUE! |
|  | 0.0% | 0.0% | 0.0% | #VALUE! | #VALUE! | #VALUE! |
| Enc Time[%] | 94% | | | #NUM! | | |
| Dec Time[%] | #NUM! | | | #NUM! | | |
|  |  |  |  |  |  |  |
|  | **Low delay B HE** | | | **Low delay B LC** | | |
|  | Y | U | V | Y | U | V |
| Class A |  |  |  |  |  |  |
| Class B | 0.0% | 0.0% | 0.0% | #VALUE! | #VALUE! | #VALUE! |
| Class C | 0.0% | 0.0% | 0.0% | #VALUE! | #VALUE! | #VALUE! |
| Class D | 0.0% | 0.5% | -0.1% | #VALUE! | #VALUE! | #VALUE! |
| Class E | 0.1% | 0.0% | 0.9% | #VALUE! | #VALUE! | #VALUE! |
| **Overall** | 0.0% | 0.1% | 0.1% | #VALUE! | #VALUE! | #VALUE! |
|  | 0.0% | 0.1% | 0.1% | #VALUE! | #VALUE! | #VALUE! |
| Enc Time[%] | 91% | | | #NUM! | | |
| Dec Time[%] | #NUM! | | | #NUM! | | |
|  |  |  |  |  |  |  |
|  | **Low delay P HE** | | | **Low delay P LC** | | |
|  | Y | U | V | Y | U | V |
| Class A |  |  |  |  |  |  |
| Class B | 0.0% | 0.1% | 0.2% | #VALUE! | #VALUE! | #VALUE! |
| Class C | 0.0% | 0.1% | 0.0% | #VALUE! | #VALUE! | #VALUE! |
| Class D | 0.0% | 0.2% | -0.5% | #VALUE! | #VALUE! | #VALUE! |
| Class E | 0.0% | 0.4% | 0.0% | #VALUE! | #VALUE! | #VALUE! |
| **Overall** | 0.0% | 0.2% | -0.1% | #VALUE! | #VALUE! | #VALUE! |
|  | 0.0% | 0.2% | -0.1% | #VALUE! | #VALUE! | #VALUE! |
| Enc Time[%] | 94% | | | #NUM! | | |
| Dec Time[%] | #NUM! | | | #NUM! | | |