

From: Nakagawa, Akira <anaka@flab.fujitsu.co.jp>
Sent: Thursday, October 10, 2002 12:36 PM
To: suehring@hhi.de; tian@cs.tut.fi
Cc: jvt-experts@mail.imtc.org
Subject: Re: [jvt-experts] RE: Correction of reference selection in I fields

Dear Dong Tian-san, Miska-san, and Karsten-san, and all

I found that the parity of fields should be also considered.
Bottom field in the "Intra" frame can use the first top field.
So it seem to me the following should solve the problem.
Could you please check it?

```
=====
if(mref==mref_fld)
{
//  max_ref = min (img->number-((mref==mref_fld)&&img->fld_type&&img->type==B_IMG), img->buf_cycle);
  max_ref = min (img->number-((mref==mref_fld)&&img->fld_type&&img->type==B_IMG),
    (2*img->nb_references + img->fld_type));
  adjust_ref = 0;
}
=====
```

Best Regards,
Akira Nakagawa

%% "Nakagawa, Akira" <anaka@flab.fujitsu.co.jp> %% [jvt-experts] RE: Correction of reference selection in I fields %%
Thu, 10 Oct 2002 19:07:31 +0900

> Dear Dong Tian-san, Miska-san, and Karsten-san, and all
>
> I agree with Karsten-san.
>
> > in mv-search.c and rdopt.c the maximum number of reference frames
> > (max_ref) is determined using different calculations for frame and field coding.
> > For the frame case img->nb_references is used, which is set
> > according to the setting of NumberOfFrameInSecondIGOP. The field
> > case restricts max_ref using img->buf_cycle, which is the number of
> > fields contained in the frame buffer. I think replacing
> > img->buf_cycle with
> > (2*img->nb_references) should fix the problem. Could you please
> > check this?
>
> Is your proposed change in rdopt.c in the following way?
> =====
> if(mref==mref_fld)
> {
> // max_ref = min (img->number-((mref==mref_fld)&&img->fld_type&&img->type==B_IMG), img->buf_cycle);

> max_ref = min (img->number-((mref==mref_fld)&&img->fld_type&&img->type==B_IMG), (2*img->nb_references));
> adjust_ref = 0;
> }
> =====
> I have to check it, but It seems to me this is the correct solution.
>
> Best Regards,
> Akira Nakagawa
>
> ---
> 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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>