

From: Mathias Wien <wien@ient.rwth-aachen.de>
Sent: Wednesday, August 14, 2002 9:45 AM
To: karl lillevold; imoccaga@mhbs.isil.com; iole moccagatta
Cc: Detlev Marpe; JVT experts; Kourosh Soroushian; iole Moccagatta
Subject: [jvt-experts] Re: JVT ref. sw. 4.0c: two questions

Dear Karl, Iole,

> 1) ABT and CAVLC. In 4.0c the use of ABT effectively disables CAVLC
> completely. I am working on this, and ABT should only disable CAVLC
> and use UVLC for 8x8, 8x4, and 4x8 block sizes (Intra and/or Inter,
> depending on selected ABT mode). (...)

please let me clarify: CAVLC is not used for 4x4, 4x8, 8x4, and 8x8 luma, if the block is ABT coded. CAVLC is used for 4x4 luma in non-ABT blocks.

CAVLC is used for all chroma blocks, since ABT is not employed for chroma.

Mathias

On Tuesday 13 August 2002 22:56, karl lillevold wrote:

> Tuesday, August 13, 2002, 1:09:03 PM, you wrote:

> > Concerning the CAVLC, does 4.0c reflect the status of CA-VLC as
> > reported in the FCD ?

>

> Let me try to answer the CAVLC question. With a couple of exceptions,
> it does. I ran simulations for the standard test sequences and found
> the results to be as expected. I also tested B frames, slices, and all
> bitstream modes without finding any problems.

>

> There are many combinations of options, and since everything was so
> hectic, there are a couple of known problems.

>

> 1) ABT and CAVLC. In 4.0c the use of ABT effectively disables CAVLC
> completely. I am working on this, and ABT should only disable CAVLC
> and use UVLC for 8x8, 8x4, and 4x8 block sizes (Intra and/or Inter,
> depending on selected ABT mode). Then I ran into a problem, where it
> looks like there is a minor definition problem in the FCD : when
> neighboring blocks are ABT coded, it is not clearly defined how to
> find the number of coefficients for table selection in CAVLC. It
> should probably be the number of coefficients in whatever is the
> nearest block, divided by 2, or 4, depending on the size of the block.

>

> 2) Karsten found a problem with an illegal memory access for
> interlaced content decoding and CAVLC. I just fixed that and sent it
> back to him. Let me know if you would like the same fix.

>

> If any other problems with option combinations or mismatches with the
> FCD are found, please let me know as soon as possible.

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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