

From: Rickard Sjöberg (EAB) <Rickard.Sjoberg@era.ericsson.se>
Sent: Thursday, September 5, 2002 3:41 PM
To: 'List, Peter'; jvt-experts@mail.imtc.org
Subject: [jvt-experts] RE: Strange stuff in the JM

Regarding run-length coding of skipped macroblocks:

It seems that the sentence "If a picture or slice ends with one or more skipped macroblocks, they are represented by an additional mb_skip_run which counts the number of skipped macroblocks" has been removed during the editing work.

In the FCD, the slice syntax looks like this for the simplest IPPP video:

```
do {  
  mb_skip_run  
  MoreDataFlag = more_rbsp_data( ) // Check 1  
  if( MoreDataFlag )  
    macroblock_layer( )  
  MoreDataFlag = more_rbsp_data( ) // Check 2 } while( MoreDataFlag )
```

Without the sentence above it is not clear why Check 2 is present.

I agree that removing the above sentence and Check 2 make sense, although it would cost 1 bit occasionally.

In order to resolve this, we should do one of the following:

- 1) Remove Check 2 from the FCD slice syntax and reference software.
- 2) Keep the FCD slice syntax and reference software.
The omitted sentence should then be put back for clarity.

/

Regards,
Rickard

> -----Original Message-----

> From: List, Peter [mailto:Peter.List@t-systems.com]

> Sent: den 2 september 2002 16:02

> To: jvt-experts@mail.imtc.org; suehring@hhi.de

> Subject: [jvt-experts] Strange stuff in the JM

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>

> In the older versions of the CD the following paragraph existed:

> 8.5.1 Number of Skipped Macroblocks

> (mb_skip_run)

>

> If a picture or slice ends with one or more skipped macroblocks, they

> are represented by an additional mb_skip_run which counts the number
> of skipped macroblocks.
>
> This was a very odd rule. It ment, there might be a mb_skip_run, but
> when the mb_skip_run would be zero it will be ommitted. It SEEMS TO
> ME this rule is gone from the FCD.
> It is definitely not gone from the software though!
> It has become a little hard nowadays to really get whats going on in
> software and doc. So, can anybody verify and comment.
> If the above rule is still present somewere in the FCD I propose to
> remove it, because it causes unnecessary complexity in the decoder
> (more possibilities and more difficulties in checking whether next is
> a slice header or not)

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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