

From: List, Peter <Peter.List@t-systems.com>
Sent: Thursday, October 10, 2002 5:30 PM
To: jvt-experts@mail.imtc.org
Subject: [jvt-experts] Errors in CAVLC descriptopn!?

Hi Karl and everyone else

while implementing the CAVLC I found two things in the description that do not match with the software or are unclear (Otherwise the desription is excellent: it IS POSSIBLE to implement straint forward with the JM as the only description)

9.1.6.1.1 says:

.....

When finding the block above and to the left for a block of Intra16x16 DC coefficients, the location of the block is assumed to be (0,0), i.e. the upper left corner of the macroblock.

what is done in the software: it is used block 10 of the block above and block 5 of the block to the left (numbers as in figure 9-1). This makes sense! So, I would say the description is wrong in this place.

Lev-VLC0 is not described in textform, but only as a shortend table. That's why one strange (implementation dependant) behaviour does not become clear:

The codes go as follows:

....

CodeNr	LevelCode
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-----	-----
-------	-------

.....	
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10	6
----	---

11	-6
----	----

12	7
----	---

13	-7
----	----

-----	here the VLC ends ans Esc starts
-------	----------------------------------

14	-8
----	----

15	8
----	---

16	-9
----	----

.....

The flip of the sign order between VLC and FLC is at least unexpected and should be mentioned in the doc. At the time it's just guessing what comes first, and obviously one would in a first try use the order of the VLC. Also, although maybe obvoius, it should be mentiond, that the xxxx in the FLC code is

$((|level|-8) < 1) + 1 - s$

or, as I would prefer

$((|level|-8) < 1) + s$

Karl, can you please check!

Regards

Peter

The use of the jvt-experts list is intended only for the video coding standardization work conducted by the Joint Video Team (JVT) of ISO/IEC JTC1/SC29/WG11 (MPEG) and ITU-T SG16 Q.6 (VCEG).

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