

From: imoccaga@lsil.com on behalf of iole moccagatta <imoccaga@lsil.com>
Sent: Tuesday, October 1, 2002 4:03 AM
To: Krishna Ratakonda
Cc: Sandy (Alexander) MacInnis; Kerofsky, Louis; 'Luthra Ajay-MGI1164'; 'Mathias Wien'; jvt_vlc_adhoc@yahoogroups.com; jvt-experts@mail.imtc.org
Subject: [jvt-experts] RE: [jvt_vlc_adhoc] CAVLC for ABT

Dear Krishna, Experts,

let me add my support to those of you who would like to have only one entropy coding tool in the Main profile.

>From what I have seen and tested so far, CABAC provides higher coding
>efficiency than CAVLC in the context of the applications addressed by
>the Main profile. This is, by itself, a good reason
to remove CAVLC. Please let me know if you have experienced the contrary.

Best Regards,

Iole

Krishna Ratakonda wrote:

> Ajay, Sandy and others,
>
> I would like to add my support to Ajay & Sandy ... I dont see any
> point in having CAVLC/UVLC/ABT-VLC in the main profile. As Sandy
> points out Main profile is already incompatible with the baseline
> profile.
> Most people seem to agree that CABAC is better at coding efficiency
> than CAVLC. If some one has valid concerns that necessitate
> inclusion of these VLC tools in the main profile, please voice them
> now.
>
> Best,
>
> Krishna
>
> #Krishna Ratakonda, Research Scientist, Multimedia Dept.
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> 914-945-1602
>
> "Sandy (Alexander) MacInnis" <macinnis@broadcom.com> on 09/30/2002
> 02:06:51 PM
>
> Please respond to "Sandy (Alexander) MacInnis" <macinnis@broadcom.com>
>

> To: "Kerofsky, Louis" <lkerofsky@sharplabs.com>, "Luthra Ajay-MGI1164"
 > <aluthra@motorola.com>, "Mathias Wien" <wien@ient.rwth-aachen.de>,
 > jvt_vlc_adhoc@yahoogroups.com
 > cc: jvt-experts@mail.imtc.org
 > Subject: [jvt-experts] RE: [jvt_vlc_adhoc] CAVLC for ABT
 >
 > Louie, Ajay, and everyone,
 >
 > Remember that main profile is already incompatible with baseline.
 > Baseline has tools that are not allowed in main, as was resolved in
 > July. So there is no compatibility advantage achieved by including CALVC in main.
 >
 > If a main profile decoder wants compatibility with baseline, the
 > answer is
 > simple: Implement baseline too.
 >
 > --Sandy
 >
 > At 10:42 AM 9/30/2002, Kerofsky, Louis wrote:
 > >Ajay,
 > >
 > >I understand your argument with the comment that we actually have
 > >three lossless coding tools, (CABAC, CAVLC, and ABT-VLC). You make a
 > >case for having only one lossless coding tool. I am suggesting as a
 > >step we reduce to two (CABAC and CAVLC). I assume the main reason
 > >for having CAVLC in
 > main
 > >is an effort to maintain compatibility with baseline. Perhaps an answer
 > is
 > >to marry ABT to CABAC requiring use of CABAC when using ABT.
 > >
 > >Thoughts?
 > >
 > >Louie
 > >
 > >-----Original Message-----
 > >From: Luthra Ajay-MGI1164 [mailto:aluthra@motorola.com]
 > >Sent: Monday, September 30, 2002 10:30 AM
 > >To: 'Kerofsky, Louis'; 'Mathias Wien'; jvt_vlc_adhoc@yahoogroups.com
 > >Cc: jvt-experts@mail.imtc.org
 > >Subject: RE: [jvt_vlc_adhoc] CAVLC for ABT
 > >
 > >Louie,
 > > Thanks for your email and work. If I understand it right CABAC is
 > >more than 10% better than CAVLC for ABT. In that case, I do not
 > >understand why
 > to
 > >have it for ABT. I have heard the design consistency argument but am
 > >not sure I agree with it. I do not see any benefit of trying to unify
 > >this one particular thing in ABT when many other things are
 > >different. Let us not make decoder any more complex than they have to
 > >be, specially if all that

> is
> > achieved is some (vague) theoretical design consistency.
> >
> > Pushing this argument further, why to have CAVLC in Main profile
> > at
> > all.
> > CABAC provides better gain and Main Profile decoders have to
> > implement it anyway. Why to put two tools (CAVLC and CABAC) to do the
> > same thing (lossless coding) in the same profile.
> >
> > Regards,
> > Ajay
> >
> > PS. As part of this discussion also happened on the JVT reflector, I
> > have sent the reply also to the general reflector.
> [...]
>
> ---
> 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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>
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> unsubscribe send a blank email to %%email.unsub%%

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=                                                         =
=                                                         =
=   "Spatium...ultima confinia.... Haec sunt itinera astranavis   =
=   Incepti. Huic missio quinque annorum: explorare mundos alienos novos, =
=   petere vitam novam novosque cultus, ire fortiter quo nemo iverit    =
=   ante."                                                         =
=                                                         =
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