

From: Gary Sullivan <garysull@microsoft.com>
Sent: Saturday, September 14, 2002 10:37 AM
To: Sandy (Alexander) MacInnis; Luthra Ajay-MGI1164; Jvt-Experts (E-mail)
Subject: [jvt-experts] RE: Special position + MC memory analysis adhoc group

I guess item 4 of my previous message (evaluating JVT-D134) was HD-specific. And I think item 2 was too - I think the larger MV range was discussed only in the HD context. More remarks in-line in response to Sandy:

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

+> From: Sandy (Alexander) MacInnis [mailto:macinnis@broadcom.com]

+> Sent: Friday, September 13, 2002 9:11 PM

+> To: Gary Sullivan; Luthra Ajay-MGI1164; Jvt-Experts (E-mail)

+> Subject: Re: [jvt-experts] RE: Special position + MC memory analysis

+> adhoc group

+>

+>

+> At 06:54 PM 9/13/2002, Gary Sullivan wrote:

+> ...

+> >4) JVT-D134 (limit of number of MVs per two macroblocks) had lots of

+> >people listed as authors and lots of support at the last meeting but

+> >none of its proponents seems to be on the list of people who are

+> >going to participate in

+> these tests.

+> >Is anyone

+> >testing it?

+> >

+> >Best Regards,

+> >

+> >-Gary

+>

+> Unfortunately, the mandate of this AHG does NOT include confirming

+> the validity of the proposal in D134. I don't know why.

+>

+> It is part of another AHG on level constraints. Some companies,

+> including Broadcom, are trying to do experiments via that AHG.

It sounds like there's some need for coordination. JVT-D134 is a method for reducing memory access for motion compensation -- an issue that's part of the title of this ad hoc group. In fact JVT-D134 is explicitly mentioned in the charter of this AHG in section 10.1.11 of the meeting report.

I suppose the conditions needed for testing JVT-D134 are substantially different than those for some of the other reduced-memory-access motion compensation proposals, since the proposal is HD-specific. So I guess it only needs to be tested on HD material. But we ought to recognize that this is one of several proposals for reducing memory access in motion compensation and therefore has some logical relationship to the other proposals on that topic.

+> There

+> are some issues,
+> such as an expressed need to use the latest software, the need to
+> modify any chosen decoder software in order to do the experiments (it
+> is necessary to generate histograms of MV usage),

Are histograms being generated in addition to other measures such as PSNR, or as a substitute?

+> some opinions that we should use
+> interlaced HD material and also set the (new) software to do adaptive
+> field frame selection, the extremely long run time of the software in
+> such situations, etc..... but we are trying diligently to complete
+> the tests quickly and in a meaningful manner.
+>
+> We would certainly appreciate more volunteers to participate.
+>
+> This is a critical issue that could make the difference in preventing
+> a strong economic incentive for the creation of non-compliant
+> decoders, as explained in D134. It would be a very serious problem if
+> the standard were to be written in such a way as to encourage
+> non-compliant decoders, and currently it does have that problem.
+>
+> --Sandy
+>
+>
+>

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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