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Sent: Thursday, October 10, 2002 12:08 PM
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Cc: anaka@flab.fujitsu.co.jp; garysull@microsoft.com; jvt-experts@mail.imtc.org; tian@cs.tut.fi
Subject: [jvt-experts] RE: Correction of reference selection in I fields

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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